

Engineering Data SPLIT

- Cooling Only -

D-Series





DAIKIN INDUSTRIES, LTD.

Split - System Room Air Conditioners D - Series

		Cooling Only	FT25DVM FT35DVM	R25DV1 R35DV1	
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Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
 If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided and choose an outdoor unit with anti-corrosion treatment.

1. Features



Paret		New Stylish Flat Design harmonizes with interiors and the simple design does not make you feel the existence of A/C in your room.
Sophisticated edge	Simple display	Straight line
		05RAG04- 5









\sim	Outdoor Unit	New	Current	
Indoor U	nit	R25/35DV1	R25/35JV1	
New	FT25/35DVM	0	×	
Current	FT25/35BAVM	×	0	

2. Power Supply

Indoor Units	Outdoor Units	Power Supply
FT25DVM	R25DV1	14 220/2401/ 5047
FT35DVM	R35DV1	Tψ, 220/240V, 30Hz

Notes: Power Supply Intake ; Outdoor Unit

3. Functions

Category	Functions	FT25-35DVM R25-35DV1	Category	Functions	FT25-35DVM R25-35DV1			
	Inverter (with Inverter Power Control)	-						
De sie Eurotien	Operation Limit for Cooling (°CDB)	19.4 ~46	-	Virustatic Functions	_			
Basic Function	Operation Limit for Heating (°CWB)	—		Photocatalytic Deodorizing Filter	—			
	PAM Control	_		Air Purifying Filter with Photocatalytic Deodorizing Function				
	Oval Scroll Compressor	-		Titanium Apatite Photocatalytic				
Compressor	Swing Compressor	-	Health & Clean	Air-Purifying Filter	_			
Compressor	Rotary Compressor	0		Longlife Filter	-			
	Reluctance DC Motor	-		Mold Proof Air Filter	0			
	Power-Airflow Flap	-		Wipe-clean Flat Panel	0			
	Power-Airflow Dual Flaps	0		Washable Grille	_			
	Power-Airflow Diffuser	-		Mold Proof Operation	_			
	Wide-Angle Louvers	0		Heating Dry Operation				
Comfortable	Vertical Auto-Swing (Up and Down)	0		Good-Sleep Cooling Operation				
Airflow	Horizontal Auto-Swing (Right and Left)	-	Timer	24-Hour ON/OFF Timer				
	3-D Airflow	-	Timer	Night Set Mode				
	Comfort Airflow Mode	-		Auto-Restart (after Power Failure)	0			
	3-Step Airflow (H/P Only)	-	Worry Free	Self-Diagnosis (Digital, LED) Display				
	Auto Fan Speed	0	"Reliability &	Wiring Error Check				
	Indoor Unit Silent Operation	-	Durability	Anticorrosion Treatment of Outdoor Heat				
	Night Quiet Mode (Automatic)	-		Exchanger				
Complaint Combined	Outdoor Unit Silent Operation (Manual)	-		Multi-Split / Split Type Compatible Indoor				
Comfort Control	Intelligent Eye	-		Unit				
	Quick Warming Function	-		Flexible Voltage Correspondence				
	Hot-Start Function	-	Flexibility	High Ceiling Application				
	Automatic Defrosting	-		Chargeless	10m			
	Automatic Operation	-		Either Side Drain (Right or Left)	0			
Operation	Programme Dry Function	0		Power Selection	_			
	Fan Only	0		5-Rooms Centralized Controller (Option)	0			
	New Powerful Operation (Non-Inverter)	0		Remote Control Adaptor				
	Inverter Powerful Operation	-	Demote Original	(Normal Open-Pulse Contact)(Option)	0			
	Priority-Room Setting	-	Remote Control	Remote Control Adaptor	0			
	Cooling / Heating Mode Lock	-		(Normal Open Contact)(Option)	0			
Lifestyle	Home Leave Operation	-		DIII-NET Compatible (Adaptor)(Option)	_			
Convenience	ECONO Mode	-	Remote	Wireless				
	Indoor Unit On/Off Switch	0	Controller	Wired				
	Signal Reception Indicator	0						
	Temperature Display	- 1						
	Another Room Operation	-						
Notes:	O: Holding Functions	-	*:	Digital Only				

— : No Functions

4. Specifications

220/240V, 50Hz

	Indoor Units		FT25DVM	FT35DVM			
Models	Outdeex Unite		R25DV1	R35DV1			
	Outdoor Units	Ī	Cooling	Cooling			
		kW	2.62 / 2.62	3.58 / 3.58			
Capacity		Btu/h	8,900 / 8,900	1,2200 / 1,2200			
		kcal/h	2,250 / 2,250	3,050 / 3,050			
Moisture Rem	oval	L/h	1.2	1.9			
Running Curre	ent	Α	3.94 / 4.25	5.25 / 5.45			
Power Consur	nption	W	815 / 880	1,120 / 1,190			
Power Factor		%	94.0 / 86.3	92.2 / 91.0			
COP		W/W	3.21 / 2.98	3.2 / 3.0			
	Liquid	mm	φ 6.4	φ 6.4			
Piping	Gas	mm	φ 9.5	φ 12.7			
CONTRECTIONS	Drain	mm	φ18.0	φ18.0			
Heat Insulation	1		Both Liquid and Gas Pipes	Both Liquid and Gas Pipes			
Indoor Units			FT25DVM	FT35DVM			
Front Panel Co	olor		White	White			
		Н	8.8 (311)	9.9 (350)			
Air Flow Rate	m ³ /min	М	7.4 (261)	8.3 (293)			
	(CIIII)	L	5.9 (208)	6.8 (240)			
	Туре		Cross Flow Fan	Cross Flow Fan			
Fan	Motor Output	W	18	18			
	Speed	Steps	5 Steps, Auto	5 Steps, Auto			
Air Direction C	ontrol		Right, Left, Horizontal, Downward	Right, Left, Horizontal, Downward			
Air Filter			Removable / Washable / Mildew Proof	Removable / Washable / Mildew Proof			
Running Curre	ent	Α	0.17/0.15	0.19/0.17			
Power Consur	nption	W	35 / 35	40 / 40			
Power Factor	•	%	93.6 / 97.2	95.7 / 98.0			
Temperature 0	ontrol		Microcomputer Control	Microcomputer Control			
Dimensions (H	HxWxD) m		283×800×195	283×800×195			
Packaged Dim	ensions (H×W×D)	mm	265×855×340	265×855×340			
Weight	. ,	kg	9	9			
Gross Weight		kg	12	12			
Operation Sound	H/L	dBA	36 / 28	39 / 31			
Outdoor Units	S	-	R25DV1	R35DV1			
Casing Color			Ivory White	Ivory White			
	Туре		Hermetically Sealed Rotary Type	Hermetically Sealed Rotary Type			
Compressor	Model		RC30BV1R2T	RC46AV1TRT			
	Motor Output	W	700	1,100			
Refrigerant	Туре		SUNISO 4GSD.I.	SUNISO 4GSD.I.			
Oil	Charge	L	0.4	0.5			
Defrigerent	Туре		R22	R22			
Reingerani	Charge	kg	0.76	0.95			
Air Flow Doto	m³/min		28 /30	26.5 / 28			
AIT FIOW Hate	cfm		988 /1,059	935 / 988			
Fan	Туре		Propeller	Propeller			
ran	Motor Output	W	25	25			
Running Curre	ent	Α	3.77 / 4.1	5.33 / 5.28			
Power Consur	nption	W	780 / 845	1,080 / 1,150			
Power Factor		%	94.0 / 85.9	92.1 / 90.8			
Starting Curren	nt	Α	19/21	26 / 28			
Dimensions (H	l×W×D)	mm	560×695×265	560×695×265			
Packaged Dim	ensions (H×W×D)	mm	599×797×310	599×797×310			
Weight	·	kg	27	33			
Gross Weight		kg	30	35			
Operation Sou	Ind	dBA	H : 46 / 48	H : 48 /49			
Drawing No.		·	3D049542	3D049543			

