Haier SERVICE MANUAL

Order No.AC1205S001V0

Wall mounted Type

ON/OFF EK-Series

Model No. HSU09XHK **HSU12XHK**





HSU09/12XHK

HSU09/12XHK

indoor unit and remote controller

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death

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1. Introduction

1.1 Safety Cautions

Be sure to read the following safety cautions before conducting repair work.

The caution items are classified into "Warning" and "Caution". The "Warning" items are especially important since they can lead to death or serious injury if they are not followed closely. The "Caution" items can also lead to serious accidents under some conditions if they are not followed. Therefore, be sure to observe all the safety caution items described below.

About the pictograms

 $\Delta\,$ This symbol indicates an item for which caution must be exercised.

The pictogram shows the item to which attention must be paid.

O This symbol indicates a prohibited action.

The prohibited item or action is shown inside or near the symbol.

• This symbol indicates an action that must be taken, or an instruction.

The instruction is shown inside or near the symbol.

After the repair work is complete, be sure to conduct a test operation to ensure that the equipment operates normally, and explain the cautions for operating the product to the customer.

1.1.1 Caution in Repair

Warning

Be sure to disconnect the power cable plug from the plug socket before disassembling the equipment for	
a repair.	
Working on the equipment that is connected to a power supply can cause an electrical shook.	
If it is necessary to supply power to the equipment to conduct the repair or inspecting the circuits, do not	
touch any electrically charged sections of the equipment.	
If the refrigerant gas discharges during the repair work, do not touch the discharging refrigerant gas. The	\wedge
refrigerant gas can cause frostbite.	\bigcirc
When disconnecting the suction or discharge pipe of the compressor at the welded section, release the	
refrigerant gas completely at a well-ventilated place first.	
If there is a gas remaining inside the compressor, the refrigerant gas or refrigerating machine oil	
discharges when the pipe is disconnected, and it can cause injury.	
If the refrigerant gas leaks during the repair work, ventilate the area. The refrigerant gas can generate	
toxic gases when it contacts flames.	U
The step-up capacitor supplies high-voltage electricity to the electrical components of the outdoor unit.	
Be sure to discharge the capacitor completely before conducting repair work.A charged capacitor can	
cause an electrical shock.	
Do not start or stop the air conditioner operation by plugging or unplugging the power cable plug.	\frown
Plugging or unplugging the power cable plug to operate the equipment can cause an electrical shock or	()
fire.	V

Warning	
Do not repair the electrical components with wet hands. Working on the equipment with wet hands can cause an electrical shock.	\bigcirc
Do not clean the air conditioner by splashing water. Washing the unit with water can cause an electrical shock.	\bigcirc
Be sure to provide the grounding when repairing the equipment in a humid or wet place, to avoid electrical shocks.	₽
Be sure to turn off the power switch and unplug the power cable when cleaning the equipment. The internal fan rotates at a high speed, and cause injury.	
Do not tilt the unit when removing it. The water inside the unit can spill and wet the furniture and floor.	\bigcirc
Be sure to check that the refrigerating cycle section has cooled down sufficiently before conducting repair	
work. Working on the unit when the refrigerating cycle section is hot can cause burns.	
Use the welder in a well-ventilated place. Using the welder in an enclosed room can cause oxygen deficiency.	0

1.1.2 Cautions Regarding Products after Repair

Warning	
Be sure to use parts listed in the service parts list of the applicable model and appropriate tools to	
conduct repair work. Never attempt to modify the equipment. The use of inappropriate parts or tools can	
cause an electrical shock, excessive heat generation or fire.	
When relocating the equipment, make sure that the new installation site has sufficient strength to	
withstand the weight of the equipment.	
If the installation site does not have sufficient strength and if the installation work is not conducted	
securely, the equipment can fall and cause injury.	
Be sure to install the product correctly by using the provided standard installation frame.	For
Incorrect use of the installation frame and improper installation can cause the equipment to fall, resulting	integral
in injury.	units only
	For
Be sure to install the product securely in the installation frame mounted on a window frame.	integral
If the unit is not securely mounted, it can fall and cause injury.	units only

Be sure to use an exclusive power circuit for the equipment, and follow the technical standards related to he electrical equipment, the internal wiring regulations and the instruction manual for installation when conducting electrical work. Insufficient power circuit capacity and improper electrical work can cause an electrical shock or fire. Be sure to use the specified cable to connect between the indoor and outdoor units. Make the connections securely and route the cable properly so that there is no force pulling the cable at the connection terminals. Improper connections can cause excessive heat generation or fire. When connecting the cable between the indoor and outdoor units, make sure that the terminal cover does tot lift off or dismount because of the cable. If the cover is not mounted properly, the terminal connection section can cause an electrical shock, excessive heat generation or fire. Do not damage or modify the power cable. Damaged or modified power cable can cause an electrical shock or fire. Placing heavy items on the power cable, and heating or pulling the power cable can damage the cable. Do not mix air or gas other than the specified refrigerant (R-410A / R22) in the refrigerant system. f air enters the refrigerant gas leaks, be sure to locate the leak and repair it before charging the refrigerant. After charging refrigerant, make sure that there is no refrigerant leak. f the leak cannot be located and the repair work must be stopped, be sure to perform pump-down and close the service valve, to prevent the refrigerant gas from leaking into the room. The refrigerant gas itself is hamaless, but it can generate toxic gases when i		
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	When replacing the coin battery in the remote controller, be sure to disposed of the old battery to prevent	
f a child swallows the coin battery, see a doctor immediately.	children from swallowing it.	
	If a child swallows the coin battery, see a doctor immediately.	

Caution	
Installation of a leakage breaker is necessary in some cases depending on the conditions of the	
installation site, to prevent electrical shocks.	
Do not install the equipment in a place where there is a possibility of combustible gas leaks. If a combustible gas leaks and remains around the unit, it can cause a fire.	\bigcirc
Be sure to install the packing and seal on the installation frame properly. If the packing and seal are not installed properly, water can enter the room and wet the furniture and floor.	For integral units only

1.1.3 Inspection after Repair

Warning

Check to make sure that the power cable plug is not dirty or loose, then insert the plug into a power outlet all the way.

If the plug has dust or loose connection, it can cause an electrical shock or fire.

If the power cable and lead wires have scratches or deteriorated, be sure to replace them. Damaged cable and wires can cause an electrical shock, excessive heat generation or fire.

Warning

Do not use a joined power cable or extension cable, or share the same power outlet with other electrical appliances, since it can cause an electrical shock, excessive heat generation or fire.



Caution	
Check to see if the parts and wires are mounted and connected properly, and if the connections at the	
soldered or crimped terminals are secure. Improper installation and connections can cause excessive	
heat generation, fire or an electrical shock.	
If the installation platform or frame has corroded, replace it. Corroded installation platform or frame can	
cause the unit to fall, resulting in injury.	
Check the grounding, and repair it if the equipment is not properly grounded. Improper grounding can cause an electrical shock.	
Be sure to measure the insulation resistance after the repair, and make sure that the resistance is 1 M	
ohm or higher.	
Faulty insulation can cause an electrical shock.	
Be sure to check the drainage of the indoor unit after the repair.	
Faulty drainage can cause the water to enter the room and wet the furniture and floor.	

1.1.4 Using Icons

Icons are used to attract the attention of the reader to specific information. The meaning of each icon is described in the table below:

1.1.5 Using Icons List

lcon	Type of Information	Description
-		A "note" provides information that is not indispensable, but may
Note:	Note	nevertheless be valuable to the reader, such as tips and tricks.
^		A "caution" is used when there is danger that the reader, through
Caution	Caution	incorrect manipulation, may damage equipment, loose data, get an
		unexpected result or has to restart (part of) a procedure.
	Warning	A "warning" is used when there is danger of personal injury.
		A "reference" guides the reader to other places in this binder or in
E	Reference	this manual, where he/she will find additional information on a
		specific topic.

2. List of Functions

Category	Functions	HSU09XH	(HSU12XHK		
Healthy negative ion	make your room full of an abundance natural negative ions.	Y	Y		
Child lock	Avoid the child's wrong operation on the remote controller	Y	Y		
Dry function	Make dehumiditying in the room when the unit is working in the "DRY" mode.	Ν	Ν		
24Hour timer	Use the timer function to set on,or off,or from on to off,or from off to on	Y	Y		
Auto restart	automatic return to previous operation conditions after asundden power blackout	Y	Y		
Easy clean design	The panel is easy to wash and the airflow vents can be detached easily	Y	Y		
Intelligent air	With twin-blade technology ,the airflow can be adjusted not to blow directly	N	N		
Anti-mold filter	-mold filter Catches most small particles and remove unpleasant odors effectively.				
Sleep mode	Y	Y			
4 Fan setting	Slect the fan speed LO,MED,HI,AUTO	Y	Y		
Auto mode	Acoording to the fixed temperature,the unit will adjust the operation mode automatically.	Y	Y		
Power mode	Quick cooling or heating	Y	Y		
Soft mode	lower noise operation condition	N	N		
Negative ion filter	Generate negative ions by the filter.	N	Ν		
Constant temperature dehumidification	Make dehumidifying in the room while keeping the constant temperature inside	N	N		

Note: Y: Holding Functions

 ${\sf N}:{\sf No}\ {\sf Functions}$

3 Specifications

			HSU09	ХНК	HSU12XHK		
Model			Cooling Heating		Cooling Heatin		
		KW	2.64	2.78	3.51	3.51	
Capacity Rated(Min.~Max.)		Btu/h	9000	9500	12000	12000	
	,	kal/h			3023	3023	
Moisture Removal		L/h	1.5	5	1	.7	
Running Current(R	ated)	Α	7.1 7.5		9.5 9.7		
Power Consumption (Min.~Max.)	on Rated	W	800	850	1080	1100	
Power Factor		%	98	99	99	99	
COP Rated		W/W	3.3	3.3	3.3	3.2	
	Liquid	inches	Φ 1/	4	φ.	1/4	
Piping Connections	Gas	inches	Φ 3/	8	φ	3/8	
Connociono	Drain	inches	φ 5/	8	φ	5/8	
Heat Insulation			Both Liquid an	d Gas Pipes	Both Liquid a	ind Gas Pipes	
Refrigerant Circuit							
Max. interunit Pipir	ng Length	feet	49	1/5	49	1/5	
Max. interunit Heig	ht Difference	feet	32 4	4/5	32	4/5	
Chargeless		feet	23	3	2	3	
Amount of Additional Charge of Refrigerant		OZ/Inches	0.018		0.018		
Indoor Unit		1					
Front Panel Color			Whi	te	White		
		Н	8.3/9).1	9.2/	/10.0	
	m³/min(cfm)	М	7.0/7.8		8.0/8.8		
Air Flow Rate		L	6.4/7	⁷ .2	6.8/7.7		
		SL	-		-		
	Туре	e	Cross Flow Fan		Cross Flow Fan		
Fan	Motor Output	W	20		20		
	Speed	Steps			,Silent,Auto		
Air Dire	ction Control		Right,Left,Horizontal,Downward		Right,Left,Horizontal,Downward		
Air Filter			Removable/Washable/Mildew Proof		Removable/Washable/Mildew Proof		
Running Curre	nt(Rated)	A	0.15	0.15	0.15	0.15	
Power Consump	. ,	w	18		18	18	
Power Factor		%	98 99		99 99		
Temperature Control		Microcomputer Control		Microcomputer Control			
Dimensions(HxWxD) inches		10 3/7 × 31 2/7 × 7 1/3		10 3/7 x 3	7 x 7 1/3		
Packaged Dimensions(HxWxD) inc		inches	14 1/6 x 34 2/7 x 12		14 1/6 × 40 × 12		
- , ,		lbs	19.4		23.2		
		lbs	24.9		27	7.6	
Operation Sound H/M/L dBA		dBA	42/37/35		43/39/35		
Sound Power	н	dBA	52		53		

Outdoor Unit			HSU09XHK		HSU12XHK		
Casing Color			White		White		
	Туре		Rotary Compressor		Rotary Con	Rotary Compressor	
Compressor	Modle		44A231B		44A281B		
	Motor Output	W	920		112	1125	
Refrigerant oil	Model	ŀ	NMOC Ze-Gles RB68EP			NMOC Ze-Gles RB68EP	
	Charge	pints	0.	48	0.48	0.48	
	Model		R410a		R410	R410a	
Refrigerant	Charge	lbs	2.	07	2.92	2	
	m³/min		26.7	27.5	33.3	34.1	
Air Flow Rate(H/L)	cfm		942.5	970.8	1175.5	1203.7	
F	Туре		Axial fiow fan		Axial fio	Axial fiow fan	
Fan	Motor Output	W	28		28		
Running Current(Rated)	1	A	7.1	7.5	9.5	9.7	
Power Consumption(Rate	d)	W	800	850	1080	1100	
Power Factor		%	98	99	99	99	
Starting current		A	20		26		
Dimensions(HxWxD)		inches	24 1/4 × 30 5/7 × 9 2/3		25 1/4 x 30 5/7 x 9 2/3		
Packaged Dimensions(HxWxD)		inches	24 1/6 x 36 3/5 x 13 2/5		28 1/9 × 36 3/5 × 13 2/5		
Weight		pints	69.4		78.3		
Gross Weight		pints	74.5		83.	83.3	
Operation Sound	H/L	dBA	52	52	52	52	
Sound Power	Н	dBA	62	62	62	62	

Note:The dada are based on the conditions shown in the table below.

Cooling	Heating	Piping Length
Indoor:80.6 °FDB/66.2 °F WB Outdoor:95 °FDB/75.2 °F WB	Indoor:68 °F DB Outdoor:44.6° FDB /42.8 °F W B	16 2/5 feet

Outdoor:35°CDB/24°CWB

Conversion Formulae kal/h=kWx860 Btu/h=kWx3414 cfm=m³/minx35.5

4. Printed Circuit Board Connector Wiring Diagram

4.1 Indoor unit

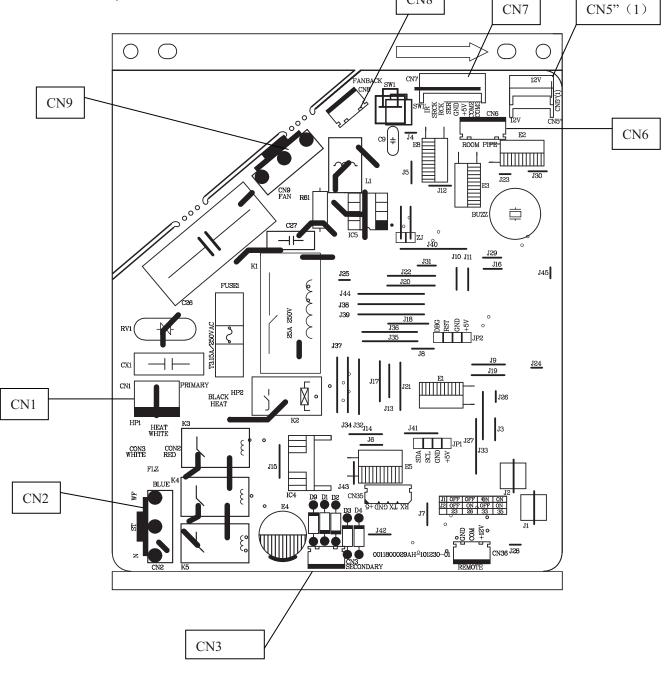
Connectors Indoor PCB

1)CN1connector for transformer.

- 2)CN2 connector for power line.
- 3)CN3 connector for transformer.
- 4)CN5" (1) connector for up and down step motor.
- 5)CN6 connector for ambient temp. sensor and piping temp.sensor.

CN8

- 6)CN7 connector for receiver display.
- 7)CN8 connector for AC fan speed.
- 8)CN9 connector for AC fan motor.



5. Functions and Control

5.1 main functions and control specifications

Including brief introduction to air conditioners of series models and electric control function.

5.1.1 Automatic running mode

(1) Single cold automatic run mode:

After entering into this mode, the main control "MCU" determines the corresponding work pattern according to the indoor temperature so as to maintain the preset temperature (the preset temperature is 78°F). When the indoor temperature is below 78°F, outlet air from compressor is off, the automatic wind from fan motor is low, and wind can be set to high, medium or low by hand. When the indoor temperature is or above 78°F, the unit enters the cooling mode and conducts the cooling programme (the preset temperature is 78°F), outlet air from compressor is on and indoor fan motor run in fixed wind speed.

