

Domestic Air Conditioner

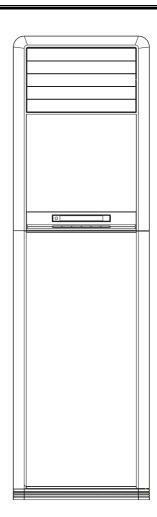
SERVICE MANUAL

MODEL:

HPU-18C03/VA(ZXF)

Features

- Highly efficient and energy saving.
- 15-meter long-distance airflow.
- High luminous LED display technology.
- Powerful operation, fast temperature adjusting.



Edition: 2005-12-12



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Features

1.comfortable:wide-angle airflow

The vertical dual-flap and horizontal wide-angle louvers ensure the cool(warm air reaches every corner of the room.

Model: HPU-18C03/VA(ZXF)

2. Health air purifying

An air purifying filter with deodorizing and disinfecting functions keep the air clean and users healthy.

3. Quiet operation

Fan With Random-pitched Blades.

Random-pitched blades help reduce operating noise while maintaining a high airflow rate.

4. Engergy efficient

The design of inner-grooved copper tube greatly increases the refrigerant contact area and the efficiency of cooling/heating functions.

5.Convenience

Auto restart and washable panel:

The grille can be removed easily and washed when necessary. Any series have the function then even if the power falls when the unit is operating unit will automatically return to the operating settings in use before the power failure when power is restored.

6. Wide variety of functions

24-Hour Timer:

24-hour timer allows users to select the exact time they would like the air conditioner to turn on and to turn off. Timers on previous models operation based on the number of hours of desired operation.

7. Night-set models

When the air conditioner is operationg on the timer-off circuit. The preset room temperature gradually rises (going down in heating) before the unit stops as shown delow. Users can sleep comfortably without sudden change in temperature.

8. Program" dry"

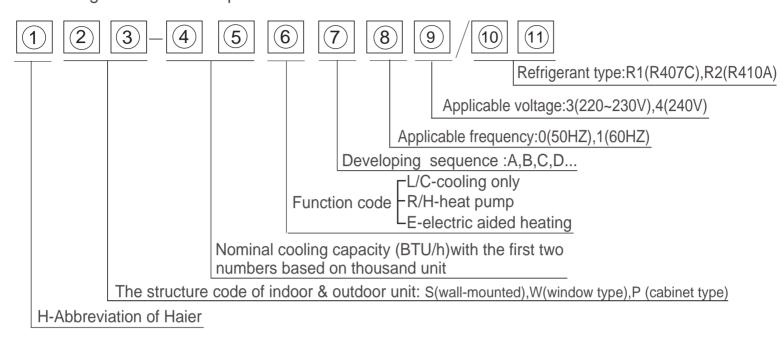
This function automatically reduces the level of humidity while maintaining the preset indoor temperature.

Description of product model coding and series introduction



Introductory Remarks

A. Description of coding rules of unit model Coding rules and descriptions are as follows:



Examples:

HPU-18C03/VA(ZXF), It represents cabinet split type cooling pump air conditioner. The cooling capacity is 18000BTU/h, and the power supply is 220V/50Hz, and the refrigerant is R22.

B.Standard Situation/Conditions

	0 " "	indoor air status		outdoor air status	
No.	Operating condition	DB°C	WB°C	DB℃	WB°C
1	Norminal cooling	27°C	19°C	35℃	24°C
2	Norminal heating	20°C	not control	7°C	6℃
3	Norminal electrical heating				



Specifications



Model: HPU-18C03/VA(ZXF)

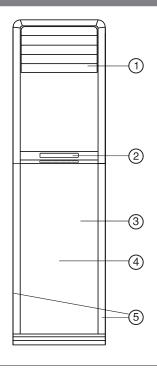
Cooling capacity(W)		5000	Heating capa	city(W)	
Cooling coefficient(W//	V)	2.63	Heating coefficient(W/W)		
Cooling power input(W)	1900	Heating pow	ver input(W)	
Moiture removal(m /h)		2.95X10 ⁻³	Frequency		50
Operating voltage range (V)	220V	Refrig	erant type	R22
Operating temp. range	(°C)	18~43	Air sending ar	nale	60°
		+1	7 th containing an	indoor unit	Acentric-Fan
Variation of temp. adjus	st (^O C)		Fan type	outdoor unit	Axial flow fan
Climate type:		T1	Class of elec	tric shock	1
Indoor unit noise		46/43/36	Outdoor unit r	noise	52
Net dimensions mm (indoor unit)		502*271*1705	Net dimension (outdoor unit)	ons mm	780*245*540
Packaging dimensions (indoor unit)	mm	615*355*1840	,	imensions mm	930*340*614
Net/gross weight (kg) (indoor unit)		37/42	Net/gross weight (kg) (outdoor unit)		47/47
			Piling layers	indoor unit	8
Max. mounting height difference(m)		10		outdoor unit	4
Refrigerant charge(g) (R22)		1250	Current enter		Indoor
Frequency of filter clear	ning	Once/2 weeks	Compressor manufacturer		MITSUBISHI
Compressor model		TH338VEEC	Compressor o	il type	SUNISO 4GSD
Compressor oil charge	e (ml)	480	Compressor p	protector type	INSIDE
Maxi. length of connect pipe (m)	ing	15		length(mm)	2000
Refrigerant recharged(Length of connecting pipe is more		18g per meter	drain hose	diametre(mm)	16
than 5 meter) Cap. tube type muffle model:			Internal treaded		
Fan speed(H/M/L)(r/min)		470420/360	Size of tube of evaporator and		Dia. 6.35/12.7
(indoor unit) Fan speed(r/min) (outdoor unit)		850	condenser(mm) Appearance features of indoor unit		Horizontal grill
,	two-way	1/4	Appearance features of outdoor unit		Iron casing
Cut-off vavle(inch)	three-way	1/2			
Max. operating pressure warm side(Mpa)	e at	2.65	Max. operating pressure at cool side(Mpa)		0.65