Notes:

MAX. interunit piping length: 25m
MAX. interunit height difference: 15m
Amount of additional charge of refrigerant 20g/m for piping length exceeding 10m
The data are based on the conditions shown in the table below.

Cooling	Piping Length
Indoor ; 27°CDB/19°CWB Outdoor ; 35°CDB/24°CWB	5m

Conversion Formulae	
kcal/h=kW×860 Btu/h=kW×3414	

5. Dimensions

5.1 Indoor Units

FT25DVM



3D048857

FT35DVM



3D047960B

5.2 Outdoor Units

R25DV1



3D028041B

R35DV1



3D049408

6. Wiring Diagrams

6.1 Indoor Units

FT25DVM / FT35DVM



3D048861

6.2 Outdoor Units

R25DV1



R35DV1



7. Piping Diagrams

7.1 Indoor Units

FT25DVM



C : 4D047912A

FT35DVM



C : 4D047913A

7.2 Outdoor Units

R25DV1



R35DV1



3D020877D

Capacity Tables 8.

Cooling Only 8.1

FT25DVM+R25DV1

Cooling (220V 50Hz)

AFR	8.8
BF	0.24

IND	OOR							0	UTDOO	R TEMP	ERATU	RE(°CD	B)						
TEMP		20			25		30			32			35			40			
EWB	EDB	тс	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	тс	SHC	PI
°C	°C	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW							
14.0	20	2.68	2.00	0.63	2.56	1.94	0.69	2.44	1.88	0.75	2.39	1.86	0.77	2.32	1.82	0.81	2.20	1.76	0.87
16.0	22	2.80	1.97	0.63	2.68	1.91	0.69	2.56	1.85	0.75	2.51	1.83	0.77	2.44	1.80	0.81	2.32	1.74	0.87
18.0	25	2.93	2.06	0.63	2.80	2.01	0.69	2.68	1.95	0.75	2.63	1.93	0.78	2.56	1.90	0.81	2.44	1.85	0.87
19.0	27	2.99	2.17	0.63	2.86	2.12	0.69	2.74	2.07	0.75	2.69	2.05	0.78	2.62	2.02	0.82	2.50	1.97	0.88
22.0	30	3.17	2.10	0.64	3.05	2.05	0.70	2.92	2.01	0.76	2.87	1.99	0.78	2.80	1.96	0.82	2.68	1.92	0.88
24.0	32	3.29	2.04	0.64	3.17	2.00	0.70	3.04	1.96	0.76	2.99	1.94	0.79	2.92	1.92	0.82	2.80	1.88	0.88

Cooling (240V 50Hz)

AFR	8.8
BF	0.24

IND	DOR							0	UTDOO	R TEMP	ERATU	RE(°CD	B)						
TEMP		20		25		30			32			35			40				
EWB	EDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
°C	°C	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW							
14.0	20	2.68	2.00	0.68	2.56	1.94	0.74	2.44	1.88	0.81	2.39	1.86	0.83	2.32	1.82	0.87	2.20	1.76	0.94
16.0	22	2.80	1.97	0.68	2.68	1.91	0.74	2.56	1.85	0.81	2.51	1.83	0.84	2.44	1.80	0.87	2.32	1.74	0.94
18.0	25	2.93	2.06	0.68	2.80	2.01	0.75	2.68	1.95	0.81	2.63	1.93	0.84	2.56	1.90	0.88	2.44	1.85	0.94
19.0	27	2.99	2.17	0.68	2.86	2.12	0.75	2.74	2.07	0.81	2.69	2.05	0.84	2.62	2.02	0.88	2.50	1.97	0.95
22.0	30	3.17	2.10	0.69	3.05	2.05	0.76	2.92	2.01	0.82	2.87	1.99	0.85	2.80	1.96	0.89	2.68	1.92	0.95
24.0	32	3.29	2.04	0.69	3.17	2.00	0.76	3.04	1.96	0.82	2.99	1.94	0.85	2.92	1.92	0.89	2.80	1.88	0.95

AFR	: Air flow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C)
EDB	: Entering dry bulb temp.	(°C)
тс	: Total capacity	(kW)
SHC	: Sensible heat capacity	(kW)
ΡI	: Power input	(kW)

NOTES:

- 1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- shows nominal(rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
- 4. SHC is based on each EWB and EDB.
- SHC is based on each EWB and EDB. SHC*=SHC correction for other dry bulb. =0.02×AFR(m³/min.)×(1-BF)×(DB*-EDB) Add SHC*to SHC.
 Capacities are based on the following conditions. Corresponding refrigerant piping length : 5m Level difference : 0m
 Air difference : 0m
- 6. Air flow rate (AFR) and bypass factor (BF) are tabulated above.