(2) Automatic running mode

When the running mode is turned to automation after starting the system, the system will first determine the running mode according to the current room temperature and then will run according to the determined mode. Tr in the following selection conditions means room temperature, Ts means setting temperature, Tp means temperature of indoor coil pipe

a. Tr≥74°F running cooling mode

b. Tr<74°F running heating mode

After turning to the automation mode, the running mode can be switched between cooling mode, fan mode and heating mode according to the change of the indoor ambient temperature. But the automatic conversion between cooling mode and heating mode must be conducted after 15 minutes.

5.1.2 Indoor temperature control

Temperature control range : 60°F ---86°F

Temperature control precision: ±2°F

Compressor can't be controlled by temperature sensor within 2 minutes after it starts

5.1.2.1 Cooling mode:

When Tr> Ts, outdoor fan motor and compressor on, and indoor fan motor run at fixed wind speed. When Tr < Ts, outdoor fan motor and compressor off, and when Tr > Ts, outdoor fan motor and compressor are working again .If Tr=Ts, the indoor fan motor , outdoor fan motor and the compressor's state will not change. 5.1.2.2 Heating mode:

When $Tr \leq Ts$, compressor, four-ways valve and outdoor fan motor is on, indoor fan

motor runs as in cold blast avoidance mode, and 7°F of compensation is added after compressor is started.

When Tr>Ts+9°F, compressor is off, and the indoor fan motor runs as in cold blast avoidance mode.

When Tr<Ts+9°F, compressor, four-ways valve and outdoor fan motor is on, and the indoor fan motor runs as in anti-cold .

5.1.3 Cooling run mode:

temperature control range : 60°F ---86°F

temperature control precision: ±2°F

compressor can't be controlled by temperature sensor within 2 minutes after it starts.

control character: when $Tr \ge Ts$, outlet air from compressor is on and indoor fan motor run at fixed wind

speed. When Tr< Ts, outlet air from compressor is off , and when Tr > Ts, outlet air from compressor is on. wind speed control: (the temperature difference is 2°F)

auto: When Tr≥Ts+9°F, the wind speed is high;

When Ts+1°F \leq Tr Ts+5°F, the wind speed is medium.

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

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

when the wind speed changes from low to high, there is no delay, and when it changes from high to low, there is a 3-minutes delay before conversion.

Manual operation: When unit is on the wind speed can be set to high, medium, low or automatic as required (execute instruction 2 seconds later after receiving remote signal)

Compressor control: The compressor can't be controlled by temperature sensor within 2 minutes after start up 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 shut down.

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.

High temperature expiration protection:

(1)High temperature expiration prevention:When the temp.of coil pipe is above 161°F,compressor and outlet air stop running 10 seconds later, and inlet air runs as the temp. sensor is off. When compressor stands by for 3 minutes and the temp. of coil pipe is below 149°F, the unit 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 cooling or dehumidifying mode), the compressor will be shut off when the temperature of the indoor coil pipe is or below 30°F and the compressor runs for over 5 minutes. When the temperature of the indoor coil pipe ascends to over 44°F, the compressor is restarted (must meet a 3-minutes delay)

Timer on, Timer off and sleep control are available.

5.1.4 Dehumidifying mode:

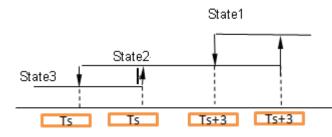
Temperature control range : 60°F ---86°F

Control character:

When Tr (indoor temperature) > Ts (temperature setting) +3°F, compressor and outdoor fan motor run continuosly with indoor fan motor runnig in accordance with the wind speed setting(State 1).

When $Ts \le Tr \le Ts + 3^{\circ}F$, outlet air from compressor is on for 10 minutes and off for 6 minutes, the indoor fan motor is off in 3 minutes after shut down of compressor and gives breeze in other time(State 2).

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(State 3).



When all the ranges alternate, there is $\pm 2^{\circ}$ F difference.

Haier

5.1.5 Heating mode:

*Temperature control range : 60°F ---86°F

*Temperature control precision: 2°F

*Control Character:

When $Tr \leq Ts$, compressor, four-ways valve and outdoor fan motor is on, indoor fan motor runs as in anti-cold , and 7°F of compensation is added after compressor is started.

When Tr>Ts+9°F, compressor is off, and the indoor fan motor runs as in warm blast mode.

When Tr<Ts+9°F, compressor, four-ways valve and outdoor fan motor is on, and the indoor fan motor runs as in anti-cold .

*Control of indoor fan motor:

Manual operation: The wind speed can be set to high, medium, low or automatic as required.

Automatic operation: When Tr < Ts, the wind speed is high;

When $Ts \leq Tr \leq Ts + 3^{\circ}F$, the wind speed is medium.

When Ts+3°F \leq Tr, the wind speed is low.

*Control of air door: setting the position of air door as required.

*Compressor control: The compressor can't be controlled by temperature sensor in 2 minutes after start up and also can't be started again at least 3 minutes later after shut down. There are 3-minute protection with power on for the first time (over 3 minutes with power off). The compressor must be started again 3 minutes later after shut down.

*Avoiding electrical shock: outlet air is available 2 seconds later after start up.

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

*Control of 4-way valve: When the unit is started for the first time, the 4-way valve starts runnig 10 seconds earlier than compressor does. After compressor stops runnig, the 4-way valve continues running for 2 minutes and then stops. If changing the unit from heating to cooling, the 4-way valve is shut off 2 minutes later and compressor is started 3 minutes later.

5.1.5.1 Cold draft prevetion:

5.1.5.1.1 Compressor is interrupted during the defrosting operation and continues to run after defrosting is completed. When the indoor exchanging temperature is below 73°F, the indoor fan motor is off. When the indoor exchanging temperature is above 73°F, the indoor fan motor is running at weak speed.

5.1.5.1.2 If the temperature of coil pipe can't be above 100°F 4 minutes later after start up, fan motor is running at the preset wind speed.

5.1.5.1.3 If the temperature of coil pipe is above 100°F 4 minutes later after start up, fan motor is running at the preset wind speed.

5.1.5.1.4 If coil pipe descends to the temp. lower than 100°F from 100°F. fan motor is running at the preset wind speed.

*Warm blast: If the temperature sensor is off. Compressor stops runnig. If the temperature of coil pipe is above 73°F, fan motor enter breeze mode; and if the temperature of coil pipe is below 68°F, fan motor stops running.

5.1.5.2 High temperature protection and high temperature expiration protection:

5.1.5.2.1 High temperature prevention: When the temp. of coil pipe is above 132°F, the outdoor fan motor stops. When the temp descends to 125°F, the outdoor fan motor is restarted ,fan should keep stopping more than 45 seconds.

5.1.5.2.2 High temperature expiration prevention: When the temp.of coil pipe is above 143°F, compressor and outlet air stop running 10 seconds later, and inlet air runs as the temp. sensor is off. When compressor stands by for 3 minute and the temp. of coil pipe is below 122°F, the unit can be started again.

*Current protection and current expiration protection: (Not detecting within 60 seconds after start up)

*Overcooling protection: One and half a minutes later after compressor starts, if the temperature of coil pipe is below 2°F, compressor and air outlet stop, and air inlet runs according to the temp. setting. Compressor can be restarted 3 minutes later.

5.1.5.3 Defrosting:

5.1.5.3.1 Entry conditions of defrosting:

The entry conditions of defrosting is classified into two types: intelligented defrosting and sensor defrosting. Through selecting and judging, the models without outdoor sensor defrosts according to intelligented defrosting, and others with ensor defrosts according to sensor defrosting.

Intelligented defrosting:

5.1.5.3.1.1 Indoor unit enter overload protection and air outlet stops when air outlet has been restarted and runs over 10 minutes, and compressor runs over 45 minutes in total and over 20 minutes continuously, and the temp. of indoor coil pipe is below 100°F.

5.1.5.3.1.2 Compressor runs 20minutes continuously, and the temp. of indoor coil pipe decreases 2°F per 6 minutes and this operation repeats 3 times, and the temp. of coil pipe is below 100°F, and 5 minutes later after compressor is restarted.

5.1.5.3.1.3 When compressor runs over 3 hours in total and over 20 minutes continuously and after the temp. of indoor coil pipe is below 100°F, the system enters defrosting mode.

5.1.5.3.1.4 The difference between the temp. of indoor coil pipe and the indoot temp. is below 60°F and lasts 5 minutes, compressor runs over 45 minutes in total and over 20 minutes continuously after the temp. of indoor coil pipe is below 100°F, the system enters defrosting mode.

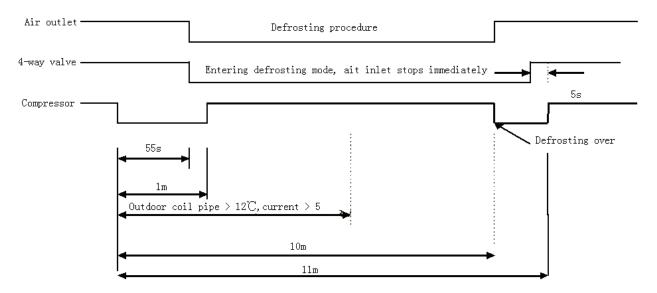
5.1.5.3.2 Exit conditions of defrosting:

Defrosting time is higher than 12 minutes (compressor is on).

5.1.5.3.2.1 During the defrosting, if current peak value is cut off, the unit quit the defrosting mode. But the protection of expiration of current peak value is unavailable with 60 senconds after compressor is started.

5.1.5.3.2.2 During the defrosting and 2 minutes After quiting the defrosting mode, abnormality of temp. sensor isn't detected.

5.1.5.3.2.3 After quiting the defrosting mode, the fan motor enter cooling prevention mode.



5.1.5 Timer function:

You can set 24-hour timer on or timer off as required, and the minum time unit is 1 minute. After setting,

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the indicator of indoor unit is on , and it is off when timer setting is completed. There are several timer mode as follows.

5.1.5.1 Timer on: The LED of "timer on" lights up, and unit behaves with halt status. Timer on is completed, and then unit starts running with the LED of "timer on" off. The unit starts with the last setting receiving timer signals, and sleep setting is not allowed.

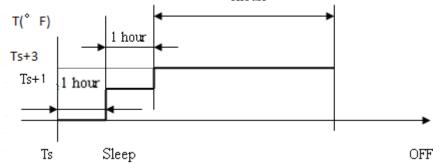
5.1.5.2 Timer off: Unit starts, timer indicator lights up; When reaching time setting, the indicator goes out, unit enters shut down mode, and sleep function can be set. If timer off and sleep are set synchronously, the one which time is short run first. Executing shutdown instruction clear timer and sleep function.

5.1.5.3 Timer on and timer off can be set synchronously.

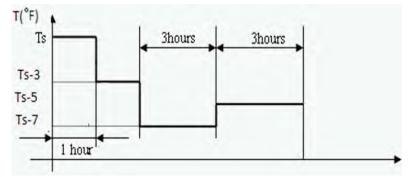
5.1.6 Sleep function:

the timer indicator lights up.

5.1.6.1 In cooling/defrosting mode, the temp. setting increases 1°F one hour later after start up. After another hour the temp. setting increase by more 1°F and then run continuously for another 6 hours and then close.



5.1.6.2 In heating mode, the temp. setting decrease $3^{\circ}F$ one hour after start up. After another hour the temp. setting decrease by more $3^{\circ}F$. After 3 hours the temp. setting rise by $1^{\circ}F$ and then run continuously for another 3 hours and then close.



5.1.6.3 If the wind speed is set to high before going to bed, the wind speed become medium after start up; If the wind speed is set to medium before going to bed, the wind speed become low after start up; If the wind speed is set to low before going to bed, the wind speed keep unchanged.

5.1.7 Emergency switch imput:

5.1.7.1 Press the switch of emergency operation, then buzzer rings once and unit enters the automatic operation mode. (emergency operation)

5.1.7.2 If the switch is kept pressed for 5 seconds, buzzer ring two times and unit enter enter test run mode.

5.1.7.3 Press the switch again, and then closes.

5.1.7.4 Enter emergency operation from timer mode, then timer is cancelled.

5.1.8 Test run:

5.1.8.1 The temperature sensor of inlet air doesn't work, and compressor starts (but subject to the limit of -minute delay excluding the first time), and high wind, cooling, and air door is open. The indoor fan motor runs, running indicator lights up, compressor relay and the one of outdoor fan motor is closed

5.1.8.2 During test run:

The prevention of freezing of evaporator doesn't work.

Current cross control doesn't work.

The control of current cross peak expiration doesn't work.

Temperature control doesn't work.

Temperature expiration control doesn't work.

5.1.9 memory function :

The memory function of power down is available, and the auto recovery function of power on is optional. (In

auto, heating, cooling, or defrosting status, press the "Extra " button to enter additional options, when cycle

dispay to *will* flash, and then press *will*, quickly press *mathematical content*, and then press *mathematical content*, rapidly 10 times within 6 seconds, and the auto recovery function of power on can be set on/off. If the buzzer rings 4 times, the the auto recovery function of power on is available; If the buzzer rings 2 times, the the auto

recovery function of power on is unavailable.)

If there is no EEPROM, the unit is taken off the 'off' function of the memory function of power down. But the memory function of power down can also be set on/off, and the data is the default value of chip.

5.1.10 Alarm from indoor fan motor:

2 minutes later after the indoor fan motor is charged, and the impulse from fan motor is not detected, hen send alarm signals.

_

5.2 Value of Thermistor

5.2.1 Indoor unit

Room sensor

R25℃=23KΩ±3.5%

B25°C/50°C=4200K±3%

Temp.(℃)	Max.(KΩ)	Normal(KΩ)	Min.(KΩ)	Toleran	ce(℃)
-30	568.8372	501.0746	440.8435	-1.97	1.75
-29	530.9600	468.6491	413.1441	-1.95	1.74
-28	495.8488	438.5314	387.3645	-1.93	1.72
-27	463.2850	410.5433	363.3602	-1.91	1.71
-26	433.0683	384.5212	340.9980	-1.90	1.70
-25	405.0156	360.3153	320.1558	-1.88	1.69
-24	378.9588	337.7879	300.7211	-1.86	1.67
-23	354.7440	316.8126	282.5905	-1.84	1.66
-22	332.2300	297.2732	265.6686	-1.82	1.64
-21	311.2873	279.0627	249.8676	-1.80	1.63
-20	291.7969	262.0831	235.1067	-1.78	1.62
-19	273.6494	246.2437	221.3111	-1.76	1.60
-18	256.7445	231.4612	208.4122	-1.74	1.59
-17	240.9897	217.6590	196.3462	-1.72	1.57
-16	226.3000	204.7662	185.0545	-1.70	1.56
-15	212.5973	192.7176	174.4829	-1.68	1.54
-14	14 199.8093 181.4531		164.5813	-1.66	1.53
-13	187.8698	170.9169	155.3033	-1.64	1.51
-12	176.7176	161.0578	146.6059	-1.62	1.49
-11	166.2961	151.8284	138.4495 130.7973 123.6153 116.8717 110.5374 104.5852	-1.60 -1.58	1.48 1.46
-10	156.5532	143.1847			
-9	147.4409	135.0863		-1.56	1.44
-8	138.9148	127.4956		-1.53 -1.51	1.43 1.41
-7	130.9337	120.3778			
-6	123.4597	113.7009		-1.49	1.39
-5	116.4577	107.4349	98.9897	-1.47	1.38
-4	109.8953	101.5523	93.7278	-1.45	1.36
-3	103.7422	96.0274	88.7774	-1.43	1.34
-2	97.9708	90.8365	84.1185	-1.40	1.32
-1	92.5551	85.9574	79.7322	-1.38	1.30
0	87.4712	81.3697	75.6011	-1.36	1.29
1	82.6970	77.0544	71.7088	-1.34	1.27
2	78.2118	72.9937	68.0402	-1.31	1.25
3	73.9966	69.1712	64.5813	-1.29	1.23
4	70.0335	65.5716	61.3188	-1.27	1.21
5	66.3062	62.1807	58.2405	-1.24	1.19