Description, dimension and function of main components and accessories



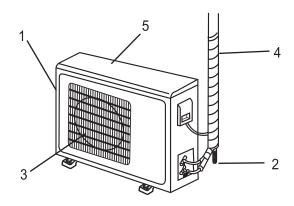
Parts and Functions

Indoor unit



- 1.OUTLET
- 2.CONTROL PANEL
- 3.INLET GRILLE
- 4.AIR FILTER(inside)
- 5.INLET

Outdoor unit



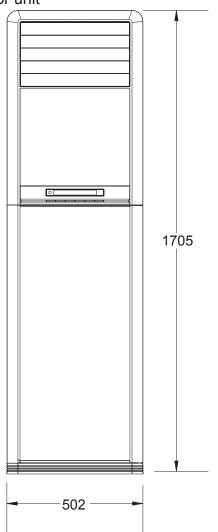
- 1.INLET
- 2.DRAIN HOSE
- 3.OUTLET

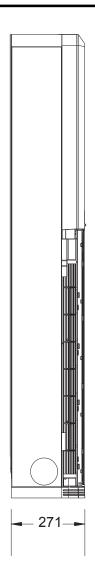
- 4.CONNECTING PIPING AND ELECTRICAL WIRING
- 5.INLET



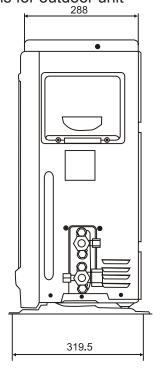


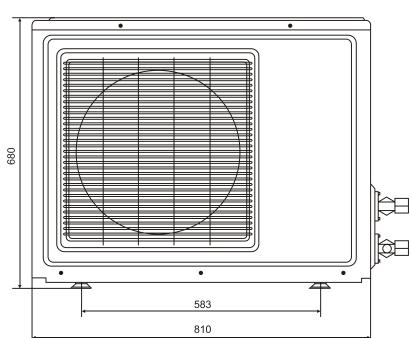
Net dimensions for indoor unit





Net dimensions for outdoor unit

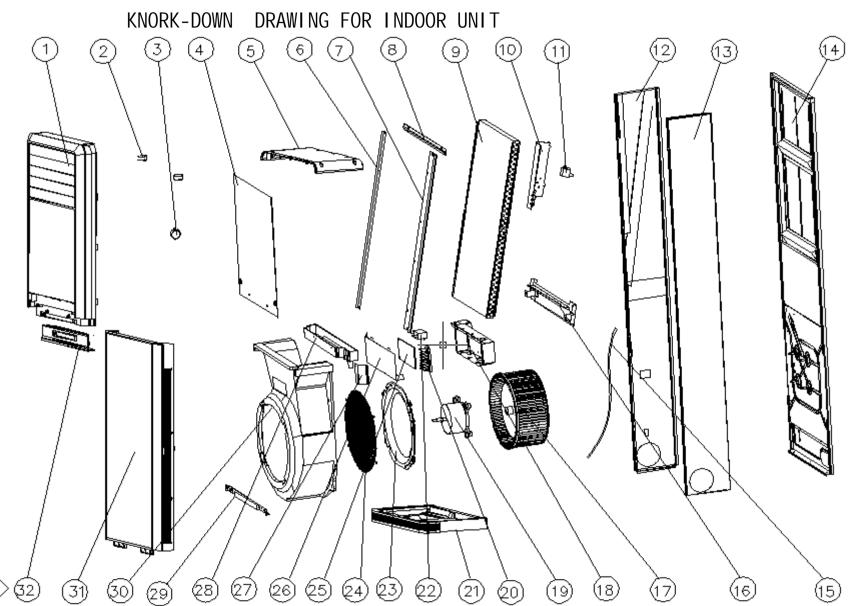




Knock-down drawings



HPU-18C03/VA(ZXF)

