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Part 1

General information

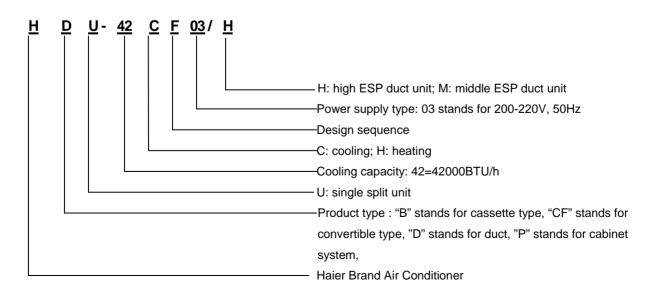
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1. Nomenclature

code	А	В			18	2		A	
	1	2			3, 4	5		6	
	air conditioner	product type)	produ	uct specification	voltage	voltage combination type		€
		cassette type	В	cooling capacity	the valid number more than thousand digital	110-115V/50-60Hz	1	single split unit or packaged unit	А
		convertible type	С	dehumidifi er	(litre or pint)the first two number	220-240V/50Hz	2	two by one	В
		duct type	D	air refresh capacity	the first two number	115-220V/50-60Hz	3	three by one	С
	ning A	ceiling concealed type	Е			220-240V/60Hz	4	four by one	D
		window type	F			110V/50-60Hz	6	free combination (MRV series)	F
code and meaning		cabinet type	Р			220V/50Hz	8	multi series	х
-		wall type	S			380-400V/50Hz	N	gas heat pump	G
						380-400V/60Hz	I		
						415V/50Hz	М		
		Outdoor Unit	U						

С	Е			R		A	
7	8			9		10	
appearance	pearance refrigerant		design series number		climate type		
		R22	Α	fixed frequency and little appliance	A-G	T1	Α
		R407C	В	AC inverter type	H-Q	ТЗ	В
		R123	С	DC inverter type	R-Z		
	heating and cooling	R134a	D			T1,suitable for at -15 cooling	С
		R410a	Е			(cooling, heat pump) or at -20 heating(heat pump)	
		R22	М				
	cooling only	R407C	N				
	and dehumifier	R123	0				
		R134a	Р				
		R410a	Q				
	3-pipe	R410A	U				





2. External appearance

	тат арреатапсе		Indoor					Model
	Cabinet type		Duct type		Convertible type	туре	4-way	Horse power
		HDU-18CF03 HDU-18HF03		HCFU-18CF03 HCFU-18HF03	COURT COURT	HBU-18CF03 HBU-18HF03		2HP
		HDU-28CF03		HCFU-28CF03		HBU-28CF03 HBU-28HF03		ЗНР
		HDU-28CF03 HDU-28HF03	(HCFU-28CF03 HCFU-28HF03		HBU-28CH03 HBU-28HH03		Ð
HPU-42CF03 HPU-42HF03 HPU-42CH03 HPU-42HI03		HDU-42CF03/H HDU-42HF03/H		HCFU-42CF03 HCFU-42HF03	_	HBU-42CF03 HBU-42HF03		£.
HPU-42CV03 HPU-42HV03 HPU-48HV03		HDU-42CH03/H HDU-42Cl03/H HDU-42HK03/H HDU-50HT03/H		НСFU-42СН03 НСFU-42НК03		HBU-42CH03 HBU-42Cl03 HBU-42Hl03		5HP
AP96NACAEA		AD96NAHAEA						10HP



Outdoor unit		Horse power Model
HBU-18CF03 HBU-18HF03 HCFU-18CF03 HCFU-18HF03 HDU-18CF03 HDU-18HF03		2HP
HBU-28CF03 HBU-28CH03 HBU-28HH03 HCFU-28CF03 HCFU-28HF03		31
HBU-28HF03 HDU-28CF03 HDU-28HF03		3НР
HBU-42CF03 HBU-42HF03 HBU-42CH03 HCFU-42CF03 HCFU-42CH03 HPU-42CF03 HCFU-42CH03 HPU-42CH03 HDU-42CF03/H HDU-42CH03/H	1	
HBU-42CI03 HBU-42HI03 HCFU-42HF03 HCFU-42HK03 HPU-42HF03 HPU-42CV03 HPU-42HV03 HPU-48HF03 HPU-42CH03 HDU-42CF03/H HDU-42CF03/H HPU-42HI03 HDU-42HF03/H HDU-42CI03/H HDU-42HK03/H HDU-50HT03/H	Hoose	5HP
AU96NATAEA		10HP



3. Operating temperature range

3.1 For HDU-50HT03/H (T3 climate)

Temp.		Mode	Rated	Maximum	Minimum
	Indoor	DB ℃	29	32	18
Cooling		WB ℃	19	23	14
	Outdoor	DB ℃	46	52	10
		WB ℃	24	31	6
	Indoor	DB ℃	20	27	15
Heating		WB ℃	14.5		
	Outdoor	DB ℃	7	24	-7
		WB ℃	6	18	

3.2 For other units

Temp.		Mode	Rated	Maximum	Minimum
	Indoor	DB ℃	27	32	15
Cooling		WB ℃	19	23	14
	Outdoor	DB ℃	35	43	10
		WB ℃	24	26	6
	Indoor	DB ℃	20	27	15
Heating		WB ℃	14.5		
	Outdoor	DB ℃	7	24	-7
		WB ℃	6	18	

3.3 Brief Introduction for T1、T2、T3 working condition

Type of Air		Climate type	
Conditioner	T1	T2	Т3
Cooling Only	18 ℃~43℃	10℃~35℃	21℃~52℃
Heat pump	-7℃~43℃	-7℃~35℃	-7℃~52℃
Electricity Heating	~43°C	~35℃	~52°C



4. Functions



3 minutes protection

The 3 minutes protection of the compressor can avoid some damages to it and makes the compressor have a longer life.



Wide-angle airflow

Up-deflecting blades at the air-out provide wide-angle cold air to aircondition the entire room with room temperature difference hardly be felt



24 hours on/off timer

The appliance can be timed in actual hours and minutes as a clock.



Auto restart

In the event of power failure, the air conditioner restarts automatically when the power supply returns to normal.



Wireless remote control

Newly developed mini controller for remote control and easy operation.



Wired remote controller

Only one wired remote controller can control Max. 16 indoor units making your operation easily.



4-way airflow

The front air deflectors are adjustable for horizontal or vertical airconditioning, The airflow can be directed to air-condition the whole room or even a particular point.



Sleep mode

When the sleep mode is selected, the system regulates the airflow and temperature, gradually and eventually comes to a stop.



Auto switchover

Auto swichover function between two systems with one detector.



Central controller (1:128)

One central controller can control Max. 128 indoor units by employing the centralized monitoring system which makes use of air conditioner's sectional interconnecting technology.



Part 2 Indoor Units

4-way Cassette indoor unit	
(HBU-18~HBU-42)	9
Convertible indoor unit	
(HCFU-18~HCFU-42)	36
Duct indoor unit (HDU-18~HDU-50 and	
AD96NAHAEA)	67
Cabinet indoor unit (HPU-42~HPU-48 and	
AP96NACAEA)	97



4-way Cassette indoor unit (HBU-42~HBU-48)

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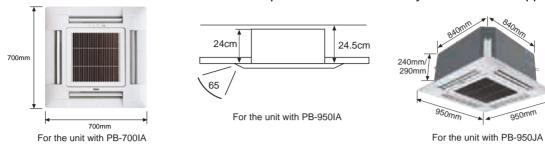


1. Features

New particular design:

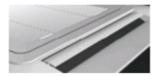
The new designed panel, smaller and universal. Harmony with the environment.

Both 700mm×700mm and 950mm×950mm panels have a uniform style and standard apperance.



Quiet operation

Airflow pass through the outlet smoothly and fluently owing to the streamline air outlet, bring you a much more quiet space.



New fan blade dimension is bigger ,and has bigger air flow(23% more). Adopts newly-designed space navigation 3-dimensional irregular helix fan, more steady operation, much silencer, the min. noise level is only 36dBA.

diffuser

3-dimensional blade

Fresh air outlet (for the unit with PB-700IA and PB-950JA panel)

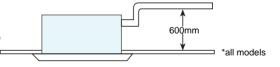
Pre-set fresh air outlet, can introduce the outside fresh air into the room, greatly improve the indoor air quality. Be away from "air conditioner symptom"



Built-in High Head Drain Pump

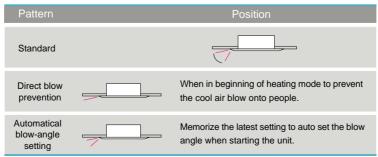
Built-in Drain Pump drains water automatically.

A standard drain-head height of up to 600 mm is possible, creating the ideal solution for perfect water drainage.



Comfortable temperature control system

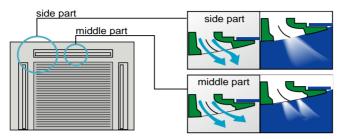
3 types of swing operation for convenient in different space.





Antifouling and movable baffle

The movable baffle has antifouling design and can effectively control the airflow and air direction. It is clean to use without polluting the ceiling. It has standard long acting filter screen to make the cleaning time largely extended. When there are many units, the operation of cleaning and maintenance will be largely reduced.



Efficient filter (option)

Efficient gray moire bactericidal filter, give you a healthy breath.





Advanced structure facilitating cleaning and installation

The suction grille can be rotated by 90 degree and its installation direction can be selected randomly.



Press slightly, spring up automatically



Remove and install air filter screen



Remove and install air filter screen



Reinstall air filter screen after cleaning



2. Specifications

item			Mode	اد	HBU-18	3CF03
Functi	ion		Wiodi	J1	cooling	heating
Capac				BTU/h	17000	/
Capac				kW	5	
	ble heat ratio			KVV	75%	
	power input			W	1780	
	power input			W	2400	
	or COP			W/W	2.81	
	midifying capacity			10 - ³ ×m ³ /h	2.01	<u>'</u>
	, , , ,			-	3×2.5r	
	r cable			section	3x2.3i	11112
_	l cable			section	3×2.0r	nm2
	ecting cable			section	4 000.0	000 50
	r source			N, V, Hz	1, 220-2	
	ng /Max.Running current	1		A/A	8.2/1	
	Current			Α	40)
	of anti electric shock				I	/
	operating pressure of heat			Мра	2.9	
Max.	operating pressure of cold	side		Мра	2.9	
	Unit model (color)				HBU-18CF03(INDO	
		Type × Number			Centrifu	gal × 1
	Fan	Speed(H-M-L)		r/min	750±20/650±	:30/520±30
	ran	Fan motor output p	ower	kW	0.05	55
±		Air-flow(H-M-L)		m³/h	67	0
ndoor unit		Type / Diameter		mm	/	
100	Heat exchanger	Temp. scope		$^{\circ}$ C	cooling: 43~60	heating:6~7
Indoc		External	(LxWxH)	mm×mm×mm	570×57	
	Dimension	Package	(LxWxH)	mm×mm×mm	718×68	
	Control type (Pemote /		(LAVVAII)		Rem	
	Control type (Remote /wired /model)					
l	Noise level (H-M-L)			4D(V)	45/41	1/37
	Noise level (H-M-L)	ning)		dB(A)	45/40	
	Noise level (H-M-L) Weight (Net / Ship		(1. AM 11)	kg/kg	19/23	35
lel	, ,	External		kg / kg mm×mm×mm	19/23 700×7	35 00×60
Panel	Weight (Net / Ship Dimension	External Package		kg / kg mm×mm×mm mm×mm×mm	19/23 700×7 740×75	35 00×60 0×115
Panel	Weight (Net / Ship Dimension Weight (Net / Ship	External Package		kg / kg mm×mm×mm	19/23 700×7 740×75 3.5/4	35 00×60 0×115 4.5
Panel	Weight (Net / Ship Dimension	External Package pping)	(LxWxH)	kg / kg mm×mm×mm mm×mm×mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE	35 00×60 0×115 4.5 DOOR) (WHITE)
Panel	Weight (Net / Ship Dimension Weight (Net / Ship	External Package pping) Model / Manufactu	(LxWxH)	kg / kg mm×mm×mm mm×mm×mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC	35 00×60 0×115 4.5 DOOR) (WHITE) MITSUBISHI
Panel	Weight (Net / Ship Dimension Weight (Net / Ship	External Package pping) Model / Manufactu Oil model	(LxWxH)	kg / kg mm×mm×mm mm×mm×mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE	35 00×60 0×115 4.5 DOOR) (WHITE) MITSUBISHI D MS-56
Panel	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color)	External Package pping) Model / Manufactu	(LxWxH)	kg / kg mm×mm×mm mm×mm×mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE	35 00×60 0×115 4.5 OOOR) (WHITE) MITSUBISHI D MS-56
Panel	Weight (Net / Ship Dimension Weight (Net / Ship	External Package pping) Model / Manufactu Oil model	(LxWxH)	kg / kg mm×mm×mm mm×mm×mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52	35 00×60 0×115 4.5 DOOR) (WHITE) MITSUBISHI D MS-56 0
Panel	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color)	External Package oping) Model / Manufactu Oil model Oil charging	(LxWxH)	kg / kg mm×mm×mm mm×mm×mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE	35 00×60 0×115 4.5 DOOR) (WHITE) MITSUBISHI D MS-56 0
Panel	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color)	External Package sping) Model / Manufactu Oil model Oil charging Type Protection type Starting method	(LxWxH)	kg / kg mm×mm×mm mm×mm×mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma	35 00×60 0×115 4.5 DOOR) (WHITE) MITSUBISHI D MS-56 0 ARY
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color)	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type	(LxWxH)	kg / kg mm×mm×mm mm×mm×mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma direct Axial	35 00×60 0×115 4.5 DOOR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor	External Package sping) Model / Manufactu Oil model Oil charging Type Protection type Starting method	(LxWxH)	kg / kg mm×mm×mm mm×mm×mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma	35 00×60 0×115 4.5 DOOR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color)	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number	(LxWxH)	kg / kg mmxmmxmm mmxmmxmm kg / kg	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma direct Axial	35 00×60 0×115 4.5 DOOR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor	External Package oping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed	(LxWxH)	kg / kg mmxmmxmm mmxmmxmm kg / kg	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma direct Axial	35 00×60 0×115 4.5 DOOR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 .30 3
Outdoor unit Panel	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p	(LxWxH)	kg / kg mmxmmxmm mmxmmxmm kg / kg r/min kW	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma direct Axial 860± 0.00	35 00×60 0×115 4.5 0OOR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 -330 3
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROT/ Inner therma direct Axial 860± 0.00	35 00×60 00×115 4.5 00OR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 -330 3 00 52x0.36
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L)	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROT/ Inner therma direct Axial 860± 0.00 250 TP2M / 9.	35 00×60 0×115 4.5 00OR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 -330 3 00 52x0.36 / heating: 6~7
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma direct Axial 860± 0.00 250 TP2M / 9. cooling: 43~60	35 00×60 0×115 4.5 00OR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 -330 3 00 52x0.36 / heating: 6~7 0×680
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger Dimension	External Package ping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External Package	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mmxmmxmm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma direct Axial 860± 0.0 250 TP2M / 9. cooling: 43~60 815×29 960×41	35 00×60 0×115 4.5 0OOR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 .30 3 00 52×0.36 / heating: 6~7 0×680 0×765
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control metho	External Package ping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External Package	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C mmxmmxmm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma direct Axial 860± 0.0 250 TP2M / 9. cooling: 43~60 815×29 960×41 Capillar	35 00×60 0×115 4.5 0OOR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 .30 3 00 52x0.36 / heating: 6~7 0×680 0×765 y tube
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control metho Defrosting	External Package ping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External Package	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma direct Axial 860± 0.00 250 TP2M / 9. cooling: 43~60 815×29 960×41 Capillar Auton	35 00×60 0×115 4.5 0OOR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 .30 3 00 52×0.36 / heating: 6~7 0×680 0×765 y tube
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level	External Package ping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External Package d	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A)	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROT/ Inner therma direct Axial 860± 0.0 250 TP2M / 9. cooling: 43~60 815×29 960×41 Capillar Auton	35 00×60 0×115 4.5 0OOR) (WHITE) MITSUBISHI 0 MS-56 0 ARY I protection start × 1 .30 3 00 52x0.36 / heating: 6~7 0×680 0×765 y tube natic
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Ship	External Package poing) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External Package d	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma direct Axial 860± 0.0 250 TP2M / 9. cooling: 43~60 815×29 960×41 Capillar Auton 56	35 00×60 0×115 4.5 0OOR) (WHITE) MITSUBISHI 0 MS-56 0 ARY I protection start × 1 -330 3 00 52×0.36 / heating: 6~7 0×680 0×765 y tube natic 6 555
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External Package d pping) Type / Charge	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROT/ Inner therma direct Axial 860± 0.0 250 TP2M / 9. cooling: 43~60 815×29 960×41 Capillar Autom 566 52/8	35 00×60 0×115 4.5 0OOR) (WHITE) MITSUBISHI 0 MS-56 0 ARY I protection start × 1 -330 3 00 52×0.36 / heating: 6~7 0×680 0×765 y tube natic 55 800
Outdoor unit	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Ship	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External Package d Type / Charge Liquid	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROT/ Inner therma direct Axial 8603 0.0 250 TP2M / 9. cooling: 43~60 815×29 960×41 Capillar Auton 56 52/5 R22/1	35 00×60 0×115 4.5 0OOR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 -330 3 00 52×0.36 / heating: 6~7 0×680 0×765 y tube natic 55 800 5
Outdoor unit	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Ship Refrigerant Pipe	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External Package d pping) Type / Charge	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROT/ Inner therma direct Axial 860± 0.0 250 TP2M / 9. cooling: 43~60 815×29 960×41 Capillar Autom 56 52/8 R22/1 6.3	35 00×60 0×115 4.5 0OOR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 -330 3 00 52x0.36 / heating: 6~7 0×680 0×765 y tube hatic 555 8800 57
	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Ship Refrigerant	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External Package d Type / Charge Liquid Gas	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROTA Inner therma direct Axial 860± 0.0 250 TP2M / 9. cooling: 43~60 815×29 960×41 Capillar Autom 56 52/5 R22/1 6.3 12. Flar	35 00×60 0×115 4.5 00OR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1 -330 3 00 52×0.36 / heating: 6~7 0×680 0×765 y tube hatic 555 800 57 ed
Outdoor unit	Weight (Net / Ship Dimension Weight (Net / Ship Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Ship Refrigerant Pipe	External Package pping) Model / Manufactu Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Temp. scope External Package d Type / Charge Liquid	(LxWxH)	kg / kg mmxmmxmm kg / kg r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm	19/23 700×7 740×75 3.5/4 HBU-18CF03(OUTE TH338VEEC DIAMONE 52 ROT/ Inner therma direct Axial 860± 0.0 250 TP2M / 9. cooling: 43~60 815×29 960×41 Capillar Autom 56 52/8 R22/1 6.3	35 00×60 0×115 4.5 00OR) (WHITE) MITSUBISHI D MS-56 0 ARY I protection start × 1



item			Mod	el	HBU-18	BHF03
Funct	ion		154		cooling	heating
Capa				BTU/h	17000	18700
Capa	· · · · · · · · · · · · · · · · · · ·			kW	5	5.5
	ble heat ratio				75%	/
	power input			W	1780	1900
	power input			W	2400	2400
	or COP			W/W	2.81	2.89
	midifying capacity			10 - ³ ×m ³ /h	1.0	6
	r cable			section	3×2.5i	mm2
	I cable			section		
	ecting cable			section	3×2.0mm2+2	2×0.75mm2
	r source			N, V, Hz	1, 220-2	230, 50
Runni	ng /Max.Running current	1		A/A	cooling 8.2/11.0	heating9.0/11.0
	Current			Α	40	
Class	of anti electric shock					/
Circui	t breaker			Α	/	30
Max.	operating pressure of hea	t side		Мра	2.9	14
	operating pressure of cold			Мра	2.9	14
	Unit model (color)				HBU-18HF03(IND	OOR) (WHITE)
	(111)	Type × Number			Centrifu	
		Speed(H-M-L)		r/min	750±20/650±	±30/520±30
	Fan	Fan motor output	power	kW	0.09	55
±		Air-flow(H-M-L)		m³/h	67	0
l n		Type / Diameter		mm	/	
ndoor unit	Heat exchanger	Temp. scope		$^{\circ}\mathbb{C}$	cooling: 43~60	heating:6~7
luc Inc		External	(LxWxH)	mm×mm×mm	570×57	_
	Dimension	Package	(LxWxH)	mm×mm×mm	718×68	0×380
	Control type (Remote	/wired /model)			Rem	ote
	Noise level (H-M-L)	, , , , , , , , , , , , , , , , , , , ,	ı	dB(A)	45/40)/32
	Weight (Net / Shi	pping)		kg / kg	19/2	
_		External	(LxWxH)	mm×mm×mm	700×7	00×60
Panel	Dimension	Package	(LxWxH)	mm×mm×mm	740×75	0×115
ď	Weight (Net / Shi	·		kg / kg	3.5/-	4.5
	Unit model (color)				HBU-18HF03(OUTI	OOOR) (WHITE)
	,	Model / Manufactu	ıre		TH338VEEC	MITSUBISHI
		Oil model			DIAMONI	
		Oil charging			52	0
	Compressor	Туре			ROTA	ARY
		Protection type			Inner therma	I protection
		Starting method			direct	start
		Type × Number			Axial	× 1
iun		Speed		r/min	860=	<u>⊧</u> 30
oor	Fan	Fan motor output	power	kW	0.0	
Outdoor unit		Air-flow(H-M-L)		m³/h	250	
ō		Type / Diameter		mm	TP2M / 9.	52x0.36
	Heat exchanger	Temp. scope		°C	cooling: 43~60	
		External	(LxWxH)	mm×mm×mm	815×29	-
	Dimension	Package	(LxWxH)	mm×mm×mm	960×41	0×765
	Refrigerant control meth	+		mm/mm	Capillar	
	Defrosting		1		Auton	-
	Noise level			dB(A)	56	
	Weight (Net / Sh	ipping)	1	kg / kg	50/	
	Refrigerant	Type / Charge		g	R22/1	
		Liquid		mm	6.3	
Ď	Pipe	Gas	1	mm	12.	
PIPING	Connecting Method	340		.,,,,,,	Flar	
<u> </u>	_	MAX.Drop	1	m	5	
	Between I.D &O.D	MAX.Piping length	1	m		
					10	



item			Mode	el le	HBU-2	8CF03
Functi	ion		I WIGG	J1	cooling	heating
Capac				BTU/h	24000	/
Capac	•			kW	7.1	1
	ble heat ratio			N.V.	75%	1
	power input			W	2850	1
	power input			W	3600	1
	or COP			W/W	2.49	1
	midifying capacity			10 - ³ ×m ³ /h	-	3.0
	r cable			section	3G×4.	
	l cable			section		
	ecting cable			section	4×0.7	5mm2
	r source			N, V, Hz	1. 220-	230, 50
	ing /Max.Running current			A / A	cooling	
	Current			A	6	
	of anti electric shock			7.		1
	t breaker			Α	40	/
	operating pressure of heat	side		Mpa	2.8	/
	operating pressure of cold			Мра	0.8	/
wiax.	Unit model (color)	0.00		ινιρα	HBU-28CF03(IND	OOR) (WHITE)
	STIR MODEL (COLOT)	Type × Number			Centrifu	
		Speed(H-M-L)		r/min	700±30/590	
	Fan	Fan motor output p) OWAr	kW	0.0	
<u>.</u>		Air-flow(H-M-L)		m³/h	12	
Indoor unit		Type / Diameter		mm	TP2M / 9	
oor	Heat exchanger	Temp. scope		°C	cooling	
luģ		External	(1 vWvH)	mm×mm×mm	840×84	
	Dimension	Package	(LxWxH)	mm×mm×mm	920×92	
	Control type (Remote /	wired /model)	(LAWAII)	THI TAILLIA THE	Ren	
	Noise level (H-M-L)	wired /illodelj		dB(A)	44/4	
	Weight (Net / Ship	nnina)		kg/kg	28/	
	Troight (Hot? Omp	External	(1 v W v H)	mmxmmxmm	950×9	
Panel	Dimension	Package		mm×mm×mm	985×98	
Ъ	Weight (Net / Ship		(LATTAIT)	kg / kg	6/	
	Unit model (color)	, pg)			HBU-28CF03(OUT	
	Cim meder (cerei)				1.20 200. 00(001	
	1	IModel / Manufactu	ıre		THU33WC6	· · · · · · · · · · · · · · · · · · ·
		Model / Manufactu Oil model	ire		THU33WC6 SUNIS	-U HITACHI
		Oil model	ire		SUNIS	-U HITACHI O-4GSI
	Compressor	Oil model Oil charging	ire			U HITACHI O-4GSI 50
	Compressor	Oil model Oil charging Type	ire		SUNIS 10 ROT	-U HITACHI O-4GSI 50 ARY
	Compressor	Oil model Oil charging Type Protection type	ire		SUNIS 10 ROT Inner therma	-U HITACHI O-4GSI 50 ARY al protection
	Compressor	Oil model Oil charging Type Protection type Starting method	ire		SUNIS 10 ROT Inner therma	U HITACHI O-4GSI 50 ARY al protection
ıit		Oil model Oil charging Type Protection type Starting method Type × Number	ire	r/min	SUNIS(10 ROT Inner therma direct Axia	U HITACHI O-4GSI 50 ARY al protection start I x 1
r unit	Compressor	Oil model Oil charging Type Protection type Starting method Type × Number Speed		r/min kW	SUNIS(10 ROT Inner therma direct Axia 1060	U HITACHI O-4GSI 50 ARY al protection
door unit		Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p			SUNISC 10 ROT Inner therma direct Axia 1060	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50
Outdoor unit		Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L)		kW	SUNISC 10 ROT Inner therma direct Axia 1060 0.0	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06
Outdoor unit		Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter		kW m³/h	SUNIS(10 ROT Inner therma direct Axia 1060 0.0 32 TP2M / 9	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06
Outdoor unit	Fan	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch		kW m³/h mm	SUNISI 10 ROT Inner therms direct Axia 1060 0.0 32 TP2M / 9	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36
Outdoor unit	Fan Heat exchanger	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter	power	kW m³/h	SUNISI 10 ROT Inner therms direct Axia 1060 0.0 32 TP2M / 9	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 // heating: 6~7
Outdoor unit	Fan	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External		kW m³/h mm	SUNIS(10 ROT Inner therms direct Axia 1060 0.0 32 TP2M / 9 2 cooling: 43–60 860×34	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 // heating: 6~7
Outdoor unit	Fan Heat exchanger Dimension	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	DOWER (LxWxH)	kW m³/h mm °C mm×mm×mm	SUNIS(10 ROT Inner therms direct Axia 1060 0.0 32 TP2M / 9 cooling: 43-60 860x34 1005x4	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 I / heating: 6~7 40x730
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	DOWER (LxWxH)	kW m³/h mm °C mm×mm×mm mm×mm×mm	SUNIS(10 ROT Inner therma direct Axia 1060 0.0 32 TP2M / 9 cooling: 43~60 860×34 1005×4 Capilla	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 I / heating: 6-7 40x730 20x815
Outdoor unit	Fan Heat exchanger Dimension	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	DOWER (LxWxH)	kW m³/h mm C mmxmmxmm mmxmmxmm	SUNIS(10) ROT Inner therma direct Axia 1060 0.0 32 TP2M / 9 cooling: 43~60 860×34 1005×4 Capilla Autol	U HITACHI O-4GSI 50 ARY al protection start I x 1 0±50 06 40 0.52x0.36 2 I / heating: 6~7 40x730 20x815 ry tube
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d	DOWER (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A)	SUNIS(10 ROT Inner therma direct Axia 1060 0.0 32 TP2M / 9 cooling: 43~60 860×34 1005×4 Capilla Autol	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 I / heating: 6~7 40x730 20x815 ry tube matic
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Shi	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d	DOWER (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg	SUNIS(10 ROT Inner therma direct Axia 1060 0.0 32 TP2M / 9 cooling: 43~60 860×34 1005×4 Capilla Autol	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 I / heating: 6~7 40x730 20x815 ry tube matic 9 (85
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A)	SUNIS(10) ROT Inner therma direct Axia 106(0.0) 32 TP2M / 9 2 cooling: 43–60 860×34 Capilla Autor 5 70, R22/	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 I / heating: 6~7 40x730 20x815 ry tube matic 9 (85
	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Shill Refrigerant	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d pping) Type / Charge Recharge quantity	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g	SUNIS(10) ROT Inner therma direct Axia 106(0.0) 32 TP2M / 9 2 cooling: 43–60 860×34 Capilla Autor 5 70, R22/	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 I / heating: 6~7 40x730 20x815 ry tube matic 9 (85 2680 5
	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Shi	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d pping) Type / Charge	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm dB(A) kg / kg g g/m	SUNIS(10) ROT Inner therma direct Axia 106(0.0) 32 TP2M / 9 2 cooling: 43–60 860×34 Capilla Autor 5 700 R22/	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 I / heating: 6-7 40x730 20x815 ry tube matic 9 //85 2680 5 52
PIPING Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Shill Refrigerant	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d pping) Type / Charge Recharge quantity Liquid	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm	SUNIS(10 ROT Inner therma direct Axia 1060 0.0 32 TP2M / 9 2 cooling: 43~60 860×34 1005×4 Capilla Autor 5 70, R22/ 6 9.1	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 I / heating: 6-7 40x730 20x815 ry tube matic 9 //85 2680 5 52
	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Shill Refrigerant Pipe Connecting Method	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d pping) Type / Charge Recharge quantity Liquid	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm	SUNIS(10) ROT Inner therma direct Axia 1060 0.0 32 TP2M / 9 2 cooling: 43~60 860×34 1005×4 Capilla Autor 5 70, R22/ 6 9.: 15	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 I / heating: 6~7 40x730 20x815 ry tube matic 9 /85 2680 5 52 .88
	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Shill Refrigerant Pipe	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d pping) Type / Charge Recharge quantity Liquid Gas	DOWER (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm mm	SUNIS(10) ROT Inner therma direct Axia 1060 0.0 32 TP2M / 9 2 cooling: 43~60 860×34 1005×4 Capilla Autor 5 700 R22/ 6 9.0 15. Fla	U HITACHI D-4GSI 50 ARY al protection start I x 1 D±50 06 40 0.52x0.36 2 I / heating: 6~7 40x730 20x815 ry tube matic 9 /85 2680 5 52 .88 red



item			Mode	اد	HBU-28	RHE03
Functi	ion		IVIOG	51	cooling	heating
				BTU/h	24000	26600
Capa	•				7.1	7.8
Capa				kW	7.1	7.0
	ble heat ratio					7
	power input			W	2700	3000
_	power input			W	3500	3400
	or COP			W/W	2.63	2.6
Dehur	midifying capacity			10 - ³xm³/h	3.0	
Powe	r cable			section	3G×4.0	mm2
Signa	l cable			section	6×0.75	mm?
Conne	ecting cable			section	0x0.75	1111112
Powe	r source			N, V, Hz	1, 220-2	230, 50
Runni	ing /Max.Running current	•		A/A	cooling 12.8/17.0	heating13.5/16.0
Start (Current			Α	60)
	of anti electric shock					/
	t breaker			Α	40	/
	operating pressure of heat	side		Мра	2.94	2.94
	operating pressure of riear			Мра	2.94	2.94
iviax.	Unit model (color)	JIUE	-	ινιμα	HBU-28HF03(IND	<u> </u>
	OTHER HOUSE (COLOT)	Type o Niverbar	-		Centrifu	
		Type × Number		. .		
	Fan	Speed(H-M-L)		r/min	700±30/590±	
		Fan motor output	power	kW	0.03	
nit		Air-flow(H-M-L)		m³/h	120	
r u	Heat exchanger	Type / Diameter		mm	TP2M / 9	52x0.36
Indoor unit	Treat exerianger	Temp. scope		$^{\circ}$	cooling: 43~60	
드	Dimension	External	(LxWxH)	mm×mm×mm	840×84	0×240
	Dimension	Package	(LxWxH)	mm×mm×mm	920×92	0X340
	Control type (Remote /	wired /model)			Rem	ote
	Noise level (H-M-L)			dB(A)	44/40)/37
	Weight (Net / Ship	ping)		kg / kg	28/	30
		External	(LxWxH)	mm×mm×mm	950×95	50×80
Panel	Dimension	Package	<u> </u>	mm×mm×mm	985×98	5×115
90	Weight (Net / Ship	•		kg/kg	6/	9
	Unit model (color)	F 9)		3 3	HBU-28HF03(OUTI	OOR) (WHITE)
	Crite model (color)	Model / Manufactu	Iro.		THU33WC6-	
		Oil model	1		SUNISC	
		Oil Illouel)-4GSI
l		Oil charging				
	Compressor	Oil charging			105	50
	Compressor	Туре			108 ROTA	50 ARY
	Compressor	Type Protection type			109 ROT/ Inner therma	50 ARY I protection
	Compressor	Type Protection type Starting method			109 ROT/ Inner therma direct	50 ARY I protection start
	Compressor	Type Protection type Starting method Type × Number			10t ROT/ Inner therma direct Axial	ARY I protection start × 1
unit	Compressor	Type Protection type Starting method Type × Number Speed		r/min	10t ROT/ Inner therma direct Axial 840s	ARY I protection start × 1 =30
or unit		Type Protection type Starting method Type × Number Speed Fan motor output	power	r/min kW	10t ROT/ Inner therma direct Axial 840s 0.0	ARY I protection start × 1 -30 6
ıtdoor unit		Type Protection type Starting method Type × Number Speed	power		100 ROT/ Inner therma direct Axial 840 0.0	ARY I protection start × 1 £30 6
Outdoor unit		Type Protection type Starting method Type × Number Speed Fan motor output	power	kW	10t ROT/ Inner therma direct Axial 840s 0.0	ARY I protection start × 1 £30 6
Outdoor unit		Type Protection type Starting method Type × Number Speed Fan motor output Air-flow(H-M-L)	power	kW m³/h	108 ROTA Inner therma direct Axial 840: 0.0 324 TP2M / 9	ARY Il protection start x 1 c30 6 10 52x0.36
Outdoor unit	Fan	Type Protection type Starting method Type × Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter	power	kW m³/h	108 ROTA Inner therma direct Axial 840: 0.0 324 TP2M / 9	ARY Il protection start x 1 c30 6 10 52x0.36
Outdoor unit	Fan Heat exchanger	Type Protection type Starting method Type × Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch	power	kW m³/h mm	108 ROTA Inner therma direct Axial 840: 0.0 324 TP2M / 9	ARY I protection start x 1 230 6 40 52x0.36 / heating: 6~7
Outdoor unit	Fan	Type Protection type Starting method Type × Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External		kW m³/h mm	108 ROTA Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60	ARY I protection start x 1 ±30 66 40 52x0.36 / heating: 6~7
Outdoor unit	Fan Heat exchanger	Type Protection type Starting method Type x Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	(LxWxH)	kW m³/h mm °C mm×mm×mm	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60	ARY I protection start x 1 30 66 40 52x0.36 / heating: 6~7 0x380 60x410
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho	Type Protection type Starting method Type x Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar	ARY I protection start x 1 ±30 66 40 52x0.36 / heating: 6~7 0x380 50x410 y tube
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho Defrosting	Type Protection type Starting method Type x Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar Auton	ARY I protection start x 1 e30 66 10 52x0.36 / heating: 6~7 0x380 60x410 y tube natic
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level	Type Protection type Starting method Type × Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d	(LxWxH)	kW m³/h mm °C mm×mm×mm mm/mm dB(A)	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar Auton	ARY I protection start x 1 x 30 66 10 52x0.36 / heating: 6~7 0x380 60x410 y tube natic
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho Defrosting	Type Protection type Starting method Type × Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar Auton	ARY I protection start x 1 x 1 x 30 6 10 52x0.36 / heating: 6~7 0x380 60x410 y tube natic
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level	Type Protection type Starting method Type x Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d	(LxWxH)	kW m³/h mm °C mm×mm×mm mm×mm×mm mm/mm dB(A) kg / kg g	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar Auton 59 70/ R22/2	ARY I protection start x 1 c30 66 10 52x0.36 / heating: 6~7 0x380 60x410 y tube natic 0 355
	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Shi	Type Protection type Starting method Type x Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d pping) Type / Charge Recharge quantity	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar Auton 59 70/ R22/2	ARY I protection start x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1
	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Shi	Type Protection type Starting method Type × Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d Type / Charge Recharge quantity Liquid	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar Auton 59 70/ R22/2	ARY I protection start x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1
	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Ship Refrigerant Pipe	Type Protection type Starting method Type x Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d pping) Type / Charge Recharge quantity	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar Auton 59 70/ R22/2 69 9.5	50 ARY I protection start x 1 x 1 x 30 6 40 52x0.36 / heating: 6~7 0x380 50x410 y tube hatic 930 52 38
PIPING Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Shirl Refrigerant	Type Protection type Starting method Type × Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d Type / Charge Recharge quantity Liquid Gas	(LxWxH)	kW m³/h mm C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm mm	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar Auton 55 70/ R22/2 68 9.5	50 ARY I protection start x 1 x 1 x 30 66 40 52x0.36 / heating: 6~7 0x380 50x410 y tube hatic 9 385 9930 5 2 38 ed
	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Ship Refrigerant Pipe Connecting Method	Type Protection type Starting method Type × Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d Type / Charge Recharge quantity Liquid Gas MAX.Drop	(LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar Auton 59 70/ R22/2 66 9.5	ARY I protection start x 1 e30 6 H0 52x0.36 / heating: 6~7 0x380 60x410 y tube hatic 0 85 e930 6 2 88 eed
	Fan Heat exchanger Dimension Refrigerant control metho Defrosting Noise level Weight (Net / Ship Refrigerant Pipe	Type Protection type Starting method Type × Number Speed Fan motor output Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package d Type / Charge Recharge quantity Liquid Gas	(LxWxH) (LxWxH)	kW m³/h mm C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm mm	108 ROT/ Inner therma direct Axial 840: 0.0 324 TP2M / 9 2 cooling: 43~60 948×83 1085×96 Capillar Auton 55 70/ R22/2 68 9.5	ARY I protection start x 1 e30 6 H0 52x0.36 / heating: 6~7 0x380 60x410 y tube hatic 0 85 e930 6 2 88 eed



item			Mode	el	HBU-2	8CH03
Functi	on			-	cooling	heating
Capac				BTU/h	24000	
Capac	city			kW	7.1	
	power input			W	2700	
	power input			W	3400	
	or COP			W/W	2.63	
Dehur	midifying capacity			10 - ³ ×m ³ /h	3	.0
	rcable			section	3G 4.0	0mm2
Signa	cable			section	10.07	
Conne	ecting cable			section	4G 0.7	5mm2
Powe	r source			N, V, Hz	1 PH 220) V 50 Hz
Runni	ng /Max.Running current			A/A	12.3	3/15
	Current			Α	60)A
Circui	t breaker			Α	40A	
Max.	perating pressure of heat	side		Мра	2.8	
	operating pressure of cold			Mpa	0.8	
	Unit model (color)				HBU-28CH	03(WHITE)
	, ,	Type x Number			Centrifu	ıgal × 1
	For.	Speed(H-M-L)		r/min	700±30 /590=	
	Fan	Fan motor output p	ower	kW	0.0	
		Air-flow(H-M-L)		m³/h	12	
		Type / Diameter		mm	TP2	
ij	Heat exchanger	Total Area		m²	0.4	
Indoor unit	3-	Temp. scope		℃	2.	
00		External	(LxWxH)	mm×mm×mm		40×240
ng	Dimension	Package		mm×mm×mm	910×9°	
_	Air sending angle	Lackago	(EXTINITY		52	
	Drainage pipe (material,	I D /O D)		mm	PVC	
		vired /model)		.,,,,,		note
	Fresh air hole dimension	virca /illoaci)		mm	/	
	Noise level (H-M-L)		<u> </u>	dB(A)	44/4	0/27
	Weight (Net / Ship	ning)		kg / kg	28/	
		External	(LxWxH)	mm×mm×mm	950×9	
Panel	Dimension	Package	(LxWxH)	mm×mm×mm		85×115
Ра	Weight (Net / Ship		(LXVVXII)	kg / kg	903.49	
	Unit model (color)	pirig)		kg / kg	HBU-28CH	_
	Offic frieder (color)	Model / Manufactu	ıro.			
	Chit model (color)	Model / Manufactu	ire		LH45VBAC	C/Mitsubishi
		Oil model	ire		LH45VBAC MS	C/Mitsubishi -32
	Compressor	Oil model Oil charging	re		LH45VBAC MS 900	C/Mitsubishi -32 cm ³
		Oil model Oil charging Type	re		LH45VBAC MS 900 rot	C/Mitsubishi -32 cm ³
		Oil model Oil charging Type Protection type	re		LH45VBAC MS 900 rot inner thermal protection	C/Mitsubishi -32 cm ³
		Oil model Oil charging Type Protection type Starting method	re		LH45VBAC MS 900 rot inner thermal protection Direct Start	c/Mitsubishi -32 cm³ ary ———————————————————————————————————
		Oil model Oil charging Type Protection type Starting method Type × Number	ire	alari-	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia	C/Mitsubishi -32 cm³ ary I x 1
		Oil model Oil charging Type Protection type Starting method Type × Number Speed		r/min	LH45VBAC MS 900 rot: inner thermal protection Direct Start Axia	C/Mitsubishi -32 cm³ ary x 1)±50
nit	Compressor	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p		kW	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060	C/Mitsubishi -32 cm³ ary 1 x 1 0±50 08
unit	Compressor	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L)		kW m³/h	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0	C/Mitsubishi -32 cm³ ary I x 1 0±50 08
oor unit	Compressor	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter		kW	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
ıtdoor unit	Compressor	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch		kW m³/h mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope	Dower	kW m³/h mm	LH45VBAC MS 900 rot: inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor Fan Heat exchanger	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External	oower (LxWxH)	kW m³/h mm °C mmxmmxmm	LH45VBAC MS 900 rot: inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/ 43- 862×3-	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor Fan Heat exchanger Dimension	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	Dower	kW m³/h mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/ 43 862×3 1050×8	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material,	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/ 43 862×3 1050×9 PVC	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/ 43 862×3 1050×5 PVC Cap	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control methor) Defrosting	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/ 43 862×3 1050×9 PVC Cap	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control methor Defrosting) Volume of Accumulator	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm mm/mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/ 43 862×3 1050×9 PVC Cap Autor	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1066 0.0 27 photic foil ripple 25/ 43 862×3 1050×9 PVC Cap Autor	c/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control methodo Defrosting) Volume of Accumulator Noise level Type of Four way valve	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm mm/mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1066 0.0 27 photic foil ripple 25/ 43: 862×3: 1050×9 PVC Cap Autor 5 SHF-4	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm mm/mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1066 0.0 27 photic foil ripple 25/ 43 862×3 1050×9 PVC Cap Autor	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control methodo Defrosting) Volume of Accumulator Noise level Type of Four way valve	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm mm/mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1066 0.0 27 photic foil ripple 25/ 43: 862×3: 1050×9 PVC Cap Autor 5 SHF-4	C/Mitsubishi -32 cm³ ary —— I x 1 0±50 08 00 e slit fin* φ9.52 1.7 -60 40×830 079×440 26/32 iillary matic 3 8 4-10A PE
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A)	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1066 0.0 27 photic foil ripple 25/ 43 862×3 1050×9 PVC Cap Autor 5 SHF	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	Oower (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A)	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1066 0.0 27 photic foil ripple 25/ 43/ 862×3/ 1050×9 PVC Cap Autor 5 SHF XF 63/ R22/	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship Refrigerant)	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	Oower (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A)	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/ 43 862×3 1050×9 PVC Cap Autoi 5 SHF XF 63, R22/	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	Oower (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) kg / kg g g/m	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/ 43 862×3 1050×9 PVC Cap Autoi	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
PIPING Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship Refrigerant)	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	Oower (LxWxH) (LxWxH)	kW m³/h mm C mmxmmxmm mmxmmxmm mm/mm L dB(A) kg / kg g g/m mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/ 43 862×3 1050×9 PVC Cap Autoi 5 SHF XF 63, R22/ 6	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship Refrigerant) Pipe Connecting Method	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d pping) Type / Charge Recharge quantity Liquid Gas	Oower (LxWxH) (LxWxH)	kW m³/h mm C mmxmmxmm mmxmmxmm mm/mm L dB(A) kg / kg g g/m mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1060 0.0 27 photic foil ripple 25/ 43 862×3 1050×9 PVC Cap Autoi 5 SHF XF 63, R22/ 6 φ9	C/Mitsubishi -32 cm³ ary ———————————————————————————————————
	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship Refrigerant)	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	(LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) kg / kg g g/m mm mm	LH45VBAC MS 900 rot inner thermal protection Direct Start Axia 1066 0.0. 27 photic foil ripple 25/ 43 862×3 1050×9 PVC Cap Autor SHF XF 63, R22/ 69 915 Fla	C/Mitsubishi -32 cm³ ary ———————————————————————————————————



item			Mode	el	HBU-28	8HH03
Funct	ion		Wiodi		cooling	heating
Capa				BTU/h	24000	25000
Capa	, , , , , , , , , , , , , , , , , , ,			kW	7.1	7.5
	otal power input W 2700		2700			
Max. power input				W	3200	3200
EER or COP				W/W	2.63	2.77
	midifying capacity			10 - ³ ×m ³ /h	3.	0
Powe	r cable			section	3G*4.	0mm²
Signa	l cable			section	6G*0.7	75mm ²
Conne	ecting cable			section	00 0.7	Sillin
	r source			N, V, Hz	1N∼ 220	
	ng /Max.Running current			A/A	12.3	
	Current			Α	6	
	t breaker			Α	4	
	operating pressure of heat			Мра	2.	
Max.	operating pressure of cold	side		Мра	0.	
	Unit model (color)				HBU-28HH	
		Type × Number		, .	Centrifu	
	Fan	Speed(H-M-L)		r/min		0±40/470±50
		Fan motor output p	ower	kW m³/h	0.0	
		Air-flow(H-M-L)		m³/h		
. =	Heat evolunger	Type / Diameter Total Area		mm m²	TP2N 0.4	
- un	Heat exchanger			m² ℃	2-	
Indoor unit		Temp. scope External	(1 v /M•:L1)	mm×mm×mm	2- 840×84	
	Dimension	Package		mm×mm×mm	910×91	
	Air sending angle	rackaye	(LXVVXII)	IIIIIXIIIIIXIIIII	52	
	Drainage pipe (material,	I D /O D)		mm	~	
-		wired /model)		111111	PVC 26/32 Remote	
	Fresh air hole dimension			mm	/	
	Noise level (H-M-L)			dB(A)	44/4	0/37
	Weight (Net / Ship	nina)		kg / kg	28/	
_		External	(LxWxH)		950×9	
Panel	Dimension	Package		mm×mm×mm		85×115
Ъ	Weight (Net / Ship		(LAWAII)	kg / kg	6/	
	Unit model (color)	F····9/		ng, ng	HBU-28HH	
	(111)	Model / Manufactu	re			://Mitsubishi
		Oil model			MS	
	Communaces	Oil charging			900	cm ³
	Compressor	Туре			rota	ary
		Protection type			inner thermal protection	inner thermal protection
		Starting method			Direct Start	Direct Start
		Type x Number			Axia	
	Fan	Speed		r/min	1060	0±50
+	i uli	Fan motor output p	ower	kW	0.0	
.in		Air-flow(H-M-L)		m³/h	27	
Outdoor unit		Type / Diameter		mm	photic foil ripple	·
tdo	Heat exchanger	Row / Fin pitch			25/	
O		Temp. scope		${\mathbb C}$	43-	
	Dimension	External	(LxWxH)		862×73	
		Package	(LxWxH)		1050× 97	
	Drainage pipe (material,			mm	PVC	
	Refrigerant control method	d		mm/mm	Capi	
	Defrosting				Autor	
	Volume of Accumulator			T L	3	
	Noise level			dB(A)	5	
	Type of Four way valve				SHF-4	
	material of reduce noise	ning)			XF	
	Weight (Net / Ship			kg/kg	63/	
	Refrigerant	Type / Charge		g g/m	R22/2	
(D		Recharge quantity		g/m mm	6	.52
Ĭ	Pipe	Liquid Gas		mm	<u>φ9</u> φ15	
PIPING		GdS		mm		
⊭	Connocting Mathed					
В	Connecting Method	MAX Drop		m	Flai	
PIF	Connecting Method Between I.D &O.D	MAX.Drop MAX.Piping length		m m		10



itom			Model		HBU-42	CE03
item Functi	on	1	Iviodei		cooling	heating
-				DTII/b	41000	
Capac	•			BTU/h	12	
Capac	,			kW		
	ole heat ratio			107	75%	
	power input			W	4800	
	power input			W	5500	
	or COP			W/W	2.55	
	nidifying capacity			10 - ³ ×m ³ /h	4.5	
	rcable			section	5×2.5r	nm²
	cable			section	4×0.75	mm²
Conne	ecting cable			section	420:15	11111
Power	rsource			N, V, Hz	3PH,380-40	·
Runni	ng /Max.Running current	•		A/A	cooling 8	5.5/9.3
Start (Current			Α	50	
Class	of anti electric shock				I	
Circuit	t breaker			Α	30	
Max. o	operating pressure of heat	side		Мра	2.9	1
	operating pressure of cold			Мра	2.9	
	Unit model (color)			pu	HBU-42CF03(IND	
	5t 110001 (00101)	Type × Number			Centrifuç	,
		Speed	1	r/min	710±30/610±	
	Fan		00000		0.1	
		Fan motor output p	l	kW m³/h	198	
Indoor unit		Air-flow(H-M-L)		m³/h		
or u	Heat exchanger	Type / Diameter		mm	TP2M / 9.	
opu		Temp. scope		$^{\circ}\mathbb{C}$	cooling:	
<u> </u>	Dimension	External		mm×mm×mm	840×84	
		Package	(LxWxH)	mm×mm×mm	910×955	
	Control type (Remote /wired)			REMO	DTE	
	Noise level (H-M-L)			dB(A)	56/51	/46
	Weight (Net / Ship	pping)		kg / kg	45/3	8
_	Dimension	External	(LxWxH)	mm×mm×mm	950×95	0×80
Panel	Dimension	Package	(LxWxH)	mm×mm×mm	985×98	5×115
۵	Weight (Net / Ship	pping)	ı	kg / kg	6/9	1
	Unit model (color)				HBU-42CF03(OUTD	OOR) (WHITE)
	,	Model / Manufactu	ire		JT160BCBY1	L DAIKIN
		Oil model			SUNISO 4GSDID-K	DAPHNE SE56P
		Oil charging			1500-1	700
	Compressor	Type			SCRO	
		Protection type			Inner thermal	protection
		Starting method			direct	
			 		Axial	
		Type x Number		p/mai-	720±	
nit	Fan	Speed	<u> </u>	r/min		
or u		Fan motor output p	power	kW	0.15	
Outdoor unit		Air-flow(H-M-L)		m³/h	600 TDOM ()	
Out		Type / Diameter		mm	TP2M / 9.5	
	Heat exchanger	Row / Fin pitch			2 / *	
		Temp. scope		$^{\circ}$	cooling: 43~60 /	•
	Dimension	External	(LxWxH)	mm×mm×mm	1006×82	5×410
	Dimension	Package	(LxWxH)	mm×mm×mm	1130×93	
	Refrigerant control metho	d		mm/mm	Capillar	tube
	Defrosting				Autom	atic
	Volume of Accumulator			L	NC	
	Noise level			dB(A)	≪5	9
	Weight (Net / Shi	pping)	1	kg/kg	80/9	
\vdash	Refrigerant	Type / Charge		g	R22/3	
		. Jpo , Onarge		m g	Total piping length le	
	3	No need to rechar			i otal piping ichigin it	oo alan tolliciolo
	3	No need to rechar	ge I	-	GE.	
g		Recharge	ge	g/m	65	
ping	Pipe	Recharge Liquid	ge	g/m mm	9.5	2
Piping	Pipe	Recharge	ge	g/m	9.5 19.0	2 5
Piping	Pipe Connecting method	Recharge Liquid Gas		g/m mm mm	9.5 19.0 Flare	2 5 ed
Piping	Pipe	Recharge Liquid Gas Max.Drop between	n IU &OU*	g/m mm mm —— m	9.5 19.0 Flare 30	2 5 ed
Piping	Pipe Connecting method	Recharge Liquid Gas	n IU &OU*	g/m mm mm	9.5 19.0 Flare	2 5 ed



item			Mode	əl	HBU-42	HF03
Funct	ion				cooling	heating
Capac				BTU/h	41000	42600
Capac	•			kW	12	12.5
	ble heat ratio			1000	75%	
	power input			W	4500	4200
	power input			W	5600	
	or COP			W/W	2.67	5600 2.98
				10 - 3×m3/h	4.5	
	midifying capacity				5×2.5r	
	r cable			section	5x2.5i	111112
- 3	l cable			section	6×0.75	mm2
	ecting cable			section		
	r source			N, V, Hz	3, 380-4	
	ng /Max.Running current	1		A/A	cooling 8.5/10	neating8.0/10
	of anti electric shock				l	/
	operating pressure of heat			Мра	2.94	/
Max.	operating pressure of cold	side		Мра	2.94	/
	Unit model (color)				HBU-42HF03(INDC	
		Type × Number			Centrifuç	•
	Fan	Speed(H-M-L)		r/min	710±30/600±	
.±	i an	Air-flow(H-M-L)		m³/h	170	0
Indoor unit	Lloot ovekenger	Type / Diameter		mm	/	
ō	Heat exchanger	Temp. scope		$^{\circ}$	cooling: 4	13~60
ppu	· .	External	(LxWxH)	mmxmmxmm	840×84	0×290
_	Dimension	Package	(LxWxH)	mm×mm×mm	910×95	5×370
	Control type (Remote /	wired /model)			Rem	ote
	Noise level (H-M-L)	,		dB(A)	56/51	/46
	Weight (Net / Ship	ppina)		kg / kg	38/4	15
	()	External	(LxWxH)		950×95	
Panel	Dimension	Package	(LxWxH)		985×985×115	
Ъа	Weight (Net / Ship		(LAVVAII)	kg / kg	6/9	
	Unit model (color)	ping)		979	HBU-42HF03(OUTE	
	Offic frieder (color)	Model / Manufactu	ro		JT160GABY1	
		Oil model	16		DAPHNE	
		Oil charging			14000	
	Compressor				SCRO	
		Type				
		Protection type			Inner therma	
.=:		Starting method			direct	
unit	For	Type x Number		-/ '	Axial	
Outdoor u	Fan	Speed		r/min	740±	
uţģ		Air-flow(H-M-L)		m³/h	600 TPOM (8)	
Ő	Heat exchanger	Type / Diameter		mm	TP2M / 9.	
		Temp. scope		${\mathbb C}$	cooling: 43~60	
	Dimension	External	(LxWxH)	mm×mm×mm	1008×83	
		Package	(LxWxH)	mm×mm×mm	1130×93	
	Refrigerant control metho	d		mm/mm	Capillar	-
	Defrosting				Autom	
	Noise level			dB(A)	61	
	Weight (Net / Ship			kg / kg	80/9	
	Refrigerant	Type / Charge		g	R22/3	150
	L	Recharge quantity		g/m	65	<u> </u>
Ö	Dina	Liquid		mm	9.5	2
PIPING	Pipe	Gas		mm	19.0)5
ਜ਼	Connecting Method				Flare	ed
		MAX.Drop		m	30	
	Between I.D &O.D	MAX.Piping length		m	50	
				1		



Function Capacity	item			Mode	el e	HBU-4	2CH03
Capacity		ion		Wiodi	J.		
Capacity					BTU/h		——
Total power input		,					
Max. power input							
Debumidifying capacity					W		
Section	EER o	or COP			W/W	2.55	
Signat cable	Dehur	midifying capacity			10 - 3×m3/h		
Section	Power	r cable			section	5G*2.	5mm²
Power source	Signa	l cable			section	4G*0.7	75mm²
Running /Max.Running current	Conne	ecting cable			section		
Start Current					N, V, Hz	3N∼ 380-4	00V 50Hz
A 30	Runni	ng /Max.Running current			A/A	7.4/	8.8
Max. operating pressure of heat side					Α	5	8
Max. operating pressure of cold side							
Unit model (color)					_		
Fan	Max.		side		Мра	***	
Fan		Unit model (color)					
Fan motor output power kW 0.053							
Fam motor output power KW U.U.S.3		Fan					
Type				ower			
Heat exchanger							
Temp. scope C 2-7							
Air sending angle	ij	Heat exchanger					
Air sending angle	ı.						
Air sending angle	00	Dimension					
Air sending angle	рu		Package	(LxWxH)	mm×mm×mm		
Control type (Remote /wired /model) Remote Fresh air hole dimension mm G99	_						
Piresh air hole dimension					mm		
Outlet distribution hole dimension			wired /model)				
Noise level (H-M-L) Weight (Net / Shipping) Kg / kg 38/42					mm		
Weight (Net / Shipping) Kg / kg 38/42			nension				
Dimension							
Differison Package (LxWxH) mmxmmxmm 985x985x115		Weight (Net / Ship					
Unit model (color)	o	Dimension					
Unit model (color)	an			(LxWxH)			
Compressor	ш	Weight (Net / Ship	ping)		kg / kg		
Compressor Oil model		Unit model (color)					
Compressor Oil charging Type Scroll Type Protection type Inner thermal protection / /				re			
Type							
Type		Compressor					
Starting method Direct Start							roll Type
Type × Number Speed r/min 840±30 / 540±30							/
Fan							/
Fan motor output power kW 0.156 Air-flow(H-M-L) m³/h 6000 Heat exchanger Type / Diameter mm photic foil ripple slit fin* φ9.52 Row / Fin pitch 25/1.7 Temp. scope ℃ 43-60 Dimension External (LxWxH) mmxmmxmm 1008x830x480 Package (LxWxH) mmxmmxmm 1130x930x490 Drainage pipe (material, I.D./O.D.) mm PVC 26/32 Refrigerant control method mm/mm Capillary Defrosting Automatic Volume of Accumulator L 3 Noise level dB(A) 59 Type of Four way valve SHF-4-10A material of reduce noise XPE Weight (Net / Shipping) kg / kg 80/90 Refrigerant Type / Charge g R22/3150 Refrigerant Type / Charge g R22/3150 Refrigerant Gas mm φ9.52 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30 Saturation MAX.Drop m 30 Saturation Saturation							
Fan motor output power kW 0.156 Air-flow(H-M-L) m³/h 6000 Type / Diameter mm photic foil ripple slit fin* φ9.52 Row / Fin pitch 25/1.7 Temp. scope © 43-60 Dimension External (LxWxH) mmxmmxmm 1008x830x480 Package (LxWxH) mmxmmxmm 1130x930x490 Drainage pipe (material , I.D./O.D.) mm PVC 26/32 Refrigerant control method mm/mm Capillary Defrosting Automatic Volume of Accumulator L 3 Noise level dB(A) 59 Type of Four way valve SHF-4-10A material of reduce noise XPE Weight (Net / Shipping) kg / kg 80/90 Refrigerant Type / Charge g R22/3150 Refrigerant Gas mm φ9.52 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30		Fan	•				
Dimension External (LxWxH) mmxmmxmm 1008x830x480 Package (LxWxH) mmxmmxmm 1130x930x490 Package (LxWxH) mmxmmxmm 1130x930x490 Package (LxWxH) mmxmmxmm 1130x930x490 PVC 26/32 PVC 26/32	±			ower			
Dimension External (LxWxH) mmxmmxmm 1008x830x480 Package (LxWxH) mmxmmxmm 1130x930x490 Package (LxWxH) mmxmmxmm 1130x930x490 Package (LxWxH) mmxmmxmm 1130x930x490 PVC 26/32 PVC 26/32	ū				m³/h		
Dimension External (LxWxH) mmxmmxmm 1008x830x480 Package (LxWxH) mmxmmxmm 1130x930x490 Package (LxWxH) mmxmmxmm 1130x930x490 Package (LxWxH) mmxmmxmm 1130x930x490 PVC 26/32 PVC 26/32	or				mm		
Dimension External (LxWxH) mmxmmxmm 1008x830x480 Package (LxWxH) mmxmmxmm 1130x930x490 Package (LxWxH) mmxmmxmm 1130x930x490 Package (LxWxH) mmxmmxmm 1130x930x490 PVC 26/32 PVC 26/32	tdc	Heat exchanger	•				
Differsion Package (LxWxH) mmxmmxmm 1130x930x490	On						
Package (LxWxH) mmxmmxmm 1130x930x490		Dimension					
Refrigerant control method mm/mm Capillary Defrosting Automatic Volume of Accumulator L 3 Noise level dB(A) 59 Type of Four way valve SHF-4-10A material of reduce noise XPE Weight (Net / Shipping) kg / kg 80/90 Refrigerant Type / Charge g R22/3150 Recharge quantity g/m 65 Pipe Liquid mm φ9.52 Gas mm φ19.05 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30				(LxWxH)			
Defrosting		0 1 1 1					
Volume of Accumulator L 3 Noise level dB(A) 59 Type of Four way valve SHF-4-10A material of reduce noise XPE Weight (Net / Shipping) kg / kg 80/90 Refrigerant Type / Charge g R22/3150 Recharge quantity g/m 65 Pipe Liquid mm φ9.52 Gas mm φ19.05 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30			d		mm/mm		,
Noise level dB(A) 59 Type of Four way valve SHF-4-10A material of reduce noise XPE Weight (Net / Shipping) kg / kg 80/90 Refrigerant Type / Charge g R22/3150 Recharge quantity g/m 65 Pipe Liquid mm			T	ı			
Type of Four way valve							
material of reduce noise XPE Weight (Net / Shipping) kg / kg 80/90 Refrigerant Type / Charge g R22/3150 Recharge quantity g/m 65 Pipe Liquid mm φ9.52 Gas mm φ19.05 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30					dB(A)		
Weight (Net / Shipping) kg / kg 80/90 Refrigerant Type / Charge g R22/3150 Recharge quantity g/m 65 Pipe Liquid mm φ9.52 Gas mm φ19.05 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30			T	1			
Refrigerant Type / Charge Recharge g R22/3150 O Z a a charge quantity g/m 65 Pipe Liquid mm φ9.52 Gas mm φ19.05 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30				<u> </u>			
Reinigerant Recharge quantity g/m 65 O Z G D D D D D D D D D D D D D D D D D D		Weight (Net / Ship		ı	kg / kg		
O Z D Z D Z D Z D Z D Z D Z D Z D Z D Z		Refrigerant					
Retween LD & O.D. MAX.Drop m 30			,		g/m		
Retween LD & O.D. MAX.Drop m 30	9	Pine	•		mm		
Retween LD & O.D. MAX.Drop m 30	뮵	·	Gas		mm		
	₫	Connecting Method					
MAX.Piping length m 50		Between LD &O D					
	1		MAX.Piping length	l	m	5	0



item			Mode	اد	HRI I-/	I2CI03
Functi	on		IVIOU	51	cooling	heating
				BTU/h	41000	Tieating
Capac	,			kW	12	
Capac	oower input			W		
				W	4500 5500	
	oower input					
	or COP			W/W	2.67	
	midifying capacity			10 - 3xm3/h		.5
	rcable			section	5G*2.	
	cable			section	4G*0.7	'5mm2
	ecting cable			section		
	source			N, V, Hz	3 N \sim 380-4	
	ng /Max.Running current			A/A	7.2	
	Current			Α		0
	t breaker			Α	30	
	operating pressure of heat			Мра	2.8	
Max.	operating pressure of cold	side		Мра	0.8	
	Unit model (color)				HBU-42CI	,
		Type x Number			Centrifu	
	Fan	Speed(H-M-L)		r/min	680±30/600	±40/530±40
	1 411	Fan motor output p	oower	kW		053
	L	Air-flow(H-M-L)		m³/h		00
	·	Type / Diameter		mm	TP2	PM/7
+	Heat exchanger	Total Area		m²	0.	46
Indoor unit		Temp. scope		$^{\circ}\!\mathbb{C}$	2-	
ō	i ·	External	(LxWxH)	mm×mm×mm	840×8	40×290
용	Dimension	Package	(LxWxH)			25×390
드	Air sending angle		<u> </u>			2°
	Drainage pipe (material,	ID/OD)		mm	PVC	
		wired /model)				
	Fresh air hole dimension	Wired /iniodelj		mm	Remote φ69	
	Outlet distribution hole din	nension		mm	560*55/410*55/340*55/400*55	
	Noise level (H-M-L)	Hension		dB(A)	51/48/45	
	Weight (Net / Ship	nina)		kg / kg		/42
	weight (Net / Ship	,	(1			50×60
Panel	Dimension	External	(LxWxH)			
Pa	Maight (Not / Chin	Package	(LXWXH)	mm×mm×mm		85×115
	Weight (Net / Ship	ping)	1	kg / kg	HBU-42CI	/9
					DBU-4/UI	1.3(VVHITE)
	Unit model (color)	NA 1 1 / NA 6 4	l			,
	Unit model (color)	Model / Manufactu	re		503DH-800	C2/HITACHI
	Unit model (color)	Oil model	re		503DH-800 4G	C2/HITACHI SD
	,	Oil model Oil charging	re		503DH-800 4G 180	C2/HITACHI SD Oml
	Compressor	Oil model Oil charging Type	re		503DH-800 4G 180 Sc	C2/HITACHI SD
	,	Oil model Oil charging Type Protection type	re		503DH-800 4G 180 So inner thermal protection	C2/HITACHI SD Oml
	,	Oil model Oil charging Type Protection type Starting method	re		503DH-800 4G 180 So inner thermal protection Direct Start	C2/HITACHI SD Oml croll Type / /
	,	Oil model Oil charging Type Protection type Starting method Type × Number	re		503DH-800 4G 180 So inner thermal protection Direct Start Axia	C2/HITACHI SD 0ml croll Type / /
	Compressor	Oil model Oil charging Type Protection type Starting method Type x Number Speed		r/min	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 /	CZ/HITACHI SD OMI croll Type / / I × 2 / 540±30
	,	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p		r/min kW	503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1	C2/HITACHI SD Oml Croll Type / / I x 2 540±30 56
unit	Compressor	Oil model Oil charging Type Protection type Starting method Type x Number Speed			503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1	22/HITACHI SD 0ml croll Type / / I × 2 540±30 56 00
or unit	Compressor	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p		kW	503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1	C2/HITACHI SD Oml Croll Type / / I x 2 540±30 56
door unit	Compressor	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter		kW m³/h	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple	22/HITACHI SD 0ml croll Type / / I × 2 540±30 56 00
Outdoor unit	Compressor	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch		kW m³/h	503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple	C2/HITACHI SD Oml Oroll Type / / I × 2 / 540±30 .56 00 e slit fin* φ9.52 1.7
Outdoor unit	Compressor Fan Heat exchanger	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope	Dower	kW m³/h mm	503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/	C2/HITACHI SD Oml Oroll Type / / I × 2 / 540±30 .56 .00 e slit fin* φ9.52 /1.7 -60
Outdoor unit	Compressor	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External	oower (LxWxH)	kW m³/h mm	503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9	22/HITACHI SD 0ml croll Type / / I × 2 / 540±30 -56 -00 e slit fin* φ9.52 1.7 -60 -60×380
Outdoor unit	Compressor Fan Heat exchanger Dimension	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	Dower	kW m³/h mm °C mm×mm×mm mm×mm×mm	503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10	22/HITACHI SD 0ml croll Type / / / I × 2 / 540±30 /56 00 e slit fin* φ9.52 /1.7 -60 60×380 080×440
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material)	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm	503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10	22/HITACHI SD 0ml croll Type / / / I × 2 / 540±30 /56 00 e slit fin* φ9.52 /1.7 -60 60×380 080×440 26/32
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method)	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mm×mm×mm mm×mm×mm	503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap	22/HITACHI SD 0ml croll Type / I × 2 540±30 -56 -60 -60 silt fin* φ9.52 -1.7 -60 -60×380 -080×440 -26/32
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting)	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm	503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43: 1225×9 1370×10 PVC Cap Autol	22/HITACHI SD 0ml croll Type / I × 2 540±30 -56 -60 -60 se slit fin* φ9.52 -1.7 -60 -60×380 -080×440 -26/32
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L	503DH-800 4G 180 Sc inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Autor	22/HITACHI SD 0ml croll Type / I × 2 540±30 -56 -60 -60 -60×380 -60
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Auto	C2/HITACHI SD Oml Oml croll Type / I × 2 540±30 56 00 e slit fin* φ9.52 1.7 -60 60×380 080×440 26/32 iillary matic 3 9
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control methodological) Polymer of Accumulator Noise level Type of Four way valve	Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.)	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Auto	C2/HITACHI SD Oml Oml croll Type / I × 2 540±30 56 00 e slit fin* φ9.52 1.7 -60 60×380 080×440 26/32 iillary matic 3 9 4-10A
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A)	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Auto	C2/HITACHI SD Oml Oml croll Type / I × 2 540±30 56 00 e slit fin* φ9.52 1.7 -60 60×380 080×440 26/32 iillary matic 3 9 4-10A PE
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control methodological) Polymer of Accumulator Noise level Type of Four way valve	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	oower (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A)	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×16 PVC Cap Auto 5 SHF XI 89/	C2/HITACHI SD 0ml croll Type / I × 2 / 540±30 56 00 e slit fin* φ9.52 1.7 -60 60×380 080×440 26/32 illary matic 3 9 4-10A PE 114
Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	Dower (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A)	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Auto 5 SHF- XF 89/ R22/	C2/HITACHI SD Oml Oml croll Type / I × 2 / 540±30 56 00 e slit fin* φ9.52 /1.7 -60 60×380 080×440 26/32 illary matic 3 9 4-10A PE 114 3800
	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control methodology) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	Dower (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) kg / kg g g/m	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Autor SHF- XI 89/ R22/	C2/HITACHI SD Oml Oml croll Type / / 1 × 2 / 540±30 56 00 e slit fin* φ9.52 1.7 -60 60×380 080×440 26/32 illary matic 3 9 4-10A PE 114 3800 5
	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship Refrigerant	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	Dower (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) kg / kg g g/m mm	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Autor SHF- XF 89/ R22/ 6	C2/HITACHI SD Oml Oml Croll Type / / 1 × 2 / 540±30 56 00 e slit fin* φ9.52 1.7 -60 60×380 080×440 26/32 illary matic 3 9 4-10A PE 114 3800 5 1.52
	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control methodology) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship Refrigerant)	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d	Dower (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) kg / kg g g/m	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Autoi 55 SHF- XI 89/ R22/ 66	C2/HITACHI SD Oml Oml Croll Type / / / I × 2 / 540±30 56 00 e slit fin* φ9.52 1.7 -60 60×380 080×440 26/32 illary matic 3 9 4-10A PE 114 3800 5 .52 0.05
PIPING Outdoor unit	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control method Defrosting) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship Refrigerant	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d pping) Type / Charge Recharge quantity Liquid Gas	Dower (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) kg / kg g g/m mm	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Autor SHF- XR 89/ R22/ 6 99 915	C2/HITACHI SD Oml Oml Croll Type / / I × 2 / 540±30 56 00 e slit fin* φ9.52 1.7 -60 60×380 080×440 26/32 illary matic 3 9 4-10A PE 114 3800 5 .52 0.05 red
	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control methodology) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship) Refrigerant Pipe Connecting Method	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d pping) Type / Charge Recharge quantity Liquid Gas MAX.Drop	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) kg / kg g g/m mm	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Autor SHF- XF 89/ R22/ 6 99 915 Fla	C2/HITACHI SD Oml Oml Croll Type / / 1 × 2 / 540±30 56 00 es slit fin* φ9.52 1.7 -60 60×380 080×440 26/32 illary matic 3 9 4-10A PE 114 3800 5 .52 0.05 red 0
	Compressor Fan Heat exchanger Dimension Drainage pipe (material, Refrigerant control methodology) Volume of Accumulator Noise level Type of Four way valve material of reduce noise Weight (Net / Ship Refrigerant)	Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output p Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package I.D./O.D.) d pping) Type / Charge Recharge quantity Liquid Gas	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) kg / kg g g/m mm mm	503DH-800 4G 180 So inner thermal protection Direct Start Axia 840±30 / 0.1 60 photic foil ripple 25/ 43 1225×9 1370×10 PVC Cap Autor SHF- XF 89/ R22/ 6 99 915 Fla	C2/HITACHI SD Oml Oml Croll Type / / I × 2 / 540±30 56 00 e slit fin* φ9.52 1.7 -60 60×380 080×440 26/32 illary matic 3 9 4-10A PE 114 3800 5 .52 0.05 red



<u> </u>					LIBIL	4011100
item		1	Mod	ei I		42HI03
Funct				DTII/I-	cooling 41000	heating 44000
Capa	,			BTU/h		
Capa				kW	12 4500	13 4700
	power input power input			W	5500	5300
	or COP			W/W	2.67	2.77
	midifying capacity			10 - 3×m3/h		
	r cable					4.5 .5mm2
				section		.5111112 75mm2
	l cable ecting cable			section	4G 0.	75111112
	ecting cable r source			section N, V, Hz	201 200	400V 50Hz
	ing /Max.Running current			A / A		400V 50Hz 3/8.8
	Current	1		A/A		60
	it breaker			A	30	50 T
	operating pressure of heat	sida		Mpa		<u>1</u> 2.8
	operating pressure of cold			Мра		2.8
IVIAA.	Unit model (color)	l		Ινίρα		I03(WHITE)
	Offic frioder (color)	Type × Number				iugal × 1
		Speed(H-M-L)		r/min)±40 /530±40
	Fan	Fan motor output	nower	kW		053
		Air-flow(H-M-L)		m³/h		550
		Type / Diameter		mm		2M/7
1	Heat exchanger	Total Area		m ²		.46
Indoor unit	rieat exchanger	Temp. scope		℃		<u>.40 </u>
] .		External	(LxWxH)	mm×mm×mm		340×290
၂ ဓိ	Dimension	Package		mm×mm×mm		925×390
=	Air sending angle	rachago	(LAWAII)			52°
	Drainage pipe (material,	LD./Q.D.)		mm		26/32
	Control type (Remote /					mote
	Fresh air hole dimension			mm		069
	Outlet distribution hole dir	mension		mm		5/340*55/400*55
	Noise level (H-M-L)		ı	dB(A)		48/45
	Weight (Net / Ship	ping)		kg/kg		3/42
		External	(LxWxH)	mm×mm×mm	950×	950×60
Panel	Dimension	Package		mm×mm×mm	985×9	985×115
۵	Weight (Net / Ship	pping)		kg / kg	(6/9
	Unit model (color)				HBU-42H	I03(WHITE)
		Model / Manufactu	ire		503DH-80	C2/HITACHI
		Oil model			40	GSD
	Compressor	Oil charging			18	00ml
	Compressor	Type			S	croll Type
		Protection type			inner thermal protection	inner thermal protection
		Starting method			Direct Start	Direct Start
		Type × Number			Axi	al x 2
	Fan	Speed		r/min		/ 540±30
	1 3.1	Fan motor output	power	kW		.06
nit		Air-flow(H-M-L)		m³/h		000
Outdoor unit	l	Type / Diameter		mm		le slit fin* φ9.52
pop	Heat exchanger	Row / Fin pitch				5/1.7
)ut		Temp. scope	,	$^{\circ}$		3-60
	Dimension	External	(LxWxH)			960×380
		Package	(LxWxH)			080×440
	Drainage pipe (material,			mm		26/32
	Refrigerant control metho	d		mm/mm		oillary
	Defrosting	1	1	1		omatic
	Volume of Accumulator Noise level			T T		3
		<u> </u>	<u> </u>	dB(A)		59 -4-10A
	Type of Four way valve		I			PE
	material of reduce noise			۱۸/		
	material of reduce noise crankcase heater power	oning)		W kg/kg		33
	material of reduce noise			kg / kg	91	33 /116
	material of reduce noise crankcase heater power	Type / Charge		kg / kg g	91 R22	33 /116 //4000
(2)	material of reduce noise crankcase heater power Weight (Net / Shi Refrigerant	Type / Charge Recharge quantity		kg / kg g g/m	91 R22	33 /116 /4000 65
9NI-	material of reduce noise crankcase heater power Weight (Net / Shi	Type / Charge Recharge quantity Liquid		kg / kg g g/m mm	91 R22 φ	33 /116 /4000 65 9.52
SNIAIC	material of reduce noise crankcase heater power Weight (Net / Shi Refrigerant	Type / Charge Recharge quantity		kg / kg g g/m	91 R22 φ φ	33 /116 /4000 65 9.52 9.05
PIPING	material of reduce noise crankcase heater power Weight (Net / Shi Refrigerant Pipe Connecting Method	Type / Charge Recharge quantity Liquid Gas		kg / kg g g/m mm mm	91 R22 Ф Ф1 Fl:	33 /116 /4000 65 9.52 9.05 ared
PIPING	material of reduce noise crankcase heater power Weight (Net / Shi Refrigerant	Type / Charge Recharge quantity Liquid		kg / kg g g/m mm	91 R22 φ φ 1 Fl	33 /116 /4000 65 9.52 9.05

Norminal condition: indoor temperature (cooling): 27°CDB/19°CWB, indoor temperature (heating): 20°CDB

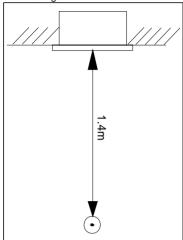
Outdoor temperature(cooling): 35°C DB/24°CWB, outdoor temperature(heating): 7°C DB/6°CWB

The noise level will be measured in the third octave band limited values, using a Real Time Analyser calibrated sound intensity meter. It is a sound pressure noise level. The detailed method please refer to the following information:



Installation state: the unit should be placed on the flat floor or be mounted in horizontal direction. Testing method:

built-in-ceiling unit:

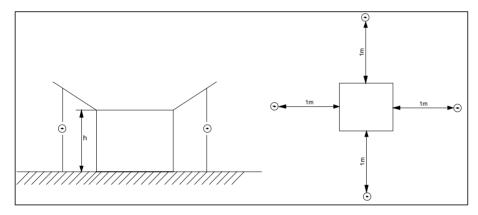


outdoor unit

1.air outlet from side: the noise level is the average sound pressure level measured from front, left, right directions.

2.air outlet from top: the noise level is the average sound pressure level measured from front, back, left, right directions. measured point:

H (height to the ground) = (h (unit height) + 1m) /2 and, it is 1m to each side.

