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	天 木要求		茶 . 印1	副字诙洁	晰敷法	内容正确、	没有明显的城	黑	和	重影	等钟版	
1. 纸 2. 纸 3. 未	张边角应 质为80g 注公差者		齐; 印』	削字迹清 ;	晰整洁、	内容正确,	没有明显的拖	墨	和	重影	等缺陷	İ;
1. 纸 2. 纸 3. 未 4. 版	张边角应 质为80g 注公差哲 面为A5;	立裁剪整	04-c级	削字迹清 ;	晰整洁、	内容正确,;	没有明显的拖		和	重影	等缺陷	;
1. (1. (1. (1. (1.) ()) (1.) (1.) (1.) ()) (1.) ((1.) ()) ()	张边角应 为80g 公差払 为A5; 色要求∶	立裁剪整: /m ² ; gGB/T18 黑色K100	04-c级);	;					和	重影	等缺陷	;
1. 2. 3. 未版颜 C	张边角应 质为80g 拉公差5; 色要求: G	立裁剪整∃ /m ² ; gGB/T18 黑色K100 G.2406-1320	04-c级);	; 焦裕坤	20240624	TCC-24D2H	没有明显的拖 HWH/DVI(02)				等缺陷 	
1. 纸纸 2. 纸纸 3. 未版颜 C B	张边角应 质为80g 注公差打 面为A5; 色要求: G(立裁剪整∃ /m ² ; gGB/T18 黑色K100 G.2406-1320 G.2403-1918	04-c级);	; 焦裕坤 焦裕坤	20240624 20240327	TCC-24D2H (功能升级)	IWH/DVI(02))		850()8-1017	76
1. 纸纸 2. 3. 未版颜 C B D	张边角应 质注面色要求: G(G(G(立裁剪整; /m ² ; gGB/T18 黑色K100 G.2406-1320 G.2403-1918 G.2407-0342	04-c级);	; 焦裕坤 <u>焦裕</u> 坤	20240624 20240327 20240705	TCC-24D2H (功能升级))				76
1. 纸纸 2. 纸纸 3. 未版颜 C B	张边角应 热为80g 疗法面色要求:: GG GG	立裁剪整 /m ² ; gGB/T18 黑色K100 G.2406-1320 G.2403-1918 G.2407-0342 更改文件4	04-c级); 	; 焦裕坤 焦裕坤	20240624 20240327	TCC-24D2H (功能升级) 变频D2风	IWH/DVI(02) 管机说明书)		850()8-1017	76
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Safety Notice

The air conditioner is charged with inflammable refrigerant R32.
Before using the air conditioner, please first read the instruction manual.
Before installing the air conditioner, please first read the instruction manual.
Before repairing the air conditioner, please first read the technical service manual.

Compared with common refrigerant, R32 is an environmental-friendly refrigerant that has no harm to the ozone layer and weak greenhouse effect. Its GWP is 675. Because of its thermodynamic characteristics, R32 requires a smaller charging quantity to reach high energy efficiency. It is inflammable and odourless, but may cause explosion under certain circumstances.

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• Read the following " PRECAUTIONS" carefully before installation.

 The caution items stated here must be followed because these important contents are related to safety. The meaning of each indication used is as below.

Incorrect installation due to ignoring of the instruction will cause harm or damage, and the seriousness is classified by the following indications.

	This indication shows the possibility of causing death or serious injury.
	This indication shows the possibility of causing injury or damage to properties only.

NOTE :

- 1. Injury means causing harmed, burned, electrical shocked, but not serious for hospitalization.
- 2. Damage of property means disrepair of property, material.
- Carry out test running to confirm that no abnormality occurs after the installation. Then, explain to user the operation, care and maintenance as stated in instructions. Please remind the customer to keep the operating instructions for future reference.

 Engage dealer or specialist for installation. If installation done by user is defective, it will cause water leakage, electrical shock or fire.
 Install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock or fire.
• Use the attached accessories parts and specified parts for installation. Otherwise, it will cause the set to fall, water leakage, fire or electrical shock.
• Install at a strong and firm location which is able to withstand the set's weight. If the stren- gth is not enough or installation is not properly done, the set will drop and cause injury.
• For electrical work, follow the local national wiring standard, regulation and this installa- tion instructions. An independent circuit and single outlet must be used. If electrical circuit capacity is not enough or defect found in electrical work, it will cause electrical shock or fire.
 When carrying out piping connection, take care not to let air or other substances other than the specified refrigerant go into refrigeration cycle. Otherwise, it will cause lower capacity, abnormal high pressure in the refrigeration cycle, explosion and injury.
• Grounding is necessary. It may cause electrical shock if grounding is not perfect.
 Do not install the unit at place where leakage of flammable gas may occur. In case gas leaks and accumulates at surrounding of the unit, it may cause fire.

The appliance is not to be used by persons (including children) with reduced physical,

- sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children being supervised not to play with the appliance.
- The appliance shall be installed in accordance with national wiring regulations.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.

Operating condition

The protective device maybe trip and stop the unit within temp range listed below:

Outdoor air temperature is over 24 $^\circ\!\mathrm{C}$
Outdoor air temperature is below -15 $^\circ\!\mathrm{C}$
Room temperature is over 30
Outdoor air temperature is over 52 $^\circ\!\mathrm{C}$
Outdoor air temperature is below -15 $^\circ\!\!\mathrm{C}$
Room temperature is below $17^{\circ}C$
Room temperature is below 17°C

If the air conditioner runs for a long time in "COOLING" or "DRV" mode at air relative humidity higher than 80% (doors or windows opened),dew may generate and drip near air outlet.

Features of Protector

- The protective device will trip at following cases.
- Stop the appliance and restart it at once or change other modes during operation, you have to wait 3 minutes before restarting.
- After switching on the power circuit breaker and then turn on the air conditioner at once, you have to wait about 20 seconds.

In case all operations have stopped, you need

- Press "ON/OFF" button again to restart it.
- Set TIMER once again if it has been canceled.

Noise pollution

- Install the air conditioner in a place that can bear its weight in order to operate more quietly.
- Install the outdoor unit in a place where the air discharged and the operation noise do not annoy your neighbors.
- Do not place any obstacles in front of the outlet of the outdoor unit for fear it affects operation and increases the noise level.

Inspection

After a long time of operation, the air conditioner should be inspected for the following items.

- Abnormal heating of the power supply cord and plug or even a burnt smell.
- Abnormal operating noise or vibration.
- Water leakage from indoor unit.
- Metal cabinet electrified .
- Stop using the air conditioner if above problem happened. It is advisable that the air conditioner should be given a detail check-up after using for five years even if none of the above happen.

Feature of HEATING mode

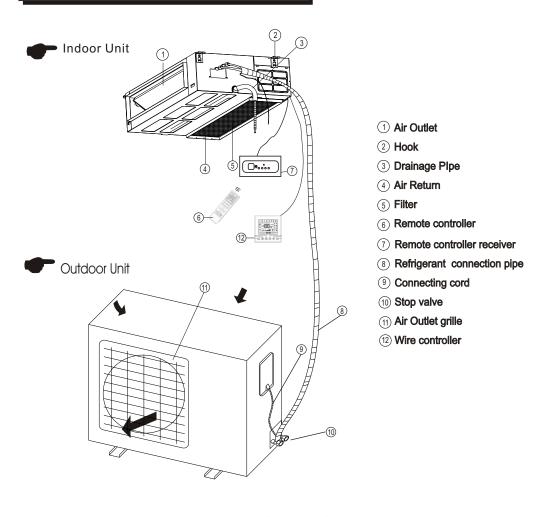
Preheat

2-5 minutes are necessary to preheat the indoor heat exchanger at the beginning of "HEATING" operation, lest cold air be discharged.

