

▲ CAUTION

- All units must be installed by a licensed contractor or technician. Ф
- Installation must be in accordance with this manual,NEC,State and Local Codes. Otherwise unit warranty will be void and serious damage to person and/or property may \oplus occur
- ф Read all instruction manuals thoroughly before attempting installation.
- The Manufacturer shall NOT be liable for any damages or loss due to improper installation or operation or natural disasters. Ф
- Do not power the unit until all wiring, refrigerant tubing and refrigerant charging has been checked and tested.
- Units must be grounded per current NEC.State and Local Codes.
- Wiring connections must be tightly secured to all terminals.Loose connections can result in electrical arcing,overheating and potential fire hazards. Ф
- ф For remote control, Do not mix old and new batteries. Do not mix Alkaline, standard (Carbon - Zinc), or rechargeable (Nickel - Cadmium) batteries.

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Preparation Before Use

Before using the air conditioner, be sure to check and pre-set the following.

Remote Controller Pre-setting

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The remote controller is NOT preset and should be set by owner.
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Each time after the remote Control batteries are replaced, or is energized, the symbol will flash from "Cool" and "HEAT" alternatively.

User can preset the remote control type depending on the air conditioner type you have purchased as follows :

Press any button when the heating symbol flashes ,then Heat Pump is set. Press any button when the cooling symbol flashes ,then Cooling Only is set. If you dont press any button within 10 seconds, the remote controller is pre-set as Heat Pump automatically.

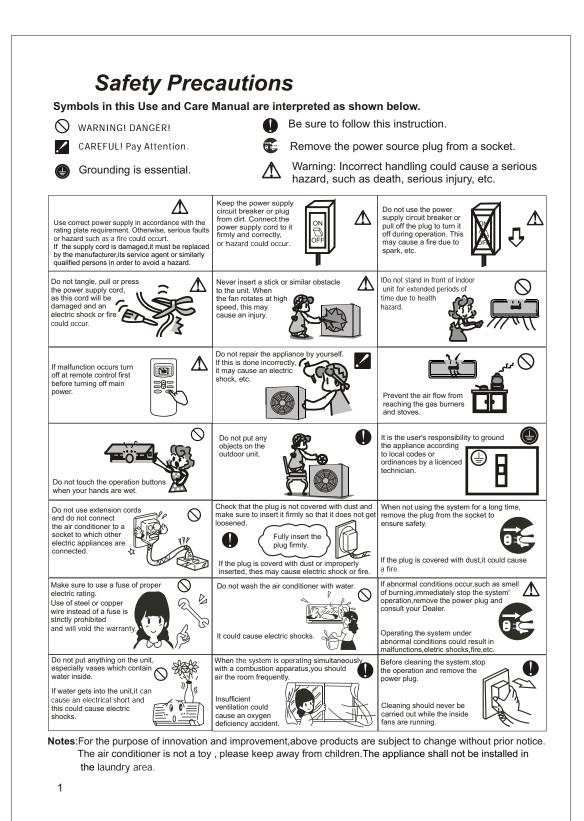
Note: If the air conditioner you purchased is a Cooling Only one, but you pre-set the remote controller as Heat Pump, it will operate properly in cooling.. But if the air conditioner you purchased is a Heat Pump one, and you preset the real controller as Cooling Only, then you CAN NOT preset the Heating operation with the remote controller