3D049930

FT35DVM+R35DV1

Cooling (220V 50Hz)

AFR	9.9
BF	0.24

IND	OOR	R OUTDOOR TEMPERATURE(°CDB)																	
TE	MP		20			25			30			32			35			40	
EWB	EDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
°C	°C	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
14.0	20	3.67	2.58	0.86	3.50	2.50	0.94	3.33	2.41	1.02	3.27	2.37	1.06	3.17	2.32	1.11	3.00	2.24	1.19
16.0	22	3.83	2.54	0.86	3.67	2.46	0.95	3.50	2.37	1.03	3.43	2.34	1.06	3.33	2.29	1.11	3.17	2.21	1.20
18.0	25	4.00	2.64	0.87	3.83	2.56	0.95	3.66	2.48	1.03	3.60	2.45	1.07	3.50	2.41	1.12	3.33	2.33	1.20
19.0	27	4.08	2.76	0.87	3.91	2.68	0.95	3.75	2.61	1.04	3.68	2.58	1.07	3.58	2.54	1.12	3.41	2.47	1.20
22.0	30	4.33	2.65	0.88	4.16	2.59	0.96	3.99	2.52	1.04	3.93	2.49	1.08	3.83	2.46	1.13	3.66	2.39	1.21
24.0	32	4.49	2.58	0.88	4.33	2.51	0.97	4.16	2.45	1.05	4.09	2.43	1.08	3.99	2.40	1.13	3.83	2.34	1.22

Cooling (240V 50Hz)

AFR	9.9
BF	0.24

IND	OOR		OUTDOOR TEMPERATURE(°CDB)																
TE	TEMP 20				25			30		32		35			40				
EWB	EDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
°C	°C	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
14.0	20	3.67	2.58	0.91	3.50	2.50	1.00	3.33	2.41	1.09	3.27	2.37	1.12	3.17	2.32	1.18	3.00	2.24	1.26
16.0	22	3.83	2.54	0.92	3.67	2.46	1.01	3.50	2.37	1.09	3.43	2.34	1.13	3.33	2.29	1.18	3.17	2.21	1.27
18.0	25	4.00	2.64	0.92	3.83	2.56	1.01	3.66	2.48	1.10	3.60	2.45	1.13	3.50	2.41	1.19	3.33	2.33	1.28
19.0	27	4.08	2.76	0.93	3.91	2.68	1.01	3.75	2.61	1.10	3.68	2.58	1.14	3.58	2.54	1.19	3.41	2.47	1.28
22.0	30	4.33	2.65	0.93	4.16	2.59	1.02	3.99	2.52	1.11	3.93	2.49	1.15	3.83	2.46	1.20	3.66	2.39	1.29
24.0	32	4.49	2.58	0.94	4.33	2.51	1.03	4.16	2.45	1.12	4.09	2.43	1.15	3.99	2.40	1.20	3.83	2.34	1.29

Symbols

AFR	: Air flow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C)
EDB	: Entering dry bulb temp.	(°C)
тс	: Total capacity	(kW)
SHC	: Sensible heat capacity	(kW)
ΡI	: Power input	(kW)

NOTES:

- 1. Ratings shown are net capacities which include a deduction for indoor fan
- notify beat.
 shows nominal(rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for a structure by the should be used for structure by the should be used
- calculation.)
 4. SHC is based on each EWB and EDB. SHC*=SHC correction for other dry bulb. =0.02×AFR(m³/min.)×(1–BF)×(DB*–EDB) Add SHC*to SHC.
 5. Capacities are based on the following conditions. Corresponding refrigerant piping length : 5m Level difference : 0m
 6. Air flow rate (AFR) and bypass factor (BF) are tabulated above.

3D049931

8.2 Capacity correction factor by the length of refrigerant piping (Reference)

The cooling and the heating capacity of the unit has to be corrected in accordance with the length of refrigerant piping. (The distance between the indoor unit and the outdoor unit)

■ Split System <--- line : For the indoor unit with capacity of 2.5 kW. > <--- line : For the indoor unit with capacity of 3.5 kW. >



Notes: The graph shows the factor when additional refrigerant of the proper quantity is charged.

9. Operation Limit

R25DV1 / R35DV1



4D000888P

10. Sound Level

10.1 Measuring Location



Notes:

1. Operation sound is measured in an anechoic chamber.

2. The data are based on the conditions shown in the table below.

Cooling	Piping Length
Indoor ; 27°CDB/19°CWB Outdoor ; 35°CDB/24°CWB	5m

10.2 Octave Band Level

10.2.1 Indoor Units

FT25DVM



FT35DVM

10.2.2 Outdoor Units

R25DV1



R35DV1

Room Air Conditioners D-Series

3D049939 3D049940

11. Electric Characteristics

		Power Supply			CO	MP	OFM		IFM		
Indoor Unit	Outdoor Unit	Hz-Volts	Voltage Range	MCA	MFA	LRA	RLA	W	FLA	W	FLA
	R25DV1	50-220	MAX. 50Hz 264V	4.7	15	19	3.4	25	0.27	18	0.16
FIZODVIVI		50-240	MIN. 50Hz 198V	5.2	15	21	3.8	20			
		50-220	MAX. 50Hz 264V	6.7	15 -	26	5.0	25	0.27	18	0.16
F135DVIM	R35DVI	50-240	MIN. 50Hz 198V	6.7		28	5.0	25	0.27		

SYMBOLS:

MCA : MIN. CIRCUIT AMPS (A)

MFA : MAX. FUSE AMPS (A)

: LOCKED ROTOR AMPS (A) LRA

RLA : RATED LOAD AMPS (A)

OFM : OUTDOOR FAN MOTOR

IFM : INDOOR FAN MOTOR

FLA : FULL LOAD AMPS (A)

W : FAN MOTOR RATED OUTPUT (W)

NOTES:

RLA is based on the following conditions. Indoor temp. 27°CDB/19°CWB Outdoor temp. 35°CDB.
 Maximum allowable voltage variation between phases is 2%.
 Select wire size based on the larger value of MCA.
 Instead of fuse, use circuit breaker.