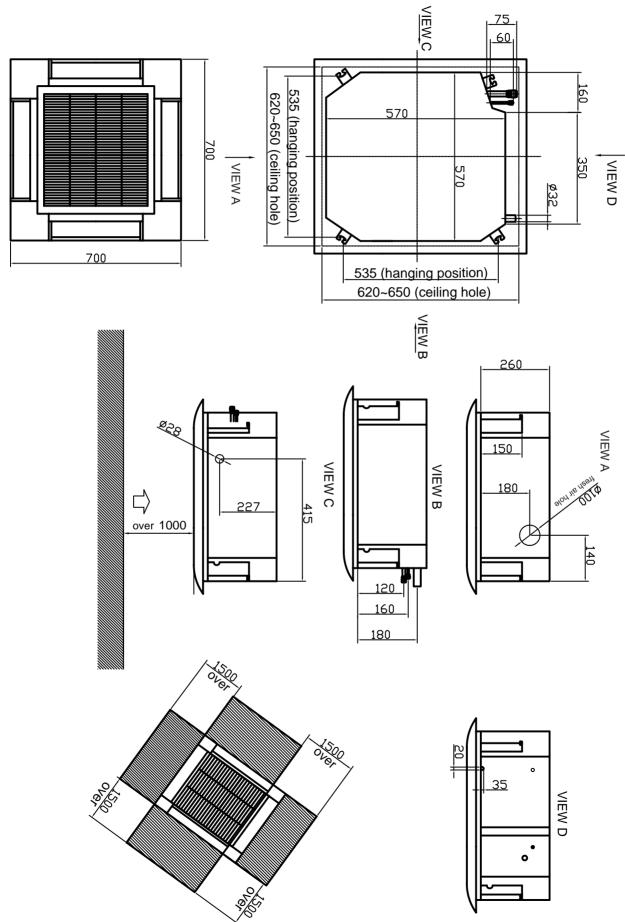


Note: ⊙ is the real time analyser position



3. Dimension

3.1 HBU-18CF03, HBU-18HF03 (used for the unit with PB-700IA panel)

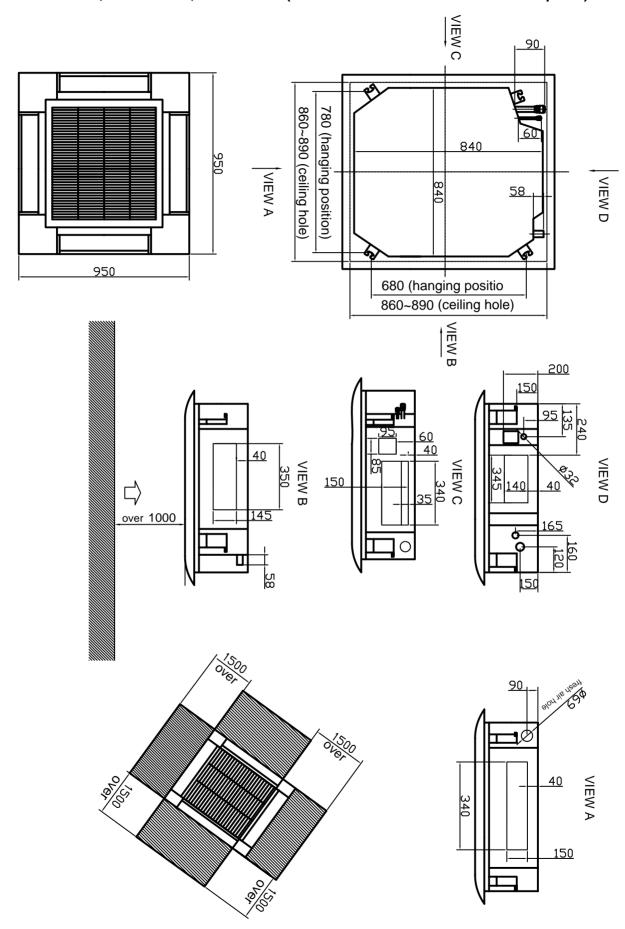




Dimension 3.2 HBU-28/42CF03, HBU-28/42HF03(with PB-950IA panel), HBU-28CH03 and HBU-28HH03 (with PB-950JA panel) VIEW C 160 860~890 (ceiling hole) 740 (hanging position) 840 VIEW A VIEW D <u>58</u> 950 740 (hanging position) 860~890 (ceiling hole) VIEW B VIEW D <u>100</u> 30 VIEW C 80 VIEW B \Box 100 over 1000 120 290 30 VIEW A



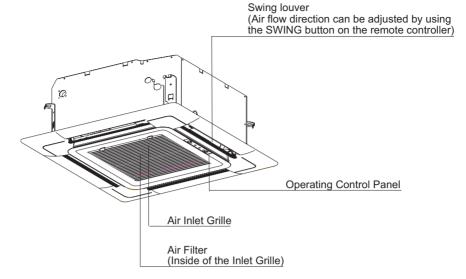
3.3 HBU-42CH03, HBU-42Cl03, HBU-42Hl03 (used for the unit with new PB-950JA panel)



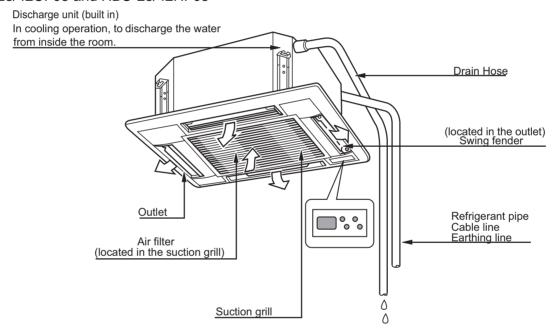


4. Part name

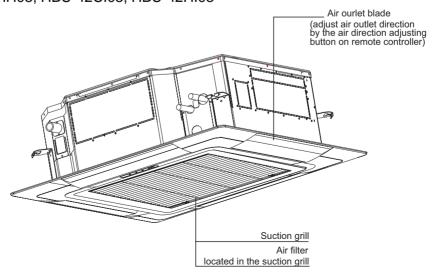
For HBU-18CF03, HBU-18HF03



For HBU-28/42CF03 and HBU-28/42HF03



HBU-28/42CH03, HBU-28HH03, HBU-42Cl03, HBU-42Hl03





5. Installation

CAUTIONS:

To ensure proper installation, read "Cautions" carefully before working. After installation, start the unit correctly and show customers how to operate and maintain the unit.

Meanings of Warning and Cautions:

Warning! Serious injury or even death might happen, if it is not observed. Caution! Injury to people of damages to machine might happen, if it is not observed.

WARNING!

- Installation shall be done by professional people, don't install unit by yourself. Incorrect installation will cause water leakage, electric shock or fire.
- Install unit as per the Manual. Incorrect installation will cause water leakage, electric shock or fire accident.
- Be sure to use specified accessaries and parts. Otherwise, water leakage, electric shock, fire accident or unit falling down may happen.
- Unit should be placed on a place strong enough to hold the unit. Or, unit will fall down causing injuries.
- When install the unit, take in consideration of storms, typhoom, earthquake. Incorrect installation may cause unit to fall down.
- All electric work shall be done by experienced people as per eocal code, regulations and this Manual.
- Use exclusive wire for the unit. Incorrect installation or undersized electric wire may cause electric shock or fire accident.
- All the wires and circuit shall be safe. Use exclusive wire firmly fixed. Be sure that external force will not affect terminal bolck and electric wire. Poor contact and installation may cause fire accident.
- Arrange wire correctly when connectin indoor and outdoor power supply. Fix terminal cover firmly to avoid overheat, electric shock or even fire accident.
- In case retrigerant leakage occurred during unit installation, keep a good ventilation in the room.
- Poisonous gas will occur when meet with fire.
- Check the unit upon installation. Be sure there is no leakage. Refrigerant will induce poisonous gas when meet heat source as heater, oven, etc.
- Cut power supply before touching terminal bolck.

CAUTION!

• Unit shall be grounded. But grounding shall not be connected to gas pipe water pipe, telephone line. Poor grounding will cause electric shock.



• Be sure to install a leakage breaker to avoid electric shock.

Earthing

- Arrange water drainage according to this Manual. Cover pipe with insulation materials in case dew may occur. Unproper installation of water drainage will cause water leakage and wer your furniture.
- To maintain good picture or reduce noise, keep at least 1 m from T.V. radio, when install indoor and ou tdoor unit, connecting wire and power line. (If the radio wave is relatively strong, 1 m is not enough to reduce noise).
- Don't install unit in following places:
 - (a) Oil mist or oil gas exists, such as kitchen, or, plastic parts may got aged, or water leakage.
 - (b) Where there is corrosive gas. Copper tube and welded part may be damaged due to corrosion, causing leakage.
 - (c) Where there is strong radiation. This will affect unit's control system, causing malfunction of the unit
 - (d) Where flamable gas, dirt, and volatile matter (thinner, gasoline) exist, These matter might cause fire accident.
- Refer to paper pattern when installing unit.

Cautions for the installation personnel

Don't fail to show customers how to operate unit.



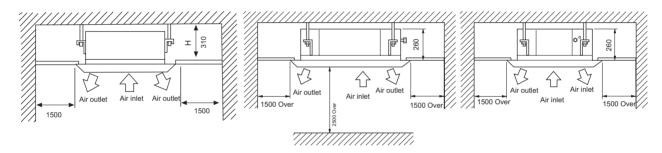
Before installation <Don't discard any accessories until comp>

- Determine the way to carry unit to installation place.
- Don't remove packing until unit reaches installation place.
- If unpacking is unkavoidable, protect unit properly.

Selection of installation place

- (1) Installation place shall meet the following and agreed by customers:
- Place where proper air flow can be ensured.
- No block to air flow.
- Water drainage is smpoth.
- Place strong enough to support unit weight.
- Place where inclination is not evident on ceiling.
- Enough space for mainenance.
- Indoor and outdoor unit piping length is within limit. (Refer to Installation Manual for outdoor unit.)
- Indoor and outdoor unit, power cable, inter unit cable are at least 1 m away from T.V. radop. This is helpful to avoid picture disturbance and noise. (Even if 1 m iskept, noise can still appear if radio wave is strong)
- (2) Ceiling height
 - Indoor unit can be installed on ceiling of 2.5-3m in height. (Refer to Foeld setting and Installation Manual of ornament panel.)
- (3) Install suspending bolt. Check if the installation place is strong enough to hold weight. Take necessary measures in case it is not safe. (Distance between holes are marked on paper pattern. Refer to paper pattern for place need be reinforced)

Installation space



Preparation for the installation

(1) Position of ceiling opening between unit and suspending bolt.

Please refer to the dimension part.

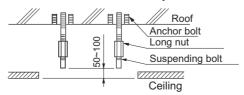
- (2) Cut an opening in ceiling for installation if necessary. (when ceiling already exists.)
 - Refer to paper pattern for dimension of ceiling hole.
 - Connect all pipings (refrigerant, water drainage), wirings (inter unit cable) to indoor unit, before installation.
 - Cut a hole in ceiling, may be a frame should be used to ensure a smooth surface and to prevent vibration.
 Contact your real estate dealer
- (3) Install a suspending bolt.

(Use a M10 bolt)

To support the unit weight, anchor bolt shall be used in the case of already exists ceiling. For new ceiling, use built-in type bolt or parts prepared in the field.

Before going on installing adjust space between ceiling.

<Installation example>



Note: All the above mentioned parts shall be prepared in field.



Installation of indoor unit

In the case of new ceiling

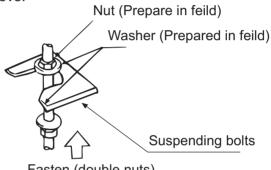
- (1) Install unit temporally
 - Put suspending bracket on the suspending bolt. Be sure to use nut and washer at both ends of the bracket.
- (2) As for the dimensions of ceiling hole, see paper pattern. Ask your real estate dealer for details.
 - Center of the hole is marked on the paper pattern.
 - Center of the unit is marked on the card in the unit and on the paper pattern.
 - Mount paper pattern 5 onto unit using 3 screws 6. Fix the corner of the drain pan at piping outlet.

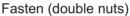
< After installation on the ceiling >

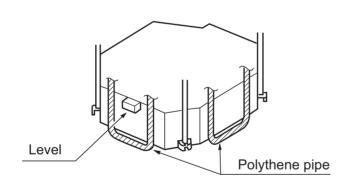
- (3) Adjust unit to its right position. (Refer to preparation for the installation-(1))
- (4) Check unit's horizontal level.
 - Watert pump and flating switch is installed inside indoor unit, check four corners of the unit for its level using horizontal compartor or PVC tube with water. (If unit is tilting against the direction of water drainage, problem may occur on floating switch, causing water leakage.)
- (5) Remove the washer mounlting (2), and tighten the nut above.
- (6) Remove the paper pattern.

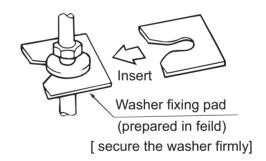
In the case of ceiling already exists

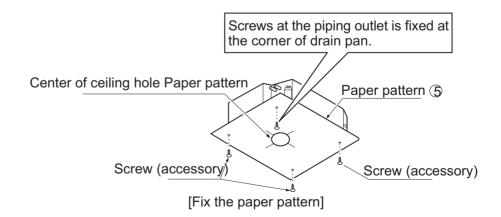
- (1) Install unit temporally
 - Put suspending bracket on the suspending bolt. Be sure to use nut and washer at both ends of the bracket. Fix the bracket firmly.
- (2) Adjust the height and position of the unit. (Refer to preparation for the installation (1)).
- (3) Proceed with "In the case of new ceiling".







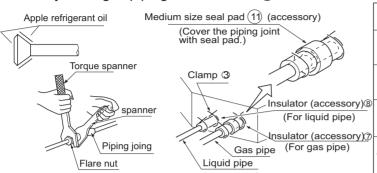






Refrigerant piping (As for outdoor piping, please refer to installation of outdoor unit)

- Outdoor is precharged with refrigerant.
- Be sure to see the Fig.1, when connecting and removing piping from unit.
- For the size of the flare nut, please refer to Table 1.
- Apply refrigerant oil at both inside and outsid of Iflare nut. Tighten it band tight 3-4 turns then tighten it.
- Use torque specified in Table 1. (Too much force may damage flare nut, causing gas leakage).
- Check piping joints for gas leakage. Insulate piping as shown in Fig. below.
- Cover joint of gas piping and insulator (7) with seal.

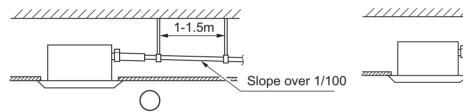


	rabie	1		
	Pipe size	Tighten torque	A(mm)	Flare shape
	Φ6.35	1420~1720N·cm (144~176kgf·cm)	8.3~8.7	
	Φ9.52	3270~3990N.cm (333~407kgf.cm)	12.0~12.4	/ 10.4 0.0
8	Ф15.88	6180~7540N·cm (630~770kgf·cm)	18.6~19.0	+1 - 1-1 +
D	Ф19.05	9720~11860N·cm (990~1210kgf·cm)	22.9~23.3	Y

Installation of water drainage pipe

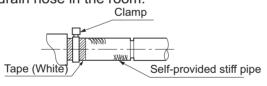
(1) Install water drainage pipe

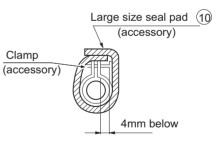
- Pipe dia, shall be equal or larger than that of unit piping.(pipe of polyethylent; size: 25mm; O.D:32mm)
- Drain pipe should be short, with a downward slope at least 1/100 to prevent air bag from happening.
- If downward slope can't be made, take other measures to lift it up.
- Keep a distance of 1-1.5m between suspending brackets, to make water hose straight.



Use the self-provided stiff pipe and clamp ① with unit. Insert water pipe into water plug until it reaches
the white tape. Tighten the clip until head of the screw is less than 4mm from hose.

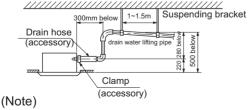
Wind the drain hose to the clip using seal pad (9).
 Insulate drain hose in the room.

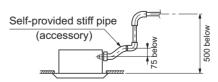




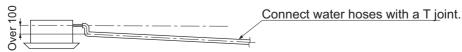
<Cautions for the drain water lifting pipe>

- Installation height shall be less than 280mm.
- There should be a right angle with unit, 300mm from unit.





- The slope of water drain hose (1) shall be within 75mm, don't apply too much force on it.
- If several water hoses join together, do as per following proceedures.



Specifications of the water hoses shall meet the requirements for the unit running.



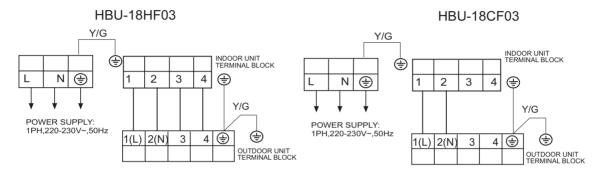
- (2) Check if water drainage is smooth after installation.
- Charge, through air outlet or inspecting hole, 1200cc water to see water drainage.

For serise 18

WIRING

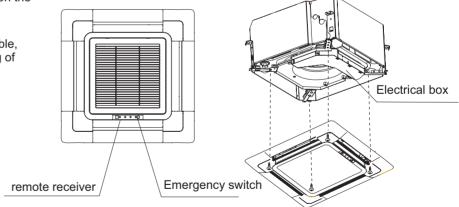
- All supplied parts. materials and wiring operation must in appliance with local code and regulations. Use copper wire only.
- When make wiring, please refer to wiring diagram also. All wiring work must be done by qualified electricians.
- A circuit breaker must be installed, which can cut power supply to all system.
- Connecting of unit
- Remove cover of control box, connect wires of correct pole to the terminal block inside, please connect the wires in right way.
- Upon connecting, replace control box cover and inlet grill .

Note: remember to connect the blue terminal of indoor unit with the white terminal of outdoor unit properly using the connecting wire in the accessory bag (For heat pump model). Otherwise the "Run" light on indoor remote receiver will flash four time.



Installation of ornament panel

- Check if the indoor unit is horizontal with level apparatus, and also check if the size of ceiling opening is right. Remember to take off the level apparatus before installation.
- Fix the ornament panel onto the indoor unit temporarily with two screws,make sure that the height difference of the indoor unit's two sides should be no more than 5mm.
- Screw other two screws and tighten all of the four screws to fix up the ornamnet panel.
- Connect the wires of swing flap motor on the ornament panel.
- Connect the signal wires.
- Check if the remote controlling is avalible, if not,please check if all the connecting of wires is right. Turn off the power for ten seconds, and then try it again.



For serise 28, 42

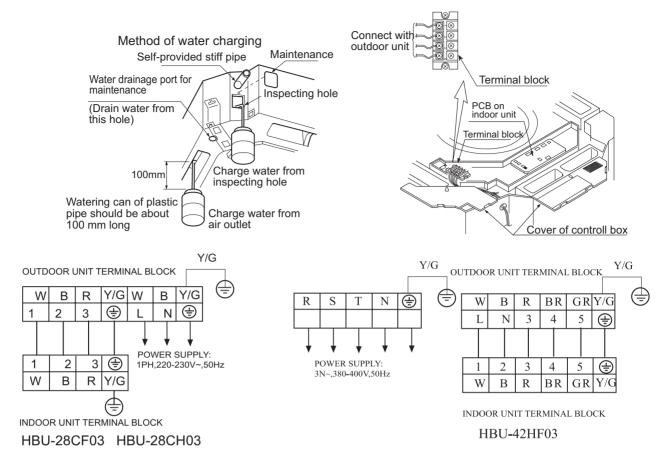
After wiring

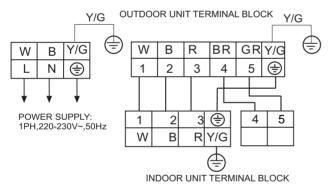
Check water drainage in cooling operation.

When wiring is not complete

- Remove cover of control box, connect 1PH power to terminal 1 and 2 on terminal block, use remote controller to operate the unit.
- Note, in this operation, fan will be running.
- Upon confirmation of a smooth water drainage, be sure to cut off power supply.

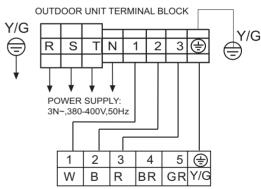






HBU-28HF03 HBU-28HH03

NOTE: L, N and 1, 2 are equal on the terminal block.



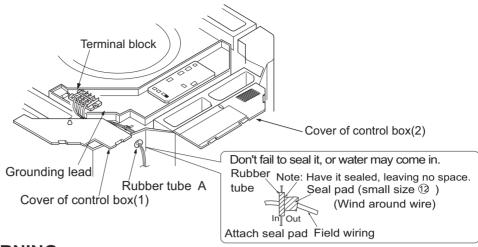
INDOOR UNIT TERMINAL BLOCK

HBU-42CF03 HBU-42CI03 HBU-42CH03 HBU-42HI03

Wiring

- All supplied parts. materials and wiring operation must in appliance with local code and regulations.
- Use copper wire only.
- When make wiring, please refer to wiring diagram also.
- All wiring work must be done by qualified electricians.
- A circuit breaker must be installed, which can cut power supply to all system.
- See Installation Manual of outdoor unit for specifications of wires, circuit breaker, switches and wiring etc.
- Connecting of unit
 - Remove cover of switch box (1), drag wires into rubber tube A, then, after proper wiring with other wires, tighten clamp A. Connect wires of correct pole to the terminal block inside.
- Wind seal (12) around wires. (Be sure to do that, or, dew may occur).
- Upon connecting, replace control box cover (1) and (2).





<<WARNING>>

Obscrve the following when connecting power supply terminal block:

Don't connect wires of different specifications to the same terminal block.

(Loose wire may cause overheating of circuit)

Connect wires of same specifications as shown in right Fig.

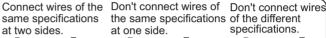






Fig. 1

Wiring example

As for outdoor unit circuit, please see Installation Manual of outdoor unit.

Note: All electric wires have their own poles, poles must match that on terminal block.

Installation of ornament panel

Cautions for the installation

 Be sure to show customers Operation Manual and guide them how to operate unit correctly. Before installation. read also the Installation Manual of indoor unit.

• With this ornament, 2 or 3 air flow direction is not available. Suitable height is 3 m.



1. Prepare ornament panel Handling of ornament panel

- Ornament panel shall not be placed face down or against wall, neither on an uneven object.
- Don't bend carelessly the swing flap, or, problem may occur.

(1) Remove air inlet grill from ornament panel:

- 1 Push in the bar on inlet grill and lift it up. (Refer to Fig. 1)
- ② Lift it up for about 45 degree and remove it from ornament. Tear off adhesive tape fixing air filter on the back of the air inlet grill. (Refer to Fig. 2)
- (2) Remove cover plate at corner
 Tear off the adhesive tape, and slide it off. (Refer to Fig. 3)

2. Mounting on high ceiling

- (1) Ornament panel can be mounted on ceiling as high as 3 m.
- (2) Please install pad as accessary.
- ① Cut open the pad along cutting ling. Use part ② only and discard part ⑤. (Refer to Fig. 4)
- (2) Install part a of the pad on the place shown in Fig. 5. Refer to Fig. 6.

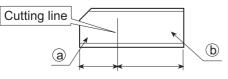
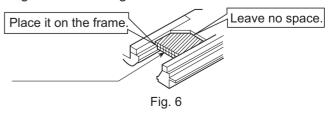
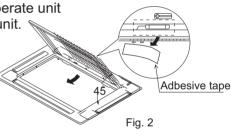


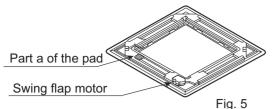
Fig. 4





Bar

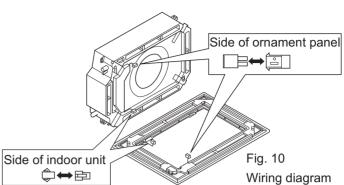




(3)Wiring on ornament panel

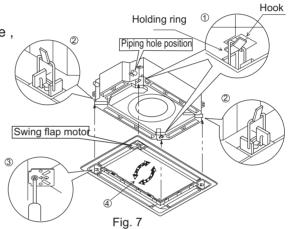
Connecting of wiring of the swing
flap motor on ornament panel. (2 places)
(Refer to Fit . 10)

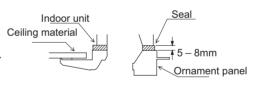
If connecting is not made, error code (A7) appears on remote controller. So, make proper connecting.



3. Install ornament panel on indoor unit.

- (1) As shown in Fig.7,match the position of swing flap motor with that of the indoor unit piping hole, so that ormament panel can be placed on to indoor unit.
- (2) Installation of ornament panel
- ① Place the holding ring on swing flao motor side teporarily on hooks of the indoor unit. (2 pcs)
- ② Put the other two holding rings on the hooks at both side of the indoor unit. (Care should be taken not to push wiring of swing flap motor into seals).
- ③ Screw in all 4 screws under holding ring for about 15mm. (Pancl will rise).
- 4 Adjust the ornament panel as per Fig. 7 to cover opening on the ceiling.
- ⑤ Tighten screws to redrce the thickness of seals between ornament and indoor unit to 5-8mm.



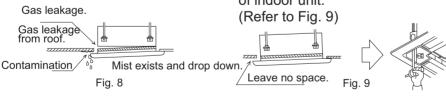


Caution

If screws are not tighten tight, problems in Fig, 8 might occur. Tighten screws properly.

If there are still space after tightening of screws, please readjust the height of indoor unit.

If indoor unit is at horizontal level and water drainage is smooth, then, indoor unit height can be adjusted throrgh holes at corners of ornament panel.



4. Installation of inlet grill and cover plate

(1) Installation of inlet grill

Install in reversed order of "Prepare ornament pandl".

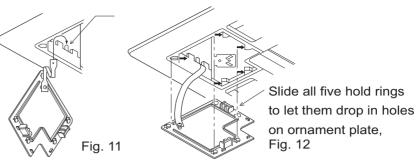
Inlet grill can be adjusted into four directions by turning inlet grill. Inlet grill position can be adjusted as per customers request.

When installing inlet grill, take care not to twist wiring of swing flap motor.



(2) Install cover plate on the corner

- ① As shown in Fig. 11 tie the cover plate onto the bolt on ornament plate.
- ② Install cover plate onto ornament plate.
 (Refer to Fig. 12)



Pay special care to the following and check after installation

Item to the checked	Unproper installation may cause	Check
Is indoor unit firmly installed?	Unit might fall down, make vibration or noise.	
Is gas leakage check performed?	This may lead to gas shortage.	
Is unit properly insulated?	Dew or water drop may occur.	
Is water drainage smooth?	Dew or water drop may occur.	
Is power voltage meet that stipulated on the nameplate?	Problem may occur or parts got burned.	
Is wiring and piping correctly arranged?	Problem may occur or parts got burned.	
Is unit safely grounded?	There might be a danger of electric shock.	
Is wire size correct?	Problem may occur or parts got burned.	
Are there any obstacles on air inlet and outlet grill of indoor and outdoor unit?	This may cause poor cooling.	
Is record made for piping length and refrigerant charging amount?	It is hard to control refrigerant charging amount.	

ATTENTION: after finishing installation, confirm no refrigerant leakage.



Convertible indoor unit (HCFU-18~HCFU-42)

1. Features	38
2. Specifications	40
3. Dimensions	49
4. Part name	51
5. Installation	52
5.1 For series28	52
5.2 For series 42	58



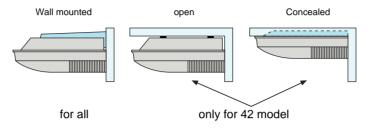
1. Feafures

Streamline appearance

The unit adopts streamline design that makes it so compact and has a popular appearance. So it can add elegance to any style of interior.

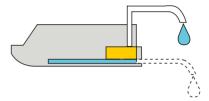
Optional installation mode

The indoor unit can be installed on the floor or to the ceiling. It always greatly decreases the space needed and also it can provide the same comfort to us. At the same time make service and Installation more convenient and easy.



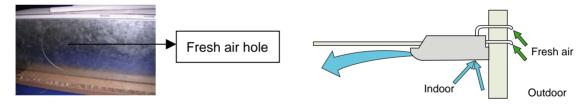
Optional Drain water modes(42 model)

Optional drain water lift-up mechanism offers more flexible installation. more choices for water pipe installation.



Fresh-air intake

There is pre-set 200mm-diameter large fresh air intake holes in the unit, which can make the air more comfortable. The fresh function can be set at any time according to the request of you

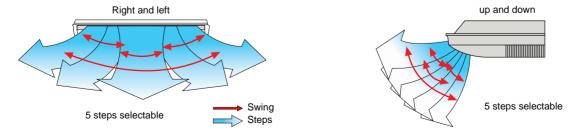


Automatically control of airflow direction

In order to realize the comfortable space with uniform temperature, the air conditioner adopts two stepping motors to adjust the airflow automatically for sending the air to every corner of the room.

When heating, it will send download large quantity of hot air in order to quickly and effectively warm up the floor, and it will send the airflow from top to bottom from the very beginning when cooling to send the cool air to every corner of the room.

For 42 model, the airflow direction can be controlled in 5 steps from up to down and from left to right. More selectable, more flexible.





Ultra-thin unit body, only thick 199 mm

The convertible indoor unit adopts a double drain pan design, the unit body is very thin, only 199 mm. It is beautiful and elegant and the most important-space saving (for model 12, 18, 24).

Long-life and high efficiency air purify filter

The units adopts high efficiency air purify filter, greatly improve the room air quality; at the same time, the filter is with the pulling hole, can be easily taken down and cleaned.



Particular drive device

With single fan motor, the fans connect with motoraxis by the flexible gimbal so that the ratio of damageable parts can be reduced.





2. Specifications

item			Мо	del	HCFU-1	18CF03
Function	on				cooling	heating
Capaci	ty			BTU/h	16500	
Capaci				kW	4.83	
	le heat ratio			i i	70%	
Total p	ower input			W	2000	
	ower input			W	2500	
EER o				W/W	2.4	
	nidifying capacity			10 - ³ ×m ³ /h	2.	.0
Power				section	3G×2.	5mm ²
Signal				section		_
	cting cable			section	3G×2.	0mm ²
	source			N, V, Hz	1PH,220-2	30V, 50HZ
	g /Max.Running current			A/A	9.5A/ ⁻	
Start C				A	4	
	of anti electric shock				CLASS I	CLASS I
	breaker			A	2	
	perating pressure of hea	at side		Мра	2.8	2.8
	perating pressure of cold			Мра	2.8	2.8
	Unit model (color)			'	HCFU-18CF	F03(WHITE)
	` '	Type x Num	ber		centrif	ugal*2
	F	Speed(H-M-	·L)	r/min	1150±30/1000±	
	Fan	Fan motor o	utput power	kW	0.0	04
Ħ		Air-flow(H-M-L)		m³/h	90	00
Indoor unit	Haat anabaaaaa	Type / Diameter		mm	inner grooved/φ9.52	
8	Heat exchanger	Temp. scope		$^{\circ}$		
<u>lu</u>	D: .	External	(LxWxH)	mm×mm×mm	1090×6	55×199
	Dimension	Package	(LxWxH)	mm×mm×mm	1150×7	
	Control type (Remote	e /wired /mod			Rem	
	Noise level (H-M-L)	•		dB(A)	50/47/42	
		hipping)		kg / kg	30/	•
	Unit model (color)	l l		Ng / Ng	HCFU-18CF	
	Critic frieddir (ddidir)	Model / Mar	ufacture		PH310X2CS	
	Compressor	Type	ididotaro		ROT	
	Comprocess	Starting met	hod		Direct	
		Type × Num			Axia	
	Fan	Speed	ibei	r/min	82	
υjt	i aii	· · · · · · · · · · · · · · · · · · ·		kW	0.0	
or unit			utput power			
Outdoo	Heat exchanger	Type / Diam		mm	inner groo	veu/ψ9.52 !/
Out		Row / Fin pi				•
Ŭ	Dimension	External	(LxWxH)	mm×mm×mm	780*24	
	5 (1	Package	(LxWxH)	mm×mm×mm	910*34	
	Refrigerant control met	hod		mm/mm	Capillar	
	Defrosting				Autor	
	Noise level			dB(A)	5	
	Weight (Net / S	Shipping)		kg / kg	41/	
	Refrigerant	Type / Char		g	16	
	Tomgorant	Recharge qu	uantity	g/m	3	
Š	Pipe	Liquid		mm	φ6.	
PIPING		Gas		mm	φ1:	
₫	Connecting Method				Fla	
	Between I.D &O.D	MAX.Drop		m	5	
		MAX.Piping	length	m	1	5



item			Mod	del	HCFU-18	BHF03
Functio	n				cooling	heating
Capaci	ty			BTU/h	16500	18000
Capaci	ty			kW	4.83	5.275
Sensibl	le heat ratio				70%	
Total po	ower input			W	2000	1800
	ower input			W	2500	2400
EER or	COP			W/W	2.4	2.93
Dehum	idifying capacity			10 - ³ ×m ³ /h	2.0	
Power	cable			section	3G×2.5	mm ²
Signal	cable			section	3×2.0mm ² +2	20 75mm ²
	cting cable			section		
Power:				N, V, Hz	1PH,220-23	
	g /Max.Running current	:		A/A	Cooling 9.5A/12.0A	Heating 8.5/11.0
Start C				Α	40	
	of anti electric shock				CLASS I	CLASS I
	breaker			А	25	
	perating pressure of hea			Мра	2.8	2.8
Max. or	perating pressure of col	d side		Мра	2.8	2.8
	Unit model (color)	<u> </u>			HCFU-18HF0	
		Type x Nun			centrifu	
	Fan	Speed(H-M		r/min	1150/100	
			output power	kW	0.04	
Indoor unit		Air-flow(H-N		m³/h	900	
) <u>'</u> C	Heat exchanger	Type / Diar		mm	inner groov	ed/φ9.52
ę	_	Temp. scop		$^{\circ}$	1000.05	5 400
드	Dimension	External	(LxWxH)	mm×mm×mm	1090×655×199	
		Package	(LxWxH)	mm×mm×mm	1150×75	0x300
	,	e /wired /mo	del)		Remo	
	Noise level (H-M-L))	del)	dB(A)	50/47	/42
	Noise level (H-M-L) Weight (Net / S		del)	dB(A) kg/kg	50/47 30/3	/42 86
	Noise level (H-M-L)) Shipping)			50/47. 30/3 HCFU-18HF0	/42 86 03(WHITE)
	Noise level (H-M-L) Weight (Net / S) Shipping) Model / Mar			50/47. 30/3 HCFU-18HF0 SHW331	/42 36 03(WHITE) ГС4-U
	Noise level (H-M-L Weight (Net / S Unit model (color)	Shipping) Model / Mar	nufacture		50/47, 30/3 HCFU-18HFC SHW33T SUNISO	/42 36 03(WHITE) FC4-U I-4GSI
	Noise level (H-M-L) Weight (Net / S) Shipping) Model / Mar	nufacture		50/47. 30/3 HCFU-18HF(SHW337 SUNISO 600±20	/42 66 03(WHITE) FC4-U 0-4GSI
	Noise level (H-M-L Weight (Net / S Unit model (color)	hipping) Model / Mar Oil model Oil charging Type	nufacture		50/47. 30/3 HCFU-18HF(SHW331 SUNISO 600±2(ROTA	7/42 86 03(WHITE) FC4-U I-4GSI 0 ml
	Noise level (H-M-L Weight (Net / S Unit model (color)	hipping) Model / Mar Oil model Oil charging	nufacture		50/47 30/3 HCFU-18HF(SHW331 SUNISO 600±20 ROTA Direct S	7/42 36 03(WHITE) FC4-U 1-4GSI 0 ml kRY
nit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor	Model / Mar Oil model Oil charging Type Starting me	nufacture	kg/kg	50/47 30/3 HCFU-18HFC SHW331 SUNISO 600±20 ROTA Direct S	/42 36 03(WHITE) ΓC4-U 0-4GSI 0 ml kRY Start
r unit	Noise level (H-M-L Weight (Net / S Unit model (color)	hipping) Model / Mar Oil model Oil charging Type Starting me	nufacture		50/47 30/3 HCFU-18HF(SHW331 SUNISO 600±20 ROTA Direct S	/42 36 03(WHITE) ΓC4-U 0-4GSI 0 ml kRY Start
loor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor	Model / Mar Oil model Oil charging Type Starting me Type × Nun Speed Fan motor o	thod nber	kg/kg	50/47 30/3 HCFU-18HFC SHW33T SUNISO 600±20 ROTA Direct S Axial 820 0.03	/42 36 03(WHITE) FC4-U -4GSI 0 ml RRY Start *1
utdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor	Model / Mar Oil model Oil charging Type Starting me Type x Nun Speed	thod nber	kg / kg	50/47, 30/3 HCFU-18HFC SHW33T SUNISO 600±20 ROTA Direct S Axial	/42 36 03(WHITE) FC4-U -4GSI 0 ml RRY Start *1
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor	Model / Mar Oil model Oil charging Type Starting me Type × Nun Speed Fan motor o	thod nber output power	kg / kg r/min kW	50/47 30/3 HCFU-18HFC SHW33T SUNISO 600±20 ROTA Direct S Axial 820 0.03 inner groov	/42 36 03(WHITE) FC4-U -4GSI 0 ml .RY Start *1 0 35 ed/φ9.52
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger	hipping) Model / Mar Oil model Oil charging Type Starting me Type × Nun Speed Fan motor of Type / Diam	thod nber output power	kg / kg r/min kW	50/47. 30/3 HCFU-18HFC SHW33T SUNISO 600±20 ROTA Direct S Axial 820 0.03 inner groov	/42 36 03(WHITE) FC4-U -4GSI 0 ml .RY Start *1 0 35 ed/φ9.52
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor	Model / Mar Oil model Oil charging Type Starting me Type × Nun Speed Fan motor of Type / Diam Row / Fin p	thod nber output power neter itch	r/min kW mm	50/47 30/3 HCFU-18HFC SHW33T SUNISO 600±20 ROTA Direct S Axial 820 0.03 inner groov	7/42 36 33(WHITE) ΓC4-U 9-4GSI 0 ml kRY Start 1*1 0 35 ed/φ9.52
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger	Model / Mar Oil model Oil charging Type Starting me Type x Nun Speed Fan motor o Type / Diam Row / Fin p External	thod nber output power neter itch (LxWxH)	r/min kW mm mm×mm×mm	50/47 30/3 HCFU-18HFG SHW331 SUNISO 600±20 ROTA Direct S Axial 820 0.03 inner groov	7/42 36 03(WHITE) FC4-U P-4GSI 0 ml NRY Start 1*1 0 35 ed/φ9.52
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension	Model / Mar Oil model Oil charging Type Starting me Type x Nun Speed Fan motor o Type / Diam Row / Fin p External	thod nber output power neter itch (LxWxH)	r/min kW mm mm×mm×mm mm×mm×mm	50/47 30/3 HCFU-18HF0 SHW331 SUNISO 600±20 ROTA Direct S Axial 820 0.03 inner groov 2/ 780*245 910*340	7/42 36 03(WHITE) FC4-U 1-4GSI 0 ml KRY Start *1 0 35 ed/φ9.52
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level	Model / Mar Oil model Oil charging Type Starting me Type × Nun Speed Fan motor of Type / Diam Row / Fin p External Package thod	thod nber output power neter itch (LxWxH)	r/min kW mm mm×mm×mm mm×mm×mm	50/47, 30/3 HCFU-18HF0 SHW33T SUNISO 600±20 ROTA Direct S Axial 820 0.03 inner groov 2/ 780*245 910*340 Capillary	7/42 36 7/42 7/42 7/40 7/46 7/46 7/46 7/40 7/
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level	Model / Mar Oil model Oil charging Type Starting me Type x Nun Speed Fan motor o Type / Diam Row / Fin p External	thod nber output power neter itch (LxWxH)	r/min kW mm mm×mm×mm mm×mm×mm mm/mm	50/47, 30/3 HCFU-18HF0 SHW33T SUNISO 600±20 ROTA Direct S Axial 820 0.03 inner groov 2/ 780*245 910*340 Capillary Autom	7/42 36 7/42 7/42 7/42 7/42 7/43 7/
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S)	Model / Mar Oil model Oil charging Type Starting me Type × Nun Speed Fan motor of Type / Diam Row / Fin p External Package thod	thod nber butput power neter itch (LxWxH) (LxWxH)	r/min kW mm mm×mm×mm mm/mm dB(A)	50/47, 30/3 HCFU-18HFC SHW33T SUNISO 600±20 ROTA Direct S Axial 820 0.03 inner groov 2/ 780*245 910*340 Capillary Autom	//42 36 03(WHITE) ΓC4-U 4GSI 0 ml
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level	Model / Mar Oil model Oil charging Type Starting me Type × Nun Speed Fan motor of Type / Diam Row / Fin p External Package thod Shipping)	thod nber output power neter itch (LxWxH) (LxWxH)	r/min kW mm mm×mm×mm mm×mm×mm mm/mm dB(A) kg / kg	50/47. 30/3 HCFU-18HFC SHW33T SUNISO 600±20 ROTA Direct \$ Axial 820 0.03 inner groov 2/ 780*245 910*340 Capillary Autom 53	/42 36 03(WHITE) FC4-U 1-4GSI 0 ml 4RY Start *1 0) 35 ed/φ9.52 5*640 0*710 / tube hatic
Outdoor	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S) Refrigerant	Model / Mar Oil model Oil charging Type Starting me Type x Nun Speed Fan motor of Type / Diam Row / Fin p External Package thod Shipping) Type / Char Recharge of Liquid	thod nber output power neter itch (LxWxH) (LxWxH)	r/min kW mm mm×mm×mm mm×mm×mm mm/mm dB(A) kg / kg g	50/47. 30/3 HCFU-18HF0 SHW337 SUNISO 600±20 ROTA Direct \$ Axial 820 0.03 inner groov. 2/ 780*245 910*340 Capillary Autom 53 41/4 165 30 φ6.3	/42 36 03(WHITE) FC4-U 1-4GSI 0 ml 4RY Start 1*1 0 35 ed/φ9.52 5*640 0*710 7 tube hatic
Outdoor	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S) Refrigerant	Model / Mar Oil model Oil charging Type Starting me Type × Nun Speed Fan motor of Type / Diam Row / Fin p External Package thod Shipping) Type / Char Recharge o	thod nber output power neter itch (LxWxH) (LxWxH)	r/min kW mm mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m	50/47. 30/3 HCFU-18HF0 SHW337 SUNISO 600±20 ROTA Direct \$\frac{3}{4}\$ 2/ 780*245 910*340 Capillary Autom 53 41/4 165 30 φ6.3	/42 36 03(WHITE) FC4-U -4GSI 0 ml -RY Start *1 0) 35 ed/φ9.52 5*640 0*710 7 tube latic
PIPING Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S) Refrigerant	Model / Mar Oil model Oil charging Type Starting me Type × Nun Speed Fan motor of Type / Diam Row / Fin p External Package thod Shipping) Type / Char Recharge of Liquid Gas	thod nber output power neter itch (LxWxH) (LxWxH)	r/min kW mm mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm	50/47. 30/3 HCFU-18HF0 SHW337 SUNISO 600±20 ROTA Direct 3 Axial 820 0.03 inner groov 2/ 780*245 910*340 Capillary Autom 53 41/4 165 30 φ6.3	/42 36 03(WHITE) FC4-U -4GSI 0 ml -RY Start *1 0) 35 ed/φ9.52 5*640 0*710 7 tube latic
Outdoor	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S) Refrigerant	Model / Mar Oil model Oil charging Type Starting me Type x Nun Speed Fan motor of Type / Diam Row / Fin p External Package thod Shipping) Type / Char Recharge of Liquid	thod nber output power neter itch (LxWxH) (LxWxH)	r/min kW mm mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm	50/47. 30/3 HCFU-18HF0 SHW337 SUNISO 600±20 ROTA Direct \$\frac{3}{4}\$ 2/ 780*245 910*340 Capillary Autom 53 41/4 165 30 φ6.3	7/42 36 7/42 36 7/42 7/42 7/46 7/46 7/46 7/46 7/40 7/40 7/40 7/40 7/40 7/40 7/40 7/40 7/40 7/40 7/40 7/40 8/4 8/5 8/5 8/6 8/7 8/6 8/7 8/7 8/7 8/7 8/7 8/7 8/7 8/7



item			Mod	del	HCFU-28	BCF03
Function	n			1	cooling	heating
Capaci		1		BTU/h	24000	
Capaci	•			kW	7.1	
	le heat ratio				70%	
	ower input			W	2800	
	ower input	1		W	3400	
EER o		1		W/W	2.54	
	idifying capacity	1		10 - ³ ×m ³ /h	3.0)
Power	, , ,	1		section	3G×4.0	
Signal				section		
_	cting cable	1		section	4G×0.7	5mm²
Power	source			N, V, Hz	1PH,220-23	30V,50HZ
Runnin	g /Max.Running current	t		A/A	13.0A/1	
Start C	<u> </u>	1		А	40	j
Class o	of anti electric shock				CLASS I	CLASS I
Circuit	breaker			Α	35	
Max. o	perating pressure of hea	at side		Мра	2.8	2.8
	perating pressure of col			Мра	2.8	2.8
	Unit model (color)				HCFU-28CF	
		Type x Num	nber		centrifu	
	Fan	Speed(H-M	-L)	r/min	1300±30/1250	±40/1150±50
	ran	Fan motor of	utput power	kW	0.03	33
⊭		Air-flow(H-N	1-L)	m³/h	130	0
Indoor unit	Heat exchanger	Type / Dian	neter	mm	inner groov	ed/φ9.52
8	i leat excitatiget	Temp. scop	е	${\mathbb C}$	1	
<u> </u>	Dimension	External	(LxWxH)	mm×mm×mm	1320×71	5×235
	Dimension	Package	(LxWxH)	mm×mm×mm	1380×77	0×300
	Control type (Remot	e /wired /model)			Rem	ote
	Noise level (H-M-L	,		dB(A)	51/49	/47
	Weight (Net / S	Shipping)		kg / kg	47/5	52
	Unit model (color)				HCFU-28CF	03(WHITE)
		Model / Mar	nufacture		THU33V	VC6-U
		Oil model			SUNISC	-4GSI
	Compressor	Oil charging			1050:	±20
	·	Type			ROTA	\RY
		Starting me	thod		Direct	
		Type x Num			Axia	
unit	Fan	Speed		r/min	106	
ŏ			output power	kW	0.0	
Outdoor u		Type / Diam		mm	inner groov	
õ	Heat exchanger	Row / Fin pi		111111	2/	•
		External	(LxWxH)	mm×mm×mm	862*310	
	Dimension	Package	(LxWxH)	mm×mm×mm	1005*42	
	Refrigerant control me		(LXVVXII)	mm/mm	Capillary	
		uiou		11111/111111	Autom	
	Defrosting			dD(A)	Autorr 61	
	Noise level	Shinning\		dB(A)	60/6	
	Weight (Net / S	Shipping)		kg / kg		
	Refrigerant	Type / Char		g g/m	255 65	
(D		Recharge q	uantity	g/m		
N N	Pipe	Liquid		mm	φ9.5	
PIPING	Connecting Method	Gas		mm	φ15.	
"	Connecting Method	MAX.Drop		<u> </u>	Flare 20	
	Between I.D &O.D	MAX.Drop	la a atla	m m	30	
		II/// V D:~:~~				



item			Mod	del	HCFU-2	8HF03
Functio	n				cooling	heating
Capaci	ty			BTU/h	24000	26000
Capaci				kW	7.1	7.6
	le heat ratio				70%	
Total p	ower input			W	2850	2800
	ower input			W	3500	3400
EER o	•			W/W	2.54	2.7
	idifying capacity			10 - ³ ×m ³ /h	3.0)
Power	cable			section	3G×4.0)mm²
Signal	cable			section	6G×0.7	
Connec	cting cable			section		
Power	source			N, V, Hz	1PH, 220-23	30V,50HZ
	g /Max.Running curren	t		A/A	Cooling 13.5A/16.0A	Heating13.0/15.0
Start C	urrent			А	40	
Class o	of anti electric shock				CLASS I	CLASS I
	breaker			Α	35	
	perating pressure of he			Мра	2.8	2.8
Max. o	perating pressure of co	ld side		Мра	2.8	2.8
	Unit model (color)				HCFU-28HF	
		Type x Nur			centrifu	
	Fan	Speed(H-M		r/min		0±40/1150±50
			output power	kW	0.03	
ij.		Air-flow(H-N	,	m³/h	130	
ndoor unit	Heat exchanger	Type / Diai		mm	inner groov	/ed/φ9.52
၂ မို	- rear exertainger	Temp. scop		$^{\circ}\mathbb{C}$	/	
<u> </u>	Dimension	External	(LxWxH)	mm×mm×mm	1320×71	
		Package	(LxWxH)	mm×mm×mm	1380×77	'0×300
		te /wired /mo	del)		Rem	
	Noise level (H-M-L	,		dB(A)	51/49	9/47
	_	Shipping)		kg / kg	47/5	
	Unit model (color)				HCFU-28HF	,
		Model / Ma	nufacture		THU33V	
		Oil model			SUNISC	
	Compressor	Oil charging)		1050:	
		Type			ROT <i>i</i>	\RY
		Starting me	thod		Direct	Start
.=		Type x Nur	nber		Axia	l*1
unit	Fan	Speed		r/min	106	60
00		Fan motor	output power	kW	0.0	8
Outdoor	Haat analaan aa	Type / Dian	neter	mm	inner groov	/ed/φ9.52
Ō	Heat exchanger	Row / Fin p	itch		2/	•
	D: .	External	(LxWxH)	mm×mm×mm	862*31	0*730
	Dimension	Package	(LxWxH)	mm×mm×mm	1005*42	
	Refrigerant control me			mm/mm	Capillary	
	Defrosting			•	Autom	
	Noise level			dB(A)	61	
		Shipping)		kg / kg	60/6	
		Type / Cha	rge	g	260	
	Refrigerant	Recharge of		g/m	65	
G	Din	Liquid		mm	φ9.	
PIPING	Pipe	Gas		mm	φ15.	
∄	Connecting Method				Flar	
	Ţ.	MAX.Drop		m	20	
	Between I.D &O.D	MAX.Piping	length	m	30)



item			Mod	del	HCFU-42	CF03
Functio	n				cooling	heating
Capaci				BTU/h	42000	
Capaci	·	1		kW	12.3	
	le heat ratio			1	75%	
	ower input			W	4600	
	ower input			W	5700	
EER or		1		W/W	2.67	
	idifying capacity	1		10 - ³ ×m ³ /h	4.7	
Power				section	5G×2.5r	nm²
Signal				section		
	cting cable			section	4G×0.75	mm²
Power		1		N, V, Hz	3PH, 380-400	0V. 50HZ
	g /Max.Running current	+		A / A	8.5/9.	
Start C		1		A	40	<u> </u>
	of anti electric shock			, , , , , , , , , , , , , , , , , , ,	CLASS I	1
	breaker	1		Α	30	,
	perating pressure of hea	at side		Mpa	2.8	1
	perating pressure of nea			Мра	2.8	/
ivian. U	Unit model (color)	u siut		ινιμα	HCFU-42CF0	/ 3(\/\HITE)
	OTHE HIDGE (COIOI)	Typo + Nu-	phor	+ +	centrifug	,
		Type × Num Speed(H-M		r/min	1250/1150	
	Fan	_ ` `		r/min kW	0.09	
			output power			
		Air-flow(H-N	,	m³/h	2000/1800	
nit		Type / Diar	neter	mm	inner groo	/ea/φ <i>1</i>
or c	Heat exchanger	Total Area		m²	0.1	
Indoor unit		Temp. scop		$^{\circ}$ C	2-7	
Ē	Dimension	External	(LxWxH)	mm×mm×mm	1580*700	
	Bimonolon	Package	(LxWxH)	mm×mm×mm	1710*790	
	Drainage pipe (material , I.D./O.D.))	mm	PP 2	0/25
	Control type (Remot	te /wired /mo	del)		Remo	te
	Noise level (H-M-L)	•	dB(A)	53/51/	49
	Weight (Net / S	Shipping)		kg/kg	54/6	1
	Unit model (color)	1 7		_ <u> </u>	HCFU-42CF0	
	Cim moder (color)	Model / Mar	nufacture		JT160BCBY1I	
		Oil model	idiaotaro		SUNISO 4GSDID-K/I	
		Oil charging	1		1500-1	
	Compressor				SCRO	
		Type				
		Protection ty			inner prot	
		Starting me			Direct S	
		Type x Num	nber		Axial*	
.iu	Fan	Speed		r/min	740±5	
Outdoor unit		Fan motor of	output power	kW	0.150	6
tdo		Air-flow(H-N	Л-L)	m³/h	6000)
Out		Type / Diam	neter	mm	inner groove	ed/φ9.52
	Heat exchanger	Row / Fin pi			2/	
	l	Temp. scop		°C	cooling: 43~60 /	heating: 6~7
		External	(LxWxH)	mm×mm×mm	1008×830	
	Dimension	Package	(LxWxH)	mm×mm×mm	1130×930	
	Refrigerant control me		(LAVVALL)	mm/mm	Capillary	
	Defrosting	uiou		11111//111111	Automa	
		<u> </u>		4D(A)		3UU
	Noise level	<u> </u>		dB(A)	62	<u> </u>
		Shipping)		kg / kg	80/90	
	Refrigerant	Type / Char	ge	g	R22/250	
	i	Liquid		mm	φ9.52	
(J	Pipe					
DNI DNI	Pipe	Gas		mm	φ19.0	
PIPING	Pipe Connecting Method	Gas		mm	Flare	
PIPING				mm m		



item			Mod	lel l	HCFU-42	HF03
Function	nn		IVIOC	''	cooling	heating
Capaci		1		BTU/h	44000	48000
Capaci	,			kW	12.9	14060
	le heat ratio			KVV	75%	14000
	ower input	1		W	4600	4600
	ower input			W	5540	5220
EER O				W/W	2.8	3.06
	idifying capacity			10 - ³ ×m ³ /h	4.7	3.00
Power		1		section	5G×2.5	2
Signal		1		section	5GX2.5	mm
	cting cable	1		section	6G×0.75	imm ²
Power				N, V, Hz	3PH, 380-40	01/ 5047
	g /Max.Running curren	+		A / A	cooling 8.8/9.6	
Start C		1		A	50	leatingo.o/9.2
	of anti electric shock				CLASS I	CLASS I
	breaker	1		А	50	CLAGGI
	perating pressure of he	at side		Mpa	2.8	2.8
	perating pressure of ne			Мра	2.8	2.8
IVIAA. U	Unit model (color)	ia side		ινιρα	HCFU-42HF0	
	Offic Hilouet (COIOI)	Type × Nur	nher	+ +	centrifuç	
	1	Speed(H-M		r/min	1250/1150	
	Fan		output power	kW	0.09	
		Air-flow(H-I		m³/h	2000/1800	
		Type / Dia			inner groo	
Indoor unit	Heat ayahangar		netei	mm		νεα/ψ1
or u	Heat exchanger	Total Area		m²	0.1 2-7	
မွ		Temp. scor		$^{\circ}$		2*0.40
_=	Dimension	External	(LxWxH)	mm×mm×mm	1580*700	
		Package	(LxWxH)	mm×mm×mm	1710*79	
		ainage pipe (material , I.D./O.D.)			PP 2	
	·				Remo	
	Noise level (H-M-L	,		dB(A)	53/51/	49
	Weight (Net / S	Shipping)		kg / kg	54/6	
	Unit model (color)				HCFU-42HF0	3(WHITE)
		Model / Ma	nufacture		JT160BCBY1	L DAKIN
		Oil model			SUNISO 4GSDID-K/	DAPHNE SE56P
	0	Oil charging	9		1500-1	700
	Compressor	Туре			SCRC	LL
		Protection t	vpe		inner prot	ection
		Starting me	•		Direct S	
		Type × Nur			Axial	
		Speed		r/min	840±	
Outdoor unit	Fan		output power	kW	0.08	
or u	1	Air-flow(H-N		m³/h	7000	
율		· · · · ·	,		inner groove	
Õ	l look ovehonger	Type / Dian		mm	2/	ευ/ψ9.52
	Heat exchanger	Row / Fin p		16		haration of 7
		Temp. scor		$^{\circ}$	cooling: 43~60 /	-
	Dimension	External	(LxWxH)	mm×mm×mm	948*340*	
		Package	(LxWxH)	mm×mm×mm	1050*440	
	Refrigerant control me	thod		mm/mm	Capillary	
	Defrosting				Autom	atic
	Noise level			dB(A)	62	
	crankcase heater pov			W	47	
	Weight (Net /	Shipping)		kg / kg	103/1	11
	(1.101)				D 0 0 /0 0	
	Refrigerant	Type / Cha	rge	g	R22/28	00G
(0)	Refrigerant	Type / Cha Liquid	rge	g mm	R22/28 φ9.5	
<u>8</u>	Refrigerant Pipe		rge		φ9.5 φ19.0	2 05
PING	Refrigerant	Liquid Gas	rge	mm	φ9.5 φ19.0 Flare	2 05
PIPING	Refrigerant Pipe Connecting Method	Liquid Gas MAX.Drop		mm	φ9.5 φ19.0 Flare 30	2 05
PIPING	Refrigerant Pipe	Liquid Gas		mm mm	φ9.5 φ19.0 Flare	2 05



item			Mod	del	HCFU-420	CH03
Functio	ın			1	cooling	heating
Capaci				BTU/h	42000	
Capaci				kW	12.3	
•	le heat ratio			- KVV	75%	
	ower input			W	4600	
	ower input			W	5700	
EER or				W/W	2.67	
	idifying capacity			10 - ³ ×m ³ /h	4.7	
Power	, , ,			section	5G×2.5n	nm ²
Signal				section		_
_	cting cable			section	4G×0.75r	mm ²
Power				N, V, Hz	3PH, 380-400)V. 50HZ
	g /Max.Running current			A / A	8.5/9.3	
Start C				A	50	
	of anti electric shock			, , , , , , , , , , , , , , , , , , ,	CLASS I	1
	breaker			A	30	
	perating pressure of hea	at side		Mpa	2.8	
	perating pressure of col			Мра	2.8	
	Unit model (color)				HCFU-42CH03	3(WHITE)
l		Type x Nun	nber	† †	centrifug	,
1	_	Speed(H-M		r/min	1250/1150	
	Fan		output power	kW	0.09	
		Air-flow(H-N		m³/h	2000/1800	/1400
υ <u>i</u> t		Type / Diar		mm	inner groov	
Indoor unit	Heat exchanger	Total Area		m²	0.1	
) မြ	l loat onomango.	Temp. scop	<u> </u>	°C	2-7	
<u>=</u>		External	(LxWxH)	mm×mm×mm	1580*700	*240
	Dimension	Package	(LxWxH)	mm×mm×mm	1710*790	
	Control type (Remot			111112111112111111	Remot	
	Noise level (H-M-L		uei)	dD(A)	53/51/4	
) Shipping)		dB(A)		
		Tipping)		kg / kg	54/61 HCFU-42CH03	
	Unit model (color)	Model / Mai	. (JT160GABY1L	
		IIVIOGEL / IVIAI	nutacture		117606-48711	
		Oil model			SUNISO 4GSDID-K/D	DAPHNE SE56P
	Compressor	Oil model Oil charging			SUNISO 4GSDID-K/D 1500-17	OAPHNE SE56P 700
	Compressor	Oil model Oil charging Type)		SUNISO 4GSDID-K/E 1500-17 SCROI	DAPHNE SE56P 700 LL
	Compressor	Oil model Oil charging Type Protection t	уре		SUNISO 4GSDID-K/E 1500-17 SCROI inner prote	DAPHNE SE56P 700 LL ection
	Compressor	Oil model Oil charging Type Protection t Starting me	ype thod		SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S	DAPHNE SE56P 700 LL ection tart
	Compressor	Oil model Oil charging Type Protection t Starting me Type × Nun	ype thod		SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial*	DAPHNE SE56P 700 LL ection tart
ınit		Oil model Oil charging Type Protection t Starting me Type × Nun Speed	ype thod nber	r/min	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S	DAPHNE SE56P 700 LL ection tart
or unit	Compressor	Oil model Oil charging Type Protection t Starting me Type × Nun Speed	ype thod	r/min kW	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5	DAPHNE SE56P 700 LL ection tart 1 0
tdoor unit		Oil model Oil charging Type Protection t Starting me Type × Nun Speed	ype thod nber output power		SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5	DAPHNE SE56P 700 LL ection tart 1 0
Outdoor unit		Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor of	ype thod nber output power	kW	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5	DAPHNE SE56P 700 LL ection tart 1 0
Outdoor unit		Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor c Air-flow(H-N	ype thod nber output power M-L) neter	kW m³/h	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156	DAPHNE SE56P 700 LL ection tart 1 0
Outdoor unit	Fan	Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor c Air-flow(H-N Type / Diam	ype thod nber output power A-L) neter itch	kW m³/h	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 6000 inner groove	DAPHNE SE56P 700 LL ection tart 1 0 S d/φ9.52
Outdoor unit	Fan Heat exchanger	Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor of Air-flow(H-N Type / Diam Row / Fin p	ype thod hber output power M-L) heter itch	kW m³/h mm	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove	DAPHNE SE56P 700 LL ection tart 1 0 6 d/φ9.52 heating: 6~7
Outdoor unit	Fan	Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor c Air-flow(H-N Type / Diam Row / Fin p Temp. scop External	ype thod nber output power M-L) neter itch ne (LxWxH)	kW m³/h mm	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / 1	DAPHNE SE56P 700 LL ection tart 1 0 6 d/φ9.52 heating: 6~7 x410
Outdoor unit	Fan Heat exchanger Dimension	Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor c Air-flow(H-N Type / Diam Row / Fin p Temp. scop External Package	ype thod hber output power M-L) heter itch	kW m³/h mm °C mmxmmxmm mmxmmxmm	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / I 1008×830 1130×930	DAPHNE SE56P 700 LL ection tart 1 0 6 d/φ9.52 heating: 6~7 x410 x490
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control met	Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor c Air-flow(H-N Type / Diam Row / Fin p Temp. scop External Package	ype thod nber output power M-L) neter itch ne (LxWxH)	kW m³/h mm	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / I 1008×830 1130×930 Capillary	DAPHNE SE56P 700 LL ection tart 1 0 6 d/φ9.52 heating: 6~7 ×410 ×490 tube
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metors Defrosting	Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor c Air-flow(H-N Type / Diam Row / Fin p Temp. scop External Package	ype thod nber output power M-L) neter itch ne (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / I 1008×830 1130×930 Capillary Automa	DAPHNE SE56P 700 LL ection tart 1 0 6 d/φ9.52 heating: 6~7 ×410 ×490 tube
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control metorstoring Noise level	Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor of Air-flow(H-N Type / Diam Row / Fin p Temp. scop External Package thod	ype thod nber output power M-L) neter itch ne (LxWxH)	kW m³/h mm °C mm×mm×mm mm×mm×mm mm/mm dB(A)	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / I 1008×830 1130×930 Capillary Automa	DAPHNE SE56P 700 LL ection tart 1 0 S d/φ9.52 heating: 6~7 ×410 ×490 tube
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S	Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor of Air-flow(H-N Type / Diam Row / Fin p Temp. scop External Package thod Shipping)	ype thod nber output power M-L) neter itch ne (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / I 1008×830 1130×930 Capillary Automa 62 95/100	DAPHNE SE56P 700 LL ection tart 1 0 3 d/φ9.52 heating: 6~7 ×410 ×490 tube titic
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S Refrigerant	Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor o Air-flow(H-N Type / Diam Row / Fin p Temp. scop External Package thod Shipping) Type / Char	ype thod nber output power M-L) neter itch ne (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / I 1008×830 1130×930 Capillary Automa 62 95/10 R22/250	DAPHNE SE56P 700 LL ection tart 1 0 6 d/φ9.52 heating: 6~7 ×410 ×490 tube stric
	Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S	Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor o Air-flow(H-N Type / Diam Row / Fin p Temp. scop External Package thod Shipping) Type / Char Liquid	ype thod nber output power M-L) neter itch ne (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / I 1008×830 1130×930 Capillary Automa 62 95/100 R22/250 φ9.52	DAPHNE SE56P 700 LL ection tart 1 0 3 d/φ9.52 heating: 6~7 ×410 ×490 tube httic 0 00G
	Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S Refrigerant	Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor o Air-flow(H-N Type / Diam Row / Fin p Temp. scop External Package thod Shipping) Type / Char	ype thod nber output power M-L) neter itch ne (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / I 1008×830 1130×930 Capillary Automa 62 95/10 R22/250 φ9.52 φ19.05	DAPHNE SE56P 700 LL ection tart 1 0 6 d/φ9.52 heating: 6~7 ×410 ×490 tube httic 0 00G
PIPING Outdoor unit	Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S Refrigerant Pipe Connecting Method	Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor o Air-flow(H-N Type / Diam Row / Fin p Temp. scop External Package thod Shipping) Type / Char Liquid Gas	ype thod nber output power M-L) neter itch ne (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm mm	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / I 1008×830 1130×930 Capillary Automa 62 95/10 R22/250 φ9.52 φ19.05 Flarec	DAPHNE SE56P 700 LL ection tart 1 0 6 d/φ9.52 heating: 6~7 ×410 ×490 tube httic 0 00G
	Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S Refrigerant	Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor o Air-flow(H-N Type / Diam Row / Fin p Temp. scop External Package thod Shipping) Type / Char Liquid	ype thod nber output power M-L) neter itch ne (LxWxH) (LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm	SUNISO 4GSDID-K/E 1500-17 SCROI inner prote Direct S Axial* 740±5 0.156 6000 inner groove 2/ cooling: 43~60 / I 1008×830 1130×930 Capillary Automa 62 95/10 R22/250 φ9.52 φ19.05	DAPHNE SE56P 700 LL ection tart 1 0 6 d/φ9.52 heating: 6~7 ×410 ×490 tube httic 0 00G



item			Мо	del	HCFU-42	HK03
Functio	nn		IVIO		cooling	heating
Capaci				BTU/h	42000	48000
	•			kW	12.5	14.06
Capaci	•			KVV	75%	14.00
	le heat ratio			147		4000
	ower input			W	4600	4600
	ower input			W	5540	5220
EER or				W/W	2.7	3.06
	nidifying capacity			10 - 3xm3/h	4.7	2
Power				section	5G×2.5r	mm ⁻
Signal				section	6G×0.75	mm^2
	cting cable			section		
Power				N, V, Hz	3PH,380-400	
	g /Max.Running curren	t		A/A	cooling 8.8/9.6 h	neating8.6/9.2
Start C				А	50	01.100.1
	of anti electric shock				CLASS I	CLASS I
	breaker	1		A	30	
	perating pressure of he			Мра	2.8	2.8
Max. o	perating pressure of co	ld side		Мра	2.8	2.8
	Unit model (color)			<u> </u>	HCFU-42HK0	,
		Type x Nun			centrifug	
	Fan	Speed(H-M		r/min	1250/1150	
	1		output power	kW	0.09	
		Air-flow(H-N		m³/h	2000/1800	
ij	1	Type / Diar	meter	mm	inner groov	· ·
Ē	Heat exchanger	Total Area		m²	0.10	
ndoor unit		Temp. scop		$^{\circ}$	2-7	
<u> </u>	Dimension	External	(LxWxH)	mm×mm×mm	1580*700)*240
	וווסווסוווסוו	Package (LxWxH)		mm×mm×mm	1710*790*315	
,	Drainage pipe (materi)	mm	PP 20/25	
		te /wired /mo		1	Remo	te
	Noise level (H-M-L		,	dB(A)	53/51/49	
Ī		,			54/61	
	Weight (Net / S	shipping)	nipping)		54/6	1
	Weight (Net / S Unit model (color)	Shipping)		kg / kg		
	Weight (Net / S Unit model (color)		nufacture	kg / kg	HCFU-42HK0	3(WHITE)
	-	Model / Ma	nufacture	kg / kg	HCFU-42HK0 JT160GABY1I	3(WHITE) L DAKIN
	Unit model (color)	Model / Ma		Kg / kg	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I	3(WHITE) L DAKIN DAPHNE SE56P
	-	Model / Ma Oil model Oil charging		kg / kg	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1	3(WHITE) L DAKIN DAPHNE SE56P 700
	Unit model (color)	Model / Ma Oil model Oil charging Type	9	kg / kg	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1 SCRO	3(WHITE) L DAKIN DAPHNE SE56P 700 LL
	Unit model (color)	Model / Ma Oil model Oil charging Type Protection t	уре	Kg / Kg	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1 SCRO inner prote	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection
	Unit model (color)	Model / Mar Oil model Oil charging Type Protection t Starting me	ype thod	Kg / Kg	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1 SCRO inner prot	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection
	Unit model (color)	Model / Ma Oil model Oil charging Type Protection t Starting me Type × Nun	ype thod		HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1 SCRO inner prote Direct S Axial*	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start
nit	Unit model (color) Compressor	Model / Mar Oil model Oil charging Type Protection t Starting me Type x Nun Speed	ype thod nber	r/min	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1 SCRO inner prote Direct S Axial*	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start 22 50
r unit	Unit model (color)	Model / Mar Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor of	ype thod nber output power	r/min kW	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-13 SCRO inner prote Direct S Axial* 840±5	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start 22 50
door unit	Unit model (color) Compressor	Model / Mar Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor of Air-flow(H-N	ype thod nber output power	r/min	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1: SCRO inner prote Direct S Axial* 840±5 0.08*	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start '2 50 2
outdoor unit	Unit model (color) Compressor Fan	Model / Mar Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor of Air-flow(H-N	ype thod nber putput power M-L) neter	r/min kW	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-13 SCRO inner prote Direct S Axial* 840±5	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start '2 50 2
Outdoor unit	Unit model (color) Compressor	Model / Mar Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor of Air-flow(H-N	ype thod nber putput power M-L) neter	r/min kW m³/h	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1: SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 pd/φ9.52
Outdoor unit	Unit model (color) Compressor Fan	Model / Mar Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor of Air-flow(H-N	ype thod nber butput power M-L) neter	r/min kW m³/h	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1: SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 pd/φ9.52
Outdoor unit	Unit model (color) Compressor Fan Heat exchanger	Model / Mai Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor of Air-flow(H-N Type / Dian Row / Fin p	ype thod nber butput power M-L) neter	r/min kW m³/h mm	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1: SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start 2 50 2 0 ed/φ9.52 heating: 6~7
Outdoor unit	Unit model (color) Compressor Fan	Model / Mar Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor of Air-flow(H-N Type / Dian Row / Fin p	ype thod nber butput power M-L) neter itch	r/min kW m³/h mm	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-13 SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 /	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 0 ed/φ9.52 heating: 6~7 1250
Outdoor unit	Unit model (color) Compressor Fan Heat exchanger Dimension	Model / Mar Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor of Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package	ype thod nber output power M-L) neter itch oe (LxWxH)	r/min kW m³/h mm	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-13 SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340* 1050*440	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 0 ed/φ9.52 heating: 6~7 1250 *1375
Outdoor unit	Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control me	Model / Mar Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor of Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package	ype thod nber output power M-L) neter itch oe (LxWxH)	r/min kW m³/h mm °C mm×mm×mm mm×mm×mm	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-13 SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340*	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 bd/φ9.52 heating: 6~7 1250 *1375 tube
Outdoor unit	Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control me Defrosting	Model / Mar Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor of Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package	ype thod nber output power M-L) neter itch oe (LxWxH)	r/min kW m³/h mm °C mm×mm×mm mm×mm×mm mm/mm	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1: SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340* 1050*440 Capillary Automa	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 bd/φ9.52 heating: 6~7 1250 *1375 tube
Outdoor unit	Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control me Defrosting Noise level	Model / Mar Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor of Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package	ype thod nber output power M-L) neter itch oe (LxWxH)	r/min kW m³/h mm °C mm×mm×mm mm×mm×mm dB(A)	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1: SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340* 1050*440 Capillary Automa	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 bd/φ9.52 heating: 6~7 1250 *1375 tube
Outdoor unit	Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control me Defrosting Noise level crankcase heater pow	Model / Mar Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor of Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package	ype thod nber output power M-L) neter itch oe (LxWxH)	r/min kW m³/h mm °C mm×mm×mm mm×mm×mm mm/mm dB(A) W	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-1: SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340* 1050*440 Capillary Automa	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 bed/φ9.52 heating: 6~7 f1250 *1375 tube attic
Outdoor unit	Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control me Defrosting Noise level crankcase heater pow Weight (Net /	Model / Mar Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor of Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package ethod	ype thod nber Dutput power M-L) neter itch De (LxWxH) (LxWxH)	r/min kW m³/h mm °C mm×mm×mm mm×mm×mm mm/mm dB(A) W kg / kg	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-17 SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340* 1050*440 Capillary Automa 62 47	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start 72 50 22 0 ed/φ9.52 heating: 6~7 1250 *1375 tube attic
Outdoor unit	Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control me Defrosting Noise level crankcase heater pow	Model / Mar Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor of Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package ethod ver Shipping) Type / Char	ype thod nber Dutput power M-L) neter itch De (LxWxH) (LxWxH)	r/min kW m³/h mm °C mm×mm×mm mm×mm×mm mm/mm dB(A) W kg / kg g	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-13 SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340* 1050*440 Capillary Automa 62 47 101/10 R22/280	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 0 ed/φ9.52 heating: 6~7 f1250 *1375 tube attic
	Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control me Defrosting Noise level crankcase heater pow Weight (Net /	Model / Mar Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor o Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package wer Shipping) Type / Char Liquid	ype thod nber Dutput power M-L) neter itch De (LxWxH) (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g mm	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-13 SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340* 1050*440 Capillary Automa 62 47 101/10 R22/280	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 0 ed/φ9.52 heating: 6~7 f1250 *1375 tube atic
	Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control mederosting Noise level crankcase heater powdeight (Net / Refrigerant) Pipe	Model / Mar Oil model Oil charging Type Protection t Starting me Type x Nun Speed Fan motor of Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package ethod ver Shipping) Type / Char	ype thod nber Dutput power M-L) neter itch De (LxWxH) (LxWxH)	r/min kW m³/h mm °C mm×mm×mm mm×mm×mm mm/mm dB(A) W kg / kg g	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-13 SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340* 1050*440 Capillary Automa 62 47 101/10 R22/280 φ9.52 φ19.0	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 0 ed/φ9.52 heating: 6~7 f1250 *1375 tube atic
PIPING Outdoor unit	Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control me Defrosting Noise level crankcase heater pow Weight (Net / Refrigerant	Model / Mar Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor o Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package sthod Ver Shipping) Type / Char Liquid Gas	ype thod nber Dutput power M-L) neter itch De (LxWxH) (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g mm mm	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-13 SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340* 1050*440 Capillary Automa 62 47 101/10 R22/280 φ9.52 φ19.0 Flare	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 0 ed/φ9.52 heating: 6~7 f1250 *1375 tube atic
	Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control mederosting Noise level crankcase heater powdeight (Net / Refrigerant) Pipe	Model / Mar Oil model Oil charging Type Protection t Starting me Type × Nun Speed Fan motor o Air-flow(H-N Type / Dian Row / Fin p Temp. scop External Package wer Shipping) Type / Char Liquid	ype thod nber output power M-L) neter itch oe	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g mm	HCFU-42HK0 JT160GABY1I SUNISO 4GSDID-K/I 1500-13 SCRO inner prote Direct S Axial* 840±5 0.08* 7000 inner groove 2/ cooling: 43~60 / 948*340* 1050*440 Capillary Automa 62 47 101/10 R22/280 φ9.52 φ19.0	3(WHITE) L DAKIN DAPHNE SE56P 700 LL ection Start f2 50 2 0 ed/φ9.52 heating: 6~7 f1250 *1375 tube atic



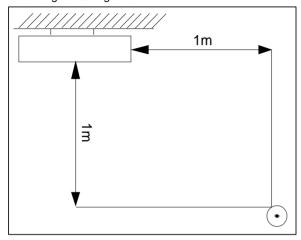
Norminal condition: indoor temperature (cooling): 27℃ DB/19℃WB, indoor temperature (heating): 20℃ DB

Outdoor temperature(cooling): 35 °C DB/24 °C WB, outdoor temperature(heating): 7 °C DB/6 °C WB

The noise level will be measured in the third octave band limited values, using a Real Time Analyser calibrated sound intensity meter. It is a sound pressure noise level. The detailed method please refer to the following information:

Installation state: the unit should be placed on the flat floor or be mounted in horizontal direction. Testing method:

mounting-on-ceiling unit:

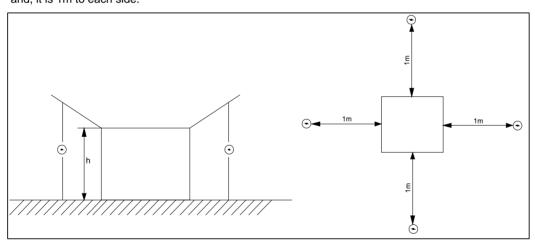


outdoor unit:

1.air outlet from side: the noise level is the average sound pressure level measured from front, left, right directions.

2.air outlet from top: the noise level is the average sound pressure level measured from front, back, left, right directions. measured point:

H (height to the ground) = (h (unit height) + 1m) /2 and, it is 1m to each side.



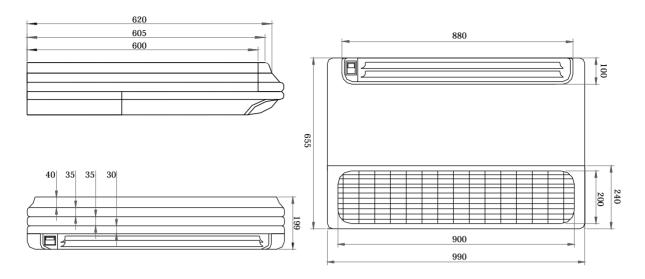
Note: ⊙ is the real time analyser position

(mm)

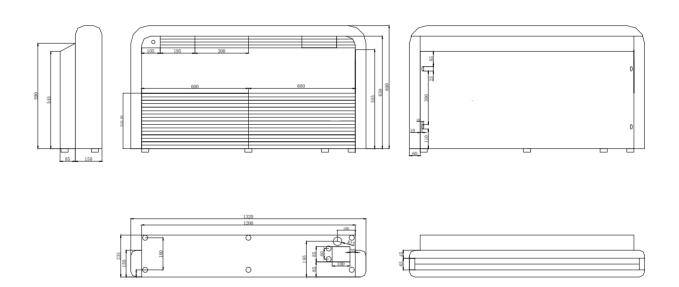


3. Dimension

3.1 HCFU-18CF03, HCFU-18HF03

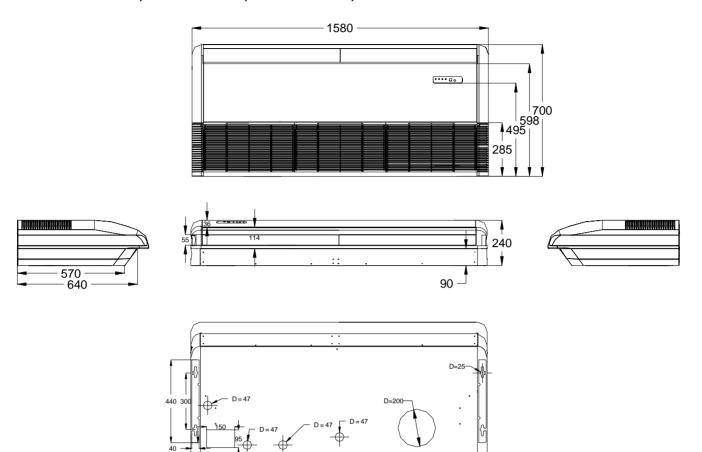


3.2 HCFU-28CF03, HCFU-28HF03





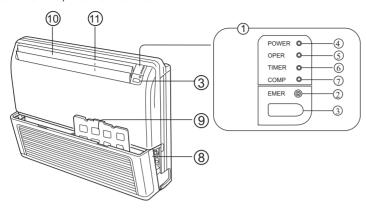
3.3 HCFU-42CF03, HCFU-42HF03, HCFU-42CH03, HCFU-42HK03





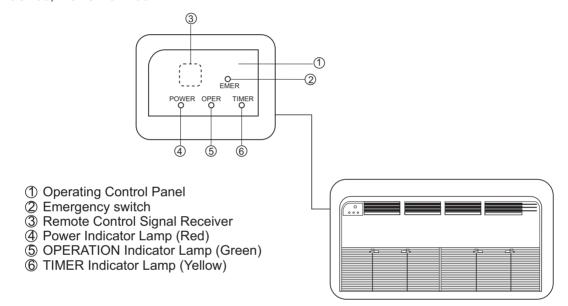
4. Part name

HCFU-18CF03, HCFU-18HF03

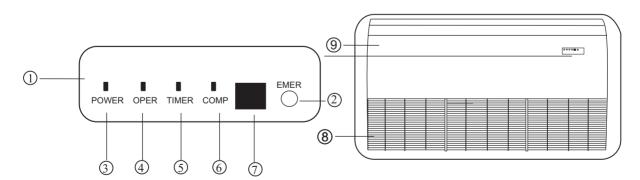


HCFU-28CF03, HCFU-28HF03

- 1 Operating Control Panel
- 2 Emergency switch
- 3 Remote Control Signal Receiver
- 4 Power Indicator Lamp
- 5 OPERATION Indicator Lamp
- 6 TIMER Indicator Lamp
- 7 Compressor Run Lamp
- 8 Intake Grill
- 9 Air Filter
- 10 Up/Down Air Direction Flaps
- 11 Right/Left Air Direction Louvers (behind Up/Down Air Direction Flaps)



HCFU-42CF03, HCFU-42HF03, HCFU-42CH03, HCFU-42HK03



- (1) Operating Control Panel
- 2 Emergency switch
- (3) Power Indicator Lamp
- (4) OPERATION Indicator Lamp
- **⑤** TIMER Indicator Lamp

- 6 Compressor Lamp
- 7 Remote receiver
- (8) Inlet Grill (Filter inside)
- (9) Front panel



5. Installation

5.1 For series 18, 28

Standard accessories:

The following installation parts are furnished. Use them as required.

No.	Accessory parts	Qty.
1	Remote controller	1
2	Battery	2
3	Wire clamp	4
4	Heat insulation sheathing	1+1
5	(Ammuna Screw	2+2
6	Screw cap	1+1
7	Remote controller bracket	1

Pipe connection requirement

Madal		Diameter		Maximum	Maximum height (between
Model	Model		Gas side		indoor and outdoor)
HCFU-18CF03 HC	CFU-18HF03	6.35 mm	12.7 mm	15 m	5 m
HCFU-28CF03 HC	CFU-28HF03	9.52 mm	15.88 mm	30 m	20 m

INSTALLATION PROCEDURE

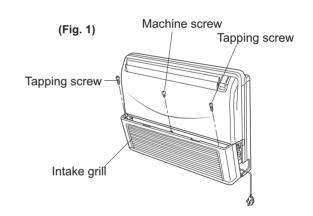
Install the room air conditioner as follows:

PREPARING INDOOR UNIT INSTALLATION

1. REMOVE THE INTAKE GRILL

Open the intake grill and remove the three or four or six screws.(Fig. 1)

Remark: The main unit can be wired before the indoor unit is installed. Select the most appropriate installation order.



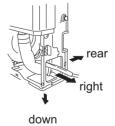
A. FLOOR CONSOLE TYPE

1. DRILLING FOR PIPING

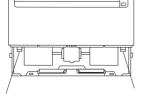
Select piping and drain directions.(Fig.2)

The piping and drain can be made in three directions as shown below.

The drain hose can be connected to either the left or right side. (Fig. 3) For series 28 only right side.



(Fig.3)

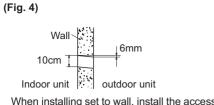


When the directions are selected, drill a 7 cm dia. hole on the wall so that the hole is tilted downward toward the outdoor for smooth water flow. When the pipe is led out from the rear, make a hole in Fig.6, at the position shown.

(Fig. 2)

Drain hose (Left side) Drain hose (Right side)

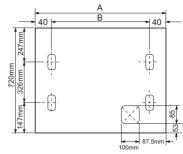




When installing set to wall, install the accessory wall bracket at the position shown in Fig.5,and mount the set to it.