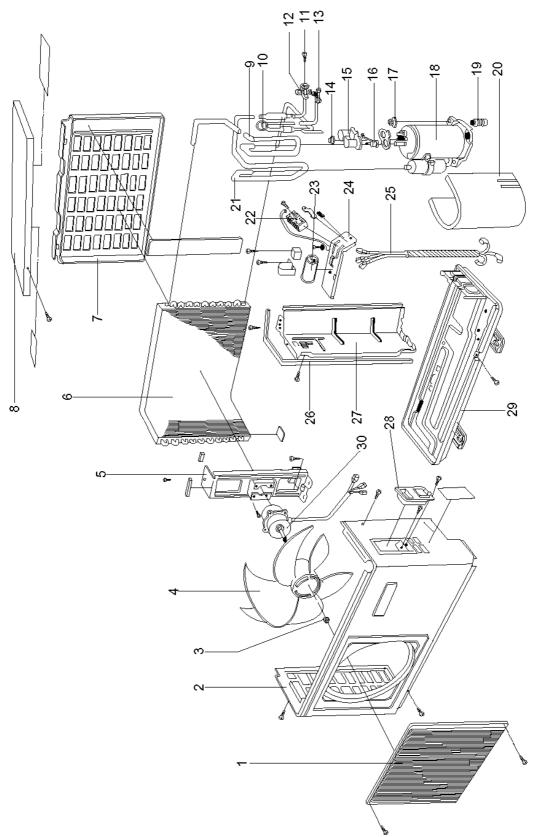




MODEL:	HPU-18C03/VA(ZXF)			INDOOR	UNIT	
NO. In exploded view	Name of part	Part code	QTY.	Unit price(US)	Replacemen t parts list	remark
1	Panel assy.	0010805554	1	15. 66		indoor unit
2	Swing motor(left and right)	0010401346	2	1.08		indoor unit
3	Swing motor(up and down)	0010402899	1	1. 15		indoor unit
4	Cover assy.	0010805497	1	5. 75		indoor unit
5	Copi ng assy.	0010203614	1	1.85		indoor unit
6	Fixup board(left)	0010100865	1	0. 21		indoor unit
7	Fixup board(right)	0010100866	1	0.49		indoor unit
8	Fixup board(up)	0010100863	1	0. 11		indoor unit
9	Evaporator assy.	0010707369	1	30.80		indoor unit
10	Decorating board	001A0100871	1	0. 28		indoor unit
11	Negative ion generator	001A3100160	1	1.51		indoor unit
12	Side plank assy.(left)	0010851264	1	6. 52		indoor unit
13	Side plank assy. (right)	0010851265	1	6. 52		indoor unit
14	Side plank assy. (back)	0010801529	1	10.69		indoor unit
15	Sensor	0010400491	1	0.68		indoor unit
16	Splint assy.	0010801478	1	0.67		indoor unit
17	Fan	001A0300016A	1	4.62		indoor unit
18	Electric box	0010801477	1	1.72		indoor unit
19	Fan motor	0010401569	1	15. 68		indoor unit
20	Terminal block	001A4000160	1	0.66		indoor unit
21	Bottom plate assy.	0010203632	1	4. 10		indoor unit
22	Capacitor for fan motor	001A3600018	1	0.55		indoor unit
23	Fan circle	0010201758	1	0.73		indoor unit
24	Fan frame	0010201758	1	0.73		indoor unit
25	PCB	0010403392	1	11. 78		indoor unit
26						
27	Electric box cover	0010100861	1	0.53		indoor unit
28	Drain pan assy.	0010801443	1	2. 10		indoor unit
29	Vortex shuck cover	0010100867	1	0. 16		indoor unit
30	Vortex shuck assy.	0010801445	1	2. 21		indoor unit
31	Inlet grille assy.	0010805555	1	18. 38		indoor unit
32	Display assy.	0010806595A	1	19. 20		indoor unit



HPU-18C03/VA(ZXF) KNORK-DOWN DRAWING FOR OUTDOOR UNIT





OUTDOOR UNIT MODEL: HPU-18C03/VA(ZXF) NO. In Unit Replacement exploded Name of part Part code QTY. remark price(US) parts list view Front grille 1.64 001A1436043A 1 outdoor unit 1 2 Front panel 001A1101077 1 4.69 outdoor unit 3 Nut 001A5102021 1 0.01 outdoor unit 2.07 4 Axial fan 001A2331030A 1 outdoor unit 5 Bracket for fan motor 0010802391 1.28 outdoor unit 6 Condenser 0010705439 49.30 outdoor unit 1 7 Back grille outdoor unit 8 Panel (top) 001A1101010 1.83 outdoor unit 9 Discharge tube 0010704101 1 1.19 outdoor unit 1.27 10 0010705264 1 Capillary assy outdoor unit 11 Screw 001A5002001 4 0.01 outdoor unit 12 Service valve 0010705949 1 1.99 outdoor unit 13 Service valve 0010705947 1 1.15 outdoor unit 14 Nut 1 outdoor unit 15 Service Cover 1 outdoor unit 16 Protector for compressor 1 outdoor unit 17 001A5102050 1 0.01 Nut outdoor unit 18 Compressor 0010701856 1 73.63 outdoor unit Rubber cushion 19 outdoor unit 20 None outdoor unit 21 Suction tube 0010704102 2.39 outdoor unit 1 outdoor unit 22 Terminal block 001A4000092 1 0.44 Capacitor for compressor 1 2.91 23 001A3600030 outdoor unit 24 001A1301023 0.53 Electric box 1 outdoor unit 25 Wire group 1 outdoor unit 26 27 Cushi on 1 1.79 001A0100030 outdoor unit 28 Service cover 001A1436042 1 0.12 outdoor unit 29 7.57 Bottom plate 0010802393 1 outdoor unit 30 1 9.45 Fan motor 0010402624 outdoor unit



