## OWNER'S MANUAL

DC Inverter V5 X Series Outdoor Unit

Thank you very much for purchasing our air conditioner, Before using your air conditioner, please read this manual carefully and keep it for future reference. Caution: The manual is applicable for the cooling & heating and cooling only outdoor unit. The cooling&heating indoor unit is applicable for the cooling&heating and the cooling only outdoor unit; the heating capacity of the indoor unit will be effective only when the indoor unit connect to the cooling&heating outdoor unit.

	Troubles	Causes
	Outdoor unit  White mist or water	FAN function stop automatically to defrost. It is the start and stop sound of the solenoid valve
	The sound of "hiss"	<ul> <li>At the beginning and the end of the running process, sounds like water flow in valve occurs, which will be amplified in 3~15 minutes, this is caused by dehumidifying process of refrigerant current.</li> </ul>
		Slight hiss is caused by heat exchanger as temperature changes.
Not malfunction	Indoor unit  Bad odor	Pieces of the wall, carpet, furniture, cloth cigarette, cosmetics are adhere to the unit.
	Operation lamp flashes	Switch on the power after the power cut.
	No priority of Standby on panel is lightened	Other equipment preheating process stops cooling operation.
		The operator sets an opposite mode agains the fixed cooling and heating mode.
		FAN mode stops to avoid cold air blown out.
		The master unit with slave units for differen purposes, when abnormal accident happen, the director will illustrate.
	Start or stop operation automatically	Wrong operation on timer.
		Whether the power is cut.
		Whether manual power switch is turned on.
		Whether the fuse is melted.
	No operation	Whether the protection device works (operation lamp is lightened)
		Whether it is the time set.
Check it again		Whether the inlet and outlet of outdoor unit is blocked.
		Whether the door and window are open.
		Whether the air filter is blocked by dust.
	Insufficient cooling	Whether the air deflector is in the right place
	Insufficient heating	Whether fan speed is slight or whether it is in FAN mode.
		Whether the temperature is set properly.
		Whether setting COOL and HEAT simultaneously. (Indicator light Standby or No Priority on panel is lightened)

此页不做印刷,仅做变更说明:

C升级到D: 第三页增加面板仅供参考描述。

A升级到B: 更改第2页操作和性能描述中, A/C改为DC, SW2改为S5; 更改说明书的第5页表5-1的第21、22、33、34行内容 更改说明书的第18页点检附加说明中模式优先的说明 内容,由原来的先开优先,改为63号机和多开优先。 B升级到C: 更改第三页表3-1的制热温度范围。