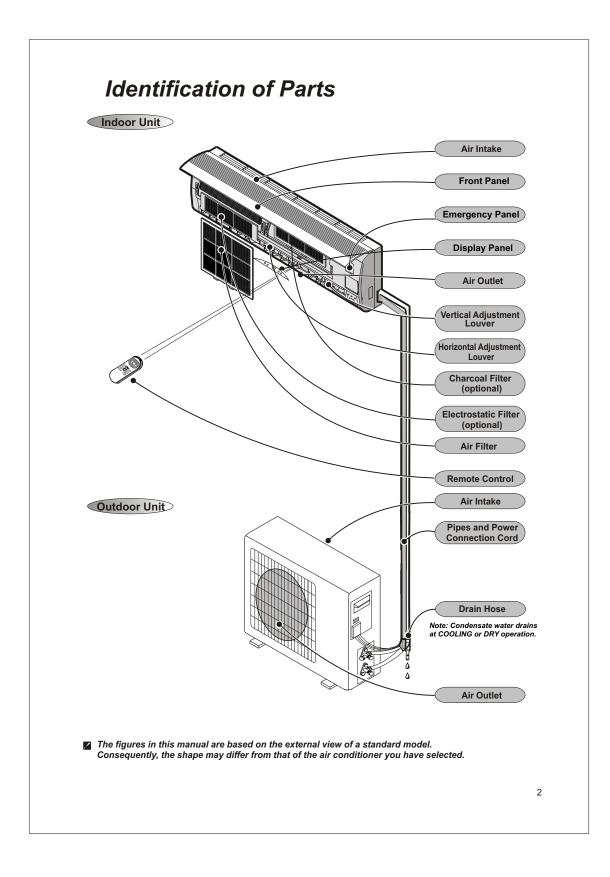
Auto-restart Pre-setting(optional):

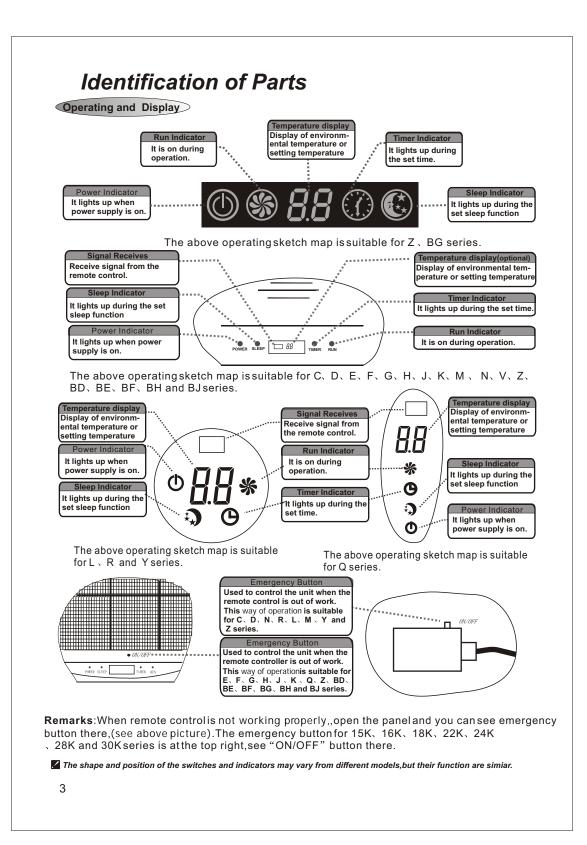
the air conditioner is preset as Auto-restart function by manufacturer. If Auto-restart function is not needed, follow the steps below to cancel this function:

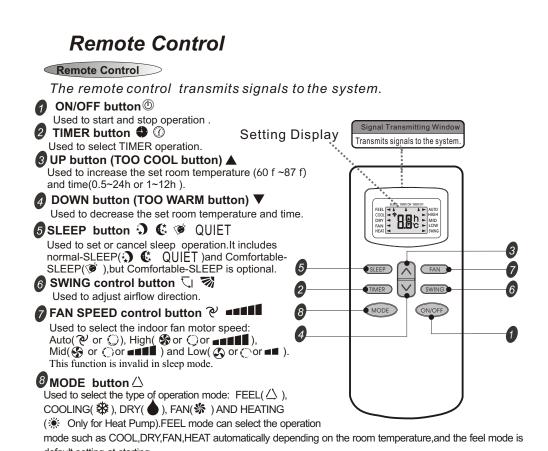
- 1) Make sure the air conditioner power is turned off at remote control.
- 2) Keep pressing the Emergency button for more than 10 seconds until four short beeps are heard.
- Then Auto-restart function is disabled. To activate the Auto-restart function, repeat above procedure until three short beeps are heard.