Brief introduction to electrical control function



1. Run mode:

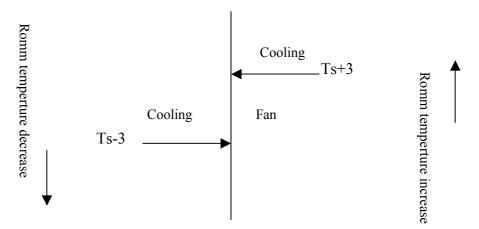
1.1 automatic run mode

The tricolor indicator is white.

When the system runs under "automatic" mode for the first time, it will determine the operating mode according to the follows, ("Tr" stands for room temperature, and "Ts" for set temperature.)

Tr Ts+3 Choose Cooling mode
Tr<Ts-3 Choolse Fan Mode

The system will shift its operating mode between the above mentioned three to changes of the room temperature. If the system is currently under cooling mode, it will switch to fan mode when Tr < Ts - 3; if the system is currently under fan mode, it will in turn switch to cooling mode when Tr > Ts + 3. The switching mode as below:



The indoor temperature is determined by the set temperature (accuracy: set temperature ± 1).

1.2 Cooling run mode:

- * Tricolor indicator is blue.
- *temperature control range: 16 —30
- *temperature control precision: ±1
- *compressor can' be controlled by temperature sensor within 2minutes after it starts.
- *control character: when Tr (inlet air) $\geq Ts$ (temperature setting), outlet air from compressor is on and indoor fan motor run at fixed wind speed. When Tr (inlet air) < Ts (temperature setting), outlet air from compressor is off, and when Tr > Ts, outlet air from compressor is on.

*wind speed control:

auto: when $Tr \ge Ts + 3$, the wind speed is high;

when $Ts+1 \le Tr < Ts+3$, the wind speed is medium.

When Tr<Ts+1 , the wind speed is low.

When temperature sensor is off, the fan motor runs at low speed.

Manual operation: When unit is on the wind speed can be set to high, medium, low or automatic as required *compressor control: The compressor can' be controlled by temperature sensor within 2 minutes after startup and can be only restarted at least 3 minutes later after shutdown. There is no 3-minute protection with power on for the first time (over 3 minutes with power off). The compressor must stands by for 3 minutes before it is restarted after shutdown.

*There is no 2-minute limit when changing the temperature setting or shutting down the machine through the remote controller, and the machine can be shut down immediately.



- * Avoiding electrical shock: outlet air is available 2 seconds later after startup.
- *Controlling the position of air door: set the position of air door as required.
- *Protection of temperature expiration is available: The compressor and outdoor fan motor will be shut down when the indoor temperature is above 72 and lasts 2 seconds. Only when 3 minutes pass by after shutdown and the temperature of coil pipe is below 64 , can the compressor be started, and indoor fan motor is controlled as the temperature sensor is off.

*Protection of expiration of current peak value is available: Current cross detection is available in order to avoid burning out the compressor when the current is too big. The action character as follows:

The compressor can' be detected in 60 seconds after startup. when current is above 21A

and lasts 3 seconds, the system enter protection mode and shut off compressor with outdoor air blower and indoor fan motor controlled as the temperature sensor is off. After 3 minutes the machine can be started again.

*Protection of frost is available (disable in test run or heating mode): In order to prevent the indoor heat exchanger from freezing (in refrigation or dehumidifying mode), the compressor will be shut off when the temperature of the indoor coil pipe is or below 0 and the compressor runs for over 5 minutes. When the temperature of the indoor coil pipe ascends to over 7 , the compressor is restarted (must meet a 3-minutes delay)

*Timer on, Timer off and sleep control are available.

- 1.3 Dehumidifying mode: (the temperature difference is 1)
 - * Tricolor indicator is watercolorful.
 - *Temperature control range: 16 —30 .
 - *Temperature control precision: ±1 .
 - *control character:
 - When Tr (indoor temperature) > Ts (temperature setting) +2 , compressor and outdoor fan motor run continuously with indoor fan motor runnig in accordance with the wind speed setting.
 - When Tr ranges from Ts to Ts +2 , outlet air from compressor is on for 10 minutes and off for 6 minutes, the indoor fan motor is off in 3 minutes after shutdown of compressor and gives breeze in other time.
 - When Tr < Ts, outlet air from compressor is unavailable, and the indoor fan motor enter breeze mode 3 minutes later after shut down of compressor.