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		N2009/12AN	IN-3IVI	Funcu	ons and Conti
6	62.7992	58.9853	55.3351	-1.22	1.17
7 59.4984 55		55.9729	52.5917	-1.20	1.15
8	56.3905	53.1320	50.0006	-1.17	1.13
9 53.4631		50.4521	47.5523	-1.15	1.11
10	50.7048	47.9230	45.2384	-1.13	1.09
11	48.1049	45.5355	43.0505	-1.10	1.07
12	45.6534	43.2808	40.9813	-1.08	1.04
13	43.3410	41.1509	39.0236	-1.05	1.02
14	41.1592	39.1381	37.1708	-1.03	1.00
15	39.0998	37.2355	35.4167	-1.00	0.98
16	37.1553	35.4363	33.7555	-0.98	0.96
17	35.3186	33.7344	32.1818	-0.95	0.94
18	33.5833	32.1240	30.6905	-0.93	0.91
19	31.9432	30.5997	29.2769	-0.90	0.89
20	30.3925	29.1565	27.9365	-0.88	0.87
21	28.9259	27.7895	26.6651	-0.85	0.84
22	27.5383	26.4944	25.4589	-0.83	0.82
23	26.2252	25.2670	24.3140	-0.80	0.80
24	24.9822	24.1034	23.2271	-0.78	0.77
25	23.8050	23.0000	22.1950	-0.78	0.77
26	22.7500	21.9499	21.1520	-0.78	0.78
27 21.7477 28 20.7951		20.9536	20.1638	-0.82	0.81
		20.0081 19.2272		-0.86	0.85
29	19.8895	19.1104	18.3394 17.4974 16.6988 15.9410 15.2217	-0.89	0.88 0.92 0.95 0.99 1.02
30	19.0285	18.2581		-0.93	
31	18.2094	17.4484		-0.97	
32	17.4302			-1.00	
33		15.9480		-1.04	
34	15.9825	15.2530	14.5389	-1.08	1.06
35	15.3103	14.5920	13.8903	-1.12	1.09
36	14.6700	13.9632	13.2743	-1.16	1.13
37	14.0599	13.3650	12.6889	-1.20	1.16
38	13.4786	12.7957	12.1325	-1.23	1.20
39	12.9244	12.2537	11.6035	-1.27	1.24
40	12.3960	11.7375	11.1004	-1.31	1.27
41	11.8921	11.2459	10.6218	-1.35	1.31
42	11.4113	10.7775	10.1665	-1.39	1.34
43	10.9526	10.3311	9.7330	-1.43	1.38
44	10.5147	9.9056	9.3204	-1.48	1.42
45	10.0967	9.4999	8.9275	-1.52	1.45
46	9.6976	9.1130	8.5532	-1.56	1.49
47	9.3163	8.7439	8.1965	-1.60	1.53
48	8.9521	8.3916	7.8566	-1.64	1.57
49	8.6040	8.0554	7.5327	-1.68	1.60

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Domestic Air Conditioner

<u>Hai</u>er

HSU09/12XHK-SM

Functions and Control

ller		HSU09/12XF	11-211	Functi	ons and Cont
50	8.2713	7.7345	7.2237	-1.73	1.64
51	51 7.9531		6.9291	-1.77	1.68
52 7.6489		7.1353	6.6480	-1.81	1.72
53 7.3580		6.8556	6.3797	-1.85	1.76
54	7.0796	6.5884	6.1237	-1.90	1.79
55	6.8131	6.3329	5.8793	-1.94	1.83
56	6.5581	6.0887	5.6459	-1.99	1.87
57	6.3140	5.8552	5.4230	-2.03	1.91
58	6.0802	5.6318	5.2100	-2.07	1.95
59	5.8563	5.4181	5.0065	-2.12	1.99
60	5.6417	5.2136	4.8120	-2.16	2.03
61	5.4361	5.0178	4.6260	-2.21	2.07
62	5.2391	4.8304	4.4481	-2.25	2.11
63	5.0502	4.6510	4.2780	-2.30	2.15
64	4.8691	4.4791	4.1153	-2.35	2.19
65	4.6954	4.3145	3.9596	-2.39	2.23
66	4.5287	4.1567	3.8105	-2.44	2.27
67	4.3689	4.0055	3.6678	-2.49	2.31
68	4.2154	3.8605	3.5312	-2.53	2.35
69	4.0682	3.7216	3.4004 3.2750	-2.58	2.39
70	3.9268	3.5883		-2.63	2.43
71	3.7910	3.4605 3.1549 3.3378 3.0398		-2.68	2.48
72	3.6606			-2.73	
73	3.5353	3.2201	2.9294	-2.77	2.56 2.60 2.64 2.68
74	3.4150	3.1072	2.8237	-2.82	
75	3.2993	2.9987	2.7222 2.6249	-2.87	
76	3.1881	2.8946		-2.92	
77	3.0812	2.7946	2.5316	-2.97	2.73
78	2.9785	2.6986	2.4420	-3.02	2.77
79	2.8796	2.6063	2.3560	-3.07	2.81
80	2.7845	2.5176	2.2735	-3.12	2.86
81	2.6931	2.4324	2.1943	-3.17	2.90
82	2.6050	2.3505	2.1182	-3.22	2.94
83	2.5203	2.2717	2.0451	-3.28	2.99
84	2.4388	2.1960	1.9749	-3.33	3.03
85	2.3602	2.1231	1.9075	-3.38	3.07
86	2.2846	2.0530	1.8426	-3.43	3.12
87	2.2118	1.9856	1.7803	-3.48	3.16
88	2.1416	1.9207	1.7204	-3.54	3.20
89	2.0740	1.8582	1.6628	-3.59	3.25
90	2.0089	1.7981	1.6074	-3.64	3.29
91	1.9461	1.7402	1.5541	-3.70	3.34
92	1.8856	1.6844	1.5028	-3.75	3.38
93	1.8272	1.6307	1.4535	-3.80	3.43

Haier

Domestic Air Conditioner

aier		HSU09/12XH	K-SM	Functions and Control		
94	1.7709	1.5789	1.4060	-3.86	3.47	
95	1.7166	1.5291	1.3603	-3.91	3.52	
96	1.6643	1.4810	1.3163	-3.97	3.56	
97	1.6138	1.4347	1.2739	-4.02	3.61	
98	1.5650	1.3900	1.2331	-4.08	3.66	
99	1.5180	1.3470	1.1937	-4.13	3.70	
100	1.4726	1.3054	1.1559	-4.19	3.75	
101	1.4287	1.2654	1.1194	-4.24	3.80	
102	1.3864	1.2268	1.0842	-4.30	3.84	
103	1.3455	1.1895	1.0503	-4.36	3.89	
104	1.3060	1.1535	1.0176	-4.42	3.94	
105	1.2679	1.1188	0.9860	-4.47	3.98	
106	1.2310	1.0853	0.9556	-4.53	4.03	
107	1.1954	1.0529	0.9263	-4.59	4.08 4.13	
108	1.1610	1.0217	0.8980	-4.65		
109	1.1277	0.9915	0.8707	-4.70	4.17	
110	1.0955	0.9624	0.8443	-4.76	4.22	
111	1.0644	0.9342	0.8189	-4.82	4.27	
112	1.0344	0.9070	0.7943	-4.88	4.32	
113	1.0053	0.8807	0.7706	-4.94	4.37	
114	0.9771	0.8553	0.7478	-5.00	4.41	
115	0.9499	0.8307	0.7256	-5.06	4.46	
116	0.9235	0.8070	0.7043	-5.12	4.51	
117	0.8980	0.7840	0.6837	-5.18	4.56	
118	0.8734	0.7618	0.6637	-5.24	4.61	
119	0.8495	0.7404	0.6445	-5.30	4.66	
120	0.8263	0.7196	0.6258	-5.36	4.71	

R25℃=10KΩ±3%

B25°C/50°C=3700K±3%

Temp.((℃))	Max.(KΩ)	Normal(KΩ)	Min.(KΩ)	Tolerance(℃)		
-30	165.2170	147.9497	132.3678	-1.94	1.75	
-29	-29 155.5754 139.5600		125.0806	-1.93	1.74	
-28	146.5609	131.7022	118.2434	-1.91	1.73	
-27	138.1285	124.3392	111.8256	-1.89	1.71	
-26	130.2371	117.4366	105.7989	-1.87	1.70	
-25	122.8484	110.9627	100.1367	-1.85	1.69	
-24	115.9272	104.8882	94.8149	-1.83	1.67	
-23	109.4410	99.1858	89.8106	-1.81	1.66	
-22	103.3598	93.8305	85.1031	-1.80	1.64	
-21	97.6556	88.7989	80.6728	-1.78	1.63	
-20	92.3028	84.0695	76.5017	-1.76	1.62	
-19	87.2775	79.6222	72.5729	-1.74	1.60	
-18	82.5577	75.4384	68.8710	-1.72	1.59	
-17	78.1230	71.5010	65.3815	-1.70	1.57	
-16	73.9543	67.7939	62.0907	-1.68	1.55	
-15	70.0342	64.3023	58.9863	-1.66		
-14	66.3463	61.0123	56.0565	-1.64	1.52	
-13	62.8755	57.9110	53.2905 50.6781 48.2099 45.8771 43.6714	-1.62	1.51	
-12	59.6076	54.9866		-1.60 -1.58 -1.56 -1.54	1.49 1.47 1.46 1.44 1.42	
-11	56.5296	52.2278				
-10	53.6294	49.6244				
-9	50.8956	47.1666				
-8	48.3178	44.8454	41.5851	-1.51		
-7	45.8860	42.6525	42.6525	39.6112	-1.49	1.40
-6	43.5912	40.5800	37.7429	-1.47	1.39 1.37 1.35	
-5	41.4249	38.6207	35.9739 34.2983	-1.45		
-4	39.3792	36.7676		-1.43		
-3	37.4465	35.0144	32.7108	-1.41	1.33	
-2	35.6202	33.3552	31.2062	-1.38	1.31	
-1	33.8936	31.7844	29.7796	-1.36	1.29	
0	32.2608	30.2968	28.4267	-1.34	1.28	
1	30.7162	28.8875	27.1431	-1.32	1.26	
2	29.2545	27.5519	25.9250	-1.29	1.24	
3	27.8708	26.2858	24.7686	-1.27	1.22	
4	26.5605	25.0851	23.6704	-1.25	1.20	
5	25.3193	23.9462	22.6273	-1.23	1.18	
6	24.1432	22.8656	21.6361	-1.20	1.16	
7	23.0284 21.8398 20.6939		-1.18	1.14		
8	21.9714	20.8659	19.7982	-1.15	1.12	
9	20.9688	19.9409	18.9463	-1.13	1.09	

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ier	[]	HSU09/12XH			ons and C
10	20.0176	19.0621	18.1358	-1.11	1.07
11	19.1149	18.2270	17.3646	-1.08	1.05
12	18.2580	17.4331	16.6305	-1.06	1.03
13	17.4442	16.6782	15.9315	-1.03	1.01
14	16.6711	15.9601	15.2657	-1.01	0.99
15	15.9366	15.2770	14.6315	-0.98	0.96
16	15.2385	14.6268	14.0271	-0.96	0.94
17	14.5748	14.0079	13.4510	-0.93	0.92
18	13.9436	13.4185	12.9017	-0.91	0.90
19	13.3431	12.8572	12.3778	-0.88	0.87
20	12.7718	12.3223	11.8780	-0.86	0.85
21	12.2280	11.8126	11.4011	-0.83	0.83
22	11.7102	11.3267	10.9459	-0.81	0.80
23	11.2172	10.8634	10.5114	-0.78	0.78
24	10.7475	10.4216	10.0964	-0.75	0.75
25	10.3000	10.0000	9.7000	-0.75	0.75
26	9.8975	9.5974	9.2980	-0.76	0.76
27	9.5129	9.2132	8.9148	-0.80	0.80
28	9.1454	8.8465	8.5496	-0.84	0.83
29	8.7942	8.4964 8.2013		-0.87	0.86
30	8.4583	8.1621	7.8691	-0.91	0.90
31	8.1371	7.8428 7.5522		-0.95	0.93
32	7.8299	7.5377	7.2498	-0.98	0.97
33	7.5359	7.2461	6.9611	-1.02	1.00
34	7.2546	6.9673	6.6854	-1.06	1.04
35	6.9852	6.7008	6.4222	-1.10	1.07
36	6.7273	6.4459	6.1707	-1.13	1.11
37	6.4803	6.2021	5.9304	-1.17	1.14
38	6.2437	5.9687	5.7007	-1.21	1.18
39	6.0170	5.7454	5.4812	-1.25	1.22
40	5.7997	5.5316	5.2712	-1.29	1.25
41	5.5914	5.3269	5.0704	-1.33	1.29
42	5.3916	5.1308	4.8783	-1.37	1.33
43	5.2001	4.9430	4.6944	-1.41	1.36
44	5.0163	4.7630	4.5185	-1.45	1.40
45	4.8400	4.5905	4.3500	-1.49	1.44
46	4.6708	4.4252	4.1887	-1.53	1.47
47	4.5083	4.2666	4.0342	-1.57	1.51
48	4.3524	4.1145	3.8862	-1.61	1.55
49	4.2026	3.9686	3.7443	-1.65	1.59
50	4.0588	3.8287	3.6084	-1.70	1.62
51	3.9206	3.6943	3.4780	-1.74	1.66
52	3.7878	3.5654	3.3531	-1.78	1.70
53	3.6601	3.4416	3.2332	-1.82	<u> </u>

Domestic Air Conditioner

HSU09/12XHK-SM

Functions and Control

laiei		HSU09/12XH	K-SM	Functio	ons and Contro
54	3.5374	3.3227	3.1183	-1.87	1.78
55	55 3.4195 3.2085		3.0079	-1.91	1.82
56	56 3.3060 3.		2.9021	-1.95	1.85
57	3.1969	2.9935	2.8005	-2.00	1.89
58	3.0919	2.8922	2.7029	-2.04	1.93
59	2.9909	2.7948	2.6092	-2.08	1.97
60	2.8936	2.7012	2.5193	-2.13	2.01
61	2.8000	2.6112	2.4328	-2.17	2.05
62	2.7099	2.5246	2.3498	-2.22	2.09
63	2.6232	2.4413	2.2700	-2.26	2.13
64	2.5396	2.3611	2.1932	-2.31	2.17
65	2.4591	2.2840	2.1195	-2.36	2.21
66	2.3815	2.2098	2.0486	-2.40	2.25
67	2.3068	2.1383	1.9803	-2.45	2.29
68	2.2347	2.0695	1.9147	-2.49	2.34
69	2.1652	2.0032	1.8516	-2.54	2.38
70	2.0983	1.9393	1.7908	-2.59	2.42
71	2.0337	1.8778	1.7324	-2.63	2.46
72	1.9714	1.8186	1.6761	-2.68	2.50
73	1.9113	1.7614	1.6219	-2.73	2.54
74	1.8533	1.7064	1.5697	-2.78	2.58
75	1.7974	1.6533	1.5194	-2.83	2.63
76	1.7434	1.6021	1.4710	-2.88	2.67
77	1.6913	1.5528	1.4243	-2.92	2.71
78	1.6409	1.5051	1.3794	-2.97	2.75
79	1.5923	1.4592	1.3360	-3.02	2.80
80	1.5454	1.4149	1.2942	-3.07	2.84
81	1.5000	1.3721	1.2540	-3.12	2.88
82	1.4562	1.3308	1.2151	-3.17	2.93
83	1.4139	1.2910	1.1776	-3.22	2.97
84	1.3730	1.2525	1.1415	-3.27	3.01
85	1.3335	1.2153	1.1066	-3.32	3.06
86	1.2953	1.1794	1.0730	-3.38	3.10
87	1.2583	1.1448	1.0405	-3.43	3.15
88	1.2226	1.1113	1.0092	-3.48	3.19
89	1.1880	1.0789	0.9789	-3.53	3.24
90	1.1546	1.0476	0.9497	-3.58	3.28
91	1.1223	1.0174	0.9215	-3.64	3.33
92	1.0910	0.9882	0.8942	-3.69	3.37
93	1.0607	0.9599	0.8679	-3.74	3.42
94	1.0314	0.9326	0.8424	-3.80	3.46
95	1.0030	0.9061	0.8179	-3.85	3.51
96	0.9756	0.8806	0.7941	-3.90	3.55
97	0.9490	0.8558	0.7711	-3.96	3.60

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HSU09/12XHK-SM

Functions and Control

98	0.9232	0.8319	0.7489	-4.01	3.64
99	0.8983	0.8088	0.7275	-4.07	3.69
100	0.8741	0.7863	0.7067	-4.12	3.74
101	0.8507	0.7646	0.6867	-4.18	3.78
102	0.8281	0.7436	0.6672	-4.23	3.83
103	0.8061	0.7233	0.6484	-4.29	3.88
104	0.7848	0.7036	0.6303	-4.34	3.92
105	0.7641	0.6845	0.6127	-4.40	3.97
106	0.7441	0.6661	0.5957	-4.46	4.02
107	0.7247	0.6482	0.5792	-4.51	4.07
108	0.7059	0.6308	0.5632	-4.57	4.12
109	0.6877	0.6140	0.5478	-4.63	4.16
110	0.6700	0.5977	0.5328	-4.69	4.21
111	0.6528	0.5820	0.5183	-4.74	4.26
112	0.6361	0.5667	0.5043	-4.80	4.31
113	0.6200	0.5518	0.4907	-4.86	4.36
114	0.6043	0.5374	0.4775	-4.92	4.41
115	0.5891	0.5235	0.4648	-4.98	4.45
116	0.5743	0.5100	0.4524	-5.04	4.50
117	0.5600	0.4968	0.4404	-5.10	4.55
118	0.5460	0.4841	0.4288	-5.16	4.60
119	0.5325	0.4717	0.4175	-5.22	4.65
120	0.5194	0.4597	0.4066	-5.28	4.70

6. System Configuration

6.1 System Configuration

After the installation and test operation of the room air conditioner have been completed, it should be operated and handled as described below. Every user would like to know the correct method of operation of the room air conditioner, to check if it is capable of cooling (or heating) well, and to know a clever method of using it. In order to meet this expectation of the users, giving sufficient explanations taking enough time can be said to reduce about 80% of the requests for servicing. However good the installation work is and however good the functions are, the customer may blame either the room air conditioner or its installation work because of improper handling. The installation work and handing over of the unit can only be considered to have been completed when its handling has been explained to the user without using technical terms but giving full knowledge of the equipment.