Defrost

In "HEATING" operation the appliance will defrost automatically. This procedure lasts $2\sim$ 10 minutes, then returns to "HEATING" mode automatically. During defrosting, indoor fan stop running and return to heating mode operation automatically when defrosting has finished.

PARTS AND FUNCTIONS



Requirements

• The air conditioner cannot be started up until it is powered on for 2 hours. Furthermore, in case of a shutdown lasting for about one diel only, please do not cut off the electricity supply. (it is necessary to heat the crankcase heater so as to avoid force start of compressor.)

•

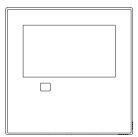
Notice that the air inlet/outlet must not be choked up. If chokeup takes place, the air conditioner behavior may be affected, or air conditioner cannot run because of

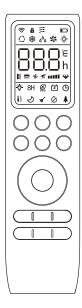
Wire Controller

EN

Please see the detailed instructions for the wire controller

No.	Symbols	Meaning
1		Battery indicator
2	0	Auto Mode
3	*	Cooling Mode
4	٥ ^۵ ٥	Dry Mode
5	*	Fan only Mode
6	×.	Heating Mode
7	K ECO	ECO Mode
8	Θ	Timer
9	<i>8.8</i> °⁼	Temperature indicator
10	* ****	Fan speed: Auto/ low/low-mid/ mid/ mid-high/ high
11	1	Mute function
12	\	TURBO function
13		Up-down auto swing
14		Left-right auto swing
15	১	SLEEP function
16	*	Health function
17	₽Ő	I FEEL function
18	8H	8°C heating function
19	((ŗ	Signal indicator
20		Gentle wind
21	a	Child-Lock
22	ج	Display ON/OFF
23	Ē	GEN function
24	*	Self-Clean function
25	Ø	Anti-Mildew





⚠️ The display and some functions of the remote control may vary according to the model.

No.	Button	Function
1	\bigcirc	To turn on/off the air conditioner .
2	^	To increase temperature, or Timer setting hours.
3	~	To decrease temperature, or Timer setting hours.
4	MODE	To select the mode of operation (AUTO, COOL, DRY, FAN, HEAT).
5	560	To activate/deactivate the ECO function.
5	ECO	Long press to activate/deactivate the 8°C heating function (depending on models).
6	TURBO	To activate/deactivate the TURBO function.
7	FAN	To select the fan speed of auto/mute/low/low-mid/mid/mid-high/high/turbo.
8	TIMER	To set the time for timer on/off.
9	SLEEP	To switch-on/off the function SLEEP.
10	DISPLAY	To switch-on/off the LED display.
11	I	To stop or start horizontal flaps louver movement or set the desired up/down air flow direction.
12	宗	To stop or start vertical deflectors louver movement or set the desired left/right air flow direction.
13	I FEEL	To switch-on/off the I FEEL function.
14	MUTE	To switch-on/off the MUTE function.
14	WIGTE	Long press to activate/deactivate the GEN function (depending on models).
15	MODE + TIMER	To activate/deactivate the CHILD-LOCK function.
16	CLEAN	To activate/deactivate the SELF-CLEAN function (depending on models).
17	FAN + MUTE or GENTLE WIND	To activate/deactivate the GENTLE WIND function (depending on models).
18	HEALTH	To activate/deactivate the HEALTH function (depending on models).

EN

 \triangle The display and some functions of the remote control may vary according to the model.

 \triangle The shape and position of buttons and indicators may vary according to the model, but their function is the same.

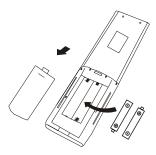
 \triangle The unit confirms the correct reception of each button with the beep.

Replacement of Batteries

Remove the battery cover plate from the rear of the remote control, by sliding it in direction as the arrow.

Install the batteries according the direction (+ and -)shown on the Remote Control. Reinstall the battery cover by sliding it into place.

▲ Use 2 pieces LRO3 AAA (1.5V) batteries. Do not use rechargeable batteries. Replace the old batteries with new ones of the same type when the display is no longer legible. Do not dispose batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.



for some models of the remote controller, you can program the temperature display between °C and °F.

- 1. Press and hold the TURBO button over 5 seconds to get into the change mode;
- 2. Press and hold the TURBO button, until it switch to °C and °F;
- 3. Then release the pressing and wait for 5 seconds, the function will be selected.

Note:

- 1. Direct the remote control toward the Air conditioner.
- 2. Check that there are no objects between the remote control and the Signal receptor in the indoor unit.
- 3. Never leave the remote control exposed to the rays of the sun.
- 4. Keep the remote control at a distance of at least 1m from the television or other electrical appliances.

COOLING MODE

COOL衆

The cooling function allows the air conditioner to cool the room and reduce Air humidity at the same time.

To activate the cooling function (COOL), press the **MODE** button until the symbol ***** appears on the display.

With the button \checkmark or \land set a temperature lower than that of the room.

FAN MODE (Not FAN button)

FAN 🛠

Fan mode, air ventilation only.

To set the FAN mode, press **MODE** until **\$** appears on the display.

DRY MODE

DRY هم This function reduces the humidity of the air to make the room more comfortable.

To set the DRY mode, Press $\boxed{\text{MODE}}$ until δ^{δ}_{δ} appears in the display. An automatic function of pre-setting is activated.

AUTO MODE

AUTO 🔿 Au

Automatic mode.

To set the AUTO mode, press **MODE** until () appears on the display.

In AUTO mode the run mode will be set automatically according to the room temperature.

HEATING MODE

HEAT 🔅

The heating function allows the air conditioner to heat the room.

To activate the heating function (HEAT), press the **MODE** button until the symbol - appears on the display.

With the button \checkmark or \checkmark set a temperature higher than that of the room.

⚠ In HEATING operation, the appliance can automatically activate a defrost cycle, which is essential to clean the frost on the condenser so as to recover its heat exchange function. This procedure usually lasts for 2-10 minutes. During defrosting, indoor unit fan stop operation. After defrosting, it resumes to HEATING mode automatically.

(For North American market)

If necessary, you can press ECO button 10 times within 8 seconds under heating mode to start the forced defrosting. It will defrost the outdoor ice much faster.

FAN SPEED function (FAN button)



Change the operating fan speed.

Press **FAN** button to set the running fan speed, it can be set to AUTO/ MUTE/ LOW/ LOW-MID / MID/ MID-HIGH/ HIGH/ TURBO speed circularly.



Child-Lock function

- Long press MODE and TIMER button together to active this function, and do it again to deactivate this function.
- 2. Under this function, no single button will active.

TIMER function ---- TIMER ON



To automatically switch on the appliance.

When the unit is switch-off, you an set the TIMER ON.

To set the time of automatic switch-on as below:

- 1. Press **TIMER** button first time to set the switch-on, (● and [60h] will appear on the remote display and flashes.
- Press ^ or v to button to set desired Timer-on time. Each time you press the button, the time increases/decreases by half an hour between 0 and 10 hours and by one between 10 and 24 hours.
- 3. Press **TIMER** button second time to confirm.
- 4. After Timer-on setting, set the needed mode (Cool/ Heat/ Auto/ Fan/ Dry), by press the
 MODE button. And set the needed fan speed, by press FAN button. And press ^ or ∨ to set the needed operation temperature.

CANCEL it by press **TIMER** button.

TIMER function ---- TIMER OFF

To automatically switch off the appliance.

When the unit is switch-on, you can set the TIMER OFF.

To set the time of automatic switch-off, as below:

- 1. Confirm the appliance is ON.
- 2. Press the **TIMER** button at first time to set the switch-off.

Press $\land or \lor to set the needed timer.$

3. Press **TIMER** button at the second time to confirm.

CANCEL it by press **TIMER** button.

Note: All programming should be operated within 5 seconds, otherwise the setting will be cancelled.