99cm 50cm 24.5cm Wall bracket Side of set 6.5cm 7cm hole 3.5cm hole 12.5cm 10cm For series 18

(Fig. 5)



1320

B

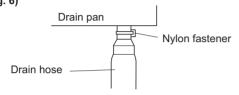
1240

Series

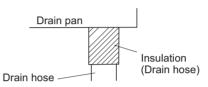
28

2. INSTALLING DRAIN HOSE

drain hose with a nylon fastener. (Fig.6) (Fig. 6)

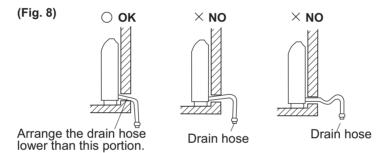


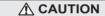




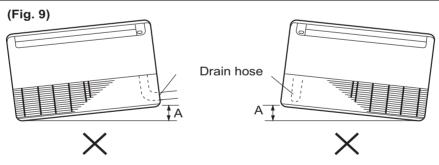
Wrap the insulation (drain hose) around the drain hose connection. (Fig.7)

Be sure to arrange the drain hose correctly so that it is leveled lower than the drain hose connecting port of the indoor unit.



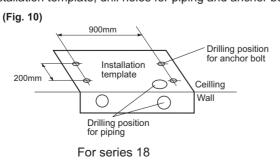


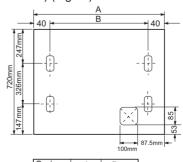
Do not install the unit drain hose side is too high. Height A should be less than 5 mm.(Fig.9)



B. UNDER CEILING TYPE

Using the installation template, drill holes for piping and anchor bolts(for holes).(Fig.10)





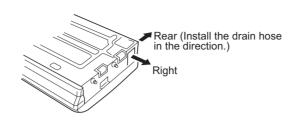
Series	Α	В
28	1320	1240



1. DRILLING FOR PIPING

Select piping and drain directions. For series 28.only rear side (Fig.11)

(Fig. 11)



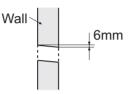
⚠ CAUTION

Install the drain hose at the rear; it should not be installed on the top or right side.

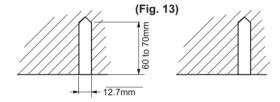
2. DRILLING HOLES FOR ANCHOR BOLTS AND INSTALLING THE ANCHOR BOLTS

When the directions are selected, drill 80mm and 50mm or 150mm dia. hole on the wall so that the hole is tilted downward toward the outdoor for smooth water flow.

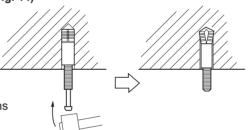
(Fig. 12)



With a concrete drill, drill four 12.7 mm dia. Holes. (Fig. 13)



(Fig. 14)

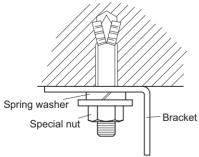


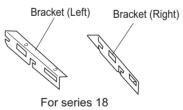
Insert the anchor bolts into the drilled holes, and drive the pins completely into the anchor bolts with a hammer. (Fig. 14)

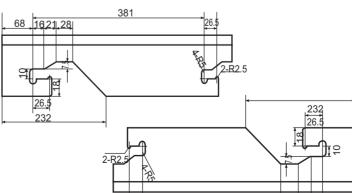
3. INSTALLING BRACKETS

Install the brackets with nuts, washers and spring washers. (Fig. 15)

(Fig. 15)







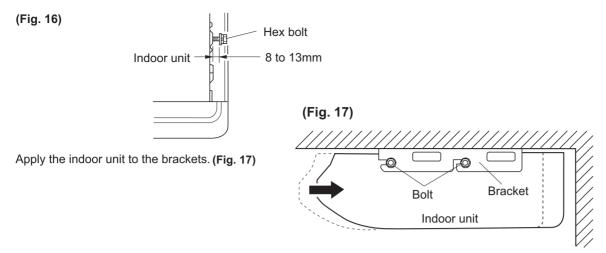
4. INSTALLING INDOOR UNIT

Reset the hex bolts as shown in Fig.16.

381 For series 28

68





5. INSTALL THE DRAIN HOSE

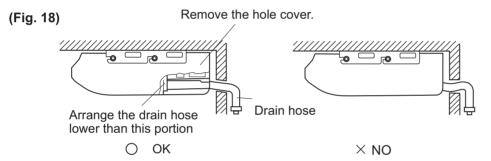
Now, securely tighten the hex bolts in both sides.

Select whether the drain hose will be connected to the left or right side.(Fig.3)

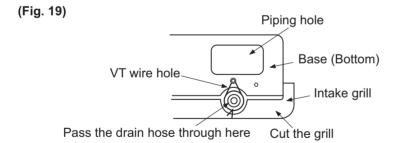
Insert the drain hose into the drain pan, then secure the drain hose with a nylon fastener. (Fig.6)

Wrap the insulation (drain hose) around the drain hose connection. (Fig.7)

Be sure to arrange the drain hose correctly so that it is leveled lower than the drain hose connecting port of the indoor unit. (Fig. 18)



When drain hose is arranged backward. Secure the drain hose with the VT wire. (Fig. 19)



GAS LEAKAGE INSPECTION

⚠ CAUTION

After connecting the piping, check the joints for gas leakage with leakage detector.

HOW TO CONNECT WIRING TO THE TERMINALS

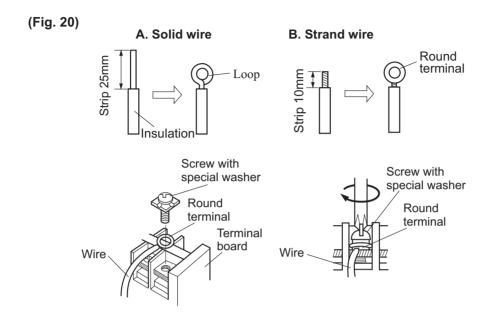
A. For solid core wiring (or F-cable) (Fig. 20A)

- (1) Cut the wire with a wire cutter or wire-cutting pliers, then strip the insulation to about 25mm of the exposed solid wire.
- (2) Using a screwdriver, remove the terminal screw(s) on the terminal board.
- (3) Using pliers, bend the solid wire to form a loop suitable for the terminal screw.
- (4) Shape the loop wire properly, place it on the terminal board and tighten securely with the terminal screw using a screw driver.



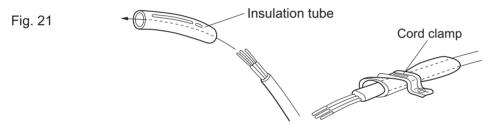
B. For strand wiring (Fig. 20B)

- (1) Cut the wire with a wire cutter or wire-cutting pliers, then strip the insulation to about 10mm of the exposed strand wirin
- (2) Using a screwdriver, remove the terminal screw(s)on the terminal board.
- (3) Using a round terminal fastener or pliers, securely clamp a round terminal to each stripped wire end.
- (4) Position the round terminal wire, and replace and tighten the terminal screw using a screw driver.



HOW TO FIXED CONNECTION CORD AND POWER CABLE AT THE CORD CLAMP

After passing the connection cord and power cable through the insulation tube, fasten it with the cord clamp, as shown in Fig. 21



Use VW-1, 0.5 to 1.0 mm thick, PVC tube as the insulation tube.

ELECTRICAL WIRING

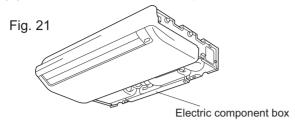
CAUTION

- (1) Match the terminal block numbers and connection cord colors with those of the outdoor unit.
 - Erroneous wiring may cause burning of the electric parts.
- (2) Connect the connection cords firmly to the terminal block. Imperfect installation may cause a fire.
- (3) Always fasten the outside covering of the connection cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.)
- (4) Always connect the ground wire.



1. INDOOR UNIT SIDE

(1) Remove the electric component box.

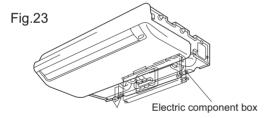


Remove the four tapping screws.

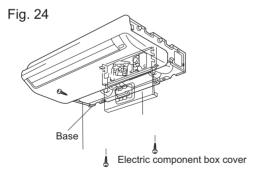
A CAUTION

Do not remove the screws. If the screws are removed, the electric component box will fall.

(2) Pull out the electric component box.



(3) Remove the electric component box cover.



Remove the three tapping screws.

A CAUTION

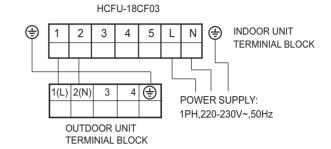
Be careful not to pinch the lead wires between the electric component box and base.

(4) Wiring

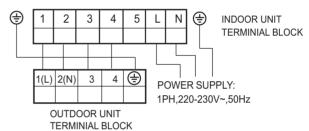
(1) Remove the cord clamp.

- (2) Process the end of the connection cords to the dimensions shown in Fig. 25
- (3) Connect the end of the connection cord fully into the terminal block.
- (4) Fasten the connection cord with a cord clamp.
- (5) Fasten the end of the connection cord with the screw.

Fig. 25



HCFU-18HF03



INDOOR UNIT TERMINIAL BLOCK

LN 3 4 5

LN 3 4 5

LN 3 4 5

TERMINIAL BLOCK

LN 9

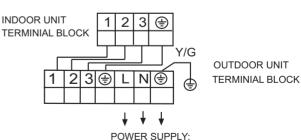
Y/G 1 2 3 4 5

TERMINIAL BLOCK

HCFU-28HF03

POWER SUPPLY:

1PH,220-230V~,50Hz



POWER SUPPLY: 1PH,220-230V~,50Hz HCFU-28CF03



5.2 For series 42

ACCESSORIES

Standard accessories:

No.	Accessory parts	Qty.	Remarks
1	Remote controller	1	
2	Battery	2	
3	Wire clamp	4	
4	Heat insulation sheathing	1+1	
5	(Aminina Screw	2+2	
6	Drain hose	1	
7	Screw cap	1+1	
8	Flat washer	8	
9	Remote controller bracket	1	

Optional parts

Mark	Parts name		
A	Adhesive tape		
B	Saddle (L.S) with screws		
©	Drain hose		
D	Heat insulation material		
E	Piping hole cover		
F	Putty		
G	Plastic clamp		

Please ask the dealer or specialist to install, never try by the users themselves. After the installation please be sure of the following conditions.

WARNING!

• Please call dealer to install the air-conditioner.

Incorrect installation may cause water leaking, shock and fire hazard.

CAUTION!

- Air-conditioner can't be installed in the envi-ronment with inflammable gases because the inflammable gases near to air-conditioner may cause fire hazard.
- Installed electrical-leaking circuit breaker. It easily cause electrical shock without circuit breaker.
- Connect earthing wire.

Earthing wire should not be connected to the gas pipe, water pipe, lightning rod or phone line, incorrect earthing may cause



Earthing

• Use discharge pipe correctly to ensure efficient discharge.

Incorrect pipe use may cause water leaking.



[Location]

- Air-conditioner should be located in well-vented and easily-accessible place.
- Air-conditioner should not be located in the following places:
 - (a) Places with machine oils or other oil vapours.
 - (b) Seaside with high salt content in the air.
 - (c) Near to hot spring with high content of sulfide gases.
 - (d) Area with frequent fluctuation of voltage e.g. factory, etc.
 - (e) In vehicles or ships.
 - (f) Kitchen with heavy oil vapour or humidity.
 - (g) Near to the machine emitting electric-magnetic waves.
 - (h) Places with acid, alkali vapuor.
- TV, radio, acoustic appliances etc are at least

- supply wire, connecting wire, pipes, otherwise images may be disturbed or noises be created.
- As required, take measures against heavy snow.

[Wiring]

 Air-conditioner should be equipped with special power supply wire.

[Operating noise]

- Choose the following locations:
- (a) Capable of supporting air-conditioner weight,don't increase operating noise and vibration.
- (b) Hot vapour from outdoor unit outlet and operating noise don't disturb neighbour.
- No obstacles around the outdoor unit outlet.

For authorized service personnel only

⚠ WARNING

- (1) For the room air conditioner to operate satisfactorily, install it as outlined in this installation manual.
- (2) Connect the indoor unit and outdoor unit with the room air conditioner piping and cords available from our standard parts. This in stallation manual describes for the correct connections so that the installation set available from our standard parts should be used.
- (3) Installation work must be performed in accordance with national wiring standardsby authorized personnel only.
- (4) Never cut the power cord, lengthen or shorten the cord, or change the plug.
- (5) Also, do not use an extension cord.
- (6) Plug in the power cord plug firmly. If the receptacle is loose, repair it before using the air conditioner.
- (7) Do not turn on the power until all installation work is done.
- Be careful not to scratch the room air conditioner when handing it.
- After installation, explain correct operation to the customer, according to the operating manual.
- Let the customer keep this installation manual because it will be used when the room air conditioner is serviced or moved.

SELECTING THE MOUNTING POSITION



• Install at a place that can withstand the weight of the indoor units and install positively so that the units will not topple or fall.

⚠ CAUTION

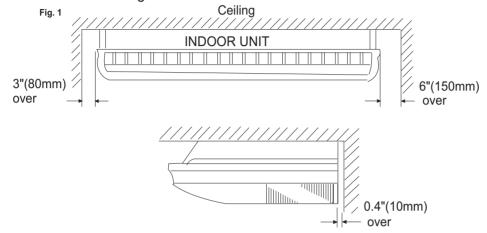
- Do not install where there is the danger of combustible gas leakage.
- Do not install near heat sources.
- If children under 10 years old may approach the unit, take preventive measures so that they cannot reach the unit.



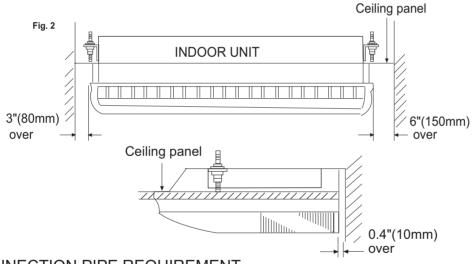
- (1) Install the indoor unit level on a strong wall which is not subject to vibration.
- (2) The inlet and outlet ports should not be obstructed: the air should be able to blow all over the room.
- (3) Do not install the unit where it will be exposed to direct sunlight,
- (4) Install the unit where connection to the outdoor unit is easy.
- (5) Install the unit where the drain pipe can be easily installed.
- (6) Take servicing, etc.into consideration and leave the spaces shown in (Fig.1 or 2).

Also install the unit where the filter can be removed.

For mounted on the ceiling:



For half concealed installation:



CONNECTION PIPE REQUIREMENT

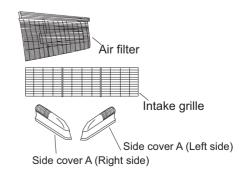
Madal	Diam	eter	Maximum	Maximum height (between indoor and outdoor)	
Model	Liquid side	Gas side	length		
For series 42	9.52 mm	19.05mm	50 m	30 m	

INSTALLATION PROCEDURE

Install the room air conditioner as follows:

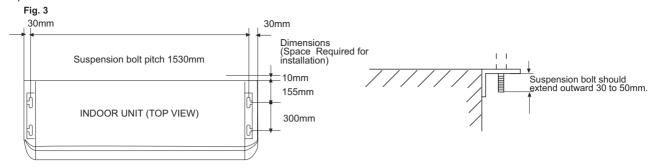
1) REMOVE THE INTAKE GRILL AND SIDE COVER

- (1) Remove the two Air filters
- (2) Remove the two intake grilles
- (3) Remove the Side cover A (Right and left side)
- (4)This air conditioner can be set up to intake fresh air .



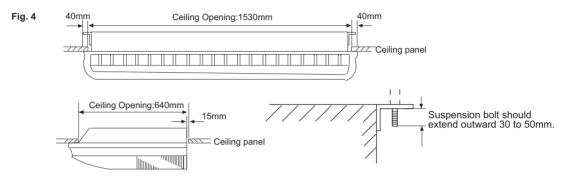


2) LOCATION OF CEILING SUSPENSION BOLTS



For half-concealed installation

Supension-bolt pitch should be as shown in Fig.4.

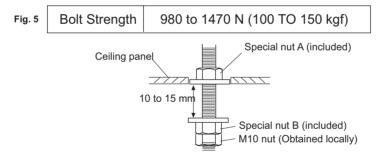


DRILLING THE HOLES AND ATTACHING THE SUAPENSION BOLTS

(1) Drill 25mm-diameter holes at the suspension-bolt locations.

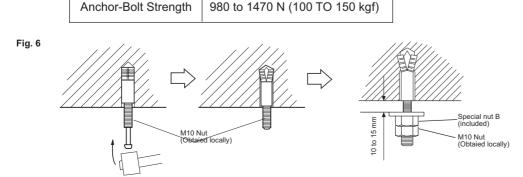
(The two special nuts are provided with the unit. The M10 nut must be obtained locally.) Refer to Fig.5.

(2) Install the bolts, then temporarily attach Special nuts A and B and a normal M10 nut to each bolt.



IF USING ANCHOR BOLTS

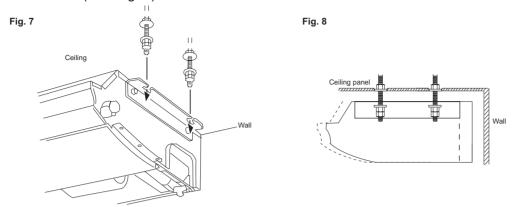
- (1) Drill holes for anchor bolts at the locations at which you will set the suspension bolts. Note that anchor bolts (to be obtained locally).
- (2) Install the anchor bolts ,then temporarily attach special nut "B" (included) and a locally-procurde M10 nut to each of the bolts. (See Fig.6.)





INSTALLING THE INDOOR UNIT

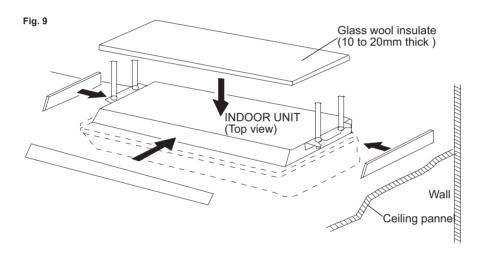
(1) Lift unit so that suspension bolts pass through suspension fittings at the sides (four places), and slide the unit back. (See Fig. 8.)



(2) Fasten the indoor unit into place by tightening-up the special "B", blots and the M10 nuts. Make sure that unit is secure and will not shift back and forth.

FOR HALF-CONCESLED INSTALLATION

When installing the indoor unit in a semi-concesled orientation, make sure to reinforce the insulation of the unit on all sides. Drops of water may fall from the unit if it is not thoroughly insulated.



CAUTION

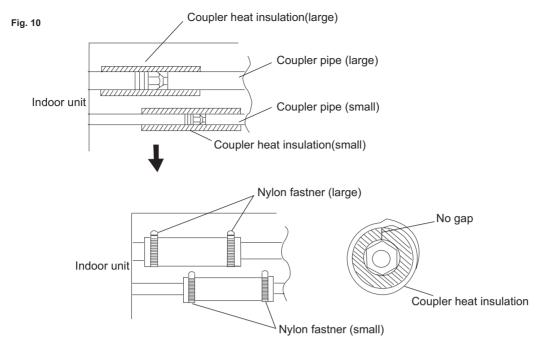
In order to check the drainage, be sure to use a level during installation of the indoor unit. If the installation site of the indoor unit is not level, water leskage may occur

INSTALLING THE COUPLER HEAT INSULATION

After checking for gas leaks, insulate by wrapping insulation around the two parts (large and small) of the indoor unit coupling, using the coupler hest insulation.

After installling the coupler heat insulation, wrap both ends with vinyl tape so that there is no gap. Secure both ends of the heat insulation material using nylon fasteners.





When using an auxiliary pipe, make sure that the fastener used is insulated in the sane way.

DRAIN PIPING

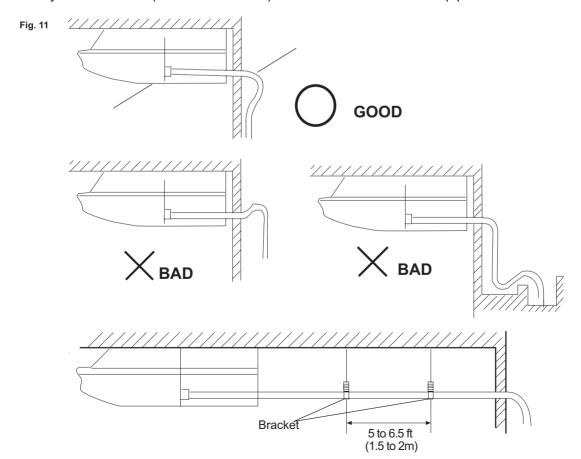
Install the drain pipe with downward gradient (1/50 to 1/100) and so there are no rises or traps in the pipe. Use general hard polyvinyl chloride pipe (VP25)[outside diameter 38 mm.]

During installation of the drain pipe, be careful to avoid applying pressure to the drain point of the unit.

When the pipe is long, install supporters (Fig 11).

Do not perform air bleeding.

Always heat insulate (8mm or over thick) the indoor side of the drain pipe.





(1) Install insulation for the drain pipe.(See Fig.12 and 13)

Cut the included insulation material to an appropriate size and adhere it to the pipe.

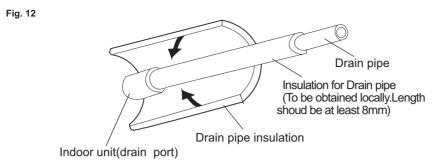
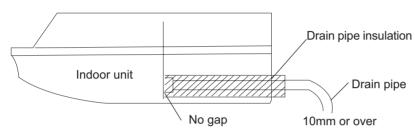
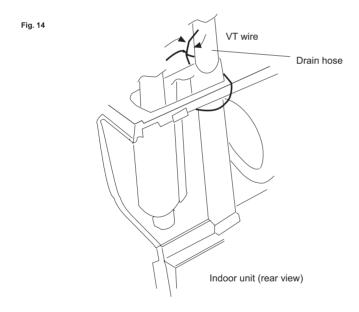


Fig. 13



(2) If "Right rear piping ":fasten the drain pipe with VT wires so that the pipe slopes correctly within the indoor unit.



ELECTRICAL WIRING

HOW TO CONNECT WIRING TO THE TERMINALS

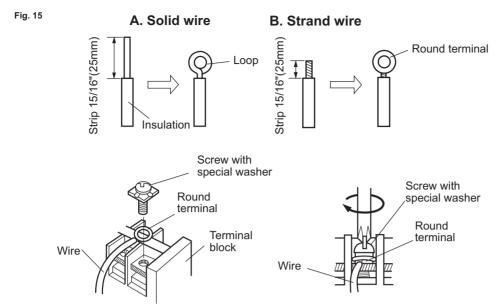
A.For solid core wiring (or F-cable)

- (1)Cut the wire and with a wire cutter or wire-cutting pliers, then strip the insulation to about 15/16"(25mm) of expose the solid wire.
- (2)Using a screwdriver ,remove the terminal screw(s) on the terminal board.
- (3)Using pliers, bend the solid wire to form a loop suitable for the terminal screw.

B.For strand wiring

- (1)Cut the wire and with a wire cutter or wire-cutting pliers, then strip the insulation to about 3/8"(10mm) of expose the solid wire.
- (2)Using a screwdriver ,remove the terminal screw(s) on the terminal board.





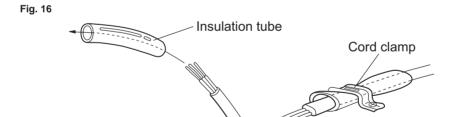
HOW TO FIX CONNECTION CORD AND POWER CABLE AT THE CORD CLAMP

After passing the connection cord and power cable through the insulation tube, fasten it with the cord clamp, as shown in Fig.16

ELECTRICAL REQUIREMENT

• Electric wire size and fuse capacity:

Series	HCFU-42CF03 HCFU-42HF03	
Connection	MAX	3.5
cord (mm²)	MIN	2.0
Fuse capacity	30	



Use VW-1, 0.5 to 1.0 mm thick, PVC tube as the insulation tube.

CAUTION

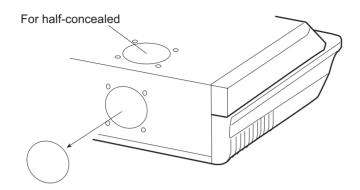
- (1) Match the terminal block numbers and connection cord colors with those of the outdoor unit. Erroneous wiring may cause burning of the electric parts.
- (2) Connect the connection cords firmly to the terminal block. Imperfect installation may cause a fire.
- (3) Always fasten the outside covering of the connection cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.)
- (4) Always connect the ground wire.



FRESH-AIR INTAKE

(1)Take away the knockout hole for the fresh-air intake, as shown in Fig. 17.(If using half-concealed installation ,take down the top knockout hole instead)

Fig. 17

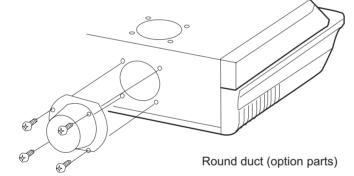


CAUTION

- (1)When removing the cabinet(iron plate), be careful not to damage the indoor unit internal parts and surrounding area(outer case).
- (2)When processing the cabinet(iron plate), be careful not to injury yourself with burrs, etc.

(2)Fasten the round flange (optional) to the fresh air intake, as shown in Fig.18.(If using half-concealed installation, attach to the top.)

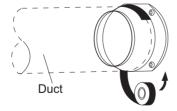




[After completing "INDOOR UNIT INSTALLATION"....]

- (3)Connect the duct to the round flange.
- (4)Seal with a band and vinyl tape, etc. so that air does not leak from the connection.

Fig. 19



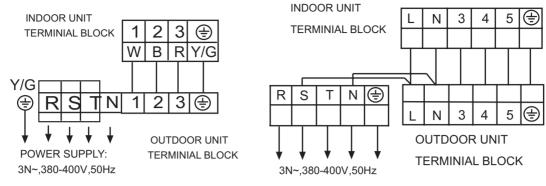
CONNECTION CORDS

- (1) Remove the cord clamp.
- (2) Put the end of the connection cords to the positions shown in Fig.20.
- (3) Connect the end of the connection cord fully into the terminal block.
- (4) Fasten the connection cord with a cord clamp.
- (5) Fasten the end of the connection cord with the screw.
- (6) The power cable and connecting cable are self-provided.



(7) L,N and 1,2 are equal on the terminal block.

Fig. 20



HCFU-42CF03 HCFU-42CH03 HCFU-42HK03

HCFU-42HF03

⚠ WARNING

- (1) Always use a special branch circuit and install a special receptacle to supply power to the room air conditioner.
- (2) Use a circuit breaker and receptacle matched to the capacity of the room air conditioner.
- (3) The circuit breaker is installed in the permanent wiring. Always use a circuit that can trip all the poles of the wiring and has an isolation distance of at least 3mm between the contacts of each pole.
- (4) Perform wiring work in accordance with standards so that the room air conditioner can be operated safely and positively.
- (5) Install a leakage circuit breaker in accordance with the related laws and regulations and electric company standards.

↑ CAUTION

- (1) The power source capacity must be the sum of the room air conditioner current and the current of other electrical appliances. When the current contracted capacity is insufficient, change the contracted capacity.
- (2) When the voltage is low and the air conditioner is difficult to start, contact the power company the voltage raised.

TEST RUNNING

1. CHECK ITEMS

1) INDOOR UNIT

- (1) Is operation of each button on the remote control unit normal?
- (2) Does each lamp light normally?
- (3) Do not air flow direction louvers operate normally?
- (4) Is the drain normal?

2) OUTDOOR UNIT

- (1) Is there any abnormal noise and vibration during operation?
- (2) Will noise, wind, or drain water from the unit disturb the neighbors?
- (3) Is there any gas leakage?



Duct indoor unit (HDU-18~HDU-50 and AD96NAHAEA)

1.	Features	69
2.	Specifications	70
3.	Dimensions	82
l.	Part name	84
5.	Installation	85
	5.1 For ceiling concealed duct type	
	(series 18, 28)	.85
	5.2 For high static pressure duct type	
	(series 42, 50, 96)	.91



1. Features

High efficiency filter & Static pressure optional

The unit adopts G3 grade filter, can efficiently filter the dirt etc, and improve the room air quality, at the same time, the filter can pull out from downside, convenient for maintenance and cleaning.



Ultra-thin design and two-side drainage pipe

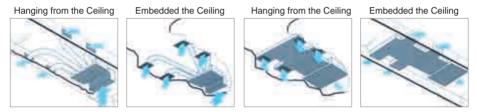
For the ceiling concealed duct type indoor units, the unit thickness is only 220mm, ultra-thin design; the depth is 500mm, and space saving, completely matching with the indoor decoration.



There are two drainage pipes designed on the ceiling concealed indoor units, it is convenient for the drainage piping design for installation.

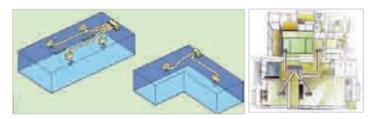
Multi-mode for installation

The indoor unit can be installed with an air return duct or without an air return duct according to the installation need.



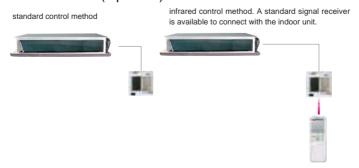
Free setting of air discharge duct

The number of the airflow outlet and its installation position can be freely selected according to the environment of the room, sufficiently considering the load of the room and the uniform temperature of the room to realize more perfect comfort.



Variable control mode

The indoor unit can use one wired remote controller, also, it can use a remote controller (with new remote reciever) and central controller(optional).





2. Specifications

item			Mod	lel I	HDI I-1	8CF03	
Function		T I			cooling	heating	
Capacity			BTU/h	17000	/ / /		
				5	/		
Capacity			kW		/		
	ble heat ratio				75%	/	
	power input			W	1850	/	
	power input			W	2300	/	
	or COP			W/W	2.7	/	
Dehu	midifying capacity			10 - ³xm³/h		.0	
Powe	r cable			section	3G×2.	5mm2	
Signa	l cable			section	36~2	.0mm2	
Conne	ecting cable			section	30,2	OTTITIZ	
Wired	control cable	for wired control unit		section	/	4x0.33mm² shield wire	
Powe	r source			N, V, Hz	1, 220-	230, 50	
Runni	ng /Max.Running	current		A/A	8.5	5/10.5	
Start (Current			Α	4	.0	
Class	of anti electric sho	ock			/	/	
	operating pressure			Мра	2	.8	
	operating pressure			Мра		.8	
ax.	Unit model (color)			ivipa	HDU-18CF03(IND		
	Crit Hoder (color)	Type × Number	 		Centrifu		
		Speed(H-M-L)		r/min		0/390±30r/min	
		·				02	
	Fan	Fan motor output power		kW			
		Air-flow(H-M-L)		m³/h		780	
ndoor unit		Standard static pressure		Pa		0	
or u		Max.static pressure		Pa	20		
opi	Heat exchanger Dimension	Type / Diameter		mm	TP2M / 9.52x0.36		
드		Temp. scope		$^{\circ}$	cooling: 43~60 heating:6~7		
		External	(LxWxH)	mm×mm×mm	1090×500×218		
	Difficilision	Package	(LxWxH)	mm×mm×mm	1161×536×269		
	Control type (Remote /wired /model)				W	IRED	
	Noise level (H-M-L)			dB(A)	46/4	4/40	
	Weight (Net / Shipping)			kg / kg	25	/29	
	Unit model (color)				HDU-18CF03(OUTDOOR) (WHITE)		
	(00.00)	Model / Manufacture			TH310VEEC	MITSUBISHI	
		Oil model			DIAMOND MS-56		
	Compressor	Oil charging			520 cm3		
	•	Protection type			Inner therm	al protection	
		Starting method				t start	
		Type × Number				l × 1	
iţ		Speed		r/min)±30	
r ur	Fan	Fan motor output power		kW		03	
00		Air-flow(H-M-L)		m³/h		600	
Outdoor unit		, ,				9.52x0.36	
0	Heat exchanger	Type / Diameter		mm °C		9.52x0.36) / heating: 6~7	
	-	Temp. scope	/L 14/ · · ·	$^{\circ}$			
	Dimension	External	(LxWxH)	mmxmmxmm		40×640	
	Package		(LxWxH)	mmxmmxmm		06×750	
	Refrigerant control method		j	mm/mm	Capillary tube		
	Defrosting		1		Automatic		
	Noise level		<u> </u>	dB(A)	58		
	Weight (Net / Shipping)		•	kg / kg	59/66		
	Refrigerant	Type / Charge		g		1930	
		Liquid		mm		35	
<u>ত</u>	Pipe	Gas		mm		2.7	
PIPING		Drain hose		mm	PVC	16/12	
₫	Connecting Method				Fla	red	
	MAX Drop			m		5	
	Between I.D &O.I	MAX.Piping length		m	1	5	



item			Mod	lel	HDU-1	8HF03	
Functi	ion				cooling	heating	
Capac				BTU/h	17000	18700	
_	•			kW	5	5.5	
Capacity Sensible heat ratio			KVV	75%	/		
Total power input			W	1800	1850		
				W	2200	2400	
	power input			• • •	2.78	2.97	
	or COP			W/W			
	midifying capacity			10 - ³ ×m ³ /h	2 3G×2.		
	r cable			section	3Gx2.	SIIIIIZ	
	l cable			section	3G×2.0mm2-	+2×0.75mm2	
	ecting cable			section	,	4 . 0 . 20 ma ma2 a b i a l al ima	
	control cable	for wired control unit		section	1 000	4x0.33mm² shield wire	
	r source			N, V, Hz		230, 50	
	ng /Max.Running	current		A/A		heating8.5/11.0	
	Current			Α	4	,	
	of anti electric sho	ock					
	t breaker			Α	/	30	
	operating pressure			Мра	2		
	operating pressure			Мра	2.		
	Unit model (color)	1			HDU-18HF03(IND		
		Type x Number			Centrifu	•	
		Speed(H-M-L)		r/min	700±30/550±3	0/390±30r/min	
	Fon	Fan motor output power		kW	0.0	02	
1	Fan	Air-flow(H-M-L)		m³/h	78	30	
ij		Standard static pressure		Pa	()	
Indoor unit		Max.static pressure		Pa	2	0	
90	Heat exchanger	Type / Diameter		mm	TP2M / 9	TP2M / 9.52x0.36	
<u> </u>		Temp. scope		°C	cooling: 43~60) heating:6~7	
		External	(LxWxH)	mm×mm×mm	1090×5		
	Dimension	Package	(LxWxH)	mm×mm×mm	1161×5		
	Control type (Remote /wired /model)		(LATTAIT)			RED	
	Noise level (H-M-L)			dB(A)	46/4		
	Weight (Net / Shipping)			kg / kg	25		
	Unit model (color)			Ng / Ng	HDU-18HF03(OUT		
	Office frieder (00101)	Model / Manufacture			TH310VEEC	•	
		Oil model			DIAMON		
	Compressor	Oil charging			52		
	Compressor	Protection type				al protection	
		Starting method			direct	•	
1		Type × Number			Axia		
		• •		r/min		±30	
ınit	Fan	Speed		r/min	0.0		
or u		Fan motor output power		kW	25		
Outdoor unit		Air-flow(H-M-L)		m³/h			
Ori	Heat exchanger	Type / Diameter		mm		0.52x0.36	
-		Row / Fin pitch				1.85	
		Temp. scope		℃		/ heating: 6~7	
i l	Dimension	External	(LxWxH)	mm×mm×mm	810×28		
	Package		(LxWxH)	mm×mm×mm	960×40		
	Refrigerant control method			mm/mm		ry tube	
	Defrosting					matic	
1	Noise level		<u> </u>	dB(A)	5		
,	Weight (Net / Shipping)			kg / kg	59/		
			1	g	R22/	1700	
	Weight (N Refrigerant	Type / Charge					
	Refrigerant	Type / Charge Liquid		mm	6.5		
				1 1	12	2.7	
	Refrigerant	Liquid		mm		2.7	
PING	Refrigerant	Liquid Gas Drain hose od		mm mm	12 PVC	2.7	
PIPING	Refrigerant Pipe	Liquid Gas Drain hose od		mm mm	12 PVC Fla	1.7 16/12	



item			Mod	lel	HDU-2	8CF03	
Funct	ion				cooling	heating	
Capa	city			BTU/h	24000	/	
Capa	•			kW	7.1	/	
	ble heat ratio				75% /		
Total	power input			W	2500	/	
Max.	power input			W	3000	/	
	or COP			W/W	2.84	/	
Dehu	midifying capacity			10 - ³×m³/h	1.	7	
	r cable			section	3G×4.	0mm2	
Signa	l cable			section	4.0.7		
Conn	ecting cable			section	4×0.75	omm2	
	r source			N, V, Hz	1, 220-2	230, 50	
Runni	ing /Max.Running	current		A/A	12/1	4.8	
Class	of anti electric sho	ock			I	/	
Max.	operating pressure	e of heat side		Мра	2.	8	
	operating pressure			Мра	2.	8	
	Unit model (color)			,	HDU-28CF03(IND	OOR) (WHITE)	
	(Type × Number			Centrifu		
		Speed(H-M-L)		r/min	1120±30/970	•	
	_	Fan motor output power		kW	0.0		
	Fan	Air-flow(H-M-L)		m³/h	12	00	
±Ξ		Standard static pressure		Pa	()	
un		Max.static pressure		Pa	2	0	
ndoor unit		Type / Diameter		mm		1	
pul	Heat exchanger	Temp. scope		°C	cooling: 43~60) heating:6~7	
		External	(LxWxH)	mm×mm×mm	1090×5		
	Dimension	Package	(LxWxH)	mm×mm×mm	1161×5		
	Control type (Remote /wired /model)		(EXTINITY			RED	
	Noise level (H-M-L)			dB(A)	47/4		
		let / Shipping)		kg / kg	25.5		
	Unit model (color)				HDU-28CF03(OUT		
	(00.00)	Model / Manufacture			LH45VBAC I	•	
		Oil model			DIAMOND	MS-32(N-1)	
	Compressor	Oil charging			90		
		Protection type			Inner therma	al protection	
		Starting method			direct	•	
		Type × Number			Axia	l x 1	
Outdoor unit	Fan	Speed		r/min	840	±50	
oor		Fan motor output power		kW	0.0	06	
utde		Type / Diameter		mm	TP2M / 9	.52x0.36	
Ō	Heat exchanger	Temp. scope		°C	cooling: 43~60	/ heating: 6~7	
		External	(LxWxH)	mm×mm×mm	960×83		
	Dimension	Package	(LxWxH)	mm×mm×mm	1050×9		
	Refrigerant control method			mm/mm	Capilla		
	Defrosting		•	'	Autor	matic	
	Noise level			dB(A)	5		
	Weight (Net / Shipping)			kg/kg	71/	/85	
	Refrigerant	Type / Charge		g	R22/2	2800	
	Pipe	Liquid		mm	9.5	52	
G		Gas		mm	15.	88	
PIPING		Drain hose		mm	PVC ·		
∃	Connecting Method				Fla	red	
	MAX.Drop			m	1:	15	
	Between I.D &O.I	MAX.Piping length		m	3		



item			Mod	lel	HDU-2	28HF03
Funct	ion				cooling	heating
Capa	city			BTU/h	24000	26600
Capa	•			kW	7.1	8
	ble heat ratio				75%	/
Total	power input			W	2450	2600
Max.	power input			W	3000	2900
EER (or COP			W/W	2.9	3.08
Dehu	midifying capacity			10 - ³xm³/h	1	.7
Powe	r cable			section	3G×4	.0mm2
Signa	l cable			section	6,,0.7	'Emm?
Conn	ecting cable			section	6XU.7	5mm2
Powe	r source			N, V, Hz	1, 220-	230, 50
Runn	ing /Max.Running	current		A/A	cooling 11.5/14.8	heating12.5/14.5
Class	of anti electric sho	ock			I	/
Max.	operating pressure	e of heat side		Мра	2	.8
Max.	operating pressure	e of cold side		Мра	2	8
	Unit model (color)				HDU-28HF03(IND	OOOR) (WHITE)
		Type x Number			Centrif	ugal x 1
		Speed(H-M-L)		r/min	1120±30/97	0±40/840±50
	Fan	Fan motor output power		kW	0.	08
	ran	Air-flow(H-M-L)		m³/h	12	200
ŧΞ		Standard static pressure		Pa		0
ndoor unit		Max.static pressure		Pa	2	20
oop	Heat exchanger	Type / Diameter		mm		1
ŭ		Temp. scope		$^{\circ}\!\mathbb{C}$	cooling: 43~6	0 heating:6~7
		External	(LxWxH)	mm×mm×mm	1090×5	500×218
	Dimension	Package	(LxWxH)	mm×mm×mm	1161×5	536×269
	Control type (R	emote /wired /model)			W	IRED
	Noise level (H	I-M-L)		dB(A)	47/4	15/43
	Weight (N	et / Shipping)		kg / kg	25.	5/28
	Unit model (color)				HDU-28HF03(OUT	•
		Model / Manufacture			LH45VBAC	MITSUBISHI
		Oil model			DIAMONE) MS-32(N-1)
	Compressor	Oil charging				00
		Protection type			Inner therm	al protection
		Starting method			direc	t start
ξ		Type x Number				al x 1
Outdoor unit	Fan	Speed		r/min)±50
oop		Fan motor output power		kW		06
Out	Heat exchanger	Type / Diameter		mm		9.52x0.36
		Temp. scope		$^{\circ}\mathbb{C}$		0 / heating: 6~7
	Dimension	External	(LxWxH)	mm×mm×mm		80×960
		Package	(LxWxH)	mm×mm×mm		110×980
	Refrigerant contro	ol method		mm/mm	<u>'</u>	ary tube
	Defrosting	Г				matic
	Noise level			dB(A)		66
	,	let / Shipping)		kg / kg		/85
	Refrigerant	Type / Charge		g		/2800
	D:	Liquid		mm		52
NG	Pipe	Gas		mm		1.88
PIPING	0	Drain hose	-	mm		16/12
"	Connecting Metho		I			ared
	Between I.D &O.I	MAX.Drop		m		5
	l	MAX.Piping length		m	Ç	30



item			Mod	lel T	HDU-42	CF03/H
Funct	ion		IVIOC		cooling	heating
				BTU/h	42600	/
Capa	•			kW	12.5	
Capa	ble heat ratio			KVV	75%	
	power input			W	4700	
	<u>' </u>			-	5700	
	power input			W		
	or COP			W/W	2.66	7
	midifying capacity			10 - ³ xm ³ /h	5. 5×2.5	
	r cable			section	5×2.5	offiffi2
	I cable			section	4×0.75	5mm2
	ecting cable			section		100 50
	r source			N, V, Hz	3, 380-	
	ng /Max.Running	current		A/A	cooling	
	Current			Α	5	0
	of anti electric sho				1	1
	operating pressure			Мра	2.8	
Max.	operating pressure			Мра	2.8	/
	Unit model (color)				HDU-42CF03/H(INI	
		Type x Number			Centrifu	<u> </u>
		Speed(H-M-L)		r/min	1070±30/860	
	Fan	Fan motor output power		kW	0.2	
	i aii	Air-flow(H-M-L)		m³/h	1560-	2580
ij		Standard static pressure		Pa	5	0
Indoor unit		Max.static pressure		Pa	10	00
oop		Type / Diameter		mm	TP2M / 9.52x0.36	
<u> </u>	Heat exchanger	Temp. scope		$^{\circ}$	cooling: 43~60	heating:6~7
		External	(LxWxH)	mm×mm×mm	1197×830×350	
	Dimension	Package	(LxWxH)	mm×mm×mm	1430×9	40×420
	a				14/1	DED
	Control type (R	emote /wirea /modei)			VVI	RED
		emote /wired /model) -M-L)		dB(A)	55/5	
	Noise level (H			dB(A)		2/47
	Noise level (H	-M-L) et / Shipping)		· · ·	55/5	2/47 /77
	Noise level (H Weight (N	-M-L) et / Shipping)		· · ·	55/5 62/	2/47 /77 TDOOR) (WHITE)
	Noise level (H Weight (N	-M-L) et / Shipping)		· · ·	55/5 62/ HDU-42CF03/H(OU ⁻	2/47 /77 TDOOR) (WHITE) 1L / DAIKIN
	Noise level (H Weight (N Unit model (color)	-M-L) et / Shipping) Model / Manufacture Oil model		· · ·	55/5 62/ HDU-42CF03/H(OU ⁻ JT160BCBY	2/47 /77 TDOOR) (WHITE) /1L / DAIKIN K/DAPHNE SE56P
	Noise level (H Weight (N	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging		· · ·	55/5 62/ HDU-42CF03/H(OU ⁻ JT160BCBY SUNISO 4GSDID-I	2/47 /77 TDOOR) (WHITE) /1L / DAIKIN K/DAPHNE SE56P -1700
	Noise level (H Weight (N Unit model (color)	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type		· · ·	55/5 62/ HDU-42CF03/H(OU ⁻ JT160BCBY SUNISO 4GSDID-I 1500-	2/47 /77 FDOOR) (WHITE) /1L / DAIKIN K/DAPHNE SE56P -1700 OLL
	Noise level (H Weight (N Unit model (color)	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type		· · ·	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-1 1500- SCR Inner therma	2/47 /77 FDOOR) (WHITE) 11 / DAIKIN K/DAPHNE SE56P -1700 OLL al protection
	Noise level (H Weight (N Unit model (color)	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method		· · ·	55/5 62/ HDU-42CF03/H(OUT) JT160BCBY SUNISO 4GSDID-1 1500- SCR Inner therma	2/47 /77 FDOOR) (WHITE) 1L / DAIKIN K/DAPHNE SE56P -1700 OLL al protection
ojt.	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number		kg / kg	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-1 1500- SCR Inner therma	2/47 /77 TDOOR) (WHITE) 1L / DAIKIN K/DAPHNE SE56P -1700 OLL al protection start I x 1
r unit	Noise level (H Weight (N Unit model (color)	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed		kg / kg	55/5 62/ HDU-42CF03/H(OUT) JT160BCBY SUNISO 4GSDID-1 1500- SCR Inner thermal direct Axia 740	2/47 /77 /TDOOR) (WHITE) /1L / DAIKIN K/DAPHNE SE56P /1700 OLL all protection /* start I x 1 ±50
door unit	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power		kg / kg r/min kW	55/5 62/ HDU-42CF03/H(OUT) JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal	2/47 /77 TDOOR) (WHITE) 1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start I x 1 ±50 56
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L)		kg / kg r/min kW m³/h	55/5 62/ HDU-42CF03/H(OUT) JT160BCBY SUNISO 4GSDID-1 1500- SCR Inner thermal direct Axia 740 0.1	2/47 (777 (777 (777 (777 (777 (777 (777 (
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter		kg / kg r/min kW	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9	2/47 (777 (777 (777 (777 (777 (777 (777 (
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch		r/min kW m³/h mm	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-1 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9	2/47 (777 (777 (777 (777 (777 (777 (777 (
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope		r/min kW m³/h mm	55/5 62/ HDU-42CF03/H(OUT) JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43-60	2/47 (777 (777 (7DOOR) (WHITE) (1L / DAIKIN (/DAPHNE SE56P -1700 OLL al protection (start) I × 1 ±50 56 00 0.52x0.36 .65 I / heating: 6~7
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External	(LxWxH)	r/min kW m³/h mm	55/5 62/ HDU-42CF03/H(OUT) JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43-60 1008×4	2/47 (777 (777 (777 (7DOOR) (WHITE) (1L / DAIKIN (/DAPHNE SE56P (-1700 OLL (al protection) (a start) (a x 1
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	(LxWxH)	r/min kW m³/h mm °C mmxmmxmm	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-1 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43~60 1008×4 1130×4	2/47 /77 /TDOOR) (WHITE) /1L / DAIKIN K/DAPHNE SE56P -1700 OLL al protection
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package		r/min kW m³/h mm	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43~60 1008×4 1130×4 Capilla	2/47 /77 TDOOR) (WHITE) 1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start L x 1 ±50 56 00 0.52x0.36 .65 / heating: 6~7 10×830 90×930 ry tube
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package		r/min kW m³/h mm °C mmxmmxmm mm/mm	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43~60 1008×4 1130×4 Capilla Autor	2/47 /77 TDOOR) (WHITE) 1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start I x 1 ±50 56 00 0.52x0.36 .65 / heating: 6~7 10×830 90×930 ry tube matic
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type x Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package		r/min kW m³/h mm °C mmxmmxmm mmxmmm mm/mm	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43~60 1008×4 1130×4 Capilla Autor	2/47 /77 TDOOR) (WHITE) /1L / DAIKIN K/DAPHNE SE56P -1700 OLL al protection : start I × 1 ±50 56 00 0.52x0.36 .65 / heating: 6~7 10x830 90x930 ry tube matic 4
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level Weight (N	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package Ol method		r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-I 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43~60 1008×4 1130×4 Capilla Autor 6 92/	2/47 //77 //TDOOR) (WHITE) //L / DAIKIN //DAPHNE SE56P -1700 OLL al protection start I x 1 ±50 56 00 1.52x0.36 .65 / heating: 6~7 10x830 90x930 ry tube matic 4 100
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package ol method let / Shipping) Type / Charge		r/min kW m³/h mm °C mmxmmxmm mmxmm mm/mm dB(A) kg / kg g	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-1 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43~60 1008×4 1130×4 Capilla Autor 6 92/-	2/47 //77 //TDOOR) (WHITE) //L / DAIKIN //DAPHNE SE56P -1700 OLL al protection start I × 1 ±50 56 00 .52x0.36 .65 / heating: 6~7 10x830 90x930 ry tube matic 4 100 3150
	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level Weight (N Refrigerant	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package of method let / Shipping) Type / Charge Liquid		r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-I 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43~60 1008×4 1130×4 Capilla Autor 6 92/7 R22/2	2/47 (777 (777 (777 (777 (777 (777 (777 (
	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level Weight (N	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package of method let / Shipping) Type / Charge Liquid Gas		r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm mm	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-I 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43~60 1008×4 1130×4 Capilla Autor 6 92// R22/2	2/47 (777 (777 (777 (777 (777 (777 (777 (
	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level Weight (N Refrigerant	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package oil method Met / Shipping) Type / Charge Liquid Gas Drain hose		r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43~60 1008×4 1130×4 Capilla Autor 6 92/- R22/5	2/47 (777 (777 (777 (777 (777 (777 (777 (
PIPING Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level Weight (N Refrigerant	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package oil method Jet / Shipping) Type / Charge Liquid Gas Drain hose		r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm mm mm	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-I 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43-60 1008×4 1130×4 Capilla Autor 6 92/- R22/5 9.5	2/47 (777 (777 (777 (777 (777 (777 (777 (
	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level Weight (N Refrigerant	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package Oil method Met / Shipping) Type / Charge Liquid Gas Drain hose Od MAX Drop		r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm mm	55/5 62/ HDU-42CF03/H(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 740 0.1 60 TP2M / 9 2/1 cooling: 43~60 1008×4 1130×4 Capilla Autor 6 92/- R22/5	2/47 /77 /77 /77 /77 /77 /70 /71 /77 /70 /71 /77 /70 /71 /70 /71 /70 /70 /70 /70 /70 /70 /70 /70 /70 /70



item			Mod	lel	HDU-42	:HF03/H
Funct	ion				cooling	heating
Capa	-			BTU/h	42600	47700
Capa				kW	12.5	14
	ble heat ratio				75%	/
	power input			W	4900	4900
	power input			W	6100	5800
	or COP			W/W	2.55	2.86
	midifying capacity			10 - ³ ×m ³ /h		.0
	r cable			section		5mm2
	l cable			section		
	ecting cable			section	6×0.7	5mm2
	control cable	for wired control unit		section	/	4x0.33mm ² shield wire
	r source			N, V, Hz	3, 380-	400, 50
Runni	ing /Max.Running	current		A/A		heating8.2/10.5
	Current			A		0
	of anti electric sho	ock				
	t breaker		<u> </u>	Α	/	30
	operating pressure	e of heat side		Mpa	2	.8
	operating pressure			Мра		.8
	Unit model (color)			pu	HDU-42HF03/H(IN	-
	2	Type × Number	<u> </u>		-	ıgal × 2
		Speed(H-M-L)		r/min	1070±30/860	_
		Fan motor output power		kW		27
	Fan	Air-flow(H-M-L)		m³/h		-2580
4		Standard static pressure		Pa		00
ın		Max.static pressure		Pa	1(00
Indoor unit		Type / Diameter		mm	/	
luq	Heat exchanger	Temp. scope		°C	cooling: 43~6	0 heating:6~7
		External	(LxWxH)	mm×mm×mm		30×350
	Dimension Package		(LxWxH)	mm×mm×mm		40×420
	Control type (R	Remote /wired /model)		11111211111211111		RED
		-M-L)	1	dB(A)		2/47
	,	et / Shipping)		kg / kg	62	
	Unit model (color)			ng/ ng	HDU-42HF03/H(OU	
		Model / Manufacture			,	BF SANYO
		Oil model				/SAY56T
		Oil charging				00
	Compressor	Туре				ROLL
		Protection type				al protection
		Starting method				t start
		Type × Number			Axia	l x 2
Outdoor unit	_	Speed		r/min		±50
00 Z	Fan	Fan motor output power		kW)16
utd		Air-flow(H-M-L)		m³/h	60	00
0		Type / Diameter		mm	TP2M / 9	9.52x0.36
	Heat exchanger	Temp. scope		$^{\circ}$	cooling: 43~60) / heating: 6~7
	Dimension	External	(LxWxH)	mm×mm×mm		0*1250
	Dimension	Package	(LxWxH)	mm×mm×mm	1050*4	40*1375
	Refrigerant contro	¥		mm/mm	Capilla	ry tube
	Defrosting				Auto	matic
	Noise level			dB(A)	6	4
	Weight (N	let / Shipping)		kg / kg	91/	111
	Refrigerant	Type / Charge		g	R22/	4200
		Liquid		mm	9.	52
<u>ত</u>	Pipe	Gas		mm	19	.05
PIPING		Drain hose		mm	PVC	26/32
<u> </u>	Connecting Metho	od			Fla	red
	Between I.D &O.I	MAX.Drop		m	3	0
	Detween I.D &O.L	MAX.Piping length		m	5	0



item			Mod	lel	HDU-420	CH03/H
Funct	ion				cooling	heating
Capa				BTU/h	42650	/
Capa	•			kW	12.5	
•	power input			W	4700	
	power input			W	5700	
	or COP			W/W	2.66	
	midifying capacity			10 - ³ ×m ³ /h	5.0	
	r cable			section	5G 2.5i	
	I cable			section	5G 2.5i	IIIIIIZ
	ecting cable			section	4G 1.	5mm2
	control cable	for wired control unit		section	4 × 0 3	3 mm2
	r source	ioi wirea control anii		N, V, Hz	3N, 380-40	
	ing /Max.Running	current		A / A	Cooling 8.	
	Current			A	50	
	of anti electric sho	nok		A	CLASS I	CLASS I
	t breaker			Α	30	
	operating pressure	of heat side	1	Mpa	2.8	/
	operating pressure		-		2.8	//
iviax.	Unit model (color)		1	Мра	HDU-42CH03	/ !/H(WHITE)
	omi model (color)	Type × Number	1		centrif	
		Speed(H-M-L)		r/min	1070/950/	
		Fan motor output power		kW	0.2	
	Fan	Air-flow(H-M-L)		m³/h	1560~	
٦it				Pa	50	
Indoor unit		Standard static pressure		Pa	100	
doc	l la at accab a a acc	Max.static pressure				
<u>u</u>	Heat exchanger	Type / Diameter External	/1 - AM- 11 \	mm mm×mm×mm	inner groo	
	Dimension		(LxWxH)		1430×94	
			(LxWxH)	mm×mm×mm	wire	
	,, ,	emote /wired /model) I-M-L)		dB(A)	55/52	
	,	et / Shipping)		` ,	70/8	
	Unit model (color)			kg / kg	HDU-42CH03	
	Offic frioder (color)	Model / Manufacture			JT160BCBY	
		Oil model			SONTEX	•
		Oil charging			165	
	Compressor				SCRO	
		Type			Inner therma	
		Protection type Starting method			direct	•
Ħ		Type × Number			Axia	
Outdoor unit		Speed		r/min	740/5	
ook	Fan	Fan motor output power		kW	0.1	
Jutc		Air-flow(H-M-L)		m³/h	600	
_	Heat exchanger	Type / Diameter		mm	inner groov	
		External	(LxWxH)	mm×mm×mm	1008×83	•
	Dimension	Package	(LxWxH)	mm×mm×mm	1130×93	
	Refrigerant contro		LAVVAI1)	mm/mm	Capillary	
	Defrosting	A MOUTOU	<u> </u>	//////////////////////////////////	Autom	
	Noise level			dB(A)	64	
		l let / Shipping)	I	kg / kg	90/1	
		Type / Charge		g	R22/3	
	Refrigerant	Recharge quantity		g/m	65	
		Liquid		mm	φ9.5	
S S	Pipe	Gas		mm	φ19.	
PIPING	F-	Drain hose		mm	PVC 2	
Δ.	Connecting Metho				Flare	
	_	MAX.Drop		m	30	
	Between I.D &O.[MAX.Piping length		m	50	
		1				



item			Mod	lel	HDU-42	CI03/H
Functi	ion		1000		cooling	heating
Capac				BTU/h	42650	/
Capac	•			kW	12.5	
	power input			W	4800	
	· · · · · · · · · · · · · · · · · · ·			W	5800	
	power input				2.6	
	or COP			W/W		7
	midifying capacity			10 - ³ ×m ³ /h		
	r cable			section	5G 2.5	5mm2
	l cable			section	4G 1	.5mm2
	ecting cable			section		
	control cable	for wired control unit		section		33 mm2
	r source			N, V, Hz	3N, 380-40	
Runni	ing /Max.Running	current		A/A	Cooling 8.	
	Current			Α	50	0
	of anti electric sho	ock			CLASS I	
	t breaker			Α	30	0
	operating pressure			Мра	2.8	/
Max.	operating pressure	e of cold side		Мра	2.8	
	Unit model (color)				HDU-42CI03	, ,
		Type x Number			centri	
		Speed(H-M-L)		r/min	1070/86	60/690
	F	Fan motor output power		kW	0.2	27
	Fan	Air-flow(H-M-L)		m³/h	1560~	-2580
nit		Standard static pressure		Pa	10	0
or u		Max.static pressure		Pa	10	0
Indoor unit	Heat exchanger	Type / Diameter		mm	inner gro	oved/φ7
_		External	(LxWxH)	mm×mm×mm	1197×8	-
	Dimension	Package	(LxWxH)		1430×9	40×420
	Control type (Remote /wired /model)				wir	ed
		-M-L)	ı	dB(A)	56/52	2/48
	Weight (N	et / Shipping)		kg/kg	72/	87
	Unit model (color)			3.3	HDU-42CI03	3/H(WHITE)
	(*****)	Model / Manufacture			JT160BCBY	, ,
		Oil model			SONTEX	
		Oil charging			169	56
	Compressor	Туре			SCR	
		Protection type			Inner therma	
		Starting method			direct	•
Ħ		Type × Number			Axia	
Outdoor unit		Speed		r/min	840/	
oop	Fan	Fan motor output power		kW	0.0	
Outc		Air-flow(H-M-L)		m³/h	600	
_	Heat exchanger	Type / Diameter		mm	inner groo	
	ricat exchanger	External	(LxWxH)		948*34	-
	Dimension	Package			1050*44	
	Defrigerent centre	-	(LxWxH)		Capillar	
	Refrigerant control Defrosting	n method	l	mm/mm	Autor	-
	Noise level			d₽(∧)	Autor 64	
		let / Shipping)		dB(A)	104/	
	vveignt (l		1	kg / kg	R22/4	
	Refrigerant	Type / Charge		g g/m	69	
		Recharge quantity		g/m	φ9.	
ര	D:	Liquid		mm		
PIPING	Pipe	Gas		mm	φ19 PVC 2	
₫	0	Drain hose		mm		
	Connecting Metho				Flai	
1	Between I.D &O.[MAX.Drop		m	30	
	Detween I.D &O.L	MAX.Piping length		m	50	1



item			Mod	lel	HDU-42	:HK03/H
Funct	ion				cooling	heating
Capa				BTU/h	42650	47750
Capa				kW	12.5	14.0
	power input			W	4900	4900
	power input			W	6100	5800
	or COP			W/W	2.55	2.86
						.0
	midifying capacity r cable			10 - 3×m³/h		
				section	5G 2.	5mm2
	l cable			section	4G 1	.5mm2
	ecting cable			section		
	control cable	for wired control unit		section		33 mm2
	r source			N, V, Hz		00V,50HZ
	ing /Max.Running	current		A/A		A Heating 8.2/10.5
	Current			Α		0
	of anti electric sho	ock			CLASS I	CLASS I
	t breaker			Α		0
	operating pressure			Мра	2.8	2.8
Max.	operating pressure			Мра	2.8	2.8
	Unit model (color)				HDU-42HK0	,
		Type x Number			centr	•
		Speed(H-M-L)		r/min		60/690
	Fan	Fan motor output power		kW		27
	I all	Air-flow(H-M-L)		m³/h	1560~	~2580
Indoor unit		Standard static pressure		Pa	10	00
oc		Max.static pressure		Pa	10	00
ppu	Heat exchanger	Type / Diameter		mm	inner gro	ooved/φ7
_	D'	External	(LxWxH)	mm×mm×mm	1197×8	30×350
	Dimension	Package	(LxWxH)	mm×mm×mm	1430×9	40×420
	! 5			 		
	Control type (R	emote /wired /model)			wir	red
		lemote /wired /model)		dB(A)		red 2/48
	Noise level (H	I-M-L)		dB(A)		2/48
	Noise level (H Weight (N	I-M-L) et / Shipping)		dB(A) kg/kg	56/5	/2/48 /87
	Noise level (H	I-M-L) et / Shipping)			56/5 73/	2/48 /87 3/H(WHITE)
	Noise level (H Weight (N	l-M-L) et / Shipping)			56/5 73, HDU-42HK0	2/48 /87 3/H(WHITE) 8F/SANYO
	Noise level (H Weight (N Unit model (color)	l-M-L) et / Shipping) Model / Manufacture Oil model			56/5 73, HDU-42HK0 C-SB373H SONTE)	2/48 /87 3/H(WHITE) 8F/SANYO
	Noise level (H Weight (N	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging			56/5 73, HDU-42HK0 C-SB373H SONTE)	2/48 /87 /3/H(WHITE) 8F/SANYO X 200 LT
	Noise level (H Weight (N Unit model (color)	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type			56/5 73. HDU-42HK0 C-SB373H SONTE 16	2/48 /87 /3/H(WHITE) 8F/SANYO X 200 LT
	Noise level (H Weight (N Unit model (color)	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type			56/5 73, HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm	2/48 //87 3/H(WHITE) 8F/SANYO X 200 LT 56 COLL
	Noise level (H Weight (N Unit model (color)	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method			56/5 73, HDU-42HK0 C-SB373H SONTE: 16 SCR Inner therm.	2/48 /87 3/H(WHITE) 8F/SANYO X 200 LT 56 COLL al protection t start
unit	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number		kg / kg	56/5 73, HDU-42HK0 C-SB373H SONTEX 16 SCR Inner thermal direct Axis	2/48 /87 3/H(WHITE) 8F/SANYO X 200 LT 56 COLL al protection t start
or unit	Noise level (H Weight (N Unit model (color)	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed		kg / kg	56/5 73/ HDU-42HK0 C-SB373H SONTEX 16 SCR Inner thermal direct Axia	2/48 /87 3/H(WHITE) 8F/SANYO X 200 LT 56 COLL al protection t start al*2 /540
rtdoor unit	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power		kg / kg	56/5 73, HDU-42HK0 C-SB373H SONTEX 16 SCR Inner therm direct Axia 840,	2/48 /87 /3/H(WHITE) 8F/SANYO X 200 LT .56 OLL al protection t start al*2 /540
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L)		kg / kg r/min kW m³/h	56/5 73, HDU-42HK0 C-SB373H SONTEX 16 SCR Inner therm: direct Axia: 840, 0.66	2/48 /87 3/H(WHITE) 8F/SANYO X 200 LT :56 :OLL al protection t start al*2 /540 06 00
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter	(1 * M > H)	r/min kW m³/h mm	56/5 73, HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm direct Axia 840, 0,0	2/48 /87 /3/H(WHITE) 8F/SANYO X 200 LT .56 COLL al protection t start al*2 /540 06 00 vved/φ9.52
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External	(LxWxH)	r/min kW m³/h mm	56/5 73, HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm direct Axia 840, 0. 60 inner groo	2/48 /87 /3/H(WHITE) 8F/SANYO X 200 LT 56 COLL al protection t start al*2 /540 06 00 vved/φ9.52 0/1250
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package	(LxWxH)	r/min kW m³/h mm mm×mm×mm	56/5 73, HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm direct Axia 840, 0.0 60 inner groot 948/34 1050/44	2/48 /87 /87 /3/H(WHITE) 8F/SANYO X 200 LT 56 COLL al protection t start al*2 /540 06 00 vved/φ9.52 0/1250 40/1375
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package	1	r/min kW m³/h mm	56/5 73/ HDU-42HK0 C-SB373H SONTEX 16 SCR Inner therm direct Axia 840/ 0. 60 inner groo 948/34 1050/44 Capilla	2/48 /87 3/H(WHITE) 8F/SANYO X 200 LT :56 COLL al protection t start al*2 /540 06 00 wed/φ9.52 0/1250 40/1375 ry tube
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting	-M-L) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package	1	r/min kW m³/h mm mm×mm×mm mm/mm	56/5 73, HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm direct Axia 840, 0.0 60 inner groo 948/34 1050/44 Capilla Autol	2/48 /87 3/H(WHITE) 8F/SANYO X 200 LT :56 COLL al protection t start al*2 /540 06 :00 :ved/\(\phi\).52 :0/1250 40/1375 ry tube matic
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package oil method	1	r/min kW m³/h mm mm×mm×mm mm/mm	56/5 73/ HDU-42HK0 C-SB373H SONTEX 16 SCR Inner therm direct Axia 840/ 0.0 60 inner groo 948/34 1050/44 Capilla Autor 6	2/48 //87 3/H(WHITE) 8F/SANYO X 200 LT .56 COLL al protection t start al*2 //540 .06 .00 .ved/\(\phi\).52 .0/1250 40/1375 ry tube matic
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level crankcase heater	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package oil method	1	r/min kW m³/h mm mm×mm×mm mm/mm dB(A) W	56/5 73/ HDU-42HK0 C-SB373H SONTEX 16 SCR Inner therm direct Axia 840 0.0 60 inner groot 948/34 1050/44 Capilla Autor 6	2/48 //87 3/H(WHITE) 8F/SANYO X 200 LT .56 COLL al protection t start al*2 //540 .06 .00 .ved/φ9.52 .0/1250 .40/1375 ry tube matic .4 .0
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level crankcase heater	I-M-L) et / Shipping) et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package oil method	1	r/min kW m³/h mm mmxmmxmm mm/mm dB(A) W kg / kg	56/5 73, HDU-42HK0 C-SB373H SONTEX 16 SCR Inner therm: direct Axia: 840, 0, 60 inner groot 948/34 1050/4 Capilla Autor 6 4	2/48 /87 3/H(WHITE) 8F/SANYO X 200 LT .56 COLL al protection t start al*2 /540 .06 .00 .ved/\(\phi\).52 .0/1250 .40/1375 ry tube matic .4 .0 /113
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level crankcase heater	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package ol method power Net / Shipping) Type / Charge	1	r/min kW m³/h mm mmxmmxmm mm/mm dB(A) W kg / kg g	56/5 73/ HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm direct Axia 840/ 0.0 60 inner groo 948/34 1050/44 Capilla Autor 6 4 105/ R22/	2/48 /87 /3/H(WHITE) 8F/SANYO X 200 LT .56 COLL al protection t start al*2 //540 06 00 .ved/\psi.52 .0/1250 40/1375 ry tube matic .4 0 /113 4200
Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level crankcase heater Weight (N	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package ol method power let / Shipping) Type / Charge Recharge quantity	1	r/min kW m³/h mm mmxmmxmm mm/mm dB(A) W kg / kg g g/m	56/5 73, HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm direct Axia 840, 0. 60 inner groo 948/34 1050/44 Capilla Autor 6 4 105, R22/	2/48 /87 /3/H(WHITE) 8F/SANYO X 200 LT /56 COLL al protection t start al*2 //540 06 00 vved/\phi9.52 0/1250 40/1375 ry tube matic /4 0 //113 4200 5
	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level crankcase heater Weight (N Refrigerant	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package ol method power Net / Shipping) Type / Charge Recharge quantity Liquid	1	r/min kW m³/h mm mmxmmxmm mmxmmxmm dB(A) W kg / kg g g/m mm	56/5 73, HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm direct Axia 840, 0. 60 inner groo 948/34 1050/44 Capilla Autor 6 4 105, R22/ 6	2/48 /87 /3/H(WHITE) 8F/SANYO X 200 LT /56 COLL al protection t start al*2 //540 /06 /00 /ved/φ9.52 /0/1250 /40/1375 ry tube matic /4 /4 /0 //13 //13 //13 //13
	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level crankcase heater Weight (N	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package oil method power let / Shipping) Type / Charge Recharge quantity Liquid Gas	1	r/min kW m³/h mm mm×mm×mm mm/mm dB(A) W kg / kg g g/m mm mm	56/5 73, HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm direct Axia 840, 0. 60 inner groo 948/34 1050/4 Capilla Autor 6 4 105, R22/ 6 φ9	2/48 /87 /87 /3/H(WHITE) 8F/SANYO X 200 LT /56 COLL al protection t start al*2 /540 /06 /00 /ved/\phi9.52 /0/1250 40/1375 ry tube matic /4 /0 //113 /4200 /5 /52 /9.05
PIPING Outdoor unit	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level crankcase heater Weight (N Refrigerant	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package oil method power Net / Shipping) Type / Charge Recharge quantity Liquid Gas Drain hose	1	r/min kW m³/h mm mmxmmxmm mmxmmxmm dB(A) W kg / kg g g/m mm	56/5 73, HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm direct Axia 840, 0. 60 inner groo 948/34 1050/44 Capilla Autor 6 4 105, R22/ 6 99 \$\phi\$15	2/48 /87 /87 /3/H(WHITE) 8F/SANYO X 200 LT /56 COLL al protection t start al*2 //540 /06 /00 /00 /00 /00 /00 /00 /00 /00 /0
	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level crankcase heater Weight (N Refrigerant	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package Oil method power Net / Shipping) Type / Charge Recharge quantity Liquid Gas Drain hose	1	r/min kW m³/h mm mmxmmxmm mm/mm dB(A) W kg / kg g g/m mm mm mm	56/5 73, HDU-42HK0 C-SB373H SONTEX 16 SCR Inner therm direct Axia 840, 0, 60 inner groo 948/34 1050/44 Capilla Autor 6 4 105, R22/ 6 99 915 PVC	2/48 /87 3/H(WHITE) 8F/SANYO X 200 LT .56 COLL al protection t start al*2 /540 .06 .00 .ved/\phi.52 .0/1250 .40/1375 ry tube matic .4 .0 /113 .4200 .5 .05 .05 .05 .05 .05 .05 .0
	Noise level (H Weight (N Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant contro Defrosting Noise level crankcase heater Weight (N Refrigerant	et / Shipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output power Air-flow(H-M-L) Type / Diameter External Package oil method power Jet / Shipping) Type / Charge Recharge quantity Liquid Gas Drain hose	1	r/min kW m³/h mm mm×mm×mm mm/mm dB(A) W kg / kg g g/m mm mm	56/5 73, HDU-42HK0 C-SB373H SONTE) 16 SCR Inner therm direct Axia 840, 0, 60 inner groo 948/34 1050/44 Capilla Autor 6 4 105, R22/ 6 99 915 PVC	2/48 /87 /87 /3/H(WHITE) 8F/SANYO X 200 LT /56 COLL al protection t start al*2 //540 /06 /00 /00 /00 /00 /00 /00 /00 /00 /0



item			Mod	lel I	HDU-50	DHT03/H
Funct	ion		1,1,50		cooling	heating
Capa				BTU/h	49800	56300
Capa	· · · · · · · · · · · · · · · · · · ·			kW	14.6	16.5
	ble heat ratio			IXVV	0.7	
	power input			W	6540	5830
	power input			W	7767	6160
	or COP			W/W	2.2	2.8
	midifying capacity			10 - ³ ×m ³ /h		.0
	r cable			section		5mm2
	I cable			section	30,2.	JIIIIIZ
	ecting cable			section	4G×	1.5mm2
	control cable	for wired control unit		section	4 v 0	33 mm2
	r source	ior whod dontror drift		N, V, Hz		00V,50HZ
	ng /Max.Running	current		A/A		Heating 9.1/10.35
	Current	darione		A		0
	of anti electric sho	l			CLASS I	CLASS I
	t breaker	Jok		Α		0
	operating pressure	L of heat side		Mpa	2.8	2.8
	operating pressure			Мра	2.8	2.8
iviax.	Unit model (color)		1	ινιμα	HDU-50HT0	
	omi model (color)	Type × Number	1		centrifu	, ,
		Speed(H-M-L)		r/min		80/720
		Fan motor output power		kW		27
	Fan	Air-flow(H-M-L)		m³/h		~2580
٦į۲		` '		Pa		0
Indoor unit		Standard static pressure				00
qoo	Hart week a comm	Max.static pressure		Pa		
<u>u</u>	Heat exchanger	Type / Diameter	(1 - AM- 11 X	mm	inner gro	-
	Dimension	External	(LxWxH)		1197×830×350 1430×940×420	
	1 2 2 2 2		(LXVVXH)	mm×mm×mm		red
		emote /wired /model) I-M-L)		-ID(A)		2/47
	,	/		dB(A)		/80
	Weight (N Unit model (color)	et / Shipping)		kg / kg	HDU-50HT0	
	Offit frioder (color)	Model / Manufacture				522/COPELAND
		Oil model				X 200 LT
		Oil charging				56
	Compressor					OLL
		Type Protection type				al protection
		Starting method				t start
		Type × Number				al*2
ınit		Speed		r/min		40
Outdoor unit	Fan	Fan motor output power	1	kW		06
ıtdo		Air-flow(H-M-L)		m³/h		00
Õ	Heat exchanger	Type / Diameter		mm		ved/φ9.52
		External	(LxWxH)	mm×mm×mm)	·0*1250
	Dimension	Package	(LxWxH)	mm×mm×mm		40*1375
	Refrigerant contro		(LAVVAII)	mm/mm		ry tube
	Defrosting	л пошоц		11111/111111		matic
	Noise level			dB(A)		4
	crankcase heater	power		W W		0
		Net / Shipping)	I .	kg / kg		111
	-	Type / Charge		g		4300
	Refrigerant	Recharge quantity		g/m		5
		Liquid		mm		.52
ρŠ	Pipe	Gas		mm		9.05
PIPING		Drain hose		mm		26/32
۵	Connecting Metho		 	111111		red
		MAX Drop	-	m		0
	Between I.D &O.I	MAX.Piping length		m		0
i l						-



item Mod		lel	AD96N	AHAEA		
Func	Function				cooling	heating
Capacity			BTU/h	92000	96000	
Сара	city			kW	27000	28000
Sens	ible heat ratio				75%	/
Total	power input			W	10000	9000
Max.	power input			W	13000	13000
EER	or COP			W/W	2.70	3.11
Dehu	midifying capacity			10 - ³×m³/h	1	0
Powe	er source			N, V, Hz	1, 220-	
	Unit model (color)			AD96N	
		Type × Number			Centrif	·
		Speed(H-M-L)		r/min	1070/86	
	Fan	Fan motor output power		W	270	N*2
	ran	Air-flow(H-M-L)		m³/h	36	00
		Standard static pressure		Pa	10	00
		Max.static pressure		Pa	10	00
ij		Type / Diameter		mm	TP2M/	Φ9.52
n r	Heat exchanger	Total Area		m²	0.4	41
Indoor unit		Temp. scope		$^{\circ}$	2-	7
드	Dimension	External	(LxWxH)	mm×mm×mm	1570*8	40*360
	Dimension	Package	(LxWxH)	mm×mm×mm	1800*9	
	Drainage pipe (n	naterial , I.D./O.D.)		mm	PVC	26/32
	Control type (Remote /wired) Fresh air hole dimension				Wii	red
				mm	1	1
	Electricity Heater			kW	(<u> </u>
	Noise level (F	H-M-L)		dB(A)	58/-	
	Weight (N	let / Shipping)		kg / kg	92/	100

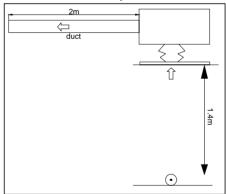
Norminal condition: indoor temperature (cooling): 27℃DB/19℃WB, indoor temperature (heating): 20℃DB

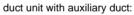
Outdoor temperature(cooling): 35 °C DB/24 °C WB, outdoor temperature(heating): 7 °C DB/6 °C WB

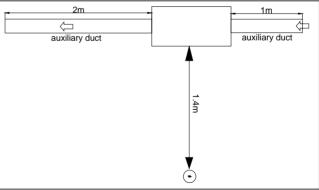
The noise level will be measured in the third octave band limited values, using a Real Time Analyser calibrated sound intensity meter. It is a sound pressure noise level. The detailed method please refer to the following information:

Installation state: the unit should be placed on the flat floor or be mounted in horizontal direction. Testing method:

duct unit without auxiliary duct:







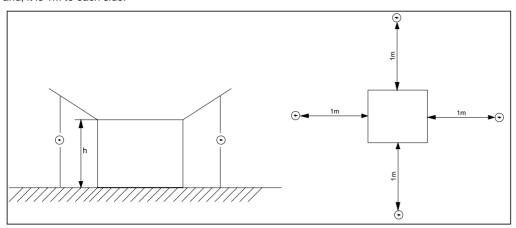


outdoor unit:

1.air outlet from side: the noise level is the average sound pressure level measured from front, left, right directions.

2.air outlet from top: the noise level is the average sound pressure level measured from front, back, left, right directions. measured point:

H (height to the ground) = (h (unit height) + 1m) /2 and, it is 1m to each side.

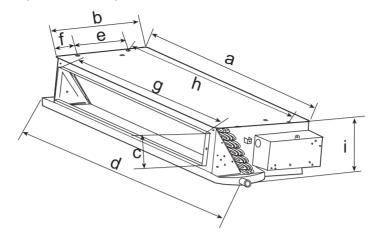


Note: ⊙ is the real time analyser position



3. Dimension

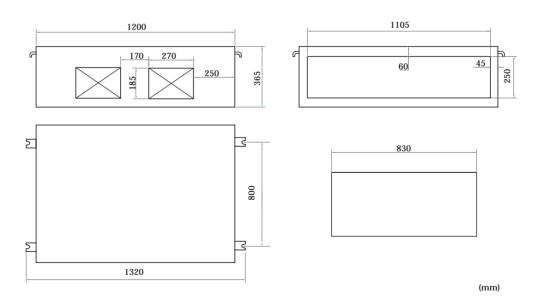
HDU-18CF03, HDU-18HF03, HDU-28CF03, HDU-28HF03



(Unit: mm)

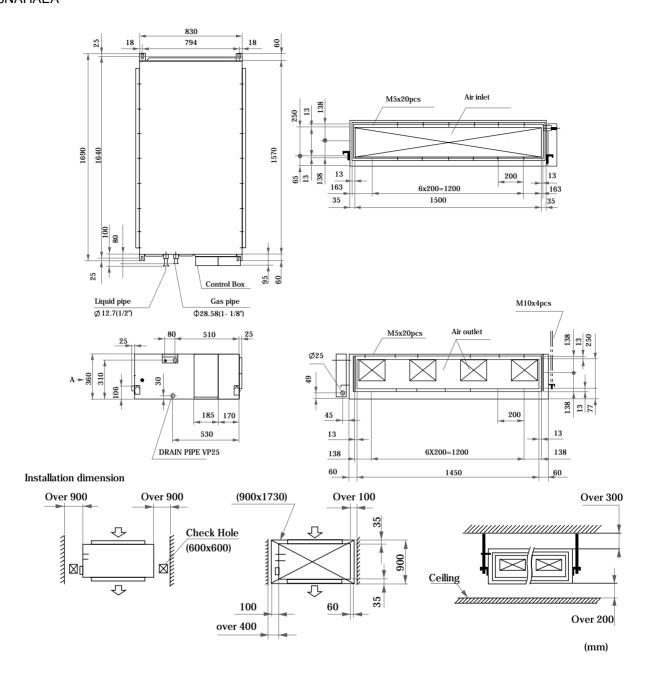
Unit model	а	b	С	d	е	f	g	h	i
HDU-18CF03 HDU-18HF03 HDU-28CF03 HDU-28HF03	1002	483.5	131	1105	255	105	880	970	220

HDU-42CF03/H, HDU-42HF03/H, HDU-42CH03/H, HDU-42CI03, HDU-42HK03/H, HDU-42HT03/H





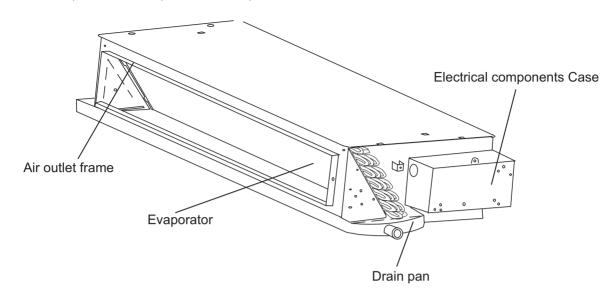
AD96NAHAEA



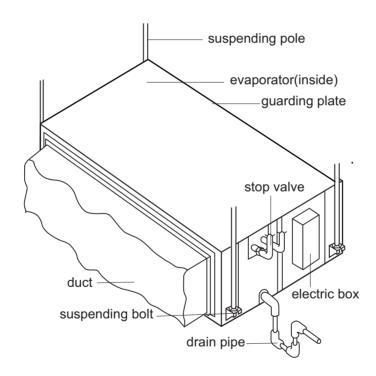


4. Part name

HDU-18CF03, HDU-18HF03, HDU-28CF03, HDU-28HF03



HDU-42CF03/H, HDU-42HF03/H, HDU-42CH03/H, HDU-42CI03, HDU-42HK03/H, HDU-42HT03/H AD96NAHAEA





5. Installation

5.1 For Ceiling concealed duct type (series 18, 28)

Installation space

The indoor unit shall be installed at locations where cold and hot air could evenly circulated.