6.2 Instruction

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(5) 9

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14)

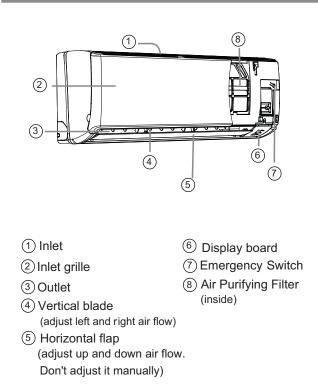
15

16

17

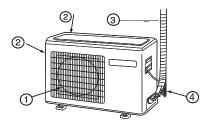
Parts and Functions

Indoor Unit



Please be subject to the actual produce purchased the above picture is just from your reference

Outdoor Unit



(1) OUTLET

(3) CONNECTING PIPING AND ELECTRICAL WIRING

(4) DRAIN HOSE 2 INLET

Please be subject to the actual produce purchased the above picture is just from your reference

Remote controller

1)-		8.Additional functions display
2)-	Haler	Operation mode QUITE SLEEP Supplemented electrical heating HEALTH POWER Remote controller 32 33
		Remote controller 😒 🔯 🕪 👌 🛹
3 -		10. HEAT button
4) -	34CW66-3	11. COOL button
5) —	8	12. AUTO button
9)-		13. FAN button 14. TIMER button
10 —		15. HEALTH button
-		16. LOCK button
1)-	COOL HEAT DRY 19	Used to lock buttons and LCD display.
		17. LIGHT button Control the lightening and extinguishing
12 —		of the indoor LED display board.
13 —		18. POWER ON/OFF button
	22	19. DRY button 20. TEMP button
14) -		20. TEMP buildin 21. SWING button
- 15 —		22. HOUR button
		23. EXTRA FUNCTION button
<u>6</u> –	LOCK LIGHT RESET	Function: Air sending+Healthy
17 -		airflow position1+ Healthy airflow position 2+ Restore the original
1. N	lode display	flap position Right & left air airflow
	ation mode AUTO COOL DRY HEAT FAN	+A-B yard+10 and heating symbol displayed simultaneously+ Sleeping
	ote controller 🕥 🏶 🙆 🔅 🗶	Electrical heating Refresh air
	ignal sending display WING display	(reserved function) Power
	AN SPEED display	Fahrenheit/Celsius mode conversion
	Display	24.CANCEL/CONFIRM button Function: Setting and cancel to the
LO	→ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ↓ → ▲ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	timer and other additional functions.
	OCK display	25. RESET button
	IMER OFF display	When the remote controller appears abnormal, use a sharp
	IMER ON display	pointed article to press this button
7.TE	EMP display	to reset the remote

Healthy function is not available for some units.

Loading of the battery

- Remove the battery cover;
- 2 Load the batteries as illustrated. 2 AAA batteries, resetting key (cylinder);
- 3 Be sure battery polarity is correct " + "/"-";

Load the battery, then put on the cover again. 4

Note:

- The distance from the remote to the receiver should be less than 23 feet (7 meters) with no obstructions.
- Fluorescent lights or cordless telephones will reduce the range of the remote.
- If the display is dim the remote batteries may need to be replaced.
- Remote malfunctions can sometimes be corrected by removing the batteries for a few minutes and then replacing them.

Hint:

Remove the batteries in case won't be in use for a long period. If there is any display after taking-out, just press reset key.

Operation

Base Operation

Remote controller



1. Unit start

Press ON/OFF on the remote controller, unit starts.

2. Select operation mode COOL button:Cooling mode HEAT button: Heating mode DRY button: Dehumidify mode

3.Select temp.setting

Press TEMP+ / TEMP- button

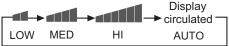
- TEMP+ Every time the button is pressed, temp.setting increase 1°C,if kept depressed, it will increase rapidly
- TEMP- Every time the button is pressed, temp.setting decrease 1°C,if kept depressed, it will decrease rapidly

Select a desired temperature.

4.Fan speed selection

Press FAN button. For each press, fan speed changes as follows:

Remote controller:



Air conditioner is running under displayed fan speed. When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.

Operation Mode	Remote Controller	Note
AUTO	\$	Under the mode of auto operation, air conditioner will automatically select Cool or Heat operation according to room temperature. When FAN is set to AUTO the air conditioner automatically adjusts the fan speed according to room temperature.
COOL	*	
DRY	٥	In DRY mode, when room temperature becomes lower than temp.setting+2°C, unit will run intermittently at LOW speed regardless of FAN setting.
HEAT	ţĊ;	In HEAT mode, warm air will blow out after a short period of the time due to cold-draft prevention function. When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.
FAN 🔀		In FAN operation mode, the unit will not operate in COOL or HEAT mode but only in FAN mode, AUTO is not available in FAN mode. And temp. setting is disabled. In FAN mode, sleep operation is not available.

Emergency operation and test operation

Emergency Operation:

- Use this operation only when the remote controller is defective or lost, and with function of emergency running, air conditoner can run automatically for a while.
- When the emergency operation switch is pressed, the unit beeps once, which means the start of this operation.
- When power switch is turning on for the first time and emergency operation starts, the unit will run automatically in the following modes:

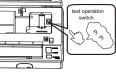
Room temperature	Designated temperature	Timer mode	Fan speed	Operation mode	emergency operation switch
Above 23°C	26°C	No	AUTO	COOL	
Below 23°C	23°C	No	AUTO	HEAT	

• It is impossible to change the settings of temp. and fan speed, It is also not possible to operate in timer or dry mode.

Test operation:

Test operation switch is the same as emergency switch.

- Use this switch in the test operation when the room temperature is below 16°C, do not use it in the normal operation.
- Continue to press the test operation switch for more than 5 seconds.After you hear two beeps, release your finger from the switch: the cooling operation starts with the air flow speed "Hi".



 Under this operation mode, the fan motor of indoor unit will run in high speed.

Air Flow Direction Adjustment

1.Status display of air flow

COOL/DRY:



2.Left and right air flow adjustment(manual) Move the vertical blade by a knob on air conditioner to adjust left and right direction referring to the figure below.



Cautions:

- When adjusting the flap by hand, turn off the unit.
- When humidity is high, condensate water might occur at air outlet if all vertical louvers are adjusted to left or right.
- It is advisable not to keep horizontal flap at downward position for a long time in COOLor DRY mode, otherwise, condensate water might occur. Note:

When restart after remote turning off, the remote controller will automatically return to the previous set swing position.

Operation

Sleep Operation

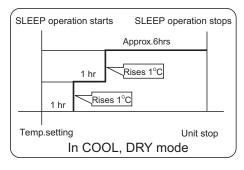
Press (when to enter additional options, when cycle display to (will flash. And then press (enter to sleep function.



Operation Mode

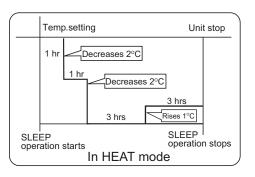
1. In COOL,DRY mode

1 hours after SLEEP mode starts,temp.will become 1°C higher than temp.setting.After another 1 hours,temp.rises by 1°C futher.The unit will run for further 6 hours then stops Temp. is higher than temp.setting so that room temperature won't be too low for your sleep.



2. In HEAT mode

1 hours after SLEEP mode starts,temp will become 2°C lower than temp.setting.After another 1 hours,temp decrease by 2°C futher.After more another 3 hours,temp. rises by 1°C futher.The unit will run for further 3 hours then stops.Temp.is lower than temp. setting so that room temperature won't be too high for your sleep.



3. In AUTO mode

The unit operaters in corresponding sleep mode adapted to the automatically selected operation mode.

- 4. In FAN mode It has no SLEEP function.
- 5.Set the wind speed change when sleeping If the wind speed is high or middle before setting for the sleep, set for lowing the wind speed after sleeping. If it is low wind, no change.

Note

When TIMER function is set, the sleeping function can't be set up .After the sleeping function is set up, if user resets TIMER function, the sleeping function will be cancelled; the machine will be in the state of timing-on.

POWER/QUIET Operation

(1) POWER Operation

When you need rapid heating or cooling, you can use this function. Press with button to enter additional options, when cycle display to , , , will flash, and then press with , enter to power function. When cancel the function, please enter additional options again and to cancel power function.

(2) QUIET Operation

You can use this function when silence is needed for rest or reading. Press QUIET button, the remote controller will show $\neg \underline{\mathbb{M}}$, and then achieve to the quiet function. Press again this QUIET button, the quiet function will be cancelled.

Note :

During POWER operation, in rapid HEAT or COOL mode, the room will show inhomogeneous temperature distribution. Long period QUIET operation will cause effect of not too cool or not too warm.

Operation

Timer On/Off On-Off Operation

1.After unit starts, select your desired operation mode.

2.Press TIMER button to change TIMER mode. Every time the button is pressed, display changes as follows:

Remote controller:

→ ON →	► OFF →	ON ◀- OFF →	► OFF ◀— ON —	► BLANK
0.5h	0.5h	0.5h	0.5h	
TIMER ON	TIMER OFF	TIMER ON-OFF	TIMER OFF-ON	

Then select your desired TIMER mode (TIMER ON or TIMER OFF or TIMER ON-OFF). " ON "or " OFF "will flash.



- Press the button for each time, setting time in the first 12 hours increased by 0.5 hour every time, after 12 hours,increased by 1 hour every time.
- Press the button for each time, settiing time in the first 12 hours decreased by 0.5 hour every time, after 12 hours,decreased by 1 hour every time. It can be adjusted within 24 hours.

4.Confirm timer setting

After adjust the time, press with button and confirm the time ON or OFF button will not flash any more.

5.Cancel timer setting

Press the timer button by times until the time display eliminated.

Hints:

After replacing batteries or a power failure happens, time setting should be reset.

According to the Time setting sequence of TIMER ON or TIMER OFF, either Start-Stop or Stop-Start can be achieved.

Healthy airflow Operation

1.Press (1) to starting

Setting the comfort work conditions.

2. The setting of healthy airflow function

Press button to enter additional options,Press this button continuously, the louvers location will cycle between in the following three locations, to choose the swing location what you needed,and then press button to confirm.



3. The cancel of the healthy airflow function

Press EXTRA INCLOSE button to enter additional options, Press this button continuously, the louvers location will cycle between in the following three locations again, and then press CANCEL button to cancel.

Notice: Do not direct the flap by hand. Otherwise, the grille will run incorrectly. If the grille is not run correctly, stop for a minute and then start, adjusting by remote controller.

Note:

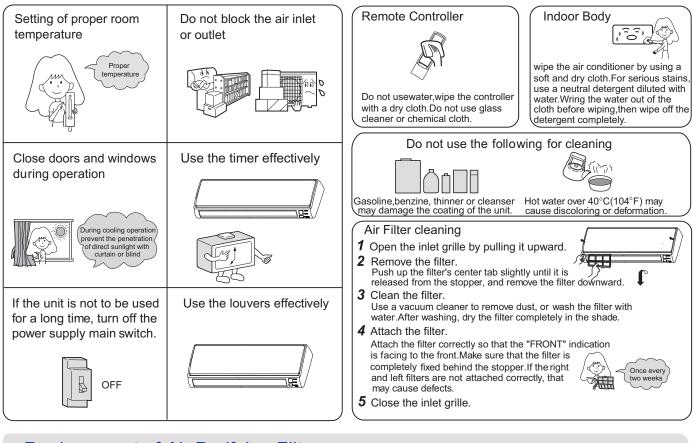
1.After setting the healthy airflow function, the position grill is fixed.

2.In cooling, it is better to select the T mode.

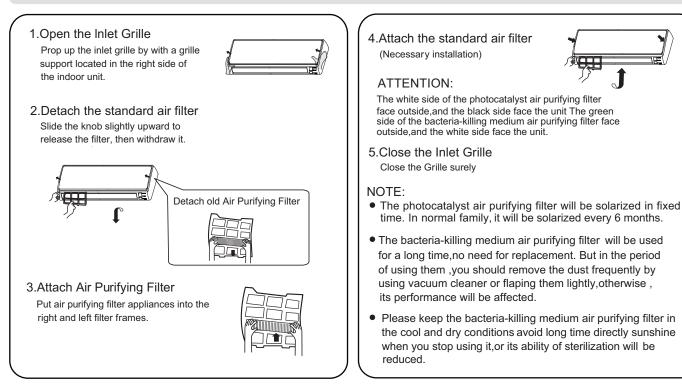
3.In cooling and dry, using the air conditioner for a long time under the high air humidity, condensate water may occur at the grille .

Maintenance

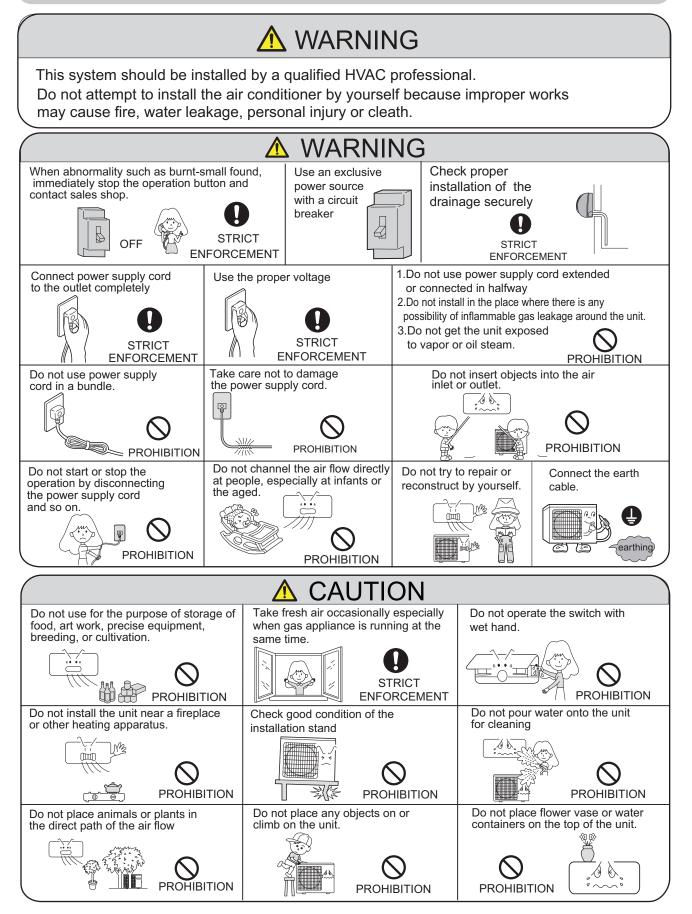
For Smart Use of The Air Conditioner



Replacement of Air Purifying Filter



Cautions



Trouble shooting

Before asking for service, check the following first.

	Phenomenon	Cause or check points
Normal Performance inspection	The system does not restart immediately.	 When unit is stopped, it won't restart immediately until 3 minutes have elapsed 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.
	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, paint, 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.
	In dry mode,fan speed can't be changed.	 In DRY mode, when room temperature becomes lower than temp. setting+2 °C,unit will run intermittently at LOW speed regardless of FAN setting.
	Z Z Z	 Is power plug inserted? Is there a power failure? Is fuse blownout?
Multiple check	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
	, TEN,	through the window during the cooling operation?(Use curtain) • Are there too much heat sources or too many people in the room during cooling operation?