		outdoor nuit's DSP1	Table.5-1	
No.	Error code	Error or protection type	Note	
1	E0	Outdoor unit COMM.Error	Only display in slave unit	
2	E1	Phase protection		
3	E2	COMM.Error with indoor unit	20 munites after first power on or indoor and outdoor communication break off over 2 munites after first power on 20 munites	
4	E3	Reserve		
5	E4	Outdoor temp. sensor error		
6	E5	Voltage protecation		
7	E6	Reserve		
8	E7	Discharge temp.sensor error		
9	E8	Outdoor unit address error		
10	xE9	Mismatch of drive model	X represents for a system, 1 is A system, 2 is B system	
11	xH0	COMM. Error between IR341 and main chip		
12	H1 H2	COMM. Error between 0537 and main chip		
13		Qty.of outdoor unit decreases error	Only main unit will display	
14 15	H3 xH4	Qty.of outdoor unit increases error unrecoverable module protection outage(P6)	Only main unit will display  X represents for a system, 1 is A system, 2 is B system,Not recoverable until re-power on	
16	H5	3 times of P2 protection in 60 munites	Not recoverable until re-power on	
17	Н6	3 times of P4 protection in 100 munites	Not recoverable until re-power on	
18	Н7	Qty.of indoor units decreases error	Indoor unit lost for over 3 munites; not recoverable, until the unit qty. recover	
19	Н8	High pressure sensor error	Air discharging pressure Pc≤0.3MPa	
20	Н9	3 times of P9 protection in 60 minutes	Not recoverable until re-power on	
21	Нс	Reserve		
22	F0	3 times of PP protection in 150 minutes	Not recoverable until re-power on	
23	C7	3 times of PL protection in 100 minutes	Not recoverable until re-power on	
24	yHd	Auxiliary unit error (y=1,2,3.e.g,1Hd stands for auxiliary unit1 error)	Y represents for a unit which is not No. 0	
25	P0	Inverter compressor top Temp.protection		
26	P1	High pressure protection		
27	P2	Low pressure protection	After 3 times P2 protection in 60 munites will report H5	
28	xP3	Compressor current protection	X represents for a system, 1 is A system, 2 is B system	
29	P4	Discharge Temp.Protection	After 3 times P6 protection in 100 munites will report H6	
30	P5	High condenser Temp.protection		
31	xP6	Inverter module protection	X represents for a system, 1 is A system, 2 is B system, after 3 times P6 protection in 60 munites will report H4	
32	P9	DC fan protection	After 3 times P9 protection in 60 munites will report H9	
33	PL	Inverter module Temp.sensor error	After 3 times PL protection in 100 munites will report C7	
34	PP	Protection of insufficient in degree of superheat of compressor discharging	After 3 times PP protection in 150 munites will report F0	
35	xL0	DC compressor module error	X represents for a system, 1 is A system, 2 is B system	
36	xL1	DC bus low pressure protection	X represents for a system, 1 is A system, 2 is B system	
37	xL2	DC bus high pressure protection	X represents for a system, 1 is A system, 2 is B system	
 38	xL3	Reserve	X represents for a system, 1 is A system, 2 is B system	
39 39	xL4	MCE error/synchronization/closed loop	X represents for a system, 1 is A system, 2 is B system	
40	xL5	Zero speed protection	X represents for a system, 1 is A system, 2 is B system	
41	xL6	Reserve	X represents for a system, 1 is A system, 2 is B system	
42	xL7	Phase error protection	X represents for a system, 1 is A system, 2 is B system	
43	xL8	Protection of the speed change between a moment	X represents for a system, 1 is A system, 2 is B system	
43 44	xL9	before and after is >15Hz  Protection of the speed change between the setting	X represents for a system, 1 is A system, 2 is B system	

/laitunct	ion display of o	outdoor nuit's DSP1	Table.5-
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35	xL0	DC compressor module error	X represents for a system, 1 is A system, 2 is B syst
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37	xL2	DC bus high pressure protection	X represents for a system, 1 is A system, 2 is B syst
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39	xL4	MCE error/synchronization/closed loop	X represents for a system, 1 is A system, 2 is B syst
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41	xL6	Reserve	X represents for a system, 1 is A system, 2 is B system.
 42	xL7		X represents for a system, 1 is A system, 2 is B syst
42 43	xL7	Phase error protection  Protection of the speed change between a moment before and after is > 15Hz	X represents for a system, 1 is A system, 2 is B syst  X represents for a system, 1 is A system, 2 is B syst
		neinre ann aiter le >15H7	

If the problem still existing, please contact the sales distributor or the service center, tell us your model No. and the detail of the error.

 MALFUNCTION					
Malfunct	ion display of c	outdoor nuit's DSP1	Table.5-1		
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7	E6	Reserve			
8	E7	Discharge temp.sensor error			
<u>9</u> 10	E8 xE9	Outdoor unit address error  Mismatch of drive model	X represents for a system, 1 is A system, 2 is B system		
11	xH0	COMM. Error between IR341 and main chip	A represents for a system, it is A system, 2 is B system		
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 17	H6	3 times of P4 protection in 60 munites	Not recoverable until re-power on  Not recoverable until re-power on		
		3 times of P4 protection in 100 munites	Indoor unit lost for over 3 munites; not recoverable,		
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	xL7				
42 43	xL7 xL8	Phase error protection  Protection of the speed change between a moment	X represents for a system, 1 is A system, 2 is B system  X represents for a system, 1 is A system, 2 is B system		

IMPORTANT SAFETY INFORMATION..... ■ Do not dispose this product as unsorted municipal PARTS NAMES...... waste. Collection of such waste separately for special treatment is necessary. OPERATION AND PERFORMANCE..... TROUBLES AND CAUSES.....

■ Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. CONSTRAINT COOLING AND QUERY..... Contact you local government for information regarding the connection systems available.