12.Installation Manual

SAFETY PRECAUTIONS
 Read these Safety Precautions carefully to ensure correct installation. This manual classifies the precautions into WARNING and CAUTION. Be sure to follow all the precautions below: they are all important for ensuring safety.
WARNING Failure to follow any of WARNING is likely to result in such grave consequences as death or serious injury.
CAUTION Failure to follow any of CAUTION may result in grave consequences in some cases.
The following safety symbols are used throughout this manual:
Be sure to observe this instruction. Be sure to establish an earth connection. Never attempt.
• After completing installation, test the unit to check for installation errors. Give the user adequate instructions concerning the use and cleaning of the unit according to the Operation Manual.
• Installation should be left to the dealer or another professional. Improper installation may cause water leakage, electrical shock, or fire.
• Install the air conditioner according to the instructions given in this manual. Incomplete installation may cause water leakage, electrical shock, or fire.
• Be sure to use the supplied or specified installation parts. Use of other parts may cause the unit to come to lose, water leakage, electrical shock, or fire.
Install the air conditioner on a solid base that can support the weight of the unit. An inadequate base or incomplete installation may cause injury in the event the unit falls off the base.
• Electrical work should be carried out in accordance with the installation manual and the national electrical wiring rules or code of practice. Insufficient capacity or incomplete electrical work may cause electrical shock or fire.
• Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.
For wiring, use a cable length enough to cover the entire distance with no connection. Do not use an extension cord. Do not put other loads on the power supply, use a dedicated power circuit. (Failure to do so may cause abnormal heat, electrical shock or fire.)
• Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the interconnecting wires so their terminals receive no external stresses. Incomplete connections or clamping may cause terminal overheating or fire.
After connecting interconnecting and supply wiring be sure to shape the cables so that they do not put undue force on the electrical covers or panels. Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, or fire.
• When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R22), such as air. (Any presence of air or other foreign substance in the refrigerant circuit causes an abnormal pressure rise or rupture, resulting in injury.)
The installation height from the floor must be over 1.8m.
If any refrigerant has leaked out during the installation work, ventilate the room. (The refrigerant produces a toxic gas if exposed to flames.)
After all installation is complete, check to make sure that no refrigerant is leaking out. (The refrigerant produces a toxic gas if exposed to flames.)
• During pump-down, stop the compressor before removing the refrigerant piping. If the compressor is still running and the shut-off valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.
• During installation, attach the refrigerant piping securely before running the compressor. If the compressor is not attached and the shut-off valve is open during pump-down, air will be sucked in when the compressor is run, causing abnormal pressure in the freezer cycle which will lead to breakage and even injury.
• Be sure to establish an earth. Do not earth the unit to a utility pipe, arrester, or telephone earth. Incomplete earth may cause electrical shock. A high surge current from lightning or other sources may cause damage to the air conditioner.
• Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electrical shocks.
• Do not install the air conditioner in a place where there is danger of exposure to inflammable gas leakage.
Establish drain piping according to the instructions of this manual. Inadequate piping may cause flooding.
• Tighten the flare nut according to the specified method such as with a torque wrench. If the flare nut is tightened too hard, the flare nut may crack after a long time and cause refrigerant leakage.

		ACCESSORIES	5	Indoor unit $(A) \sim (L)$	
A Mounting plate	1	E Remote controller holder	1	(J) Insulation tape	1
B Mounting plate fixing screw M4 × 25L	6	F Fixing screw for remote controller holder M3 × 20L	2	(K) Operation manual	1
© Air purifying filter with photocatalytic deodorizing function	2	G AAA dry-cell batteries	2	() Installation manual	1
D Wireless remote controller	1	(\widehat{H}) Indoor unit fixing screw M4 × 12L	2		

CHOOSING A SITE

Before choosing the installation site, obtain user approval.

Indoor unit

- The indoor unit should be sited in a place where: the restrictions on installation specified in the indoor unit installation drawings are met,
 - both air intake and exhaust have clear paths of air,
 - the unit is not in the path of direct sunlight,
 - the unit is away from the source of heat or steam,
 - there is no source of machine oil vapour (this may shorten indoor unit life),
 - · cool air is circulated throughout the room,
 - the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may shorten the remote controller range,
 - the unit is at least 1 metre away from any television or radio set (unit may cause interference with the picture or sound)
 - install at the recommended height (1.8m).

Outdoor unit

- The outdoor unit should be sited in a place where:
 - the restrictions on installation specified in the outdoor unit installation diagram are met, · drain water causes no trouble or problem in particular,
 - both air intake and exhaust have clear paths of air (they should be free of snow in snowy districts),
 - the unit is in a clear path of air but not directly exposed to rain, strong winds, or direct sunlight.
 - . there is no fear of inflammable gas leakage,
 - the unit is no directly exposed to salt, sulfidized gases, or machine oil vapour (they may shorten outdoor unit life).
 - operation noise or hot air flow does not cause trouble to neighbours,
 - . the unit is at least 3 metres away from any television or radio antenna.

Wireless Remote Controller

• Turn on all the fluorescent lamps in the room, if any, and find the site where remote control signals are properly received by the indoor unit (within 7 metres).



<When there is no work space because the unit is close to ceiling>

Room Air Conditioners D-Series

PCB

J4 ADDRESS EXIST 1

ng bo





Indoor Unit









Outdoor Unit







DRAIN WORK

 If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 30mm in height under the outdoor unit's feet.

• In cold areas, do not use a drain hose with the outdoor unit. (Otherwise, drain water may freeze.)

TRIAL OPERATION AND TESTING

Trial Operation and Testing

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Measure the supply voltage and make sure that it falls in the specified range.
 Trial operation should be carried out in cooling mode.

Trial operation from Remote Controller

- (1) Press ON/OFF button to turn on the system.
- (2) Simultaneously press center of TEMP button and MODE button.
- (3) Press MODE button twice. (" 7" " will appear on the display to indicate that Trial Operation mode is selected.)
- (4) Trial run mode terminates in approx. 30 minutes and switches into normal mode. To quit a trial operation, press ON/OFF button.

Select the lowest programmable temperature.

- Trial operation in cooling mode may be disabled depending on the room temperature. Use the remote controller for trial operation as described below.
- After trial operation is complete, set the temperature to a normal level (26° to 28°C).
- For protection, the unit disables restart operation for 3 minutes after it is turned off.
- (3) Carry out the test operation in accordance with the Operation Manual to ensure that all functions and parts, such as louver movement, are working properly.
- * The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- * If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

Test Items

Test Items	Symptom (diagnostic display on RC)	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly earthed.	Electrical leakage	
The specified wires are used for interconnecting wire connections.	Inoperative or burn damage	
Indoor or outdoor unit's air intake or exhaust has clear path of air. Shut-off valves are opened.	Incomplete cooling function	
Indoor unit properly receives remote controller commands.	Inoperative	
	·	

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13. Operation Manual

Safety precaution

- Keep this manual where the operator can easily find them.
- · Read this manual attentively before starting up the unit.
- For safety reason the operator must read the following cautions carefully.
- This manual classifies precautions into WARNING and CAUTION. Be sure to follow all precautions below: they are all important for ensuring safety.