SWING function



- 1. Press the button SWING to activate the louver,
 - 1.1 Press for activate the horizontal flaps to swing from up to down, the swill appear on the remote display.
 - 1.2 Press me to active the vertical deflectors to swing from left to right, the me will appear on the remote display.
 - 1.3 Do it again to stop the swing movement at the current angle.
- If the vertical deflectors are positioned manually which placed under the flaps, they allow to move the air flow direct to rightward or leftward.
- ▲ Never position "Flaps" manually, the delicate mechanism might get seriously damaged!
- Never put fingers, sticks or other objects into the air inlet or outlet vents. Such accidental contact with live parts might cause unforeseeable damage or injury.

TURBO function

TURBO 🁾

To activate turbo function, press the **TURBO** button, and **W** will appear on the display. Press again to cancel this function. In COOL/ HEAT mode, when you select TURBO feature, the appliance will turn to quick COOL or quick HEAT mode, and operate the highest fan speed to blow strong airflow.

MUTE function

MUTE 🛒

- Press MUTE button to active this function, and v will appears on the remote display. Do it again to deactivate this function.
- 2. When the MUTE function runs, the remote controller will display the auto fan speed, and the indoor unit will operate at lowest fan speed to help experience a quiet feeling.
- 3. When press FAN/ TURBO button, the MUTE function will be cancel. MUTE function can not be activated under dry mode.

ECO function

ECO 🖉

In this mode the appliance automatically sets the operation to save energy.

Press the **ECO** button, the $\bigotimes_{i=0}^{m}$ appears on the display, and the appliance will run in ECO mode. Press again to cancel it.

Note: The ECO function is available in both COOLING and HEATING modes.

SLEEP function

SLEEP *Pre-setting automatic operating* program.

Press **SLEEP** button to activate the SLEEP function, and \checkmark appears on the display. Press again to cancel this function.

After 10 hours running in sleep mode, the air conditioner will change to the previously set mode.

DISPLAY function (Indoor display)

DISPLAY Switch ON/OFF the LED display on panel.

Press **DISPLAY** button to switch off the LED display on the panel. Press again to switch on the LED display.

I FEEL function (Optional)

I FEEL 👔

Press IFEEL button to active the function, the ∯ຶ will appear on the remote display. Do it again to deactivate this function.

This function enables the remote control to measure the temperature at its current location, and send this signal to the air conditioner to optimize the temperature around you and ensure the comfort.

It will automatically deactivate 2 hours later.

GEN function (Optional)



- 1. Turn on the indoor unit at first, and long press [MUTE] button 3 seconds to activate, and do it again to deactivate this function.
- 2. Under this function, short press **MUTE** button to select the General type L3 L2 L1 OF.
- 3. Select OF and wait 2 seconds to exit it.
- * If the indoor unit displays "OA", please use the remote to raise the operating gear of the GEN mode, and the compressor will restart after stopping for 3 minutes.

SELF-CLEAN function (Optional)

Only optional for some heating pump inverter appliance.

To active this function, turn off the indoor unit at first, then press **CLEAN** button then you will hear a beep, [AC] will appear on the indoor LED, and **v** will appear on the remote display.

- 1. This function helps carry away the accumulated dirt, bacteria, etc from the indoor evaporator.
- 2. This function will run about 30 minutes, and it will return to the pre-setting mode. You can press (2) button to cancel this function during the process.

You will hear 2 beeps when it's finished or cancelled.

- It's normal if there is some noise during this function process, as plastic materials expand with heat and contract with cold.
- We suggest operating this function at the following ambient conditions to avoid certain safety protection features.

Indoor unit	Temp < 86°F (30°C)
Outdoor unit	41°F (5°C) < Temp < 86°F (30°C)

A It's suggested to utilize this function every 3 months.

8°C heating function (Optional)

1. Long press $\boxed{\text{ECO}}$ button over 3 seconds to active this function, and $[\underline{\mathscr{B}}^\circ \underline{\vec{C}}]$ ($[\underline{4}6^\circ \underline{\vec{F}}]$) will appear on the remote display.

Do it again to deactivate this function.

- This function will auto start the heating mode when the room temperature is lower than 8°C (46°F), and it will return to standby if the temperature reaches 9°C (48°F).
- If the room temperature is higher than 18°C (64°F), the appliance will cancel this function automatically.

Gentle Wind function (Optional)

- Turn on the indoor unit, and change to COOL mode, then press GENTLE WIND button or long press FAN and MUTE button together 3 seconds to active this function, imes will appear on the display. Do it again to deactivate it.
- This function will auto close the vertical flaps, and give you the comfortable gentle wind feeling.

Health function (Optional)

 Turn on the indoor unit at first, press HEALTH to active this function, \$ will appear on the display.

Do it again to deactivate it.

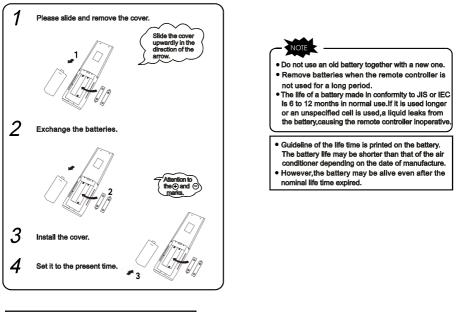
2. When the HEALTH function is initiated, the Ionizer/ Plasma/ Bipolar Ionizer/ UVC Lights (depending on models) will be energized and running.

Remote controller handling procedure

Batteries replacing procedure

Following cases signify dead batteries.Replace the dead batteries with new ones.

- · Receiving sound is not emitted from the unit when signal is transmitted.
- Indicator becomes indistinct.



Note of remote controller handling

• A place with high temperature such as near an electric carpet or a stove.	A place unprotected from direct sunlight or strong lighting.	• It will be damaged if fallen.Be careful.
• Do not put obstacles between the remote controller and the unit.	• Protect the remote controller from being splashed with water, etc.	• Do not put weights on the remote controller.

About SLEEP operation

About SLEEP Operation

When the SLEEP operation is selected, the room temperature is automatically controlled with elapsed time so that theroom isn't too cool during cooling or too warm during heating.

About power-off memory function

When the air conditioner disconnect the power suddenly, restart it, theair conditioner operates at the mode it did before powersuddenly failed.

These are not failures

Room air is smelly.

A bad odor comes from the air conditioner.

• Smells impregnated in the wall, carpet, furniture, clothing, or furs, are coming out. A white mist of chilled air or water is generated from the outdoor unit.

ACAUTION

If any of the following conditions occur, stop the air conditioner immediately, set off the power switch, and contact the dealer.

- The indicator lamps flash rapidly(five times per second),you disconnect the unit with the power and then connect the unit with the power again after two or three minutes but the lamps still flash.
- Switch operations are erratic.
- The fuse is blown frequently or the circuit breaker is tripped frequently.
- Foreign matter or water has fallen inside the air conditioner.
- Any other unusual condition is observed.

TROUBLES AND CAUSES (ABOUT REMOTE CONTROLLER)

Before you ask for service or repairs, check the following points.

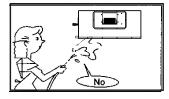
Setting change is impossible.					
Symptoms	Causes	Reason and Disposal			
The fan speed can not be	 Check whether the MODE indicated on the display is "AUTO". 	When the automatic mode is selected ,the air conditioner automatically selects the fan speed .			
changed.	• Check whether the MODE indicated on the display is "DRY."	When dry operation is selected, the air conditioner automatically select the fan speed. The fan speed can be selected during 'COOL'' and FAN ONLY.and 'HEAT'			
The T	ransmission Indicator' \ never cor	nes on			
Symptoms	Causes	Reason and Disposal			
The remote control signal is not transmitted even when the ON/FF button is pushed.	• Check whether the batteries in the remote controller are exhausted.	The remote control signal is not transmitted,because the power supply is off.			
The Display never comes On					
Symptoms	Causes	Reason			
The TEMP.indicator does not come on.	•Check whether the MODE indicated on the display is "FAN ONLY."	The temperature cannot be set during fan only operation.			