*Wind speed control:

Automation: When $Tr \ge Ts + 5$, the wind speed is high.

When $Ts+3 \le Tr < Ts+5$, the wind speed is medium.

When $Ts+2 \le Tr < Ts+3$, the wind speed is low.

When $Ts \le Tr < Ts + 2$, the machine gives breeze intermittently.

When Tr < Ts, there are 3 minutes to stand by before the indoor fan motor is shut off.

When Tr < Ts, there are 3 minutes to stand by before entering of breeze from outside.

Manual operation: When the temperation sensor is off or the indoor fan motor runs intermittently, the indoor fan motor can not be operated by hand (compelling automatic operation), along with the indoor fan motor can be operated in cooling mode. While controlling fan motor by hand in cooling mode, the cooling ranges include wind speed setting and refriferation range, others are the same as fan motor in automation mode.

^{*}compressor control: The compressor can' be controlled by temperature sensor in 2 minutes after



startup and also can't be started again at least 3 minutes later after shutdown. There are 3-minutes protection with power on for the first time (over 3 minutes with power off). The compressor must be started again 3 minutes later after shutdown.

- *There is no 2-minutes limit when changing the temperature setting or shutting off the machine through the remote controller, and the machine can be shut down immediately.
- *Avoiding electrical shock: outlet air is available 2 seconds later after startup.
- *Controlling the position of air door: set the position of air door as required.
- *Protection of temperature expiration is available: The compressor and outdoor fan motor will be shut down when the indoor temperature is above 72 and lasts 2 seconds. Only when 3 minutes pass by after shutdown and the temperature of coil pipe is below 64 , can the compressor be started, while indoor fan motor is controlled as the temperature sensor is off.
- *Protection of frost is available: In order to prevent the indoor heat exchanger from freezing, the compressor will be shut off when the temperature of the indoor coil pipe is or below 0 and the compressor runs for over 5 minutes. When the temperature of the indoor coil pipe ascends to over 7, the compressor is restarted (must meet a 3-minutes delay)
- *Timer on, Timer off and sleep control are available.

1.3 Fan mode

- * Tricolor indicator is yellow-green
- * When the system runs under "fan" mode, compressor, 4-way valve and outdoor fan motor are off, the indoor fan motor running in accordance with the fan speed setting.high, medium and low speed is available.

2. Control function:

- 2.1Timer function: You can set 24-hour timer on or timer off as required, and the minum time unit is 1 minute.

 After setting, the indicator of indoor unit is on , and it is off when timer setting is completed. There are several timer mode as follows.
 - Timer on: Unit get off, when reaching time setting, unit starts . sleep setting is not allowed.
 - Timer off: Unit runs. When reaching time setting, unit enters shutdown mode, and sleep function can be set. If timer off and sleep are set synchronously, the one which time is short run first. Executing shutdown instruction clear timer and sleep function.
 - Timer on and timer off can be set synchronously.
- 2.2 Sleep function (saving function at night): the timer indicator lights up.
 - In cooling/defrosting mode, the temp. setting increases 1 one hour later after startup. After another hour the temp. setting increase by more 1 and then run continuously for another 6 hours and then close.
 - The fan speed is low when sleep function is set.

2.3 Emergency switch imput:

- Press the switch of emergency operation, then buzzer rings once and unit enters the automatic operation mode. (emergency operation)
- If the switch is kept pressed for 5 seconds, buzzer ring two times and unit enter test run mode.
- Press the switch again, and then closes.
- The unit can receive remote control.
- Enter emergency operation from timer mode, then timer is cancelled.
- Test run:
 - 1) The temperature sensor of inlet air doesn' twork, and compressor starts ,high wind, the units runs cooling mode.



- 2) During test run:
 - The prevention of freezing of evaporator doesn't wrk.
 - Current cross control doesn' twork.
 - The control of current cross peak expiration doesn' twork.
 - Temperature control doesn' twork.
 - Temperature expiration control doesn' twork.
- 2.4 The new function of air purifying:

When receiving the remote signal of air purifying after startup, the tricolor indicator is green. Once the fan motor starts, chip output a row of high level to drive the air purifying generation circuit, and purify air.

Model: HPU-18C03/VA(ZXF)

2.5 Memory funtion of work status: After power on and the unit is started, and then shut off the unit, the system should memory the run mode before shutdown.