- · Never expose little children, plants or animals directly to the air flow.
- Do not place appliances which produce open fire in places exposed to the air flow from the unit or under the indoor unit. It may cause incomplete combustion or deformation of the unit due to the heat.
- Do not block air inlets nor outlets. Impaired air flow may result in insufficient performance or trouble.

- Do not stand or sit on the outdoor unit. Do not place any object on the unit to avoid injury, do not remove the fan guard.
- Do not place anything under the indoor or outdoor unit that must be kept away from moisture. In certain conditions, moisture in the air may condense and drip.
- After a long use, check the unit stand and fittings for damage.
- Do not touch the air inlet and aluminum fins of outdoor unit. It may cause injury.
- The appliance is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the appliance.
- To avoid oxygen deficiency, ventilate the room sufficiently if equipment with burner is used together with the air conditioner.
- Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord.
- Do not connect the air conditioner to a power supply different from the one as specified. It may cause trouble or fire.
- Depending on the environment, an earth leakage breaker must be installed. Lack of an earth leakage breaker may result in electric shocks.
- Arrange the drain hose to ensure smooth drainage. Incomplete draining may cause wetting of the building, furniture etc.
- Do not operate the air conditioner with wet hands.

- Do not wash the indoor unit with excessive water, only use a slightly wet cloth.
- Do not place things such as vessels containing water or anything else on top of the unit. Water may penetrate into the unit and degrade electrical insulations, resulting in an electric shock.

Installation site.

- To install the air conditioner in the following types of environments, consult the dealer.
 - Places with an oily ambient or where steam or soot occurs.
 - Salty environment such as coastal areas.
 - Places where sulfide gas occurs such as hot springs.
 - Places where snow may block the outdoor unit.

The drain from the outdoor unit must be discharged to a place of good drainage.

Consider nuisance to your neighbours from noises.

For installation, choose a place as described below.

- A place solid enough to bear the weight of the unit which does not amplify the operation noise or vibration.
- A place from where the air discharged from the outdoor unit or the operation noise will not annoy your neighbours.

Electrical work.

• For power supply, be sure to use a separate power circuit dedicated to the air conditioner.

System relocation.

• Relocating the air conditioner requires specialized knowledge and skills. Please consult the dealer if relocation is necessary for moving or remodeling.



Names of parts

Indoor Unit



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Outdoor Unit



Indoor Unit -

- 1. Air filter
- 2. Air purifying filter with
 - photocatalytic deodorizing function:
 - These filters are attached to the inside of the air filters.
- 3. Air inlet
- 4. Front panel
- 5. Panel tab
- 6. Room temperature sensor:
 - · It senses the air temperature around the unit.
- 7. Display
- 8. Air outlet
- 9. Flaps (horizontal blades): (page 12.)
- 10. Louvers (vertical blades):
 - The louvers are inside of the air outlet. (page 13.)

11. Indoor Unit ON/OFF switch: (page 10.)

- Push this switch once to start operation. Push once again to stop it.
- The operation mode refers to the following table.

Mode	Temperature	Air flow
	setting	rate
COOL	22°C	AUTO

• This switch is useful when the remote controller is missing.

12. Operation lamp (green)

13. TIMER lamp (yellow): (page 15.)

14. Signal receiver:

- It receives signals from the remote controller.
- When the unit receives a signal, you will hear a short beep.
 - Operation startbeep-beep
 - Settings changed.....beep
 - Operation stopbeeeeep

■ Outdoor Unit –

- 15. Air inlet: (Back and side)
- 16. Air outlet
- 17. Refrigerant piping and inter-unit cable
- 18. Drain hose

19. Earth terminal:

- It is inside of this cover.
- 20. Outside air temperature sensor:
 - It senses the ambient temperature around the unit.

Appearance of the outdoor unit may differ from some models.

Remote Controller



- 1. Signal transmitter:
 - It sends signals to the indoor unit.
- 2. Display:
 - It displays the current settings. (In this illustration, each section is shown with all its displays ON for the purpose of explanation.)
- 3. POWERFUL button: POWERFUL operation (page 14.)
- 4. TEMPERATURE adjustment buttons:
- It changes the temperature setting.
- 5. ON/OFF button:
 - Press this button once to start operation. Press once again to stop it.
- 6. MODE selector button:
 - · It selects the operation mode. (DRY/COOL/FAN) (page 10.)

- 7. FAN setting button:
- It selects the air flow rate setting.
- 8. SWING button:Adjusting the Air Flow Direction. (page 12.)
- 9. ON TIMER button: (page 16.)
- 10. OFF TIMER button: (page 15.)
- **11. TIMER Setting button:** It changes the time setting.
- 12. TIMER CANCEL button: • It cancels the timer setting.
- 13. CLOCK button: (page 9.)
- 14. RESET button:
 - Restart the unit if it freezes. • Use a thin object to push.

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Preparation Before Operation

To set the batteries

- 1. Press with a finger and slide the front cover to take it off.
- 2. Set two dry batteries (AAA).
- 3. Set the front cover as before.



ATTENTION

About batteries

- When replacing the batteries, use batteries of the same type, and replace the two old batteries together.
- When the system is not used for a long time, take the batteries out.
- We recommend replacing once a year, although if the remote controller display begins to fade or if reception deteriorates, please replace with new alkali batteries. Do not use manganese batteries.
- The attached batteries are provided for the initial use of the system. The usable period of the batteries may be short depending on the manufactured date of the air conditioner.

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Preparation Before Operation

To operate the remote controller

- To use the remote controller, aim the transmitter at the indoor unit. If there is anything to block signals between the unit and the remote controller, such as a curtain, the unit will not operate.
- Do not drop the remote controller. Do not get it wet.
- The maximum distance for communication is about 7m.



To fix the remote controller holder on the wall

- 1. Choose a place from where the signals reach the unit.
- 2. Fix the holder to a wall, a pillar, etc. with the screws supplied with the holder.
- 3. Place the remote controller in the remote controller holder.



• To remove, pull it upwards.