The following locations should be avoided:

Places with rich salt (seaside area).

Places with plenty of gas sulfides (mainly in warm spring areas where the copper tube and braze weld is easy to corrosion).

Locations with much oil (including mechanical oil) and steam.

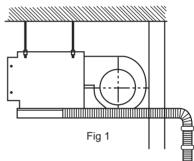
Locations using organic solvents.

Places where there are machines generating HF electromagnetic waves.

Positions adjacent to door or window in contact with high-humidity external air. (Easy to generate dew). Locations frequently using special aerosols.

The following points should be taken care of:

- Select suitable places the outlet air can be sent to the entire room, and convenient to lay out the connection pipe, connection wire and the drainage pipe to outdoor.
- 2. The ceiling structure must be strong enough to support the unit weight.
- 3. The connecting pipe, drain pipe and connection wire shall be able to go though the building wall to connect between the indoor and outdoor units.



- 4. The connecting pipe between the indoor and outdoor units as well as the drain pipe shall be as short as possible. (See Figure 1)
- 5. If its necessary to adjust the filling amount of the refrigerant, please refer to the installation manual attached with the outdoor unit.
- 6. The connecting flange should be provided by the user himself.
- 7. The indoor unit has two water outlets one of which is obstructed at the factory (with a rubber cap). Only the outlet not obstructed (liquid inlet and outlet side) will be generally used during installation. If applicable, both the outlets should be used together.

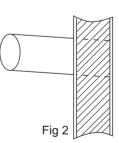
Note: The access hole must be provided during installation of indoor unit for maintenance.

After selecting the installation space, proceed the following steps:

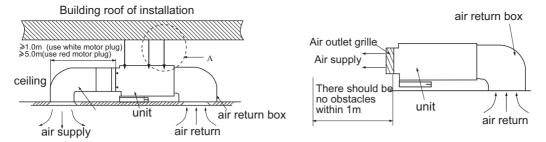
- 1. Drill a hole in the wall and insert the connecting pipe and wire through a PVC wall-through tube purchased locally. The wall hole shall be with a outward down slope of at least 1/100. (See Figure 2)
- 2. Before drilling check that there is no pipe or reinforcing bar just behind the drilling position. Drilling shall avoid at positions with electric wire or pipe.
- 3. Mount the unit on a strong and horizontal building roof. If the base is not firm, it will cause noise, vibration or leakage.



- 5. Change the form of the connection pipe, connection wire and drain pipe so that they can go through the wall hole easily.
- Each of the air sending duct and air return duct shall be fixed on the prefabricated panel of the floor by the iron bracket.
- The recommended distance between the edge of the air return duct and the wall is over 150mm.
- The gradient of the condensate water pipe shall keep over 1%.
- The condensate water pipe shall be thermal insulated.
- When installing the ceiling Concealed type indoor unit, the air return duct must be designed and installed (as figure shown).

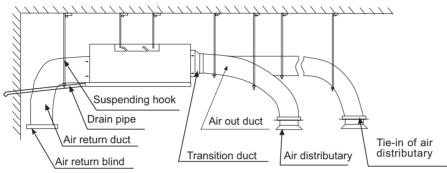






Note: When connecting the short ducts, use the low static terminals, which color is white.

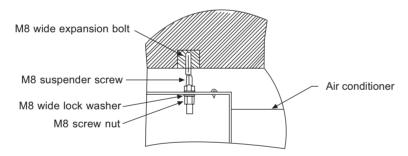
The distance L from the air outlet of the duct to the air outlet of the sir conditioner shall be no more than 1 m.



The sketch map of long duct

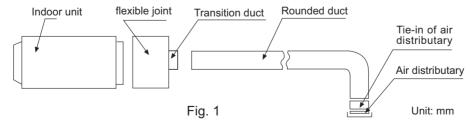
Note: When connecting the long ducts, use the middle static terminals, which color is red.

The distance L from the air outlet of the duct to the air outlet of the sir conditioner shal be no more than 5 m.



Installation of indoor unit duct

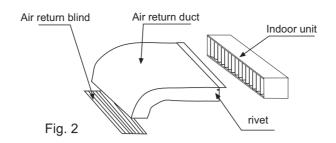
- 1. Installation of air sending duct
- This unit uses rounded duct, the diameter of the duct is 180mm.
- The round duct needs to add a transition duct to connect with the air-sending duct of indoor unit, then connect with respective separator. As Fig. 1 shown, all the fan speed of any of the separator's air outlet shall be adjusted approximately the same to meet the requirement for the room air conditioner.



2. Installation of air return duct

 Use rivet to connect the air return duct on the air return inlet of the indoor unit, then connect the other end with the air return blind. As Fig. 2 shown.





3 Thermal insulation of duct

• Air-sending duct and air return duct shall be thermally insulated. First stick the gluey nail on the duct, then attach the heat preservation cotton with a layer of tinfoil paper and use the gluey nail cap to fix. Finally use the tinfoil adhesive tape to seal the connected part. As Fig. 3 shown.

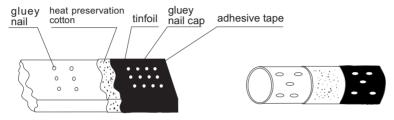


Fig. 3

Installing the suspension screw:

Use M8 or M10 suspension screws (4,prepared in the field)(when the suspension screwheight exceeds 0.9m, M10 size is the only choice). These screws shall be installed as follows with space adapting to air conditioner overall dimensions according to the original building structures.

Wooden structure

A square wood shall be supported by the beams and then set the suspension screws.

New concrete slab

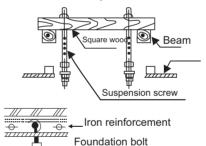
To set with embedded parts, foundation bolts etc.



Knife embedded part







Pipe suspension foundation bolt

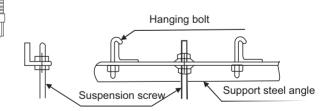
Original concrete slad

Use hole hinge, hole plunger or hole bolt.



Steel reinforcement structure

Use steel angle or new support steel angle directly.



Hanging of the indoor unit

Fasten the nut on the suspension screw and then hang the suspension screw in the T slot of the suspension part of the unit. Aided with a level meter, adjust level of the unit within 5mm.

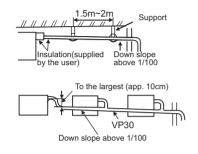
⚠ Caution

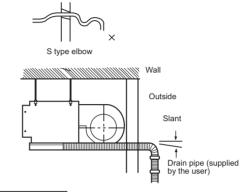
In order to drain water normally, the drain pipe shall be processed as specified in the installation manual and shall be heat insulated to avoid dew generation. Improper hose connection may cause indoor water leakage.



Requirements

- The indoor drain pipe shall be thermal insulated.
- The connection part between the drain pipe and the indoor unit shall be insulated so as to prevent dew generation.
- The drain pipe shall be slant downwards (greater than 1/100). The middle part shall not be of S type elbow, otherwise abnormal sound will be produced.
- The horizontal length of the drain pipe shall be less than 20 m. In case of long pipe, supports shall be provided every 1.5 2m to prevent wavy form.
- Central piping shall be laid out according to the following figure.
- Take care not to apply external force onto the drain pipe connection part.





Pipe and insulation material

Pipe	Rigid PVC pipe VP20 mm (internal diameter)
Insulation	Foamed PE with thickness above 7 mm

Hose

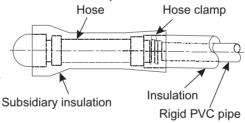
Drain pipe size: (3/4") PVC pipe

The hose is used for adjusting the off-center and angle of the rigid PVC pipe.

- Directly stretch the hose to install without making any deformation.
- The soft end of the hose must be fastened with a hose clamp.

• Please apply the hose on horizontal part Insulation treatment:

 Wrap the hose and its clamp until to the indoor unit without any clearance with insulating material, as shown in the figure.



Drain confirmation

During trial run, check that there is no leakage at the pipe connection part during water draining even in winter.

∕ Caution

- In installation, if there is refrigerant gas leakage, please take ventilation measures immediately. The refrigerant gas will generate poisonous gas upon contacting fire.
- After installation, please verify that there is no refrigerant leakage. The leaked refrigerant gas will produce poisonous gas when meeting fire source such as heater and furnace etc.

Allowable pipe length and drop

These parameters differ according to the outdoor unit. See the instruction manual attached with the outdoor unit for details.

Pipe material and size



Туре	Pipe material	Phosphorus of pipe (TP _{2M})	deoxidized copper seamless for air conditioner
HDU-18CF03	Pipe size	Gas side	Ø12.70
HDU-18HF03	(mm)	Liquid side	Ø6.35
HDU-28CF03	Pipe size	Gas side	Ø15.88
HDU-28HF03	(mm)	Liquid side	Ø9.52

Supplementary refrigerant

The refrigerant supplementation shall be as specified in the installation instructions attached with the outdoor unit.

The adding procedure shall be aided with a measuring meter for a specified amount of supplemented refrigerant.

Requirement

• Overfilling or underfilling of refrigerant will cause compressor fault. The amount of the added refrigerant shall be as specified in the instructions.

Connection of refrigerant pipe

Conduct flared connection work to connect all refrigerant pipes.

- The connection of indoor unit pipes must use double spanners.
- The installing torque shall be as given in the following table.
- Wall thicknessof connection pipe ≥ 0.8mm

Connecting pipe O.D.(mm)	Installing torque(N-m)
Ø6.35	11.8 (1.2kgf-m)
Ø9.52	24.5 (2.5 kgf-m)
Ø12.70	49.0 (5.0 kgf-m)
Ø15.88	78.4 (8.0 kgf-m)



Double-spanner operation

Vacuum pumping

With a vacuum pump, create vacuum from the stop valve of the outdoor unit. Emptying with refrigerant sealed in the outdoor unit is absolutely forbidden.

Open all valves

Open all the valves on the outdoor unit.

Gas leakage detection

Check with a leakage detector or soap water that if there is gas leakage at the pipe connections and bonnets.

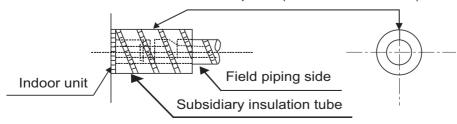
Insulation treatment

Conduct insulation treatment on both the gas side and liquid side of pipes respectively.

During cooling operation, both the liquid and gas sides are cold and thus shall be insulated so as to avoid dew generation.

- The insulating material at gas side shall be resistant to a temperature above 120 C
- The indoor unit pipe connection part shall be insulated.

The notch upward(Attached detail view)





Electric wiring

MWARNING -

DANGER OF BODILY INJURY OR DEATH

TURN OFF ELECTRIC POWER AT CIRCUIT BREAKER OR POWER SOURCE BEFORE MAKING ANY ELECTRIC CONNECTIONS. GROUND CONNECTIONS MUST BE COMPLETED BEFORE MAKING LINE VOLTAGE CONNECTIONS.

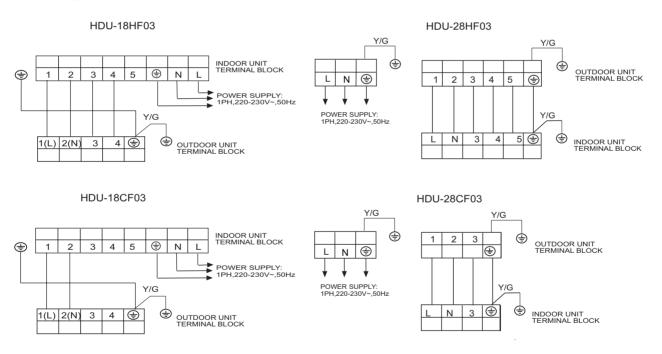
- (1) Selection of size of power supply and interconnecting wires.
 - Precautions for Electric wiring
 - Electric wiring work should be conducted only by authorized personnel.
 - Do not connect more than three wires to the terminal block. Always use round type crimped terminal lugs with insulated grip on the ends of the wires.
 - · Use copper conductor only.

Select wire sizes and circuit protection from table below. (This table shows 20 m length wires with less than 2% voltage

		Circuit	breaker	Power	Earth leaka	ige breaker
Item	Phase	Switch breaker (A)	Overcurrent protector	source wire size	Switch break	Leak curren
HDU-18CF03 HDU-18HF03	1	30	20	2.5mm²	30	30mA
HDU-28CF03 HDU-28HF03	1	40	36	4.0mm ²	40	30mA

(2) Wiring connection

Make wiring to supply power to the outdoor unit, so that the power for the indoor unit is supplied by terminals.





5.2 For High static pressure duct type (series 42, 50, 96)

1. Before installation [Before finishing installation, do not throw the attached parts installation needs]

- Confirm the way to move the unit to the installation place.
- Before moving the unit to the installation place, do not remove their packages.
 When have to remove the package, use a soft material or protection board with rope to lift the unit assembly to avoid unit damage or bumping a scrape.

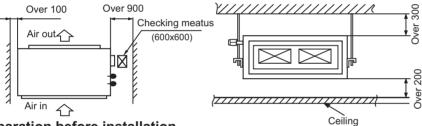
2. Choose installation place

(1) The chosen installation place should meet the following requirements and get the user □s consent.

- Place ensures ideal airflow distribution.
- The passage of airflow has no obstacles.
- When importing outside air, it should be imported directly from outdoors. (if the pipe can not be extended, it also can not be imported from top)
- Place ensures enough space for maintenance.
- The pipe length between indoor and outdoor unit is in the permitted limit (referring to outdoor unit installation part).
- The indoor unit, outdoor unit, electric wire and connection wire is at least 1m away from television and radio. This is to avoid the image disturbance and noise caused by the above-mentioned home appliance. (Even if 1m away, if the electromagnetic wave is too strong, it can also cause noise.)

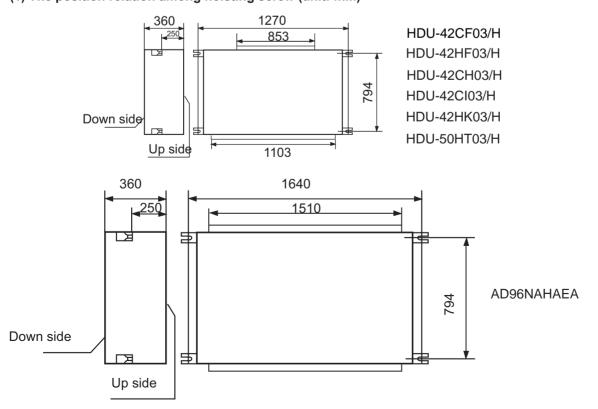
(2) The height of ceiling

- The indoor unit can install on the ceiling, which height is no more than 3m.
- (3) Install and use the hoisting screw. Check if the installation place can bear the weight of unit assembly.
- If not certain, strengthen it before install the unit.



3. Preparation before installation

(1) The position relation among hoisting screw (unit: mm)





(2) If necessary, cut the opening installation and checking needed on the ceiling. (If has ceiling)

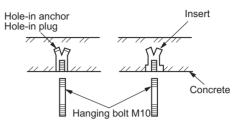
- Before installation, finish the preparation work of all the pipes (refrigerant, drainage) and wire (wire controller connection wire, indoor and outdoor unit connection wire) of indoor unit, so that after installation, they can be immediately connected with outdoor unit.
- Cut the opening on the ceiling. Maybe it needs to strengthen the ceiling to keep the ceiling even and flat and prevent the ceiling from vibration. For details, please consult to the builder.

(3) Hanger bolts installation

Use care of the piping direction when the unit is installed.
 (Use M10 screw bolt)

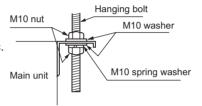
In order to bear the weight of the unit, for existed ceiling, using foundation screw bolt, for new ceiling, using burying embedded screw bolt, burying screw bolt or spot supplied other parts.

Before going on installation, adjust the gaps with ceiling.



4. Installation of indoor unit

Fix the indoor unit to the hanger bolts.
 If required, it is possible to suspend the unit to the beam, etc.
 Directly by use of the bolts without using the hanger bolts.

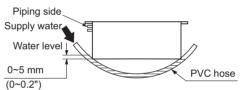


Note

When the dimensions of main unit and ceiling holes does not match, it can be adjusted with the slot holes of hanging bracket.

Adjusting to the levelness

- (a) Adjust the out-of levelness using a level or by the following method.
- Make adjustment so that the relation between the lower surface of the unit proper and water level in the hose becomes as given below.

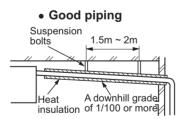


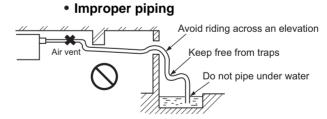
Bring the piping side slightly lower.

(b) Unless the adjustment to the levelness is made properly, malfunctioning or failure of the float switch may occur.

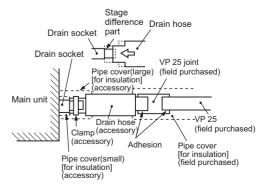
5. Drain Piping

(a) Drain piping should always be in a downhill grade (1/50~1/100) and avoid riding across an elevation or making traps.



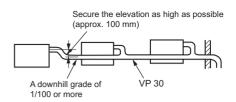


- (b) When connecting the drain pipe to unit, pay sufficient attention not to apply excess force to the piping on the unit side. Also, fix the piping at a point as close as possible to the unit.
- (c) For drain pipe, use hard PVC general purpose pipe VP-25(I.D.1") which can be purchased locally. When connecting, insert a PVC pipe end securely into the drain socket before tightening securely using the attached drain hose and clamp. Adhesive must not be used connection of the drain socket and drain hose (accessory).





(d) When constructing drain piping for several units, position the common pipe about 100 mm below the drain outlet of each unit as shown in the sketch. Use VP-30(11/4") or thicker pipe for this purpose.

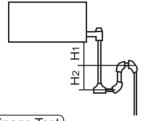


- (e) The stiff PVC pipe put indoor side should be heat insulated.
- (f) Avoid putting the outlet of drain hose in the places with irritant gas generated. Do not insert the drain hose directly into drainage, where the gas with sulfur may be generated.
- (g) Backwater bend

Because the drain spout is at the position, which negative pressure may occur. So with the rise of water level in the drain pan, water leakage may occur. In order to prevent water leakage, we designed a backwater bend.

The structure of backwater bend should be able to be cleaned. As the below figure shown, use T type joint. The backwater bend is set near the air conditioner.

• As figure shown, set a backwater bend in the middle of drain hose.



H1=100mm or the static pressure of air sending motor H2=1/2H1 (or between 50~100mm)

Drainage Test

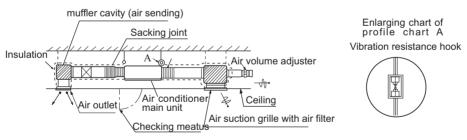
- ① Conduct a drainage test after completion of the electrical work.
- ② During the trial, make sure that drain flows properly through the piping and that no water leaks from connections.
- ③ In case of a new building, conduct the test before it is furnished with the ceiling.
- 4 Be sure to conduct this test even when the unit is installed in the heating season.



Procedures

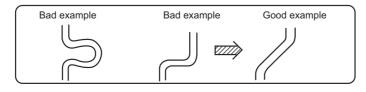
- ① Supply about 1000 cc of water to the unit through the air outlet using a feed water pump.
- (2) Check the drain while cooling operation.

6. Installation of air suction and discharging duct



Please consult the after-sales service worker of Haier Air Conditioner for the choosing and installation of suction inlet, suction duct, discharging outlet and discharging duct. Calculating the design drawing and outer static pressure, and choose the discharging duct with proper length and shape.

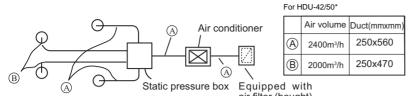
- The length difference among every duct is limited below 2:1.
- Reduce the length of duct as possible as can.
- Reduce the amount of bend as possible as can.
- Use heat insulation material to bind and seal the part connecting main unit and the flare part of air discharging duct. Perform duct installation work, before the ceiling fit.





7. Calculation method of the dimension of the simple quadrate air duct

Presuming the unit length friction impedance of the duct is 1Pa/m, when the dimension of one side of the air duct is fixed as 250mm, as shown below:



1 0171	DOOI WITH IT ILLY	una / 100014/ 11/ 12	., (
	Air volume	Duct(mmxmm)	Air volume	Duct(mmxmm)
A	2400m³/h (40m³/min)	250x560	1200m³/h (20m³/min)	250x310
lack	600m³/h (10m³/min)	250x190	300m³/h (5m³/min)	250x120
	The second second			The state of the s

For ADGENIAHAEA and ALIGENIATAEA

The calculation of duct resistance (the simple calculation is as follow table)

Straight part	Calculate as per 1m length 1Pa, 1Pa/m
Bend part	Each bend takes as a3~4m long straight duct
Air out part	Calculate as 25Pa
Static pressure box	Calculate as 50Pa/each
Air inlet grille (with air filter)	Calculate as 40Pa/each

• The chosen chart of simple duct

Note:1Pa/m=0.1mmAg/m

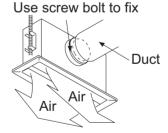
Shape	Square duct
Air volume	Dimension
m ³ /h(m ³ /n)	(mmxmm)
100	250 x 60
200	250 x 90
300	250 x 120
400	250 x 140
500	250 x 170
600(10)	250 x 190
800	250 x 230
1,000	250 x 270
1,200(20)	250 x 310
1,400	250 x 350
1,600	250 x 390

Shape	Square duct
Air volume	Dimension
m ³ /h(m ³ /n)	(mmxmm)
1,800(30)	250 x 430 250 x 470
2000 2400	250 x 560
3,000(50) 3,500	250 x 650 250 x 740
4,000	250 x 830
4,500 5,000	250 x 920 250 x 1000
5,500 6,000(100)	250 x 1090 250 x 1180
0,000(100)	

8. The attentive matters in installation of air suction and discharging duct

- Recommend to use anti-frost and sound-absorbing duct. (locally bought)
- The duct installation work should be finished before the fitment of ceiling.
- The duct must be heat insulated.
- The specific air-discharging outlet should be installed at the place where the airflow can be reasonably distributed.
- The surface should leave a checking meatus for checking and maintenance.

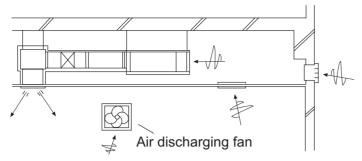
Special air discharging outlet



9. The examples of improper installation

- Do not use air in duct and take the ceiling inner side instead. The result is because of the irregular outer air mass, strong wind and sunshine, the humidity is increased.
- There may be water drop on the outside of duct. For cement and other new constructions, even if not taking ceiling inner side as duct, the humidity will also be so high. At this time, use glass fiber to perform heat preservation to the whole. (use iron net to bind the glass fiber)
- Maybe exceeding the unit operation limit (for example: when indoor dry bulb temperature is 35degree, web bulb temperature is 24degree), it may lead to overload of compressor.
- Affected by the capacity of air discharging fan, the strong wind in the outer duct and wind direction, when unit air sending volume exceeds the limit, the discharged water of heat exchanger will overflow, leading to water leakage.





Improper example

10. The operation method of fan controller

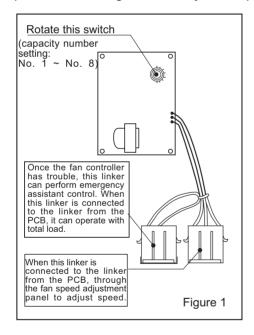
Through the fan controller switch in the electric box, the air volume of this unit can be continuously adjusted. It is unnecessary to adjust air volume through the duct side wind level (unit outside static adjustment). The air volume set should be in the operation air volume range.

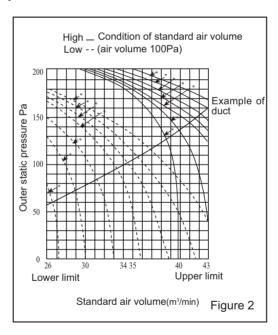
Figure I shows the position of fan controller in the electric box and operation method.

After finishing the electric work, perform test run. According to the main points in Figure II making the chosen switch No. accordant. And confirm if it reaches the needed air volume.

Note:

- 1) When operating the fan controller, it is possible to touch the electric charging part, so do cut off the power supply.
- 2) Do not set the dial at the position less than 1.
- 3) The figure circled in Figure II indicate the capacity number of fan controller. The non-listed capacity number may exceed the permitted operation capacity range, so it is impossible to operate.
- 4) When delivering from factory, the capacity number of fan controller is set at □No.5□.





- The example of the method of choosing capacity number:
- 1) If the unit is in high-speed operation, needing take outer static pressure is 180Pa in capacity air volume 34m³/min as working condition point, according to Figure II □The characteristic chart of air volume □, the capacity number of fan controller is No. 2.
- 2) If the unit is in low speed operation, needing take outer static pressure is 60Pa in capacity air volume $32m^3$ /min as working condition point, according to Figure II \Box The characteristic chart of air volume \Box , the capacity number of fan controller is No. 4.

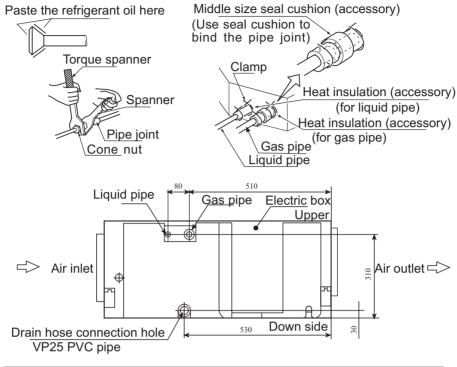
11. Refrigerant pipe

[The air side pipe, liquid side pipe must be faithfully heat insulated, if no heat insulation, it may cause water leakage.]

The outdoor unit has been charged with refrigerant.



- When connect the pipe to the unit or dismantling the pipe from the unit, please follow the figure shown, use spanner and torque spanner together.
- When connect cone nut, the inner side and outside of cone nut should paste with refrigerant oil. Use hand to twist 3-4 rings, then fasten with spanner.
- Referring to Table I to confirm the fasten torque. (too tight may damage nut leading to leakage)
- Check if the connection pipe leaks, then do heat insulation treatment, as below figure shown.
- Only use seal cushion to bind the joint part of air pipe and heat insulation parts.



Specification of pipe (mm)	Tighten torque	Cone dimension A (mm)	Cone
Ф 9.52	3270~3990 N·cm (333~407 kgf·cm)	12.0~12.4	90°±0.5 T R0.4~0.8
Ф 15.88	6180~7540 N·cm (630~770 kgf·cm)	18.6~19.0	
Φ 19.05	9720~11860 N·cm (990~1210 kgf·cm)	22.9~23.3	

5. Electric wiring

⚠ WARNING -

DANGER OF BODILY INJURY OR DEATH

TURN OFF ELECTRIC POWER AT CIRCUIT BREAKER OR POWER SOURCE BEFORE MAKING ANY ELECTRIC CONNECTIONS. GROUND CONNECTIONS MUST BE COMPLETED BEFORE MAKING LINE VOLTAGE CONNECTIONS.

(1) Selection of size of power supply and interconnecting wires.

Precautions for Electric wiring

- Electric wiring work should be conducted only by authorized personnel.
- Do not connect more than three wires to the terminal block. Always use round type crimped terminal lugs with insulated grip on the ends of the wires.
- Use copper conductor only.

Select wire sizes and circuit protection from table below. (This table shows 20 m length wires with less than 2% voltage drop.)

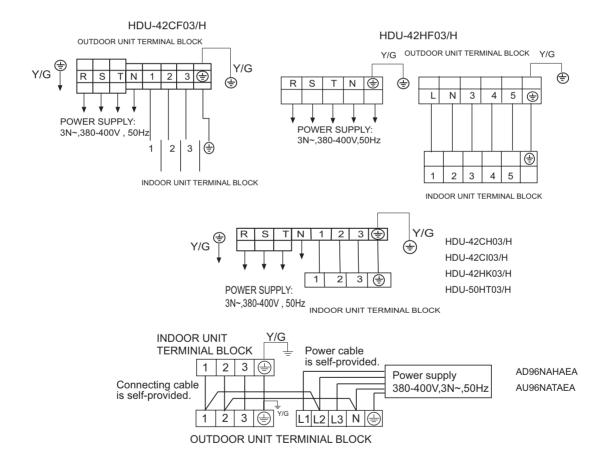


Item		Circu	it breaker	Power	Earth leakag	je breaker
Model	Phase	Switch breaker (A)	Overcurrent protector	source wire size	Switch break	Leak curren
HDU-42CF03/H HDU-42CH03/H HDU-42HF03/H HDU-42CI03/H HDU-50HT03/H HDU-42HK03/H	3	30	20	2.5mm²	30	30mA
AU96NATAEA AD96NAHAEA	3	40	30	6.0mm ²	30	30mA

(2) Wiring connection

Make wiring to supply power to the outdoor unit, so that the power for the indoor unit is supplied by terminals.

Note: For HDU-42CF03/H, HDU-42HF03/H, remember to connect the black terminal of indoor unit with the black terminal of outdoor unit properly using the connecting wire in the accesory bag, and connect the blue terminal of indoor unit with the white terminal of out terminal as the same (For heat pump model). For cooling only unit, just connect the black terminal of indoor unit with the black terminal of outdoor unit properly. Otherwise the wired controller will display "E4" or "E6" malfunction.





Cabinet indoor unit (HPU-42~HPU-48 and AP96NACAEA)

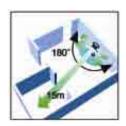
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1. Features

Long Distance Air Sending

Wide angle 180 kinds of air sending modes, and the distance of air sending can reach to 15m



Auxiliary Electric Heating Function

The unit has a optional auxiliary electric heating function, so if the outdoor temperature is too low, it can be used normally, and heating rapidly

Optional Healthy Module

Healthy Nanometer silver ion filter, lonizer to bring The refreshing air to your room. Enjoy the feeling of a forest at home.





Photic bacteria-killing medium function, it can absorb deleterious gas generated by fitment.

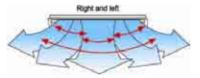


Fresh air function can realize air convection between inside and outside, not only ensure indoor air fresh, but also make interior air keep plus pressure, avoid dirty air enter the room.(need to handtailor)



3-D airflow (for HPU-42CV03, HPU-42HV03 and HPU-48HV03)

The air conditioner adopts two stepping motors to combines vertical and horizontal auto-swing to circulate cool/warm air to the every corner of the room



New Structure Design

Patent "H" shape appearance design and entire closed type air outlet grille, add elegance to any style of interior







Bigger LCD Screen

The cabinet type with the model of HPU-42CV03 HPU-42HV03 and HPU-48HV03 has a very big LCD screen, so operation state of the unit will be clear at a glance, it is very convenient to use





2. Specifications

item			Mod	el	HPU-4	2CF03
Function	on				cooling	heating
Capaci				BTU/h	41000	
Capaci	,			kW	12.0	
	le heat ratio				75%	
	ower input			W	4700	
	ower input			W	5200	
EER o				W/W	2.55	
	nidifying capacity			10 - ³ ×m ³ /h	5.	
Power				section		
Signal				 	5×2.5	omm
	cting cable			section	4×0.75	5mm²
	source			section	0.000.40	0)/ 50117
		<u> </u>		N, V, Hz	3, 380-40	
	ng /Max.Running curren	t		A/A	Cooling	
Start C				Α	50	
	of anti electric shock				CLA	
	breaker	L.,		Α	30	
	perating pressure of he			Мра	2.	
Max. o	perating pressure of co	ld side		Мра	2.	
	Unit model (color)				HPU-42CF03(ID	, ,
		Type x Number			centrifu	
	Fan	Speed(H-M-L)		r/min	540/38	30/320
	i aii	Fan motor output po	ower	kW	0.1	15
		Air-flow(H-M-L)		m³/h	150	60
Ξ		Type / Diameter		mm	inner gro	oved/φ7
Indoor unit	Heat exchanger	Row/ Fin pitch			2/1	
00		Temp. scope		$^{\circ}$	cooling: 43~60	heating: 2~7
<u> </u>		External	(LxWxH)	mm×mm×mm	1820×5	
	Dimension	Package		mm×mm×mm	1905×6	
	Air sending angle	racitage	(LAWAII)		16	
I	7 th ochanig angle					
		e /wired /model)		1		
	Control type (Remot	te /wired /model)		dB(A)	Rem	note
	Control type (Remot Noise level (H-M-L)		dB(A)	Rem 56/4	note 6/40
	Control type (Remot Noise level (H-M-L Weight (Net / S			dB(A) kg/kg	Rem 56/4 60/	note 6/40 64
	Control type (Remot Noise level (H-M-L) Shipping)		` '	Rem 56/4 60/ HPU-42CF03(OUT	note 6/40 664 FDOOR) (WHITE)
	Control type (Remot Noise level (H-M-L Weight (Net / S	Shipping) Model / Manufactur	e	` '	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY	note 6/40 6/4 FDOOR) (WHITE) '1L / DAIKIN
	Control type (Remot Noise level (H-M-L Weight (Net / S	Shipping) Model / Manufactur Oil model	e	` '	Rem 56/41 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H	note 6/40 64 FDOOR) (WHITE) /1L / DAIKIN K/DAPHNE SE56P
	Control type (Remot Noise level (H-M-L Weight (Net / S	Shipping) Model / Manufactur Oil model Oil charging	e	` '	Rem 56/41 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500-	note 6/40 64 FDOOR) (WHITE) '1L / DAIKIN K/DAPHNE SE56P 1700
	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color)	Model / Manufactur Oil model Oil charging Type	e	` '	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR	note 6/40 64 FDOOR) (WHITE) '1L / DAIKIN K/DAPHNE SE56P 1700 OLL
	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color)	Model / Manufactur Oil model Oil charging Type Protection type	e	` '	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma	note 6/40 64 FDOOR) (WHITE) '1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection
	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color)	Model / Manufactur Oil model Oil charging Type Protection type Starting method	e	` '	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma	note 6/40 64 FDOOR) (WHITE) '1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start
ıt	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color)	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number	e	kg/kg	Rem 56/4 60/ HPU-42CF03(OUT) JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma	note 6/40 64 FDOOR) (WHITE) Y1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start
unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color)	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed		kg / kg	Rem 56/4 60/ HPU-42CF03(OUT) JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia	note 6/40 64 FDOOR) (WHITE) '1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1
or unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color)	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po		kg / kg	Rem 56/4 60/ HPU-42CF03(OUT) JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74	note 6/40 64 FDOOR) (WHITE) Y1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start sl*1
itdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color)	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po		kg / kg	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.7	note 6/40 64 FDOOR) (WHITE) Y1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 40 15
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output podir-flow(H-M-L) Type / Diameter		kg / kg	Rem 56/4 60/ HPU-42CF03(OUT) JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.7	note 6/40 64 FDOOR) (WHITE) Y1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start sl*1 60 15 00 ved/φ9.52
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color)	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output podir-flow(H-M-L) Type / Diameter Row / Fin pitch		r/min kW m³/h mm	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.7 600 inner groov	note 6/40 64 FDOOR) (WHITE) Y1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 40 15 00 ved/φ9.52
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output podir-flow(H-M-L) Type / Diameter		r/min kW m³/h	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.1 600 inner groot 2/11 cooling: 43~60	note 6/40 64 FDOOR) (WHITE) Y1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 60 15 00 ved/φ9.52 .65 / heating: 2~7
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output podir-flow(H-M-L) Type / Diameter Row / Fin pitch		r/min kW m³/h mm	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.7 600 inner groov	note 6/40 64 FDOOR) (WHITE) Y1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 60 15 00 ved/φ9.52 .65 / heating: 2~7
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope	ower	r/min kW m³/h mm	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.1 600 inner groot 2/11 cooling: 43~60	note 6/40 64 FDOOR) (WHITE) F1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 F0 F15 F15 F15 F17
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.0 600 inner groot 2/1 cooling: 43~60 1008×4 1130×4	note 6/40 64 FDOOR) (WHITE) F1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 F0 F15 F15 F15 F17 F17 F17 F17 F18
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger Dimension	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.0 600 inner groot 2/1 cooling: 43~60 1008×44	note 6/40 64 FDOOR) (WHITE) F1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 F0 F15 F15 F15 F17 F17 F17 F17 F18
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.0 600 inner groot 2/1 cooling: 43~60 1008×4 1130×4 Capillal	note 6/40 64 FDOOR) (WHITE) F1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 F0 F15 F15 F15 F17 F17 F17 F18
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.: 600 inner groot 2/1 cooling: 43~60 1008×4 1130×4: Capillal Autor	note 6/40 64 FDOOR) (WHITE) F1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 F0 F15 F15 F15 F17 F17 F17 F18
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping)	ower (LxWxH)	r/min kW m³/h mm °C mm×mm×mm mm×mm×mm mm/mm dB(A) kg / kg	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.7 600 inner groot 2/1. cooling: 43~60 1008×4 1130×4; Capillal Autor	note 6/40 64 FDOOR) (WHITE) F1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 40 15 00 ved/φ9.52 .65 / heating: 2~7 47×830 90×930 ry tube matic 9
Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level	hipping) Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge	ower (LxWxH)	r/min kW m³/h mm °C mm×mm×mm mm×mm×mm mm/mm dB(A) kg / kg g	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0 600 inner groon 2/1. cooling: 43~60 1008×4- 1130×4: Capilla Autor 55 92/7	note 6/40 64 FDOOR) (WHITE) 71L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 10 15 00 ved/φ9.52 .65 / heating: 2~7 47×830 90×930 ry tube matic 9 100 3150
	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S Refrigerant	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge Recharge	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.7 600 inner groot 2/1. cooling: 43~60 1008×4 1130×4; Capillal Autor 59 92/7	note 6/40 64 FDOOR) (WHITE) 71L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 40 15 00 ved/φ9.52 .65 / heating: 2~7 47×830 90×930 ry tube matic 9 100 3150 5
	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S	Shipping) Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output poor Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge Recharge Liquid	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm	Rem 56/4 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500-SCR Inner therma direct Axia 74 0 600 inner grood inner grood 2/1. cooling: 43~60 1008×4-1130×4: Capilla Autor 55 92/7 R22/3	note 6/40 64 FDOOR) (WHITE) 71L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 10 15 00 ved/φ9.52 .65 / heating: 2~7 47×830 90×930 ry tube matic 9 100 3150 5 52
	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S Refrigerant Pipe	Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge Recharge	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m	Rem 56/4 60/ 60/ 60/ 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500-SCR Inner therma direct Axia 74 0.7 600 inner groot 2/1. cooling: 43~60 1008×4 1130×4 Capillar Autor 5: 92/7 R22/3 7:	note 6/40 64 FDOOR) (WHITE) F1L / DAIKIN F100 F1C / DAIKIN F1C / DAIKI
PIPING Outdoor unit	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S Refrigerant	Shipping) Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output poor Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge Recharge Liquid Gas	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm mm	Rem 56/4 60/ HPU-42CF03(OUT) JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.7 600 inner groot 2/11 cooling: 43~60 1008×4 1130×4 Capilla Autor 59 92/7 R22/3 79 φ9.	note 6/40 64 FDOOR) (WHITE) F1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 10 15 00 ved/φ9.52 .65 / heating: 2~7 47×830 90×930 ry tube matic 9 100 3150 5 52 .05 red
	Control type (Remot Noise level (H-M-L Weight (Net / S Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S Refrigerant Pipe	Shipping) Model / Manufactur Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output poor Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge Recharge Liquid	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm	Rem 56/4 60/ 60/ 60/ 60/ HPU-42CF03(OUT JT160BCBY SUNISO 4GSDID-H 1500-SCR Inner therma direct Axia 74 0.7 600 inner groot 2/1. cooling: 43~60 1008×4 1130×4 Capillar Autor 5: 92/7 R22/3 7:	note 6/40 64 FDOOR) (WHITE) F1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 40 115 00 ved/φ9.52 .65 / heating: 2~7 47×830 90×930 ry tube matic 9 100 3150 5 52 .05 red 0



item			Mod	el	HPU-4	2HF03
Functio	on				cooling	heating
Capaci	tv			BTU/h	41000	44000
Capaci	·			kW	12.0	13.0
	le heat ratio				75%	
	ower input			W	4700	4850
	ower input			W	5200	5600
EER o				W/W	2.55	2.68
Dehum	idifying capacity			10 - ³ ×m ³ /h	5.	0
Power				section	5×2.5	imm ²
Signal	cable			section		
Conne	cting cable			section	4×0.75	bmm ⁻
Power	source			N, V, Hz	3, 380-40	0V, 50HZ
Runnin	g /Max.Running current	t		A/A	Cooling 8.5/9.3	Heating 8.8/9.6
Start C	urrent			Α	50	_
Class of	of anti electric shock				CLASS I	CLASS I
Circuit	breaker			Α	30	30
	perating pressure of he			Мра	2.8	2.8
Max. o	perating pressure of col	d side		Мра	2.8	2.8
	Unit model (color)				HPU-42HF03(ID	
		Type x Number			centrifu	
	Fan	Speed(H-M-L)		r/min	540/38	30/320
	rali	Fan motor output po	ower	kW	0.1	15
.=		Air-flow(H-M-L)		m³/h	150	60
'n	Heat exchanger	Type / Diameter		mm	inner gro	
ndoor unit	rieat exchanger	Temp. scope		$^{\circ}$	cooling: 43~60	
рg	Dimension	External	(LxWxH)	mm×mm×mm	1820×5	
_	Diffiction	Package	(LxWxH)	mm×mm×mm	1905×6	25×415
	Air sending angle				16	60
	Control type (Remot	e /wired /model)			Rem	note
	Noise level (H-M-L)		•	dB(A)	56/4	
	Noise level (H-M-L) Weight (Net / S) hipping)	•	dB(A) kg/kg	60/	64
	Noise level (H-M-L)	hipping)		` ,	60/ HPU-42HF03(OU)	64 FDOOR) (WHITE)
	Noise level (H-M-L) Weight (Net / S	hipping) Model / Manufacture	e	` ,	60/ HPU-42HF03(OUT JT160BCBY	TDOOR) (WHITE) TL / DAIKIN
	Noise level (H-M-L) Weight (Net / S	hipping) Model / Manufacture Oil model	e	` ,	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-F	64 FDOOR) (WHITE) '1L / DAIKIN K/DAPHNE SE56P
	Noise level (H-M-L) Weight (Net / S Unit model (color)	hipping) Model / Manufacture Oil model Oil charging	e	` ,	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500-	7000R) (WHITE) 71L / DAIKIN C/DAPHNE SE56P 1700
	Noise level (H-M-L) Weight (Net / S	hipping) Model / Manufacture Oil model Oil charging Type	e	` ,	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR	7000R) (WHITE) 71L / DAIKIN 6/DAPHNE SE56P 1700 OLL
	Noise level (H-M-L) Weight (Net / S Unit model (color)	hipping) Model / Manufacture Oil model Oil charging Type Protection type	е	` ,	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma	764 FDOOR) (WHITE) F1L / DAIKIN K/DAPHNE SE56P F1700 OLL Bal protection
	Noise level (H-M-L) Weight (Net / S Unit model (color)	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method	e	` ,	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma	764 FDOOR) (WHITE) F1L / DAIKIN
.1.	Noise level (H-M-L) Weight (Net / S Unit model (color)	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number	e	kg/kg	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma	FOOOR) (WHITE) Y1L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1
unit	Noise level (H-M-L) Weight (Net / S Unit model (color) Compressor	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed		kg / kg	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia	FOOR) (WHITE) FIL / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1
oor unit	Noise level (H-M-L) Weight (Net / S Unit model (color)	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po		kg / kg	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia	FOOR) (WHITE) FOOR) (WHITE) FIL / DAIKIN FINAL SESSEP FIN
utdoor unit	Noise level (H-M-L) Weight (Net / S Unit model (color) Compressor	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po		r/min kW m³/h	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74	FOOR) (WHITE) FIL / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 40 15
Outdoor unit	Noise level (H-M-L) Weight (Net / S Unit model (color) Compressor	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output podir-flow(H-M-L) Type / Diameter		kg / kg	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.4	FOOR) (WHITE) FIL / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 60 15 00 ved/φ9.52
Outdoor unit	Noise level (H-M-L) Weight (Net / S Unit model (color) Compressor	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pod Air-flow(H-M-L) Type / Diameter Row / Fin pitch		r/min kW m³/h mm	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0.7 600 inner groov	FOOR) (WHITE) FIL / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 40 15 00 ved/φ9.52
Outdoor unit	Noise level (H-M-L) Weight (Net / S Unit model (color) Compressor	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output poor Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope	ower	r/min kW m³/h mm	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0 600 inner groot 2/1. cooling: 43~60	FOOR) (WHITE) FIDOOR) (WHITE) FIL / DAIKIN F
Outdoor unit	Noise level (H-M-L) Weight (Net / S Unit model (color) Compressor	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output poor Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 74 0.0000000000000000000000000000000000	FOOR) (WHITE) FIDOOR) (WHITE) FIL / DAIKIN F
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output poor Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0 600 inner groot 2/1. cooling: 43~60 1008×4 1130×4:	64 FDOOR) (WHITE) 71L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 60 15 00 ved/\(\phi\)9.52 .65 / heating: 2~7 47×830 90×930
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output poor Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-F 1500- SCR Inner therma direct Axia 74 0.7 600 inner groot 2/1 cooling: 43~60 1008×4 1130×4; Capilla	164 FDOOR) (WHITE) 11L / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 10 15 00 ved/φ9.52 .65 / heating: 2~7 47×830 90×930 ry tube
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output poor Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-F 1500- SCR Inner therma direct Axia 74 0.7 600 inner groot 2/1 cooling: 43~60 1008×4 1130×4; Capilla Autor	FOOR) (WHITE) FIDOOR) (WHITE) FIL / DAIKIN
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A)	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-F 1500- SCR Inner therma direct Axia 74 0.7 600 inner groot 2/1 cooling: 43~60 1008×4 1130×4; Capilla Autor	FOOR (WHITE) FIDOOR) (WHITE) FIL / DAIKIN F
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S)	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping)	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0 600 inner groon 2/1. cooling: 43~60 1008×4. 1130×4: Capillal Autor	FOOR) (WHITE) FIDOOR) (WHITE) FIL / DAIKIN F
Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner therma direct Axia 74 0 600 inner groon 2/1. cooling: 43~60 1008×4 1130×4 Capilla Autor 55 94/7	FOOR) (WHITE) FIDOOR) (WHITE) FIDOOR) (WHITE) FIL / DAIKIN FIL / DAIKI
Outdoor	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S)	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge Liquid	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mm/mm dB(A) kg / kg g mm	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 74 0 600 inner groon 2/1. cooling: 43~60 1008×4- 1130×4: Capilla Autor 55 94/- R22/3	FOOR) (WHITE) FIDOOR) (WHITE) FIL / DAIKIN F
Outdoor	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S) Refrigerant Pipe	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 74 0.7 600 inner groon 2/11 cooling: 43~60 1008×4 1130×4 Capilla Autor 59 94/7 R22/3 φ9.	664 FDOOR) (WHITE) FIL / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 40 115 00 ved/φ9.52 .65 / heating: 2~7 47×830 90×930 ry tube matic 9 102 3150 52
PIPING Outdoor unit	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S) Refrigerant	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output por Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge Liquid Gas	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g mm mm	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 74 0.7 600 inner groot 2/11 cooling: 43~60 1008×4 1130×4 Capilla Autor 59 94/7 R22/3 φ9.	664 FDOOR) (WHITE) FIL / DAIKIN K/DAPHNE SE56P 1700 OLL al protection start al*1 I0 I15 I0 I0 Ived/φ9.52 III III III III III III III III III I
Outdoor	Noise level (H-M-L) Weight (Net / S) Unit model (color) Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level Weight (Net / S) Refrigerant Pipe	hipping) Model / Manufacture Oil model Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package thod Shipping) Type / Charge Liquid	ower (LxWxH)	r/min kW m³/h mm °C mmxmmxmm mm/mm dB(A) kg / kg g mm	60/ HPU-42HF03(OUT JT160BCBY SUNISO 4GSDID-H 1500- SCR Inner thermal direct Axia 74 0.7 600 inner groon 2/11 cooling: 43~60 1008×4 1130×4 Capilla Autor 59 94/7 R22/3 φ9.	664 FDOOR) (WHITE) FIL / DAIKIN



item			Mod	el le	HPU-4	2CV03
Function	nn .		mod	J.	cooling	heating
Capaci				BTU/h	41000	
Capaci	•			kW	12.0	
	le heat ratio				70%	
	ower input			W	3700	
	ower input			W	4400	
EER OI				W/W	3.24	
	nidifying capacity			10 - ³ ×m ³ /h	5.24	0
Power				section	5G×2.	
Signal				section		
_	cting cable				4G×0.7	75mm ²
	•			section	ON 200 44	201/ 501/7
Power		•		N, V, Hz	3N, 380-40	
	ng /Max.Running curren	I .		A/A	Cooling 6	
Start C				Α	5	
	of anti electric shock				CLASS I	
	breaker	<u> </u>		A	2	
	perating pressure of he			Мра	2.8	
Max. o	perating pressure of co	ld side		Мра	2.8	
	Unit model (color)				HPU-42CV	,
		Type × Number			centrifu	
	Fan	Speed(H-M-L)		r/min	430/40	
	l all	Fan motor output po	ower	kW	0.0	
ij		Air-flow(H-M-L)		m³/h	17	50
Indoor unit	Hoot ovehenger	Type / Diameter		mm	inner gro	oved/φ7
8	Heat exchanger	Total Area		m²	0.4	45
<u>u</u>	Dimension	External	(LxWxH)	mm×mm×mm	1850×6	00×350
	Dimension	Package	(LxWxH)	mm×mm×mm	1980×6	60×420
	Control type (Remot	e /wired /model)			Ren	note
	Noise level (H-M-L			dB(A)	51/4	8/44
	Weight (Net / S	Shipping)		kg / kg	59/	
	Unit model (color)			3 3	HPU-42CV	
	\ /	Model / Manufactur	е		VR54KS-TFP-5	
		Oil type			30	
	_	Oil charging			1360	
	Compressor	Type			SCR	
		Protection type			Inner therma	
		Starting method			direct	
nit		Type × Number			Axia	
Ë		Speed		r/min	84	
8	IC			.,		
ı ~	Fan	Fan motor output pe	ower	kW/	0.0	06
utd	ran	Fan motor output po	ower	kW m³/h		06
Outdoor unit	Fan	Air-flow(H-M-L)	ower	m³/h	60	00
Outd	Heat exchanger	Air-flow(H-M-L) Type / Diameter	ower		60 inner groo	00 ved/φ9.52
Outd		Air-flow(H-M-L) Type / Diameter Row / Fin pitch		m³/h mm	60 inner groo 2/1	00 ved/φ9.52 I.6
Outd		Air-flow(H-M-L) Type / Diameter Row / Fin pitch External	(LxWxH)	m³/h mm	60 inner groo 2/ 948*34	00 ved/φ9.52 I.6 0*1250
Outd	Heat exchanger Dimension	Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package		m³/h mm mmxmmxmm	60 inner groo 2/1 948*34 1090*41	00 ved/φ9.52 I.6 0*1250 I0*1350
Outd	Heat exchanger Dimension Refrigerant control me	Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package	(LxWxH)	m³/h mm mmxmmxmm mmxmmxmm	60 inner groo 2/* 948*34 1090*4* Capillal	00 ved/φ9.52 I.6 0*1250 I0*1350 ry tube
Outd	Heat exchanger Dimension Refrigerant control mei Noise level	Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod	(LxWxH)	m³/h mm mm×mm×mm mm×mm/mm dB(A)	60 inner groo 2/* 948*34 1090*4* Capillal	00 ved/φ9.52 I.6 0*1250 I0*1350 ry tube 9
Outd	Heat exchanger Dimension Refrigerant control mei Noise level	Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod Shipping)	(LxWxH)	m³/h mm mm×mm×mm mm×mm×mm mm/mm dB(A) kg / kg	60 inner groo 2/2 948*34 1090*42 Capillat 5	00 ved/φ9.52 1.6 0*1250 10*1350 ry tube 9
Outd	Heat exchanger Dimension Refrigerant control mei Noise level	Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod Shipping) Type / Charge	(LxWxH)	m³/h mm mm×mm×mm mm×mm/mm dB(A) kg / kg g	60 inner groo 2/2 948*34 1090*42 Capilla 5 106/ R22/	00 ved/φ9.52 1.6 0*1250 10*1350 ry tube 9 /111 3400
	Heat exchanger Dimension Refrigerant control merologies level Weight (Net / S	Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod Shipping) Type / Charge Recharge quantity	(LxWxH)	m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m	60 inner groo 2/2 948*34 1090*42 Capillar 5 106, R22/	00 ved/φ9.52 1.6 0*1250 10*1350 ry tube 9 /111 3400 5
	Heat exchanger Dimension Refrigerant control me Noise level Weight (Net / S Refrigerant	Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod Shipping) Type / Charge Recharge quantity Liquid	(LxWxH)	m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm	60 inner groo 2/ 948*34 1090*4' Capillar 5 1066 R22/	00 ved/φ9.52 1.6 0*1250 10*1350 ry tube 9 //111 3400 5
	Heat exchanger Dimension Refrigerant control metodose level Weight (Net / State of the state	Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod Shipping) Type / Charge Recharge quantity	(LxWxH)	m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m	60 inner groo 2/ 948*34 1090*4* Capillar 5 106 R22/ 7 φ9	00 ved/φ9.52 1.6 0*1250 10*1350 ry tube 9 //111 3400 5 .52
PIPING Outd	Heat exchanger Dimension Refrigerant control me Noise level Weight (Net / S Refrigerant	Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod Shipping) Type / Charge Recharge quantity Liquid Gas	(LxWxH)	m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm mm	60 inner groo 2/ 948*34 1090*4* Capillar 5 106 R22/ 7 φ9 φ19	00 ved/\(\phi\).52 1.6 0*1250 10*1350 ry tube 9 //111 3400 5 .52 0.05 red
	Heat exchanger Dimension Refrigerant control metodose level Weight (Net / State of the state	Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod Shipping) Type / Charge Recharge quantity Liquid	(LxWxH)	m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) kg / kg g g/m mm	60 inner groo 2/ 948*34 1090*4* Capillar 5 106 R22/ 7 φ9	00 ved/\(\phi\).52 1.6 0*1250 10*1350 ry tube 9 //111 33400 5 .52 0.05 red 0



item			Mod	el	HPU-4	2HV03
Function	n			j.	cooling	heating
Capaci				BTU/h	41000	44000
Capaci	•			kW	12.0	13.0
	le heat ratio			KVV	70%	10.0
	ower input			W	3700	4000
	ower input			W	4400	4900
EER O				W/W	3.24	3.25
	idifying capacity			10 - ³ ×m ³ /h	5.24	
Power				l		
				section	5G×2.	5mm ⁻
Signal				section	4G×0.7	75mm ²
	cting cable			section	011 000 44	201/ 501/7
	source			N, V, Hz	3N, 380-40	
	g /Max.Running curren	T .		A/A	Cooling 6.9A/7.8A	
Start C				Α	5	
	of anti electric shock				CLASS I	CLASS I
	breaker			A	2	
	perating pressure of he			Mpa	2.8	2.8
Max. o	perating pressure of co	ld side		Мра	2.8	2.8
	Unit model (color)				HPU-42HV	,
		Type x Number			centrifu	
	Fan	Speed(H-M-L)		r/min	430/40	
	i dii	Fan motor output po	ower	kW	0.0	
υjt		Air-flow(H-M-L)		m³/h	17	50
Indoor unit	Heat exchanger	Type / Diameter		mm	inner gro	oved/φ7
8	i leat exchanger	Total Area		m²	0.4	
Ĕ	Dimension	External	(LxWxH)	mm×mm×mm	1850×6	00×350
	Dilliension	Package	(LxWxH)	mm×mm×mm	1980×6	60×420
	Control type (Remot	e /wired /model)			Ren	note
	Noise level (H-M-L			dB(A)	51/4	8/44
	Weight (Net / S	Shipping)		kg / kg	59/	70
	Unit model (color)				HPU-42HV	03(WHITE)
	Office House (Color)					00(************************************
	Office model (color)	Model / Manufactur	e		VR54KS-TFP-5	
	Offic Model (Color)		e		VR54KS-TFP-5	42/COPELAND
		Oil type	e		VR54KS-TFP-5	42/COPELAND GS
	Compressor	Oil type Oil charging	e		VR54KS-TFP-5 30 1360	42/COPELAND SS DCC
		Oil type Oil charging Type	e		VR54KS-TFP-5 30 1360 SCR	42/COPELAND GS OCC OLL
		Oil type Oil charging Type Protection type	e		VR54KS-TFP-5 30 1360 SCR Inner therma	42/COPELAND GS DCC OLL al protection
		Oil type Oil charging Type Protection type Starting method	e		VR54KS-TFP-5 30 1360 SCR Inner therma	42/COPELAND GS OCC OLL al protection start
nit	Compressor	Oil type Oil charging Type Protection type Starting method Type × Number	e	r/min	VR54KS-TFP-5 30 1360 SCR Inner therma direct Axia	42/COPELAND GS DCC OLL al protection start al*2
or unit		Oil type Oil charging Type Protection type Starting method Type × Number Speed		r/min	VR54KS-TFP-5 30 1360 SCR Inner therma direct Axia	42/COPELAND GS OCC OLL al protection start al*2
door unit	Compressor	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po		kW	VR54KS-TFP-5 30 1360 SCR Inner therma direct Axia	42/COPELAND GS OCC OLL al protection start al*2 40 06
Outdoor unit	Compressor	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L)		kW m³/h	VR54KS-TFP-5 30 1360 SCR Inner therma direct Axia 84 0.0	42/COPELAND GS OCC OLL al protection start al*2 40 06 00
Outdoor unit	Compressor	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter		kW	VR54KS-TFP-5 30 1360 SCR Inner therma direct Axia 84 0.0 60 inner groo	42/COPELAND GS OCC OLL al protection start al*2 40 06 00 ved/φ9.52
Outdoor unit	Compressor Fan Heat exchanger	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch	ower	kW m³/h	VR54KS-TFP-5 30 1360 SCR Inner therma direct Axia 84 0.0 60 inner groo	42/COPELAND GS OCC OLL al protection start al*2 40 06 00 ved/φ9.52 1.6
Outdoor unit	Compressor	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External	ower (LxWxH)	kW m³/h mm	VR54KS-TFP-5 30 1360 SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34	42/COPELAND GS OCC OLL al protection start al*2 40 06 00 ved/φ9.52 1.6 0*1250
Outdoor unit	Compressor Fan Heat exchanger Dimension	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package	ower	kW m³/h mm	VR54KS-TFP-5 30 1360 SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34	42/COPELAND GS OCC OLL al protection start al*2 40 06 00 ved/φ9.52 1.6 0*1250 10*1350
Outdoor unit	Compressor Fan Heat exchanger Dimension Refrigerant control met	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package	ower (LxWxH)	kW m³/h mm	VR54KS-TFP-5 30 1360 SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34 1090*41 Capillai	42/COPELAND GS OCC OLL al protection start al*2 40 06 00 ved/φ9.52 1.6 0*1250 10*1350 ry tube
Outdoor unit	Compressor Fan Heat exchanger Dimension Refrigerant control metorstoring	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package	ower (LxWxH)	kW m³/h mm mm×mm×mm mm×mm×mm mm×mm×mm	VR54KS-TFP-5 3G 136(SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34 1090*41 Capillal Autor	42/COPELAND GS OCC OLL al protection start al*2 40 06 00 ved/φ9.52 1.6 0*1250 10*1350 ry tube matic
Outdoor unit	Compressor Fan Heat exchanger Dimension Refrigerant control met Defrosting Noise level	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod	ower (LxWxH)	kW m³/h mm mm×mm×mm mm×mm×mm mm/mm dB(A)	VR54KS-TFP-5 3G 136(SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34 1090*41 Capillal Autor	42/COPELAND GS OCC OLL al protection start al*2 40 06 00 ved/φ9.52 1.6 0*1250 10*1350 ry tube matic
Outdoor unit	Compressor Fan Heat exchanger Dimension Refrigerant control metorsting Noise level crankcase heater pow	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod	ower (LxWxH)	kW m³/h mm mm×mm×mm mm×mm×mm dB(A) W	VR54KS-TFP-5 3G 136(SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34 1090*41 Capillar Autor 5	42/COPELAND GS OCC OLL al protection start al*2 40 06 00 ved/φ9.52 1.6 0*1250 10*1350 ry tube matic 9 0
Outdoor unit	Compressor Fan Heat exchanger Dimension Refrigerant control methodology in the control methodology	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod er Shipping)	ower (LxWxH)	kW m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg	VR54KS-TFP-5 3G 136(SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34 1090*41 Capillar Autor 5 4	42/COPELAND GS OCC OLL al protection start al*2 40 06 00 ved/φ9.52 1.6 0*1250 10*1350 ry tube matic 9 0 (/111
Outdoor unit	Compressor Fan Heat exchanger Dimension Refrigerant control metorsting Noise level crankcase heater pow	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge	ower (LxWxH)	kW m³/h mm mm×mm×mm mm×mm×mm dB(A) W kg / kg g	VR54KS-TFP-5 3G 1366 SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34 1090*41 Capillar Autor 5 4 106/ R22/5	42/COPELAND 6S 0CC OLL al protection 5 start al*2 40 06 00 ved/φ9.52 1.6 0*1250 10*1350 ry tube matic 9 0 1/111 3400
	Compressor Fan Heat exchanger Dimension Refrigerant control metoefrosting Noise level crankcase heater pow Weight (Net / \$ Refrigerant	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge Recharge quantity	ower (LxWxH)	kW m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g g/m	VR54KS-TFP-5 3G 136(SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34 1090*41 Capillar Autor 5 4 106/ R22/5	42/COPELAND GS OCC OLL al protection : start al*2 H0 06 00 ved/φ9.52 I.6 0*1250 I0*1350 ry tube matic 9 0 ('1111 3400 5
	Compressor Fan Heat exchanger Dimension Refrigerant control methodology in the control methodology	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge Recharge quantity Liquid	ower (LxWxH)	kW m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g g/m mm	VR54KS-TFP-5 3G 1366 SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34 1090*41 Capillar Autor 5 4 106/ R22/5	42/COPELAND 6S DCC OLL al protection c start al*2 40 006 00 ved/φ9.52 1.6 0*1250 10*1350 ry tube matic 9 0 1111 3400 5 5 52
	Compressor Fan Heat exchanger Dimension Refrigerant control mei Defrosting Noise level crankcase heater pow Weight (Net / S Refrigerant	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge Recharge quantity	ower (LxWxH)	kW m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g g/m	VR54KS-TFP-5 3G 1366 SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34 1090*41 Capillar Autor 5 4 106/ R22/5 7 φ9.	42/COPELAND 6S 0CC OLL al protection 5 start al*2 40 006 00 ved/φ9.52 1.6 0*1250 10*1350 ry tube matic 9 0 1111 3400 5 5 52 9.05
PIPING Outdoor unit	Compressor Fan Heat exchanger Dimension Refrigerant control metoefrosting Noise level crankcase heater pow Weight (Net / \$ Refrigerant	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge Recharge quantity Liquid Gas	ower (LxWxH)	kW m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g g/m mm mm	VR54KS-TFP-5 3G 1366 SCR Inner therma direct Axia 82 0.0 60 inner groo 2/1 948*34 1090*41 Capillar Autor 5 4 106/ R22/5 7 φ9. φ19 Fla	42/COPELAND 6S 0CC OLL al protection 5 start al*2 40 06 00 ved/φ9.52 1.6 0*1250 10*1350 ry tube matic 9 0 //111 3400 5 5 52 9.05 red
	Compressor Fan Heat exchanger Dimension Refrigerant control mei Defrosting Noise level crankcase heater pow Weight (Net / S Refrigerant	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge Recharge quantity Liquid	ower (LxWxH)	kW m³/h mm mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g g/m mm	VR54KS-TFP-5 3G 1366 SCR Inner therma direct Axia 84 0.0 60 inner groo 2/1 948*34 1090*41 Capillar Autor 5 4 106/ R22/5 7 φ9.	42/COPELAND 6S DCC OLL al protection c start al*2 d0 06 00 ved/φ9.52 1.6 0*1250 10*1350 ry tube matic 9 0 0 //111 3400 5 5 52 9.05 red 0



Panelion	item			Mod	el	HPU-4	BHV03
Capacity				mod			
Capacity					BTU/h		•
Sensible heat ratio							
Max power input		,					
Max. power injust					\/\		4740
Dehumidifying capacity	· '						-
Dehumidifying capacity							
Power cable Section SGx2.5mm²							
Signal cable							
Connecting cable							
Power source N, V, Hz 3N, 380-400V, 50HZ						4G×0.7	'5mm ²
Running Max.Running current A A Cooling 7.5A/9.0A Heating 8.3/9.9A		•				3N 380-40)0\/ 50HZ
Start Current			t				
Class of anti electric shock Class Class						-	-
Max. operating pressure of heat side					Α		
Max. operating pressure of heat side Mpa 2.8 2.8					Δ		
Max. operating pressure of cold side			at side				
Unit model (color)							
Fan	iviax. U		iu siu c		ινιμα		
Fan		OTHE HIDGE (COIDE)	Type v Number				,
Fan motor output power KW 0.09 1750					r/min		
Part		Fan		l wer			
Heat exchanger	<u>+-</u>			Jwei			
Dimension	i i				· ·		
Dimension	ō	Heat exchanger					
Dimension) bc			(1 . AMLL)	-		
Control type (Remote /wired /model) Remote Roise level (H-M-L) dB(A) 51/48/44 Weight (Net / Shipping) kg / kg 59/70	_	Dimension					
Noise level (H-M-L)		Operational towards (Decrease)		(LXWXH)	mm×mm×mm		
Weight (Net / Shipping)			· · · · · · · · · · · · · · · · · · ·		-ID(A)		
Unit model (color)		,			` '		
Compressor			onipping)		kg / kg		
Compressor Oil type		Unit model (color)	Madal / Manufactura				
Compressor Oil charging 1360CC Type SCROLL							
Type SCROLL Protection type Inner thermal protection Starting method Girect start							
Protection type		Compressor					
Starting method Mirect start							
Type × Number Speed Fan Speed Fan motor output power kW 0.06							
Fan Speed r/min 840			•				
Noise level Shipping Refrigerant Type / Charge Gas Charge Gas Charge Gas Charge Charge Gas Charge Cha	.=	Fan			, .		
Noise level Shipping Refrigerant Type / Charge Gas Charge Gas Charge Gas Charge Charge Gas Charge Cha	S						
Noise level Shipping Refrigerant Type / Charge Gas Charge Gas Charge Gas Charge Charge Gas Charge Cha)O.			ower			
Noise level Shipping Refrigerant Type / Charge Gas Charge Gas Charge Gas Charge Charge Gas Charge Cha	Outdo						
Noise level Crankcase heater power Weight (Net / Shipping) Refrigerant Type / Charge g Recharge quantity g/m 75							
Package	õ	Heat exchanger	Type / Diameter			inner groo	ved/φ9.52
Package (LxWxH) mmxmmxmm 1090*410*1350 Refrigerant control method mm/mm Capillary tube Defrosting Automatic Noise level dB(A) 59 crankcase heater power W 40 Weight (Net / Shipping) kg / kg 106/111 Refrigerant Type / Charge g R22/3400 Recharge quantity g/m 75 Pipe Liquid mm p9.52 Gas mm p19.05 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30	ŏ	Heat exchanger	Type / Diameter Row / Fin pitch		mm	inner groo [.] 2/1	ved/φ9.52 .6
Defrosting Automatic	0	<u> </u>	Type / Diameter Row / Fin pitch External		mm	inner groo 2/1 948*34	ved/φ9.52 .6 0*1250
Noise level dB(A) 59	0	Dimension	Type / Diameter Row / Fin pitch External Package		mm mm×mm×mm	inner groo 2/1 948*34 1090*41	ved/φ9.52 .6 0*1250 0*1350
Crankcase heater power W 40 Weight (Net / Shipping) kg / kg 106/111 Refrigerant Type / Charge graph g R22/3400 Recharge quantity g/m 75 Pipe Liquid mm φ9.52 Gas mm φ19.05 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30 30	0	Dimension Refrigerant control me	Type / Diameter Row / Fin pitch External Package		mm mm×mm×mm	inner groo 2/1 948*34 1090*41 Capillar	ved/φ9.52 .6 0*1250 0*1350 y tube
Weight (Net / Shipping) kg / kg 106/111 Refrigerant Type / Charge Recharge quantity g R22/3400 Recharge quantity g/m 75 Pipe Liquid mm φ9.52 Gas mm φ19.05 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30 30	0	Dimension Refrigerant control me Defrosting	Type / Diameter Row / Fin pitch External Package		mm mmxmmxmm mmxmmxmm mm/mm	inner groo 2/1 948*34 1090*41 Capillar Autor	ved/φ9.52 .6 0*1250 0*1350 y tube natic
Refrigerant Type / Charge g R22/3400 Recharge quantity g/m 75 Pipe Liquid mm φ9.52 Gas mm φ19.05 Connecting Method Flared Retween LD & O.D. MAX.Drop m 30	ō	Dimension Refrigerant control me Defrosting Noise level	Type / Diameter Row / Fin pitch External Package thod		mm mm×mm×mm mm×mm×mm mm/mm dB(A)	inner groo 2/1 948*34 1090*41 Capillar Autor	ved/φ9.52 .6 0*1250 0*1350 y tube natic
Recharge quantity g/m 75	Õ	Dimension Refrigerant control mer Defrosting Noise level crankcase heater pow	Type / Diameter Row / Fin pitch External Package thod		mm mmxmmxmm mmxmmxmm mm/mm dB(A) W	inner groo 2/1 948*34 1090*41 Capillar Autor 5:	ved/φ9.52 .6 0*1250 0*1350 y tube natic 9
ON Exercising Pipe Liquid mm φ9.52 Gas mm φ19.05 Connecting Method Flared Between LD & O.D. MAX.Drop m 30 30	Õ	Dimension Refrigerant control mer Defrosting Noise level crankcase heater pow	Type / Diameter Row / Fin pitch External Package thod er Shipping)		mm mmxmmxmm mmxmmxmm mm/mm dB(A) W	inner groo 2/1 948*34 1090*41 Capillar Autor 5: 4:	ved/φ9.52 .6 0*1250 0*1350 y tube natic 9 0
Pipe Gas mm φ19.05 Connecting Method Flared Between LD & O.D. MAX.Drop m 30	ŏ	Dimension Refrigerant control me Defrosting Noise level crankcase heater pow Weight (Net / S	Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge		mm mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g	inner groo 2/1 948*34 1090*41 Capillar Autor 5: 4 106/	ved/φ9.52 .6 0*1250 0*1350 y tube natic 9 0 1111
Retween I D & O D MAX.Drop m 30	ŏ	Dimension Refrigerant control me Defrosting Noise level crankcase heater pow Weight (Net / S	Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge Recharge quantity		mm mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g	inner groo 2/1 948*34 1090*41 Capillar Autor 5: 4 106/ R22/3	ved/φ9.52 .6 0*1250 0*1350 y tube natic 9 0 1111 3400
Retween I D & O D MAX.Drop m 30		Dimension Refrigerant control me Defrosting Noise level crankcase heater pow Weight (Net / \$ Refrigerant	Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge Recharge quantity		mm mmxmmxmm mmxmmxmm mm/mm dB(A) W kg / kg g g/m	inner groo 2/1 948*34 1090*41 Capillar Autor 5: 4 106/ R22/3	ved/φ9.52 .6 0*1250 0*1350 y tube natic 9 0 1111 3400
		Dimension Refrigerant control me Defrosting Noise level crankcase heater pow Weight (Net / \$ Refrigerant	Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge Recharge quantity Liquid		mm mmxmmxmm mm/mm dB(A) W kg / kg g g/m mm	inner groo 2/1 948*34 1090*41 Capillar Autor 5: 44 106/ R22/3	ved/φ9.52 .6 0*1250 0*1350 y tube matic 9 0 1111 3400 5
		Dimension Refrigerant control me Defrosting Noise level crankcase heater pow Weight (Net / S Refrigerant Pipe	Type / Diameter Row / Fin pitch External Package thod er Shipping) Type / Charge Recharge quantity Liquid		mm mmxmmxmm mm/mm dB(A) W kg / kg g g/m mm	inner groo 2/1 948*34 1090*41 Capillar Autor 5: 41 106/ R22/: 7: 99.	ved/φ9.52 .6 0*1250 0*1350 y tube matic 9 0 111 3400 5 52
		Dimension Refrigerant control me Defrosting Noise level crankcase heater pow Weight (Net / \$ Refrigerant Pipe Connecting Method	Type / Diameter Row / Fin pitch External Package thod eer Shipping) Type / Charge Recharge quantity Liquid Gas		mm mmxmmxmm mm/mm dB(A) W kg / kg g g/m mm mm	inner groo 2/1 948*34 1090*41 Capillar Autor 5: 41 106/ R22/3 7: 99.	ved/φ9.52 .6 0*1250 0*1350 y tube matic 9 0 111 3400 5 52 .05



item			Mod	el	HPU-42CH03		
Function					cooling	heating	
Capaci	ity			BTU/h	41000	/	
Capaci	·			kW	12.0	1	
	le heat ratio				70%		
Total power input				W	4700	/	
Max. power input				W	5200	,	
EER o				W/W	2.55	/	
	nidifying capacity			10 - ³ ×m ³ /h		.0	
Power	<u> </u>			section	-	.5mm ²	
Signal				section	JGX2	.DIIIIIG.	
	cting cable			section	4G×0.	75mm ²	
Power				N, V, Hz	2N 200 4	001/ 5017	
	ng /Max.Running			A/A		00V,50HZ 8.5A/9.3A	
						5.5A/9.5A 50	
Start C				Α	_	1 ,	
	of anti electric shock				CLASS I	/	
	breaker	1		Α		20	
	perating pressure of he			Мра	2.8	/	
Max. o	perating pressure of co	ld side		Мра	2.8	/	
	Unit model (color)					I03(WHITE)	
		Type × Number				fugal*1	
	Fan	Speed(H-M-L)		r/min		80/320	
	i aii	Fan motor output po	ower	kW		.1	
		Air-flow(H-M-L)		m³/h	15	660	
≓	Llast avahannan	Type / Diameter		mm	inner gro	ooved/φ7	
5	Heat exchanger	Temp. scope		$^{\circ}$		7	
Indoor unit		External	(LxWxH)	mm×mm×mm	1820× 5	30× 310	
<u>pu</u>	Dimension	Package		mm×mm×mm		625×415	
	Air sending angle		\ _		160		
	Control type (Remote /wired /model)					note	
	Outlet distribution hole dimension			mm		70	
	Noise level (H-M-L)			dB(A)		16/40	
	Weight (Net / Shipping)			kg / kg		/61	
	Unit model (color)	 		kg / kg		103(WHITE)	
	Onit moder (color)	Model / Manufacture				L/XIANDAKIN	
		Oil model				22	
	Compressor	Oil type				DAPHNE SE56P 1400CC	
	Compressor	Oil charging					
		Туре				ROLL	
		Protection type				al protection	
		Starting method				t start	
ij	Fan	Type × Number				al*1	
ı.		Speed		r/min		40	
ļ ģ		Fan motor output po	ower	kW		15	
Outdoor unit		Air-flow(H-M-L)		m³/h		500	
0	Heat exchanger Dimension	Type / Diameter		mm		oved/φ9.52	
		Row / Fin pitch				1.6	
		Temp. scope		${\mathbb C}$	43-	60	
		External	(LxWxH)	mm×mm×mm	1008×4	1008×447×830	
	ווטופווטוווו	Package		mm×mm×mm	1130×4	190×930	
	Refrigerant control method			mm/mm	Capilla	ry tube	
	Volume of Accumulator			L	2	.5	
	Noise level			dB(A)		59	
		(Net / Shipping)		kg / kg		100	
	Refrigerant	Type / Charge		g		/3150	
		Recharge quantity		g/m		'5	
ניז		Liquid		mm		0.52	
PIPING	Pipe	Gas		mm		9.05	
은	Connecting Method					red	
		MAX.Drop	l	m		30	
	Between I.D &O.D	MAX.Piping length				50	
	l	INITAL FILING BEINGEN		m	l 5	JO	



item			Mod	اه	HPU-42I	HIU3
Function			IVIOU	GI	cooling	heating
Capacity				BTU/h	41000	44000
Capaci	·			KW	12.0	14.0
	ole heat ratio				70%	<u> </u>
Total p	ower input			W	4600	5000
Max. power input				W	5400	5800
EER o	r COP			W/W	2.6	2.8
Dehum	nidifying capacity			10 - ³ ×m ³ /h	5.0	
Power	cable			section	5G×2.5r	mm²
Signal				section	4G×0.75	mm ²
	cting cable			section		
	source			N, V, Hz	3N, 380-400	
	ng /Max.Running			A/A	Cooling 7.8A/10.4A	Heating 8.4/10.6A
Start C				Α	50	01.400.1
	of anti electric shock				CLASS I	CLASS I
	breaker			A	20	0.0
	perating pressure of he			Mpa	2.8	2.8 2.8
iviax. 0	perating pressure of co Unit model (color)	Jiu Side		Мра	2.8 HPU-42HI03	
	onit model (color)	Type × Number		-	centrifug	
		Speed(H-M-L)		r/min	540/380	
	Fan	Fan motor output po	l ower	kW	0.15	
		Air-flow(H-M-L)	O AA CI	m³/h	1560	
. =		Type / Diameter		mm	inner groo	
ndoor unit	Heat exchanger	Temp. scope		℃	27	
00		External	(LxWxH)	mm×mm×mm	1820×530	
<u>pu</u>	Dimension	Package		mm×mm×mm	1952×660×	
	Air sending angle				160	160
	<u> </u>	ote /wired /model)			Remote	
	Outlet distribution hole			mm	70	
	Noise level (H-M-I	_)	•	dB(A)	56/46/40	
		eight (Net / Shipping)		kg / kg	52/6	
	Unit model (color)				HPU-42HI03(WHITE)	
		Model / Manufactur	e		JT160GABY1L/XIAN DAKIN	
		Oil model		<u> </u>	R22	
		Oil type			DAPHNE	SE56P
	Compressor	Oil type Oil charging			DAPHNE 14000	SE56P CC
	Compressor	Oil type Oil charging Type			DAPHNE 1400C SCRO	SE56P CC DLL
	Compressor	Oil type Oil charging Type Protection type			DAPHNE 14000 SCRO Inner thermal	SE56P CC DLL protection
	Compressor	Oil type Oil charging Type Protection type Starting method			DAPHNE 14000 SCRO Inner thermal direct s	SE56P CC DLL protection start
	Compressor	Oil type Oil charging Type Protection type Starting method Type × Number		r/min	DAPHNE 14000 SCRO Inner thermal direct s Axial	SE56P CC DLL protection start *2
jit	Compressor	Oil type Oil charging Type Protection type Starting method Type × Number Speed		r/min	DAPHNE 14000 SCRO Inner thermal direct s Axial' 840	SE56P CC DLL protection start *2
r unit		Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po	ower	kW	DAPHNE 14000 SCRO Inner thermal direct s Axial' 840 0.06	SE56P CC PLL protection start *2
door unit		Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L)	ower	kW m³/h	DAPHNE 1400C SCRO Inner thermal direct s Axial' 840 0.06	SE56P CC DLL protection start *2
outdoor unit	Fan	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter	ower	kW	DAPHNE 1400C SCRO Inner thermal direct s Axial' 840 0.06 600C inner groove	SE56P CC DLL protection start *2 CO DC
Outdoor unit		Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch	ower	kW m³/h mm	DAPHNE 1400C SCRO Inner thermal direct s Axial' 840 0.06 600C inner groove	SE56P CC DLL protection start *2 6 0 Ded/φ9.52
Outdoor unit	Fan Heat exchanger	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope		kW m³/h mm	DAPHNE 1400C SCRO Inner thermal direct s Axial* 840 0.06 600C inner groove 2/1.6	SE56P CC DLL protection start *2 6 0 Ded/φ9.52 6
Outdoor unit	Fan	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch	(LxWxH)	kW m³/h mm	DAPHNE 1400C SCRO Inner thermal direct s Axial' 840 0.06 600C inner groove	SE56P CC DLL protection start *2 S. O. ed/φ9.52 S. O. S. O
Outdoor unit	Fan Heat exchanger	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	(LxWxH)	kW m³/h mm °C	DAPHNE 1400C SCRO Inner thermal direct s Axial' 840 0.06 600C inner groove 2/1.6 436	SE56P CC DLL protection start *2
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control me	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm	DAPHNE 1400C SCRO Inner thermal direct s Axial' 840 0.06 600C inner groove 2/1.6 436 1250x96C	SE56P CC DLL protection start *2 6 6 0 ed/φ9.52 6 6 0 0×380 0×440 tube
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control medical perfosting Volume of Accumulate	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm	DAPHNE 1400C SCRO Inner thermal direct s Axial' 840 0.06 600C inner groove 2/1.6 436 1250x96C 1375x108 Capillary Automa	SE56P CC OLL protection start *2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control me Defrosting Volume of Accumulate Noise level	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pr Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package ethod	(LxWxH)	kW m³/h mm °C mm×mm×mm mm×mm×mm mm/mm	DAPHNE 1400C SCRO Inner thermal direct s Axial' 840 0.06 600C inner groove 2/1.6 436 1250×96C 1375×108 Capillary Automs 2.5	SE56P CC DLL protection start *2 6 6 0 ed/φ9.52 6 6 0 0×380 0×440 tube attic
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control medical polyments of Accumulated Noise level Type of Four way valve.	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A)	DAPHNE 1400C SCRO Inner thermal direct s Axial' 8440 0.06 6000 inner groove 2/1.6 436 1250x960 1375x108 Capillary Automa 2.5 59 DHF	SE56P CC DLL protection start *2 6 6 0 ed/φ9.52 6 6 0 0×380 0×440 tube attic
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control medical polyments of Accumulated Noise level Type of Four way valverankcase heater polyments of the polyme	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output pe Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package ethod	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm the dB(A) W	DAPHNE 1400C SCRO Inner thermal direct s Axial' 8440 0.06 6000 inner groove 2/1.6 436 1250×960 1375×108 Capillary Automa 2.5 59 DHF	SE56P CC DLL protection start *2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control me Defrosting Volume of Accumulate Noise level Type of Four way valverankcase heater power	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package ethod or //e wer Shipping)	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A)	DAPHNE 1400C SCRO Inner thermal direct s Axial' 8440 0.06 600C inner groove 2/1.6 436 1250×96C 1375×108 Capillary Automa 2.5 59 DHF 40	SE56P CC OLL protection start *2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Outdoor unit	Fan Heat exchanger Dimension Refrigerant control me Defrosting Volume of Accumulate Noise level Type of Four way valve crankcase heater powel Weight (Net /	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package ethod or //e wer Shipping) Type / Charge	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) W kg / kg g	DAPHNE 1400C SCRO Inner thermal direct s Axial' 8440 0.06 600C inner groove 2/1.6 436 1250×96C 1375×108 Capillary Automa 2.5 59 DHF 40 101/1	SE56P CC OLL protection start *2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Fan Heat exchanger Dimension Refrigerant control me Defrosting Volume of Accumulate Noise level Type of Four way valverankcase heater power	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package ethod or re wer Shipping) Type / Charge Recharge quantity	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) W kg / kg g g/m	DAPHNE 1400C SCRO Inner thermal direct s Axial' 8440 0.06 600C inner groove 2/1.6 436 1250×96C 1375×108 Capillary Automa 2.5 59 DHF 40 101/1 R22/35	SE56P CC OLL protection start *2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Fan Heat exchanger Dimension Refrigerant control me Defrosting Volume of Accumulate Noise level Type of Four way valve crankcase heater power Weight (Net / Refrigerant	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package ethod or //e //e //e //e //e //e //e //e //e /	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm dB(A) W kg / kg g g/m mm	DAPHNE 1400C SCRO Inner thermal direct s Axial' 8440 0.06 600C inner groove 2/1.6 436 1250×96C 1375×108 Capillary Automa 2.5 59 DHF 40 101/1 R22/35 75	SE56P CC DLL protection start *2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Fan Heat exchanger Dimension Refrigerant control me Defrosting Volume of Accumulate Noise level Type of Four way valverankcase heater pow Weight (Net / Refrigerant Pipe	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package ethod or re wer Shipping) Type / Charge Recharge quantity	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm mm/mm L dB(A) W kg / kg g g/m	DAPHNE 1400C SCRO Inner thermal direct s Axial' 8440 0.06 6000 inner groove 2/1.6 436 1250×960 1375×108 Capillary Automa 2.5 59 DHF 40 101/1 R22/35 75 φ9.55	SE56P CC DLL protection start *2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PIPING Outdoor unit	Fan Heat exchanger Dimension Refrigerant control me Defrosting Volume of Accumulate Noise level Type of Four way valve crankcase heater power Weight (Net / Refrigerant	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package ethod or re wer Shipping) Type / Charge Recharge quantity Liquid Gas	(LxWxH)	kW m³/h mm °C mmxmmxmm mm/mm L dB(A) W kg / kg g g/m mm mm	DAPHNE 1400C SCRO Inner thermal direct s Axial' 8440 0.06 6000 inner groove 2/1.6 436 1250×960 1375×108 Capillary Automa 2.5 59 DHF 40 101/1: R22/35 75 φ9.5; φ19.0 Flare	SE56P CC DLL protection start *2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Fan Heat exchanger Dimension Refrigerant control me Defrosting Volume of Accumulate Noise level Type of Four way valverankcase heater pow Weight (Net / Refrigerant Pipe	Oil type Oil charging Type Protection type Starting method Type × Number Speed Fan motor output po Air-flow(H-M-L) Type / Diameter Row / Fin pitch Temp. scope External Package ethod or //e //e //e //e //e //e //e //e //e /	(LxWxH)	kW m³/h mm °C mmxmmxmm mmxmmxmm dB(A) W kg / kg g g/m mm	DAPHNE 1400C SCRO Inner thermal direct s Axial' 8440 0.06 6000 inner groove 2/1.6 436 1250×960 1375×108 Capillary Automa 2.5 59 DHF 40 101/1 R22/35 75 φ9.55	SE56P CC DLL protection start *2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



item Mode			el	AP96NACAEA		
Functi	on				cooling	heating
Capac	ity			BTU/h	92000	96000
Capac	ity			kW	27000	28000
Sensib	ole heat ratio				75%	/
Total power input				W	10000	9000
Max. power input				W	13000	13000
EER o	r COP			W/W	2.70	3.11
Dehun	nidifying capacity			10 - 3×m3/h	1	0
Power	source			N, V, Hz	1, 220-	230, 50
Runnii	ng /Max.Running currer	nt		A/A	cooling 18/22.8	heating16.5/22.8
Start C	Current			Α	80A	
	Unit model (color)				AP96NACAEA	
		Type x Number			Centrifigal×2	
	Fan	Speed(H-M-L)		r/min	490±50/300)±40/260±30
		Fan motor output power		W	120W*2	
		Air-flow(H-M-L)		m³/h	4800	
≔	Heat exchanger	Type / Diameter		mm	TP2M/Ф9.52	
5		Total Area		m²	0.	41
Indoor unit		Temp. scope		${\mathbb C}$	2-7	
hu	Dimension	External	(LxWxH)	mm×mm×mm	1200*320*1850	
		Package	(LxWxH)	mm×mm×mm	1360*510*2030	
	Drainage pipe (material , I.D./O.D.)			mm	PVC 18/20	
	Control type (Remote /wired)				Remote	
	Electricity Heater			kW	0	
	Noise level (H-M-L)			dB(A)	58/-/51	
	Weight (Net / S	Shipping)		kg / kg	102	/115

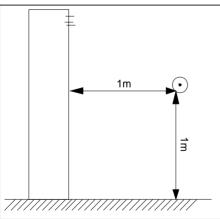
Norminal condition: indoor temperature (cooling): 27°CDB/19°CWB, indoor temperature (heating): 20°CDB Outdoor temperature(cooling): 35°CDB/24°CWB, outdoor temperature(heating): 7°CDB/6°CWB

The noise level will be measured in the third octave band limited values, using a Real Time Analyser calibrated sound intensity meter. It is a sound pressure noise level. The detailed method please refer to the following information:

Installation state: the unit should be placed on the flat floor or be mounted in horizontal direction.