Cautions

- Do not obstruct or cover the ventilation grille of the air conditoner.Do not put fingers or any other things into the inlet/outlet and swing louver.
- Do not allow children to play with the air conditioner.In no case should children be allowed to sit on the outdoor unit. Specifications
- The refrigerating circuit is a sealed system.

The machine is adaptive in following situation

1.Applicable ambient temperature range:

	Indoor	Maximum:D.B/W.B	89.6°F/73.4°F
		Minimum:D.B/W.B	67 °F/57 °F
Cooling	Outdoor	Maximum:D.B/W.B	115°F/75°F
		Minimum: D.B	67 °F/57 °F
	Indoor	Maximum:D.B	80.6°F
Heating	Indoor	Minimum: D.B 32°F	32°F
	Outdoor	Maximum:D.B/W.B	75°F/65°F
	Outdoor	Minimum:D.B/W.B	19.4°F
Outdoor		Maximum:D.B/W.B	75°F/65°F
	(INVERTER)	Minimum:D.B	5°F

- If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.
- 3.If the fuse of indoor unit on PC board is broken, please change it with the type of T. 3.15A/ 250V. If the fuse of outdoor unit is broken, change it with the type of T.25A/250V
- 4. The wiring method should be in line with the local wiring standard.
- 5. After installation, the power plug should be easily reached.
- 6. The waste battery should be disposed properly.
- 7. The appliance is not intended for use by young children or infirm persons without supervision.
- 8. Young children should be supervised to ensure that they do not play with the appliance.
- 9. Please employ the proper power plug, which fit into the power supply cord.
- 10. The power plug and connecting cable must have acquired the local attestation.
- 11.In order to protect the units,please turn off the A/C first, and at least 30 seconds later, cutting off the power.



7.Codes and Description

7.1. Problem Symptoms and Measures

Symptom	Check Item	Details of Measure	
None of the units	Check the power supply	Check to make sure that the rated voltage is supplied.	
operates	Check the indoor PCB	Check to make sure that the indoor PCB	
		is broken	
Equipment operates but does not cool, or does not heat (only for heat pump)	Diagnosis by service port pressure and operating current.	Check for insufficient gas.	
Large operating noise and vibrations	Check the installation condition.	Check to make sure that the required spaces for installation (specified in the Technical Guide, etc.) are provided.	

7.2 Error Codes and Description indoor display

	Code indication	Description	Reference
	indoor	Page	Page
	E1	Room temperature sensor failure	32
Indoor	E2	Heat-exchange sensor failure	32
Malfunction	E4	Indoor EEPROM error	33
	E14	Indoor fan motor malfunction	33

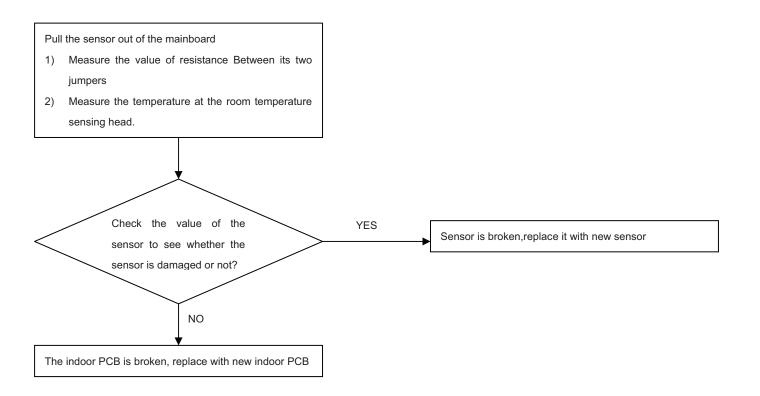
The code indication that is listed above is the main fault

Troubleshooting

Caution

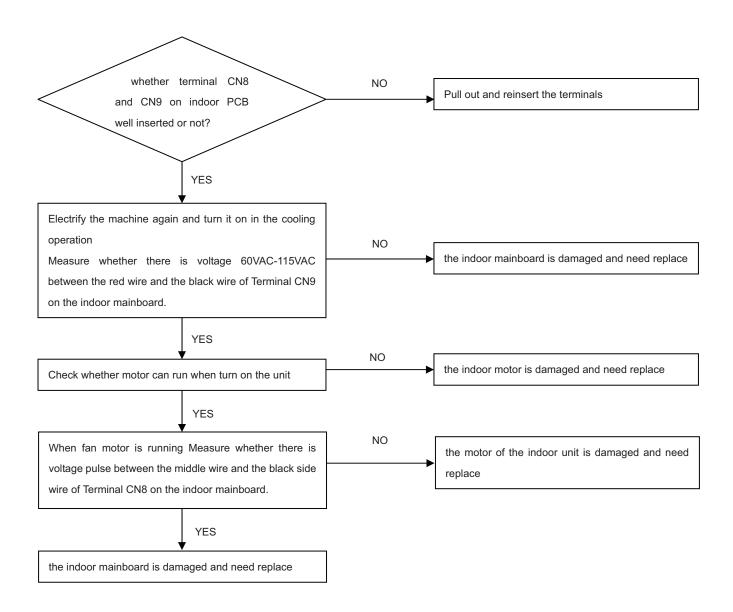
Be sure to turn off power switch before connect or disconnect connector, or else parts damage may be occurred.

E1: Room temperature sensor failure	CN6
E2: Heat-exchange sensor failure	CN6

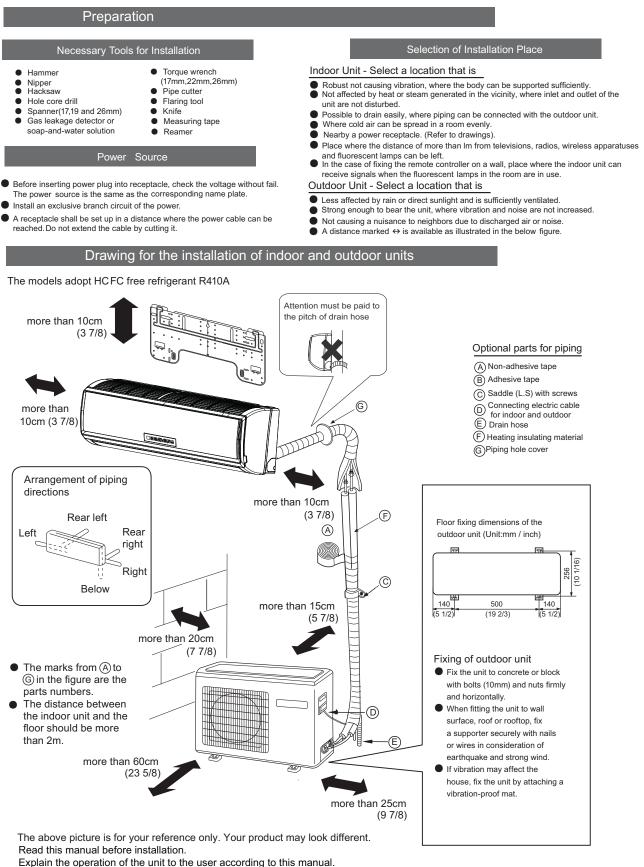


E4: Indoor EEPROM error:: Replace the PCB of indoor unit E14 :Indoor fan motor malfunction

Notes: When the unit is on ,don't pull out or insert the terminal of the motor (CN9), or else The motor would be damaged.



8 Installation Manual of Room Air Conditioner



NO.0010536242

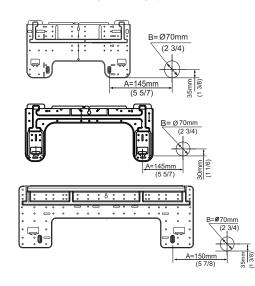
Accessory parts				
Remote controller (1)		Drain hose (1)		
AAA dry battery (2)		Cushion (4)		
Mounting plate (1)		Drain-elbow (1)		
Plastic cap (4) □→→→→ Ø4X25 Screw (4)		Pipe supporting plate (1)		
Selection of pipe				
	Liquid pipe (Ø)	6.35mm(1/4")		
	Gas pipe (Ø)	9.52mm(3/8")		

Indoor unit

Fitting of the Mounting Plate and Positioning of the wall Hole

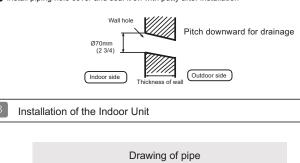
When the mounting plate is first fixed

- Carry out, based on the wall studs or lintels, a proper leveling for the plate to be fixed against the wall, then temporarily fasten the plate with one steel nail.
- 2. Make sure once more the proper level of the plate, by hanging a thread with a weight from the central top of the plate, then fasten the plate.
- 3. Find the wall hole location A using a measuring tape



2 Making a Hole on the Wall and Fitting the Piping Hole Cover

- Make a hole of 70 mm (2 3/4) in diameter, slightly descending to outside the wall.
- Install piping hole cover and seal it off with putty after installation



[Rear piping]

• Draw pipes and the drain hose, then fasten them with the adhesive tape

[Left · Left-rear piping]

- In case of left side piping, cut away, with a nipper, the lid for left piping.
 In case of left-rear piping, bend the pipes according to the piping direction to
- the mark of hole for left-rear piping which is marked on heat insulation materials. 1. Insert the drain hose into the carity of heat insulation materials of indoor unit.
- Insert the indoor/outdoor electric cable from backside of indoor unit, and pull it out on the front side, then connect them.
- Coat the flaring seal face with refrigerant oil and connect pipes.
- Cover the connection part with heat insulation materials, cover with adhesive tape.



 Indoor/outdoor electric cable and drain hose must be bound with refrigerant piping with protecting tape.

[Other piping direction]

- Cut away, with a nipper, the lid for piping according to the piping direction and then bend the pipe according to the position of wall hole. When bending, be careful not to crush pipes.
- Connect beforehand the indoor/outdoor electric cable, and then pull out the connected to the heat insulation of connecting part specially.

Fixing the indoor unit body

Hang the unit body securely onto the upper notches of the mounting plate. Move the body from side to side to verify its secure fixing.



In order to fix the body onto the mounting plate, hold up the body at a slant from the underside and then put it down perpendicularly.

mounting plate

mounting plate

Unloading of indoor unit body

• When you unload the indoor unit, please use your hand to raise the body, then lift the bottom of the body outward slightly and lift the unit until it leaves the mounting plate.

Connecting the indoor/outdoor Electric Cable

Removing the wiring cover

Remove terminal cover at right bottom corner of indoor unit, then take off wiring cover by removing its screws.



When connecting the cable after installing the indoor unit

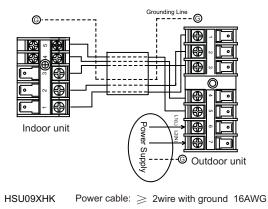
- 1. Insert from outside the room cable into left side of the wall
- hole, in which the pipe has already existed.
- -**M**----)
- 2. Pull out the cable on the front side, and connect the cable making a loop.

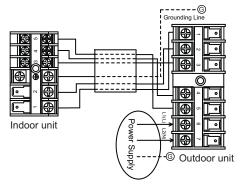
When connecting the cable before installing the indoor unit

- Insert the cord from the back side of the unit, then pull it out on the front side.
- Fasten the unit wire harness to the conduit holder using the lock nut.Position the conduit holder to its original state using screw.
- Lock nut Conduit holder Cut the 6 slit sear

When connecting the cable, confirm the terminal number of indoor and outdoor units carefully. If wiring is not correct, improper operation may occur and cause damage to the units.

Domestic Air Conditioner





HSU12XHK Power cable: \geq 2wire with ground 16AWG

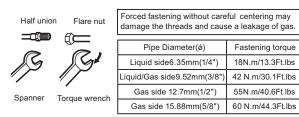
1. If the fuse on PC board is broken please change it with the type of T. 3.15A/250V(indoor unit), 25A/250V(outdoor unit).

- 2. The wiring method should be in line with the local wiring standard. 3. After installation, the power plug should be easily reached.
- 4. A breaker should be incorporated into fixed wiring. The breaker should be
- all-pole switch.

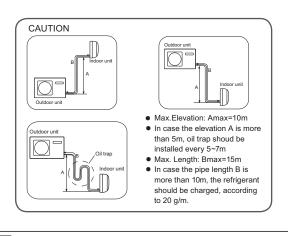
Outdoor unit				
1 Installatio	n of Outdoor Unit			
Install according to	Drawing for the installation of indoor and outdoor units			

Connection of pipes

- To bend a pipe, be careful not to crush the pipe,
- and the bending radius should be 30 (1 1/6) to 40 mm (1 4/7) or longer. Connecting the pipe of gas side first makes working easier.
- The connection pipe is specialized for R410A.

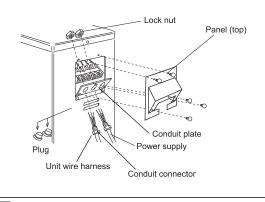


Ensure that no dirt or debris enters the pipe. The standard pipe length is 7m (27 9/16), the function of the unit will be affected. If the pipe has to be lengthened, the refrigerant should be charged, according to 20 g/m (0.018 oz/inch). But the charge of refrigerant must be conducted by professional air conditioner servicer. Before adding additional refrigerant, perform air purging from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.



Connection

- . Take off the panel(top), by removing the 5 screws.
- Remove the plugs on the conduit plate.
- Temporarily mount the conduit tubes on the conduit plate.
- Connect both the power supply and unit wire harness to the corresponding terminals on the terminal board.
- Ground the unit in accordance with local codes.
- Allow several extra inches of wire for making wiring connections.
- Use lock nuts to secure conduit tubes.



Attaching Drain-Elbow

If the drain-elbow is used. ٠ please attach it as figure. (Note Only for heat pump unit.)

Purging Method: To use vacuum pump

- 1. Remove the service port cap of the 3-way valve and the valve stem cap for both valves. Connect the low pressure hose from the manifold set to the 3-way valve. Connect the center hose to the vacuum pump.
- 2. Open the handle on low side of manifold and operate vacuum pump. If the low side gauge reaches a vacuum immediately, ensure the hoses are connected properly and the low side manifold handle is open.
- 3. Vacuum for a minimum of 15 minutes and check the gauge for a proper vacuum. After the completion of vacuuming, close the handle 'Lo' in gaugemanifold and stop the operation of the vacuum pump. Leave the hoses connected and check the vacuum level again in 1-2 minutes. If you lose the vacuum, ensure all connections are tight and flare the tubes again if needed.
- 4. Open the valve rod stem the 2-way valve counterclockwise to 90 degrees. After 6 seconds, close the 2-way valve and inspect for gas leakage.

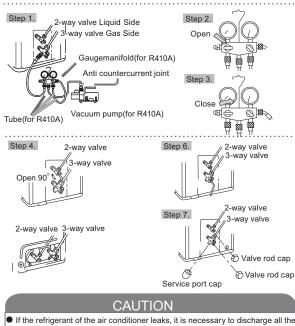


- In case of gas leakage, tighten parts of pipe connection. If leakage stops,
- then proceed step 6. If leak continues, remove the refrigerant used for the
- leakage check and flare tubes again. Repeat vacuum and leak and if no
- leakage, proceed to step 6.

6. Detach the charge hose from the service port, open 2-way valve and 3-way. Turn

the valve stem counterclockwise.

7-To prevent the gas leakage, replace the service port and valve stem caps securely. $\mathbf{8}.$ After attaching each cap, check for gas leakage around the caps.



refrigerant. Vacuum first, then charge the liquid refrigerant into air conditioner according to the amount marked on the name plate. Please do not let other cooling medium, except specified one (R410A), or air

enter into the cooling circulation system. Otherwise, there will be abnormal high pressure in the system casuing damage and possibly personal injuries.

Power Source Installation

Flare tool for R410A

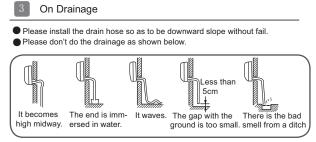
- The power source must be exclusively used for air conditioner. (Over IOA) In the case of installing an air conditioner in a moist place, please install an ea
- rth leakage breaker (GFCI).
- For installation in other places, use a circuit breaker as far as possible

2 Cutting and Flaring Work of Piping

Pipe cutting is carried out with a pipe cutter and burs must be removed. After inserting the flare nut, flaring work is carried out.