--This air conditioner is not intended for use by young children or handicapped persons unless they have been adequately supervised by a responsible person to ensure that they can use the air conditioner safely --Young children should be supervised to ensure that they do not play with the air conditioner.





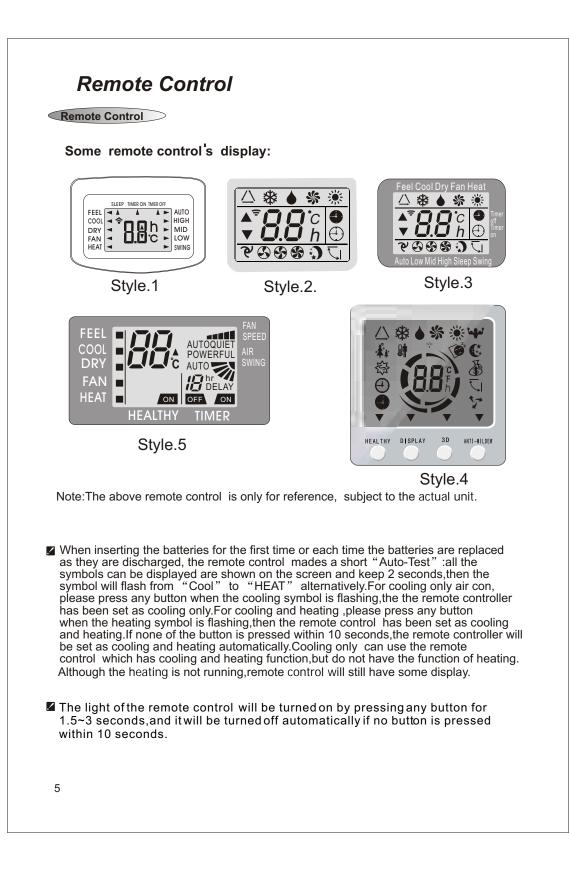




default setting at starting.

Check list

Species	Quantity
Expending sleeve style	6
Self tapping screw	6
User manual	1
AAA battery	2
Drainage pipe	1
Remote control&base	1
Energy label	1
Sleeve pipe	1
Seal daub	1
Binder	1
Screw assembly	1



Remote Control

Remote Control

How to Insert the Batteries

Remove the battery cover according to the arrow direction. Insert new batteries making sure that the (+) and (-) of battery are matched correctly. Re-attach the cover by sliding it back into position.

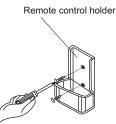
Note:

Use 2 LR03 AAA(1.5volt) batteries. Do not use rechargeable batteries.Replace batteries with new ones of the same type when the display becomes dim.

Storage and Tips for Using the Remote Control

The remote control may be mounted on a wall with a holder.

Note: The remote control holder is an optional part.





1

2

3

Please slide and remove the cover.

Exchange the batteries.

Install the cover.

Signal receptor

Slide the cover upwardly in the direction of the

Attention to the \ominus and \oplus

marks

arrow

How to Use

To operate the room air conditioner, aim the remote control to the signal receptor. The remote control will operate the air conditioner at a distance of up to 10 feet when pointing at signal receptor of indoor unit.

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Operation Instructions FEEL mode operation procedure Operates by selecting automatically the operation mode(HEAT,DRY,FAN,COOL)depending on the room temperature during staring. With the remote control pointing toward the air conditioner. Turning on Press ONOFF button, when the appliance receives the signal, the RUN indicator of the indoor unit lights up. When the unit is not at FEEL mode. Selecting FEEL mod Press the MODE select button. Move the MODE to the FEEL position. Operation mode and temperature are determined by indoor temperature 2 Indoor temperature Operation mode Target temperature HEATING (FOR HEAT PUMP TYPE) 73 f Less than 68 f FAN (FOR COOL ONLY TYPE) 68 f - 79 f DRY 64 f Over 79 f COOL 73 f Air temperature adjustment is possible even during FEEL operation. There are 4 levels of adjustment possible with the • button or the V button. Setting temperature Press the \checkmark button or the \checkmark button. When the A button is pushed, the temperature will increase 1 f After temperature will increase 2 f, the indicator will not change. 3 When the v button is pushed, the temperature will reduce 1 f After temperature reduce 2 f ,the indicator will not change. The operation of the AUTO mode can be performed by only pressing the ON/OFF There will be a delay when changing mode button from the next time is made during the operation. As there might not be air blown out. · If you don't like the content of FEEL mode operation, change to HEATING, DRY or COOLING than FEEL. 7