Testing method:

standing-on-floor unit: If the unit cooling capacity is over 28000W, the noise level should be measured at the front, left, right directions respectively.



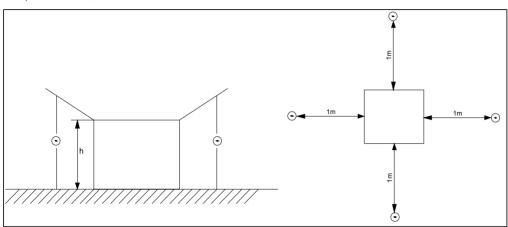


outdoor unit:

1.air outlet from side: the noise level is the average sound pressure level measured from front, left, right directions.

2.air outlet from top: the noise level is the average sound pressure level measured from front, back, left, right directions. measured point:

H (height to the ground) = (h (unit height) + 1m) /2 and, it is 1m to each side.

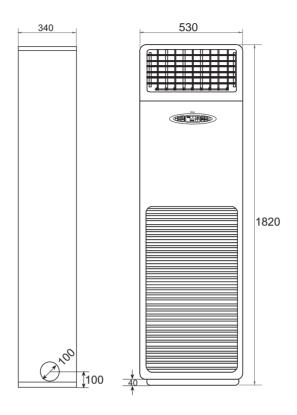


Note: ⊙ is the real time analyser position

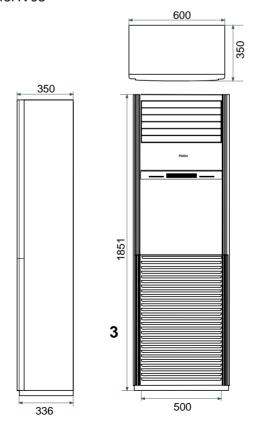


3. Dimension

HPU-42CF03, HPU-42HF03, HPU-42CH03, HPU-42HI03

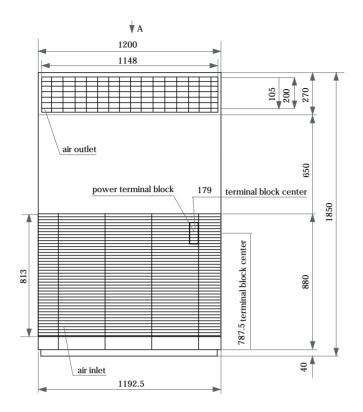


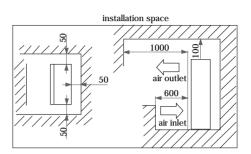
HPU-42CV03, HPU-42HV03, HPU-48HV03

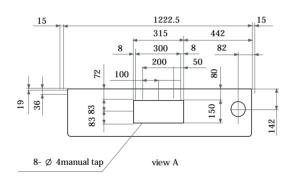


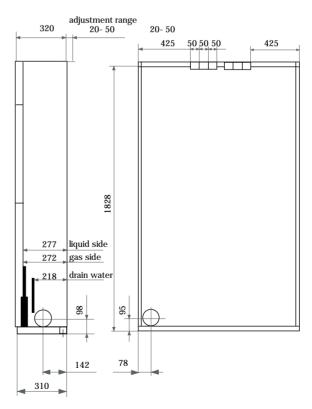


AP96NACAEA







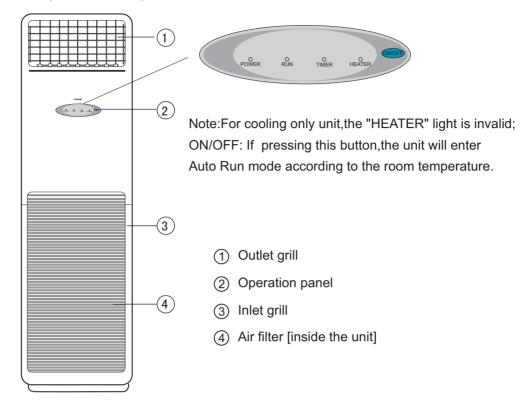


(mm)

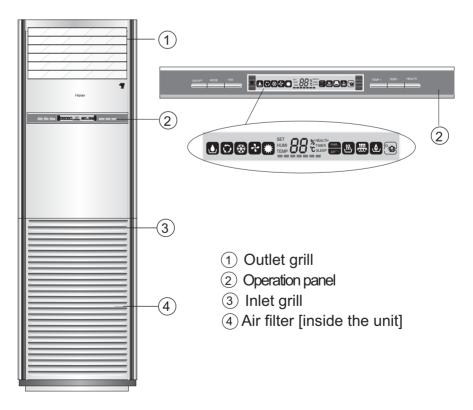


4. Part name

HPU-42CF03, HPU-42HF03, HPU-42CH03, HPU-42HI03

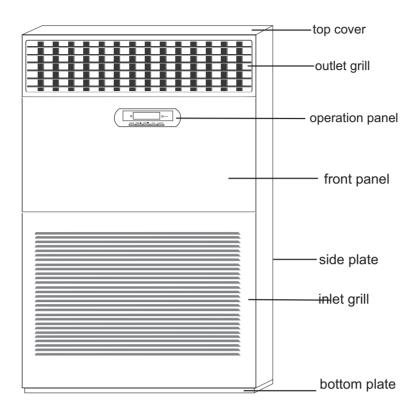


HPU-42CV03, HPU-42HV03, HPU-48HV03





AP96NACAEA





5. Installation

Tools necessary

- 1. Screw driver
- 2. Hacksaw
- 3. 70mm dia. hole core drill
- 4. Spanner (dia. 17, 27mm)
- 5. Spanner (14, 17, 27mm)
- 6. Pipe cutter
- 7. Flaring tool
- 8. Knife
- 9. Nipper
- 10. Gas leakage detector or soap water
- 11. Measuring tape
- 12. Reamer
- 13. Refrigerant oil

Selection of installation place

Place where it is easy to route drainage pipe and outdoor piping.

Place away from heat source and with less direct sunlight.

Place where cool and warm air could be delivered evenly to every corner of the room.

Place near power supply socket. Leave enough space around the unit (refer to installation drawings).

Display of whole unit

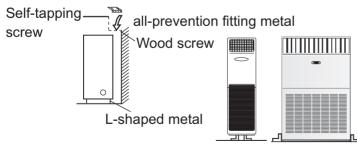
- Try to bring the packed unit to the installation place.
- When it is necessary to unpack the unit, be careful not to damage the unit. Wrap it with nylon etc.
- After unpacking, be sure to place the unit with the front side to be up.

Note: When delivering, don't hold plastic parts such as inlet or outlet grill etc.

Fixing of the unit

For HPU-42CF03, HPU-42HF03, HPU-42CH03, HPU-42HI03 and AP96NACAEA

To prevent it from fall off, please fix the unit with fall-prevention fitting at wall and L-shaped metal at floor



Please install the whole unit horizontally, with a slop of 1 degree at front and rear, left and right.

Delivery

Facing up

For HPU-42CV03, HPU-42HV03 and HPU-48HV03

Position of the wall hole

 Wall hole should be decided according to installtion place and piping direction. (refer to installation drawings)

Making a hole

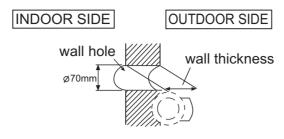
- Drill a hole of 70mm dia. with a little slope towards outside.
- Install piping hole cover and seal it with putty after installation.

Standard accessories

Following parts shall be field supplied

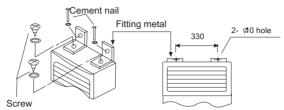
Mark	Mark Parts name			
A	Adhesive tape			
B	Pipe clip			
©	Connecting hose			
(D)	Insulation material			
E	Putty			
F	F Drain hose			



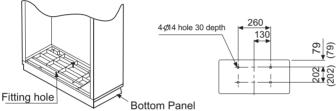


(Cross section of wall hole)

With the unit set up vertically, fix the fitting metal to the unit with screws, then fix the fitting metal to the wall with cement nail and washer, as shown below:



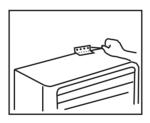
Moreover, if want to fix the unit more firmly, you should fix the bottom panel to the ground with concrete bolts, as shown below:

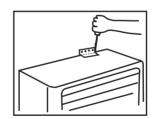


Installation of anti-fall plate:

Fix the anti-fall plate to the wall with screws so that there is no clearance between them.

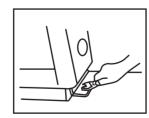
With the unit set up vertically, fix the anti-fall plate to the unit with screws while making an adjustment at the long portion of the hole so that there is no clearance between the upper surface and the anti-fall plate.

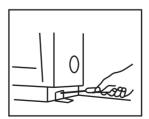




Installation of L-shaped metal

Fix to the unit with screws so that there is no clearance between the anti-fall plate and the unit. After confirming that the unit has been set up vertically to the floor, fix it to the floor with bolt.





Piping connection

1. Connecting method

Apply refrigerant oil at half union and flare nut.

To bend a pipe, give the roundness as large as possible not to crash the pipe.

When connecting pipe, hold the pipe centre to centre then screw nut on by hand, refer to Fig.

Be careful not to let sundries, such as sands enter the pipe.

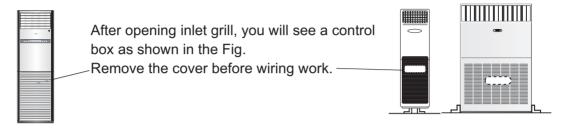




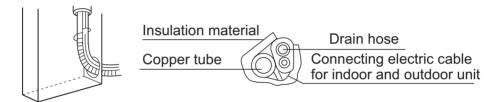
Forced fastening without centering may				
damage the threads and cause a gas leakage.				
Pipe dia	Fastening torque			

Pipe dia	Fastening torque
Liquid pipe 9.52mm(3/8")	29.4N·m
Gas pipe 15.88mm(5/8")	98.0N·m
Gas pipe 19.05mm(3/4")	117.7N·m

2. Piping connection of indoor unit
Arrangement of piping and drainage pipe



Cut away, with a hammer or a saw, the lid for piping according to piping direction.



According to the piping method, connect the piping on indoor unit with union of connecting pipe.

Arrange the piping as per the wall hole and bind drain hose connecting electric cable and piping together with polyethylene tape.

Insert the bound piping connecting electric cable and drain hose through wall hole to connect with outdoor unit. Arrangement of drain hose

- Drain hose shall be placed in under place.
- There should be a slope when arrange drain hose. Avoid up and down waves in drain hose.



If humidity is high, drain pipe(especially in room and indoor unit) must be covered with insulation material.

3. Piping connection of outdoor unit

Connect the connecting pipe and inlet and outlet liquid pipe according to the piping method.

4. Purging method

Discharge the air out of the indoor unit and the refrigerant pipe by vacuumizing

- (1) Fasten all the nuts of the indoor and outdoor pipes to make these parts out of leakage.
- (2) Under the condition of the complete close of the indoor and outdoor valve center (both liquid and gas side), dismount the repair valve cap. Vacuumizing through the charge mouth of the repair valve.
- (3) After vacuumizing fasten the repair valve, and dismount the cap of the big and small stop valve, then loosen the stop valve center completely and fasten the big and small stop valve.



5.Extra charging amount of the refrigerant

When piping is longer than 5 m, charge additional refrigerant specified in this list.

Pipe length	5m	10m	15m	20m	25m	30m
Refrigerant charge (g)		325	650	975	1300	1625

Electric wiring

Note:

Electric wiring must be done by qualified person.

The power cable is self-provided.

The power supply connects from the outdoor unit.

Wiring of indoor unit

Insert the cable from outside the wall hole where piping already exist.

Pull it out from front.

Loosen terminal screws and insert cable end fully into terminal block, then tighten it.

Pull the cable gently to make sure it is tight.

Replace cover after wiring.

Wiring of outdoor unit

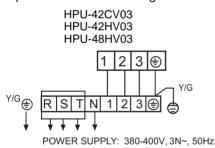
Insert the cable from inside the wall hole where piping already exists.

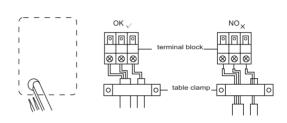
Pull it out from front.

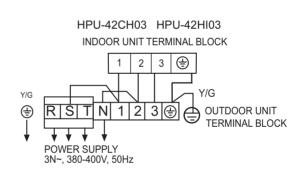
Loose terminal screw and insert cable end fully into terminal block, then tighten it.

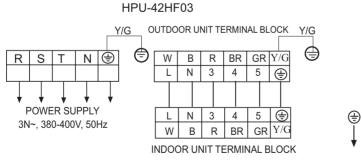
Pull the cable gently to make sure it is tight.

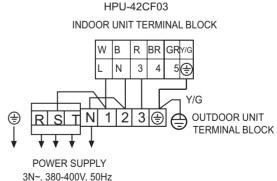
Replace cover after wiring.











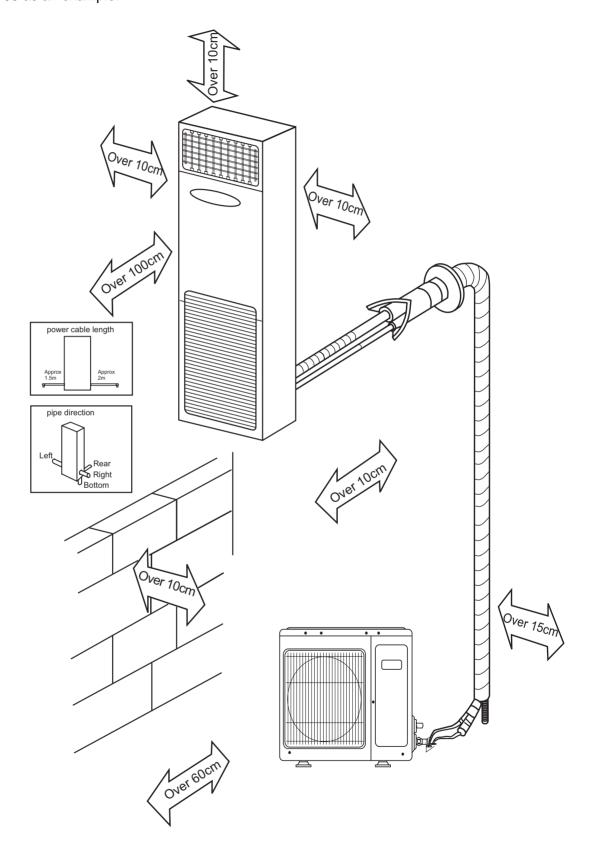
Note:

- When connecting indoor and outdoor wire, check the number on indoor and outdoor terminal blocks. Terminals of same number and same color shall be connected by the same wire.
- Incorrect wiring may damage air conditioner's controller or cause operation failure.



Indoor & outdoor unit connection

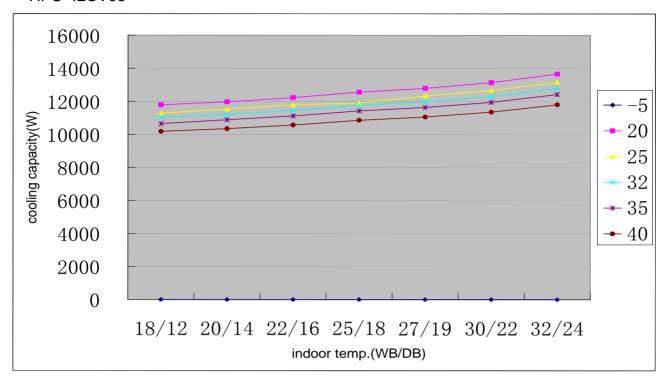
Take HPU-42CF03 as an example.

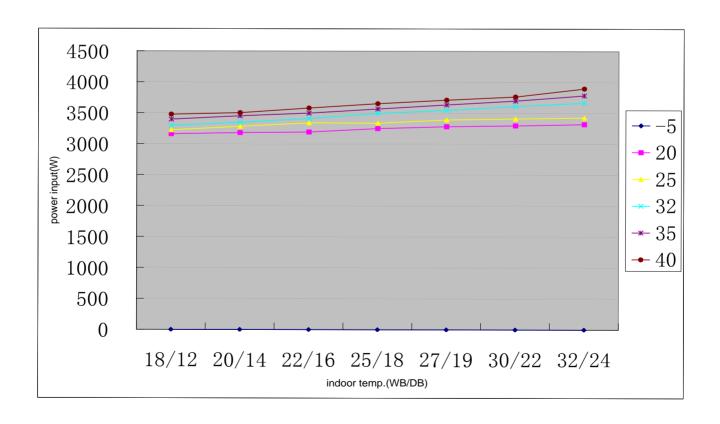




6. Performance Curves

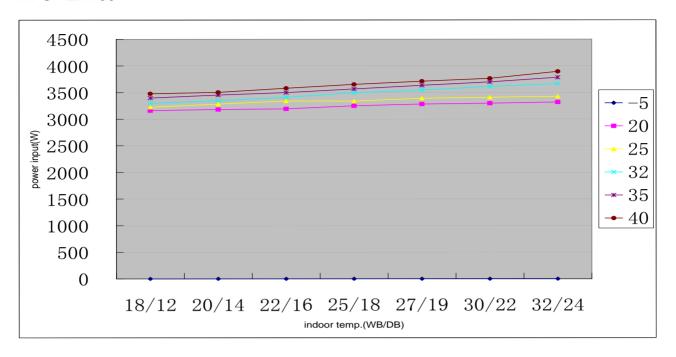
HPU-42CV03

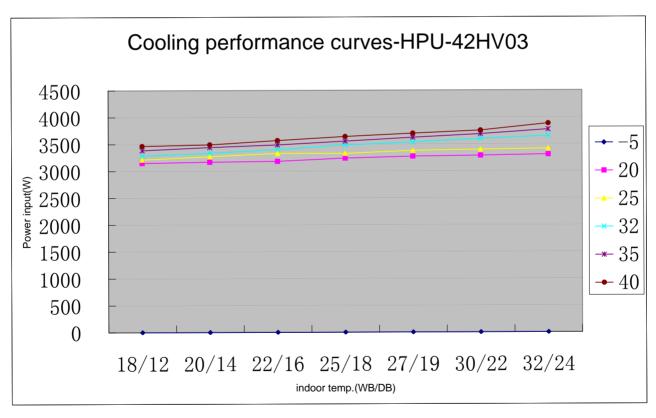




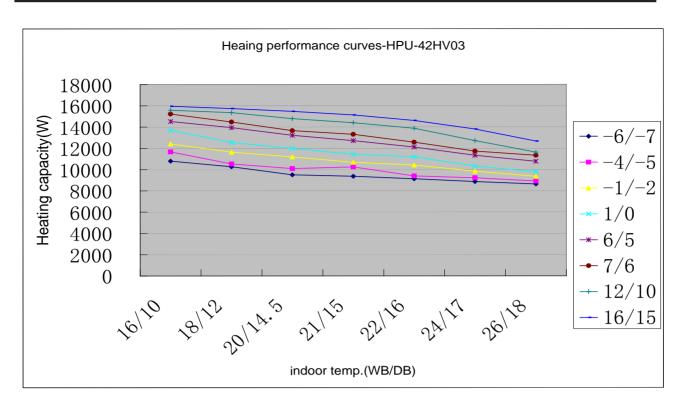


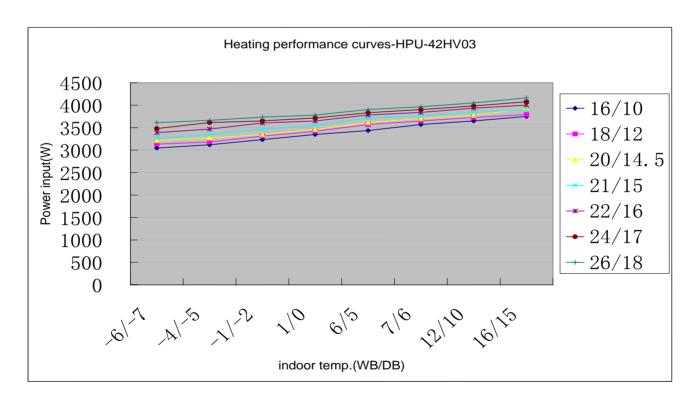
HPU-42HV03













Part 3 Outdoor Units

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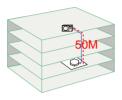
1. Features

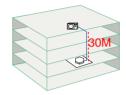
Fixed frequency unit

T3 climate for HDU-50HT03/H

Long distribution pipe and high drop

The unit can realize long distribution pipe and high drop, the detailed information please refer to the specification, consequently, the installation can be more free, and can meet various need of the customer.





Quiet operation

Adopting optimum designed blower and new designed insulation material amoug the pipe or out of the compresspr, outdoor unit with well-known brand compressor, reducing the operation noise. For some unit, the electric control system can adjust the noise by fixing the frequency.

Optional safety devices and much more precision control device

- a. Ambient **temperature sensor**, coil temperature sensor and compressor temperature make the temperature control and defrosting control more precise.
- b. **High/low pressure switch** can feel the discharging pipe pressure and suction pipe pressure on time and precisely. If the pressure is too high or too low, it will stop the compressor to prevent it being damaged for the sake of pressure.
- c. **3 minutes delay protection** for the compressor. The device can protect the compressor from some damages and make the compressor have a long life.



Auto checking malfunction

Failure codes displayed by LED or controllers are so detailed for us to find the fail place more quickly, and can judge the failure content easily





2. Specifications

item				Model	AU96NATAEA	
Function					cooling	heating
Capacity				BTU/h	92000	96000
Capacity				W	27000	28000
	le heat ratio				75%	1
	ower input			W	10000	9000
	ower input			W	13000	13000
EER or				W/W	2.70	3.11
	idifying capacity			10 - ³ ×m ³ /h	10	
Power	cable				5G 6.0mm2	
Signal	cable			section	4G 2.0mm2	
Connec	cting cable			section	4G 2.0HIII2	
Power	source			N, V, Hz	3, 380-400, 50	
Runnir	ng /Max.Running			A/A	cooling 18/22.8 heating16.5/22.	
Start C	urrent			Α	80A	
Circuit	breaker			Α	50A	
Max. or	perating pressure	of heat side)	Мра	3.0	
	perating pressure			Mpa	3.0	
	Unit model (colo				AU96NATAE	A (WHITE)
	,	Model / Manufacture			JT300D-Y1L×1	
		Oil type			MINERAL	
		Oil charging		cm ³	3000	
	Compressor	Туре			scroll	
		Protection type		+	UP28TY081-400	
		Starting method		+	direct startup	
		Type × Number		+	Axial × 1	
				r/min	850±50/720±50	
. =	Fan	Speed		W	600	
5		Fan motor output power				
Outdoor unit		Air-flow(H-M-L)		m³/h	10000/-/6000 TP2M / 9.52x0.35	
ğ	llast soobsassas	Type / Diameter		mm	about 1.8	
ō	Heat exchanger	•		m²		
		Temp. scop		$^{\circ}$	cooling: 43~60 / heating: 6~7	
	Dimension	External	(LxWxH)	mm×mm×mm		60*1700
		Package	(LxWxH)	mm×mm×mm		
	Refrigerant conti	rol method		mm/mm	Capillary tube	
	Defrosting				Automatic	
	Volume of Accur	olume of Accumulator		L	NO	
	Noise level			dB(A)	≤65	
	crankcase heate	r power		W	40*2	
	Weight (Net / Shipping)		kg / kg	161/185		
	Refrigerant Pipe	Type / Charge		g	R22/8500	
		Recharge quantity		g/m	115	
<u>១</u>		Liquid	•	mm	12	2.7
PIPING		Gas		mm		.58
	Connecting Meth				flared for liquid pipe, joint for gas pipe	
	· ·	MAY Dran		m	30	
	Between I.D &O	MAX.Piping length		m	50	
		IMAAT IPING ISIIGUI			JU	

Norminal condition: indoor temperature (cooling): 27℃DB/19℃WB, indoor temperature (heating): 20℃DB Outdoor temperature(cooling): 35℃DB/24℃WB, outdoor temperature(heating): 7℃DB/6℃WB

The noise level will be measured in the third octave band limited values, using a Real Time Analyser calibrated sound intensity meter. It is a sound pressure noise level. The detailed method please refer to the following information:



The specifications for other outdoor units please refer to the corresponding indoor unit specification.

Installation state: the unit should be placed on the flat floor or be mounted in horizontal direction.

Testing method:

outdoor unit:

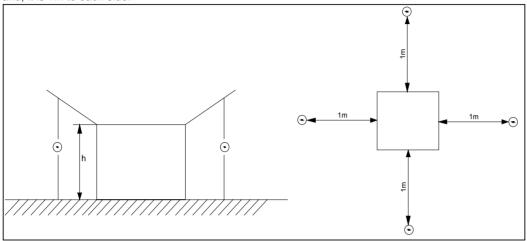
1.air outlet from side: the noise level is the average sound pressure level measured from front, left, right directions.

2.air outlet from top: the noise level is the average sound pressure level measured from front, back, left, right directions.

measured point:

H (height to the ground) = (h (unit height) + 1m)/2

and, it is 1m to each side.



Note: ⊙ is the real time analyser position

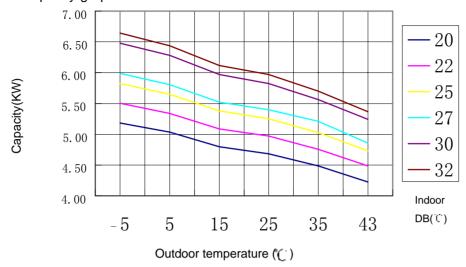


3. Curves

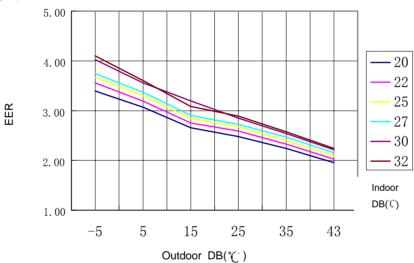
3.1 Performance curves

3.1.1 For 18 model

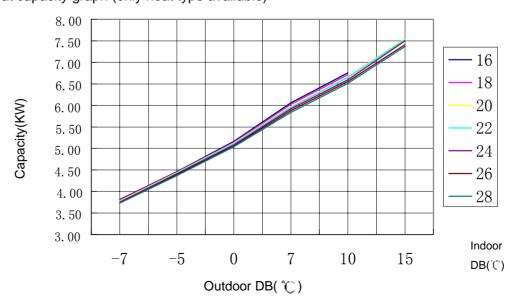
a. Cool capacity graph



b. EER graph

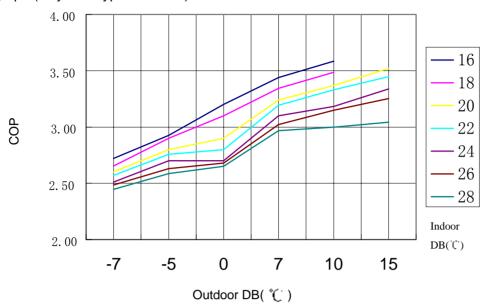


c. Heat capacity graph (only heat type available)

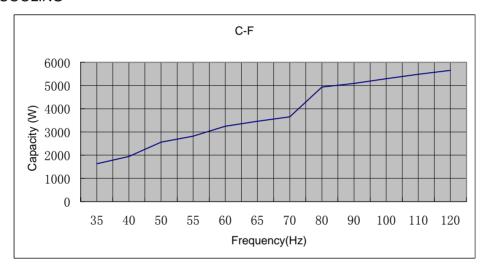




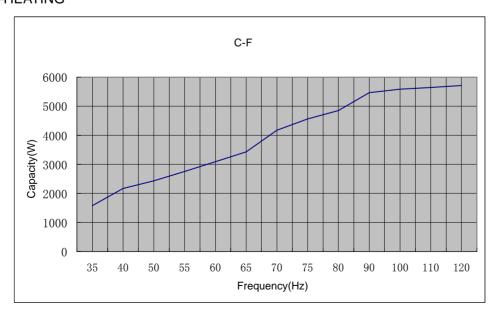
d. COP graph (only heat type available)



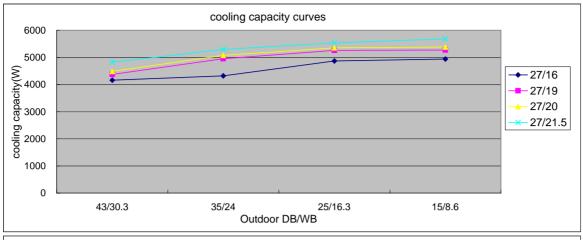
F-C curve-COOLING

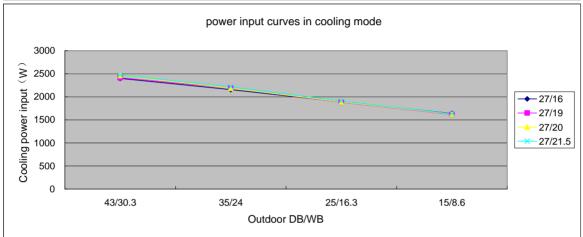


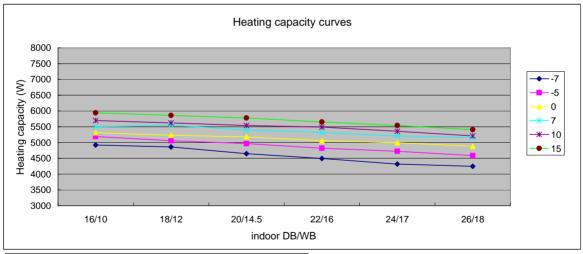
F-C curve -HEATING

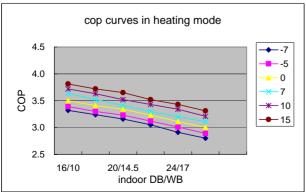












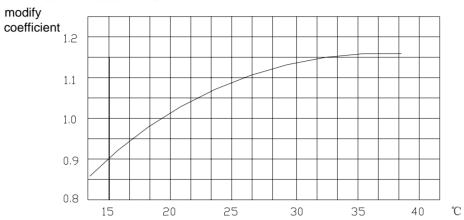


3.1.2 For 28 model

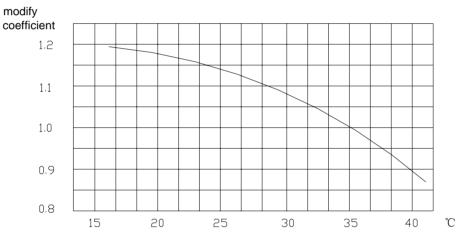
1. Cooling

When air conditioner operate on cooling status, the indoor air humid ball and outdoor air dry ball which means humid degree of indoor and dry degree of outdoor unit make important mean on cooling capacity.

1) Chart of humid ball of indoor unit air



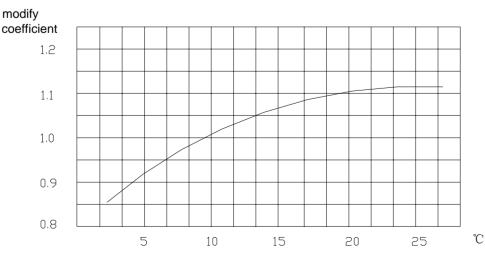
2) Chart of dry ball of outdoor unit air



2. Heating

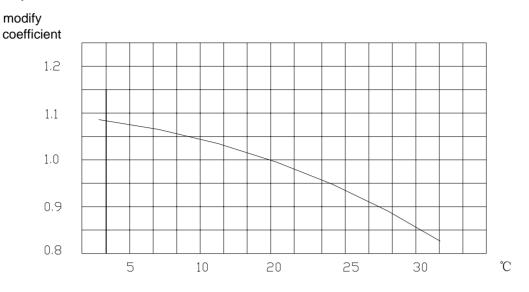
When air conditioner operate on heating status, the outdoor air humid ball and indoor air dry ball which means humid degree of outdoor and dry degree of indoor unit also make important mean on heating capacity.

1)Chart of humid ball of outdoor unit air

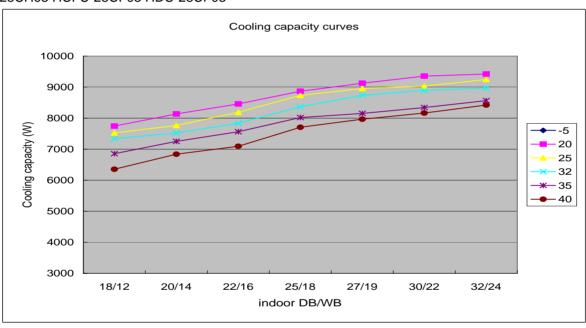


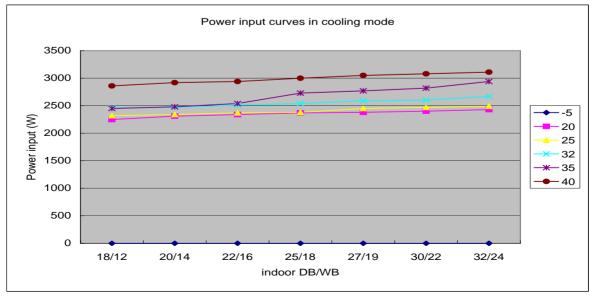


2)Chart of dry ball of indoor unit air



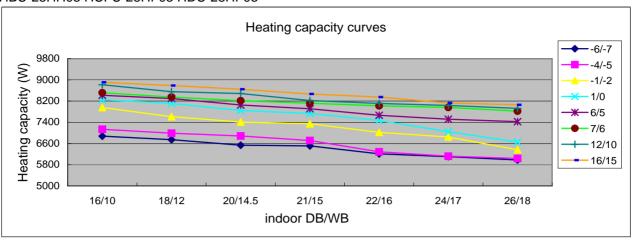
HBU-28CH03 HCFU-28CF03 HDU-28CF03

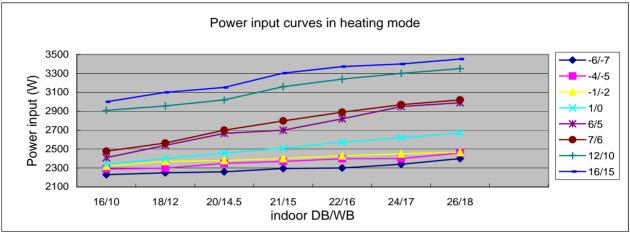


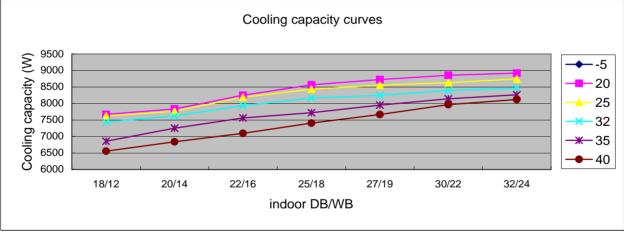


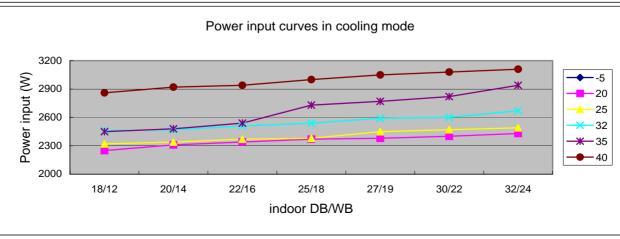


HBU-28HH03 HCFU-28HF03 HDU-28HF03





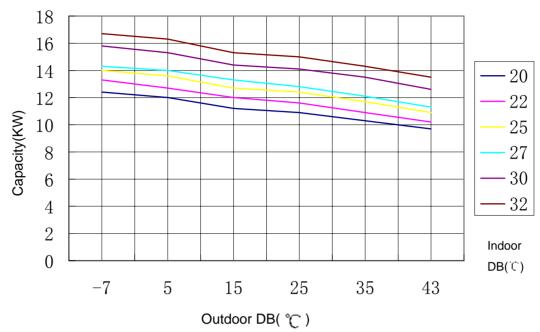




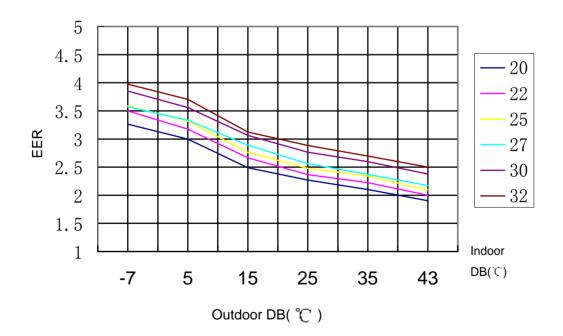


3.1.3 For 42 model

For cassette type a. Cooling capacity graph



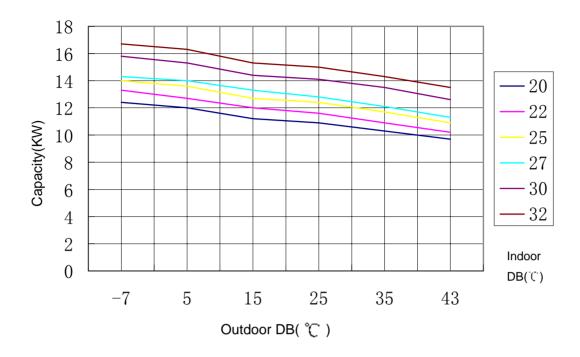
b. EER graph



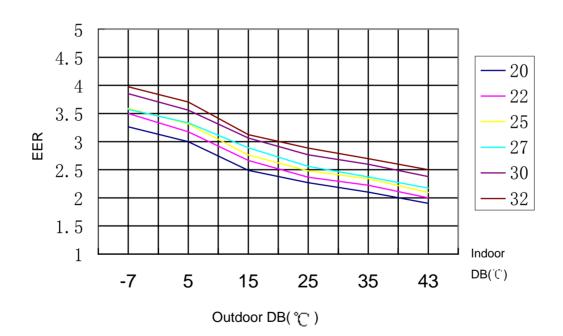


For convertible type

Cool capacity graph



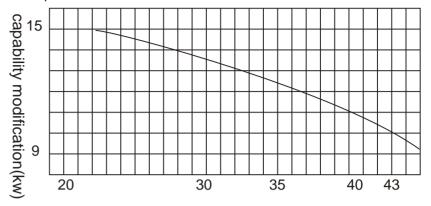
EER graph





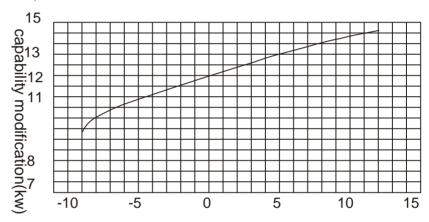
Capability modification curves

Alteration curve of outdoor air dry-bulb temperature



Outdoor air dry-bulb temperature(°C)

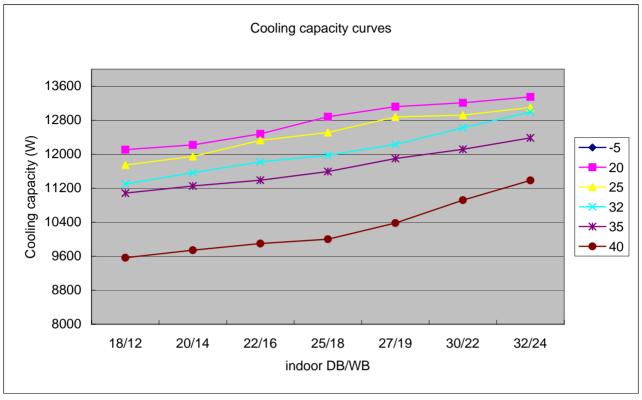
Alteration curve of outdoor air wet-bulb temperature

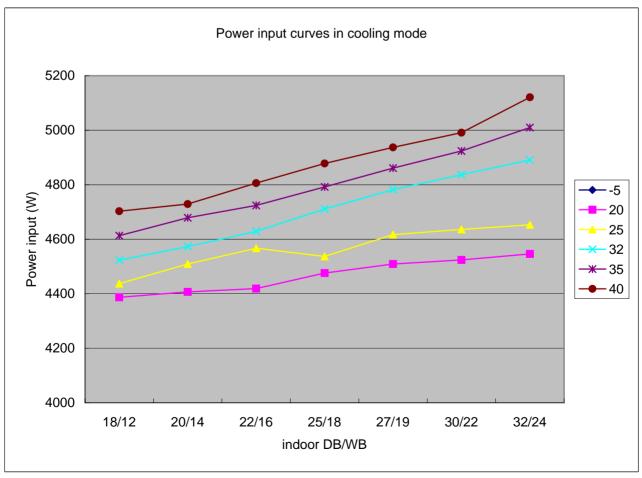




For duct type

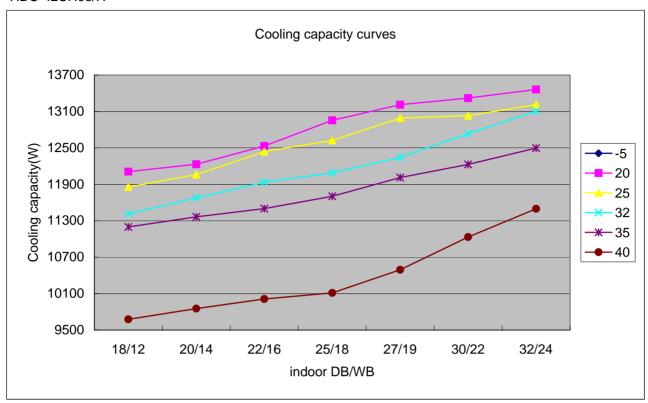
HDU-42CF03/H

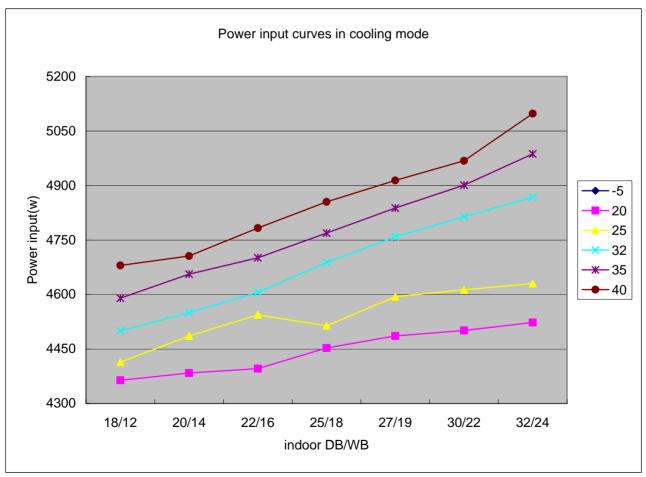






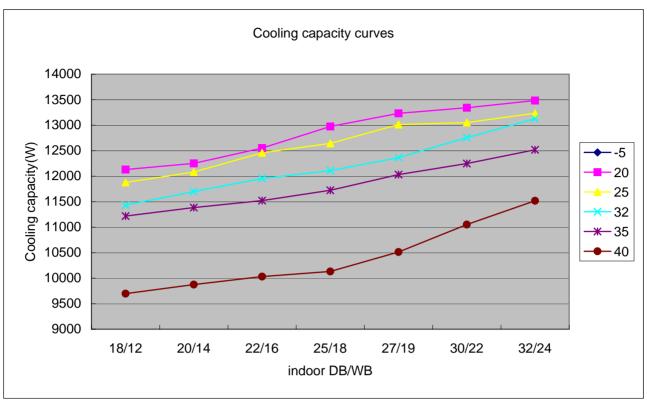
HDU-42CH03/H

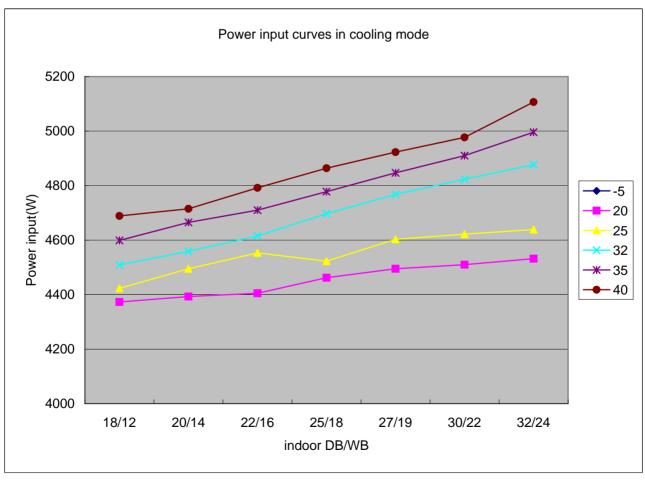






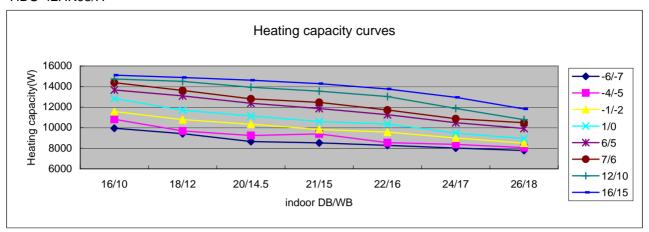
HDU-42CI03/H

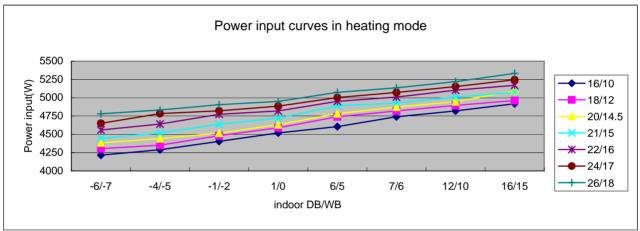


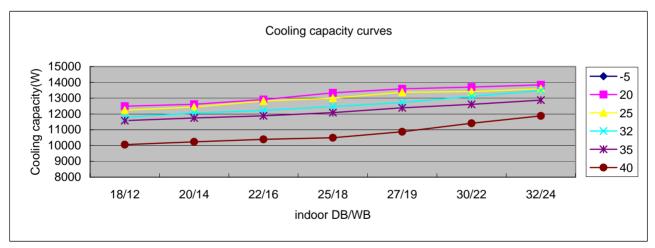


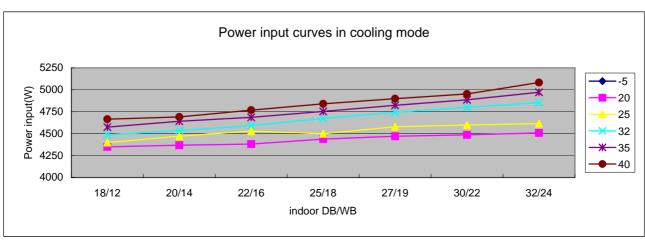


HDU-42HK03/H



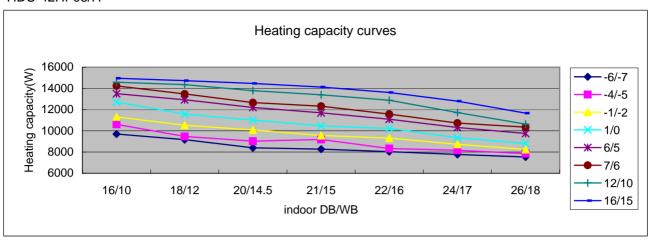


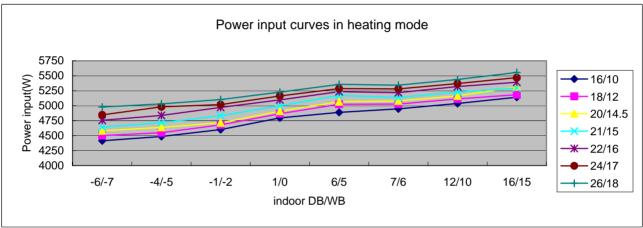


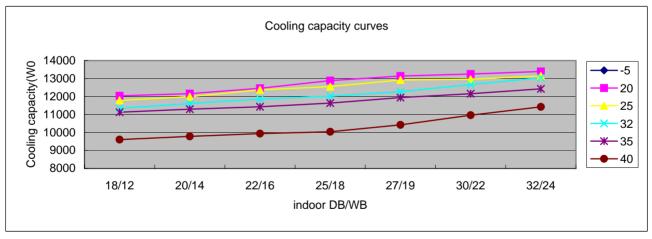


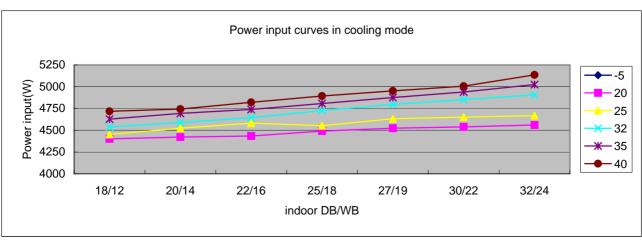


HDU-42HF03/H



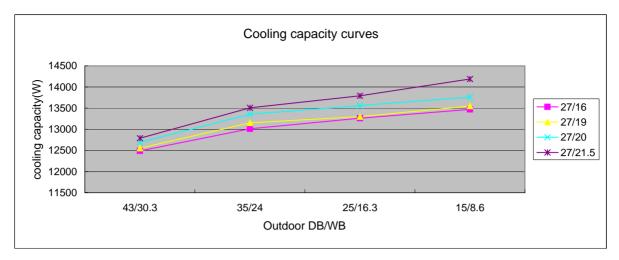


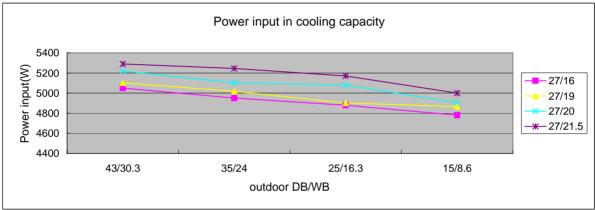


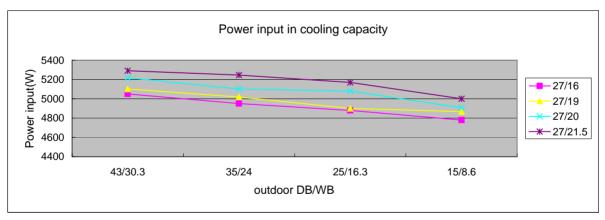


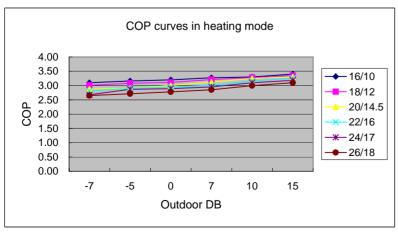


HDU-50HT03/H



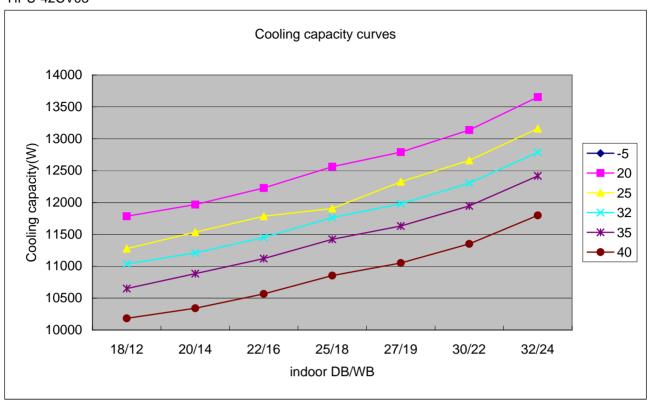


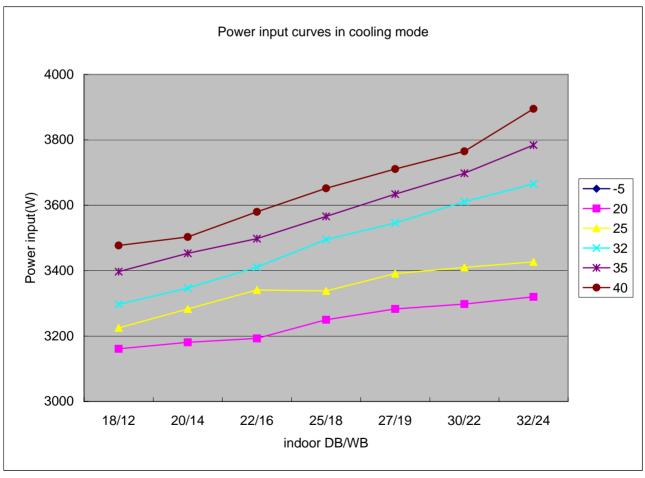






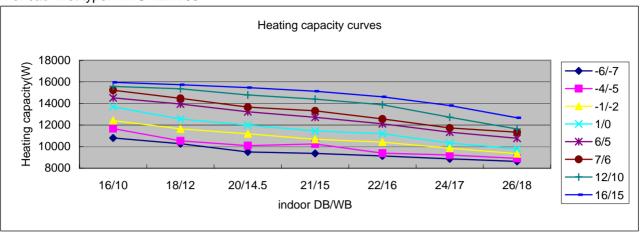
HPU-42CV03

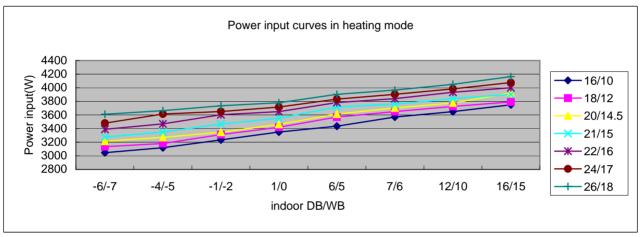


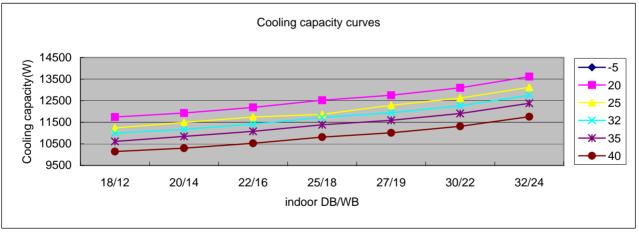


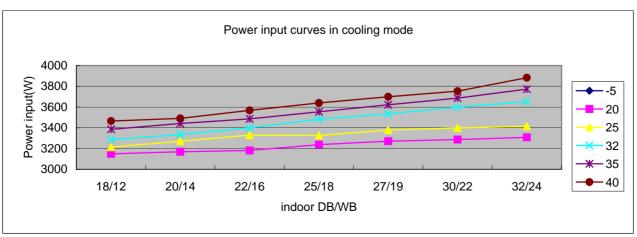


For cab inet type: HPU-42HV03



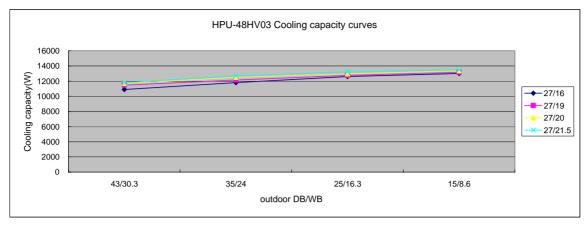


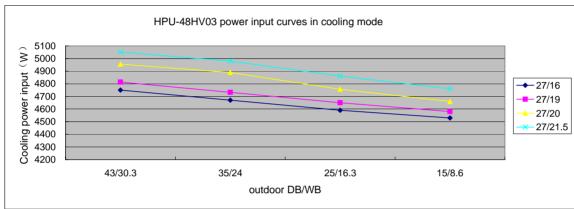


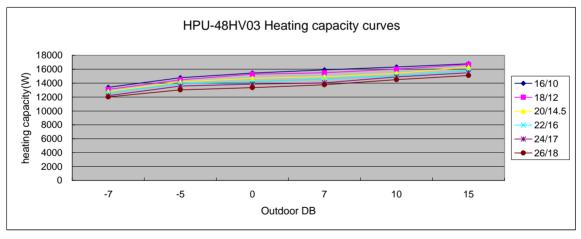


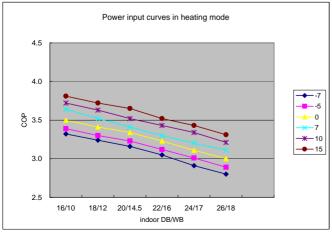


HPU-48HV03



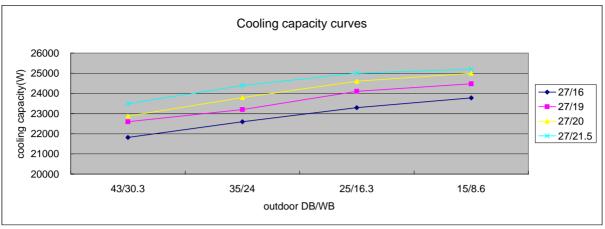


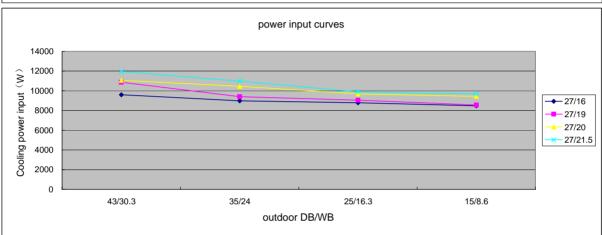


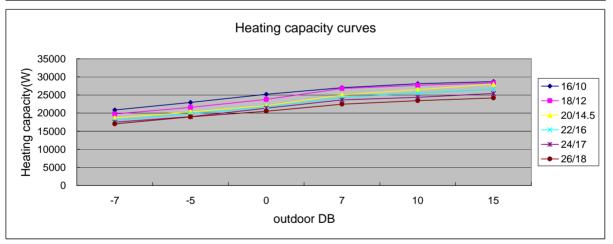


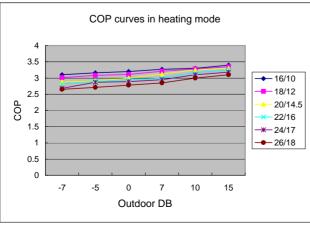


For 96 Models



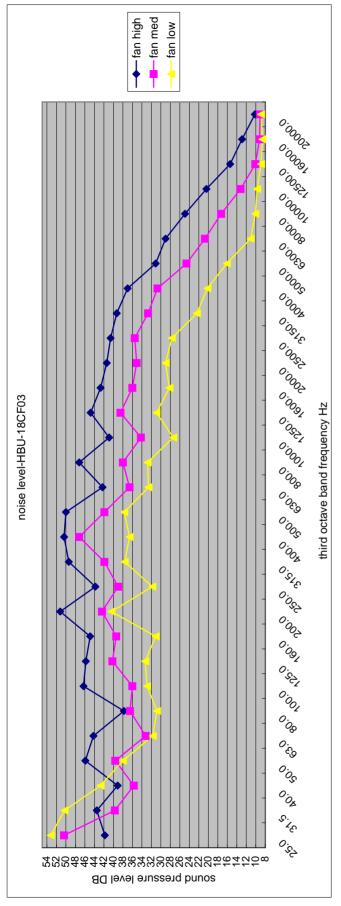


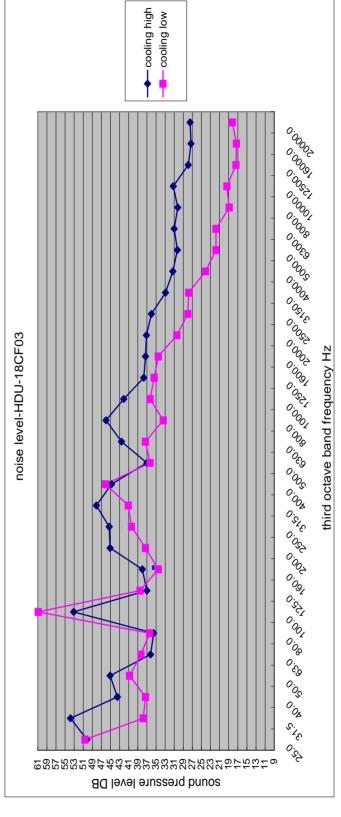




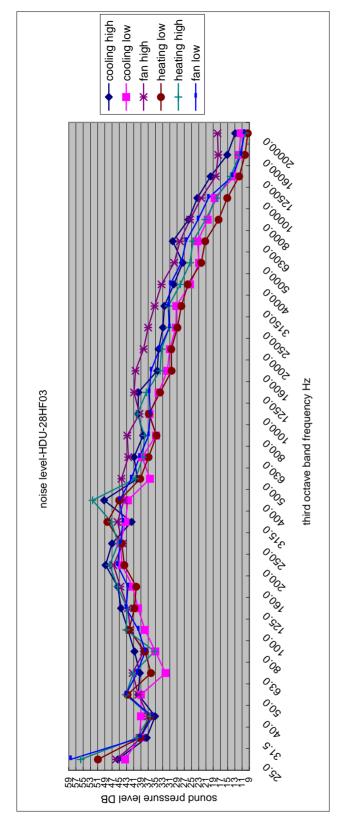


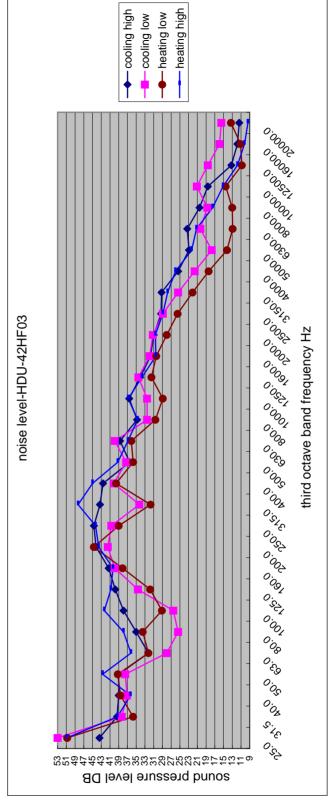
3.2 Noise level



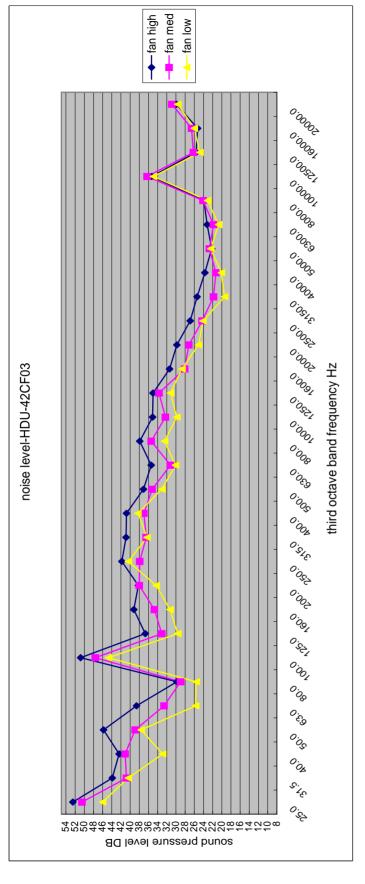


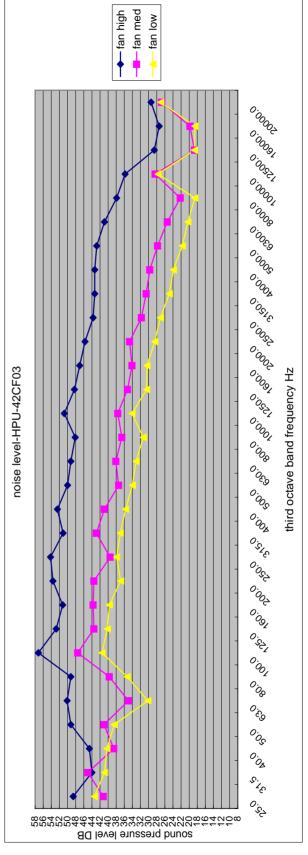




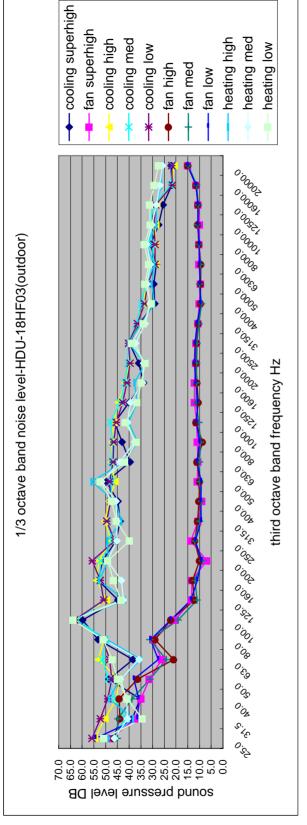


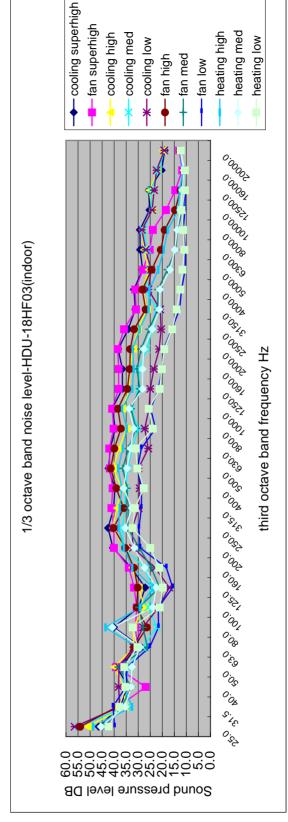




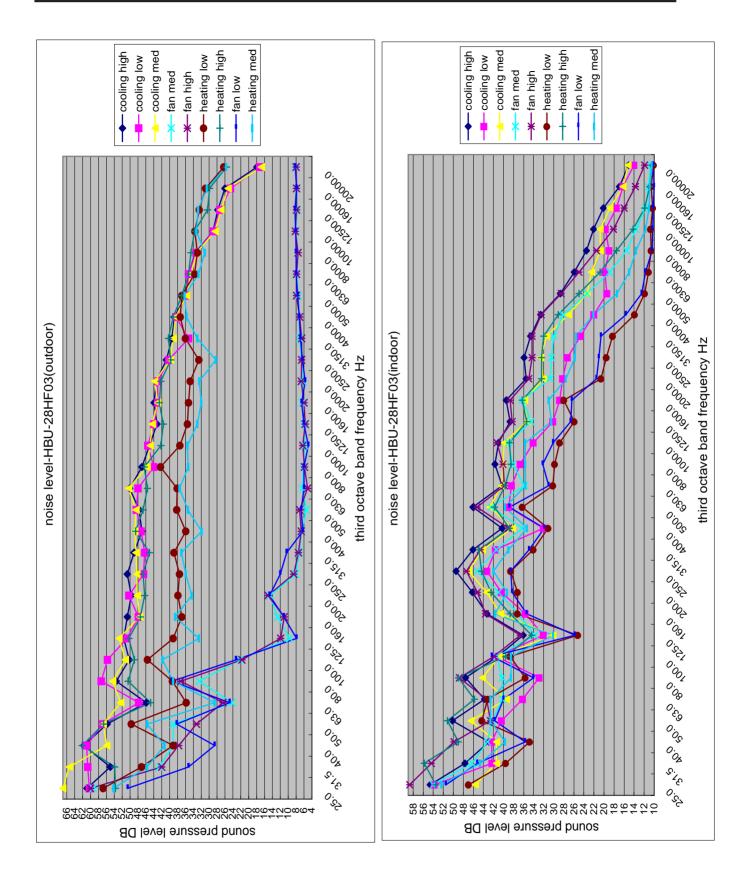




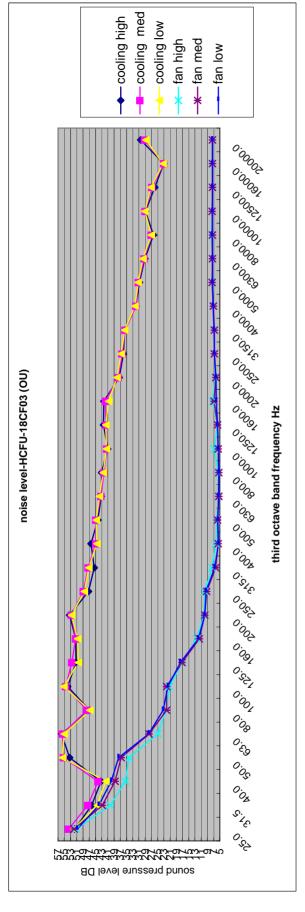


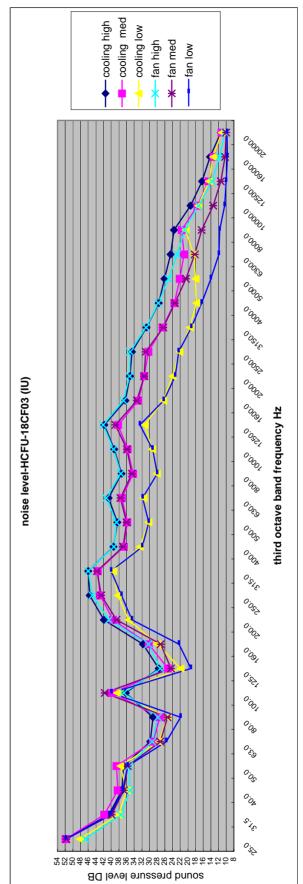




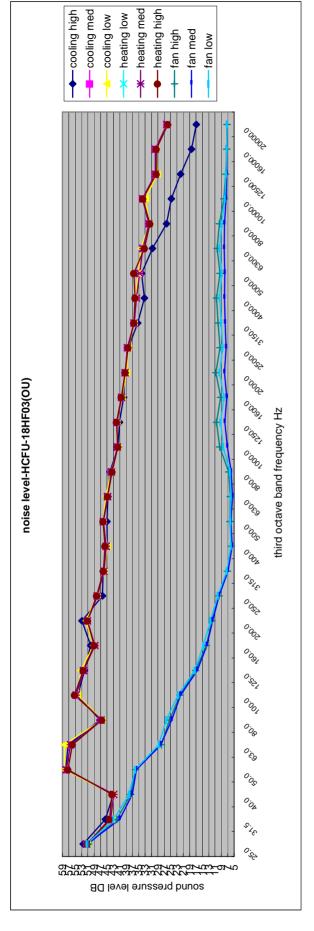


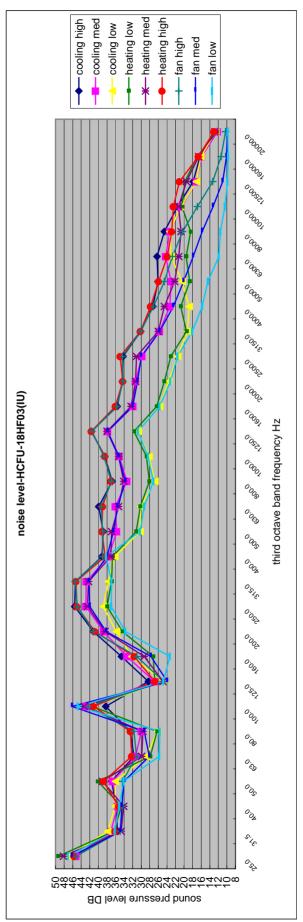




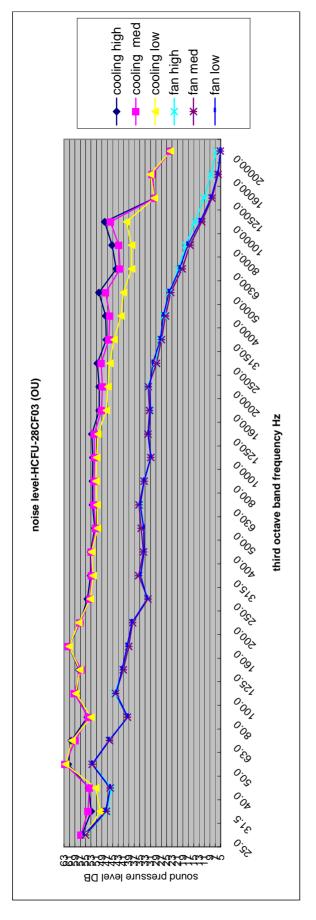


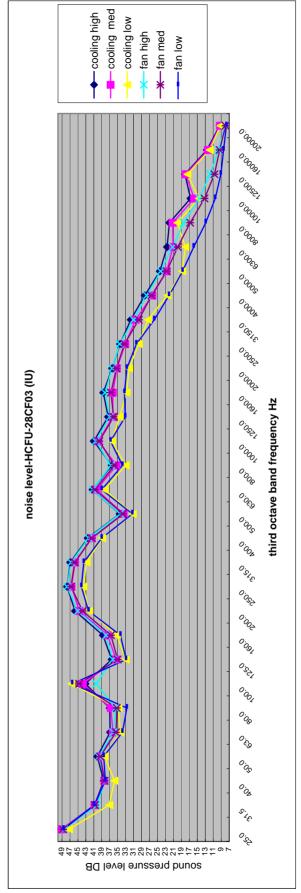




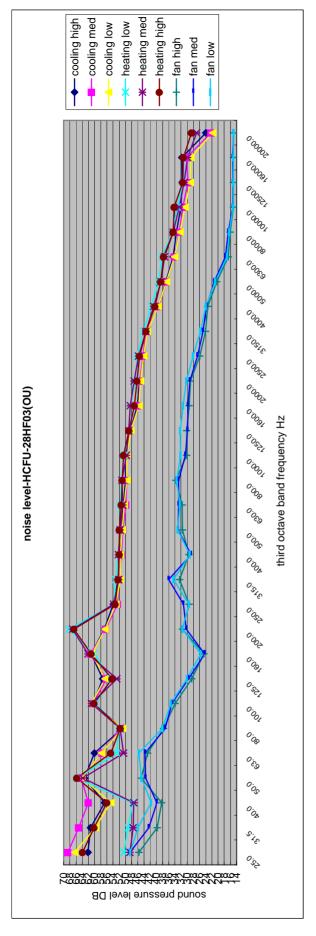


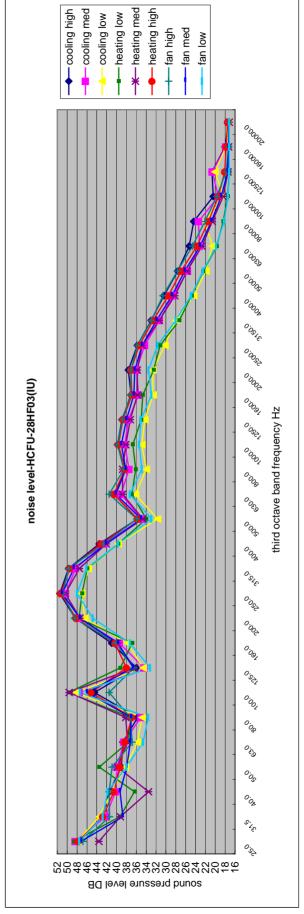




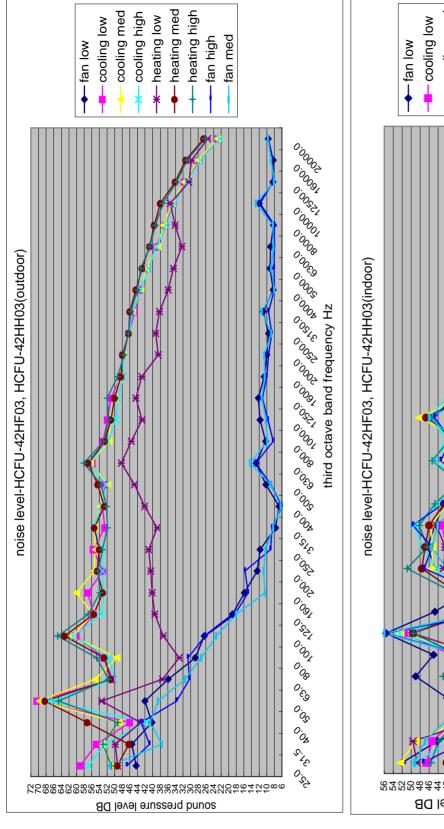


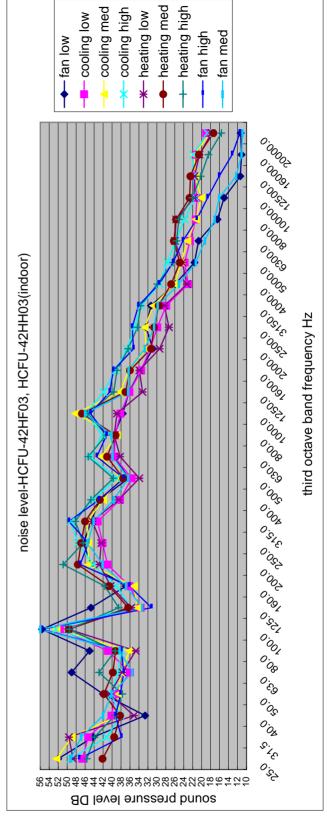




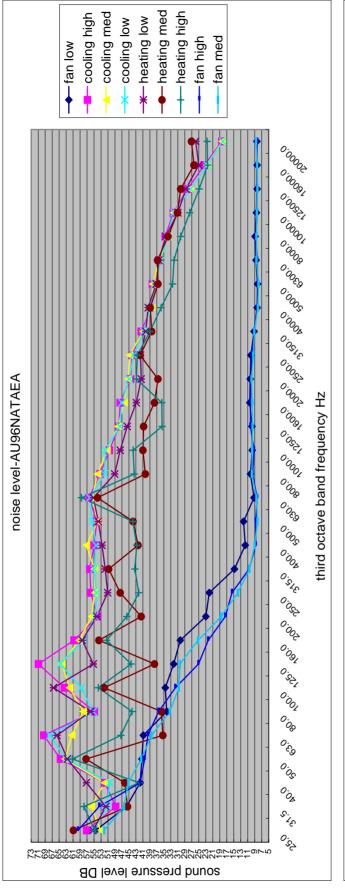


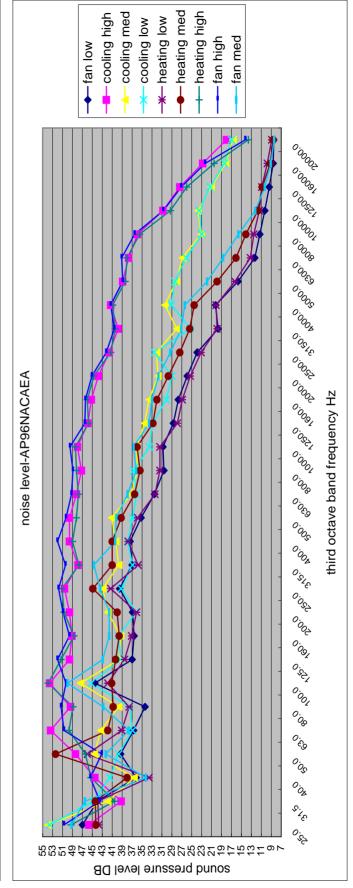








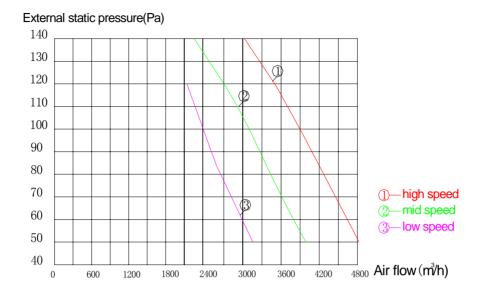




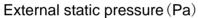


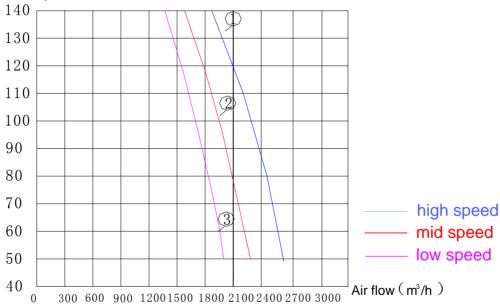
3.3 Air volume and external static pressure curves