Conventional flare tool

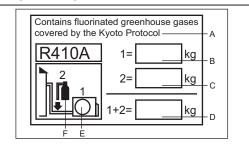
		Clutch	n-type	clutch-type(Rigid-type)	Wing-nut t	ype (Imperial-typ	e)
	А	0~0.5 0~1/51		1.0~1.5 3/76~1/*			5~2.0mm 7~1/8 inch	
Flare tooling die		1.Cut		2.Remove burs				
				3.Insert th	e flare nut	4.F	lare pipe	
						R		>
	(Correct			Incorrect			
			Lean [Damage of fla	re Crack	Partial	Too outside	



Please pour water in the drain pan of the indoor unit, and confirm that drainage is carried out surely to outdoor. In case that the attached drain hose is in a room, please apply heat insulation to

it without fail.

Refrigerant charge label



This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent into the atmosphere. Refrigerant type:R410A GWP* value:1975

GWP=global warming potential Please fill in with indelible ink,

- the factory refrigerant charge of the product • 1
- 2 the additional refrigerant ar
 1+2 the total refrigerant charge the additional refrigerant amount charged in the field and

on the refrigerant charge label supplied with the product. The filled out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover) A contains fluorinated greenhouse gases covered by the Kyoto Protocol

- B factory refrigerant charge of the product: see unit name plate
- additional refrigerant amount charged in the field С D
- total refrigerant charge outdoor unit
- EF refrigerant cylinder and manifold for charging

Check for Installation and Test Run

Please kindly explain to our customers how to operate through the instruction manual.

Check Items for Test Run

$\hfill\square$ Put check mark \checkmark in boxes

- Gas leak from connecting pipe?
- Heat insulation of connecting pipe?
- Are the connecting wirings of indoor and outdoor firmly
- inserted to the terminal block? Is the connecting wiring of indoor and outdoor firmly fixed?
- Is drainage securely carried out?
- Is the ground wire securely connected?
 Is the indoor unit securely fixed?
- Is power source voltage abided by the code?
- Is there any noise? Is the lamp normally lighting?
- Are cooling and heating (when in heat pump) performed normally? Is the operation of room temperature regulator normal?

9. Removal Procedure

9.1 Indoor unit

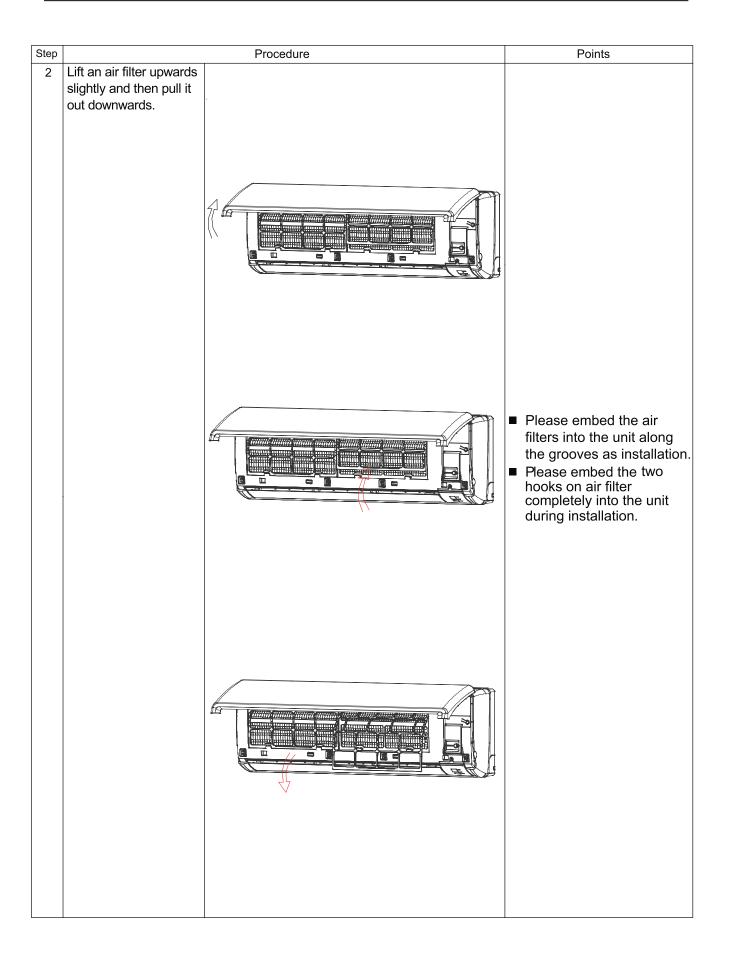
9.1.1 Removal of Air Filter

Procedure

Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Procedure Points

Step		Procedure	Points
<u>1.</u> F	eatures		
2. F	Remove the air filters. Hold the front panel by the tabs on the both sides and lift it until it stops with a click.		

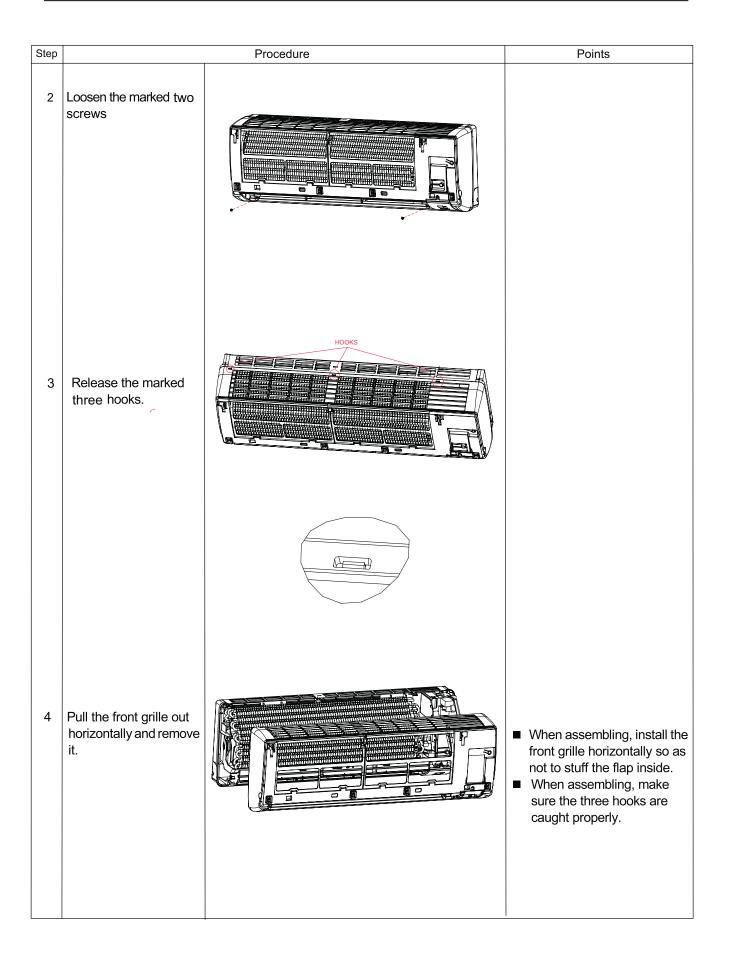


9.1.2 Removal of Front Panel

Procedure

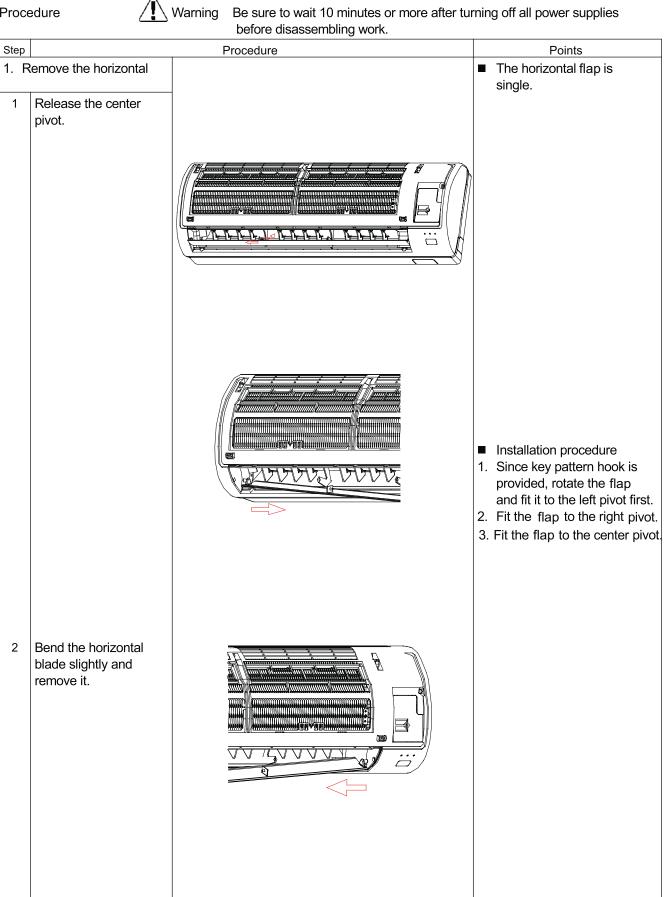
Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step		Procedure	Points
	Open the front panel. Open the front panel until it is on the horizontal position, and then release the pivots on both sides of the unit to remove the front panel.	<image/>	 Points Please close the panels before start the removal procedure of front grille. Slide the front panel from
			 Side the nont panel nonn one side to another to release each axis. When assembling, align the right and left axes with grooves in turn and insert them to the end.

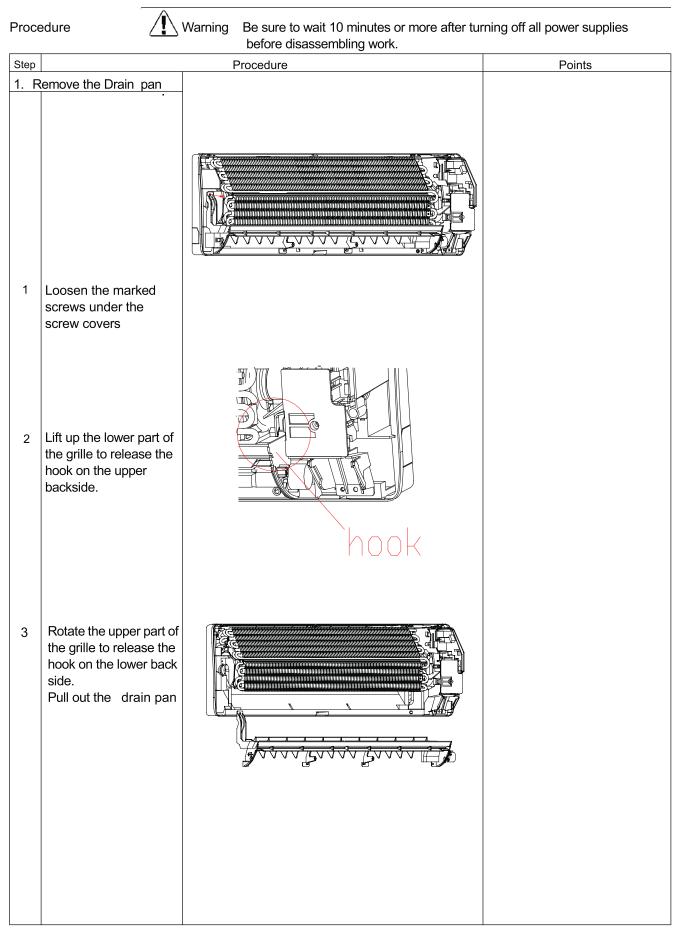


9.1.3 Removal of horizontal flap

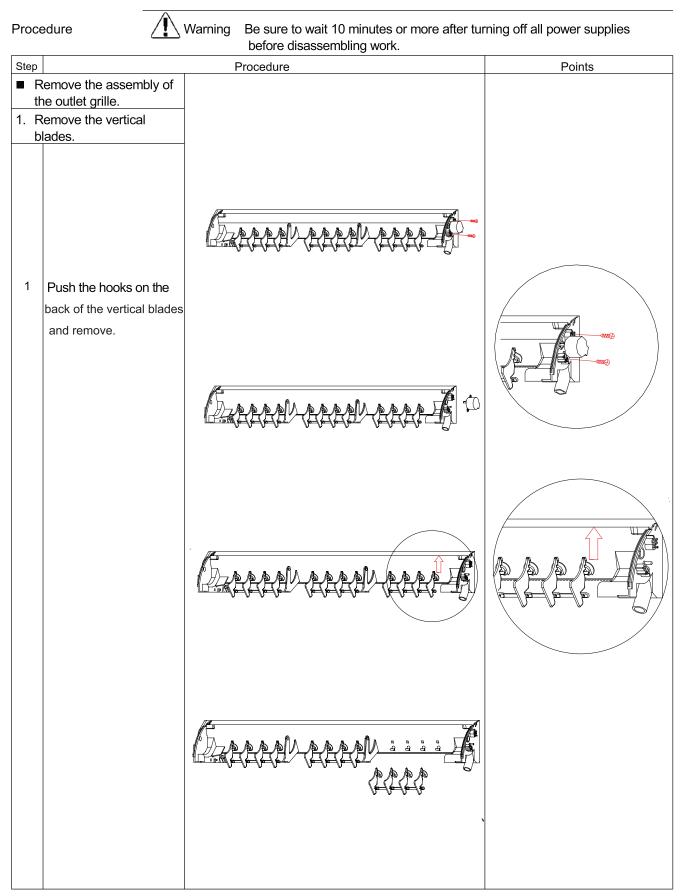
Procedure



9.1.4 Removal of Drain pan



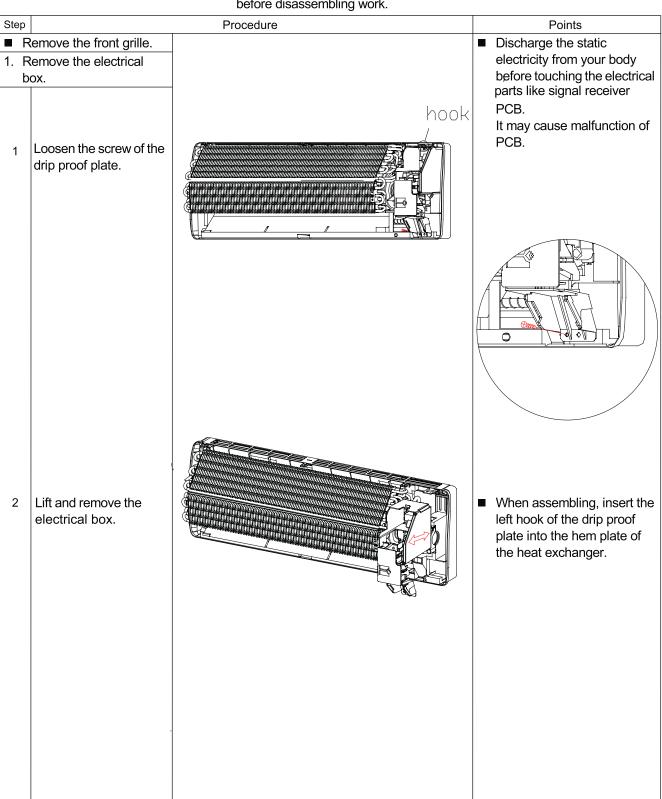
9.1.5 Removal of Vertical Blades and Swing Motor