■ If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundeater and get into the food chain, damaging your health and well-being.

Keep far away from high-frequency equipment. To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect

actions should be taken.

does not leak.

Keep away from the following places: a place where it is full of ail gas; a place where salty air surrounding or near the coast (except for the models with corrosion-resistant function); a place where is caustic gas(the sulfide in hot spring). Location in the following places may cause malfunction or shorten the life span of the machine.

■ In the frequent thunderstruck place, lightningproof

When the system is installed and runs in a small room, it is

required to keep the concentration of the refrigerant, if by any

chance coming out, below the limit. Otherwise, oxygen in the

■ The refrigerant in the air conditioner is safe and normally

■ To prevent refrigerant leak, contact your dealer.

room may be affected, resulting in a serious accident.

■ In the case of extremely strong wind, please prevent the air from flowing backwards into the outdoor unit. WARNING Failure to observe a warning may result in death. The Snow canopy is necessary in snowfall places on the outdoor unit. Please consult the local dealer for details. appliance shall be installed in accordance with national

wiring regulations. \_ \_ \_ CAUTION \_ \_ \_ \_ \_ \_ \_ \_ Failure to observe a caution may result in injury or damage to the equipment.

CONTENTS

MALFUNCTION.....

carefully.

AFTER-SALES SERVICE......

1. IMPORTANT SAFETY INFORMATION

operation due to ignoring of instructions may cause harm or

The safety precautions listed here are divided into two categories. In

either case, important safety information is listed which must be read

WARNING

Ask your dealer for installation of the air conditioner. Incomplete installation performed by yourself may result in a water leakage, electric shock, and fire.

other wires when a fuse blows out.

Constraint Cooling

wind speed is HIGH.

Use application of the SW2 spot check

utdoor unit address

Outdoor unit itself capacity

Modular outdoor unit qty.

Qty.setting of indoor units

Total capacity of outdoor unit

otal requirement of main unit

This outdoor unit actual operation

Operation mode

Speed of fan A Speed of fan B

3 pipe temp.

T4 ambient temp.

Heat sink Temp.

High pressure

riority mode

OC voltage A DC voltage B Reserve

owner's manual

Discharge Temp.of Inverter compressor A

Discharge Temp.of Inverter compressor B

Opening angle of EXV A Opening angle of EXV B

Low pressure(Reserve) Qty. of Indoor units

Night noise control mode

Qty. of the working Indoor units

he last-time error or the protection

Times of error clearance

urrent of inverter compressor A

Current of inverter compressor B

T2B/T2 average temp

Ask your dealer for improvement,repair,and maintenance. Incomplete improvement, repair, and maintenance may result in a water leakage, electric shock, and fire.

■ In order to avoid electric shock, fire or injury, or if you detect any abnormality such as smell of fire, turn off the power supply and call your dealer for instructions.

Use of wire or copper wire may cause the unit to break down or cause a fire. ■ Do not insert fingers, rods or other objects into the air inlet or outlet.

When the fan is rotating at high speed, it will cause injury.

■ Never replace a fuse with that of wrong rated current or

■ Never use a flammable spray such as hair spray, lacquers paint near the unit. It may cause a fire. Never touch the air outlet or the horizontal blades while

the swing flap is in operation. Fingers may become caught or the unit may break down.

■ The appliance shall be installed in accordance with national wiring regulations

right), all the indoor unit will be on forced cooling mode and the

Display content (Normal display)

Never inspect or service the unit by yourself. Ask a qualified service person to perform this work.

the outdoor unit.

An electric shock may happen.

Do not touch the heat exchanger fins.

These fins are sharp and could result in cutting injuries. ■ After a long use, check the unit stand and fitting for If damaged, the unit may fall and result in injury.

with the air conditioner.

furniture etc.

Adverse influence to little children, animals and plants may

Notice to avoid places where operation noise may easily be spread away or be enhanced.

outlet of outdoor unit. If the refrigerant leaks in the room, contact with a fire of a burner, a heater or a cooker may result in a harmful gas. ■ Turn off any combustible heating devices, ventilate the

room, and contact the dealer where you purchased the Do not use the air conditioner until a service person confirms that the portion where the refrigerant leaks is repaired.