AD96NAHAEA



HDU-42CF03/H HDU-42HF03/H HDU-42CH03/H HDU-42CI03/H HDU-42HK03/H HDU-50HT03/H

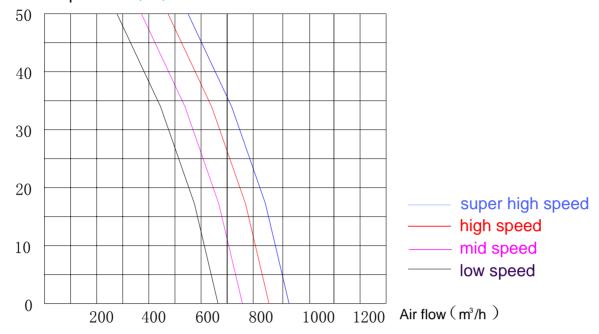






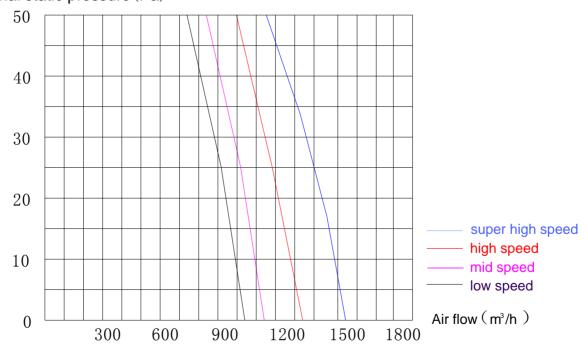
HDU-18CF03 HDU-18HF03

External static pressure (Pa)



HDU-28CF03 HDU-28HF03

External static pressure (Pa)





3.4 Air velocity distribution

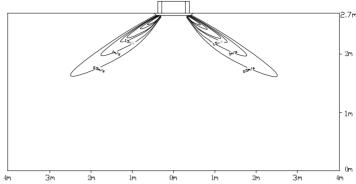
3.4.1 For HBU-18 model

a. Cooling / Air Velocity Distribution

Cooling

Blowy angle:40

Air Velocity Distribution

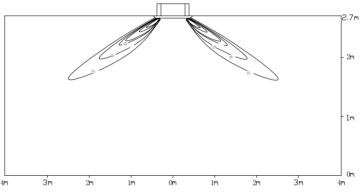


b. Cooling / Temperature Distribution

Cooling

Blowy angle:40

Temperature Distribution

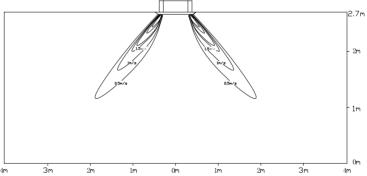


c. Heating / Air Velocity Distribution

Heating

Blowy angle:70

Air velocity Distribution

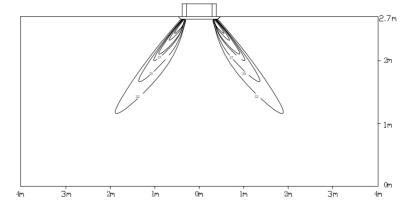


d. Heating / Temperature Distribution

Heating

Blowy angle:70

Temperature Distribution



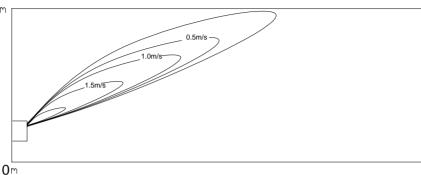


3.4.2 For HCFU-18 model

1) Grounding

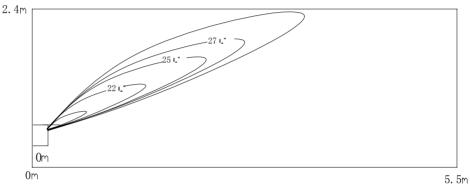
a. Cooling / Air Velocity Distribution

Cooling Blowy angle:25 Air Velocity Distribution



b. Cooling / Temperature Distribution

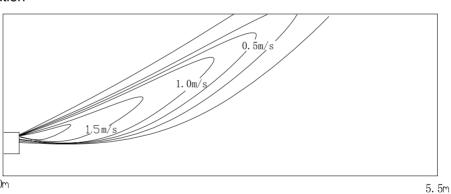
Cooling Blowy angle:25 Temperature Distribution



c. Heating / Air Velocity Distribution

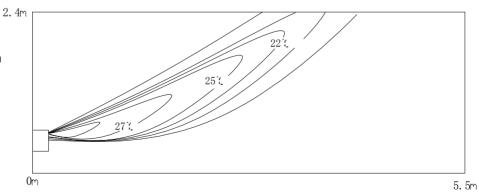
2.4m

Heating Blowy angle:5 Air velocity Distribution



d. Heating / Temperature Distribution

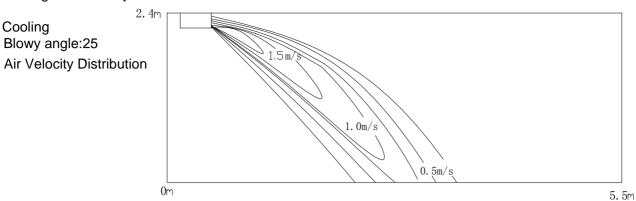
Heating
Blowy angle:5
Temperature Distribution



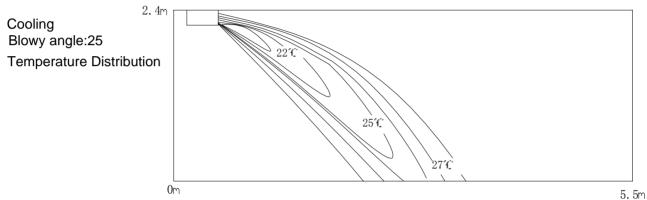


2) Ceiling

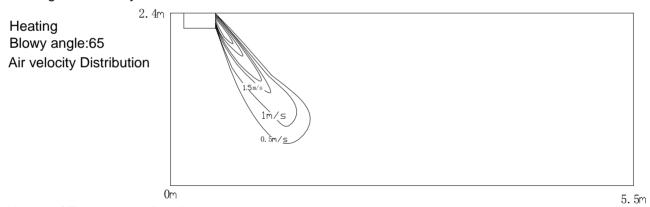
a. Cooling / Air Velocity Distribution



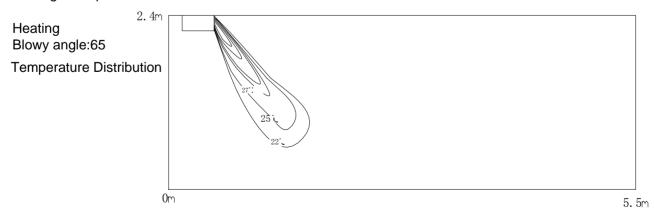
b. Cooling / Temperature Distribution



c. Heating / Air Velocity Distribution



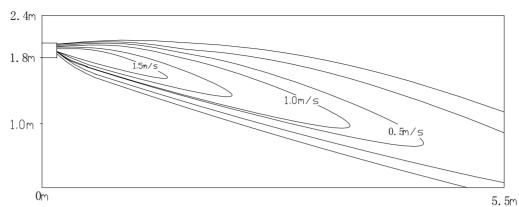
d. Heating / Temperature Distribution



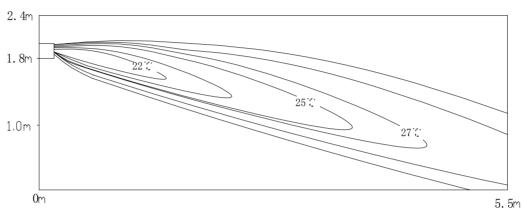


3.4.3 For HDU-18 model

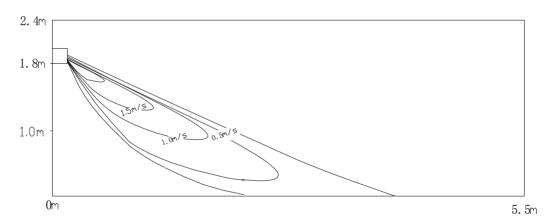
cooling air discharge angle 5⁻ Air Velocity distribution



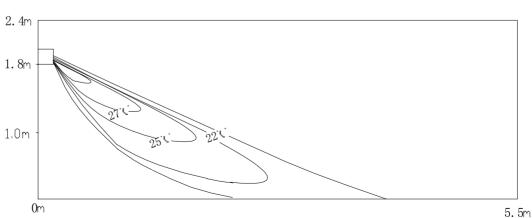
cooling
air discharge angle 5⁻
Temperature distribution



heating air discharge angle 45⁻ Air Velocity distribution



heating air discharge angle 45⁻ Temperature distribution

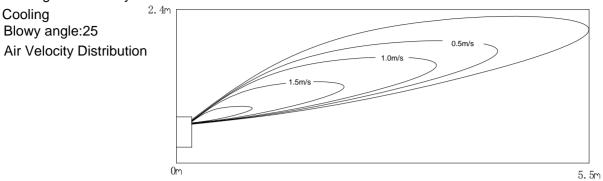


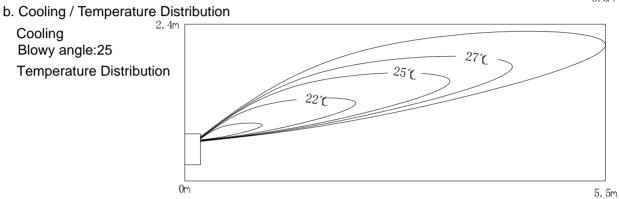


3.4.4 For HCFU-28 model

a) Grounding

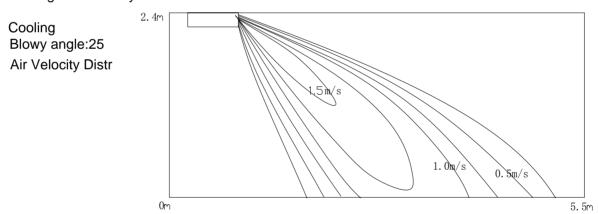
a. Cooling / Air Velocity Distribution



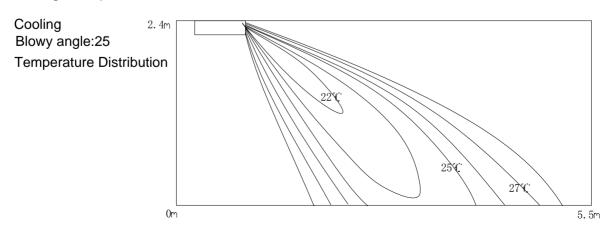


b) Ceiling

a. Cooling / Air Velocity Distribution



b. Cooling / Temperature Distribution

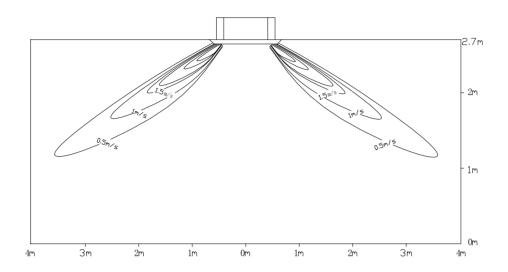




3.4.5 For HBU-28 model

a. Cooling / Air Velocity DistributionCoolingBlowy angle:40

Air Velocity Distribution

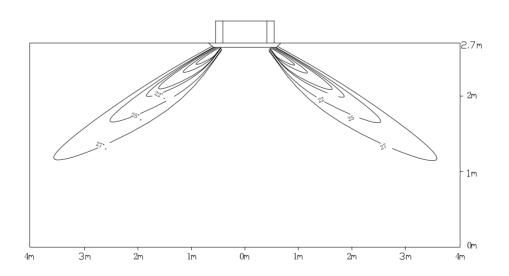


b. Cooling / Temperature Distribution

Cooling

Blowy angle:40

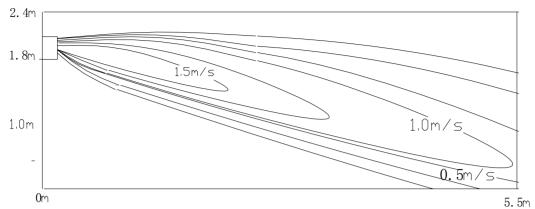
Temperature Distribution



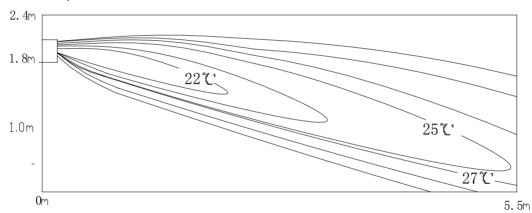


3.4.6 For HDU-28 model

cooling air discharge angle 5⁻ Air Velocity distribution



cooling air discharge angle 5⁻ Temperature distribution





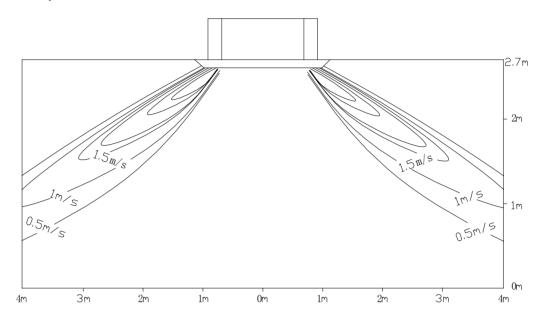
3.4.7 For HBU-42 model

a. Cooling / Air Velocity Distribution

Cooling

Blowy angle:40

Air Velocity Distribution

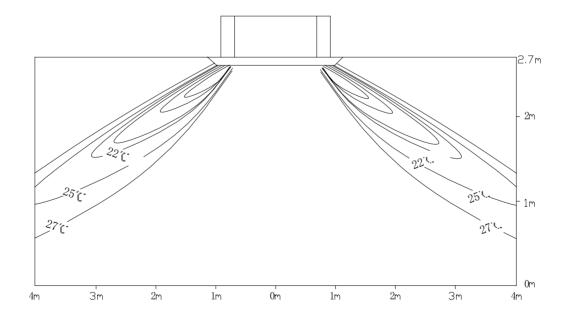


b. Cooling / Temperature Distribution

Cooling

Blowy angle:40

Temperature Distribution





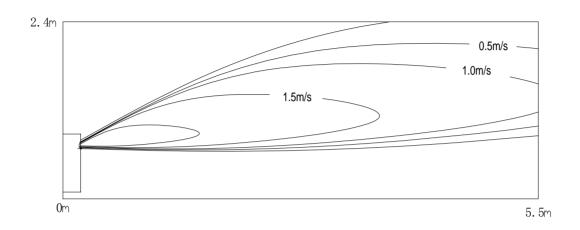
3.4.8 For HCFU-42 model

a. Cooling / Air Velocity Distribution

Cooling

Blowy angle:25

Air Velocity Distribution

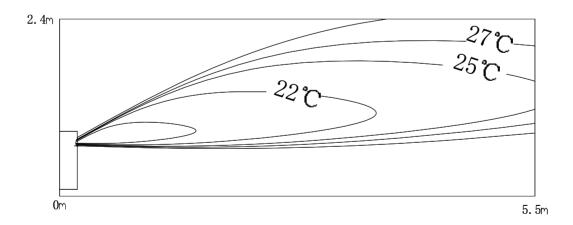


b. Cooling / Temperature Distribution

Cooling

Blowy angle:25

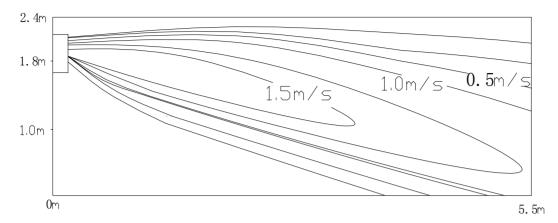
Temperature Distribution



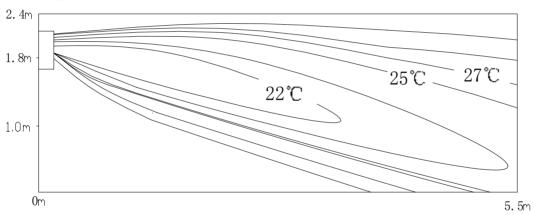


3.4.9 For HDU-42/50 model

cooling air discharge angle 5⁻ Air Velocity distribution



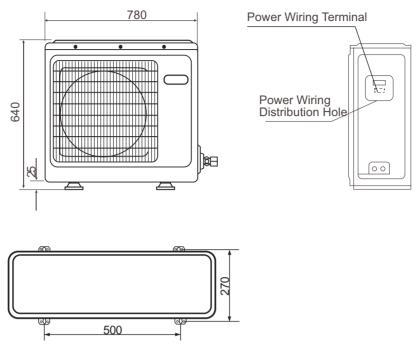
cooling
air discharge angle 5
Temperature distribution



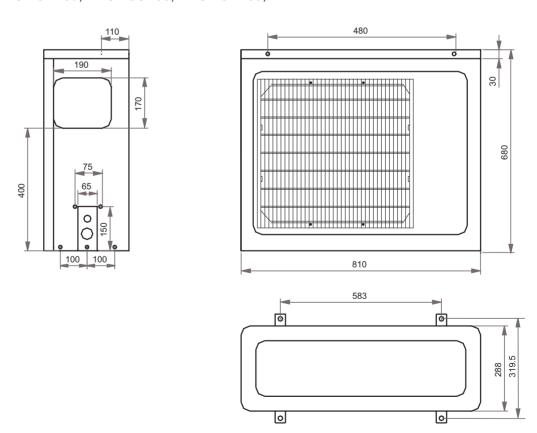


4. Dimension

HCFU-18CF03, HCFU-18HF03

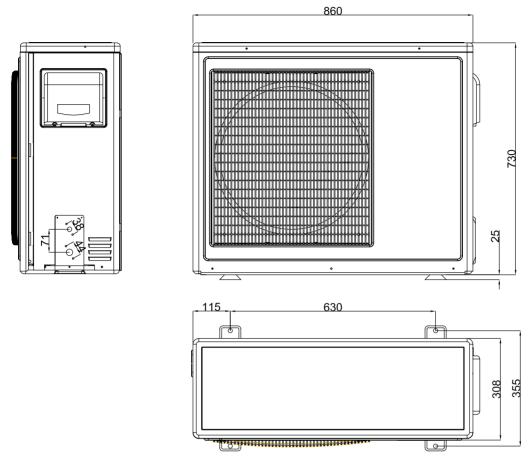


HBU-18CF03, HBU-18HF03, HDU-18CF03, HDU-18HF03,

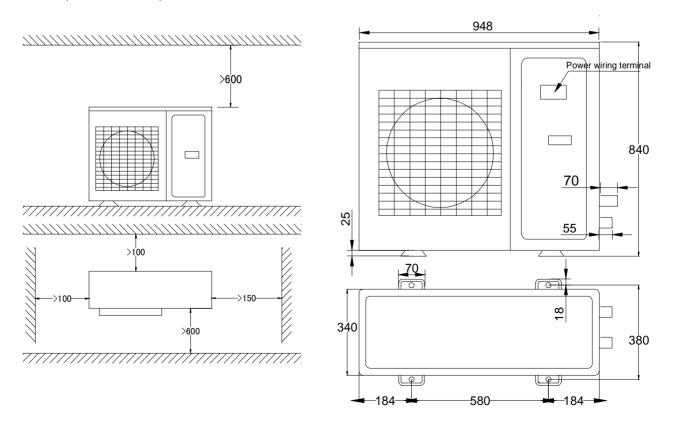




HBU-28CF03, HBU-28CH03, HBU-28HH03, HCFU-28CF03, HCFU-28HF03,

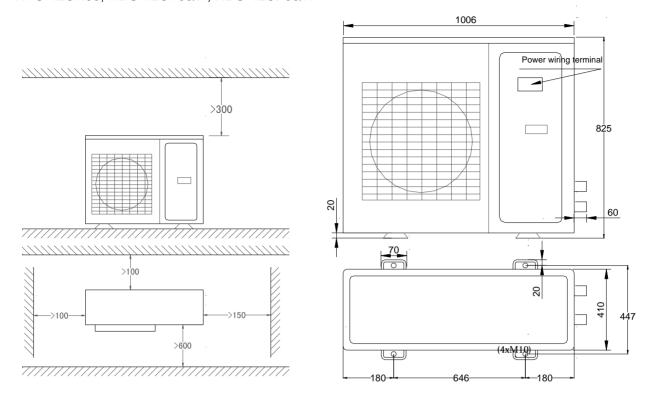


HBU-28HF03, HDU-28CF03, HDU-28HF03

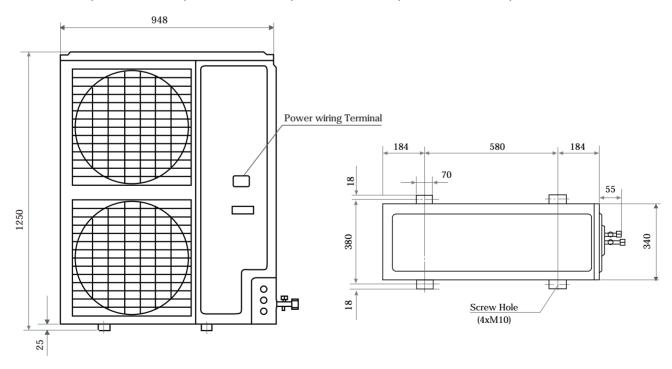




HBU-42CF03, HBU-42HF03, HBU-42CH03, HCFU-42CF03, HCFU-42CH03, HPU-42CF03, HPU-42CF03/H, HDU-42CF03/H

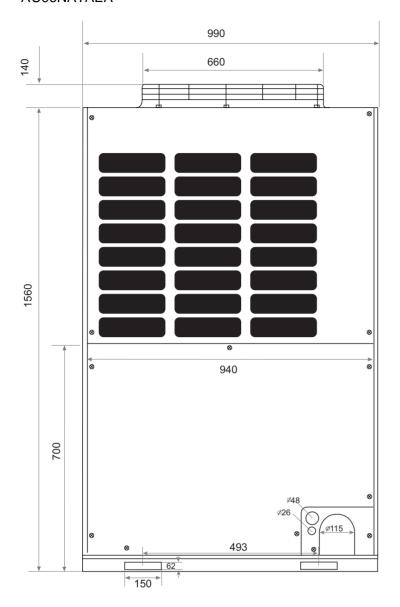


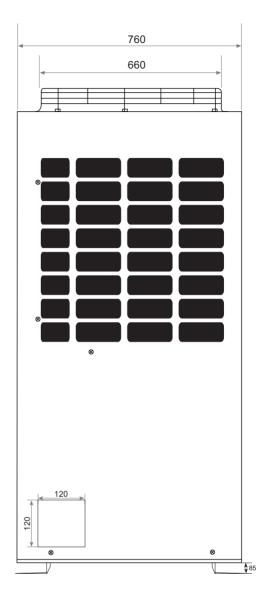
HBU-42Cl03, HBU-42Hl03, HCFU-42HF03, HCFU-42HK03, HPU-42HF03, HPU-42CV03, HPU-42HV03 HPU-48HF03, HPU-42Hl03, HDU-42HF03/H, HDU-42Cl03/H, HDU-42HK03/H, HDU-50HT03/H





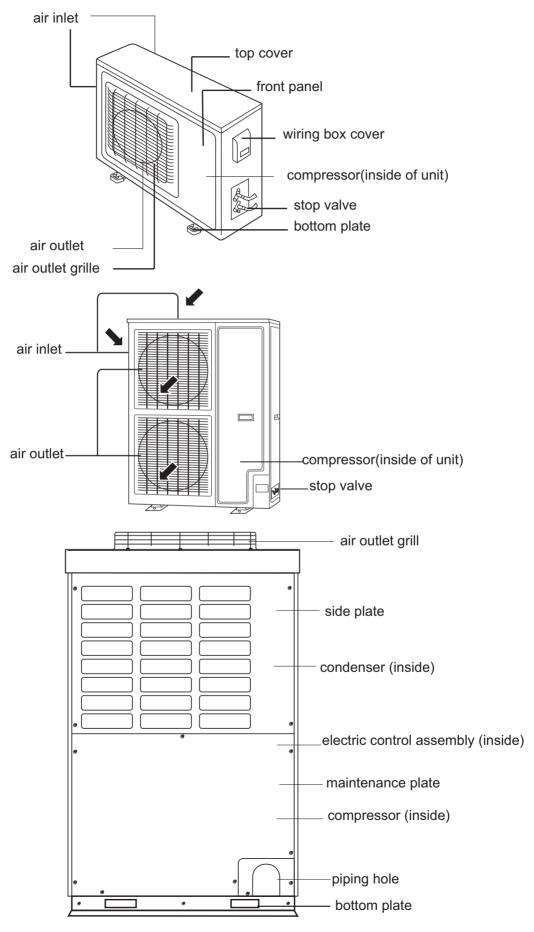
AU96NATAEA







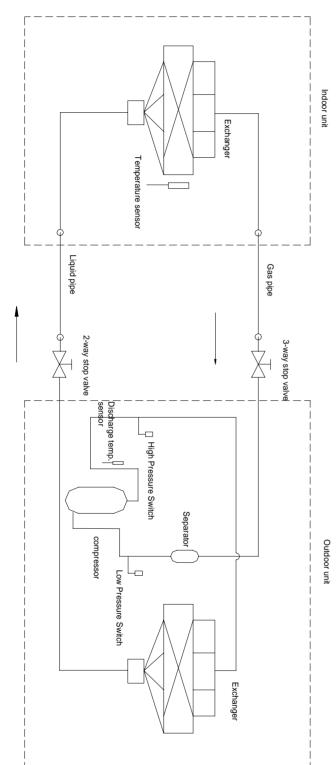
5. Part name



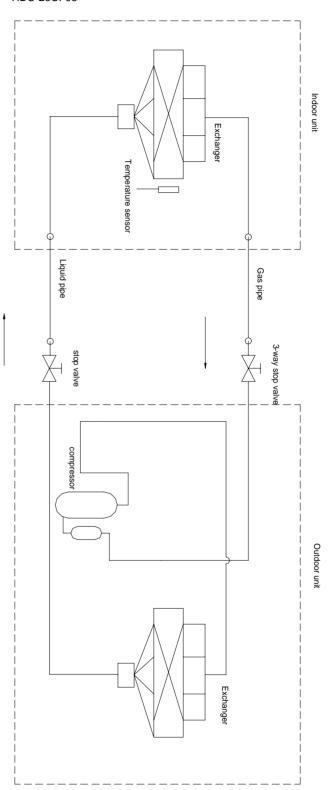


6. Refrigerant diagram

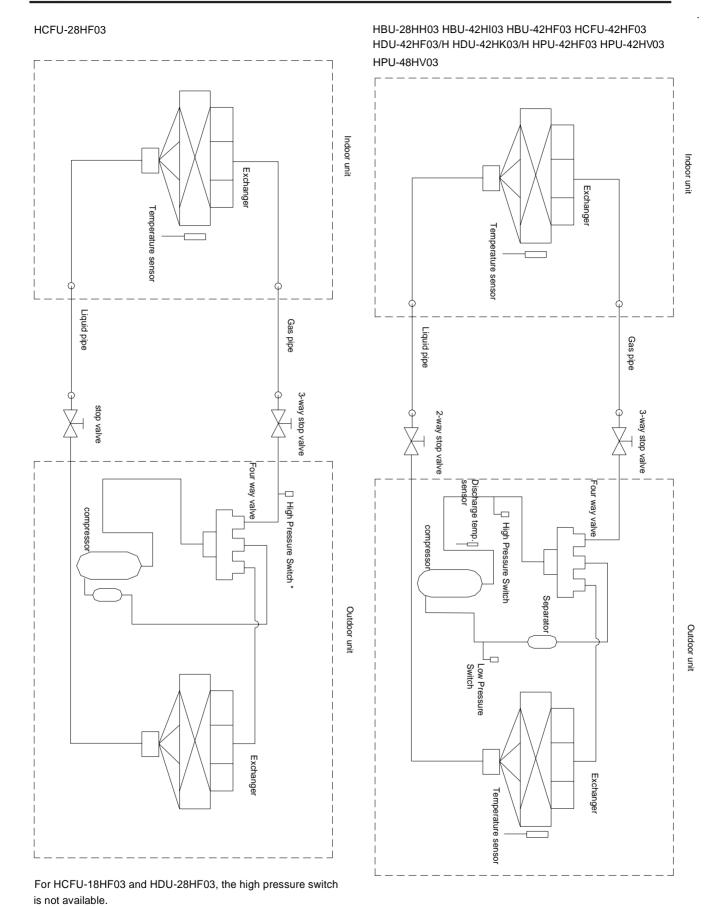
HBU-28CH03 HBU-42CH03 HBU-42CI03 HDU-42CH03/H HDU-42CF03/H HDU-42CI03/H HCFU-42CF03 HPU-42CV03



HBU-18CF03 HBU-28CF03 HCFU-18CF03 HCFU-28CF03 HDU-28CF03







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7. Installation

Carefully read the following information in order to operate the airconditioner correctly.

Below are listed three kinds of Safety Cautions and Suggestions.

WARNING! Incorrect operations may result in severe consequences of death or serious injuries.

CAUTION! Incorrect operations may result in injuries or machine damages; in some cases may cause serious consequences.

INSTRUCTIONS: These information can ensure the correct operation of the machine.

Be sure to conform with the following important Safety Cautions.

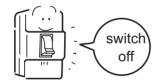
The Safety Cautions should be at hand so that they can be checked at any time when needed.

If the conditioner is transferred to the new user, this manual should be as well transferred to the new user.

WARNING!

 If any abnormal phenomena is found (e. g.smell of firing), please cut off the power supply immediately, and contact the dealer to find out the handling method.

In such case, to continue using the conditioner will damage the conditioner, and may cause electrical shock or fire hazard.



 After the unit being used for a long time, the base should be checked for any damages.

If the damaged base is not repaired, the unit may fall down and cause accidents.



Don't dismantle the outlet of the outdoor unit.

The exposed fan is very dangerous which may harm human beings.



 When the unit needs maintenance and repairment, please call dealer to handle it.

Incorrect maintenance and repairment may cause water leak, electrical shock and fire hazard.





WARNING!

 Installed electrical-leaking circuit breaker.

It easily cause electrical shock without circuit breaker.

- Air-conditioner can't be installed in the environment with inflammable gases because the inflammable gases near to air-conditioner may cause fire hazard.
- Please let the dealer be responsible for installing the conditioner.

Incorrect installation may cause water leak, electrical shock and fire hazard.

 Call the dealer to take measures to prevent the refrigerant from leaking.

If conditioner is installed in a small room be sure to take every measure in order to prevent suffocation accident even in case of refrigerant leakage.

 When conditioner is deinstalled or reinstalleddealer should be responsible for them

Incorrect installation may cause water leaking, electrical shock and fire hazard.

• Connect earthing wire.

Earthing wire should not be connected to the gas pipe, water pipe, lightning rod or phone line, in-correct earthing may cause shock.



 No goods or nobody is permitted to placed on or stand on outdoor unit.

The falling of goods and people may cause accidents.



• Don't operate the air-conditioner with damp hands.

Otherwise will be shocked.



• Only use correctly-typed fuse.

May not use wire or any other materials replacing fuse, other-wise may cause faults or fire accidents.



• Use discharge pipe correctly to ensure efficient discharge.

Incorrect pipe use may cause water leaking.

Edging



7.1 For series 18, 28, 42, 48, 50

1. Accessories

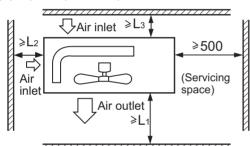
"Edging" for protection of electric wires from an opening edge.

2. Selection of the place of installation

Select the place of installation satisfying the following conditions and, at the same time, obtain a consent from the client or user.

- Place where air circulates.
- Place free from heat radiation from other heat sources.
- Place where drain water may be discharged.
- Place where noise and hot air may not disturb the neighborhood.
- Place where there is not heavy snowfall in the winter time.
- Place where obstacles do not exist near the air inlet and air outlet .
- Place where the air outlet may not be exposed to a strong wind.
- Place surrounded at four sides are not suitable for installation. A 1m or more of overhead space is needed for the unit.
- Mount guide-louvers to place where short-circuit is a possibility.
- When installing several units, secure sufficient suction space to avoid short circuiting.

(1) Open space requirement around the unit



Note

(1) Fix the parts with screws

Unit: mm

- (2) Don't intake the strong wind directly to the outlet airflow hole.
- (3) A one meter distance should be kept from the unit top
- (4) Don't block the surroundings of the unit with sundries

Case	I	II	III
L ₁	open	open	500
L ₂	300	300	open
L ₃	150	300	150

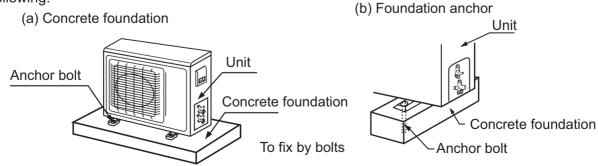


(2) Installation where the area with strong winds.

Install the unit so that the air outlet section of the unit must NOT be faced toward wind direction.

3. Installation of outdoor unit

Fix the unit in a proper way according to the condition of a place where it is installed by referring to the following.

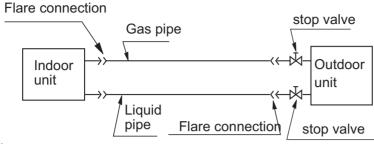


• Install the unit so that the angle of inclination must be less than 3 degrees.



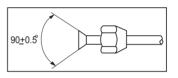
4. Refrigerant piping

(1) Outline piping



(2) Piping size

HBU-18CF03 HBU-18HF03 HCFU-18CF03 HCFU-18HF03	Liquid pipe	Ф 6.35x0.8mm
HDU-18CF03 HDU-18HF03	Gas pipe	Ф 12.7x1.0mm
HBU-28CF03 HBU-28HF03 HBU-28CH03 HBU-28HH03	Liquid pipe	Ф 9.52x0.8mm
HCFU-28CF03 HCFU-28HF03 HDU-28CF03 HDU-28HF03	Gas pipe	Ф 15.88x1.0mm
HBU-42CF03 HBU-42CI03 HBU-42CH03 HBU-42HI03 HCFU-42CF03 HCFU-42HF03 HCFU-42CH03 HCFU-42HK03 HDU-42CF03/H HDU-42HF03/H	Liquid pipe	Ф 9.52x0.8mm
HDU-50HT03/H HDU-42CH03/H HDU-42Cl03/H HDU-42HK03/H HPU-42CF03 HPU-42HF03 HPU-42CV03 HPU-42HV03 HPU-48HV03 HPU-42CH03 HPU-42HI03	Gas pipe	Ф19.05x1.0mm



• Install the removed flare nuts to the pipes to be connected, then flare the pipes.

(3) Limitations for one way piping length and vertical height difference

	•	-
Model	One way piping length	Vertical height difference (between indoor and outdoor)
HBU-18CF03 HBU-18HF03 HCFU-18CF03 HCFU-18HF03 HDU-18CF03 HDU-18HF03	less than 15m	less than 5 m
HBU-28CF03 HBU-28HF03 HBU-28CH03 HBU-28HH03 HDU-28CF03 HDU-28HF03	less than 30 m	less than 15 m
HCFU-28CF03 HCFU-28HF03	less than 30 m	less than 20 m
HBU-42CF03 HBU-42CI03 HBU-42CH03 HBU-42HI03 HCFU-42CF03 HCFU-42HF03 HCFU-42CH03 HCFU-42HK03 HDU-42CF03/H HDU-42HF03/H HDU-50HT03/H HDU-42CH03/H HDU-42CI03/H HDU-42HK03/H HPU-42CF03 HPU-42HF03 HPU-42CV03 HPU-42HV03 HPU-48HV03 HPU-42CH03 HPU-42HI03	less than 50 m	less than 30 m

Precautions for refrigerant piping

- Do not twist or crush piping.
- Be sure that no dust is mixed in piping.
- Bend piping with as wide angle as possible.
- Keep insulating both gas and liquid piping.
- Check flare-connected area for gas leakage.



(4) Piping connection

• Connecting method (indoor unit)

Apply refrigerant oil at half union as large and flare nut.

To bend a pipe, give the roundness as possible not to crush the pipe.

When connecting pipe, hold the pipe centre to centre then screw nut on by hand, refer to Fig. Be careful not to let foreign matters, such as sands enter the pipe.

Forced fastening without centering may damage the threads and cause a gas leakage.

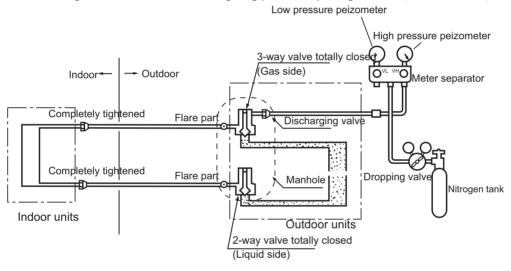
Pipe diameter	Fastening torque
Liquid pipe 6.35mm	14.2-17.2N·m
Liquid pipe 9.52mm	32.7-39.9N·m
Gas pipe 12.7mm	49.5-60.3N·m
Gas pipe 15.88mm	61.8-75.4N·m
Gas pipe 19.05mm	97.2-118.6N·m

5. Air discharging method

After finishing connection of refrigerant pipe, it shall perform air tightness test.

 The air tightness test adopts nitrogen tank to give pressure according to the pipe connection mode as the following figure shown.

The gas and liquid valve are all in close state. In order to prevent the nitrogen entering the circulation system of outdoor unit, tighten the valve rod before giving pressure (both gas and liquid valve rods).



First step: 0.3MPa (3.0kg/cm²g) pressurize over 3 minutes.

Second step: 1.5Mpa (15kg/cm²g) pressurize over 3 minutes. Large leakage will be found.

Third step: 3.0 MPa (30kg/cm²g) pressurize about 24 hours. Little leakage will be found.

Check if the pressure drops

The pressure does not drop-passed

The pressure drops-check the leaking point.

From pressurizing to 24 hours later, each 1 degree difference of ambient temperature will make 0.01MPa (0.1kg/cm²g) pressure change. It shall be corrected during test.

Checking the leaking point

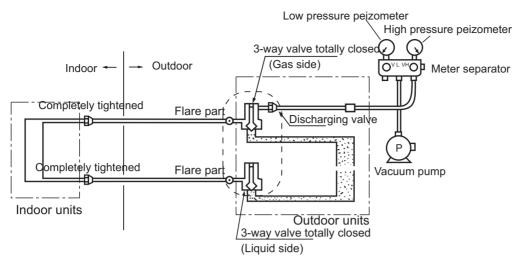
In the first to third test steps, if the pressure drops, check the leakage in each joint use sense of hearing, feeling and soap water, etc. methods to find the leaking point.

After confirming the leaking point, welding it again or tighten the nut tightly again.

6. Piping and indoor unit vacuumizing

- Use vacuum pump to perform vacuumizing. It is strictly forbidden to use the refrigerant to remove the air inside the system.
- After air tightness test and discharging all the nitrogen, connect the vacuum pump as the following figure shown.





- It shall use the vacuum pump of (lower than -755mmHg)high vacuum degree and large air discharging (over 40l/min).
- The vacuumizing time depends on the length of the connecting pipe, generally is 1~2 hours. When vacuumizing, it shall be confirmed both gas and liquid side valves are closed.
- If after 2 hours vacuumizing, it cannot reach the vacuum degree below -755mmHg, it can be vacuumized for other 1 hour.
 - If after 3 hours vacuumizing, it still cannot reach the vacuum degree below -755mmHg, check if there is any leaking point and repair the them.
- If after over 2 hours vacuumizing, the vacuum degree is below -755mmHg, close the VL and VH on the meter separator and stop vacuumizing. 1 hour later to confirm if the vacuum degree changes. If changes, it indicates there is leaking point in the system. Check the leaking point and repair.
- After finishing the above vacuumizing, change the vacuum pump into refrigerant pump to charge the refrigerant.

7. Charging amount of refrigerant

When the total length (L) of the two indoor units' connecting pipe is less than 5m, it is unnecessary to charge additional refrigerant.

If the connecting pipe (L) exceeds 5m, it shall charge Mg additional refrigerant per meter.

That is: Refrigerant charging amount = $(L-5) \times M(g)$

For the unit with liquid pipe 6.35mm, M=30

For the unit with liquid pipe 9.52mm, M=65

- Only in COOLING operation can charge the additional refrigerant.
- When charging, the refrigerant shall be charged from the charging nozzle of low pressure vavle.
- Be carefull when charging refrigerant, do not let the air mix into the system, and must charge the additional refrigerant in liquid condition.

8. Electric wiring

WARNING!

DANGER OF BODILY INJURY OR DEATH TURN OFF ELECTRIC POWER AT CIRCUIT BREAKER OR POWER SOURCE BEFORE MAKING ANY ELECTRIC CONNECTIONS.
GROUND CONNECTIONS MUST BE COMPLETED BEFORE MAKING LINE VOLTAGE CONNECTIONS.

(1) Selection of size of power supply and interconnecting wires.

Precautions for Electric wiring

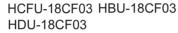
- Electric wiring work should be conducted only by authorized personnel.
- Do not connect more than three wires to the terminal block. Always use round type crimped terminal lugs with insulated grip on the ends of the wires.
- Use copper conductor only.

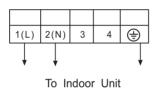
Select wire sizes and circuit protection from table below. (This table shows 20 m length wires with less than 2% voltage drop.)



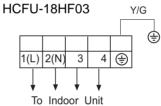
Item		Circuit b	reaker	Power source	Earth leak	age breaker
Model	Phase	Switch breaker (A)	Overcurrent protector	wire size (minimum)	Switch break	Leak curren
HBU-18CF03 HBU-18HF03 HCFU-18CF03 HCFU-18HF03 HDU-18CF03 HDU-18HF03	1	30	20	2.5mm²	30A	30mA
HBU-28CF03 HBU-28HF03 HBU-28CH03 HBU-28HH03 HCFU-28CF03 HCFU-28HF03 HDU-28CF03 HDU-28HF03	1	40	36	4.0mm²	40A	30mA
HBU-42CF03 HBU-42CI03 HBU-42CH03 HBU-42HI03 HCFU-42CF03 HCFU-42HF03 HCFU-42CH03 HCFU-42HK03 HDU-42CF03/H HDU-42HF03/H HDU-50HT03/H HDU-42CH03/H HDU-42CI03/H HDU-42HK03/H	3	30	20	2.5mm²	30A	30mA
AU96NATAEA	3	40	36	6.0mm ²	30A	30mA

(2) Wiring connection

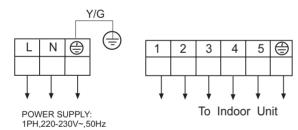




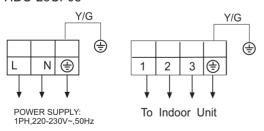
HBU-18HF03 HDU-18HF03



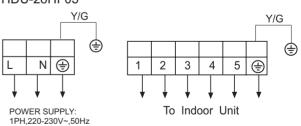
HCFU-28HF03



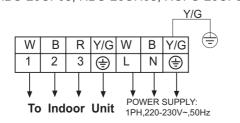
HDU-28CF03



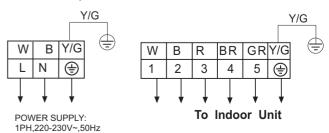
HDU-28HF03



HBU-28CF03, HBU-28CH03, HCFU-28CF03

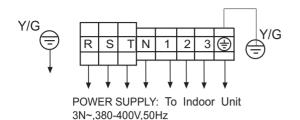


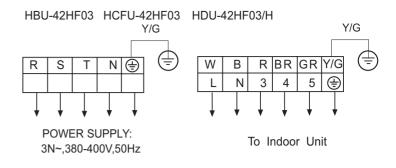
HBU-28HF03, HBU-28HH03





HBU-42CF03 HBU-42CI03 HBU-42CH03 HBU-42HI03 HCFU-42CF03 HCFU-42CH03 HCFU-42HK03 HDU-42CF03/H HDU-50HT03/H HDU-42CH03/H HDU-42CI03/H HDU-42HK03/H





WARNING! INTERCONNECTING WIRES MUST BE WIRED ACCORDING TO FIG.1, FIG.2, FIG.3 INCORRECT WIRING MAY CAUSE EQUIPMENT DAMAGE.

(3) Wiring procedure

- 1) Remove set screws on the side before taking off the front panel toward the direction shown in figure.
- 2) Connect wires to the terminal block correctly and fix the wires with a wire clamp equippednearby the terminal block.
- 3) Route the wires in a proper way and penetrate the wires through the opening for electric wiring on the side panel.

9. Test run

CAUTION! THIS UNIT WILL BE STARTED INSTANTLY WITHOUT "ON" OPERATION WHEN ELECTRIC POWER IS SUPPLIED.BE SURE TO EXECUTE "OFF" OPERATION BEFORE ELECTRIC POWER IS DISCONNECTED FOR SERVICING.

• This unit has a function of automatic restart system after recovering power stoppage.

(1) Before starting test run (for all Heat pump models)

Confirm whether the power source breaker (main switch) of the unit has been turned on for over 12 hours to energize the crankcase heater in advance of operation.

(2) Test run

Run the unit continuously for about 30 minutes, and check the following.

- Suction pressure at check joint of service valve for gas pipe.
- Discharge pressure at check joint on the compressor discharge pipe.
- Temperature difference between return air and supply air for indoor unit.

Oil trap setting requirement:

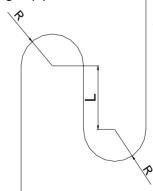
Oil trap is required no mater the outdoor unit is upper or lower than indoor unit, only when the piping drop is more than 10m.

Setting method: install one oil trap for every 10 meters at the gas pipe.

Trap dimensions:

Gas pipe diameter	Min. R (mm)	L (mm)
ф 15.88	40	80
ф 19.05	40	80
ф 25.4	40	80
ф 31.8	60	90
ф 38.1	60	100

Note: the drop between the oil trops should be 10m.





7.2 For series 96

Selection of installation site

⚠ Warning

- It should be installed at places where it is firm enough to withstand the weight of the air conditioner to prevent falling.
- Typhoon and earthquake prevention. It should be installed according to specific requirements.

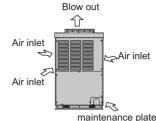
 Inasppropriate installation may lead to accidents.

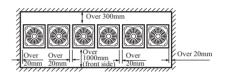
 Blow out

Installtion space

- (1)During installation, connect the outdoor unit and align the mounting surface(See the figure on the right). Mount the electric distribution device on the external side of the unit in accordance to the installation instructions for electric distribution device.
- (2)To ensure good performance of the machine and facilitate installation and maintenance, adequate space must be reserved (See figure on the right).

Note: Obstacles should be 2000mm off the top of the outdoor unit. Obstacles nearby should be 400mm lower than the top of the unit.





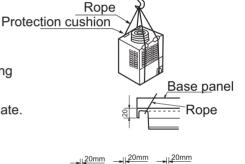
1. Handing

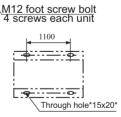
As there is no protective package for the outdoor unit, so the following points merit attention:

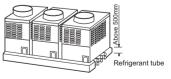
- (1) When forklift is used, insert the fork into the holes in the base plate.
- (2) When crane is used, lift the unit with 4 pieces of steel rope with diameter above 6 mm.
- (3) Put protective materials between the cable and the unit to prevent deformation and damage of the surface.

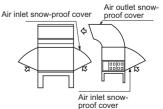
2.Mounting

- (1) The distance between two connections must not be less than 20mm.
- Refer to the following figure for the distance between the foundation bolts.
- (2)When the refrigerant pipe is connected from the bottom of the unit, the unit should be raised at least 500mm(see the figure below)
- (3)In snowy regions, snow-proof facilities should be used (see the figure below). (Poor snow-proof facilities may lead to damge. To avoid inconveniences, the unit should be raised and snow-proof covers should be installed at the air inlet and outlet.)
- (4)During installation,anti-vibration rubber pads should be used between the machine and the bracket.









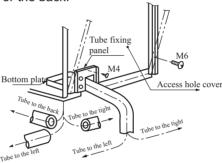


3. Connection of refrigerant pipe

- During installation, if refrigerant leakage occurs, ventilation measures must be taken. When refrigerant meets with fire, hazadous gas will be produced.
- After installation,make sure that there is no refrigerant leakage.
 Refrigerant,if meeting with heaters and stoves,ect in the room,may produce hazardous gas.

Connection of refrigerant pipe

- (1) The joints of the refrigerant pipe are inside the unit. Take off the access hole cover in front of the unit.
- (2) The pipe can be connected from the front or bottom of the outdoor unit.
- (3) Remove the L-shaped pipe from the valve by welding and connect the accessory pipe to the valve.
- (4) In the case of front connection,cut the accessory pipe at the height of the fixing panel. Then join the pipe with an elbow and let it go through the fixing panel. For the convenience of maintenance, bend the pipe down (once) and then connect pipe to the right or left.
- (5) In the case of bottom connection, join the pipe with accessory pipe through the holes in the base plate of the outdoor unit, and connect pipe the left or right or the back.



(6) During welding, the gas pipe valve must be cooled down with a wet cotton cloth.

During welding of the distribution pipe

- 1.In case of brazing weld of joint, nitrogen must be filled in the pipe to prevent oxidization.
- 2. The refrigerant pipe should be newly-made and clean. During installation, do not let water and other substance into the pipe.
- 3. Use two spanners to tighten the connecting nut. One spanner will make loose connection.

The torque moment should conform to the specified value.(Refer to the below)

Tube diameter	Torque moment for	Torque moment for
(mm)	pre-installation (N.m)	tightening up (N.m)
Ø _{12.70}	49.0(5.0kgf m)	53.9(5.5kgf m)

Selection of tube material and size

Determinaltion of tube diameter (Refer to the diagram on next page for steps 1,2,3,4 and 5 below)

1. Tube between the outdoor unit and the first bypass (main tube):

The diameter of the main tube and the outdoor tube should be the same.

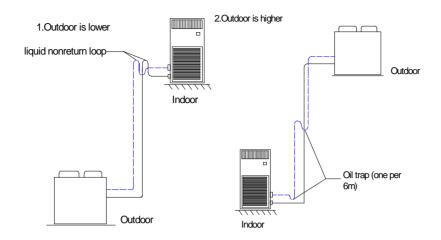
2. Tube between bypasses(sub-tube):

The diameter of the sub-pipe is determined according to the total capacity of all the connected indoor units. But if it is larger than the capacity of the outdoor unit, the diameter should be determined according the capacity of the outdoor unit.

Install the nonreturn loop and oil trap

Take AP96NACAEA as an example





Crucial points:

When testing, never use oxygen, flamable and poisonous gases.

Step 1:Charge for more than 3 minutes under 0.3MPa(3.0kg/cm²g)

Step 2: Charge for more than 3 minutes under 1.5MPa(15kg/cm²g)

--Serious leakage may be found.

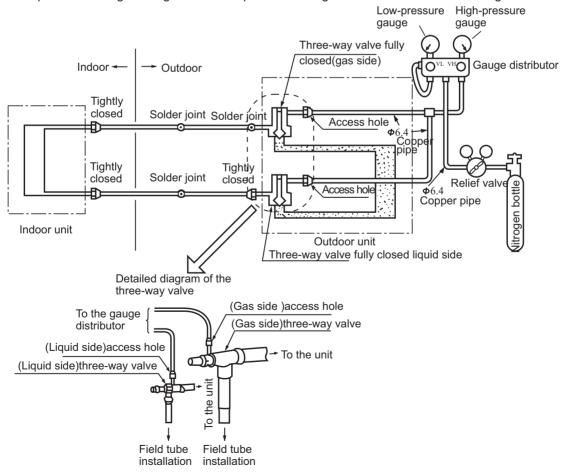
Step 3: Charge for more than 24 hours under 3.0MPa(3.0kg/cm²g)

--Small leakage may be found.

Check for pressure decrease

Without pressure decrease-Pass

With pressure decrease-Check for leaage. There will be a 0.01MPa(0.1kg/cm²g) pressure change for every 1°C ambient temperature change during the 24-hour pressure charge. It should be corrected during the test.



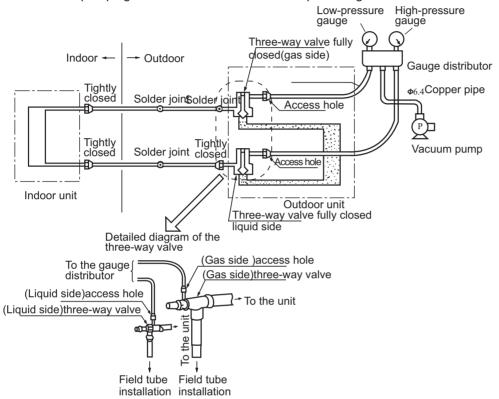


Check for leakage

• In the case of pressure decrease during steps 1 to 3 ,check the joints with the ear,hand or soapsuds for leakage. Repair it by welding or tighten the connecting nut up.

Vacuum Pumping

- Use vacuum pump to evacuate the air. Never use the refrigerant for the evacuation.
- Drain off the nitrogen gas after the leak test and then connect the vacuum pump as shown in the figure below.
- The vacuum pumping must be done from both the liquid and gas inlets.



- Use a vacuum pump with high degree of vacuum(below-755mmHg) and large volume displacement (above 40L/min)
- The pumping time depends on the length of the connecting pipe. Generally, it takes about 2-3 hours. Make sure that the Y-shaped valves on both the gas and liquid sides are closed before pumping.
- If the vacuum can no reach-755mmHg within 2 hours, continue pumping for another 1 hour.
- If the vacuum can no reach-755mmHg after more than 2 hour's pumping,close the valves V_L and V_H on the gauge distributor and stop pumping. One hour later,check the vacuum again. If the vacuum has changed, it means there is a leakage. Repair it.
- After the above steps,replace the vacuum pump with the refrigerant pump and refill refrigerant.

Charging refrigerant

Refrigrant must be charged in liquid state.
 Refrigerant bottle with or without a siphon tube can be refilled with refrigerant upright or upside down,Respectively.
 Containers for R22 refrigerant must be marked with R22 and a brown Stripe.
 R407C refrigerant cannot share the same instrument distributor and filling pipes.

Refilling of refrigerant

After the vacuum pumping, replace the vacuum pump with the refrigerant pump and refill refrigerant.

Calculation of refrigerant quantity

The factory filled refrigerant into the piping excludes the part of pipes according to be refilled on the site.

Refill the amount of refrigerant into the piping according to the following formula.

The factory filled refrigerant is listed in the table below:

The quantity of the refrigerant to be refilled during installation depends on the diameter and length of the liquid piping.



The quantity of the refrigerant t be refilled on the site=Actual length of liquid tube x quantity of refrigerant to be refilled for per meter of liquid pipe.

Recharge refrigerant

When the outdoor valve is shut, fill the refrigerant from the access hole at the gas and liquid sides.

If the required filling is impossible, open all the gas and liquid valves, then slightly shut the gas valve, run the compressor and fill the refrigerant from the access hole at the gas side. Now adjust the gas valve to control the refrigerant flow, which will be gasified during absorption by the system.

If there is insufficient refrigerant in the system caused by leaks, refill it after the remaining refrigerant is recollected.

Open all valves

• Open all the valves of the outdoor unit.

Heat isolation of the pipes

- Separate isolation should be made for the liquid and gas pipes.
- Materials used for the pipe isolation at the gas side must withstand above 120 C temperature.

Electric wiring

Note:

All the wires should be copper core wires.

The power cable of indoor unit should be equipped according to the operation manual indoor unit.

When connecting the indoor & outdoor wire, check the number of the indoor & outdoor terminals, the terminals with the same number connected together with one wire.

Incorrect wiring will damage the controller of the air conditioner or make the unit work abnormally.

The air conditioner must use special power circuit and special air switch (40A), groundign wire.

The wiring work should be done by a qualified electrician according to the national wiring rule.

The creepage breaker must be installed. The grounding line and the neutral line of the receptacle must be strictly separated. It is incorrect to connect the neutral line with the grounding line.

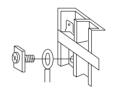
The connection type of power cord is Y connection. If the soft power cord is damaged, to avoid risk, it must be replaced by the manufacturer or their specific repair department or similar professional worker.

Wiring method

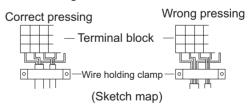
1. The wiring method of orbicular terminal

For the connection wire which end is orbicularterminal, its wiring method is as the right figure shown. Dismantle the screw and put it through the ring at the end of the connection wire, then connect it to the terminal block and tighten the screw.

2.The wiring method of straight terminal For those connection wires whose end are not orbicular terminals, their wiring method is: Loosen the connecting screw, insert the end of the wire directly into the terminal block, and then tighten screw. Pull the wire outwards slightly to confirm it is held tightly.



The wiring method of orbicular terminal



3.Pressing method of connection wire:

After wiring, the connection wire must be pressed with wire holding clamp. The wire holding clamp should press on the out cover of the connection wire.

Connect wire between indoor & outdoor unit

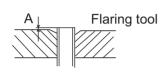
As the wiring diagram show to arrange the connection wire.

Note: The terminal block s mark at the two ends of the connection wire should be corresponding one by one, otherwise the air conditioner cannot work normally.



Others

- 1. Power supply
- The parameter of power cord is over 2.5mm.
- Air conditioner must use an exclusive line (over 30A)
- When installation air conditioner in a wet place, try to use a circuit breaker against Current leakage.
- For installation in other places, use circuit breaker as far as possible.
- The breaker of the air conditioner should be all-pole switch; and the distance between its two contacts should be no less 3 mm.
- Such means for disconnection must be incorporation in the fixed wiring
- 2. Pipe cutting and flaring
- Be sure to carry out deburring after pipe cutting with a pipe cutter.
- · Insert flaring tool to make a flare.



	Pipe dia.	Dimension A(mm)
Liquid pipe	Ø 12.7mm (1/2")	1.2 ~ 2.0

Correct	Incorrect				
	Lean	Damaged fl	are Crack	Partial	Too outside

Installation inspection and test run:

Please operate unit according to this Manual.

Items to be checked during test run. Please made a "√"in "□"

- ☐ Are there any gas leakage?
- ☐ How is insulation at piping connection carried out?
- ☐ Are electric wires of indoor and outdoor unit firmly inserted into terminal block?
- ☐ Is electric wiring of indoor and outdoor securely fixed?
- ☐ Is draminage securely carried out?
- ☐ Is earth line (grounding) securely connected?
- ☐ Is power supply voltage abided by the code?
- ☐ Is there any noise?
- ☐ Is control display normal?
- ☐ Is cooling operation normal?
- ☐ Is room temp. regulator normal?

3. Calculation of refrigerant density

Calculation will be made according to the following methods:

- 1) Total refrigerant content of each system (kg) =content of 1 outdoor system + refilled refrigerant
 - Content of 1 outdoor system: Factory filled refrigerant
 - Refilled refrigerant: Filled content during installation according to the diameter and length of the liquid piping.
- 2) Calculation of the minimum room sapce (m³).
- 3) Calculation of refrigerant density

 $\underline{\text{Total refrigerant content}} \leqslant \text{Refrigerant density:0.3(kg/m}^3)$ Minimum room space



2.Preventive measures against excess of critical value

1) Make ventilation holes

Ventilation holes should be built above and under the door. The area of each hole should not be smaller than 0.15% of the room space. Holes can be made directly in the wall.

2) Reduce the filling content of refrigerant

Filling content of refrigerant can be reduced by shortening the distance between the indoor and outdoor units. By reducing the capacity of the outdoor unit.

When outdoor unit be made up of several units.the outdoor capacity of each system should reduce. So the refrigerant content of system reduce.

3) Install ventilation fans.

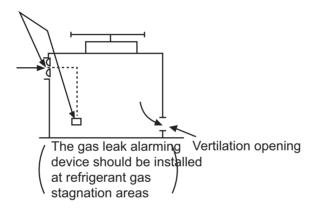
Users can install uninterrupted ventilation fans to keep the refrigerant density under the critical value.

If uninterrupted ventilation is impossible, a combined fanning and alarming device should be installed in its stead (through which immediate ventilation is possible when leak occurs).

(See the figure below)

An example

Ventilation fan and gas leak alariming device





Part 4 Electrical Control

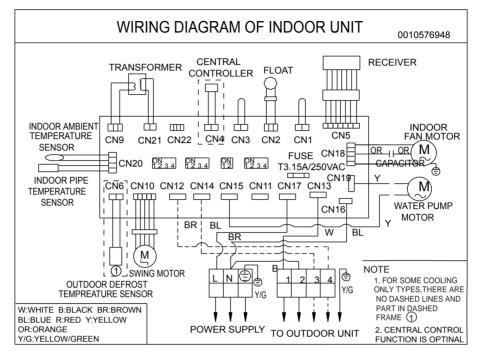
1. Electrical wiring diagram and PCB photo	191
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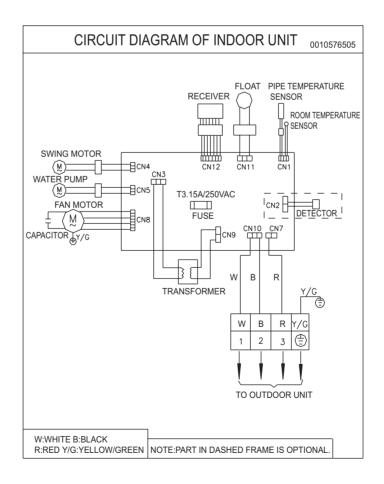
1 Wiring diagram and PCB photo

1.1 For indoor unit

HBU-18CF03, HBU-18HF03

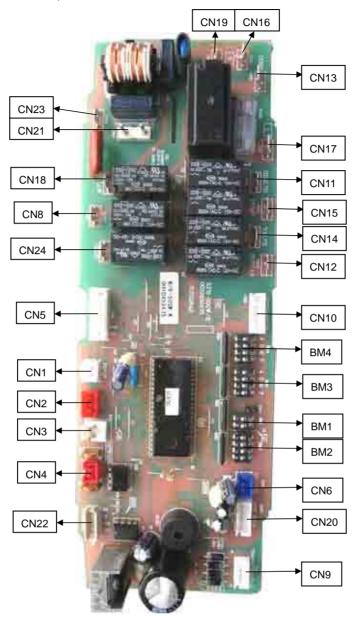


HBU-28CF03





0010452475 for HBU-18CF03, HBU-18HF03 and HBU-28CF03 indoor unit

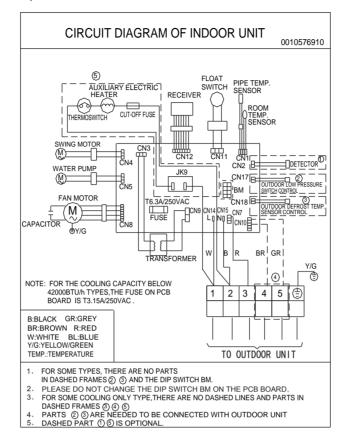


			BM1(1)	BM1(2)
Without outdoor PCB	*	*	×	×
Fixed frequency single split with outdoor PCB	*	*	V	×
Fixed frequency multi split with outdoor PCB	*	*	×	V
Inverter single split with outdoor PCB	*	*	$\sqrt{}$	V
	BM2(1)	BM2(2)	BM2(3)	BM2(4)
Without temp. compensation	×	×	*	*
With/without 2 [™] temp. compensation	$\sqrt{}$	×	*	*
With/without 4℃ temp. compensation	×	V	*	*
With/without 6°C temp. compensation	V	√	*	*
Cooling only/heat pump	*	*	√/×	*
With/without defrost sensor	*	*	*	√/×

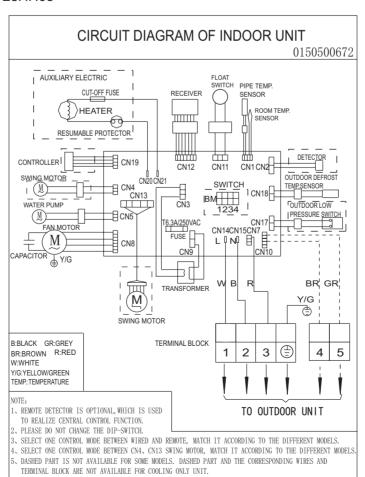
			BM4				BM3	
address	1	2	3	4	1	2	3	4
1	×	×	×	×	×	×	×	×shows
2	√	×	×	×	×	×	×	no
3	×		×	×	×	×	×	network
4	V	1	×	×	×	×	×	home appliance
5	×	×	V	×	×	×	×	
6	V	×	V	×	×	×	×	√with
								network
126	V	×	V	V	V	V	V	home
127	×	V	V	V	V	V	V	appliance
128	V	√	√	√	√	√	√	



HBU-28HF03, HBU-42CF03, HBU-42HF03

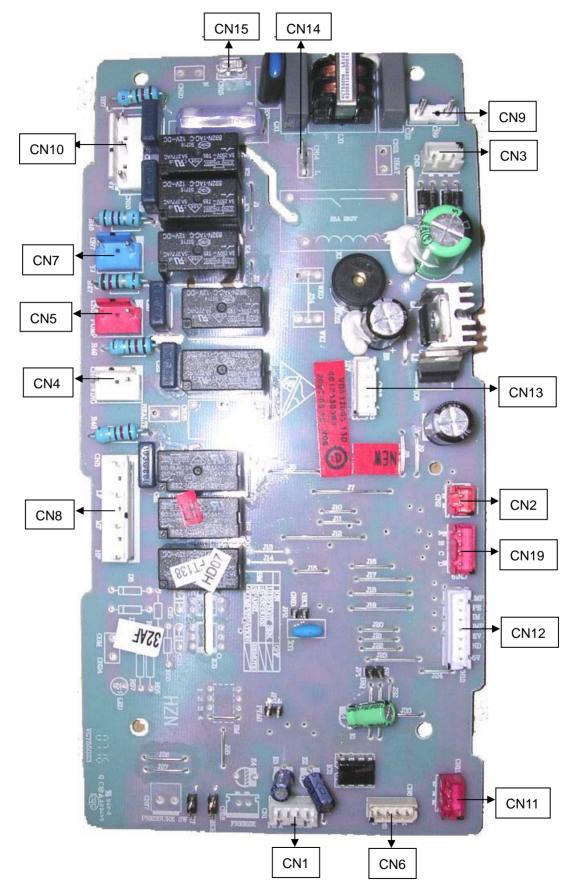


HBU-28CH03, HBU-28HH03



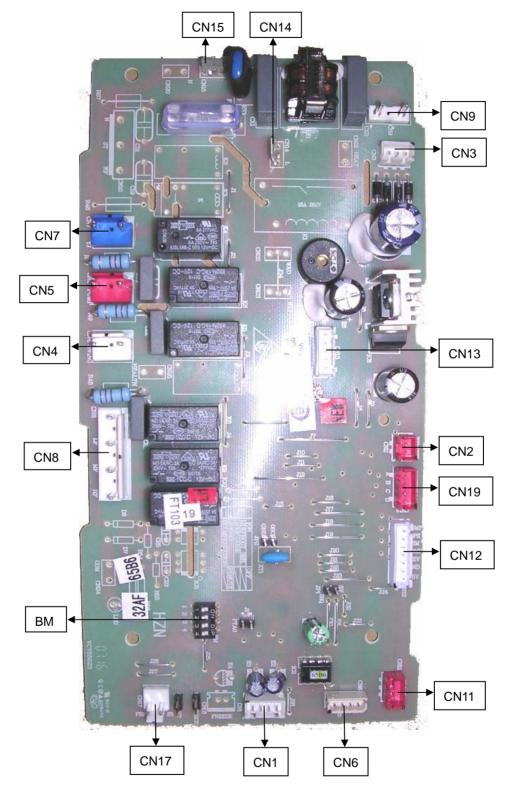


0010450363 for HBU-28HF03 and HBU-28HH03 indoor unit





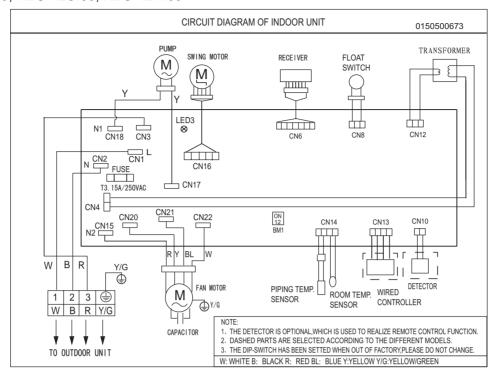
0010452035 for HBU-42HF03, 0010452036 for HBU-28CH03 and HBU-42CF03 indoor unit



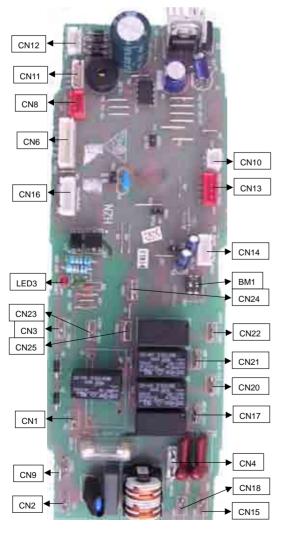
	BM2(1)	BM2(2)	BM2(3)	BM2(4)
With/without defrost sensor	√/×	*	*	*
With/without pressure switch	*	√/ x	*	*
Wired/remote control	*	*	√/×	*
With/without temp. compensation	*	*	*	√/×



HBU-42CH03, HBU-42Cl03, HBU-42Hl03



0010452567 for HBU-42CH03, HBU-42Cl03 and HBU-42Hl03 indoor unit



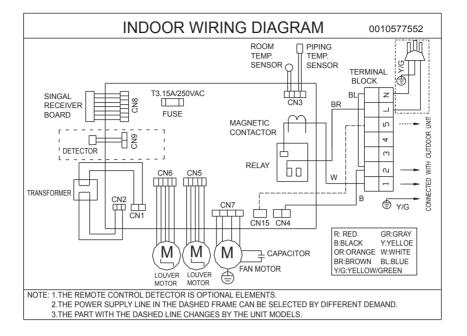
Indoor dip-switch definition:

	BM(1)	BM(2)	BM(3)	BM(4)
Cooling only /	√/ ×	*	*	*
heat pump				
Wired/remote	*	√/×	*	*
control				
Pre-set	*	*	√/ x	*
With/without	*	*	*	√/×
temperature				
compensation				

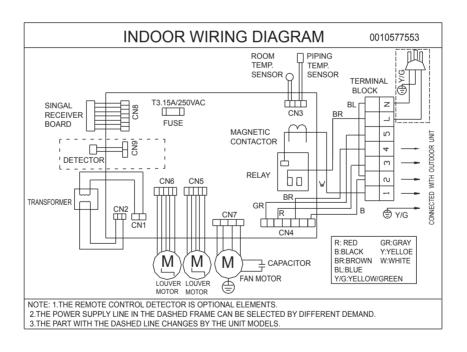
Notes: BM(3) and BM(4) are not available for this models.



HCFU-18CF03

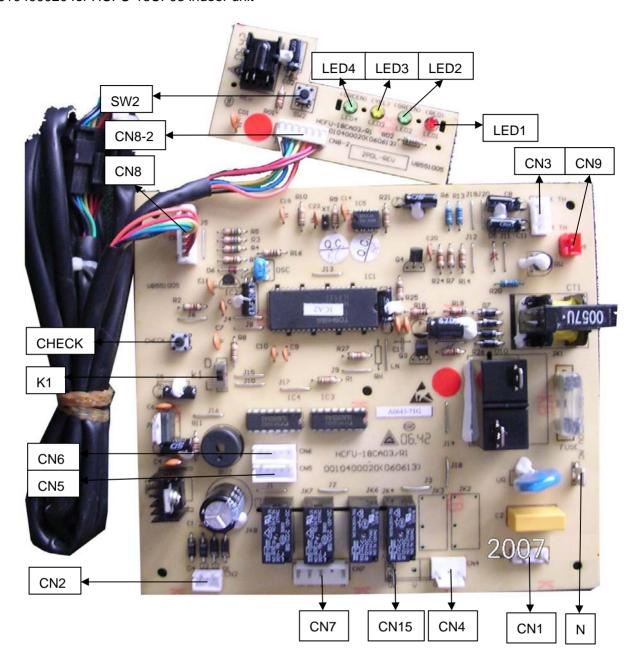


HCFU-18HF03





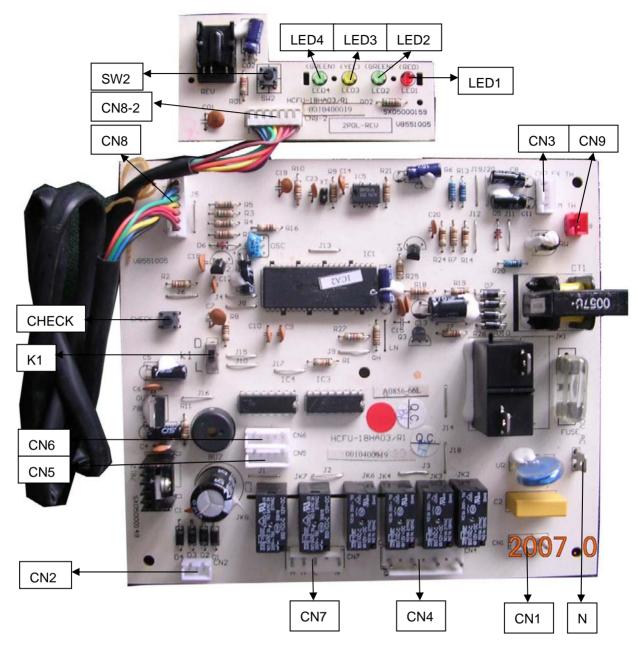
0010400020 for HCFU-18CF03 indoor unit



LED1: power lamp; LED2: running lamp; LED3: timer lamp; LED4: compressor lamp.



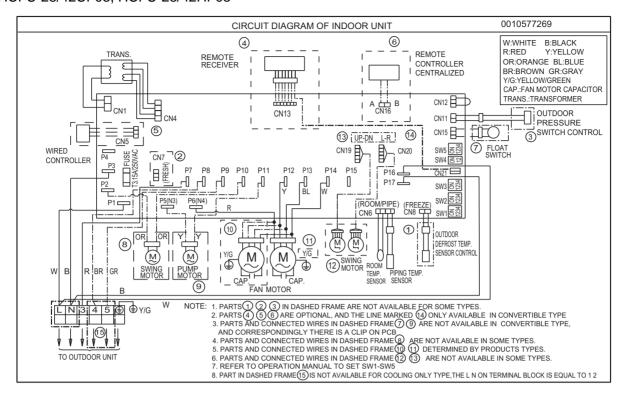
0010400019 for HCFU-18HF03 indoor unit



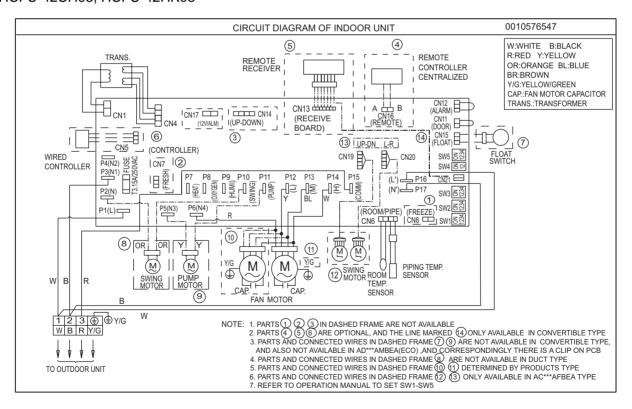
LED1: power lamp; LED2: running lamp; LED3: timer lamp; LED4: compressor lamp.