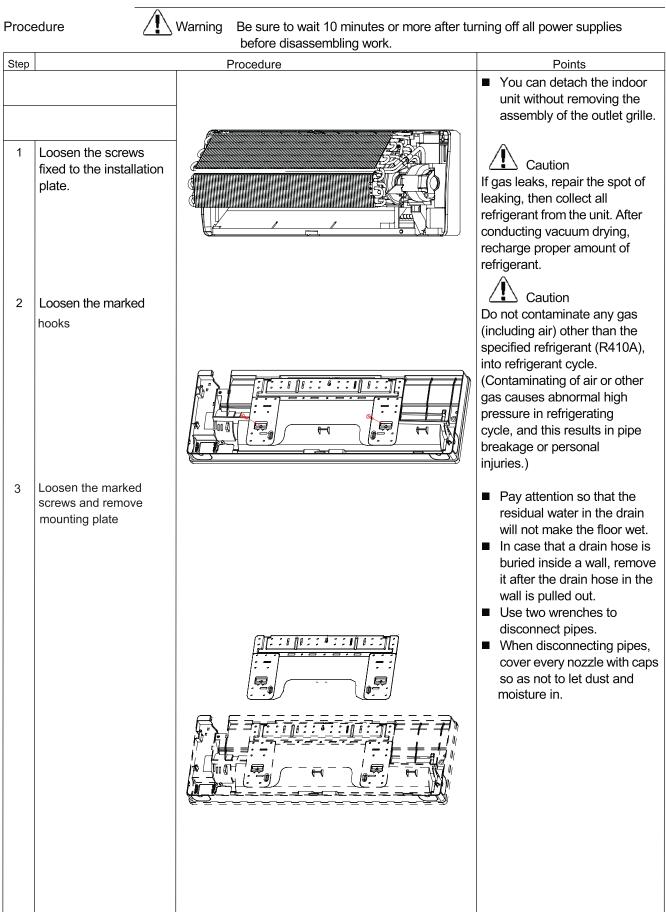
9.1.6 Removal of Electrical Box

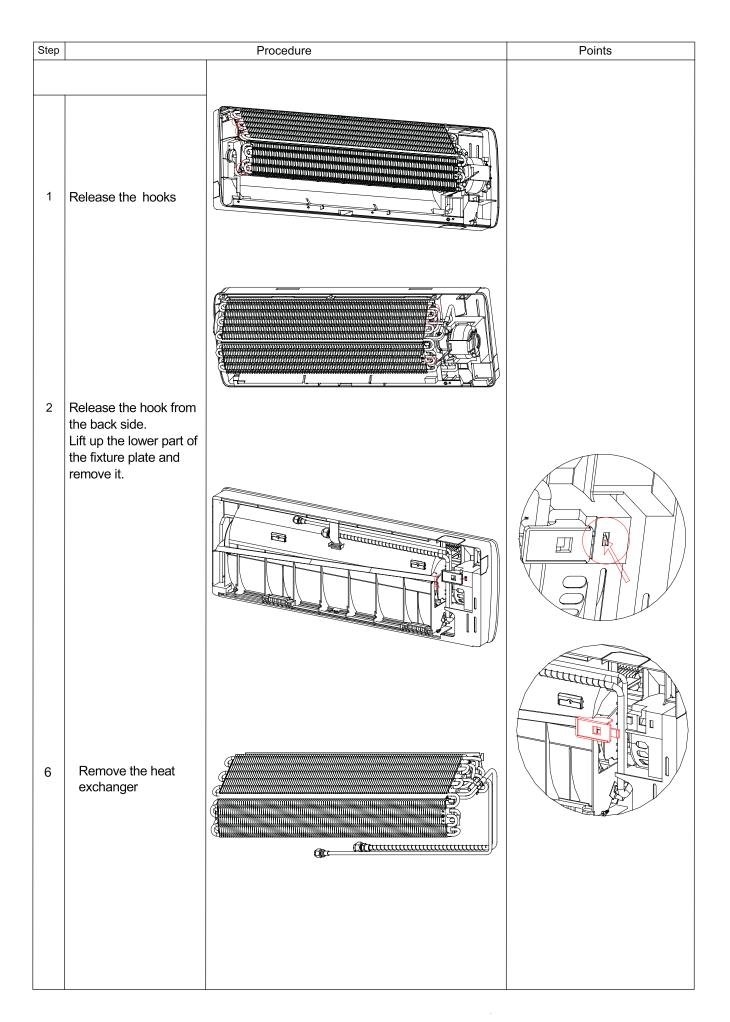


Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.



9.1.7Removal of Heat Exchanger





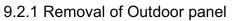
9.1.8 Removal of Fan Rotor and Fan Motor

edure	Narning Be sure to wait 10 minutes or more after to before disassembling work.	urning off all power supplies
	Procedure	Points
ate.		
Loosen the 2 screws.		
Remove the fixing plate.		
	edure	before disassembling work. Procedure emove the right side ate. Loosen the 2 screws.

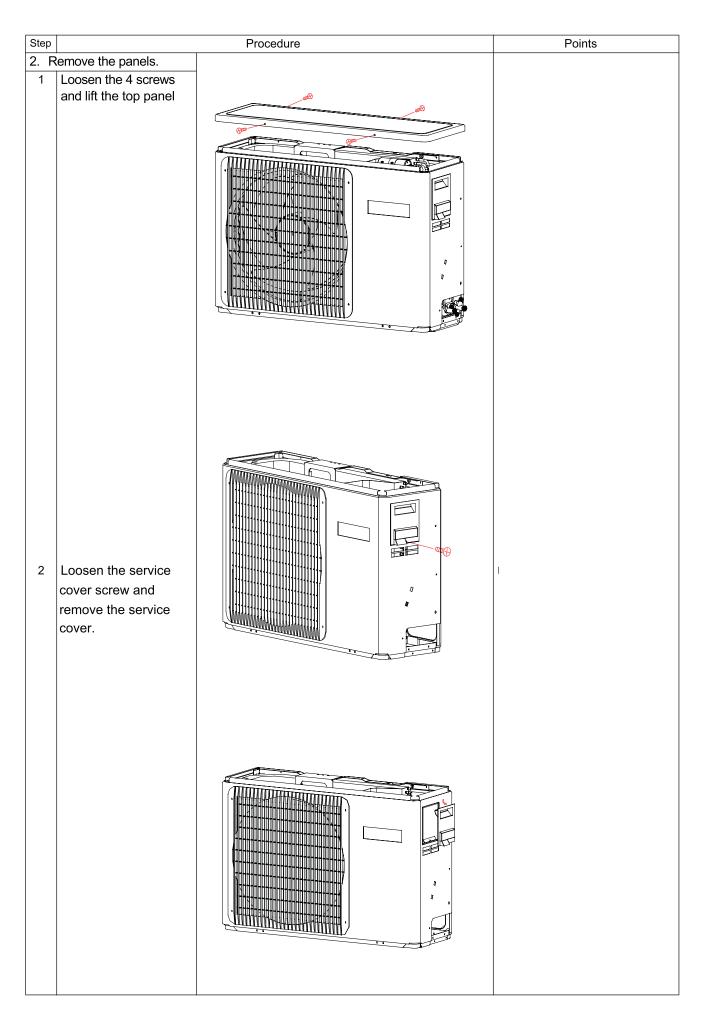
Step		Procedure	Points
	emove the fan.		
1	Loosen the marked screw.		
2	Lift up the right part of the fan motor and slide it to the rightward to remove.		
3	Lift up the right part of the fan and remove it		

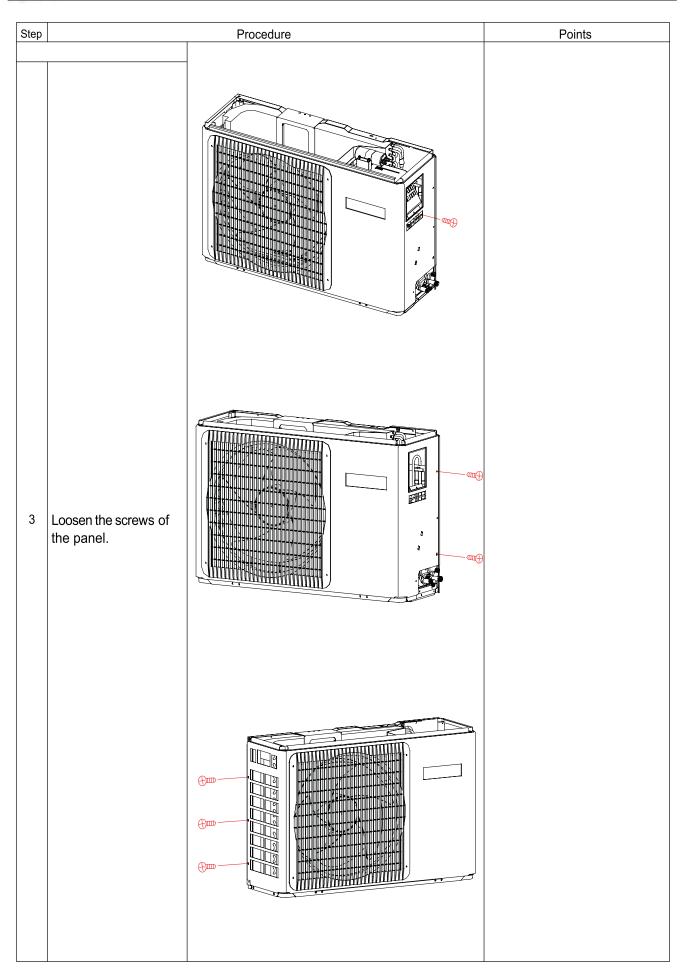
Outdoor unit

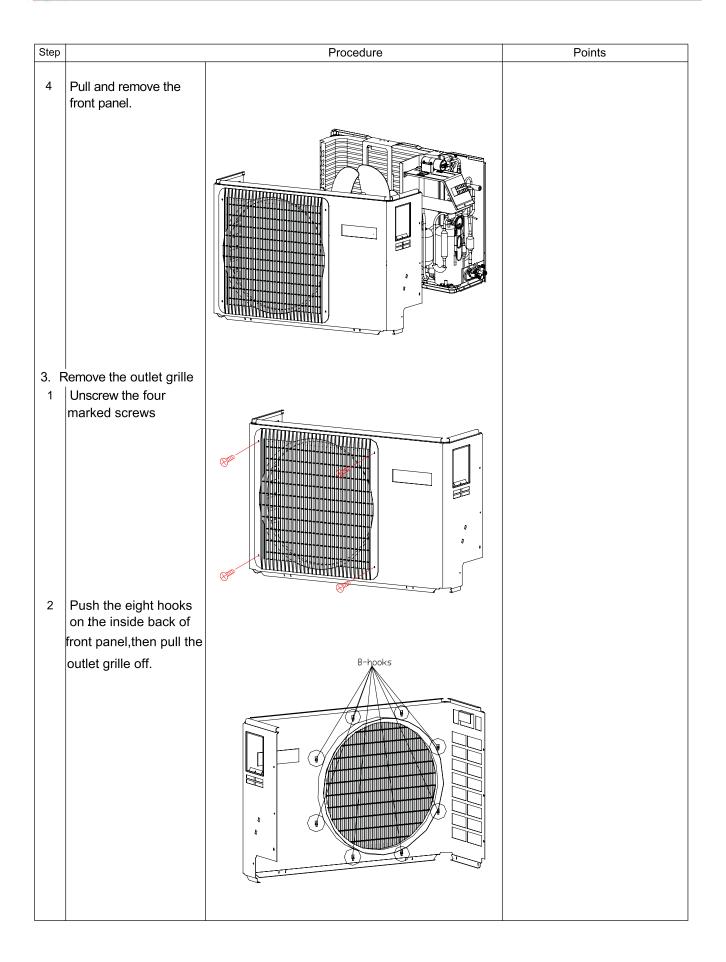
9.2 Outdoor unit



Warning Procedure Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work. Step Procedure Points 1. Features handle Be careful not to cut your finger by the fins of the heat exchanger. 1 Loosen the screw of the stop valve cover. Pull down the stop valve cover and remove it. The stop valve cover is united with the shelter. ■ When assembling, make sure to fit the 5 hooks.



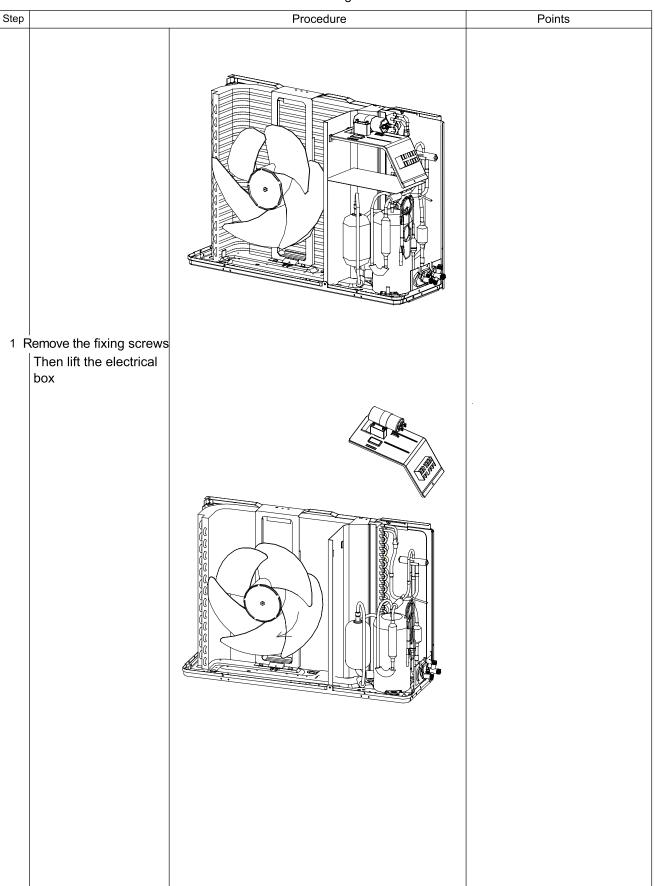




9.2.2 Removal of Electrical Box



Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.



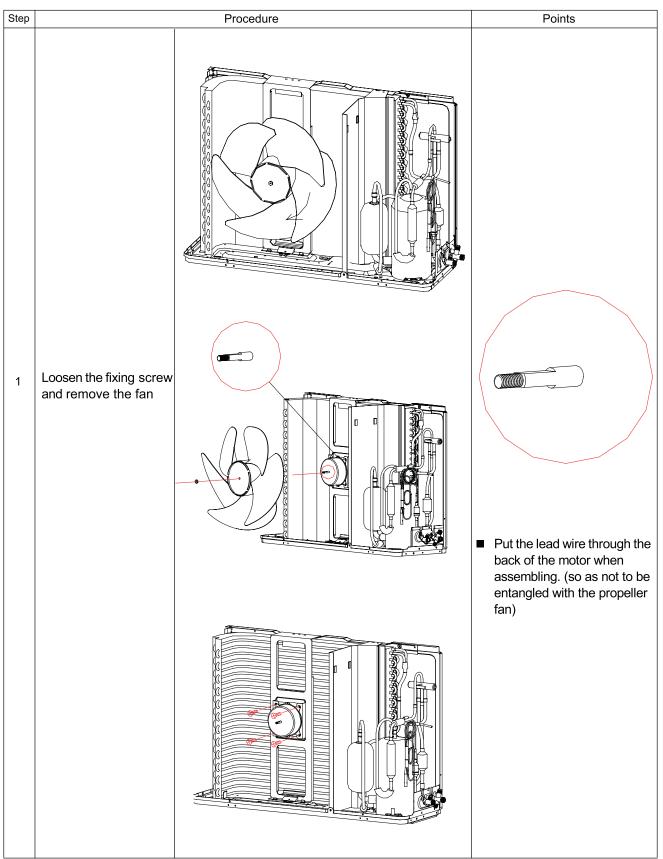
Haier

9.2.3 Removal of Fan and Fan Motor

Procedure

Marning

ng Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

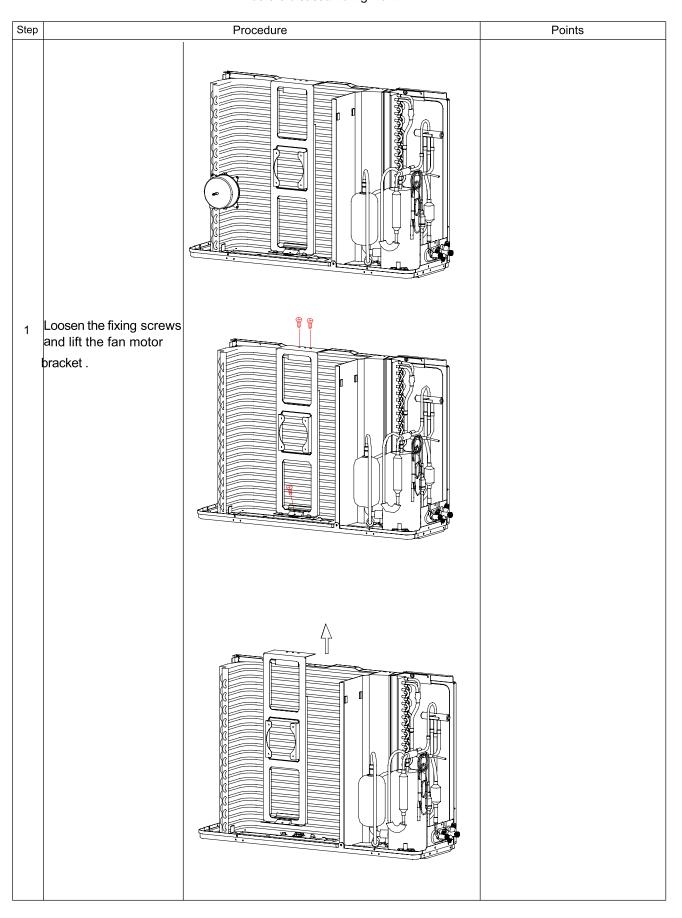


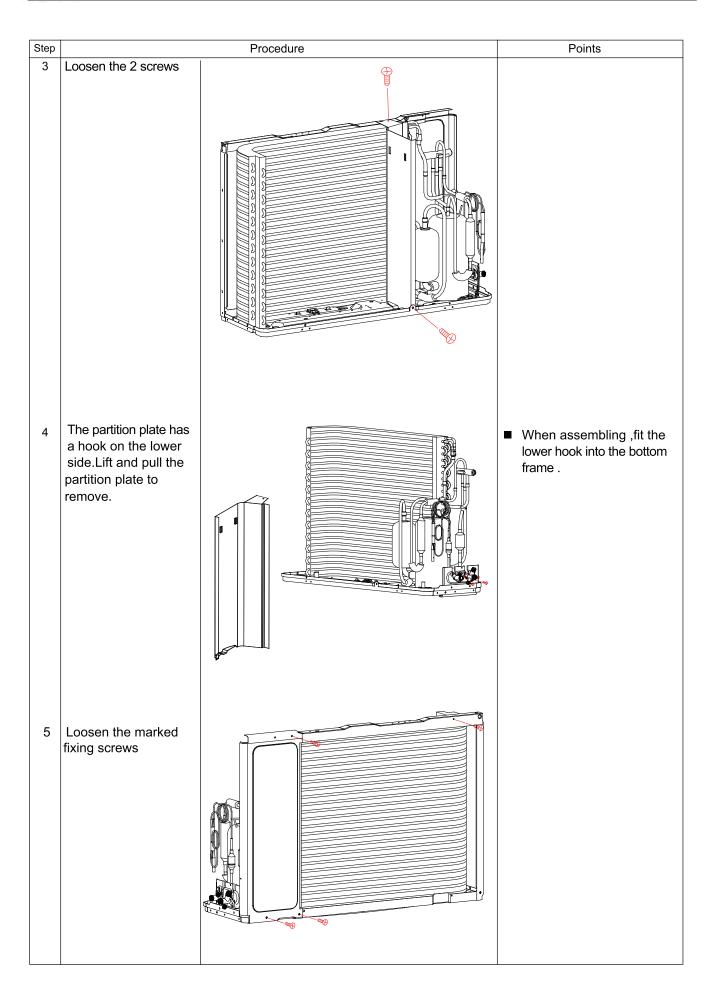
9.2.4 Removal of fan motor bracket and partition

Procedure



Warning Be sure to wait 10 minutes or mo before disassembling work.