Operation Instructions

TIMER mode

It is convenient to set the timer on with **TIMER** button when you go out in the morning to achieve a comfortable room temperature when you get home. You can also set timer off at night to enjoy a good sleep.

Timer-setting

Press UP and DOWN button to set time.

When the Remote Control is OFF,press the TIMER button to set a switch-on timer,press again,the setting will be cancel.

Time setting is 30-minutes.

When the Remote Control is ON,press the TIMER button to set a switch-on timer, press again,the setting will be cancel.

FAN SUPER BLEEP NODE THER BLEEP NODE THER BLEEP NODE THER BLEEP NODE

Note: After setting the timer, check that TIMER INDICATOR lamp of the indoor unit lights.

SLEEP mode

1. Normal-SLEEP& Comfortable-SLEEP(optional)

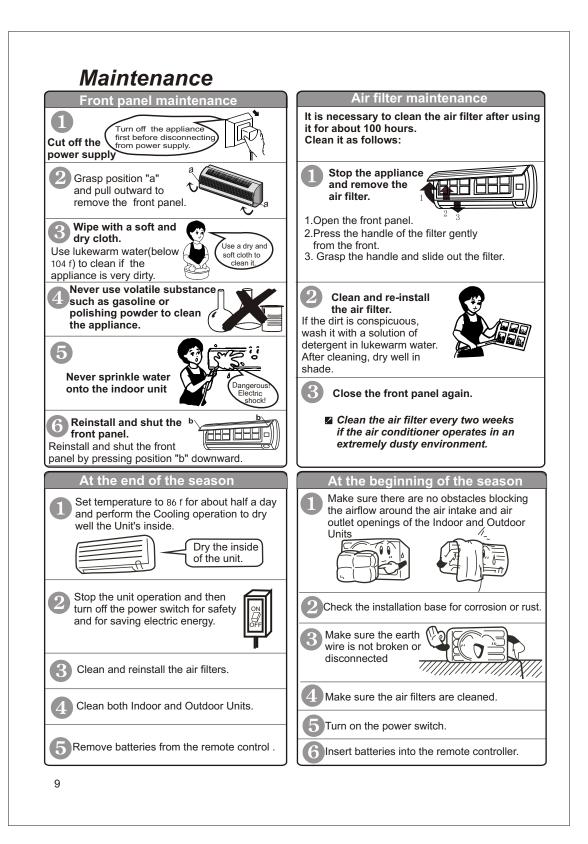
Having press the SLEEP button for 3 seconds, SLEEP operation is switched from Normal-SLEEP to Comfortable-SLEEP alternatively. Used to set or cancel sleep operation. This function is invalid in fan and dehumidify mode, This function is invalid in SUPER mode too. Switches OFF the appliance automatically after 10 hours in Normal-SLEEP mode.