HCFU-28/42CF03, HCFU-28/42HF03

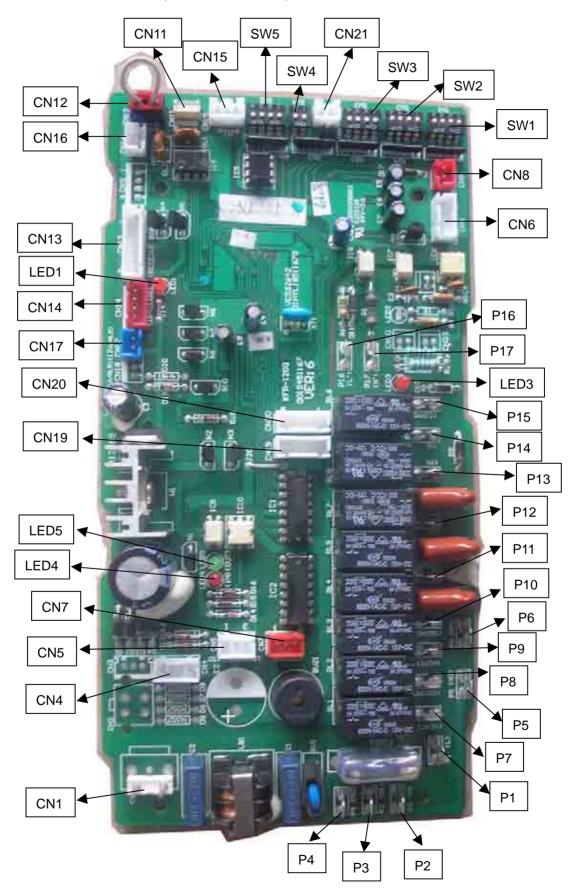


HCFU-42CH03, HCFU-42HK03





0010451167E for HCFU-28/42CF03, HCFU-28/42HF03, HCFU-42CH03 and HCFU-42HK03 indoor unit





Condition for the PCB data:

- 1. Working ambient temperature: $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$, relative humidity: $30\% \sim 95\%$
- 2.Preserved ambient temperature: -20°C ~80°C, relative humidity: 30%~95%
- 3.Power supply:220VAC \ 50/60Hz, voltage range:160V~250V
- 4.Precise of temperature control:±1°C

0010451167E PCB information – port and definition

- P1—connect to external power supply, live line: L (220VAC)
- P2—connect to external power supply, neutral line: N (0VAC)
- P3、4、5、6—control external load, neutral line: N1、N2、N3、N4(0VAC)
- P7—control external load, electrical heat: HEAT (control output 220VAC)
- P8—control external load, health function: OXYGEN (control output 220VAC)
- P9—control external load, humidification: HUMI (control output 220VAC)
- P10—control external load, SWING(control output 220VAC)
- P11—control external load, WATER PUMP(control output 220VAC)
- P12—control external load, indoor fan motor low speed: L(control output 220VAC)
- P13—control external load, indoor fan motor mid speed: M(control output 220VAC)
- P14—control external load, indoor fan motor high speed: H(control output 220VAC)
- P15—communication with fixed frequency single outdoor unit: COMM(0~220VAC)
- P16—input control, signal live line: L'(220VAC)
- P17—input control, signal neutral line: N'(0VAC)
- CN1—input port of transformer (220VAC)
- CN2—input port 1 of transformer (no use)
- CN3—input port 2 of transformer (no use)
- CN4—input port 3 of transformer (1-2, 14VAC, 3-4, 12VAC)
- CN5—input control, connecting port to wired controller: CONTROLLER (three bits: 1. power supply: 12VAC, 2. power supply: 0VAC, 3. communication: COMM.).
- CN6—input control, ambient temp.-coil temp. sensor connecting port: ROOM/PIPE (1-2、ROOM, 3-4、PIPE。)

Indoor ambient temp. sensor: R25=23K Ω +-2.5%, B25/50=4200K+-3%, range: (-40, 80)

Indoor coil temp. sensor: R25=10K Ω +-3%, B25/50=3700K+-3%, range: (-20, 90)

- CN7—control external load, fresh air control: FRESH (1. blank, 2. power supply 0VDC, 3. control output: 12VDC.)
 - CN8—input signal: FREEZE (no use)
 - CN9—input control (no use)
 - CN10—communication with fixed frequency single outdoor unit: (0~12VDC)
 - CN11—input signal, door switch: DOOR (1-2 short circuit is normal, cut off P8 output)
- CN12—input signal, external alarm input: ALARM (1-3 short circuit is normal, if cut off, air conditioner stops work.)

Note: For convertible type, cassette type, duct type units, CN11 and CN12 must be in short circuit, or PCB will display failure information.

- CN13—input signal, wiring port of remote receiver board: RECEIVE BOARD (1. power supply 5VDC, 2. power supply 0VDC, 3. remote signal, 4. signal output of running lamp 0VDC, 5. signal output of timer lamp 0VDC,6. signal output of power lamp 0VDC, 7. signal output of water pump running lamp 0VDC)
- CN14—control external load, auto elevating function (1. signal of door switch close, 2. output of elevating direction control 0VDC, 3. output of elevating power control 0VDC, 4. power supply 12VDC)



CN15—input signal, detecting water level of float switch (1-3 short circuit is normal, cut off shows that level exceeds the limitation). If float switch cuts off or occurs other failure, LED1 will flash 10 times.

CN16—input control, wiring port of central controller: REMOTE (1、RS485-B, 2、RS485-A。)

CN17—output signal, output signal of failure alarm, control external load, 12V/ALM (1. control output 0VDC, 2. power supply 12VDC)

CN18—output signal (no use)

CN19—control external load, swing 1 (1、16VDC, 2、0VDC, 3、0VDC, 4、0VDC, 5、0VDC.).

CN20—control external load, swing 2 (1、16VDC, 2、0VDC, 3、0VDC, 4、0VDC, 5、0VDC.).

CN21—input signal, spring switch, CHECK (1\,\text{input signal of earthing, 2. power supply 0VDC)

CN22—short circuit means selecting single split communication type.(no use)

CN23—short circuit means selecting multi split communication type.(no use)

0010451167E PCB information – function selection (ON is 1, OFF is 0)

The standard condition for PCB in factory

SW1: 4 bits are OFF

SW2: 4 bits are OFF

SW3: 4 bits are ON

SW4: 2 bits are ON

SW5: 4 bits are ON

SW1-SW2: used for indoor unit to set unit address from 1 to 128'

SW3-SW5: used for indoor unit to select different functions.(every dip switches are corresponding to J1-J10.

SW2-4—logistic relationship of control function (door card control and remote/ wired control) 0 means logistic relationship is "and", 1 means the later coming is preferential.

- J1, SW3-1—function selection-control type: 1 means remote control, 0 means wired control.
- J2, SW3-2—function selection-temperature compensation in heating mode: 1means "yes", 0means "no".
- J3, SW3-3—function selection-outdoor communication: 1means "yes", 0means "no". This PCB must be 1.
- J4, SW3-4—function selection-heat pump unit: 1means "heat pump", 0means "cooling only".
- 1/60—test in short circuit, but in operation short circuit mustn't be permitted.
- CHECK—short spring switch control, it also can be used as switch of convertible type except for testing.
- J5, SW4-1—function selection-elevating function: 1means "yes", 0 means "no".
- J6, SW4-2—function selection –health function: 1means common (indoor fan motor running); 0 means special (indoor, outdoor running).
- J7, SW5-1—function selection –swing mode: 1 means common (simultaneous motor), 0 means special (swing motor).
- J8, SW5-2—function selection system combination: 1means fixed frequency single unit, 0 means fixed frequency multi split.
- J9, SW5-3—function selection –group control: 1 stands for the master unit (its address in wired controller is 0), 0 stands for the slave units (the address should be set by the dip switch, their addresses only can be in the range: 1~15)
 - J10, SW5-4—function selection –preset

0010451167E PCB information- control type

Control type selection between remote and wired: select by dip switch J1, SW3-1 (1 means remote control; 0 means wired control.)

For remote control type, please use remote controller YR-H71, and a remote receiver is equipped with indoor unit. For wired control type, wired controller YR-E12 will be used, 3-core shied wire is equipped with



indoor unit.

Door card control: controls ON/OFF, the start up setting will comply with last time request memorized according to condition memorize function. Its difference with emergency switch of convertible type unit lies: the emergency switch control will perform in the condition: 24degrees, auto fan speed in auto mode.

The function combination between door card and remote/wired control type: select by dip switch: SW2-4 (0 means "and", 1 means later coming is preferential.)

Dip switch position in wired control type: Only one indoor unit of all indoor units connected with wired controller is the master unit, whose address is 0, function selection switch (J9, SW5-3) is 1. The others are slave units, and the quantity can be $0\sim15$, whose addresses are $(SW1:1\sim4)$ from $1\sim15$, and cannot repeat.

Wiring request in wired control type: the wired controller ports A-B-C are connected with indoor port CN5 (1-2-3) through 3-core shield wire. Requirements:

- 1. Port A only connects with either of indoor port CN5 (1)
- 2. Port B connects with port CN5 (2) of all indoor units.
- 3. Port C connects with port CN5 (3) of all indoor units.

Dip switch position in central control type: the addresses (SW1:1~4; SW2:1~4) of indoor units connected with central controller can not repeat. In principle, they should be in the order from small to big.

Wiring request in central control type: port A-B is connected with indoor port CN16 (A-B) through 2-core shield wire. Requirements:

- 1. Port A connects with port CN16 (A) of all indoor units.
- 2. Port B connects with port CN16 (B) of all indoor units.

When only use remote control type, please select remote control unit, and install according to installation manual, there is no other special request.

When only use wired control type, please select wired control unit, and install according to installation manual. When control multi indoor units, take care the requirements of dip switch and wiring, there is no other special request.

When only use central control type, please firstly install according to air conditioner requests and set the dipswitch, there is no other special request.

When central control type (128×) and remote control type are used simultaneously, set the dip switch according to central control type, there is no other special request.

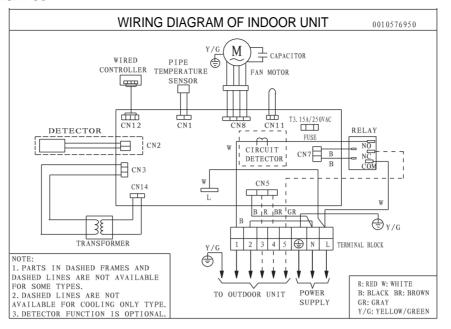
When central control type $(128 \times)$ and wired control type $(16 \times)$ are used simultaneously, max. indoor units sets: 128×16 can be controller. Address setting of central controller can be met firstly, and then modulate the address setting of slave unit wired controlled.

LED in indoor PCB:

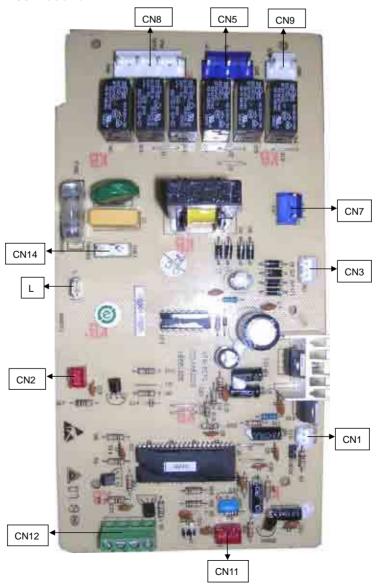
- 1. LED1: is the state lamp for remote receiver as well as failure lamp. If indoor unit is normal, LED1 is on, or if failure occurs, LED1 flashes regularly, and you can adjust failure type according to the flash times.
- 2. LED2: is used for multi split units as communication lamp. If communication between indoor and outdoor is normal, LED2 will be on.
- 3. LED3: is used for single split units as communication lamp. If communication between indoor and outdoor is normal, LED3 will be on.
- 4. LED4、LED5: is the lamp that shows the data receiving or sending between wired controller and PCB, If LED4、LED5 be on in turn, communication between wired controller and PCB is normal.



HDU-18CF03, HDU-18HF03

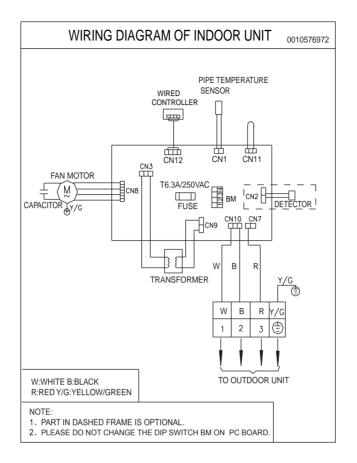


For HDU-18HF03 indoor unit, the PCB code is 0010400662. 0010450010 for HDU-18HF03 indoor unit

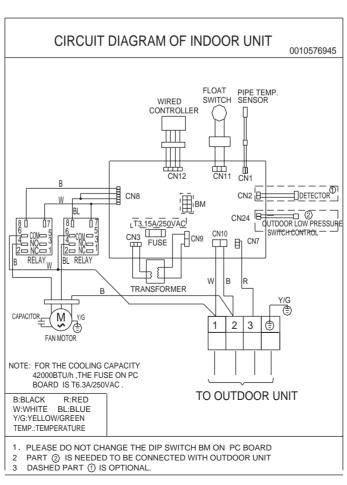




HDU-28CF03

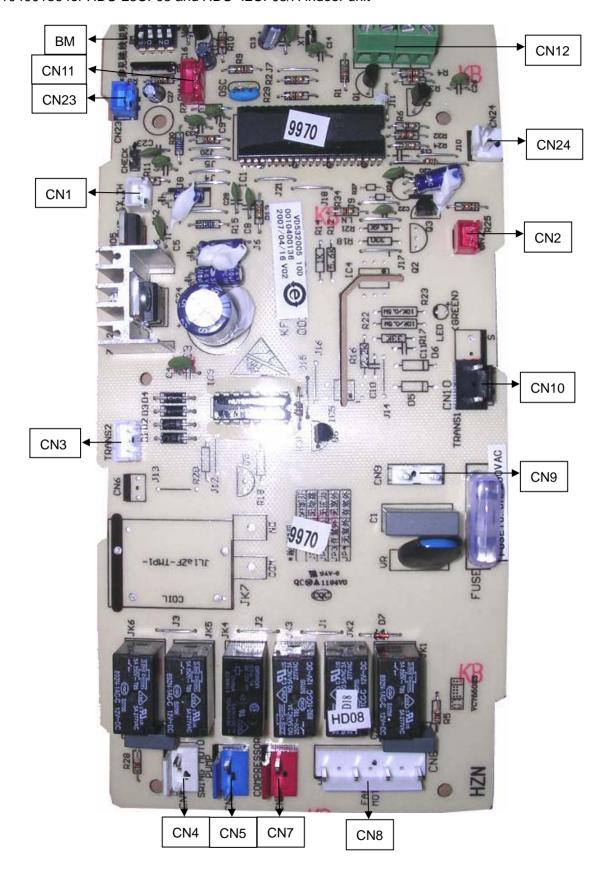


HDU-42CF03/H



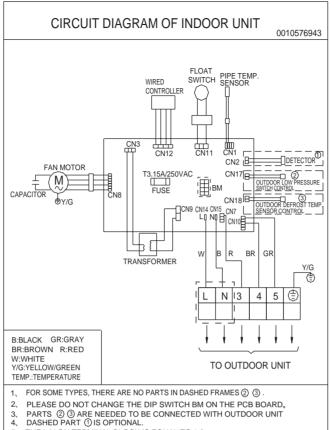


0010400136 for HDU-28CF03 and HDU-42CF03/H indoor unit



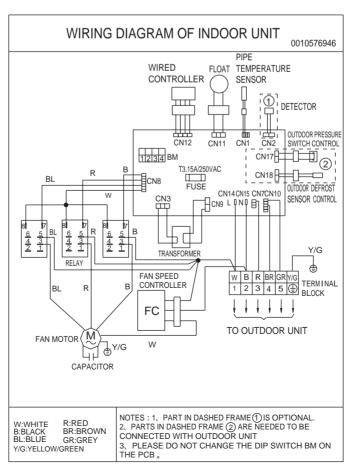


HDU-28HF03



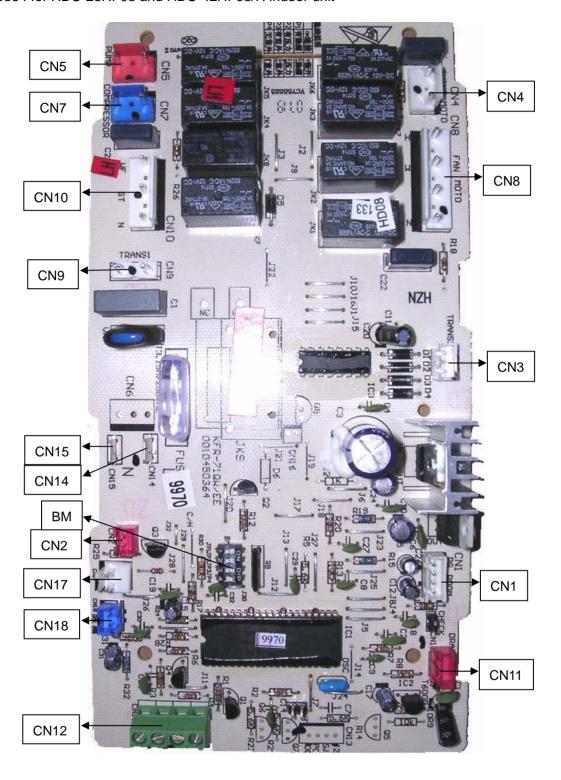
- THE L N ON TERMINAL BLOCK IS EQUAL TO 1 2

HDU-42HF03/H



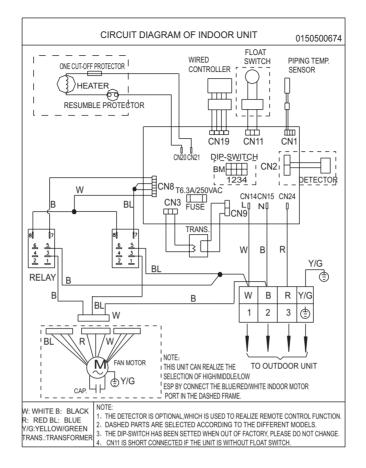


0010450364 for HDU-28HF03 and HDU-42HF03/H indoor unit

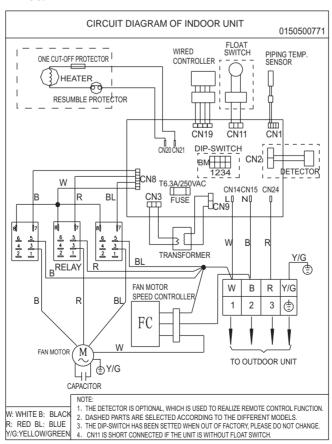




HDU-42CH03/H

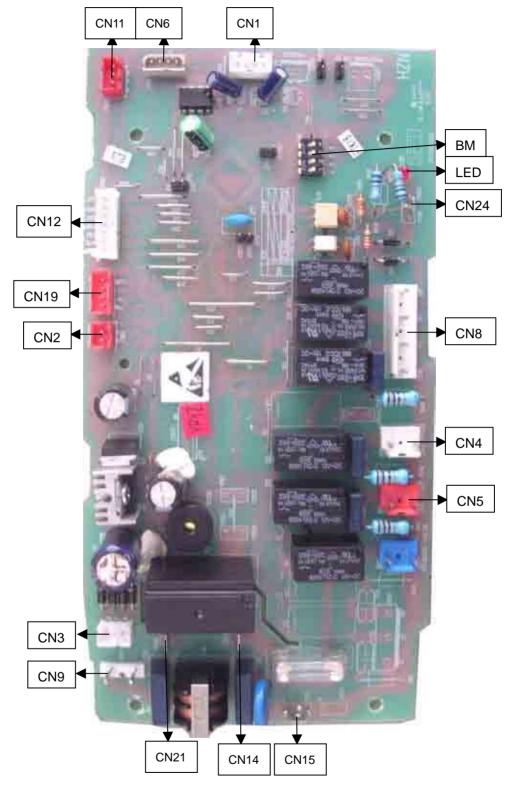


HDU-42CI03/H, HDU-42HK03/H





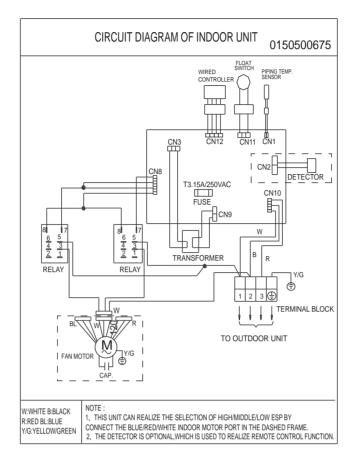
0010452032 for HDU-42CH03/H, HDU-42CI03/H and HDU-42HK03/H indoor unit



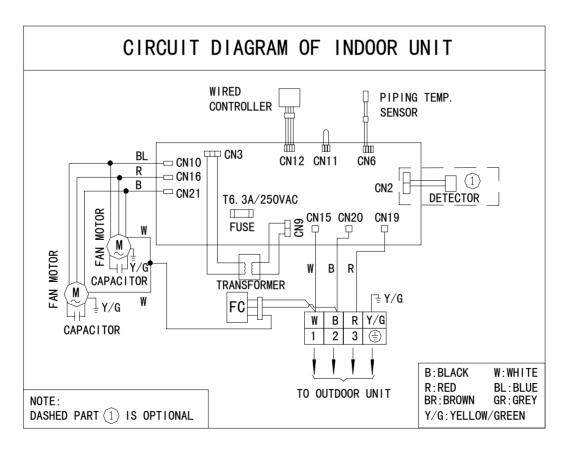
	BM(1)	BM(2)	BM(3)	BM(4)
Cooling only/heat pump	√/×	*	*	*
Wired/remote control	*	√/ x	*	*
Pre-set	*	*	√/×	*
With/without temp. compensation	*	*	*	√/×



HDU-50HT03/H

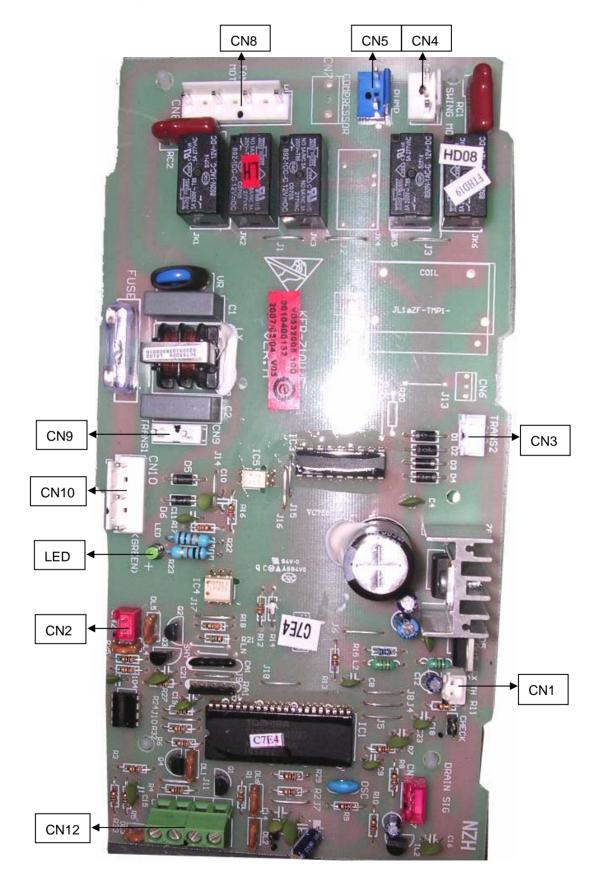


AD96NAHAEA



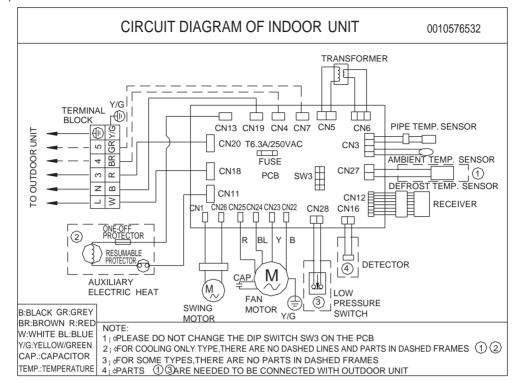


0010400132 for HDU-50HT03/H indoor unit and AD96NAHAEA

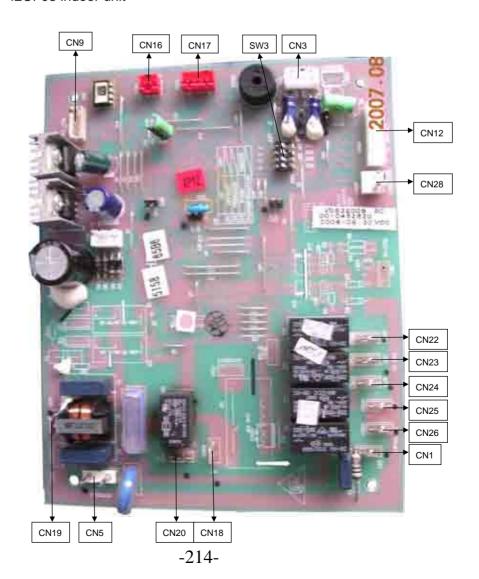




HPU-42CF03, HPU-42HF03

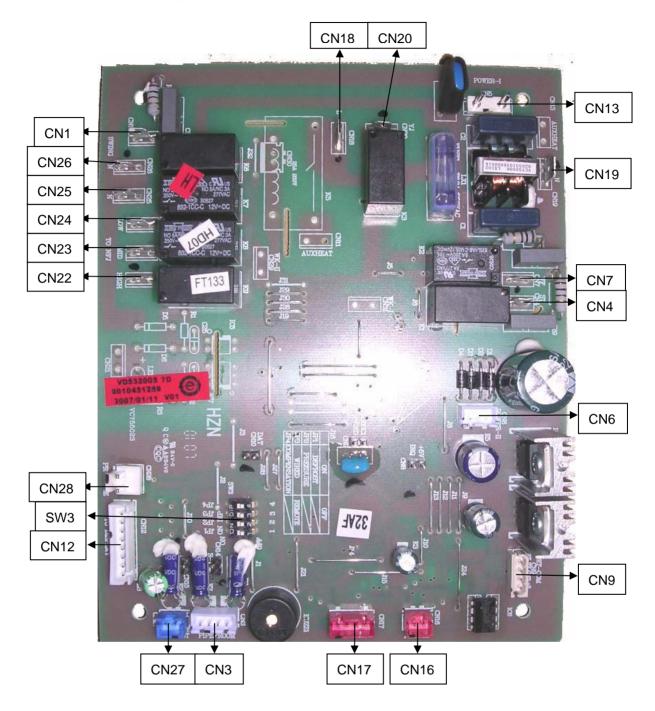


0010452620 for HPU-42CF03 indoor unit





0010451289 for HPU-42HF03 indoor unit

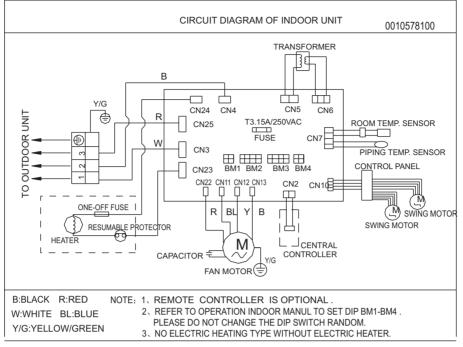


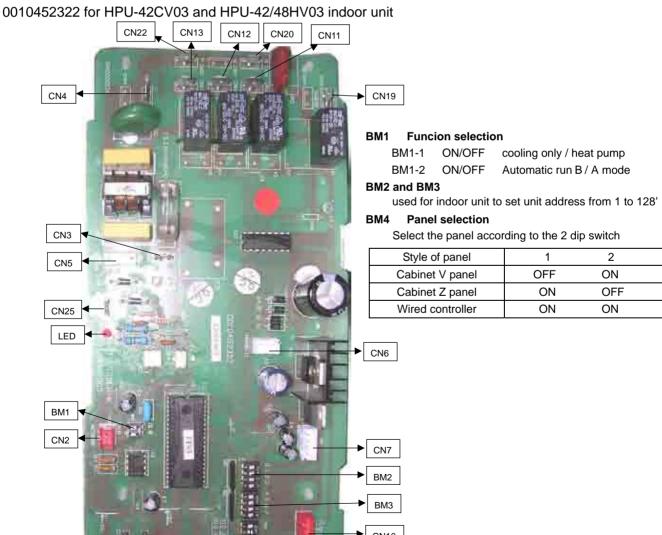
The dip switch definition of 0010452620 and 0010451289 are as following:

	_		. ~	_
	SW3(1)	SW3(2)	SW3(3)	SW3(4)
With/without defrost sensor	√/×	*	*	*
With/without pressure switch	*	√/×	*	*
Wired/remote control	*	*	√/ ×	*
With/without temp. compensation	*	*	*	√/×



HPU-42CV03, HPU-42/48HV03



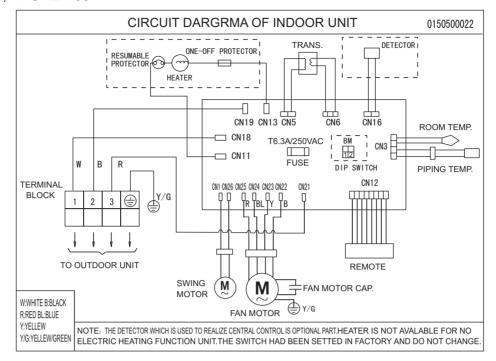


BM4

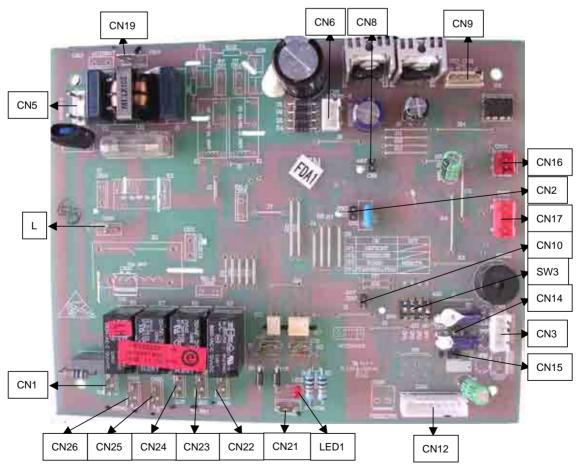
CN10



HPU-42CH03, HPU-42HI03



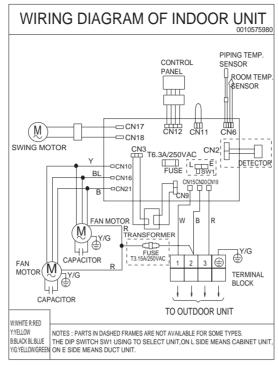
0010451432 for HPU-42CH03 and HPU-42HI03 indoor unit



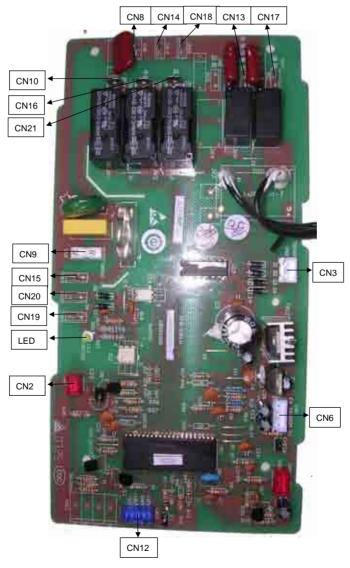
	SW3(1)	SW3(2)	SW3(3)	SW3(4)
Cooling only/heat pump	√/× ` `	*	*	*
Wired/remote control	*	√/ x	*	*
Pre-set	*	*	√/ x	*
With/without temp. compensation	*	*	*	√/ ×



AP96NACAEA



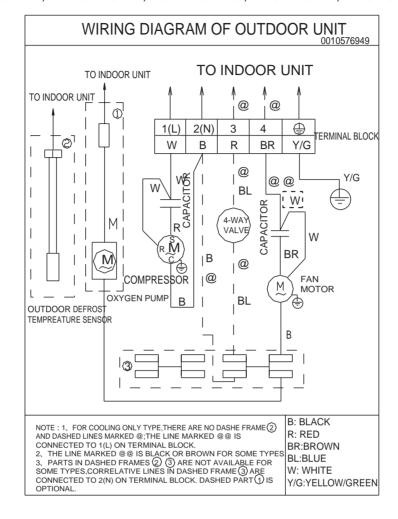
0010452039 for AP96NACAEA



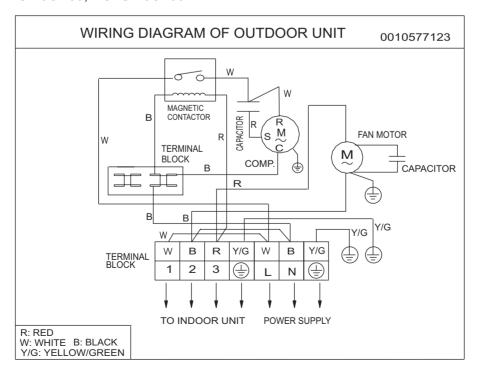


1.2 For outdoor unit

HBU-18CF03, HBU-18HF03, HCFU-18CF03, HCFU-18HF03, HDU-18CF03, HDU-18HF03

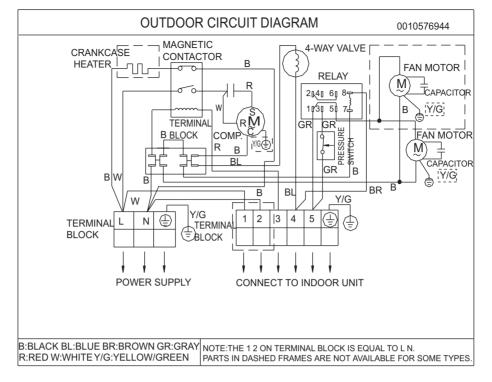


HBU-28CF03, HBU-28CF03, HCFU-28CF03

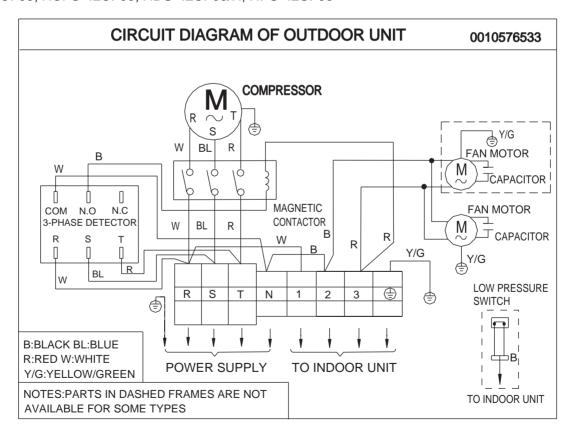




HBU-28HF03, HBU-28HH03, HCFU-28HF03, HDU-28HF03

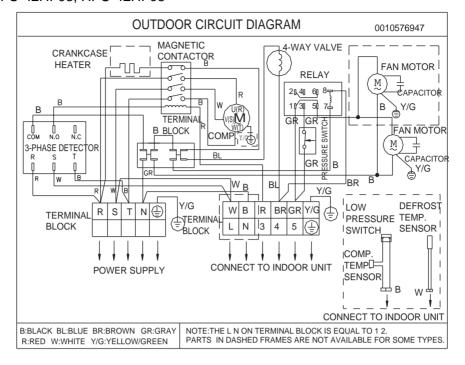


HBU-42CF03, HCFU-42CF03, HDU-42CF03/H, HPU-42CF03

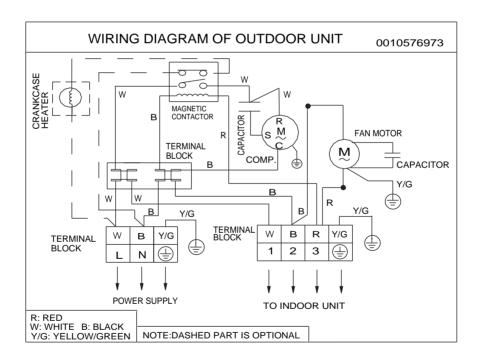




HBU-42HF03, HCFU-42HF03, HPU-42HF03

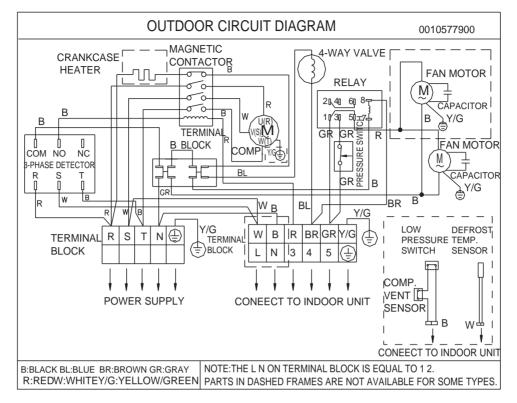


HDU-28CF03



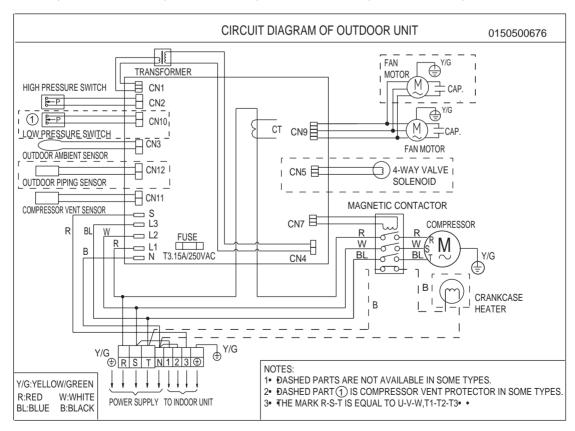


HDU-42HF03/H



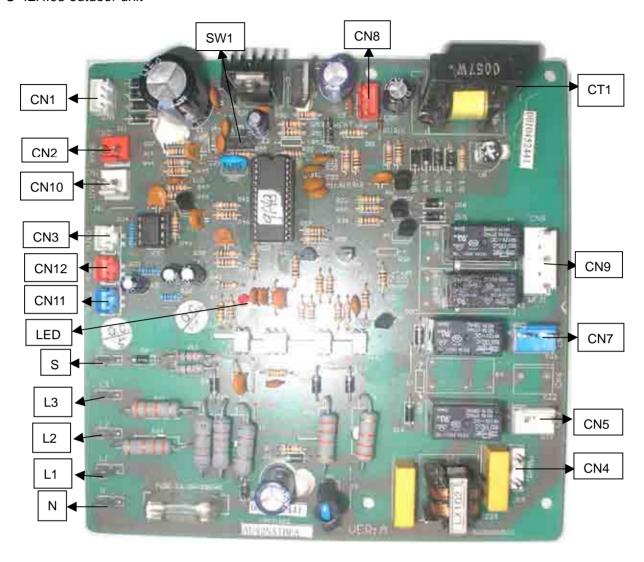
Note: For the above models, there are no outdoor PCB

HBU-42CH03, HBU-42CI03, HBU-42HI03, HCFU-42CH03, HBU-42HK03, HDU-42CH03/H, HDU-42CI03/H HDU-42HK03/H, HDU-50HT03/H, HPU-42CV03, HPU-42/48HV03, HPU-42CH03, HPU-42HI03



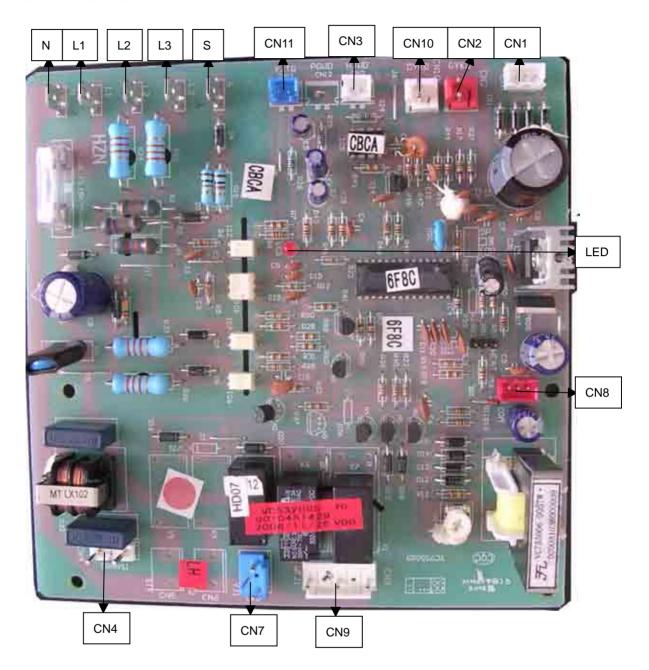


0010452441 for HBU-42HI03, HCFU-42HK03, HDU-42HK03/H, HDU-50HT03/H, HPU-42/42HV03 and HPU-42HI03 outdoor unit



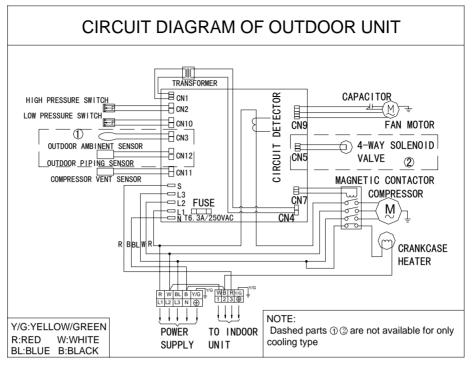


0010451429 for HBU-42CH03, HBU-42CI03, HCFU-42CH03, HDU-42CH03/H, HDU-42CI03/H, HPU-42CV03 and HPU-42CH03 outdoor unit

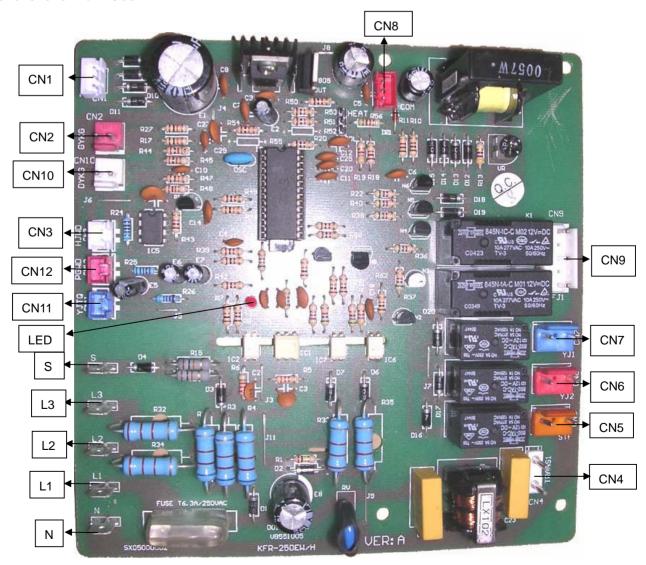




AU96NATAEA



0010452326E for AU96NATAEA





2. Sensor characteristic

Model	Name	Code	Sub-part code	characteristic
	Indoor ambient temp.	001A3900159	004 4 0000000	R25=23KΩ±2.5%
HBU-18CF03	HBU-18CF03 sensor		001A3900003	B25/50=4200K±3%
HBU-18HF03	Indoor coil town concer	001A3900006	004 4 2000004	R25=10KΩ±3%
HBU-28CF03	Indoor coil temp. sensor		001A3900004	B25/50=3700K±3%
HBU-28HF03	Outdoor defeat conser	0040404000	004 4 0000004	R25=10KΩ±3%
	Outdoor defrost sensor	0010401922	001A3900004	B25/50=3700K±3%
HDU-18CF03	1. 1	00440000400	00440000004	R25=10KΩ±3%
HDU-18HF03	Indoor coil temp. sensor	001A3800128	001A3900004	B25/50=3700K±3%
HDU-28CF03	ambient temp. sensor	/	/	/
HDU-28HF03				DOE 40KO : 20/
HDU-42CF03/H	Outdoor defrost sensor	0010401922	001A3900004	R25=10KΩ±3%
HDU-42HF03/H				B25/50=3700K±3%
	Indoor ambient temp.	0040454222	001 1 2000002	R25=23KΩ±2.5%
HBU-28CH03	sensor	0010451323	001A3900003	B25/50=4200K±3%
HBU-20CHU3	la de care di terra	001A3900006	001A3900004	R25=10KΩ±3%
	Indoor coil temp. sensor	001A3900006	001A390004	B25/50=3700K±3%
	Indoor ambient temp. sensor	001A3800127	004 4 2000002	R25=23KΩ±2.5%
			001A3900003	B25/50=4200K±3%
HPU-42CF03	Indoor coil temp. sensor Outdoor defrost sensor	0010401922	001A3900004	R25=10KΩ±3%
HPU-42HF03		0010401922	001A3900004	B25/50=3700K±3%
		0010401922	001A3900004	R25=10KΩ±3%
	Outdoor derrost sensor	0010401922	001A390004	B25/50=3700K±3%
	Indoor ambient temp.	0010451323	001A3900003	R25=23KΩ±2.5%
	sensor	0010431323	001/3900003	B25/50=4200K±3%
HBU-42CF03	Indoor coil temp. sensor	001A3900006	001A3900004	R25=10KΩ±3%
HBU-42HF03	indoor con temp. sensor	001A3900006	001A3900004	B25/50=3700K±3%
	Outdoor defrost sensor	0010401922	001A3900004	R25=10KΩ±3%
	Outdoor derrost sensor	0010401922	001A3900004	B25/50=3700K±3%
	Indoor ambient temp.	001A3900159	001A3900003	R25=23KΩ±2.5%
	sensor	001A3900139	001A3900003	B25/50=4200K±3%
	Indoor coil temp. sensor	004 4 2000000	001A3900004	R25=10KΩ±3%
HBU-42CI03	muoor con temp. sensor	001A3900006	0017390004	B25/50=3700K±3%
HBU-42HI03	Outdoor compressor vent	0010450200	001A3800096	R80=50KΩ±3%
HBU-42CH03	sensor	0010450398	00173000090	B25/80=4450K±3%
1100-4201103	Outdoor defrost sensor	0010451214	001 (3000001	R25=5KΩ±3%
	Outdoor derrost sensor	0010451314	001A3800091	B25/50=3700K±3%
	Outdoor ambient temp.	001A3900110	004 4 2000000	R25=5KΩ±3%
	sensor		001A3800090	B25/50=4200K±3%



	Indoor ambient temp.	001A3800127		R25=23KΩ±2.5%
	sensor		001A3900003	B25/50=4200K±3%
	Indoor coil temp.	0040404000	004 4 2000004	R25=10KΩ±3%
	sensor	0010401922	001A3900004	B25/50=3700K±3%
HPU-42CH03	Outdoor compressor	0010450398	001A3800096	R80=50KΩ±3%
HPU-42HI03	discharge sensor	0010450596	001A3600096	B25/80=4450K±3%
	Outdoor defrost	0010451314	001A3800091	R25=5KΩ±3%
	sensor		001/10000031	B25/50=3700K±3%
	Outdoor ambient	001A3900110	001A3800090	R25=5KΩ±3%
	temp. sensor			B25/50=4200K±3%
	Indoor coil temp.	001A3800128	001A3900004	R25=10KΩ±3%
	sensor	,	,	B25/50=3700K±3%
11511 4001100/11	ambient temp. sensor	/	/	/
HDU-42CH03/H	Outdoor compressor	0010450398	001A3800096	R80=50KΩ±3%
HDU-42CI03/H	discharge sensor			B25/80=4450K±3%
HDU-42HK03/H	Outdoor defrost	0010451314	001A3800091	R25=5KΩ±3%
	sensor Outdoor ambient			B25/50=3700K±3% R25=5KΩ±3%
	temp. sensor	001A3900110	001A3800090	B25/50=4200K±3%
	Indoor ambient temp.	np. 001A3900005		R25=23KΩ±2.5%
	sensor		001A3900003	B25/50=4200K±3%
	Indoor coil temp.			R25=10KΩ±3%
	sensor 001A3900006	001A3900004	B25/50=3700K±3%	
HCFU-42CH03	Outdoor compressor	0010450398		R80=50KΩ±3%
HCFU-42HK03	discharge sensor		001A3800096	B25/80=4450K±3%
	Outdoor defrost	0040454244	001A3800091	R25=5KΩ±3%
	sensor	0010451314		B25/50=3700K±3%
	Outdoor ambient	001A3900110	001A3800090	R25=5KΩ±3%
	temp. sensor	001A3900110	001A3600090	B25/50=4200K±3%
	Indoor ambient temp.	001A3900005	001A3900003	R25=23KΩ±2.5%
HCFU-18CF03	sensor	00171000000	00171000000	B25/50=4200K±3%
HCFU-18HF03	Indoor coil temp.	001A3900006	001A3900004	R25=10KΩ±3%
	sensor			B25/50=3700K±3%
HCFU-28CF03	Indoor coil temp.	001A3900006	001A3900004	R25=10KΩ±3%
HCFU-28HF03	sensor			B25/50=3700K±3%
HBU-28HH03	ambient temp. sensor	001A3900159	001A3900003	R25=23KΩ±2.5%
	La de consentida et te con			B25/50=4200K±3%
	Indoor ambient temp.	001A3900005	001A3900003	R25=23KΩ±2.5%
UCELL 42CE02	sensor			B25/50=4200K±3%
HCFU-42CF03 HCFU-42HF03	Indoor coil temp.	001A3900006	001A3900004	R25=10KΩ±3% B25/50=3700K±3%
1101 0-42111103	sensor Outdoor defrost			R25=10KΩ±3%
	sensor	0010401922	001A3900004	B25/50=3700K±3%
	2611201			Dと3/30=3/00M±3%



	R25=5KΩ±1% B25/50=3450K±1%						
T(°C)	Rnom(KΩ)	T(°C)	Rnom(KΩ)	T(°C)	Rnom(KΩ)	T(°C)	Rnom(KΩ)
-20°C	47.12	1℃	16.55	22℃	5.744	43 ℃	2.339
-19℃	45.17	2℃	15.7	23℃	5.482	44 ℃	2.25
-18℃	43.24	3℃	14.89	24 ℃	5.235	45℃	2.165
-17°C	41.35	4℃	14.13	25 ℃	5	46℃	2.084
-16℃	39.49	5℃	13.41	26 ℃	4.778	47 ℃	2.006
-15℃	37.68	6℃	12.73	27℃	4.567	48℃	1.932
-14℃	35.92	7℃	12.08	28 ℃	4.36	49℃	1.862
-13℃	34.21	8℃	11.47	29℃	4.179	50℃	1.793
-12℃	32.56	9℃	10.9	30℃	3.993	51℃	1.729
-11°C	30.37	10℃	10.35	31℃	3.819	52 ℃	1.667
-10°C	29.44	11℃	9.837	32 ℃	3.657	53 ℃	1.608
-9℃	27.57	12 ℃	9.351	33 ℃	3.514	54 ℃	1.551
-8℃	26.57	13 ℃	8.892	34 ℃	3.368	55 ℃	1.457
-7℃	25.22	14℃	8.458	35 ℃	3.23	56 ℃	1.445
-6℃	23.94	15℃	8.048	36 ℃	3.098	57 ℃	1.395
-5℃	22.72	16℃	7.661	37℃	2.973	58℃	1.347
-4℃	21.55	17 ℃	7.295	38℃	2.845	59℃	1.301
-3℃	20.45	18℃	6.949	39℃	2.741	60℃	1.257
-2℃	19.39	19℃	6.622	40℃	2.633		
-1℃	18.39	20℃	6.313	41 ℃	2.536		
0℃	17.45	21℃	6.021	42 ℃	2.432		



	R25=23KΩ±2.5%						
	B25/50=4200K±3%						
	Rnom(KΩ)						
-20℃	281.34	32 ℃	16.65				
-19℃	263.56	33℃	15.92				
-18℃	247.04	34 ℃	15.22				
-17°C	231.66	35 ℃	14.56				
-16℃	217.35	36 ℃	13.93				
-15°C	204.02	37 ℃	13.34				
-14℃	191.61	38 ℃	12.77				
-13℃	180.04	39℃	12.23				
-12 ℃	169.24	40℃	11.71				
-11℃	159.17	41℃	11.22				
-10℃	149.77	42 ℃	10.76				
-9℃	140.99	43℃	10.31				
-8℃	132.78	44 ℃	9.89				
-7°C	125.11	45℃	9.49				
-6℃	117.93	46℃	9.1				
-5℃	111.22	47 ℃	8.74				
-4°C	104.93	48℃	8.39				
-3℃	99.04	49℃	8.05				
-2 ℃	93.52	50℃	7.73				
-1°C	88.35	51 ℃	7.43				
0℃	83.5	52 ℃	7.14				
1℃	78.94	53℃	6.86				
2℃	74.67	54°C	6.6				
3°C	70.65	55°C	6.34				
			6.1				
4℃	66.88	56℃					
5℃	63.33	57℃	5.87				
6℃	60	58℃	5.65				
7℃	56.86	59℃	5.44				
8℃	53.91	60℃	5.24				
9℃	51.13						
10℃	48.51						
11 ℃	46.04						
12 ℃	43.72						
13℃	41.52						
14℃	39.45						
15℃	37.5						
16℃	35.66						
17℃	33.92						
18℃	32.27						
19℃	30.72						
20℃	29.25						
21 ℃	27.86						
22 ℃	26.54						
23 ℃	25.3						
24 ℃	24.12						
25℃	23						
26°C	21.94						
27°C	20.94						
28℃	19.99						
29℃	19.99						
	18.23						
30℃ 31℃	17.42						
SIC	17.42						

R80=50KΩ±3% B25/80=4450K±3%						
$T(\mathbb{C})$ Rnom(K Ω) $T(\mathbb{C})$ Rnom(K	〈 Ω)					
-30 11600 22 592						
-29 10860 23 553.6	6					
-28 10170 24 536.6	6					
-27 9529 25 511.°	1					
-26 8932 26 486.9	9					
-25 8375 27 464						
-24 7856 28 442. .						
<u>-23</u> 7372 29 421.7						
-22 6920 30 402.°						
-21 6498 31 383.e						
-20 6104 32 366						
<u>-19</u> <u>5736</u> <u>33</u> <u>349.</u>	_					
-18 5392 34 333.s	_					
-17 5071 35 318.4						
<u>-16 4770 36 304.</u>						
-15 4488 37 290. §						
-14 4225 38 277.0	_					
<u>-13 3978 39 265.3</u>						
<u>-12 3747 40 253.6</u>	_					
-11 3531 41 242.5	5					
-10 3328 42 232						
<u>-9</u> 3138 43 221.9	9					
-8 2960 44 212.3						
-7 2793 45 203.2	2					
-6 <u>2636</u> 46 194.5	5					
-5 2489 47 186. 3	3					
-4 2351 48 178.4	4					
-3 2221 49 170.9	9					
-2 2099 50 163.T	7					
-1 1984 51 155.S	9					
0 1877 52 150.4	4					
1 1775 53 144.2	2					
2 1680 54 138.3	3					
3 1590 55 132.7	7					
4 1506 56 127.3	3					
5 1426 57 122.						
5 1426 57 122.	2					
5 1426 57 122. 6 1351 58 117.	2 5					
5 1426 57 122. 6 1351 58 117. 7 1280 59 112.	2 5					
5 1426 57 122. 6 1351 58 117. 7 1280 59 112. 8 1214 60 108	2 5 8					
5 1426 57 122. 6 1351 58 117. 7 1280 59 112. 8 1214 60 108 9 1151 61 103.8	2 5 8					
5 1426 57 122. 6 1351 58 117. 7 1280 59 112. 8 1214 60 108 9 1151 61 103.8 10 1092 62 99.68	2 5 8					
5 1426 57 122. 6 1351 58 117.2 7 1280 59 112.9 8 1214 60 108 9 1151 61 103.8 10 1092 62 99.68 11 1036	2 5 8					
5 1426 57 122. 6 1351 58 117. 7 1280 59 112. 8 1214 60 108 9 1151 61 103.8 10 1092 62 99.68 11 1036 12 983.2	2 5 8					
5 1426 57 122. 6 1351 58 117. 7 1280 59 112. 8 1214 60 108 9 1151 61 103.6 10 1092 62 99.66 11 1036 12 983.2 13 933.4	2 5 8					
5 1426 57 122. 6 1351 58 117.2 7 1280 59 112.9 8 1214 60 108 9 1151 61 103.8 10 1092 62 99.68 11 1036 12 983.2 13 933.4 14 886.4	2 5 8					
5 1426 57 122. 6 1351 58 117.2 7 1280 59 112.9 8 1214 60 108 9 1151 61 103.8 10 1092 62 99.68 11 1036 12 983.2 13 933.4 14 886.4 15 841.9	2 5 8					
5 1426 57 122. 6 1351 58 117. 7 1280 59 112. 8 1214 60 108 9 1151 61 103.8 10 1092 62 99.68 11 1036 12 983.2 13 933.4 14 886.4 15 841.9 16 800	2 5 8					
5 1426 57 122. 6 1351 58 117.2 7 1280 59 112.5 8 1214 60 108 9 1151 61 103.6 10 1092 62 99.66 11 1036 12 983.2 13 933.4 14 886.4 15 841.9 16 800 17 760.8	2 5 8					

R25=10KΩ±3%						
B25/50=3700K±3%						
	Rnom(KΩ)					
-20	90.79	32	7.52			
-19	85.72	33	7.23			
-18	80.96	34	6.95			
-17	76.51	35	6.68			
-16	72.33	36	5.43			
-15	68.41	37	5.6			
-14	64.73	38	5.59			
-13	61.27	39	5.73			
-12	58.02	40	5.52			
-11	54.97	41	5.32			
-10	52.1	42	5.12			
-9	49.4	43	4.93			
-8	46.86	44	4.9			
-7	44.46	45	4.58			
-6	42.21	46	4.42			
-5	40.08	47	4.26			
-4	38.08	48	4.11			
-3	36.19	49	3.97			
-2	34.41	50	3.83			
-1	32.73	51	3.7			
0	31.14	52	3.57			
1	29.64	53	3.45			
2	28.22	54	3.33			
3	26.4	55	3.22			
4	25.61	56	3.11			
5	24.41	57	3.11			
6	23.27	58	2.9			
7	22.2	59	2.81			
8	21.18	60	2.72			
9	20.21	61	2.63			
10	19.3	62	2.54			
11	18.43	63	2.49			
12	17.61	64	2.38			
13	16.83	65	2.3			
14	16.09	66	2.23			
15	15.38	67	2.16			
16	14.71	68	2.09			
17	14.08	69	2.03			
18	13.48	70	1.96			
19	12.9	71	1.9			
20	12.36	72	1.85			
21	11.84	73	1.79			
22	11.34	74	1.73			
23	10.87	75	1.68			
24	10.43	76	1.63			
25	10	77	1.58			
26	9.59	78	1.54			
27	9.21	79	1.49			
28	8.84	80	1.45			
29	8.48					
30	8.15					
31	7.83]				

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3. Electric control functions

3.1 For indoor unit

1. Communication control

- 1.1 Remote receive function, with remote controller YR-H71.
- 1.2 Long-distance communication, the long-distance control function is pre-setted.
- 1.3 Wired controller communication, the wired controller can be used for communication by dip-switch selection. The display board is not available when use wired controller.

Select one control type between wired and remote control, long-distance control can be used with wire/remote control.

2. Function description

- 2.1 The running mode includes AUTO, COOL, DRY, FAN and HEAT; can set the compulsory cooling function; AUTO/HIGH/LOW 3-speed for indoor motor; can set the TIMER ON,TIMER OFF, TIMER ON/OFF and SLEEP function; auto-check water level and control the water drainage of water pump; the swing is controlled by stepping motor; 3-minute protection for compressor; anti-overload protection, anti-freezed protection, temperature cutoff protection and bad-sensor protection; communication failure detect function; check indoor ambient temperature and indoor coil temperature; can be controlled by central controller.
- 2.2 LED indication: when the unit is switched on by the controller, the POWER LED will be ON, when being switched off, the POWER LED will be OFF. When the compressor is running, the compressor LED will be on; when it stops, this LED will be off. If the controller is in TIMER and SLEEP mode, the TIMER LED will be off.
- 2.3 Temperature compensation 4°C control: select by the dip switch on indoor PCB.
- 2.4 There is set temperature in AUTO mode as default.
- 2.5 Tr stands for room temperature; Ts stands for set temperature; Tg stands for indoor coil temperature; Tc stands for defrosting temperature; t stands for compensation temperature; Δ T stands for temperature difference.
- 2.6 \triangle T=Tr-Ts+t (t=0 in cooling mode).
- 2.7 \triangle T=Ts-Tr+t (t=compensation value, with compensation in heating mode; t=0, without compensation in heating mode).

3. Mode control

3.1 Indoor AUTO FAN control

- 3.1.1 If the unit enters AUTO FAN for the first time, when \triangle T>2, select high speed; when \triangle T \le 0, select low speed; or it will select med speed; when thermostat is OFF, fan will be low speed. (the conversion temperature difference is 1 degree).
- 3.1.2 If the present fan speed is AUTO HIGH, when \triangle T < 2, fan speed will change to AUTO MED.
- 3.1.3 If the present fan speed is AUTO MED, when \triangle T<0, fan speed will change to AUTO LOW; when \triangle T>3, fan speed will change to AUTO HIGH.
- 3.1.4 If the present fan speed is AUTO LOW, when \triangle T>1, fan speed will chenge to AUTO MED.
- 3.1.5 Fan speed conversion in AUTO FAN mode: the conversion will delay for 3 minutes from HIGH to LOW, and no delay from LOW to HIGH.
- 3.1.6 When the fan speed is HIGH/LOW/MED, on the condition that the protection does not act, the unit will run at the set fan speed; when the protection acts, for the sake of the normal operation, the fan speed will be forced to conversion; in Dry mode, fan motor will be changed as request.

3.2 AUTO mode control

3.2.1 When entering AUTO for the first time, the unit will select the running mode due to the below conditions, then perform the selected mode.



Tr<Ts-3℃ select HEAT or FAN mode

- **3.2.2** After entering the AUTO mode, the mode can change over among COOL, HEAT or FAN modes according to the indoor ambient temperature (conversion temperature difference is $\pm 3^{\circ}$ C).
- **3.2.3** If the unit is in COOL mode, when it arrives compressor-stop temperature, the compressor will stop; after compressor stops for 15 minutes, the unit will check the room temperature, if Tr<Ts-3°C, the unit will enter HEAT or FAN mode, or the unit will still be in COOL mode;
- **3.2.4** For the heat pump unit, if the unit is in HEAT mode at present, when it arrives compressor-stop temperature, the compressor will stop; after the compressor stops for 15 minutes, the unit will check the room temperature, if $Tr > Ts + 3^{\circ}C$, the unit will enter COOL mode, or it will still be in HEAT mode.
- **3.2.5** For cooling only unit, if the unit is at FAN mode, if Tr>Ts+3℃, the unit will enter COOL mode.
- **3.2.6** When the unit is in HEAT mode, if indoor heat exchanger temperature rises up to over 63° C, the unit will change into COOL mode. And within 1 hour, the heat exchanger temperature will not be limited, the heating operation will stop temporarily. 1 hour later, the unit will select the proper mode due to the above condition.

3.3 COOL mode control

- **3.3.1** 4-way valve being powered off, compressor run/stop will depends on the temperature difference between the room temperature at present and the set temperature.
- **3.3.2** In cooling mode, every time the compressor starts up(thermostat ON), within 6 minutes, the compressor will not be limited by the temperature sensor, but the set temperature change, shutoff signal and protection action will not be limited by 6-minute protection, and the compressor can stop immediately.
- **3.3.3** $\triangle T \ge 1$ compressor will run;
 - $\Delta T \leq -1$ compressor will stop;
 - -1< ∆ T<1 compressor will stay in original state
- 3.3.4 Anti-freezed protection (invalid in compulsory operation, trial running, heating mode)

Indoor coil temperature $Tg \ge 15^{\circ}C$, outdoor motor run in compulsory HIGH and resume to normal HIGH when $Tg < 13^{\circ}C$. Indoor coil temperature $Tg < 5^{\circ}C$, outdoor motor run in compulsory LOW and resume to normal HIGH when $Tg > 7^{\circ}C$. Outdoor motor run in normal HIGH when $5^{\circ}C \le Tg < 15^{\circ}C$.

When the unit has run for over 6 minutes after compressor starts up, if indoor coil temperature $Tg<1^{\circ}C$ and lasts for 1 minute, the compressor and the outdoor motor will stop, and the unit will change to FAN mode; 9 minutes later after compressor stops and when indoor coil temperature rises to $10^{\circ}C$, the unit will resume to COOL mode, the compressor and the outdoor motor will run again.

3.3.5 Temperature cutoff protection

In cooling mode, the unit will check indoor coil temperature every time the compressor start and has run for 5 minutes, when indoor coil temperature Tg>Tr+5, the unit will stop and 3 minutes later restart up; if the temperature cutoff occurs for 3 times continuously, the unit will stop and alarm.

3.4 DRY mode control

- **3.4.1** When the uint enters DRY mode for the first time, the compressor, outdoor motor and indoor motor will perform according to the below conditions:
- Δ T>2, the compressor and the outdoor motor will run continuously, indoor motor will run at the set speed, this area is defined as Area A;
- $0 \le \triangle T \le 2$, the compressor and the outdoor motor will always run for 10 minutes and then stop for 6 minutes, indoor motor will be LOW speed, this area is defined as Area B;
- Δ T<0, the compressor and the outdoor motor will stop, indoor motor will run at Low speed, this area is defined as Area C.
- 3.4.2 After the unit is running in DRY mode, the system will change over among Area A, Area B, and



Area C (the conversion temperature difference $\pm 1^{\circ}$ C)

If the system is in Area A, when $\triangle T < 1$, change to Area B;

If the system is in Area C, when \triangle T>1, change to Area B;

If the system is in Area B, when \triangle T>3, change to Area A;

When $\Delta T < -1$, change to Area C.

3.5 FAN mode control

The compressor and the outdoor motor will stop running, indoor motor can be set at high/med/low speed, the fan blade can swing or stay at one position. In this mode, you can set the TIMER and SLEEP function.

3.6 HEAT mode control

3.6.1 4-way valve control

- a. 4-way valve being electrified after compressor has started for 3 seconds when heating for the first time, then the 4-way valve will be electrified before compressor start;
- b. Only in cooling(not heating) mode, 4-way valve and compressor will power off at the same time, the 4-way valve keeps being powered when shutoff, thermostat OFF and compressor stop.

Note: 4-way valve control is realized by outdoor unit for the unit with outdoor PCB, not concurrent completely.

- **3.6.2** In heating mode, for every time the compressor startup (thermostat ON), within 6 minutes, the 4-way valve will not be limited by the temperature sensor, but for the set temperature change, shutoff signal and the protection, the compressor can stop immediately without 6-minute limitation.
- **3.6.3** $\triangle T \ge 1$ compressor running, indoor motor runs at anti-cold air mode;
 - △ T≤-1 compressor stops, indoor motor runs at blowing remaining heat mode;
 - -1< ∆ T<1 compressor retains original state

3.6.4 Overheat protection

Indoor coil temperature Tg>56°C, outdoor motor run in compulsory LOW and resume to normal HIGH when Tg<54°C. Indoor coil temperature Tg<40°C, outdoor motor run in compulsory HIGH and resume to normal HIGH when Tg>42°C. Outdoor motor run in HIGH(normal state) when 40°C \leq Tg<56°C.

In heating mode, compressor has started up and indoor motor has run for over 30 seconds, if indoor coil temperature $Tg>60^{\circ}C$, outdoor motor will stop; if $Tg<56^{\circ}C$, and outdoor motor has stop for 45 seconds, outdoor motor will run again; if $Tg>68^{\circ}C$, the compressor will stop and indoor motor will run in thermostat OFF. After the compressor stops for 3 minutes and Tg reduces to $48^{\circ}C$, the unit will resume to heating mode, and the compressor and the outdoor motor will run again.

3.6.5 Temperature cutoff protection

In heating mode (besides the defrosting), the unit will check indoor coil temperature every time the compressor has run for 5 minutes, when indoor coil temperature Tg<Tr-5, the unit will stop and 3 minutes later restart up; if the temperature cutoff occurs for 3 times continuously, the unit will stop and alarm(not check in defrost and within 3 minutes after defrost).

3.6.6 Anti-cold air function in heating mode

After entering heating mode, or last defrosting is over, the compressor will start up, if $Tg < 28^{\circ}C(HW_D2)$, indoor motor will stop; if $38^{\circ}C(HW_D1) > Tg > 28^{\circ}C(HW_D2)$, indoor motor will run at low speed; if $Tg > 38^{\circ}C(HW_D1)$ or the compressor has run for over 4 minutes, indoor motor will run at the set speed; once the motor has started up, it will not stop because of Tg reduction.

3.6.7 Blowing remaining heat function

In heating mode, the thermostat is OFF, the compressor stops, indoor motor will run at low speed until Tg $<28^{\circ}C$ (HW_D3) and has run for 50 seconds at least. If Tg always over $28^{\circ}C$ (HW_D3), compressor will stop after running for at max. 3 minutes.



3.6.8 Note: in heating mode, "the compressor stops----indoor motor delays to stop" adjust if the pipe blows remaining heat; "the compressor startup----indoor motor delays to start up" adjust if the pipe is anti-cold air; in other conditions, the compressor and the indoor motor are allowable not to be in company. In cooling mode, the motor will run according to the control, not together with the compressor.

3.6.9 Defrosting function in heating mode

In defrosting and when the compressor resumes to run for 3 minutes after defrosting is over, the unit will not adjust the sensor failure.

Manual defrost:

In heating mode, the set temperature 30°C and in high speed, in 5 seconds, press SLEEP button 6 times continuously, then the buzzer will sound 3 times, you can enter the manual defrosting. Send manual defrost to outdoor unit, the indoor unit will control accordingly after received the outdoor defrost signal, the procedure is as the same as the auto defrost; the quit is controlled by outdoor unit.

Auto defrost:

For the unit with outdoor PCB, please refer to the outdoor control functions.

For the unit with auxiliary electric heating function:

- a. If the auxiliary electric heating function is working when the defrosting condition is met, please stop electric heater firstly, 20 seconds later, defrosting can begin;
- b. After defrosting, the unit will adjust the working state of electric heater according to the setting before defrosting.
- **3.6.10** Auxiliary electric heating function (valid in heating mode or heating state in AUTO mode)

Enter condition: 1) △ T>1 2) Thermostat ON and running for 1 minute 3) Tr<25℃

- 4) Indoor motor running 5) Electric heating function start signal available
- 6) The system working in heating mode or in heating state of AUTO mode

If the above conditions can all be met, the electric heating function will work.

Quit condition: 1) △T≤1 2) Thermostat OFF 3) Tr>26°C 4) Indoor motor stops

- 5) Electric heating function start signal not available 6) The system in non-heating operation If one of the above conditions can be met, the electric heater will stop.
- 3.8 Indoor motor compulsory speed control in heating mode: if indoor coil temperature Tg>56 $^{\circ}$ C, indoor motor LOW speed invalid, change to MIDDLE speed automatically; when Tg>60 $^{\circ}$ C, indoor motor MIDDLE speed invalid, change to HIGH speed automatically; when Tg below 52 $^{\circ}$ C, resume the original fan speed, outdoor MCU will work in overheat protection due to the temperature value.

3.7 Special functions

3.7.1 CLOCK setting and TIMER function

The unit can set 24-hour TIMER ON/OFF, and the min. unit is 1 minute(the min. unit of set time is concerned with remote controller), after being set, the TIMER lamp of indoor will be on, and after the timer is over, the TIMER lamp will be off.

TIMER ON: RUN LED is off, compressor LED is off, and TIMER LED is on, the unit is in stop state. When timer is over, the unit begins to run, and the timer LED is off. The unit operation begins from receiving the timer signal for the last time. The SLEEP function only can be set before the TIMER ON begins.

TIMER OFF: the unit running, the TIMER LED on, while the timer is over, TIMER LED off, the unit will stop, the sleep can be set, the sleep time will replace the original time of TIMER ON/OFF.

TIMER ON/OFF set at the same time: when the timer on/off is set, the timer LED will be off; the sleep function can be set, the sleep time will replace the original time of TIMER ON/OFF.

3.7.2 SLEEP function (energy saving function at night)

3.7.2.1 Standard sleep function in cooling or dry mode, after running at SLEEP mode for 1 hour, the set temperature will rise 1° C, another 1 hour later, the set temperature will rise another 1° C; the unit



continues running for 6 hours, then the unit will stop.

- 3.7.2.2 Standard sleep function in heating mode, after running at SLEEP mode for 1 hour, the set temperature reduces 2° C, another 1 hour later, the set temperature will reduce 2° C, and another 3 hours later, the set temperature rises 1° C; the unit continues running for 3 hours, then the unit will stop.
- 3.7.2.3 Non-standard SLEEP function: the sleep function can realize 1~8 hours sleep mode when being combined with the TIMER function.
- 1) When in Auto mode, the unit will make SLEEP operation due to the setting.
- 2) After setting SLEEP function, the clock can not be adjusted.
- 3) If sleep time is no more than 8 hours, when the time arrives, the unit wil shut off.
- 4) If sleep function is set after setting TIMER OFF function, the unit will execute as the SLEEP function.
- 5) If SLEEP function is set, the TIMER function can not be set.
- 6) If sleep function is set after setting TIMER ON function, the sleep function only can be set befroe the TIMER ON time arrives.
- 7) After setting sleep function, press CLOCK button to check the clock; press TEMP button to display the set temperature, and press again to change the set temperature.

3.7.3 Emergency operation

Press emergency button for over 1 second continuously, when loosing it, the buzzer will sound once. Press and will enter emergency operation.

Emergency operation: AUTO cooling state, the set temperature 24°C, indoor motor at high speed, not adjusting the temperature sensor abnormal and the protection, the thermostat ON, 3 minutes later, the compressor starts up, and another 3 minutes later, quit the trial running and enter the normal operation as the setting(resume temperature sensor and protection); Press again, enter the shutoff state.

3.7.4 Compulsory cooling operation

In OFF state, press compulsory button for over 10 seconds continuously, loose it and the buzzer will sound twice, then the unit enters the compulsory cooling operation, or after the panel receives the compulsory cooling signal from wired controller, the unit enters the compulsory cooling state, there is no compressor 3-minute protection, the unit will run in cooling mode, and indoor/outdoor motors are in high speed for 5 minutes; in the 5 minutes, the system will not adjust the protection and not be limited by the ambient temperature, 5 minutes later, the unit will enter the normal state. In the compulsory cooling state, you can press any button to quit the state.

- 3.7.5 Water level inspection and water pump control
- 1) In COOL (including cooling state of AUTO mode and the compulsory cooling) and DRY mode, as long as the compressor runs, water pump will work; and once the compressor stops, water pump will stop 5 minutes later;
- 2) In standby state of cooling mode, heating mode and fan mode, after water tank is full, the float switch will disconnect, if the controller detects this signal for 2 seconds, the water pump will begin to work. After the float resets, water pump will continue working and stops 5 minutes later;
- 3) If the water-full signal is detected for over 5 minutes, the compressor will stop; water pump will work for 5 minutes and stop for 5 minutes, then repeat as a cycle, until the float resets, the water pump will stop 5 minutes later; if water pump has repeated for 4 cycles and the float can not reset, and the unit will alarm water drainage abnormal, and the water pump will continue the cycle.

3.7.6 Time shorting function

If the time shorting port is in short circuit for 2 seconds after conditioner being electrified, the buzzer will sound once and enter time shorting operation, the unit will perform a 1/60 time shorting control.

3.7.7 Auto-restart function

In 5 seconds press the SLEEP button for 10 times, the buzzer sounds 4 times, that is setted as



auto-restart mode, if shutoff and power again, the system will run in the original state before been shuttoff. The following information will be memorized: ON/OFF, running mode (AUTO, HEAT, COOL, DRY, FAN), fan speed (AUTO, MANUAL(HIGH, MED, LOW)), the set temperature (16°C-30°C) and HEALTH, while the louver position, TIMER, SLEEP and CLOCK will not be memorized. Press SLEEP button 10 times again, the buzzer will sound 2 times and auto-restart function is cancelled.

3.7.8 Auto check function

Short connect the emergency switch before being electrifed, after being electrified, 10 seconds later, it will enter auto-check circuit. Before auto-check, please ensure the input values (sensor, pressure switch) normal, or the buzzer will sound 5 times to show there is abnormal; all the ports will output as the following sequence: run lamp-timer lamp-electric heater-water pump/pump lamp-compressor/compressor lamp-(outdoor motor-4-way valve) —HIGH speed-MED speed-LOW speed-swing-HEALTH; after the auto-check is finished, the buzzer sounds once.

3.8 System protection

3.8.1 3-minute protection for compressor startup

After the compressor stops, at least 3 minutes later, the compressor can restart up; if the unit is powered off in running, after being electrified, 3 minutes later, the compressor can restart up. Being electrified for the first time, there is 3-minute delay protection.

3.8.2 Anti-current rush

2 seconds later after compressor is running, outdoor motor can work.

3.8.3 Sensor failure

Indoor ambient temperature sensor: Mainboard checks that the sensor is in open circuit, short circuit or close to short circuit for 2 minutes continuously, the mainboard will confirm that sensor is failure, the system will stop running, alarm occurs; If the signal is resumed, the system will resume automatically. Indoor coil temperature sensor: Mainboard checks that the sensor is in open circuit, short circuit or close to short circuit for 2 minutes continuously, the mainboard will confirm that sensor is failure, the system will stop running, alarm occurs; If the signal is resumed, the system will resume automatically. Shield indoor coil temperature sensor failure in 3 minutes before compressor start and dring defrost procedure(include defrost finish and quit).



3.2 For outdoor unit

1. Outdoor motor control

When the system does not occur overcooling, overheating, and over current protections, the outdoor motor will occur the below changes according to the outdoor ambient temperature and indoor coil temperature.

1.1 General information

Outdoor motor is 2-speed type: high, low and stop.

The fan speed will change unless every step has been run for 45 seconds.

1.2 Cooling mode

- 1.2.1 Indoor coil temp. ≥15°C, outdoor motor runs at high speed.
- 1.2.2 Indoor coil temp. <5°C, outdoor motor runs at low speed.
- 1.2.3 5 $^{\circ}$ C \leq Indoor coil temp. \leq 15 $^{\circ}$ C, outdoor motor will change due to the outdoor ambient temp.

Outdoor ambient temp. $>28^{\circ}$ C, enter high speed; outdoor ambient temp. $<26^{\circ}$ C, enter high speed; $26 \le 0$ outdoor ambient temp. $\le 28^{\circ}$ C, keep the current speed.

In running, the system will be controlled as 2° C temperature tolerance; if outdoor ambient temp. $< 26^{\circ}$ C, enter low speed; if outdoor ambient temp. $> 28^{\circ}$ C, enter high speed.

1.3 Heating mode (heat pump model)

- 1.3.1 Indoor coil temp. ≥50°C, outdoor motor will run at low speed.
- 1.3.2 Indoor coil temp. <40°C, outdoor motor will run at high speed.
- 1.3.3 40°C ≤ indoor coil temp. < 50°C, outdoor motor will change with outdoor ambient temp.

Outdoor ambient temp.<13℃, enter high speed; Outdoor ambient temp.>15℃, enter low speed; 13≤Outdoor ambient temp.≤15℃, keep the current speed;

In running, the system will be controlled as 2° C temperature tolerance; if outdoor ambient temp. < 13° C, enter high speed; if outdoor ambient temp.> 15° C, enter low speed.

Every step will run at least 45 seconds, and the motor will start up 2 seconds earlier than compressor.

2. Defrost control

2.1 Defrosting condition

In heating mode, the compressor will run for 30 minutes continuously or run for 45 minutes in all and for over 5 minutes contineously, outdoor motor at least runs for 2 minutes; If the outdoor ambient temperature and outdoor coil temperature can comply with the shadow area in the figure and keep for 1 minute, the defrost will work and send defrost signal to indoor unit, then indoor unit will control indoor motor accordingly.

2.2 Quit condition

Outdoor coil temp. arrives the defrost-end temp. 14°C or the defrost time is over 12 minutes, the defrost will finish and send signal to indoor unit.

2.3 Defrost operation

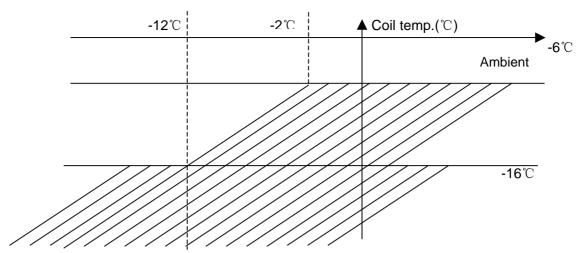
Compressor and outdoor motor stop, indoor motor stops meanwhile; 55 seconds later, the reversing valve will close. Another 5 seconds later, compressor starts up.