HAND OVER TO CUSTOMERS

INSTALLATION MANUAL of indoor and outdoor unit must be handed over to the customers. Please narrate the manual to the customers in details.

IMPORTANT SAFETY INFORMATION



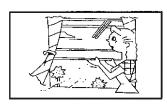


Do not attempt to install this unit by yourself. This unit requires installation by qualified persons.

ADANGER

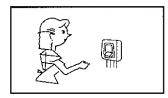
Do not attempt to service the unit yourself. This unit has no user serviceable components. Opening or removing the cover will expose you to dangerous voltage. Turning off the power supply will not prevent potential electric shock.

Never put hands or objects into the air outlet of indoor or outdoor units.These units are installed with a fan running at high speed. To touch the moving fan will cause serious injury.

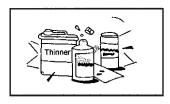


To avoid the risk of serious electrical shock.Never sprinkle or spill water or liquids on unit.

Ventilate the room regularly while the air conditioner is in use, especially if there is also a gas appliance in use in this room, Failure to follow these directions may result in a loss of oxygen in the room.



To prevent electric shock, turn off the power or disconnect the power supply plug before beginning any cleaning or other routine maintenance.





Do not use liquid cleaners or ærosol cleaners, use a soft and dry cloth for cleaning the unit .To avoid electric shock, never attempt to clean the units by sprinkling water.

ACAUTION

Do not use caustic household drain cleaners in the unit.Drain cleaners can quickly destroy the unit components(drain pan and heat exchanger coil etc).

For proper performance, operate the unit in temperature and humidity ranges indicated in this owner's manual. If the unit is operated beyond these conditions, it may cause malfunctions of the unit or dew dripping from the unit.

Pre-installation precautions

• Please confirm that the installation personnel are qualified in relevant installation service. If the air conditioner was installed by persons without special skills, normal operations would not be ensured, even the personal and estate safety would be affected

The air conditioner must be correctly installed by installation technicians according to the attached 《Installation Manual》, and the user himself should not install it.

User guideline

- The user's installation site should be provided with regular power supply in conformity with that indicated in nameplate of the air conditioner, and its voltage should be within a range 90 %~ 110 % of the rated voltage value.
- Power circuit should be equipped with protector, such as electricity leakage protector or air switch, which should possess a capacity greater than 1.5 times the maximum current value of the air conditioner.
- Never fail to adopt personal circuit and effectively-grounded socket compatible with the attached plug of the air conditioner. The attached plug is equipped with grounding pin, and it must not be modified as desired.
- Please adopt the fuse or circuit breaker prescribed in Installation Instructions.
- Only qualified electrician is allowed to carry out wiring tasks strictly according to electric safety requirements.
- Do ensure good earth of air conditioner, in other words, the main power switch of air conditioner must be connected to reliable ground wire

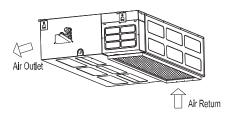
Precautions

- The air conditioner should be installed securely; otherwise poor installation may lead to abnormal noises and vibration.
- Outdoor unit should be installed at a spot ensuring that its air outlet noises and hot exhaust will not violate your neighbors.

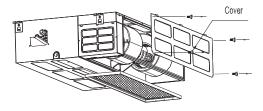
Choice of air return ways

This indoor unit is fitted with downward air return, which can be change to its backward counterpart if necessary. Please follow the steps below(2-5) to change it into the mode of air return backward(6).

1.Air return downward

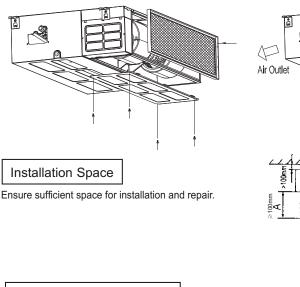


2. Loose the nut and dismantle flannel plate and filter; Loose the nut dismantel the back over.

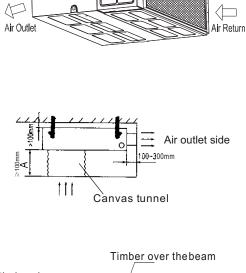


4. Air return backward.

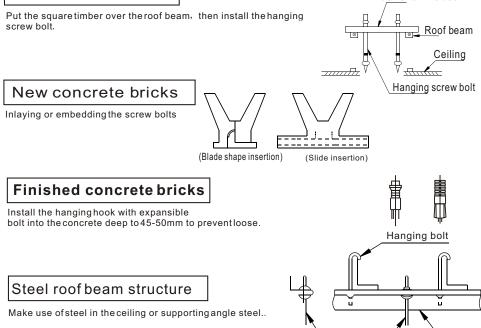
3. Install the flannel plate and filter at the backside; Install the cover to the downside.



Wooden construction

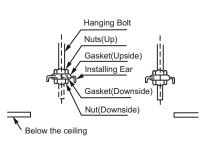


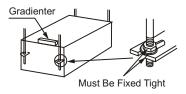
Hanging bolts Supporting angle steel



Hanging & Installation of Indoor Unit

Adjust the nut position while the gap between gasket(downside) and ceiling should be confirmed according to actual situations.





Hang the nut inside the U slot of the installation panel.To confirm level degree with gradienter .

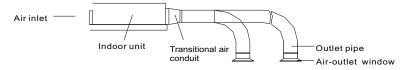
(Leaning downside toward non-draining side is prohibited)

2. How to mount outlet pipe

• Generally, we have two types of outlet pipe available, i.e. rectangular or round ones.

 Rectangular air conduit can be directly connected to air outlet of indoor unit by rivets. For outlet dimensions, see outline drawing of the unit.

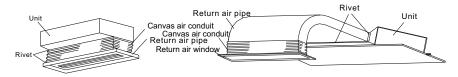
•Round air conduit should be connected to a piece of transitional air conduit before it is connected to air outlet of indoor unit, the other end of it can be separately connected to air conduit window or connected to air conduit window after air flow diversion, and the total length should not be over 6m. As shown in figure below, air speeds at all air outlets should be set to basically consistent so as to meet the room air-conditioning requirements.



3. Installation method for return air pipe

• In case sidewise air intake is adopted, return air pipe should be fabricated and rivet-connected to return air orifice, and the other end of it should be connected to return air window.

•In case of underside air intake, purchase or fabricate a section of pleated canvas air conduit serving as transition joint for return air orifice and return air window. in this way, it can be freely adjusted according to height of indoor ceiling board; in addition, during operation of the unit , canvas air conduit may avoid vibration of ceiling board, as shown in figure below.

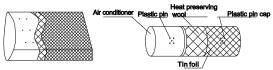


Installation mode for underside air intake

Installation mode for sidewise air intake

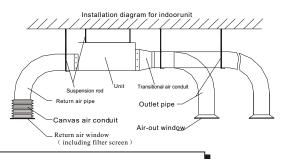
4. Tips for installation of return air pipe and outlet pipe

• To minimize energy loss occurring in transmission process and condensed water during heating operation, return air pipe and outlet pipe should be equipped with heat-insulating layer as shown in the figure.



• Return air pipe and outlet pipe should be fixed to floor precast slabs by iron stand; in addition, all ports of the air conduit should be tightly sealed by gasket cement, and it is advisable that the edge clearance of return air pipe should be 150mm at least.

•Drain pipe for condensed water should be installed with minimum gradient of 1 %, and the drain pipe should be insulated with heat-preserving pipe casing as well.