3.express mode of malfunction:

Abnormal mode	Malfunction code
Indoor temp.sensitive resistance abnormal	E1
Indoor temp.sensor resistance of heat exchanging abnormal	E2
Communication of main-board and control-board abnormal	E8

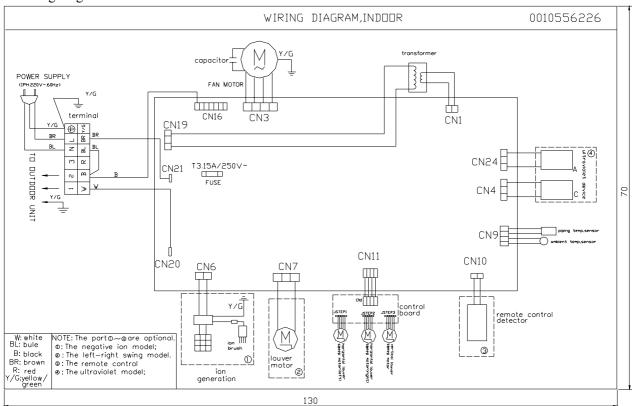


WIRING DIAGRAM

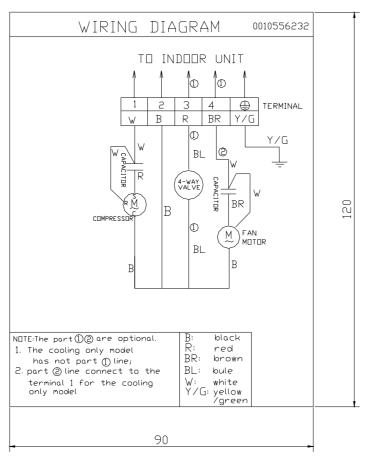


5. Wiring diagram

5.1 Wiring diagram indoor



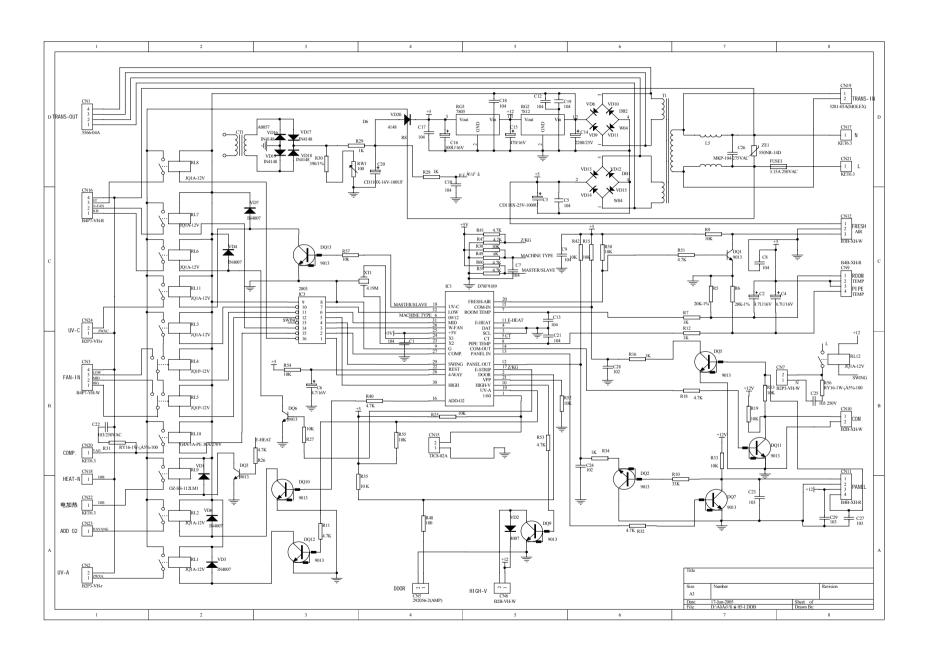
5.2 Wiring diagram outdoor





CIRCUIT DIAGRAM







ABNORMITY DIAGNOSE

Model: HPU-18C03/VA(ZXF)



Abnormality diagnosing

- a.The temperature sensor of coil pipe of indoor unit is in short circuit or broken circuit, the timing indicator of indoor unit is on, the power indicator is flickered in 1Hz;
- b. The rom temperature sensor of indoor unit is inshort circuit or broken circuit: the timing indicator of indoor unit is off, the power indicator is flickered in 1Hz;
- c. The motor of indoor unit has nor backfeed of signal, the power indicator of indoor unit and running indicator are flickered twice, then the power indicator, running indicator and timing indicator are all flickered for 1 second, then repeating the cycle.



TROUBLE SHOOTING

Trouble shooting

Before asking for service, check the following first.