ATTENTION

About remote controller

- Never expose the remote controller to direct sunlight.
- Dust on the signal transmitter or receiver will reduce the sensitivity. Wipe off dust with soft cloth.
- Signal communication may be disabled if an electronic-starter-type fluorescent lamp (such as inverter-type lamps) is in the room. Consult the shop if that is the case.
- If the remote control signals happen to operate another appliance, move that appliance to somewhere else, or consult the shop.

To set the clock

1. Press "CLOCK button".

0:00 is displayed.

blinks.

2. Press "TIMER setting button" to set the clock to the present time.

Holding down "▲" or "▼" button rapidly increases or decreases the time display.

- 3. Press "CLOCK button".
 - blinks.

Turn the breaker ON

• Turning ON the breaker opens the flap, then closes it again. (This is a normal procedure.)



Recommended temperature setting

For cooling:26°C – 28°C

NOTE

- Tips for saving energy
 - Be careful not to cool the room too much.
 - Keeping the temperature setting at a moderate level helps save energy. · Cover windows with a blind or a curtain.
 - Blocking sunlight and air from outdoors increases the cooling effect.

 Clogged air filters cause inefficient operation and waste energy. Clean them once in about every two weeks.

Please note

- The air conditioner always consumes 15-35 watts of electricity even while it is not operating.
- If you are not going to use the air conditioner for a long period, for example in spring or autumn, turn the breaker OFF
- · Use the air conditioner in the following conditions.

Mode	Operating conditions	If operation is continued out of this range
COOL	Outdoor temperature: 20 to 46°C Indoor temperature: 18 to 32°C Indoor humidity: 80% max.	 A safety device may work to stop the operation. Condensation may occur on the indoor unit and drip.
DRY	Outdoor temperature: 20 to 46°C Indoor temperature: 18 to 32°C Indoor humidity: 80% max.	 A safety device may work to stop the operation. Condensation may occur on the indoor unit and drip.

• Operation outside this humidity or temperature range may cause a safety device to disable the system.

DRY · COOL · FAN Operation

The air conditioner operates with the operation mode of your choice.

From the next time on, the air conditioner will operate with the same operation mode.

To start operation

- 1. Press "MODE selector button" and select a operation mode.
 - Each pressing of the button advances the mode setting in sequence.

C: DRY

₩: COOL

🔁 : FAN

• ₽ → ₩ → ₽

- 2. Press "ON/OFF button" .
 - The OPERATION lamp lights up.





To stop operation

- 3. Press "ON/OFF button" again.
 - Then OPERATION lamp goes off.

To change the temperature setting

4. Press "TEMPERATURE adjustment button".

DRY or FAN mode	COOL mode
	Press " \blacktriangle " to raise the temperature and press
	" ▼ " to lower the temperature.
The temperature setting is not variable.	Set to the temperature you like.

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To change the air flow rate setting

5. Press "FAN setting button".

DRY mode	COOL or FAN mode	
	Five levels of air flow rate setting from " 🗟 " to " 💂 "	
The air flow rate setting is not variable	plus " 🖾 " are available.	
The air now rate setting is not variable.	? ≥ · ? · ?	

NOTE

- Note on DRY operation
 - The computer chip works to rid the room of humidity while maintaining the temperature as much as possible. It automatically controls temperature and fan strength, so manual adjustment of these functions is unavailable.
- Note on air flow rate setting
 - At smaller air flow rates, the cooling effect is also smaller.

Adjusting the Air Flow Direction

You can adjust the air flow direction to increase your comfort.

To adjust the horizontal blades (flaps)

1. Press "SWING button".

 $\zeta_{\rm I}$ is displayed on the LCD and the flaps will begin to swing.

2. When the flaps have reached the desired position, press "SWING button" once more.

The display will go blank. The flaps will stop moving.



To adjust the vertical blades (louvers)

Hold the knob and move the louvers. (You will find a knob on the left-side and the right-side blades.)

• When the unit is installed in the corner of a room, the direction of the louvers should be facing away from the wall.

If they face the wall, the wall will block off the wind, causing the cooling efficiency to drop.



Notes on flaps and louvers angles

- When "SWING button" is selected, the flaps swinging range depends on the operation mode. (See the figure.)
- ATTENTION
 - Always use a remote controller to adjust the flaps angle. If you attempt to move it forcibly with hand when it is swinging, the mechanism may be broken.
 - Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at a high speed.



POWERFUL Operation

POWERFUL operation quickly maximizes the cooling effect in any operation mode. You can get the maximum capacity .

To start POWERFUL operation

- 1. Press "POWERFUL button".
 - POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the settings which were used before POWERFUL operation.
 - When using POWERFUL operation, there are some functions which are not available.
 - "+ " is displayed on the LCD.

To cancel POWERFUL operation

- 2. Press "POWERFUL button" again.
 - "+ " disappears from the LCD.



NOTE

Notes on POWERFUL operation

• POWERFUL Operation can only be set when the unit is running. Pressing the operation stop button causes the settings to be canceled, and the "+ " disappears from the LCD.

• In COOL mode

The air flow rate is fixed to the maximum setting.

The temperature and air flow settings are not variable.

• In DRY mode

The temperature setting is lowered by 2.5°C and the air flow rate is slightly increased.

• In FAN mode

The air flow rate is fixed to the maximum setting.



TIMER Operation

Timer functions are useful for automatically switching the air conditioner on or off at night or in the morning. You can also use OFF TIMER and ON TIMER in combination.

To use OFF TIMER operation

- Check that the clock is correct. If not, set the clock to the present time. (page 9.)
- 1. Press "OFF TIMER button".

C:CC is displayed.

⊕•⊖ blinks.

- 2. Press "TIMER Setting button" until the time setting reaches the point you like.
 - Every pressing of either button increases or decreases the time setting by 10 minutes. Holding down either button changes the setting rapidly.
- 3. Press "OFF TIMER button" again.
 - The TIMER lamp lights up.



To cancel the OFF TIMER operation

4. Press "CANCEL button".

• The TIMER lamp goes off.

NOTE

- When TIMER is set, the present time is not displayed.
- Once you set ON, OFF TIMER, the time setting is kept in the memory. (The memory is canceled when remote controller batteries are replaced.)
- When operating the unit via the ON/OFF Timer, the actual length of operation may vary from the time entered by the user. (Maximum approx. 10 minutes)

NIGHT SET MODE

When the OFF TIMER is set, the air conditioner automatically adjusts the temperature setting (0.5°C up in COOL) to prevent excessive cooling for your pleasant sleep.