DRAINAGE PIPE INSTALLATION

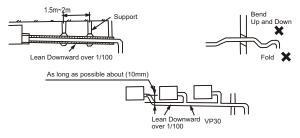
Low staiic pressure drainage pipe installation

CAUTION

Be sure to follow this Installation Manual during drainage installation, the drainage pipe must have the heat insulation to prevent condensing.



- The drain pipe of indoor unit must have the heat insulation , or it will condense dew, as well as the connections of the indoor unit.
- The declivity of the drain pipe downwards should not be over 1/100, and no winding and bending.
- The total length of the drain pipe when pulled out traversely shall not exceed 20m , when the
- pipe is over long, a prop stand must be installed every 1.5 to 2m to prevent winding.
- Refer to the following figures about the installation of the pipes.
 Do not impose any pressure on the connection part of the drainage pipe.



Drainage Pipe Material, Heat-insulating Material

The listed material should be used:

Drainage Pipe Material	Polyvinyl chloride pipe (32mm outer diameter)
Heat Insulation Material	Foamed polyethylene insulation plate (10mm thickness)
,	

Connection Procedure

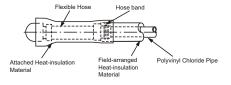
Connect the transparent pipe with the polyvinyl chloride pipe.

Use polyvinyl chloride glue at the connection part of the drainage pipe, be sure no water

- e leakage.
- Paste glue at the front 40mm of the polyvinyl chloride pipe, insert it into the transparent pipe.
- It needs 10 minutes for the glue to dry. Do not impose pressure on the connection during the drying period.

Heat Insulation

Wrap the flexible hose carefully with the attached heat insulation material from the start to theend (to indoor part)

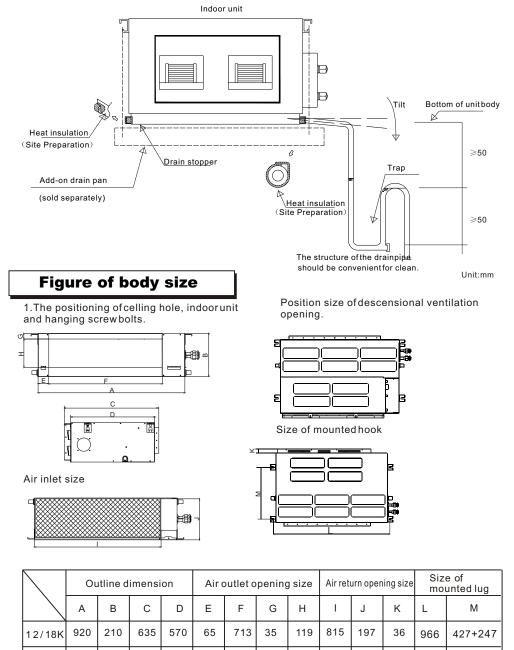


Hight static pressure drainage pipe installation

Warning:

Must install drainpipes according to the following figure , avoiding generating condensed water and leakage water.

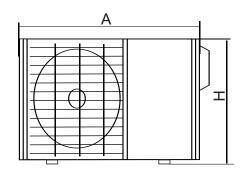
- a.Assemble the mainbody according to Figure .
- b.The opening of drainpipes can be installed on the leftside or the right side . Could remove the drain stopper and putit on the leftside or the right side.
- c.For the best effect, should keep pipes as short as possible. Tilt the pipes to ensure the flow offluid.
- d.Make sure the drainpipes have admirable heat insulation.
- e.It is necessary to install a trap near the opening of the drainpipe, so that when the machine is working, the pressure in the inside of the machine is lower than atmospheric pressure. If there isn't a elbow, the waterwill splash and the pipe will produce a bad smell.
- f.keep straightness ofdrainpipes so as to remove dirt.
- g.Seal the drainpipe on the otherside of the machine , then wrap up the drainpipe in the heat-barrier materials .
- h.Put water into the drain pan to test whether the water can be discharged swimmingly.
- i.In humid conditions, please mustuse a add-ondrain pan(commercially available) to cover the whole area of the indoor unit.

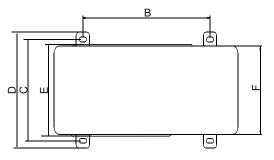


24K	920	270	635	570	65	713	35	179	815	260
30/36K	1140	270	775	710	65	933	37	175	1034	260
42/48/55K	1400	250	755	700	15	1368	18	170	1398	237

Figure of Body Size

Split type outdoor unit





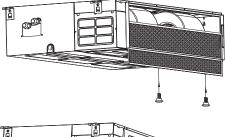
MODE	Α	В	С	D	Е	F	Н
12/18K	780	516	314	350	321	307	605
24/30K	845	586	348	375	358	342	700
36/42K	910	607	390	421	391	378	804
48/55K	1010	660	462	494	440	436	858

CLEANING

🛆 Warning: please shut down the unit and cut off the power before cleaning for safe.

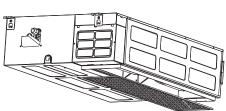
CLEAN THE FILTER

- Clean the unloaded filter with vacuum cleaner or water.
- Scrub with neutral detergent if the filter is too dirty. Do not wash with hot water (about above 50 °C), in case it is out of shape.
- Place it on a ventilated place and cannot be under the sunshine directly after washing lest it is out of shape.
- For your purchasing unit is a rear ventilated one, please remove the filter fixed screws (2screws) and take down the filter a way from the unit.



For your purchasing unit is a descensional

ventilate done, please push the filter up slightly to let the position retainer escape away from the flange fixed holes, and take off the filter according to the arrow direction shows in the following fig.



MAINTENANCE

1. Please do the following job well if the air conditioner is not used for a long time.

In order to dry the unit completely, set the FAN mode and runs for 3-4hours.

Shut down the air conditioner and cut off the power supply.

2. When used again after the unit stops for a long period:

When cleaning the filter and indoor unit, you must stop the unit and cut off power supply. Wipe the indoor unit with soft cloth. It is forbidden to posh the machine with petrol, benzene, lye, powder, detergent, insecticide etc., Which will damage the unit.

Ensure air in let and outlet of indoor and outdoor unit are not blocked by rubbish.

Check whether the grounded wire is loose and flexible, then connect the power.

AFTER-SALESSERVICE

When your air conditioner can not run in order, please shut down the machine and cut off the power supply immediately. Then contact dealers.

Choose installation location

- 1、A place where there are sufficient space for repair
- 2. Hung ceiling that can bear the weight of the machine.
- 3, A place that air inlet and outlet is not hindered and without influence from outdoor air
- 4、A place without heat source like smoke, fire or toxic pullution.
- 5. A place where air flow can be transmitted everywhere in the room.
- 6、A place convienient for installation.

OUTDOOR UNITS

- 1.A place where there is sufficient space for installation and repair.
- 2.A place where the air inlet and outlet are not hindered, without strong air flowing.
- 3.A dryand ventilated place.

4.A place where the overhanging is leveland bear the weight of the outdoor unit, without much noise.

- 5.A place where neighbours are not annoyed by noise and exhausted air.
- 6.A place without leakage offlammable gas.
- 7.A place convenient for installation.

Caution:(location in the following places may cause malfunction of the machine).

- 1.A place where there is flammable gas leakage.
- 2. There is salty air surrounding(near the coast)
- 3. There is caustic gas(the sulfide, for example) existing in the ai.
- 4.A place where can not bear the weight of the machine
- 5.In kitchen where it is full of oil gas.
- 6.There is strong electromagnetic wave existing.
- 7. There is acid or alkaline liquid evaporating
- 8.A place where air circulation is not enough.
- 9.Other special surroundings.

OUTDOOR UNIT INSTALLATION

Move outdoor unit

1.Please use 4 pieces of 6mm steel wire hanging the outdoor unit up and move in.