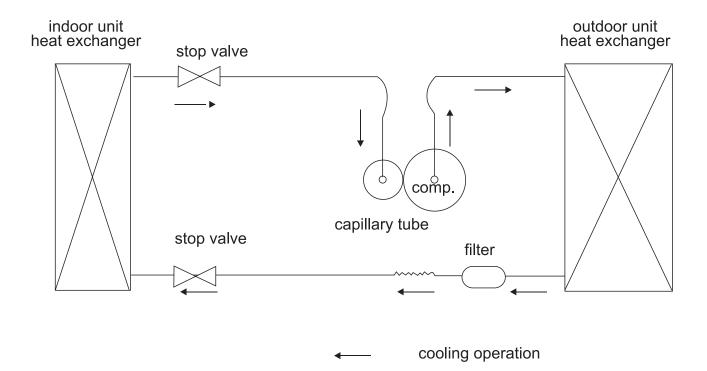
	Phenomenon	Cause or check points
	The system does not restart immediately .	 When unit is stopped, it won't restart immediately until 3 minutes have elasped to protect the system. When the electric plug is pulled out and reinserted, the protection circuit will work for 3 minutes to protect the air conditioner .
Normal Performance inspection	Noise is heard:	 During unit operation or at stop, a swishing or gurgling noise may be heard. At first 2-3 minutes after unit start, this noise is more noticeable. (This noise is generated by refrigerant flowing in the system.) During unit operation, a cracking noise may be heard. This noise is generated by the casing expanding or shrinking because of temperature changes. Should there be a big noise from air flow in unit operation, air filter may be too dirty.
	Smells are generated.	This is because the system circulates smells from the interior air such as the smell of furniture, cigarettes.
	Mist or steam are blown out.	During COOL or DRY operation, indoor unit may blow out mist. This is due to the sudden cooling of indoor air.
Multiple check	Does not work at all.	Is power plug inserted?Is there a power failure?Is fuse blown out?
	Poor cooling	 Is the air filter dirty? Normally it should be cleaned every 15 days. Are there any obstacles before inlet and outlet Is temperature set correctly? Are there some doors or windows left open? Is there any direct sunlight through the window during the cooling operation?(Use curtain) Are there too much heat sources or too man people in the room during cooling operation?



REFRIGERATING-CYCLE DIAGRAM



Refrigerating cycle diagram

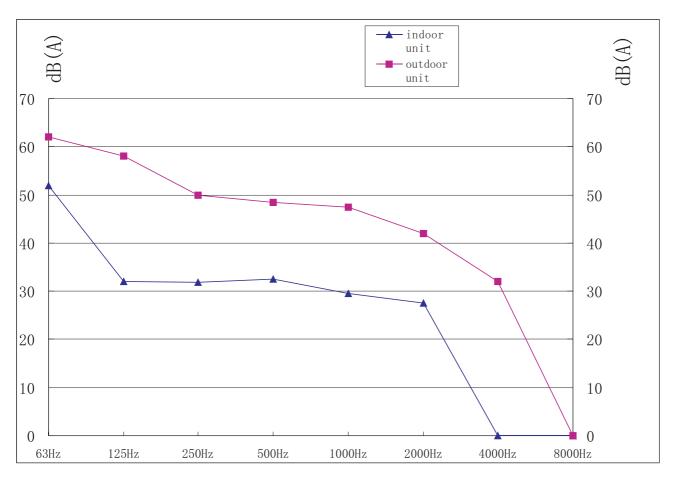


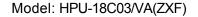


NOISE LEVEL TEST CHART & AIR VELOCITY DISTRIBUTION



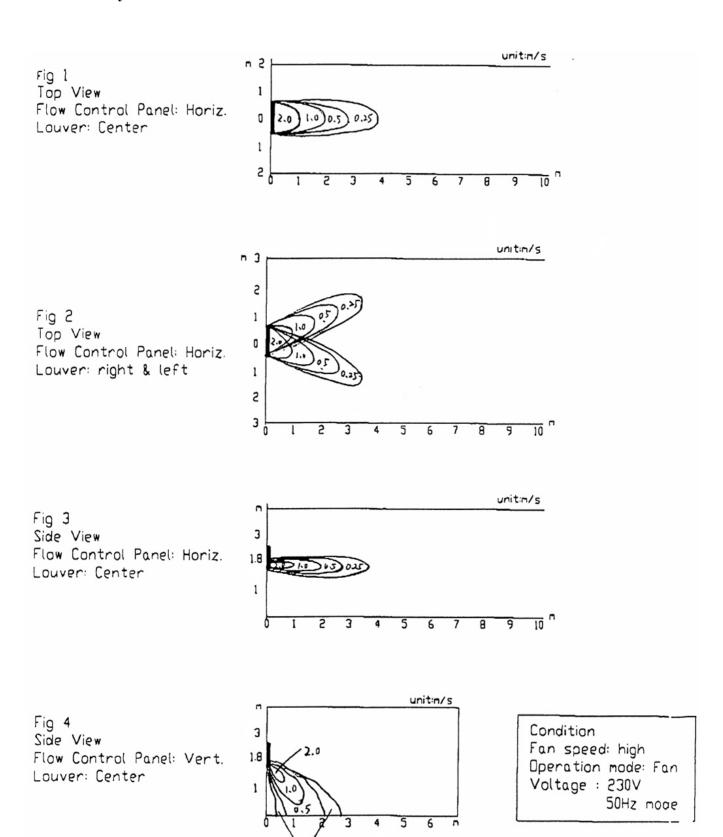
A. Noise level test chart







B.Air velocity distribution





Installation manual



Manual of Room Air Conditioner Installation

Tool necessary

- 1. Screw driver
- 2. Hacksaw
- 3. 70mm dia.hole core drill
- 4. Spanner(dia. 17,27mm)
- 5. Spanner(14,17,19, 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

Standard accessories

Following parts shall be field supplied

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

No.	Shape and description	QTY
1	Remote controller	1
2	Cement nail	3
3	Connecting pipe	2
4	Drain hose	1
5	Wire clip	4
6	Insulation pipe	2
7	Wall hole cover	1
8	Piping hole cover	1
9	Dry battery #7	1
10	Rubber pad	4
11)	Non-adhensive tape	1
12)	signal hose	1

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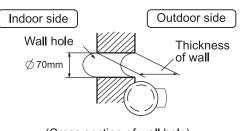
Fixing of the unit

1. Position of the wall hole

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

2. Making a wall hole

Drill a hole of 70X70mm dia. with a little slope towards outside.