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TIMER Operation

To use ON TIMER operation

- Check that the clock is correct. If not, set the clock to the present time (page 9.).
- 1. Press "ON TIMER button".

5:00 is displayed.

⊕. I blinks.

- 2. Press "TIMER Setting button" until the time setting reaches the point you like.
 - Every pressing of either button increases or decreases the time setting by 10 minutes. Holding down either button changes the setting rapidly.
- 3. Press "ON TIMER button" again.
 - The TIMER lamp lights up.



- To cancel ON TIMER operation
 - 4. Press "CANCEL button".
 - The TIMER lamp goes off.

To combine ON TIMER and OFF TIMER

• A sample setting for combining the two timers is shown below.

(Example) Present time: 11:00 p.m. (The unit operating) OFF TIMER at 0:00 a.m. ON TIMER at 7:00 a.m.) Combined

ATTENTION

- In the following cases, set the timer again.
 - After a breaker has turned OFF.
 - After a power failure.
 - After replacing batteries in the remote controller.





Care and Cleaning

CAUTION Before cleaning, be sure to stop the operation and turn the breaker OFF.

Units

- Indoor unit, Outdoor unit and Remote controller
 - 1. Wipe them with dry soft cloth.

Front panel

1. Open the front panel.

• Hold the panel by the tabs on the two sides and lift it unit! it stops with a click.

2. Remove the front panel.

• Lift the front panel up, slide it slightly to the right, and remove it from the horizontal axle.

3. Clean the front panel.

- Wipe it with a soft cloth soaked in water.
- Only neutral detergent may be used.
- In case of washing the panel with water, dry it with cloth, dry it up in the shade after washing.

4. Attach the front panel.

- Set the 2 keys of the front panel into the slots and push them in all the way.
- Close the front panel slowly and push the panel at the 3 points.
 - (1 on each sides and 1 in the middle.)







- Don't touch the metal parts of the indoor unit. If you touch those parts, this may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent it from falling.
- For cleaning, do not use hot water above 40°C, benzine, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

Filters

- 1. Open the front panel. (page 17.)
- 2. Pull out the air filters.
 - Push a little upwards the tab at the center of each air filter, then pull it down.
- 3. Take off the air purifying filter with photocatalytic deodorizing function.
 - Hold the recessed parts of the frame and unhook the four claws.
- 4. Clean or replace each filter. See figure.





- 5. Set the air filter and the air purifying filter with photocatalytic deodorizing function as they were and close the front panel.
 - Insert claws of the filters into slots of the front panel. Close the front panel slowly and push the panel at the 3 points. (1 on each sides and 1 in the middle.)

Air Filter

1. Wash the air filters with water or clean them with vacuum cleaner.

- If the dust does not come off easily, wash them with neutral detergent thinned with lukewarm water, then dry them up in the shade.
- It is recommended to clean the air filters every two weeks.

Air purifying filter with photocatalytic deodorizing function (gray)

The Air purifying filter with photocatalytic deodorizing function can be renewed by washing it with water once every 6 months. We recommend replacing it once every 3 years.

[Maintenance]

- 1. Remove dust with a vacuum cleaner and wash lightly with water.
- 2. If it is very dirty, soak it for 10 to 15 minutes in water mixed with a neutral cleaning detergent.
- 3. Do not remove filter from frame when washing with water.
- 4. After washing, shake off remaining water and dry in the shade.
- 5. Since the material is made out of paper, do not wring out the filter when removing water from it.

[Replacement]

1. Remove the tabs on the filter frame and replace with a new filter. • Dispose of the old filter as flammable waste.



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NOTE

- Operation with dirty filters:
- (1) cannot deodorize the air.(2) cannot clean the air.(3) results in poor cooling.(4) may cause odour.
- To order air purifying filter with photocatalytic deodorizing function contact to the service shop there you bought the air conditioner.
- Dispose of old filters as flammable waste.

Item	Part No.
Air purifying filter with photocatalytic deodorizing function. (without frame) 1 set	KAF970A44

Check

Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.

Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.

Check that the drain comes smoothly out of the drain hose during COOL or DRY operation.

If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.

Before a long idle period

- 1. Operate the "Fan only" for several hours on a fine day to dry out the inside.
 - Press"MODE selector button" and select "Fan" operation.
 - Press"ON/OFF button" and start operation.
- 2. Clean the air filters and set them again.
- 3. Take out batteries from the remote controller.
- 4. Turn OFF the breaker for the room air conditioner.

Trouble Shooting

These cases are not troubles.

The following cases are not air conditioner troubles but have some reasons. You may just continue using it.

Case	Explanation
 Operation does not start soon. When ON/OFF button was pressed soon after operation was stopped. When the mode was reselected. 	 This is to protect the air conditioner. You should wait for about 3 minutes.
The outdoor unit emits water or steam.	 In COOL or DRY mode Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.
Mists come out of the indoor unit.	This happens when the air in the room is cooled into mist by the cold air flow during cooling operation.
The indoor unit gives out odour.	 This happens when smells of the room, furniture, or cigarettes are absorbed into the unit and discharged with the air flow. (If this happens, we recommend you to have the indoor unit washed by a technician. Consult the service shop where you bought the air conditioner.)
The outdoor fan rotates while the air conditioner is not in operation.	 After operation is stopped: The outdoor fan continues rotating for another 60 seconds for system protection. While the air conditioner is not in operation: When the outdoor temperature is very high, the outdoor fan starts rotating for system protection.
The operation stopped suddenly. (OPERATION lamp is on.)	For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes.

Check again.

Please check again before calling a repair person.

Case	Check
The air conditioner does not	Hasn't a breaker turned OFF or a fuse blown?
operate.	 Isn't it a power failure?
(OPERATION lamp is on.)	 Are batteries set in the remote controller?
	 Is the timer setting correct?
Cooling effect is poor.	Are the air filters clean?
	 Is there anything to block the air inlet or the outlet of the indoor and the outdoor units?
	 Is the temperature setting appropriate?
	 Are the windows and doors closed?
	Are the air flow rate and the air direction set appropriately?
Operation stops suddenly.	Are the air filters clean?
(OPERATION lamp flashes.)	 Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? Clean the air filters or take all obstacles away and turn the breaker OFF. Then turn it ON again and try operating the air
	conditioner with the remote controller. If the lamp still flashes, call the service shop where you bought the air conditioner.
An abnormal functioning happens during operation.	 The air conditioner may malfunction with lightning or radio waves. Turn the breaker OFF, turn it ON again and try operating the air conditioner with the remote controller.