CAUTION

■ The cooling&heating indoor unit is applicable for the cooling&heating and the cooling only outdoor unit; the heating capacity of the indoor unit will be effective only when the indoor unit connect to the cooling&heating outdoor unit.

Do not use the air conditioner for other purposes. In order to avoid any quality deterioration, do not use the unit

for cooling precision instruments, food, plants, animals or works of art.

6. CONSTRAINT COOLING AND QUERY MAIN BOARD (OUTDOOR UNIT) Once pressing the constraint cooling button(see the chart on the

Note

0, 1, 2, 3

main unit

Available for

main unit

Available for

main unit

Available for

main unit

0, 2, 3, 4

Capacity

requirement

Actual value

Actual value

Actual value

Actual value

Actual value

Actual value Actual value +30

Actual value

Actual value

Display value × 0. 1MPa

ith indoor units

Actual value

0, 1, 2, 3 0, 1, 2, 3

the panal will diaplay 8.8.8.

Fig.6-1

The display contents as followings: (1) Normal display: When standby, the high positon displays the adress of the outdoor unit, and the low position displays the Qty.of indoor units that can communicate with outdoor unit .When it is operating, it will display the rotation frequency of the compressor. (2) Operation mode: 0-OFF; 2-Cooling; 3-Heating; 4-Constraint (3) Fan speed: 0-stop; 1~15: speed increase sequentially, 15 is (4) EXV opening angle: Pulse count=display value×8; (5) Priority mode: 0-heating priority mode; 1-cooling priority mode 2-Number 63 & the more operating mode first; 3-respond the heating mode only; 4-respond the cooling mode only. (6) Night noise control mode:0-Night noise control mode; 1- silent mode; 2-most silent mode; 3-no priority. (7) Static pressure mode:0-Static pressure is 0 Mpa; 1-Static pressure mode is low pressure; 2-Static pressure mode is medium pressure; 3-high static pressure mode is high pressure.

7. AFTER-SALE SERVICE

If the air conditioner was operate abnormally, please plug off the power supply firstly, and contact with After-sales Center or Special Distributor. For detail please refer to the attached accessory Consumer Service Instruction.

■ Before cleaning, be sure to stop the operation, turn the 2. PARTS NAMES breaker off or pull out the supply cord. Otherwise, an electric shock and injury may result.

earth leak detector is installed. Be sure the air conditioner is grounded. In order to avoid electric shock, make sure that the unit is grounded and that the earth wire is not connected to gas or water pipe, lightning conductor or telephone earth wire.

In order to avoid injury, do not remove the fan guard of Do not operate the air conditioner with a wet hand.

■ To avoid oxygen deficiency, ventilate the room sufficiently if equipment with burner is used together

Arrange the drain hose to ensure smooth drainage. Incomplete drainage may cause wetting of the building,

■ Never expose little children, plants or animals directly to the air flow.

■ Noise can be amplified by anything blocking the air

■ Choose a proper place that the noise and hot or cold wind blown out of the outdoor unit will not bring inconvenience to your neighbors and not affect the growth or animal or plant.

Do not allow a child to mount on the outdoor unit or avoid placing any object on it. Falling or tumbling may result in injury. Do not operate the air conditioner when using a room

fumigation - type insecticide.

fire may break out.

owner's manual

deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals. ■ Do not place appliances which produce open fire in places exposed to the air flow from the unit or under the indoor unit.

Failure to observe could cause the chemicals to become

It may cause incomplete combuston or deformation of the unit due to the heat. ■ Do not install the air conditioner at any place where flammable gas may leak out. If the gas leaks out and stays around the air conditioner, a

■ The appliance is not intended for use by young children or infirm persons withoutsupervision.

Young children should be supervised to ensure that they do not play with the appliance.

In order to avoid electric shock or fire, make sure that an

vice versa while the heating. )

The figure shown above is for reference only, the specific panel Air inlet (Both in Left and right sides, as well as in rear side.) Refrigerant pipe connective opening and wires outlet r outlet (heat air to be blows out in the cooling operation,

All the pictures in this manual are for explanation purpose only, There may be slightly different from the air conditioner

you purchased (depend on model). The actual shape shall

To avoid danger, never put sticks or other objects into it. Please preheat the air conditioner for at least 12 hours before operation. Do not switchoff the power if you need to stop the unit for 24h or shorter time. (This is to heat the crank case heater to avoid the compulsive start of compressor.)