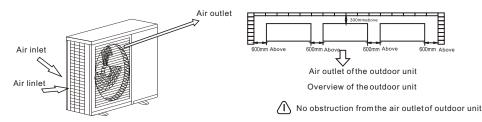
2. To avoid the outdoor unit is out of shpe, please add the baffles at the surface of outdoor unit where the steel wire rope may touch.

3.After moving, please remove the tray wood on the bottom.

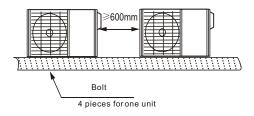


INSTALLATION SPACE

- After leaving repair space as illustrated below, install the outdoor unit with power supply equipmentinstalled at the side of the outdoor unit. Please refer to ELECTRIC SUPPLY INSTALLATION MANUAL for the installation method.
- 2. Please make surenecessary space for installation and repair.



• At least 600mm space must be left between outdoor units as the sketch indicated.



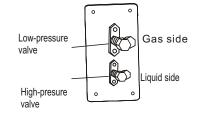
Refrigerant pipe

1. The junction is inside the cover of the right panel, please take off the cover first.

2. The pipe gets out of the side gap of the cover.

3. After connecting from the valve gap, reinstall it from left, right or backwards for installation.

4.The right picture is the sketch map of valve installation board of outdoor. Gas-side(low pressure) is the one upward, liquid side is the one downward.



INSTALLATION

Pre-installation precautions

• Please confirm that the installation personnel are qualified in relevant installation service. If the air conditioner was installed by persons without special skills, normal operations would not be ensured, even the personal and estate safety would be affected.

User guideline

- The user's installation site should be provided with regular power supply in conformity with that indicated in nameplate of the air conditioner, and its voltage should be within a range 90 %~ 110 % of the rated voltage value.
- Power circuit should be equipped with protector, such as electricity leakage protector or air switch, which should possess a capacity greater than 1.5 times the maximum current value of the air conditioner.
- Never fail to adopt personal circuit and effectively-grounded socket compatible with the attached plug of the air conditioner. The attached plug is equipped with grounding pin, and it must not be modified as desired.
- Please adopt the fuse or circuit breaker prescribed in Installation Instructions.
- Only qualified electrician is allowed to carry out wiring tasks strictly according to electric safety requirements.
- Do ensure good earth of air conditioner, in other words, the main power switch of air conditioner must be connected to reliable ground wire.

Precautions

- The air conditioner should be installed securely; otherwise poor installation may lead to abnormal noises and vibration.
- Outdoor unit should be installed at a spot ensuring that its air outlet noises and hot exhaust will not violate your neighbors.

Unit body installation

Please confirm the indoor unit dimension according to the picture below M10 whorl is to be installed.(4 sets)

- Please refer to the following for the center distance between the bolts
- ♦M 10 whorl is used
- Please consult professional for your specific ceiling arrangement.
- 1. Dismantle scale of the ceiling.....please keep ceiling its level. Strengthen the beam to avoid vibration.
- 2. Break the beam of the ceiling
- 3. Strengthen the breaking point of the ceiling and reinforce the ceiling beam.
- After the main body hanging isfinished, arrangement of pipe and line will be done in the ceiling. The direction of the pipe is determined after the installation location is chosen. If the ceiling has existed, please arrange the refrigerant pipe, drainage pipe, indoor and outdoor connecting line.
- Installation of the hanging screw bolt

REFRIGERANT PIPE INSTALLATION

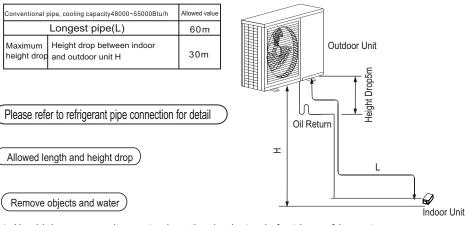
Pipe dimension and ways of installation

Outdoor pipe dimension a	nd ways of install	(in sequence of	cooling canacity)
Outdoor pipe unitension a	inu ways or mistair	(III sequence of	cooling capacity

Pipe M	aterial	Copper Pipe for Air Conditioner			
Model		12/18K	24K	30/36/42/48/55K	
	Liquid side	6.35(1/4 inch)	6.35(1/4 inch)	9.52(3/8 inch)	
Size(mm)	Gas side	9.52(3/8 inch)	12.7(1/2 inch)	15.88(5/8 inch)	

Conventional	Conventional pipe, cooling capacity18000~30000Btu/h		
	30m		
	Height drop between indoor and outdoor unit H	15m	

Conventional	Allowed value	
	Longest pipe (L)	50m
Maximum height drop	Height drop between indoor and outdoor unit H	25m



- Use high-pressure nitrogento clean the pipe instead of outdoor refrigerant.
- Before installing refrigerant pipe, please clean the pipe in case of foreign objects.

Additional refrigerant charge

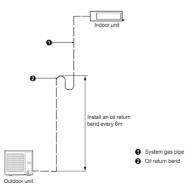
The additional charge is base on the diameter and length of outlet/inlet liquid type . This AChas been charged with that for 5m pipe, those beyond 5 m should recharge as follows.

Liquid pipe diameter	φ 1/4 ″	φ 3/8 ″	φ 1/2 ″
Additional charge for 1m pipe(R32)	0.016kg	0.040kg	0.096Kg

Non-return bend and oil return bend

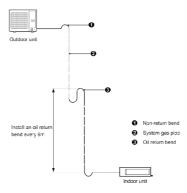
(1) Outdoor unit is beneath the indoor unit.

There's no need to add non-return bend at the lowest or highest position of thevertical pipe, as shown below:

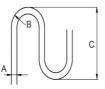


(2) Outdoor unit is above the indoor unit.

It's necessary to add oil return bend and non-return bend at the lowest andhighest position of the vertical pipe, as shown below:



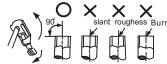
Dimensions for the making of oil return bend are as follows:



A(inch)	B(mm)	C(mm)
Φ3/8	≥20	≤150
Φ1/2	≥26	≤150
Φ5/8	≥33	≤150

FIARING

① Cut the refrigerant pipr off with pipe cutter.



② Flaring after putting the pipe into connection nut.



Outside	A (mm)		
Diameter	MAX	MIN	
1/4 ″	8.7	8.3	
3/8″	12.4	12.0	
1/2 ″	15.8	15.4	
5/8 ″	19.0	18.6	
3/4 ″	23.3	22.9	

Stop valve operation item

- Open the valve rod til to the position rod.
- Do not trey to open larger.
- Fasten the bonnet with spanner or similar tools.
- Fasten the bonnet of valve rod.
 Liquid side(3/8", 1/2"): 1180Nc m(120kgfcm)

gas side(5/8", 3/4"): 1180Nc m(120kgfcm)

Junction fixture

- Aim at connection pipe
 - fix the nut of connection pipe, then tighten]
 - as the following diagram with spanner

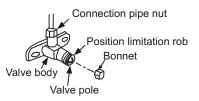
A Notice

• According to installation conditions, overlarge wrenched

torch will destroy the nut. (Unit. N.cm)

Outside	Stengthen to
diameter	fasten the torch
1/4 ″	1420~1720N cm (144~176kgf.cm)
3/8″	3270~3990N cm (333~407kgf.cm)
1/2″	4950~6030N cm (504~616kgf.cm)
5/8″	6180~7540N cm (630~770kgf.cm)
3/4 ″	9720~11860N cm (990~1210kgf.cm)





When vacuum pump is used, each low-pressure valve muse be manipulated as follow Please refer to operation manual for the usage of manifold valve.

1.Connect the recharged hose to lower pressure valve jucntion (low/high pressure valve must be tightened.)

2. Connect the charged hose junction with vacuum pump.

3.Open the low pressure handler of manifold fully.