Call the service shop immediately.



- When an abnormality (such as a burning smell) occurs, stop operation and turn the breaker OFF. Continued operation in an abnormal condition may result in troubles, electric shocks or fire. Consult the service shop where you bought the air conditioner.
- Do not attempt to repair or modify the air conditioner by yourself. Incorrect work may result in electric shocks or fire. Consult the service shop where you bought the air conditioner.

If one of the following symptoms takes place, call the service shop immediately.

- The power cord is abnormally hot or damaged.
- An abnormal sound is heard during operation.
- The safety breaker, a fuse, or the earth leakage breaker cuts off the operation frequently.
- A switch or a button often fails to work properly.
- There is a burning smell.
- Water leaks from the indoor unit.



Turn the breaker OFF and call the service shop.

 After a power failure
 The air conditioner automatically resumes operation in about 3 minutes. You should just wait for a while.
 Lightning
 If lightning may strike the neighbouring area, stop operation and turn the breaker OFF for system protection.

We recommend periodical maintenance.

In certain operating conditions, the inside of the air conditioner may get foul after several seasons of use, resulting in poor performance. It is recommended to have periodical maintenance by a specialist aside from regular cleaning by the user. For specialist maintenance, contact the service shop where you bought the air conditioner.

The maintenance cost must be born by the user.

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14. Optional Accessories

14.1 Option List

	Option Name	Kit Name	Applicable Model
1	Centralized control board-up to 5 rooms $\star 1$	KRC72	Indoor Unit
2	Wiring adaptor for time clock/remote control ★2 (Normal open pulse contact / Normal open contact)	KRP413A1S	Indoor Unit
3	Air Purifying Filter with Photocatalytic Deodorizing Function	KAF970A44	Indoor Unit
4	Remote controller loss prevention with the chain	KKF917A4	Indoor Unit
5	Drain Plug	KKP937A4	Outdoor Unit
6	Air Direction Adjustment Grille	KPW937A4	Outdoor Unit

Notes:

 $\star 1$ Wiring adaptor is also required for each indoor unit.

★2 Wiring adaptor ; supplied by DAIKIN. Time clock and other devices ; obtained locally.

14.2 Installation Manual

14.2.1 KRP413A1S

Safety Precautions

- Read these safety precautions carefully before installing the unit, and be sure to install the unit properly.
- This manual classifies precautions to the user into the following two categories. These warnings and cautions are for your safety. Follow them.

Faulty installation can result in death or serious injury.
Faulty installation can result in serious injury, damage to property, or other serious consequences.

 Below is a key to symbols used in this manual. 			
()	Be sure to follow instructions.		
Ð	Be sure to perform grounding work.		
\circ	Never attempt.		

 After installation is complete, test the unit to confirm that it is working properly, and instruct the owner its proper use.

/ WARNING

- Installation should be left to the dealer from whom you purchased the unit, or another qualified professionals.
- Install the unit securely according to the installation manual. Faulty installation may lead to electric shock or fire.
- Be sure to use the supplied or specified parts. Using other parts may lead to electric shock or fire.
- Install the unit securely in a location that will support its weight. If installed in a
 poor location or improperly installed, the unit may not work as intended.
- For electrical work, follow local electric standards and the installation manual. Faulty installation may lead to fire or electric shock.
- Do not bundle the power cord, or attempt to extend it by splicing it with another cord or by using an extension cord. Do not place any other load on the power circuit used for the unit. Improper wiring may lead to electric shock, heat generation or fire.
- Use dedicated wiring for all electrical connections, and be sure to arrange the wiring so that force applied to the wiring will not damage the terminals. Poor wiring or installation may cause electric shock, heat generation or fire.

- Before installation, unplug the air conditioner to ensure safety. Failure to do so may cause electric shock.
- Static electricity may damage electric components. Before connecting cables and communication lines, and operating the switches, be sure to discharge any electrical charge from your body (by, for example, touching the earth line)
- Do not install the unit in a location where it may be exposed to flammable gases. If gas leaks and build up around the unit, it may catch fire.
- Do not place the relay harness close to the power cord, inter-unit cable, or pipes which generate noise. Treat the harness with care.

1. Functions and Features

- On/Off setting
- Switching between Instantaneous Contact/Normal Contact
- Connection with five-room central controller (KRC72 for oversea model)
- Connection with fan coil remote controller
- Automatic reset after power failure
- Output of normal operation signals/alert signals

2. Field Wiring

For interconnecting wiring, use Daikin KDC100A12 cable (not supplied) or other similar cable. The cable should have the specifications shown below.

Optional cable KDC100A12 (without connectors) Specifications: 0.2 mm² × 4 core (sheathed)

Specifications:	0.2 mm
Outer diameter:	φ 5 .3
Length:	100 m
Colour:	Grey

Other cable (commercially available)

Item	· Outer dia.	Remarks
Cable for instrumentation (IPVV) 0.3 mm ² × 4-core	7.2 mm	Hard sheath
Microphone cord (MVVS) 0.3 mm ² × 4-core	8.0 mm	
Microphone cord (MVVS) 0.2 mm ² × 4-core	6.5 mm	Shielded
Microphone cord (MVVS) 0.15 mm ² × 4-core	4.8 mm	
Intercom cable 0.65 mm ² dia. × 4-core		
PVC jumper wire (TJVC) (from 0.5 mm dia. × 4 pcs.)	_	Not sheathed

Note 1: Keep any wiring for the control unit away from the power cord to prevent electrical noise.

Note 2: Do not use cables shown above for power cord, inter-unit cord/cable or power cord for lamps.







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14.2.2 KPW937A4

Before Installation



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- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorized parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

For any inquiries, contact your local distributor.

Cautions on product corrosion

- 1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
- 2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided and choose an outdoor unit with anti-corrosion treatment.



The air conditioners manufactured by Daikin Industries have received **ISO 9001** certification for quality assurance.

Certificate Number JMI-0107 JQA-0495 JQA-1452



All Daikin Industries locations and subsidiaries in Japan have received environmental management system standard ISO 14001 certification

Daikin Industries, Ltd. Domestic Group Certificate Number. EC99J2044

About ISO 14001

ISO 14001 is the standard defined by the International Organization for Standardization (ISO) relating to environmental management systems. Our group has been acknowledged by an internationally accredited compliance organisation as having an appropriate programme of environmental protection procedures and activities to meet the requirements of ISO 14001.

Dealer

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