(Cross section of wall hole)



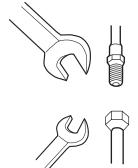
Installation Manual of Room Air Conditioner

3. Piping connection

Connecting method

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

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



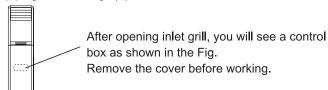
Forced fastening without careful centering may damage the threads and cause a leakage of gas.

Model: HPU-18C03/VA(ZXF)

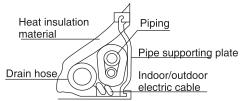
Pipe Diameter (ϕ)	Fastening Torque
Liquid Side 6.35mm(1/4")	18N.m
Gas Side 12.7mm(1/2")	55N.m

Piping connection of the indoor unit

1. 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 connection 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 hoes through wall hole to connect with outdoor unit.

2. Arrangement 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 installation material.



Installation Manual of Room Air Conditioner

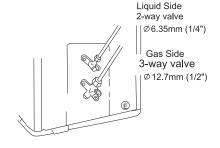
 Piping connection of the outdoor unit Connecting the connecting pipe and inlet and outlet liqued pipe according to the piping method.

Purging Method:

Push the air out of the indoor unit and piping as followes:

- (1) Remove the valve cap on 2-way valve in outdoor unit.
- (2) Loosen by 1/2 turn the flare nut of gas pipe, which is conneted to 3-way valve.
- (3) Loosen 2-way valve by 900 using hexagon wrench, and after approx. 6 sec tighten it up. Gas comes out through flare nut on wide pipe. If no gas is discharged, tighten flare nut with specified torque.
- (4) Open 2-way and 3-way valves using specified torque.
- (5) Tighten the caps on the valves with specified torque.

	Tighten torque N.m
Valve	7-9
Valve	20-25



Note: When additional refrigerant is necessary, first purge air out of connecting pipe by external gas, then drive out the excessive rerigerant by purging method.

Brand new unit is charged 80g more refrigerant than spec. This is only for first instaltion to purge air in the indoor unit and connecting pipe.



Installation Manual of Room Air Conditioner

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

Pipe length	5m	10m	15m
Refrigerant charge(g)		90	180

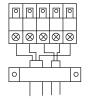
Electric wiring

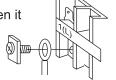
Note:

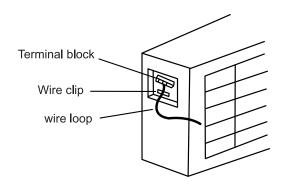
- Electric wiring must be done by qualified person.
- Use copper wire only.
- The parameter of the connecting cable is H07RN-F3X0.75mm²+2X0.75mm².

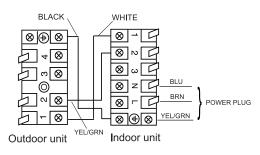
Wiring of indoor unit

- Insert the cable from outside the wall hole where piping already exist.
- Pull it out from front.
- Losen 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: User should prepare the part in the dashed frame by himself.

Wiring of outdoor unit

- Insert the cable from inside the wall hole where piping already exist.
- 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 control or cause operation failure.



Installation Manual of Room Air Cond

Others

1. Power supply

Air conditioner must use an exclusive line(over 30A) and there is not power p the type of power supply wire is H05VV-F3G4.0mm².

When installation air conditoner in a wet place, try to use a circuit breaker ag leakage.

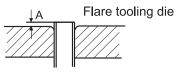
For installation in other palces, use circuit breaker as far as possible.

2. Piping cutting and flaring

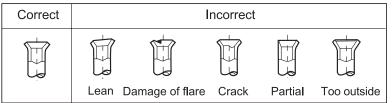
lug with this type,

Be sure to carry out deburring after cutting with a pipe cutter. Insert flaring tool to make a flare.

ainst Current



	Pipe diameter ϕ	Size A (mm
Liquid pipe	6.35mm(1/4")	0.8 ~1.5
Gas pipe	12.7mm(1/2")	1.2 ~2.0



	1	I	44	
ınstallation	inspection	and	test	run:

Please operate unit according to this Manual.

Items to be checked during test run. Please made a " $\sqrt{}$ " in " \square "

I	Are there	any das	leakage?
		aliv uas	icanauc:

\neg	How is	insulation	at nining	connection	carried out?
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Are electric wires of indoor and outdoor unit firmly inserted into terminal block?

☐ Is electric wiring of indoor and outdoor securely fixed?

Is drainage 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?

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