After defrost is over, compressor stops, outdoor motor runs at high speed; 55 seconds later, the reversing valve will open. Another 5 seconds later, compressor starts up and indoor motor runs at anti-code mode.

Type 1: Standard defrost

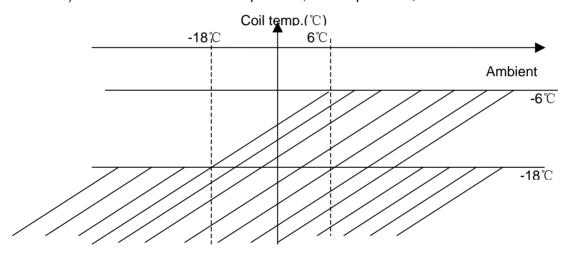
- 1) If Tr \geqslant -2°C, when Tp \leqslant -6°C, enter defrost.
- 2) If $-12^{\circ} \le Tr \le -2^{\circ}$, when $Tp \le -6^{\circ}$, please refer to the following chart.
- 3) No matter the ambient temperature, when Tp≤-16°C, enter defrost.





Type 2: Non-standard defrost (rectify defrost data by the device)

- 1) If $Tr \ge 6^{\circ}C$, when $Tp \le -6^{\circ}C$, enter defrost.
- 2) If -18° C \leq Tr<-6 $^{\circ}$ C, when Tp \leq -6 $^{\circ}$ C, please refer to the following chart.
- 3) No matter the ambient temperature, when Tp \leq -18°C, enter defrost.



2.4 Manual defrost

Indoor sends defrost signal to outdoor, and the outdoor will receive the defrost signal when compressor is running in heating mode, then enter the defrost process. When outdoor coil temperature arrives the defrost-end point and the defrost time is over 5 minutes, outdoor will send the defrost-end signal to finish the defrost.

3. Compressor crankcase heater working condition

By the N.C. (normal close) auxiliary point of AC contactor to control, when compressor stops, the heater will work; when compressor works, the heater will stop.

4. System protection function

4.1 Anti-freezed protection

When compressor has run for over 6 minutes, to prevent indoor evaporator freezing (in cooling/dry mode), if indoor coil temp. is below -1 degree for over 1 minutes, compressor and outdoor motor will stop and enter Fan mode. After compressor stops for 9 minutes, and indoor coil temp. rises up to 10 $^{\circ}$ C, the unit resumes to cooling mode, compressor and outdoor motor will work again.

4.2 Overheat protection

In heating mode, if indoor motor is running and the compressor has run for over 30 seconds, the



sensor will check the indoor coil temperature, and send the temp. to outdoor; if indoor coil temp. >T1 (53°C), the outdoor motor will enter low speed; if indoor coil temp. <T2 (50°C), outdoor motor will enter high speed; if indoor coil temp. >T3 (56°C), outdoor motor will stop; if indoor coil temp. <T4 (53°C), outdoor motor will resume low speed; when indoor PCB receive the signal of outdoor motor stop from outdoor PCB over 2 minutes, if indoor coil temp. >T6 (70°C) or 10 minutes later indoor coil temp. >T5 (56°C), send compressor stop signal to outdoor unit; if indoor coil temp. <46°C and the compressor has stopped over 3 minutes, send compressor run signal to outdoor unit, and compressor resume to normal.

The outdoor motor is control by oudoor unit.

4.3 Over current protection

4.3.1 In heating mode

After compressor running for 40 seconds, if the current thermostat has measured that system working current is more than 21A and keep it for 5 seconds, outdoor motor will convert into low speed; if working current is less than 18A, it will resume to high speed; if working current is more than 25A and keep it for 5 seconds, outdoor motor will stop; if working current is less than 22A, outdoor will resume to low speed (fan speed conversion frequency must be more than 45 seconds); after compressor running for 5 minutes, if working current is more than 34A and keep it for 5 seconds, compressor will stop and will resume 3 minutes later.

If within 30 minutes there are 3 times compressor over current protection, compressor will not start up, meanwhile, LCD will display E5. Only shut off and powered on again, the protection can be cancelled.

4.3.2 Not in heating mode

After compressor running for 5 minutes, if working current is more than 34A and keep it for 5 seconds, compressor will stop and will resume 3 minutes later.

If within 30 minutes there are 3 times compressor over current protection, compressor will not start up, meanwhile, LCD will display E5. Only shut off and powered on again, the protection can be cancelled.

4.4 Power protection

4.5 High/Low Pressure protection (cooling only unit without this function)

After compressor running for 8 minutes, the system will check the pipe pressure. If pipe pressure is over high, high pressure switch has acteivated more than 15 seconds, compressor, outdoor motor will stop and 3 minutes later it will resume. If within 30 minutes there are stop phenomenon 3 times because of pressure over high, the compressor will stop and LCD will display E6. only shut off and powered on again, the protection can be cancelled.

Low pressure protection

- (1) After compressor running for 3 minutes, if low pressure switch has acteivated for 15 seconds continuously, compressor will stop and alarm.
- (2) Check the low pressure switch when compressor is stop, the compressor will not run if low pressure switch act, low pressure switch has acteivated more than 30 seconds, LCD will display Low pressure abnormal
- (3) In defrosting and in 6 minute after defrost is over, low pressure switch will not be checked.
- (4) In heating, compressor run and outdoor motor stop, low pressure switch will be shielded.
- (5) Low pressure protection can be resumable when power-off.

4.6 3-minutes protection for compressor

After compressor stops, it cannot be started until 3 minutes later. During the machine's running, if the time not more than 3 minutes after power is off, the compressor cannot be restarted until 3



minutes later after it is powered on again

4.7 Sensor broken down protection

a. Check if sensor breaks down

After compressor has run for 2 minutes, the unit will check the sensor, Outdoor board checks the sensor in short circuit or in open circuit or near to short/open circuit for 2 minutes continuously, then it will adjust the sensor broken down.

b. How to deal with it?

If the outdoor ambient temperature sensor and the outdoor coil temperature sensor have broken down, the unit will stop running, and alarm E3, E4, E4 simultaneously.

4.8 Starting current control

Outdoor unit load control: after the outdoor motor running for 2 seconds, main compressor start up, the secondary compressor will run 2 seconds later.

4.9 4-way valve control

5. Outdoor PCB test

- (1) There are three pins marked with TEST, please make the two ones near to COOL in short circuit. Outdoor begin to run in cooling mode, that is, compressor run and outdoor motor works at high speed.
- (2) There are three pins marked with TEST, please make the two ones near to HEAT in short circuit. Outdoor begin to run in heating mode, that is, compressor and 4-way valve run, outdoor motor works at low speed.



Part 5 Maintenance

1. Failure code	
1.1 For convertible type units	241
1.2 For HPU-42CV03, HPU-42HV03 and HP	J-48HV03 242
1.3 For other models	243
2. Troubleshooting	



1. Failure code

1.1 For convertible type units

For	Failure	For central	Failure description	Reason
remote	code on	control,		
type, flash	wired	failure code		
times	controller			
10	08	21	Drainage system failure	Float switch broken down for more than
				25m continuously
1	01	01	Indoor ambient temp. sensor	sensor broken down or short circuit for
			failure	more than 2m continuously
2	02	02	Indoor coil temp. sensor failure	sensor broken down or short circuit for
				more than 2m continuously
3	4A	11	Outdoor ambient temp. sensor	sensor broken down or short circuit for
			failure	more than 2m continuously
4	49	12	Outdoor coil temp. sensor	Sensor broken down or short circuit for
			failure (compressor	more than 2m continuously
			discharging temp. sensor)	
5	48	10	Over-current protection	CT check abnormal 3 times in 30m
6	53	14	High pressure abnormal	High pressure switch acts 3 times in 30m
8	07	06	Communication between wired	Communication abnormal for more than
			controller and indoor abnormal	4m continuously
9	06	05	Communication between	Communication abnormal for more than
			indoor and outdoor abnormal	4m continuously
11	0B	30	Outside alarm signal input	Outside signal broken down for more than
				10s
12	03	20	Gas pipe temp. sensor	Sensor broken down or short circuit for
			abnormal	more than 2m continuously
13	0D	31	Solenoid valve abnormal	Solenoid valve act incorrectly 3 times
				continuously
15	05	17	EEPROM abnormal	EEPROM data missing
16	54	26D	Outdoor pressure switch or	Pressure switch or discharging protector
			discharging protector abnormal	disconnected; or CN11 on indoor PCB
				disconnected. The failure occurs only
				when there is no outdoor PCB.



1.2 For HPU-42CV03, HPU-42HV03 and HPU-48HV03

1.2.1 For outdoor units

Failure description	Fault code
Outdoor ambient temp. sensor failure	E3 / flash 3 times
Outdoor coil temp. sensor failure	E4/ flash 4 times
Fault in discharging temp. sensor	E4/ flash 4 times
Phase failure	E5/ flash 5 times
Compressor current protection	E5/ flash 5 times
High pressure abnormal	E6/ flash 6 times
Low pressure malfunction	E6/ flash 6 times
Communication failure	E9/ flash 9 times

1.2.2 For indoor unit

No.	Fault description	Operation
140.	r adit description	panel display
1	Indoor ambient temp. sensor failure	E1
2	Indoor coil temp. sensor failure	E2
3	Outdoor ambient temp. sensor failure	E3
4	Outdoor coil temp. sensor failure	E4
5	CT current failure	E5
6	Pressure protection	E6
7	Communication failure between indoor	E8
	units panel	Lo
8	Communication failure between indoor and	E9
	outdoor PCB	L9



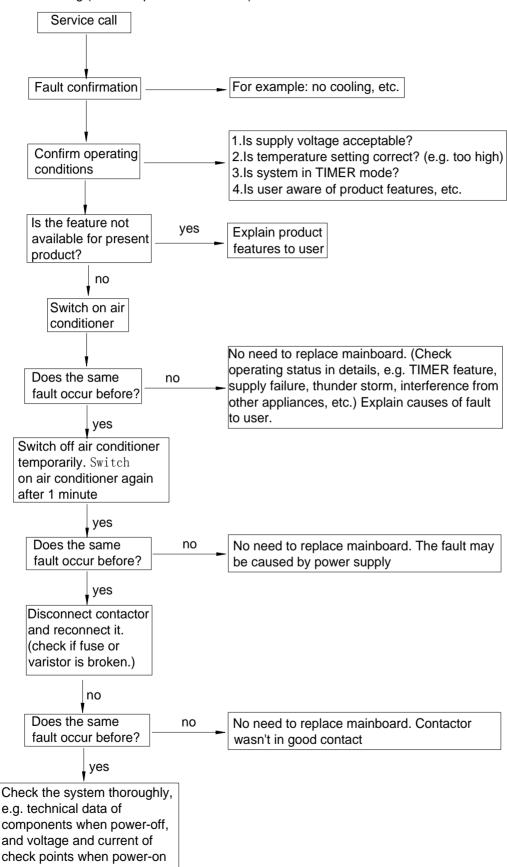
1.3 For other models

Failure code on wired times/LED on controller PCB flash times E0 10 Fault in drain system Float switch is open E1 1 Indoor ambient temp. sensor failure 2m continuously E2 2 Indoor pipe temp. sensor failure 2m continuously E3 3 Outdoor ambient temp. sensor failure 2m continuously E4 4 Quidoor pipe or discharge temp. 2m continuously 2m continuously 2m continuously E4 4 A Sensor failure 2m continuously 2m continuously 2m continuously 2m continuously 3m co				7
wired controller times/LED on pCB flash times failure description Reasons E0 10 Fault in drain system Float switch is open E1 1 Indoor ambient temp. sensor failure Sensor broken down or short circuit for more than 2m continuously E2 2 Indoor pipe temp. sensor failure Sensor broken down or short circuit for more than 2m continuously E3 3 Outdoor ambient temp. sensor failure Sensor broken down or short circuit for more than 2m continuously E4 4 temp. sensor failure Sensor broken down or short circuit for more than 2m continuously or outdoor discharge temp. over 120°C for 3 times continuously in 30m E5 5 overcurrent Indicate phase failure when been electrified for the first time, indicate overcurrent protection during working procedure E6 High pressure malfunction Outdoor low pressure switch acts E6 Low pressure Outdoor low pressure switch acts E7 Communication failure between indoor PCB and panel or wired controller communication abnormal for more than 4m continuously E8 8 Indoor PCB and panel or wired controller communication between indoor PCB and outdoor pCB popen for more than 4m E9 <t< td=""><td>Failure</td><td>Power lamp</td><td></td><td></td></t<>	Failure	Power lamp		
times/LED on PCB flash times E0 10 Fault in drain system Float switch is open E1 1 Indoor ambient temp. sensor failure 2m continuously E2 2 Indoor pipe temp. sensor failure 2m continuously E3 3 Outdoor ambient temp. sensor failure 2m continuously E4 4 Emp. sensor failure 2m continuously E5 5 Sensor broken down or short circuit for more than 2m continuously 2m continuously 2m continuously 2m continuously 30m Indicate phase failure when been electrified for the first time, indicate overcurrent protection during working procedure E6 16 High pressure malfunction Outdoor low pressure switch acts or the protector on the top of compressor breaks for protection E7 Communication failure between indoor PCB and panel or wired controller 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure. System cooling or heating 2m continuous procedure 1cm failure 2m continuous procedure	code on	flash	failure description	Reasons
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E9 9 Communication failure between communication between indoor PCB and outdoor PCB open for more than 4m Temperature cutoff protection System failure. System cooling or heating	E8	8	indoor PCB and panel or wired	continuously
E9 9 indoor and outdoor unit PCB open for more than 4m Temperature cutoff protection System failure. System cooling or heating			controller	
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E7 Temperature cutoff protection System failure. System cooling or heating	E9	9	indoor and outdoor unit	PCB open for more than 4m
E/ 3	F-7	42	Temperature cutoff protection	System failure. System cooling or heating
function abnormal	E/	13		function abnormal



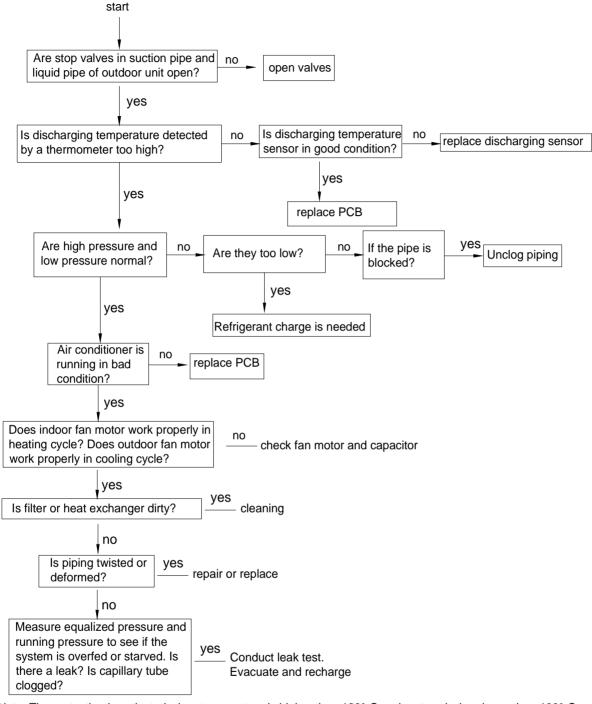
2. Troubleshooting

Troubleshooting (before replacement of PCB)





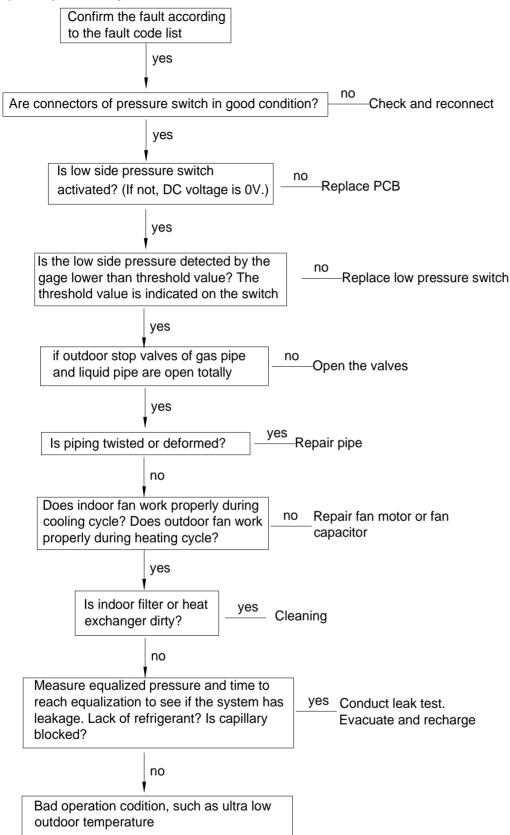
1) Compressor discharging temperature protection



Note: The protection is activated when temperature is higher than 120° C and restored when lower than 100° C.

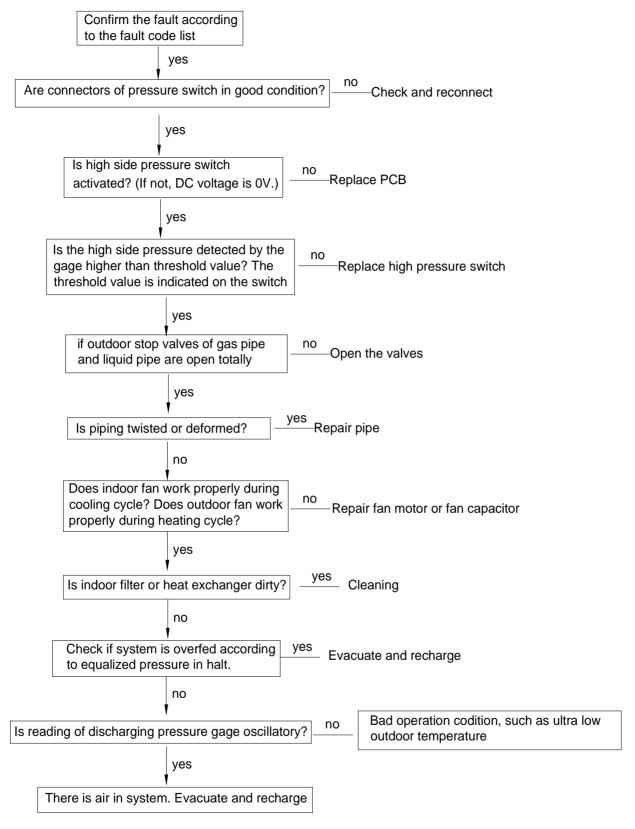


2) Low pressure protection



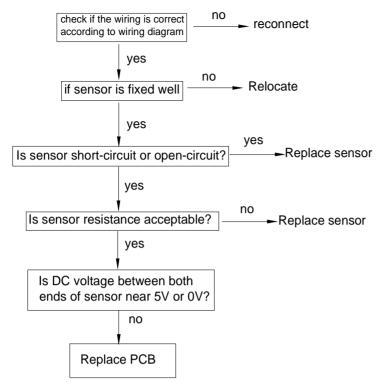


3) High pressure protection

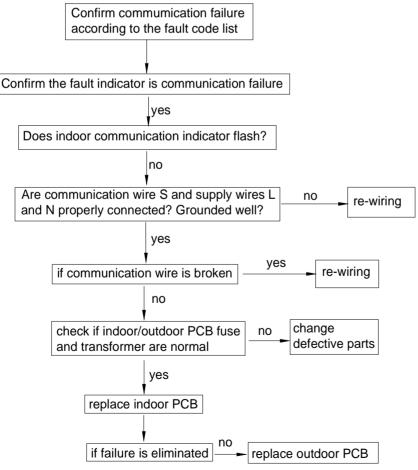




6) Sensor failure

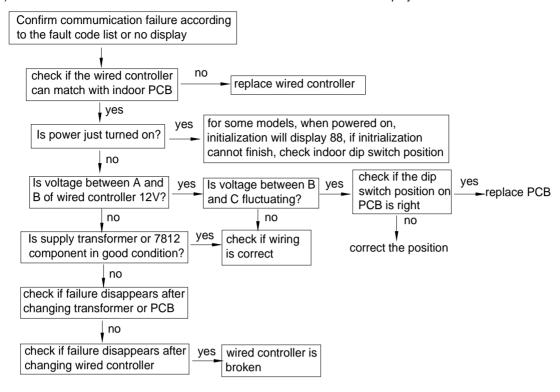


5) Communication error between indoor and outdoor units

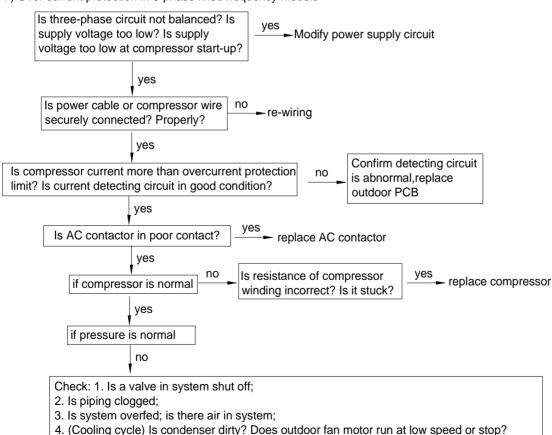




6) Communication failure between wired controller and indoor PCB or no display on wired controller



7) Over current protection in 3-phase fixed frequency models

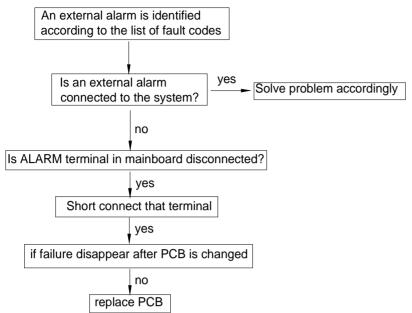


5. (Heating cycle) Is evaporator or filter dirty? Does indoor fan motor run at low speed or stop?

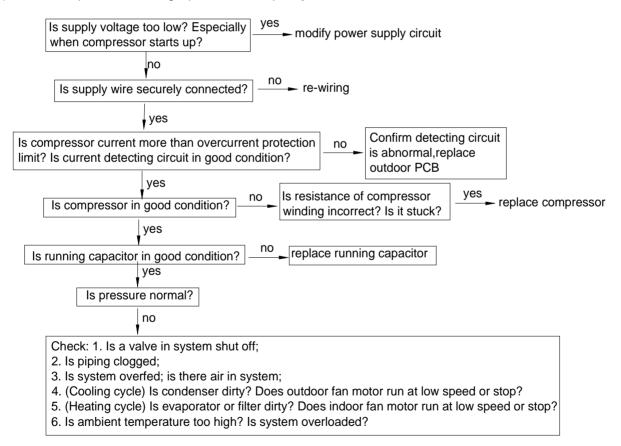
6. Is ambient temperature too high? Is system overloaded?



8) External alarm

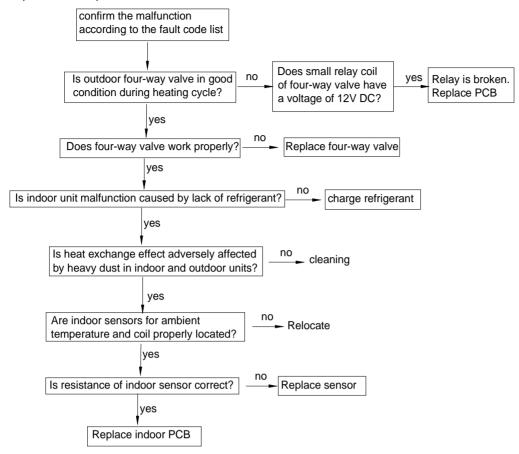


9) Overcurrent protection for single-phase fixed frequency models

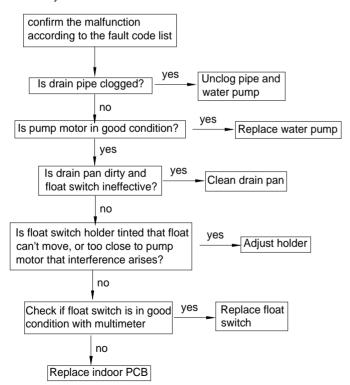




10) Temperature cutoff protection



11) Fault in drain system



Note: Float switch is close in normal state, when being activated, it is open. Voltage between both ends is 0V when close, approximately 5V when open.



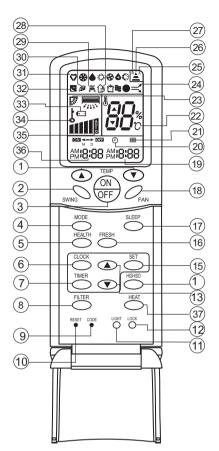
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1 Infrared controller

1.1 Infrared controller YR-H71



1.TEMP Setting Button

Used to set temperature. Setting ranges: 16°C to 30°C)

In Up/Down function of filter, for controlling up and down filter.

2.SWING Button

If you press this button once, auto swing will be activated.

If you press this button again, the louver will fix in the present position.

3. Power ON/OFF Button

Used for unit start or stop

After power on, the LCD of remote controller will display the previous operation state (except for TIMER,SLEEP and SWING state).

4. Operation MODE

Used to select operation mode.

Every time you press MODE button, operation mode changes according to following sequence:



5.HEALTH Button

6.CLOCK Button

Used to set correct time.

7.TIMER Button

Used to select TIMER mode:TIMER ON,TIMER OFF, TIMER ON/OFF.

(Note: if time of TIMER ON is the same as TIMER OFF, TIMER ON/OFF cannot be set)

8. FILTER Button

Used to set up/down function of filter.

9.CODE Button

Used to select Code A or B, Normally at Code A.

As you cann't controll the indoor unit, please change the Code to B.

10.RESET Button

Press this button by using a sharp article to resume the correct operation of the remote controller in case of need, i.e. for example in case of malfunctions due to electromagnetic disturbance.

11.LIGHT Button

Used to light the control panel

12.LOCK Button

Used to lock operation button and LCD display contents: by pressing this button, other buttons comes out of function and lock state display appears; if you press it again, lock state will be no more active and lock state display will disappear.

13.HOUR Adjustment

Used to set clock and timer setting

14.HIGH/SO Button

Used to select HIGH or SOFT operation.

15.SET Button

Used to confirm TIMER and CLOCK settings.

16.FRESH Button

Used to set fresh mode, the unit will draw in fresh air.

NOTE: 1. Single cooling air conditioner does not have the displays and functions related to heating.

2. For some units, the function (5)(8)(11)(14)(16)(37) are optional.

3.HIGH/SO button

This button is active in Cooling/Heating mode, the fan speed is in AUTO mode after pressing it and "high function" will be automatically cancelled after 15 minutes running.



17.SLEEP Button

(The clock must be corrected before setting sleep function) Used to set sleep mode.

18.FAN Button

Used to select fan speed:LOW,MID,HIGH,AUTO.

19.TIME Display

20.TIMER Display

21.FILTER Display

When the filter need be cleaned, you can press the FILTER button for 3s, to up/down function.

22.TEMPERATURE Display

23.AUTO SWING Display

24.HIGN/SO Run Display

25.Code A of controller's state

Code A is used for this unit

26. SIGNAL SENDING Display

27. Code B of controller's state

28.Fresh Display

29. Auxiliary ELECTRICAL HEATING Display

30.HEALTH Display

Displays when healthy run function is set.

31. Operation MODE Display

AUTO RUN	COOL RUN	DRY RUN	HEAT RUN	FAN RUN
♡	*		\ \	8

32.SLEEP State Display

33.BATTERY Energy Display

Notify the user when it is time to change the batteries.

34.LOCK State Display

35.FAN SPEED Display



36.TIMER ON Display

37.HEAT Button

Used to select auxiliary heater.

Remote Controller Operation

 When in use, direct signal transmission head to the receiver placed on the indoor unit

- The distance between the remote controller and the receiver should be max 7m and there should be no obstacle between them.
- Do not throw the remote controller; prevent it from being damaged.
- When operating the remote controller in an area where electronically controlled lights are installed or wireless handsets are used, please move closer to the indoor unit as the function of the remote controller might be affected by signals emitted by the above mentioned equipments.

Battery loading

Battery loading

Batteries are fitted as follows:

Remove the battery compartment lid

Slightly press and disengage the battery compartment lid marked with """ and then hold the remote controller by the upper section and then remove the battery compartment lid by pressing in the direction of the arrow as shown in the figure above.

Loading the battery

Ensure that batteries are correctly placed in the compartment as required for positive and negative terminals.

Replacing the battery compartment lid

The battery compartment lid is reinstalled in the reverse sequence.

Display review

Press the button to see if batteries are properly fitted. If no display appears, refit the batteries.

Confirmation indicator

If no indication is displayed after press $\ensuremath{\mathsf{ON/OFF}}$ button, reload the batteries.

Caution:

If the remote controller does not operate as designed after fitting new batteries of the same

type, press the Reset button (marked 1) with a pointed article.

Note:

It is recommended that the batteries be removed from the compartment if the remote controller is not used for an extended period.

The remote controller is programmed for automatic test of operation mode after the batteries are replaced. When the test is conducted, all icons will appear on the screen and then disappear if the batteries are properly fitted. When throw away the waste batteries, please perform in accordance with the local regulation.

Clock Set

When unit is started for the first time and after replacing batteries in remote controller, clock should be adjusted as follows:

1.Press CLOCK button, clock indication of " AM " or " PM " flashes.

2.Press ▲ or▼ to set correct time. Each press will increase or decrease 1 min. If the button is kept pressed, time will increase or decrease quickly.

3.After time setting is confirmed, press "SET": AM or PM stop flashing, while clock starts working.

Note: AM means morning and PM means afternoon.



AUTO, COOL, HEAT and DRY Operation



COOL operation starts when room temp.is higher than temp.

setting.

Temp. setting +2 C

Temp.setting

1. Unit start

Press ON/OFF button, unit starts.

Previous operation status appears on LCD (except for TIMER, SLEEP and SWING setting)

2. Select operation mode

Press MODE button. At each press, operation mode changes as follows:



Then (select AUTO run) or (select COOL operation) or (select DRY operation)

or select HEAT operation

3. Temperature setting

Press TEMP button.

- ▲ Every time the button is pressed, temp. setting increases 1 °C; if the button is kept pressed, temp. setting will increase quickly.
- ▼ Every time the button is pressed, temp. setting decreases 1°C, if the button is kept pressed, temp. setting will decrease quickly.

Set proper temperature

4. Adjust FAN button

Press FAN button. At each press, fan speed changes as follows:



Air conditioner will run at the selected fan speed.

5. Unit stop

Press ON/OFF button, unit stops.

In FAN mode, the temperature setting is not displayed on LCD.

Ultra-low air flow

On reaching temp.setting

+2°C, unit will run in mild

DRY mode.

In DRY mode, when room temperature becomes 2 C higher than temperature setting, unit will run intermittently at LOW speed regardless of FAN setting. When room temperature is lower than temperature setting, unit will only run FAN operation.

In HEAT mode, warm air will blow out after a short period of time due to cold-draft prevention function.

Fan Operation (Only for Code A)

1. Unit start

Press ON/OFF button to start your air conditioner. Previous operation status appears on LCD (except for TIMER, SLEEP, and SWING setting).

Select operating mode

Press MODE button. At each press, operation mode changes as follows:

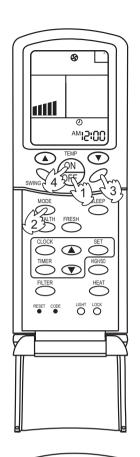


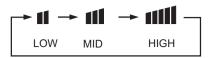
Then select FAN

3. Adjust fan speed

Press FAN button. At each press, fan speed changes as follows:







Air conditioner will run at the selected fan speed.

When in AUTO mode, unit will adjust fan speed according to room temperature automatically.

4. Unit stop

Press ON/OFF button to stop unit.

About FAN mode

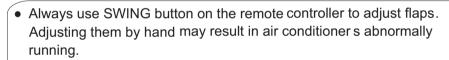
When the air conditioner runs in FAN mode, it is not possible to select AUTO FAN or to set temperature.

Adjusting air flow direction

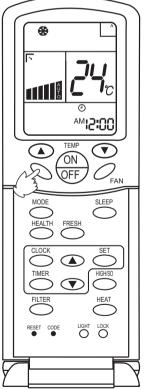


Press SWING button. Up and down airflow varies upwards and downwards. Left and right airflow varies left and right sides

When the automatic swing louver moves to the proper angle, press SWING button can fix the airflow direction.



- In COOL or DRY mode, do not leave the louver in downward position for a long time, as the water vapor close to the grille may condense and water may drop from the air conditioner.
- Please carefully set temperature when children, old or infirm people use the air conditioner.
- In case of great humidity, If the vertical flaps are completely turned towards left or right, the louver will drop water.
- Never adjust the louver directly by hand, as this could make it work abnormally. If the louver work abnormally, stop unit, restart and adjust the louver by remote controller.



After unit stops:

Displays on the LCD disappear.

All indicators on the indoor unit go out.

Swing louver automatically close the air outlet.

Hints:

As in COOL mode air flows downwards, adjusting airflow horizontally will be much more helpful for a better air circulation

As in HEAT mode air flows upwards, adjusting airflow downward will be much more helpful for a better air circulation.

Be careful not to catch a cold when cold air blows downward directly



Sleep Function

Before going to bed you can press down the SLEEP button and the air conditioner will run so as to make you sleep more comfortably.

Before using this function, the clock must be set.

Use of SLEEP function

After the unit's start, set running mode and then press SLEEP button once to make the air conditioner have the previous-set sleep time (first power-on is "1h"). The sleep symbol will appear. Press time button ▲ / ▼ : you can choose the time in 1~8 hours. Each time the button is pressed, the time increases/decreases 1 hour: "xh" and "OFF" indications appear on the display.

Operation Mode

1.In COOL, DRY mode

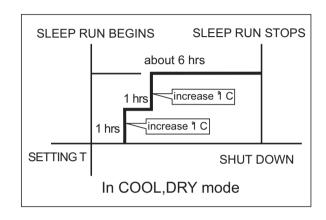
One hour after sleeping operation start, the temperature is 1°C higher than the setting one. After another hour, temperature rises 1°C: sleep run continuously for another 6 hours and then stops. The actual temperature is higher than the setting one which is to prevent from being too cold to your sleep.

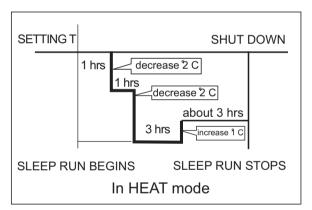
2.In HEAT mode

One hour after sleeping operation start, the temperature is 2°C lower than the setting one. After another hour, temperature decreases by 2°C more. Temperature will automatically rise by 1°C after another 3 hours' continuous operation and keep running for another 3 hours. The actual temperature is lower than the setting one which is to prevent from being too hot to your sleep.

3.In AUTO mode

The air conditioner will run in corresponding sleep operation according to the automatically selected operation mode.





Notes:

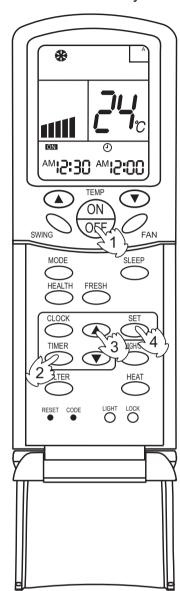
- After setting SLEEP function, it is not possible to set clock.
- If set-sleep time does not reach 8 hours, unit will automatically stop 0 operation after set time is reached.
- Set "TIMER ON " or "TIMER OFF "In COOL, DRY mode function first, then set SLEEP. After set SLEEP function, the TIMER function cannot be set.





Timer ON/OFF Function

Set clock correctly before starting TIMER operation



1.Unit start

After unit start, select your desired operation mode (operation mode will be displayed on LCD)

2.TIMER mode selection

Press TIMER button on the remote controller to change TIMER mode. Every time the button is pressed, display of TIMER mode changes as follows:



Then select TIMER mode as needed (TIMER ON or TIMER OFF). Now **ON** or **OFF** will flash.

3.TIMER setting (press time adjust buttons ♠)

- ▲ Every time the button is pressed, time increases 10 minutes. If the button is kept pressed, time will changes quickly.
- ▼ Every time the button is pressed, time decreases 10 minutes. If the button is kept pressed, time will changes quickly. It can be adjusted within 24 hours at will.

4.Confirm setting

After setting correct time, press SET button to confirm time. Now **ON** or **OFF** stop flashing.

Time displayed: unit starts or stops at X hour X min (TIMER ON or TIMER OFF)

5.Cancel TIMER mode

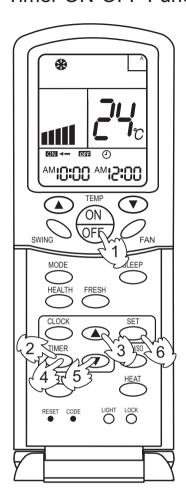
Just press TIMER button several times until TIMER mode disappears Hints:

After replacing batteries or if a power failure occurs, TIMER setting must be reset.

Remote controller has memory function. When you use TIMER mode next time, just press SET button after mode selection if timer setting is the same as the previous one.



Timer ON-OFF Function



Set clock correctly before starting TIMER operation

1.Unit start

After unit start, select your desired operation mode (operation mode will be displayed on LCD)

2.TIMER mode selection

Press TIMER button on the remote controller to change TIMER mode. Every time the button is pressed, display of TIMER mode changes as follows:



Then select TIMER ON-OFF mode. ON will flash.

3. Time setting for TIMER ON

Press time button \clubsuit

- ▲ Every time the button is pressed, time increases 10 minutes. If the button is kept pressed, time will changes quickly.
- ▼ Every time the button is pressed, time decreases 10 minutes. If the button is kept pressed ,time will changes quickly. It can be adjusted within 24 hours at will. AM refers to morning and PM refers to afternoon.

4. Timer confirming for TIMER ON

After setting correct time, press TIMER button to confirm time. Now stops to flash, while **OFF** starts flashing.

5. Timer setting for TIMER OFF

Press time buttons ♣ and follow the same procedures in " Time setting for TIMER ON"

6. Time confirming for TIMER OFF

After time setting, press SET button to confirm time. **OFF** stops to flash.

Time displayed: unit starts or stop at X hour X min.

7. Canel TIMER mode

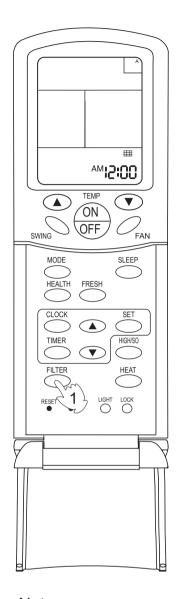
Just press TIMER button several times until TIMER mode disappears.

According to the time setting sequence of TIMER ON and TIMER OFF, either start-stops or stops-start can be realized.

If the time setting of TIMER ON is the same as TIMER OFF, TIMER ON-OFF function cannot be set.



Filter Up/Down



After the air conditioner has operated for a certain period, dust has accumulated on the filter, and the filter up/down function can be used to clean it. This function is convenient to pull out the filter for customer.

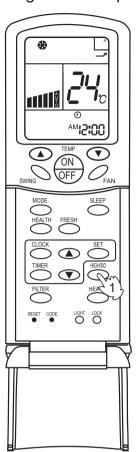
- 1.Whether unit starts or stops, continuously press FILTER button for 3 seconds, and enter the filter up/down waiting status (when unit stops, the TIMER indicator flashes, and filter and clock indication are displayed on the remote controller. Only the FILTER button, the temperature buttons "▲" "▼" and time buttons ♣ are active).
- 2.Press temperature " ▼" button or time "▼ " button in filter up/down waiting status: the up/down mechanism makes the filter moving downward and does not stop until it has reached the maximum limit.
- 3.Press temperature "▲" button or time" ▲ " button in filter up/down waiting status: the up/down mechanism makes the filter to moving upward till near the surface board and then automatically adjusts it to reset (when adjusting to reset, it will not be controlled by the remote controller till the adjustment is finished).
- 4. During moving downward, press temperature "▲" button or time "▲" button: moving stops.
- 5.During moving upward, press temperature "▼" button or time "▼" button: moving stops.
- 6.Continuously press FILTER button 3 seconds again tocancel the filter up/down waiting mode (unit stops, the yellow timer indicator stops flashing, the filter goes back tothe original position, the remote controller goes back to off status and only clock is displayed).

Note:

If the filter does not thoroughly go back to the original position, only needs to operate several times repeatedly.



" High mode " Operation



Outline of operation in "High Mode"

This function is suitable when the set temperature must be reached in the shortest delay.

The button "HIGH/SO", referred to this function, is effective in Cooling/Heating mode (not in Auto/Dry/Fan modes).

ON

Press the HIGH/SO button noce

The indication \longrightarrow appears on the display of the remote controller and in "High Mode" starts.

The AUTO fan speed is automatically set and the corresponding indication is also displayed.

In this mode, fan speed cann't be adjusted.

OFF

Press the HIGH/SO button twice

If the button is pressed once, the indication \nearrow is displayed on the remote controller. If you press the button once again, the indication disappears, regular operation is restored and fan speed goes back to the mode set before "High Mode" operation.

NOTICE:

- When the air conditioner is operating in " High Mode ", unevenness of room air temperature may occur due to the intensive operation in a short time.
- Anyway, operation in "High Mode", does not last for more than 15 minutes, then regular operation is automatically restored.

" Soft mode " Operation

Outline of operation in "Soft Mode"

Operation in "Soft Mode", more silent, is suitable when noises should be reduced, e.g. for reading or sleeping.

The button "HIGH/SO", referred to this operation, is effective in Cooling /Heating mode (not in Auto/Dry/Fan modes).

ON

Press the HIGH/SO button twice

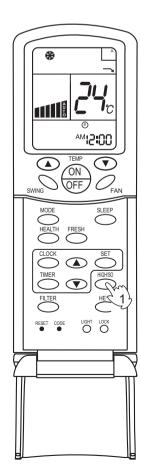
The indication \rightarrow appears on the display of the remote controller and operation in "Soft Mode" starts.

The AUTO fan speed is automatically set and the corresponding indication is also displayed.

OFF

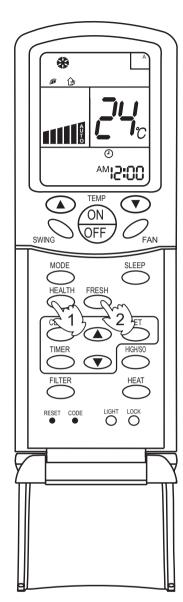
Press the HIGH/SO button twice

If the button is pressed once, the indication → is disappears from the remote controller's display. If you press the button once again, regular operation is restored and fan speed goes back to the mode set before "Soft Mode" operation.





Health & Fresh Air operation



Health operation

After turning on the unit and set the desired working mode. Press the Health button, the LCD will display " ", the unit begins health operation (start the negative ion generation device). Press the Health button again, the " " " displayed on the LCD disappears, health operation is cancelled (turn off the negative ion generation device).

Note: When indoor fan motor does not work, the unit will automatically turn off negative ion generation device.

About Health operation

After the start of Health operation, the negative ion generator will generate large amount of negative ion, which can effectively balance the amount of positive & negative ion in the air and has the bacteria-killing and accelerating the dust deposition of the room to make the room air fresh and healthy.

Fresh Air operation

After turning on the unit and set the desired working mode (the remote controller LCD and control panel LCD display the working mode).

Press the Fresh Air button of the remote controller, the LCD displays "a", and the unit begins continuous fresh air operation; press the button again, the " a " in " a " flashes and begin automatic fresh air operation. Press the the button for the third time to cancel fresh air function.

Continuous fresh air operation: That is to say, if there is no intervention, the fresh air operation will continuously run and not stop.

Automatic fresh air operation: That is to say, the fresh air operation runs intermittently. After 20 minutes operation, the fresh air operation will stop for 20 minutes; runs for another 20 minutes, it will stop for another 20 minutes, repeatedly runs.

Note: Either in ON or OFF state, the fresh air operation can be independently set to run.

About Fresh air operation

The ventilation device of this air conditioner can discharge the indoor air to outdoors, while the outdoor fresh air supplement to indoors, so that fulfills the fresh air function



Infrared controller YR-H71 and remote receiver RE-01:

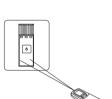
If the unit is wired type and it is without the remote receiver, you can use the remote receiver RE-01 and the remote controller YR-H71 to realize the remote function. The installation of remote receiver and usage function are as follows:

The right figure is a remote controller, which can be used on series remote control units and the matching remote control receiver

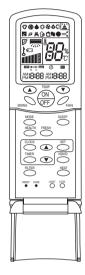
1.Remote control receiver using method:

Use remote controller control the remote control window of the remote control receiver.

2.For Unitary Free, Unitary Smart and Multi units, the controller CODE please select code "A"; for H-MRV and AS**X ABAA unit, please select code "B".







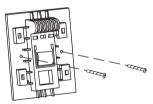
Remote receiver Remote controlller

Installation of receive display

Because of the temperature sensitive device, do not install the receive display at straight sunlight place, either in front of air outlet grill, for it is effected greatly from cool air and heat air, the receive display is at least 20mm distance to the air outlet grill.

Since there is light sensitive device which receives wireless remote signal, so do not installed behind the window curtain or other obstacles, in order not to obstruct the signal.

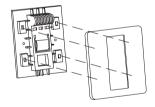
Must fix the remote control wire far from strong electricity (such as the wiring of electric light, air conditioner, etc.) and weak electricity (such as the wiring of telephone, interphone, etc.).



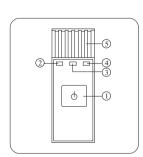
1.Fix the receive display with screws on the selected place

Connecting wiring method of receiver:

- Refer the indoor unit wiring diagram .
- Safety cautions see the electrical wiring part .
- 1.Emergency switch
- (2). Running lamp: When the compressor working, this lamp bright.
- ③.Timing lamp: When the unit been setting Timing running, this lamp bright.
- 4. Power lamp: After open the unit, this lamp bright when the unite enter health running, the lamp change from orange to blue lamp.
- (5).Indoor temp. sensor: Test the room temperature.

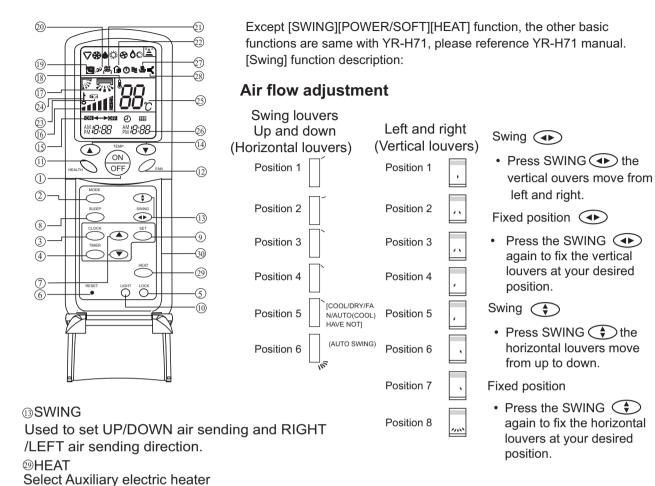


2.Place the panel onto the fixed frame, pay attention that the four claws must be placed into the corresponding four poles on the frame





1.2 Infrared controller YR-H50



Note: Put louvers at up position in cooling and down position in heating mode.

This will be helpful to keep an even room temp.

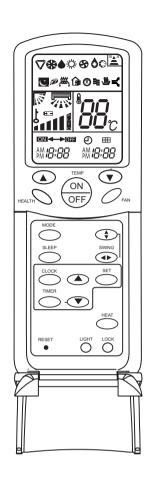
Note: In cooling or dry operation, don't put horizontal louvers at downward position for a long time, or outlet grill might get frosted. Don't expose your skin to cool or warm air for a long time.

Note: For new apperance convertible unit, the position 3 and position 4 are "Auto Swing".



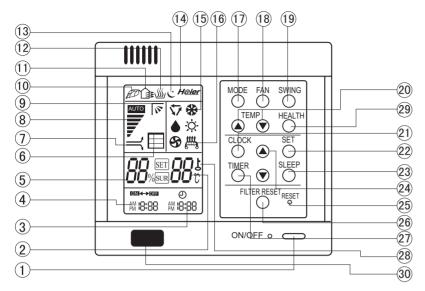
1.3 Infrared controller YR-H49

The main functions of YR-H49 are same with YR-H50, please reference YR-H71 and YR-H50 manuals.





2. Wired controller YR-E06



- 1.ON/OFF button
 Used to turn on/off unit
- 2. Temperature display
- 3.Clock display
- 4. Timer ON/OFF display
- 5. Humidity display
- 6.Air filter cleaning display

When there is too much dust collected on the air inlet, the wire controller will show this display to remind theuser to clean the air inlet. After cleaning and installation, just press the air filter reset button.

- 7. Super/Soft operation display
- 8.Fan speed display



- 9. Auto Swing display
- 10. Health state display
- 11. Fresh air state display
- 12. Humidifying state display
- 13. Sleep state display

14. Network control display 15. Working mode display

Working mode	Auto operation		Dehumidifying operation	Heating operation	
Wire controller	♡	*	۵	*	\$

- 16. Electric heating display
- 17. Operation mode button
 Used to set working mode:
 Auto, Cooling, Dehumidifying,
 Heating, Fan
- 18.Fan speed button
 Used to set fan speed: Low
 Fan, Med Fan, High Fan, Auto
- 19.Swing button
 Used to set Auto Swing or
 Fixed air sending direction
- 20.Temperature Setting button
 Used to set temperature, *
 temperature range: 16 C~30 C
- 21.Clock button
 Used to calibrate the time of timer and clock

- 22.Setting button
 Used to confirm
 the time of timer
 and clock
- 23.Sleep button
 Used to set Sleep state
- 24. Time Adjusting button
 Used to adjust the time of timer and clock
 - 25.Reset button

When the wire controller appears abnormal condition, use a sharp-pointed article to press this button to make the wire controller resume normal

- 26.Air Filter Reset button
 After cleaning the air inlet, press this button, the unit can start to operate
- 27.Timer button
 Used to set the mode of timer
- 28.Lock state display
- 29.Health

Used to control the generating oxygen function and negative ion-function

30.Remote control window Used to receive the remote control signal

Note: 1. This model does not have the following related display and function (5)(6)(7)(9)(1)(2)(14)(6)(26)

2. The outdoor unit no oxygen-bar function or no negative ion unit no (10)(29) health function and health display.

Calibration of clock

When turning on the unit for the first time, the clock should be calibrated. The method of calibration is:

- 1.Press "Clock" button, the Clock display " AM" " PM" will flash.
- 2.Press ▲ or ▼to adjust time. For each press, the time will increase or decrease 1 minute. If depressing the button, the time will increase or decrease rapidly.
- 3.After confirming the time, press "Set" button, "AM" or "PM" will stop flashing, the clock will begin to work.



Recommendations

- Use COOL in summer.
- Use HEAT in winter.
- Use DRY in spring autumn and in damp climate.

(1) Unit

Press ON/OFF button, unit starts.

Previous operation status appears on display (Not Timer setting). Power indicator lights up.

(2) Select operation

Press MODE button. For each press, operation mode changes as follows:



Unit will run in operation mode displayed on LCD. Stop display at your desired mode.

(3) Select temp.

Press TEMP button

▲ Every time the button is pressed, temp. setting increases°1 C.

If button is kept depressed, temp.setting will increase quickly.

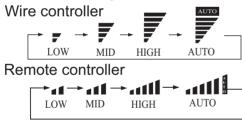
▼ Every time the button is pressed, temp. setting (5) Unit stop decreases°1 C.

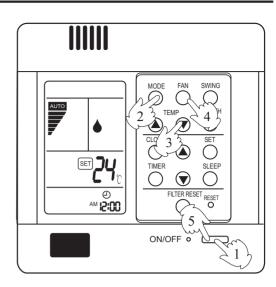
If button is kept depressed, temp, setting will decrease quickly.

Unit will start running to reach the temp. setting on LCD.

(4) Fan speed

Press FAN button. For each press, fan speed changes as follows:





Unit runs at the speed displayed on LCD.In HEAT mode, warm air will blow out after a short period of time due to cold-draft prevention function.

In DRY mode, when room temp. becomes 2 C higher than temp. setting, unit will run intermittently at LOW speed regardless of FAN setting.

Press ON/OFF button.

Only time and room temp remains on LCD. All indicators go out.

Vertical flap closes automatically.

Hint

Wire controller can memorize each operation status.

When starting it next time, just press ON/OFF button and unit will run in previous status.

- Auto running: During the Auto running mode, air conditioning running and can auto-select the cooling, heating, fan mode according to the room temperature.
- Fan running: The AC only have air supply running no cooling and heating running at the condition. AC can't have auto air supply running, and can't display the setting temperature value on the LCD.
- During the heating running, after start the AC, in order to prevent cooled air, AC can stop for a while before send heat air.
- During the dehumification running, when the room temp. setting temp., not setting condition according to the air speed.

Set Clock correctly before starting Timer operation.

You can let unit start or stop automatically at following time: Before you wake up in the morning, or get back from outside or after you fall asleep at night



TIMER

(1)After unit start, select your desired operation mode.

Operation mode will be displayed on LCD. Power indicator lights up.

(2)TIMER mode selection

Press TIMER button to change TIMER mode. Every time the button is pressed, display changes as follows: ____



Select your desired TIMER mode (ON or OFF)

(3)Timer setting

Press TIME ▲/▼ button.

- ▲ Every time the button is pressed, time increases 10min.lf button is kept depressed, time will change quickly.
- ▼ Every time the button is pressed, time decreases 10min.lf button is kept depressed, time will change quickly.

Time will be shown on LCD. It can be adjusted within 24hours.

(4)Confirming your setting

After setting correct time, press SET button to confirm "ON" or "OFF" stops flashing. Time displayed: Unit starts or stops at x hour x min (ON or OFF). Timer mode indicator lights up.

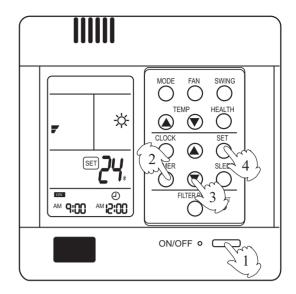
To cancel TIMER

Just press TIMER button several times until TIMER mode disappears.

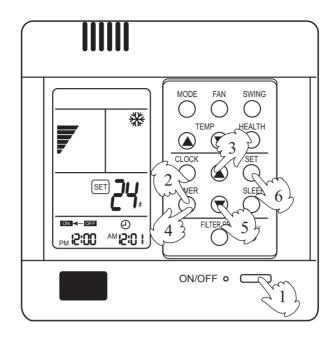
■ According to the seting timing open, close sequence, can realize first open then colse the unit or first close then open the unit.

Hints:•Wire controller possesses memory function, when use TIMER mode next time, just press SET button after mode selecting if timer setting is the same as previous one.

- •Wire remote controller or remote controller can memorize each working condition. Next time open the unit, only need to press the ON/OFF key, the AC can work according to last time working condition. (Timing, Sleeping and Swing mode not included.)
- •From Timing close to timing open, can setting sleep mode.
- •Please close health function first before setting Timer, then you can do the TIMER ON operation. Please do not use the health function when in TIMER ON state.







TIMER ON-OFF

(1)After unit start, select your desired operation mode

Operation mode will be displayed on LCD. Power indicator lights up.

(2) Press TIMER button to change TIMER mode

Every time the button is pressed, display changes as follows:



Select ON OFF

(3) Time setting for TIMER ON

Press TIME button.

- ▲ Every time the button is pressed, time increases 10min.If button is kept depressed, time will change quickly.
- ▼ Every time the button is pressed, time decreases 10min.lf button is kept depressed, time will change quickly. Time will be shown on LCD.lt can be adjusted within 24hours.

AM refers to morning and PM to afternoon.

(4) Time confirming for TIMER

After time setting, press TIMER button to confirm."ON" stops blinking, While "OFF" starts blinking. Time displayed: Unit starts at Xhour X min.

(5) Time setting for TIMER OFF

Follow the same procedures in "Time setting for TIMER ON".

(6) Time confirming for TIMER OFF

After time setting, press SET button to confirm"OFF" stops flashing.

Time displayed: Unit stops at X hour X min.

To cancel TIMER mode

- Just press TIMER button several times until TIMER mode disappears.
- According to the Time setting sequence of TIMER ON or TIMER OFF, either Start-Stop or Stop-Start can be achieved.

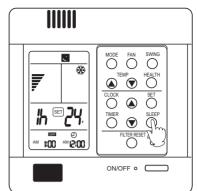


Note: Before using this function, must adjust the clock, or the sleep function will be disordered.

Comfortable Sleep

At night, before going to bed you can press down the SLEEP button on the controller and the air-conditioner will run by the comfortable sleeping mode to make you sleep more comfortable.

Press SLEEP button once to make the air conditioner have the pre-set sleep time (first power-on is "1h"), the sleep symbol will appear. Press time button $\blacktriangle/\blacktriangledown$, you can shoose the time in 1~8 hours. Each press of $\blacktriangle/\blacktriangledown$, the time increases/reduces 1hour and "xh" appear in the humidity setting area, "OFF" appears in "TIMER OFF" display area and timer-off time; press SLEEP button again to cancel sleep function, the sleep symbol disappears.



In cooling, dehumidifying mode

One hour after sleeping operation start, the temp. is $1^{\circ}C$ higher than the setting one. After another hour the temp. rises $1^{\circ}C$ and then run continuously for another 6hrs' and then close. The actual temp. is higher than the setting one which is to prevent from being too cool to your sleep.

In heating mode

One hour after start up, the temp. decrease 2° C lower than the setting one. After another hour decrease by more 2° C.

The temperature will automatically rise by 1°C after another 3hrs' operation, and then automatically close after 3hrs' continuous operation. The actral temperature is lower than the setting one which is to prevent from being too hot to your sleep.

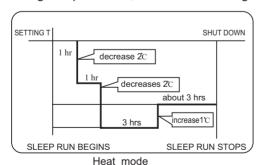
Note: In AUTO mode, unit will run in SLEEP function according to the operation mode.

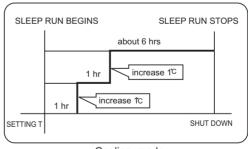
After setting SLEEP function, it is forbidden to calibrate clock.

If the set sleep-time does not reach 8 hours, the unit will stop operation automatically after set time is complete.

Set "TIMER-OFF" function first, then set SLEEP, and the sleep-set is performance; set TIMER-ON function first, the sleep function can only be set before TIMER-ON; if set the SLEEP function first, the TIMER function can not be set.

- After setting sleep function, not allowed to adjust the clock. Can't use the remote controller operate the AC. If so, please cancel the sleep function first.
- · After setting sleep function, can't set the timing function.







Auto restart function (to be applied for a necessary situation):

After the auto-restart function is set, if power failure suddenly occurs while the air conditioner is working, it will resume the previous working state when the power is supplied again.

Setting Method: When the remote controller is on (excluding timer mode and fan mode), press the "SLEEP" button on the remote controller 10 times within 5 seconds, and after the buzzer rings 4 times, the air conditioner will enter the state of auto-restart function.

Cancel Method: Press the "Sleeping" button on the remote controller 10 times within 5 seconds, and after the buzzer rings 2 timer, the power failure compensation mode will be cancelled.

Notes: When a power failure suddenly occurs during the air conditioner is working after the power failure compensation is set, if the air conditioner will not be used for a long time, please cut off the power supply to prevent its operation from being resumed after the power is supplied again, or press the "Switch On/Off" button after the power comes again. If the controller no sleep key ,use the "swing" key instead the "sleeping" on setting the auto restart function.

Concerning MRV Auto Restart function for H-MRV models

Haier Auto Restart function when the unit power drops down suddenly, the unit microprocessor will store the previous working condition and when the power is on again, the unit will run as this memory.

Auto Restart function is designed basically on the MRV whole system, but it is suitable for each indoor unit individually.

If some of indoor units power cut down, but the outdoor unit and the other indoor units still work, maybe problems will happen such as freezing at cooling mode and overload protection at heating mode on those indoor units without power.

Reason

When one or some indoor units power drops down and the other indoor units are still work, the indoor units without the power, will keep the previous working condition before the power is off. And expansion valve keeps open at a kind of opening rate condition as the previous requirement, so there is refrigerant flowing in the exchanger, but the indoor fan stops working. If the units work at cooling mode, the indoor units without the power will maybe make freezing. If the unit works at heating mode, maybe the outdoor unit compressor will stop because of the pressure or temperature protection. This is our design basically on Auto Restart function currently.

Haier, Herewith, solemnly informs our customers, installers, distributors, etc. when making installation, please make sure when the power is shut down whether artificially or accidentally, the whole system including outdoor unit and all the indoor units must be off. If you do not make the installation as our indication, Haier will not be responsible for any problem resulting from this.

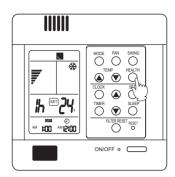
User Caution

About the remote cnotrol operation, above only take wired remote controller and remote controller as a example about the remote controller and remote receiver use method, it is the same remote controller, please use refer to above method.

No sleep function when use remote and remote receiver.



About health function



On the "Health" mode, if you want to setting timing open mode, should close the health first: On the timing open mode, please don't use health function. 1.How to use the health function (only for units with this function) After set the right function mode, press health button, remote controller or wire controller displays "",oxygen pump or negative ion generator starts up to apply oxygen or negative ion to indoor unit. Press the button again,the sign "" disappeared and negative ion generator stops working. After all health function of the indoor unit being fully canceled, oxygen pump stopped.

CAUTION:

For wired type indoor unit, the wired controller can be matched with the remote controller YR-H71 to realize the remote control function.

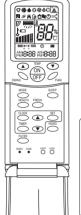
Left picture is a wired remote controller, which can be used on Series wired control units ,The remote controller can be purchased extrally.

Wired remote Controller using method:

1.Use one wired remote controller. See fig (1)

2.Also can buy a remote controller extrally, realize wired remote control + remote control dual control modes.

3. When the remote controller can be used on series wired remote controller units ,than please press the botton "CODE" to choose the program of code "A"









1. Remove upper cover of wire controller

Remove upper part of wire controller by press.

PCB is mounted on lower part of wire controller, be careful not to damage it.

2. Install the wired remote controller

Please drill two holes on the wall according to the back cover screw hole position of the wire remote controller, then strike the wood block to the holes respectively, then align the 2 screw hole of the wire controller back cover to the wood block, fasten the wire reote controller to the wall use wood screws.

3. Switch setting

The switchs setting as follows:1.ON 2.OFF 3.ON 4.OFF

Note

Try as far as possible a flat surface for installation. Don't use excessive force when tightening screws, or lower part might got deformed.

4. Connecting method as the following chart

No	Symbo	colour	contents	
1	Α	White or Green	12V	
2	В	Red	Gnd	
3	С	Yellow	СОМ	
4	D			

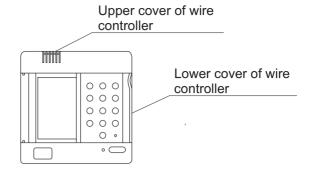
- Use shielede wires for telecommunication between wire controller and indoor unit; indoor unit and outdoor unit. Ground the shield on one side.
- Otherwise misoperation because of noise may occur.
- Signal wire is self-provided by user.

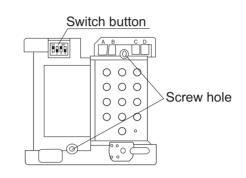
5. Replace the upper cover of wire controller

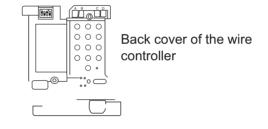
Be careful not to hold down the wiring.

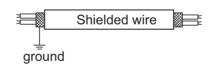
I not to hold down the wiring

Hint 1. Power supply switch and signal wire should be prepaired by the user.2. Don't touch PCB with hand.







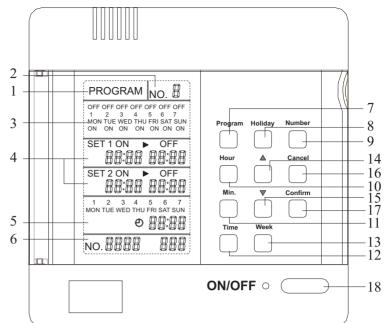




3. Weekly timer YCS-A001

Instruction:

- **1 -** PROGRAM-the display shows the weekly timer timing setting state, and in setting state, the timing information can be adjusted.
- 2 No:8-timing group number: when it is not set timing, there is no timing group number; after setting timing, it will automatically form a group number according to each kind of setting combination, so that in the sequent timing setting, it can execute instant setting by using timing group number.



- **3 -** Setting state and holiday functional area-1 (MON), 2 (TUE), 3 (WED), 4 (THU), 5 (FRI), 6 (SAT), 7 (SUN) are used to indicate the 7 days in a week; the symbol of this part will display after powered on; after set the corresponding weekday's timing function, the ON symbol under the corresponding symbol will display, if not set timing, there will be no display; if not set Holiday function, the OFF symbol on the upside of the indicating symbol will not display, after set Holiday function, the OFF will display and at the same time temporarily the previous timing setting and turn off the air conditioner.
- **4 -** No. 1 group and No.2 group timing setting display area-when entering timing setting state, the contents of timing will flash; choose Date, Hour and Minute to perform increase and decrease adjustment by the adjusting key.
- 5 Time display area-including display the weekday, hour and minute; before setting timing function, please calibrate the current clock.
- 6 Unit number trouble code display area-when the air conditioner in the control network has trouble, the corresponding unit number and the trouble code will display in this area.
- 7 Program

Enter or exit the timing setting in normal condition,

8 - Holiday

Close the units and invalid for timing in no affect on the timing setting condition.

9 - Number

Group setting and timing setting (take one day as a standard unit)

10 - Hour

Timing setting condition and time setting condition, select the adjustment

11 - Min.

Timing setting condition and time setting condition, select the adjustment

12 - Time

Enter and exit the at present date and time condition in normal condition

13 - Week

Timing setting condition and time setting condition, select the adjustment

- 14 -Timing setting condition and time setting condition, increase the setting parameters
- 15 -Timing setting condition and time setting condition, decrease the setting parameters
- 16 Cancel

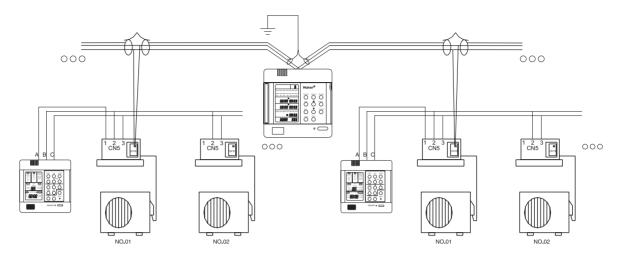
Cancel the present setting before confirm the parameter.

- **17 -** Confirm Confirm the parameter.
- **18 -** ON/OFF Open/close the unit.



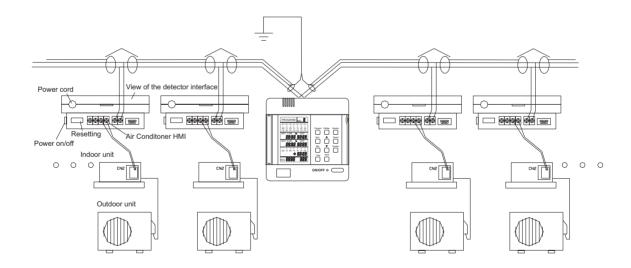
Connecting method

1. Use group controller and weekly timer to realize the group control function + weekly timing function, applicable for the units except for the unit which needs detector to realize the weekly timer function, such as cabinet type, console type.



2. Use weekly timer to realize weekly timing function, applicable for the units which need detector to realize the weekly timer function, such as cabinet type, console type.

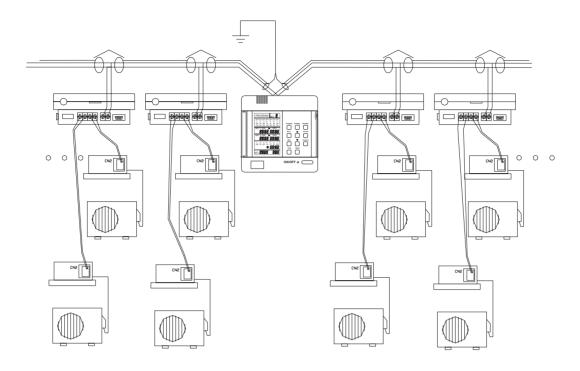
The detector is connected with one air conditioner by the 4-core screw fixed terminals A+ and A- of air conditioner interface, then accordingly set the dial-code switch of the detector in single unit working mode; the address number setting shall be performed according the planned program, for specific setting and corresponding address, please refer to the dial-code switch setting in detector's operation manual; use weekly timer to fulfill weekly timing function, the system needs to be connected with weekly timer; each detector and weekly timer is connected with shielded twisted pair communication bus by the 2-core screw fixed terminals (A and B) of its RS-485 interface; the communication bus must be shielded and grounded, and the resistors in its two ends shall be suited.



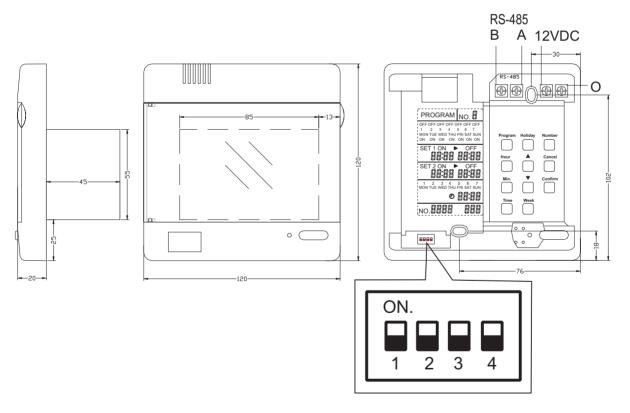
3. Use weekly timer to realize two units auto-changeover function, applicable for the units which need detector to realize the weekly timer function, such as cabinet type, console type.

The detector is connected with two same model air conditioners by the 4-core screw fixed terminals of air conditioner interface; then accordingly set the dial-code switch of the detector in double units working mode, and the double units switch time is default 24 hours; the address number setting shall be performed according the planned program, for specific setting and corresponding address, please refer to the dial-code switch setting in detector's operation manual; use weekly timer to fulfill double units switch weekly timing function, the system needs to be connected with weekly timer; each detector and weekly timer is connected with shielded twisted pair communication bus by the 2-core screw fixed terminals (A and B) of its RS-485 interface; the communication bus must be shielded and grounded, and the resistors in its two ends shall be suited.





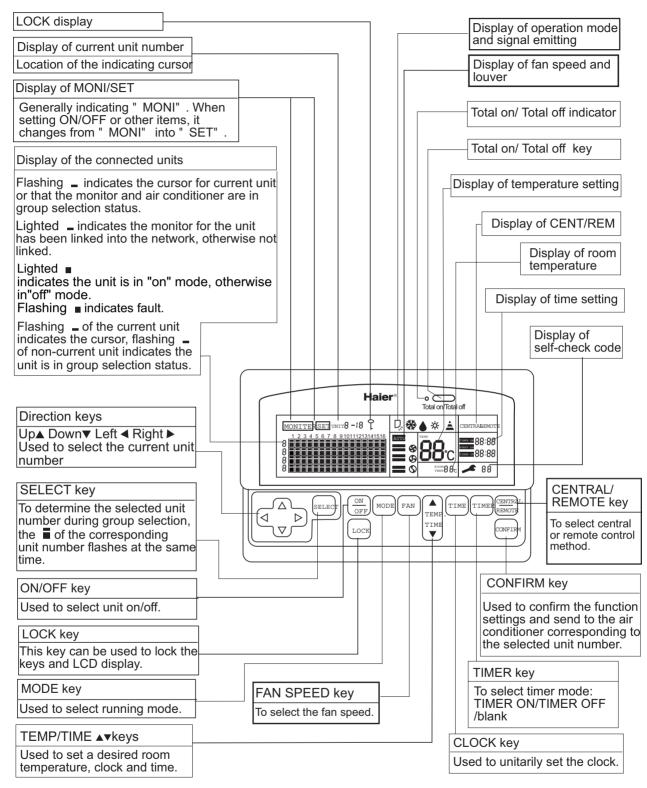
Installation dimensions





4. Central Controller YCZ-A001

Function description:



Note: In MONI mode, pressing SEL, MODE, FAN SPEED, TEMP TIME keys may change the MONI mode into SET mode. If SET key or other keys hasn't been pressed within 10s, it will automatically return to MONI mode.



1. Communication function

Communicate with the indoor PCB in the group control network

To communicate with the indoor PCB through the R S-485 bus (A, B). The central controller sends commands to and receives response from indoor PCB; communication by address enables sending and receiving control information, work information and fault information between indoor PCB and the central controller.

2. LCD display function:

The LCD could display the fundamental status of air conditioning units (are the units existing? On/off? Fault? Are units group selected? Cursor and the current unit no.);

The LCD can display the working status of the air conditioning unit with the current number (mode, fan speed, temperature setting, room temperature, timer, error code, central/remote control status);

The working status of the central controller (monitor/set status, panel locking status, signaling status).

3. Key input function:

The keys for moving the current unit number cursor and for group selection: ▲, ▼,▶,◄, SELECT;

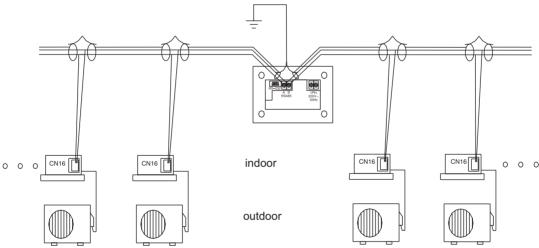
The keys for setting working status of the air conditioning unit and control conditions: ON/OFF, MODE, FAN SPEED, TEMP, TIME ▲/▼, CLOCK,TIMER, CENT/REM, SET;

The key for locking key function of the central controller: LOCK.

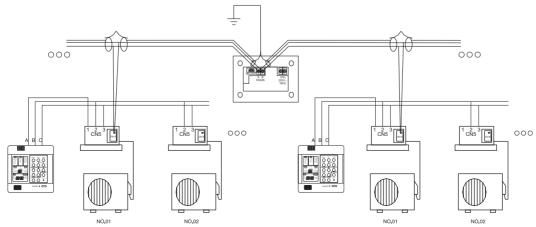
4. Unit number setting function:

To enrich the control functions of Haier commercial air conditioner remote monitoring system, multiple controllers could be set to work together for a combination of multiple functions. For this, the central controller is provided with a two-digital switch for setting controller address.

5. Realizing central control function with the central controller(max.128 indoor units can be connected) this type is applicable for the unitary free indoor units except for cabinet type.

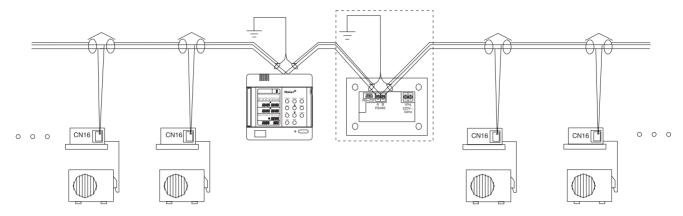


6. Central control system + Group control system(max.128 x16 indoor units can be connected),this type is applicable for the unitary free indoor units except for cabinet type.

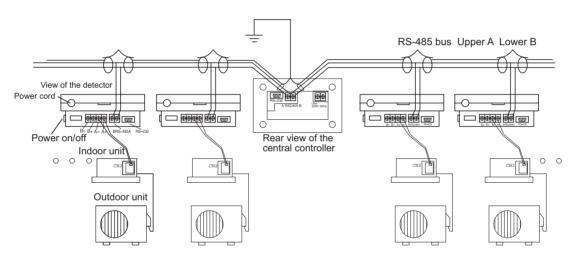




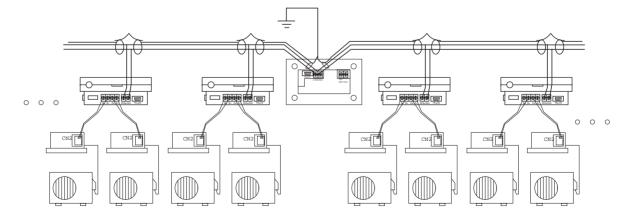
7. Use central controller + weekly timer to realize the group control function + weekly timing function, this type is applicable for the unitary free indoor units except for cabinet type.



8. Realizing group control function with the central controller, for the unit which needs the detector, such as cosole unit, cabinet units.



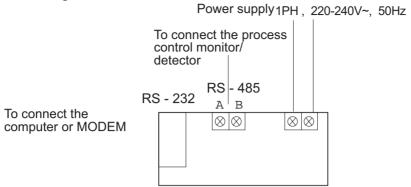
9.Realizing double unit switch-over group control function with the centralcontroller, for the unit which needs the detector, such as cosole unit, cabinet units.





Installation procedure

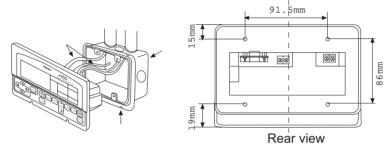
1. Wire connecting



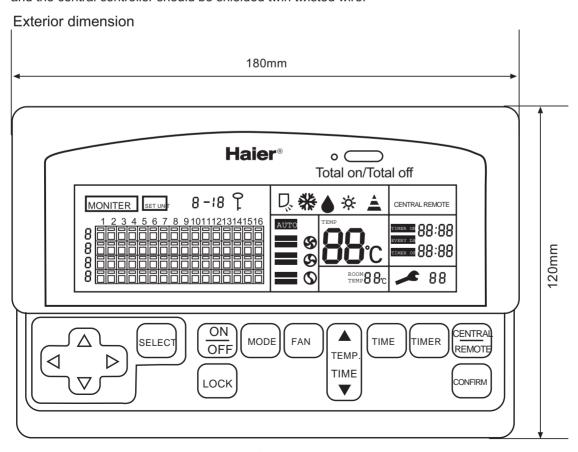
2. Installation method

A wiring box cover must be used.

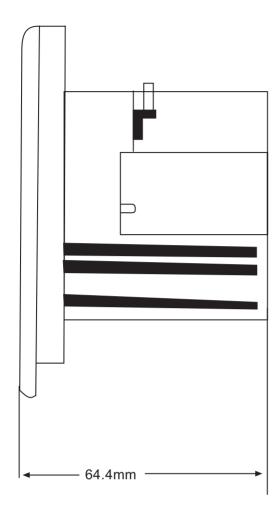
The central controller shall be installed into the installation box built in the wall fastening with 4 screws (as shown).



Note: Please confirm the supply voltage of AC220-240V and correct wiring. In application environment with intense electromagnetic interference, the central controller should be shielded, while the connecting wire between the monitor and the central controller should be shielded twin twisted wire.







As illustrated:

(Figure 1 is the front view and Figure 2 is the side view) The central controller is 180mm long, 120mm wide and 64.4 mm thick.

(Fig.2)



Appendix - Control data

	Туре	Model	PCE	PCB code	
Series			indoor	outdoor	controllor code
		HBU-18CF03	0010452475	none	YR-H71
		HBU-18HF03	0010452475	none	YR-H71
		HBU-28CF03	0010452475	none	YR-H71
		HBU-28HF03	0010450363	none	YR-H71
	4-Way Cassette	HBU-28CH03	0010452036	none	YR-H71
		HBU-28HH03	0010450363	none	YR-H71
		HBU-42CF03	0010452036	none	YR-H71
		HBU-42HF03	0010452035	none	YR-H71
		HBU-42CH03	0010452567	0010451429	YR-H71
		HBU-42CI03	0010452567	0010451429	YR-H71
		HBU-42HI03	0010452567	0010452441	YR-H71
		HCFU-18CF03	0010400020	none	YR-H71
		HCFU-18HF03	0010400019	none	YR-H71
	Floor Ceiling	HCFU-28CF03	0010451167E	none	YR-H71
		HCFU-28HF03	0010451167E	none	YR-H71
it.		HCFU-42CF03	0010451167E	none	YR-H50
R22 Single split		HCFU-42HF03	0010451167E	none	YR-H50
S S		HCFU-42CH03	0010451167E	0010451429	YR-H50
Jе		HCFU-42HK03	0010451167E	0010452441	YR-H50
Dû		HDU-18CF03	0010400662	none	YR-E06
Si	Duct	HDU-18HF03	0010450010	none	YR-E06
7		HDU-28CF03	0010400136	none	YR-E06
32		HDU-28HF03	0010450364	none	YR-E06
		HDU-42CF03/H	0010400136	none	YR-E06
		HDU-42HF03/H	0010450364	none	YR-E06
		HDU-42CH03/H	0010452032	0010451429	YR-E06
		HDU-42CI03/H	0010452032	0010451429	YR-E06
		HDU-42HK03/H	0010452032	0010452441	YR-E06
		HDU-50HT03/H	0010400132	0010452441	YR-E06
		AD96NAHAEA	0010400132	none	YR-E06
	Outdoor	AU96NATAEA	/	0010452326E	/
	Cabinet	HPU-42CF03	0010452620	none	YR-H71
		HPU-42HF03	0010451289	none	YR-H71
		HPU-42CV03	0010452322	0010451429	YR-H49
		HPU-42HV03	0010452322	0010452441	YR-H49
		HPU-48HV03	0010452322	0010452441	YR-H49
		HPU-42CH03	0010451432	0010451429	YR-H71
		HPU-42HI03	0010451432	0010452441	YR-H71
		AP96NACAEA	0010452039	none	YR-H71