■ Make sure the air inlet and outlet are not blocked, or it may

degrade the performance of air conditioner or start up protector which will stop the unit from running. 20°C ~ 24°C ≤27°C

3. OPERATION AND PERFORMANCE

Cooling and heating operation of inverter central DC

• The indoor unit of this air conditioner can be controlled solely, and the indoor unit in the same system can not run cooling and heating at the same time. When the Cooling and Heating operation confront with each

other, please determine the problem according to the settings of outdoor unit Mode dial code S5. 1. When set as the Heating Priority Mode, the indoor unit on Cooling Mode would stop and there will be Standby or No Priority displayed on the control panel. Those indoor units which are running on Heating Mode will run continuously.

2. When the Cooling Priority Mode has been set, the indoor unit on Heating Mode would stop and there will be Standby or No Priority displayed on the control panel. Those indoor units which are running on Cooling Mode will run continuously;

work in Heating Mode that is Heating Priority, please refer to the ITEM 1 for the control logic. If the first indoor unit is work in Cooling Mode, that is the Cooling Priority Mode, please refer to the ITEM 2 for the control logic; 4. In terms of the settings only respond the Heating Mode, the indoor unit will run in Heating Mode normally, if unit be run in the

Features of heating operation

hot, then blows out warm air.

running under high temperature.

Defrost in the heating operation

indoor unit will stop running.

following temperature conditions:

Operation conditions

Conflicting.

Cooling Mode or air Supply Mode, the indoor unit will display Mode Conflicting; 5. In terms of the settings only respond the Cooling Mode, the indoor unit will run in Cooling Mode or air supply mode normally, if unit be run in the Heating Mode, the indoor unit will display Mode

outdoor temperature), until the indoor heat exchanger become

During operation, the fan motor in the outdoor unit may stop

During Fan operation, if other indoor Units are running on heating

mode, the fan may stop in order to prevent sending heat wind.

During heating operation, outdoor unit sometimes will frost. To

During defrosting, both the fan motors in the outdoor unit and

For proper performance, run the air conditioner under the

Outdoor Indoor Room relative

below 80%

temperature temperature humidity

C ~ 48°C | 17°C ~ 32°C |

NOTE

Protective device may start if running the unit outside the

above condition, which will prevent the unit from operation.

increase efficiency, the unit will start defrosting automatcally

(about 2~10 minutes), and then water will be drained out from

3. When the Priority Mode has been set, the first indoor unit will

outdoor unit. heating operation:

**Protection Device** 

cooling operation:

following circumstances:

 Too much dust and rubbish adhere to the dust filter in the Warm air will not be blown out immediately at the beginning of the heating operation, after 3~5minutes (depends on the indoor and

> If power is cut during operation, stop all the operation Power comes again. The operation indicator on the wire

• The air inlet or air outlet of outdoor unit is blocked.

This protection device will stop the unit automatically in case

device is activated, running indicator light is lightened and

query light flashes. Protection device may start under the

Strong wind is continuously blowing to the air outlet of the

the air conditioner is on forced running mode. When protection

controller flashes. Push the ON/OFF button again if you want to restart the Mishanding in operation

In case of mishandling caused by lighting or mobile wireless,

please switch off the manual power off the manual power. Push ON/OFF again when restarting.

Heating capacity The heating process is :absorb heat from outdoor, while expel heat to indoor by hot pump. Once the outdoor

temperature drop down, heating capacity is degraded It is command to equip with other warming facility, when

outdoor temperature is low. It is better to equip with additional purchase indoor auxiliary heating device in paramos area where is in

Operation Manual for detail information)

NOTE

Please switch off the power when protection device starts.

particularly low outdoor temperature.(See Indoor Unit

4. TROUBLES AND CAUSES

Do not restart until the problems are solved.

CAUTION

■ In case the following malfunctions, please switch off the

Fuse or leakage protector is frequently broken.

Foreign matter or water falls in the unit.

power and contact the local dealer.Incorrect ON/OFF

owner's manual

MD13U-018DW

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