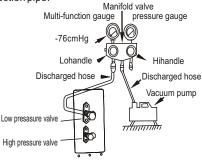
4. Start vacuumizing with vacuum pump. When vacuumizing begins, loosen the nut of low pressure valve a bit. Check is the air enters (noise of vacuum pump changes, the all-purpose meter indication changefrom negative to zero), then tighten the nut of connection pipe.

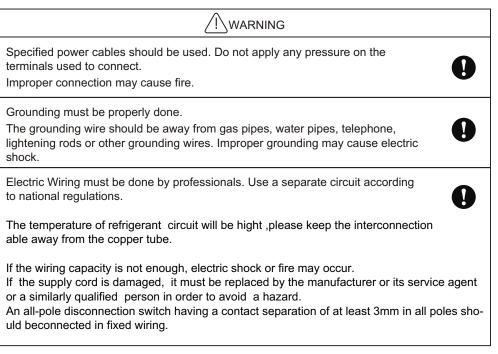
5.After vacuumizing finishing, tighten thelow pressure handler of manifoldvalve fully and stops the vacuum pump. When vacuumizing is carried out for over 15 minutes, please confirm if the all-purpose meter points at -1.0X10⁵ Pa(-76cmHg)_{\circ}

6.Open the high/low pressure valve fully.

7.Dismantle the recharged hose from charge gap of low pressure valve.

8.Tighten the bonnet of low-pressure valve.





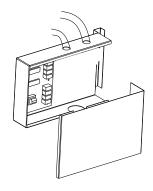


Be sure to Install Current Leakage Protection Switch. Or electric shock may occur.

- Power cord is to be selected according to national regulations.
- Outdoor unit power cord should be selected and connected according to the outdoor unit installation manual.
- Wiring should be away from high temperature components, or the insulation layer of the wires may melt down.
- Use wire clamp to fix the wires and terminal block after connection.
- Control wire should be wrapped together with heat insulated refrigerant pipes.
- Connect the indoor unit to power only after the refrigerant has been vacuumed.
- Don't connect the power wire to the signal wire connection end.

Notice
 Power cord indicates the supply cable from indoor air switch to indoor unit or outdoor unit. Indoor/outdoor power connecting wire indicates the supply cable connecting indoor unit and outdoor unit
Cross-section area of power cord wire is the minimum value here. In case power-connecting wire is longer than usual, just select the conductor cross-section a level higher than the specified one to avoid voltage drop.
3. The cross section of ground wire for the whole set of air conditioner should be 2 mm ² at least. Power cord connected to indoor unit should be cable RVV (300 / 500); the power cord connected to outdoor unit and the indoor/outdoor power connecting wire should be multi-wire strand cable (neoprene) YZW (300 / 500V).
4. In case single-core double-layer wire is adopted, its cross section should be one level bigger than the specified one, and the wire should be covered with dedicated electric sheath.

1. Wiring method for indoor unit: Open the electric junction box to carry out wire connection. Notice that the connecting wire should be passed through wire-inlet rubber ring of the box. Connect the wires according to stipulations in the wiring diagram, and the wire splices at connecting terminal should be tightly compacted, free of looseness.

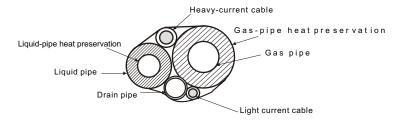


2. Binding treatment

Once the connecting wires have been properly connected, bind the connecting tubing, connecting wire and drain pipe by binding tapes

After binding treatment, the cross section is shown in the figure below:

Notice: Drain pipe must not be flattened during binding treatment.



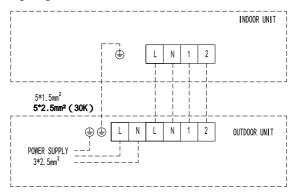
Drain pipe outlet should be led to a place that can avoid affecting the environment.

If situations as follow occur, please cut off the electric power before contacting the dealer

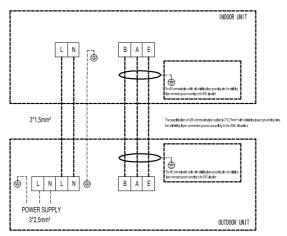
- open or close incorrectly fuse or electric leakage protector breaks for several times.
- Objects or water into the AC

3.External wiring diagrams

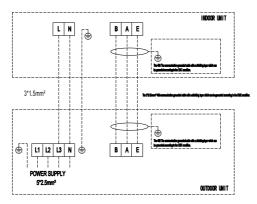
The following wiring diagram is foruse with 12/18/24/30K models.



The following wiring diagram is suitable for 36/42K single-phase models.



The following wiring diagram is suitable for 48/55K three-phase models.



4. Outdoor unit wiring

1. Copper-cored wire should be selected.

2. As the electric control box is inside the unit body, dismantle the valve installation cover, top cover right front board sequenly when connecting wires. Then connect the responding wires from the hole of the electric of the right back board.

3.Mate series number according to junction box of outdoor unit. (Disposed length of connection wire is good enough for inserting the connection pole completely as the right picture shows.)

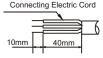
4. Wrap the electric wire(conductor), which is not inserted into the connection pole, with PVC belt and make it avoid any electric appliance or metal elements.

5. After installing cable connection lug on the main power wire, then connect to the terminal row.

6. Connection lug should be installed on the grounded wire of all cables.

Only finishing that all cables can be connected to grounded bolt.

- 7. The electric wire from wire terminal should be through wire clips.
- 8. Please refer to the right illustration.



(NOTICE)

The indoor unit should be connected correctly with the high-pressure and low-presurre stop valve of the outdoor unit as well as the signal line.Otherwise,some electrical componets and system may suffer damages.

TRY TEST

Before testing

a. Check if piping, drainage and external wiring have been finished correctly.

b. Check if the power supply complies with requirements; if there is refrigerant leakage; if the all wires and cables are correctly connected and well fixed.

Function test

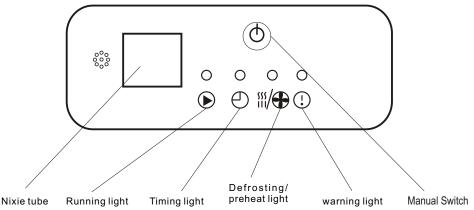
- a. After checking, energize your appliance and press the buttons on the control panel to see if the buttons function;
- b. If LCD screen displays normally.

Notes

- 1. Please read this operating and installation instructions carefully.
- 2. Do not let air in or refrigerant out during installing or reinstalling the appliance.
- 3. Test run the air conditioner after finishing installation and keep the record .
- 4. Type of fuse for controller of indoor unit is 50T, rated specification is T 5 A, 250V. Fuse for the whole unit is not supplied by the manufacturer, so the installer must employ a suitable fuse or other over-current protective device for the power supply circuit according to the maximum power input as required.
- 5. The air conditioner operates safely when ambient static pressure is 0.8~1.05 standard atmosphere pressure.

DISPLAY PANEL

1. Trouble display of indoor display panel



Display function declaration:

LED light the state of running light

When powered-on the first time, the running light twinkles, while the double-8 does not lit. When started-up normally, the running light lights on, while the double-8 shows the ambient temperature.

When operated normally, the running light lights on, while the double-8 shows the ambi ent temperature.

When closed down, both LED and double-8 are gone out.

LED light the state of Timing light

When timing set, the timing light lights on, and the double-8 flash shows the time setting within 5 seconds, then shows the ambient temperature.

When without time setting, the timing light gone out, while the double-8 back to theoriginal state.

LED light the state of defrosting/preheatlight

When in the state of defrost, oil return, cold-wind proof, the defrosting/preheat light lights on, while the double-8 shows the designed temperature. (One-driven-one does not show the oil return state).