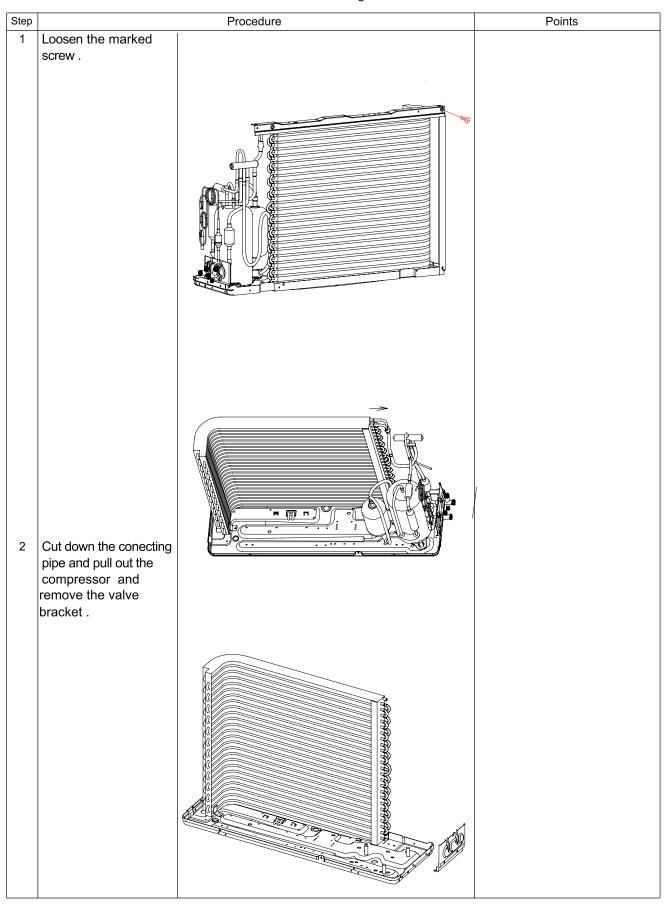


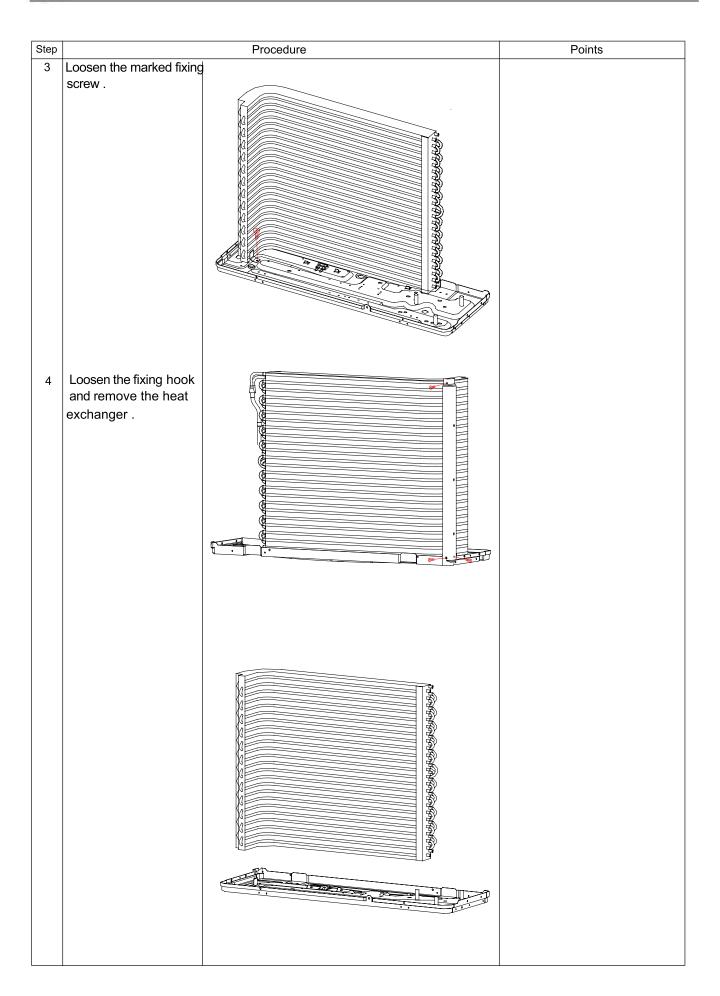


9.2.5 Removal of compressor and heat exchanger

Procedure

Warning Be sure to wait 10 minutes or more after tu before disassembling work.

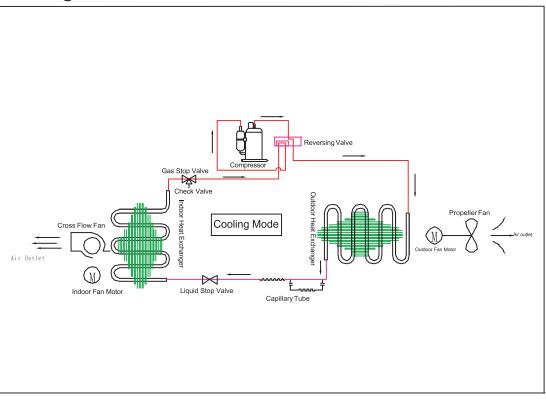




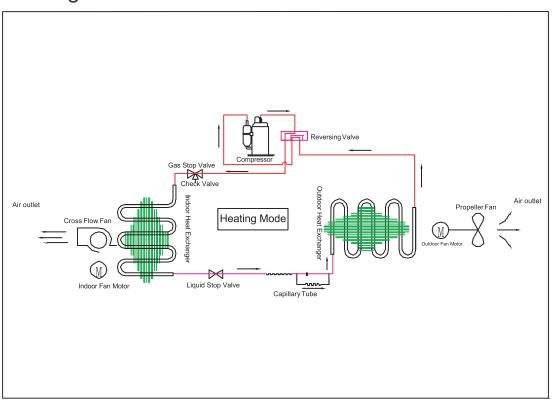
10. Appendix

10.1 Piping Diagrams

Cooling mode

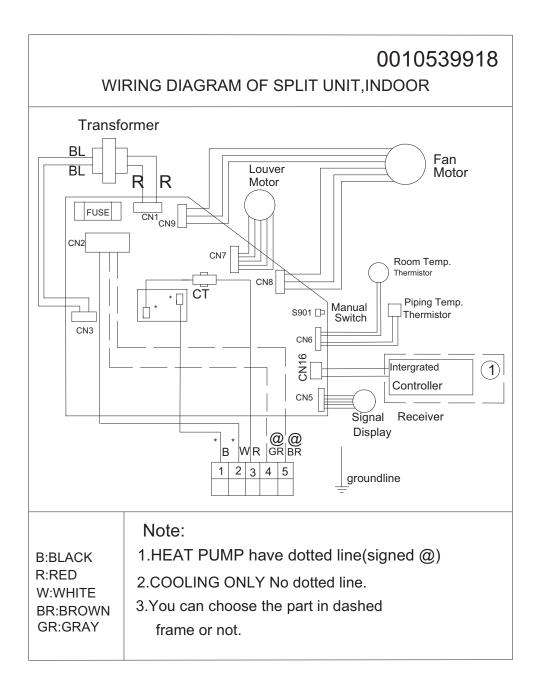


Heating mode

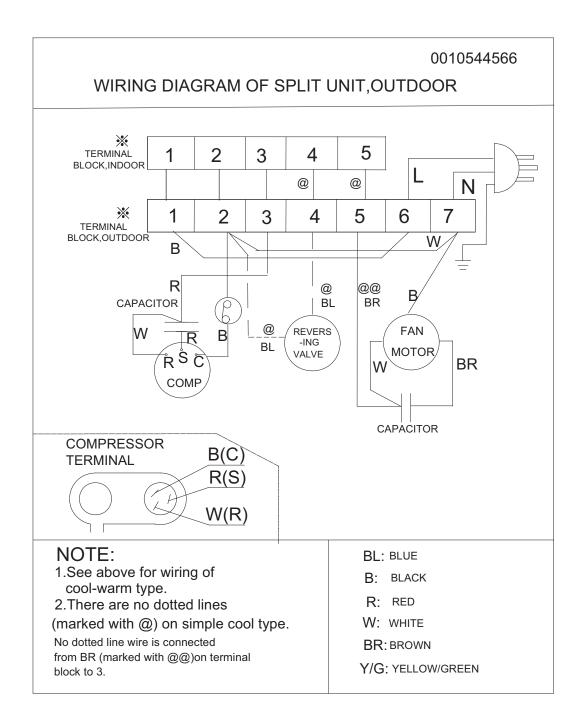


10.2 Wiring Diagrams

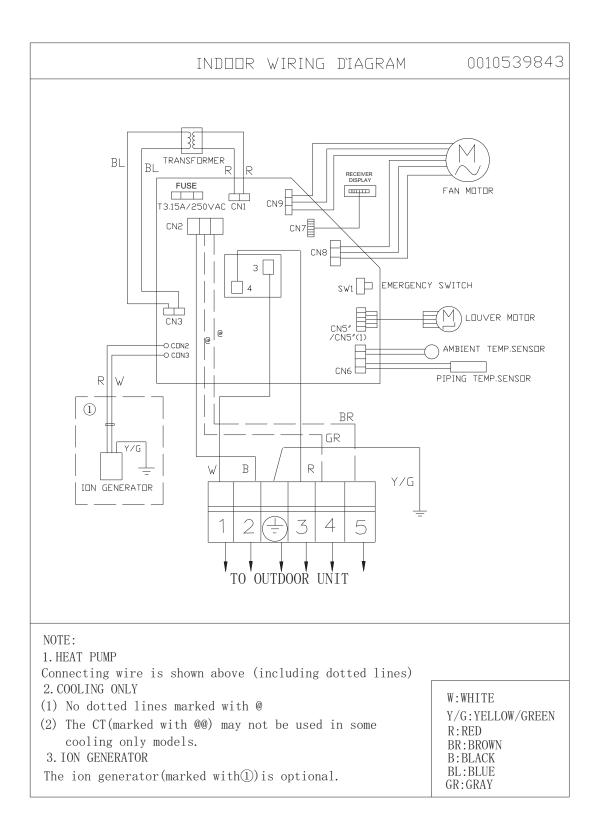
10.2.1 Indoor wiring diagram of HSU09XHK



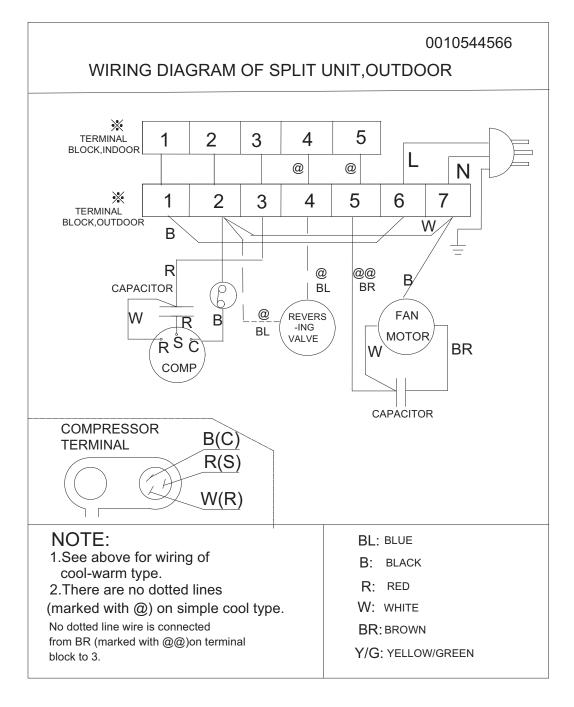
10.2.2 Outdoor wiring diagram of HSU09XHK



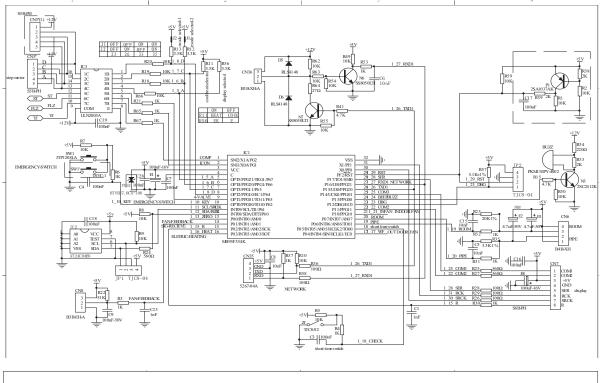
10.2.3 Indoor wiring diagram of HSU12XHK

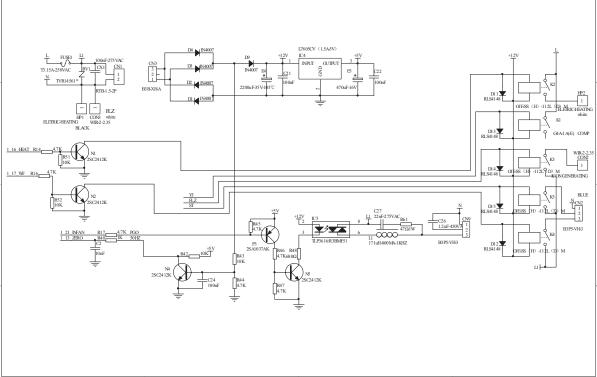


10.2.4 Outdoor wiring diagram of HSU12XHK

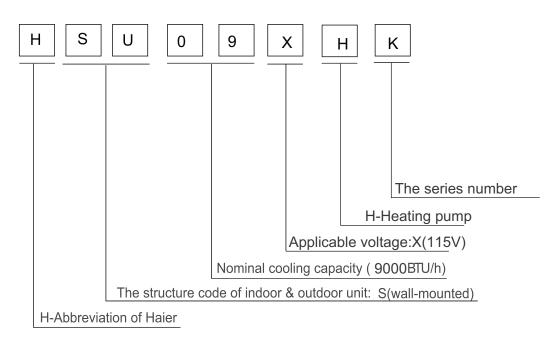


10.3 Circuit Diagram





11. Description of coding rules of unit model



HSU12XHK means 12000BTU.

Examples:

HSU-07RD03/R1, It represents wall-mounted split type heat pump air conditioner. The cooling capacity is 7000BTU/h, and the power supply is 220-230V/50Hz, "D" means the developing sequence, and "R1" means the refrigerant is R407C.

Sincere Forever

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