When out of the state of defrost, oil return, cold-wind proof, the defrosting/preheat light gone out, while the double-8 shows the designed temperature. (One-drive-one does not show the oil return state).

LED light the state of warning light

When double-8 shows E* or P*, the running lights gone out, while the warning light lights on. 2. Trouble display of outdoor unit

- (1)During standby, the digital tube displays the numbers of indoor unit currently connected and communicating.
- (2)When the compressor operates, the digital tube displays the frequency value of the inverter compressor;
- (3)The digital tube displays "dxx" during defrosting;

The digital tube displays "Cxx" during oil return

(4)During trouble protection, the information code displayed by the digital tube is as follows:

TROUBLESHOOTING

E1	Indoor and outdoor communication failure		Protetion
		1	Hardware Error
	Indoor ambient temperature sensor failure	2	Hardware Error
E2	Indoor fanco il temperature sensor failure	3	Hardware Error
E3 0	Outdoor fancoil temperature sensor failure	4	Hardware Error
E4 /	Abnormal system malfunction (lack of fluorine)	5	Hardware Error
E5	Model configuration error	6	Hardware Error
E6	Indoor PG/DC fan failure	7	Hardware Error
E7	Outdoor ambient temperature sensor failure	8	Hardware Error
E8	Outdoor exhaust temperature sensor failure	9	Hardware Error
E9 9	Outdoor IPM modulefailure/compressor drive failure	10	Hardware Error
EA d	Outdoor current sensorfailure	11	Hardware Error
Eb	PCB and displayscreen communication Failure	12	Hardware Error
EC (Outdoor modules Communication failure	13	Hardware Error
EE (Outdoor EEPROM fault	14	Hardware Error
EF	Outdoor DC fan failure	15	Hardware Error
EH	Outdoor suction sensorfailure	16	Hardware Error
EP (Outdoor compressor casing top failure	17	Hardware Error
EU	Outdoor voltage sensorfailure	18	Hardware Error
Ej	Outdoor central coiltemperature sensor failure	30	Hardware Error
En	Outdoor air pipe temperature sensor failure	31	Hardware Error
Ey	Outdoor liquid pipe temperature sensor failure	32	Hardware Error
P0	IPM module protection	19	Others Error
P1	Overvoltage and undervoltage protection	20	Others Error
P2	Overcurrent protection	21	Others Error
P3	Other protections	22	Others Error
P4	Protection against excessive outdoorexhaust temperature	23	Others Error
P5	Cooling protection against overcooling	24	Others Error
	Cooling and antioverheating protection	25	Others Error
P7	Heating and antioverheating protection	26	Others Error
P8	Protection against highor low outdoortemperature	27	Remote control display adjustment
P9	Compressor drive protection (abnormal load)	28	Others Error
PA	Communication failure/mode conflict	29	Others Error
F0	Infrared human sensingsensor failure	33	Remote control display adjustment

Error Code			Error Definition and Protetion	
F1	Battery module failure	34	Remote control display adjustment	
F2	Exhaust temperature sensorfailure protection	35	Others Error	
F3	Failure protection of outer tube temperature sensor	36	Others Error	
F4	Abnormal protection of refrigerant circulation	37	37 Others Error	
F5	PFC protection	38	Others Error	
F6	Compressor missing/reverse phaseprotection	39	Others Error	
F7	Module temperature protection	40	Others Error	
F8	Abnormal commutation of four-way valve	41	Others Error	
F9	Module temperature sensor circuit malfunction	42	Hardware Error	
FA	Compressor phase current detection fault	43	Hardware Error	
Fb	Cooling and heating overload protection limit frequency reduction	44	Remote control display adjustment	
FC	High power protection limit/frequency reduction	45	Remote control display adjustment	
FE	Module current (compressorphase current) protection limit/frequency reduction	46	Remote control display adjustment	
FF	Module temperature protection limit/ frequency reduction	47	Remote control display adjustment	
FH	Drive protection limit/frequency reduction	48	Remote control display adjustment	
FP	Anti condensation protection limit/frequency reduction	49	Remote control display adjustment	
FU	Anti freezing protection limit/frequency reduction	50	Remote control display adjustment	
Fj	Exhaust protection limit/frequency reduction	51	Remote control display adjustment	
Fn	External AC current protection limit/frequency reduction	52	Remote control display adjustment	
Fy	Fluorine deficiency protection	53	Others Error	
H1	High pressure switch malfunction	54	Hardware Error	
H2	Low pressure switch malfunction	55	Hardware Error	
bf	TVOC sensor failure	56	Remote control display adjustment	
bc	PM2.5 sensor failure	57	Remote control display adjustment	
bj	Humidity sensor failure	58	Remote control display adjustment	
bE	CO2 sensor malfunction	59	Hardware Error	
bd	Fresh air fanfailure	60	Hardware Error	
d4	Water full protection	61	Others Error	
d5	Access control protection	62	Hardware Error	

REFRIGERANT NOTICE/CONCENTRATION

This air conditioner uses R32 refrigerant. The construction area for installation, operation and storage of the air conditioner must be larger than the minimum construction area. The minimum area for installation is determined by:

1.Refrigerant charging quantity for the entire system (ex-factory charging quantity + additional charging quantity);

2.Checking out in the applicable tables:

(1) For indoor unit, confirm the model of indoor unit and check the corresponding table.

(2) For outdoor unit that is installed or placed indoors, select the corresponding table according to the height of the room.

Height of the room	Select the applicable table		
<1.8m	Floor standing type		
≥1.8m	Wall mounted type		

3.Refer to the following table to check out the minimum construction area.

Ceiling type		Wall mounted type		Floor standing type	
Weight (kg)	Area (m ²)	Weight (kg)	Area (m ²)	Weight (kg)	Area (m ²)
<1.224	_	<1.224	_	<1.224	_
1.224	0.956	1.224	1.43	1.224	12.9
1.4	1.25	1.4	1.87	1.4	16.8
1.6	1.63	1.6	2.44	1.6	22.0
1.8	2.07	1.8	3.09	1.8	27.8
2.0	2.55	2.0	3.81	2.0	34.3
2.2	3.09	2.2	4.61	2.2	41.5
2.4	3.68	2.4	5.49	2.4	49.4
2.6	4.31	2.6	6.44	2.6	58.0
2.8	5.00	2.8	7.47	2.8	67.3
3.0	5.74	3.0	8.58	3.0	77.2
3.2	6.54	3.2	9.76	3.2	87.9
3.4	7.38	3.4	11.0	3.4	99.2
3.6	8.27	3.6	12.4	3.6	111
3.8	9.22	3.8	13.8	3.8	124
4.0	10.2	4.0	15.3	4.0	137
4.2	11.3	4.2	16.8	4.2	151
4.4	12.4	4.4	18.5	4.4	166
4.6	13.5	4.6	20.2	4.6	182
4.8	14.7	4.8	22.0	4.8	198
5.0	16.0	5.0	23.8	5.0	215
5.2	17.3	5.2	25.8	5.2	232
5.4	18.6	5.4	27.8	5.4	250
5.6	20.0	5.6	29.9	5.6	269
5.8	21.5	5.8	32.1	5.8	289
6.0	23.0	6.0	34.3	6.0	309
6.2	24.5	6.2	36.6	6.2	330
6.4	26.1	6.4	39.1	6.4	351
6.6	27.8	6.6	41.5	6.6	374
6.8	29.5	6.8	44.1	6.8	397
7.0	31.3	7.0	46.7	7.0	420
7.2	33.1	7.2	49.4	7.2	445
7.4	34.9	7.4	52.2	7.4	470
7.6	36.9	7.6	55.1	7.6	496
7.8	38.8	7.8	58.0	7.8	522
8.0	40.8	8.0	61.0	8.0	549