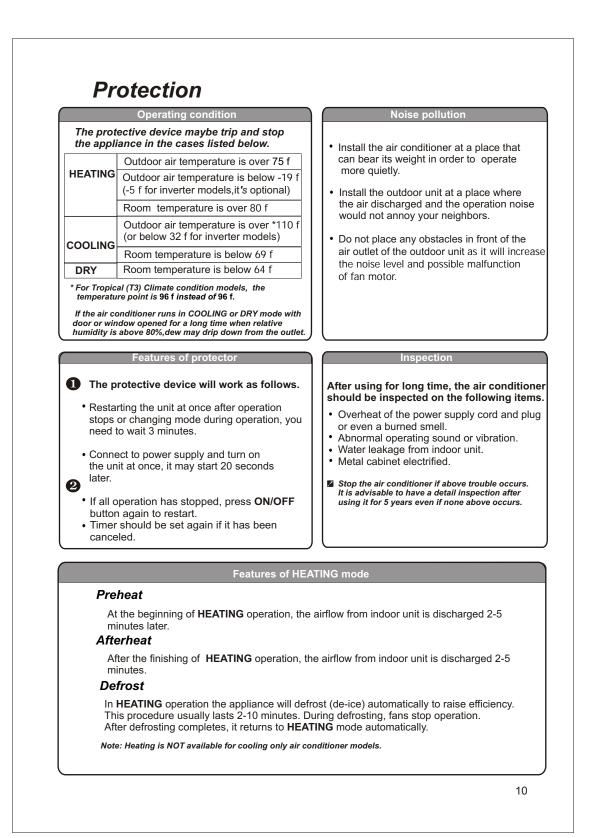
2. Normal-SLEEP only

While the unit is running,. Select the operating mode and then press SLEEP button: the indoor fan speed operates at low speed. Switches OFF the appliance automatically after 8 hours.

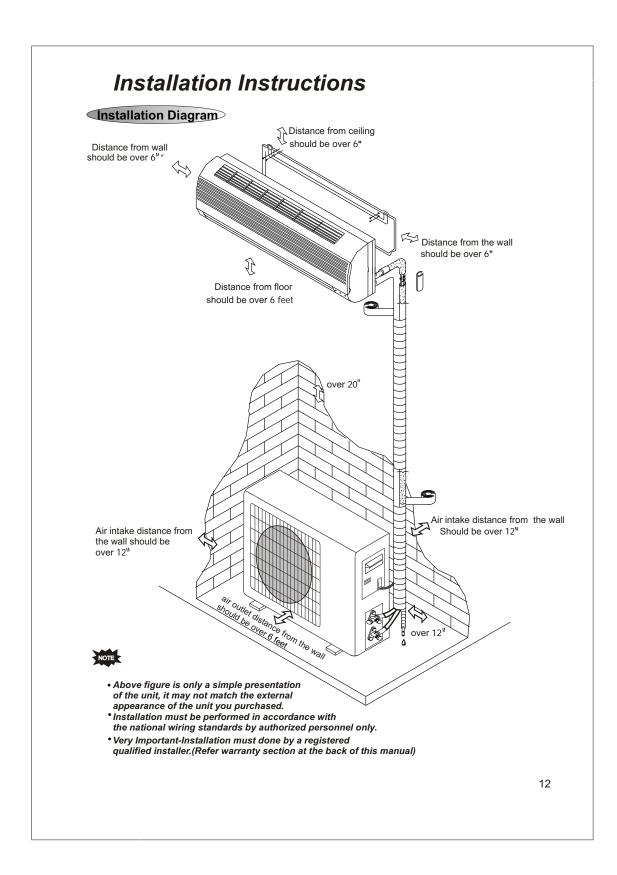
Comfortable-SLEEP note:

In this model, the temperature will automatically be adjusted with the body temperature, like the english letter "V", at the first stage of sleep, the body temperature will decrease when our air-conditioner's set-temperature decrease together; and at the last stage of sleep, the body temperature will increase when our air-conditioner's set-temperature increase together. It will help you sleep more comfortably.





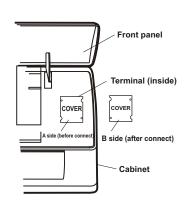
	r not always be a n	nalfunction, please check it before asking for service
Trouble		Analysis If the plug is not properly plugged.
Does not run		 If batteries in the remote controller exhausted. If the protective device works to protect the appliance If the protector trip or fuse is blown.
No cooling or heating air		 Are the intakes and outlets of the air conditioner blocked? Is the temperature set properly?
° 4	Ľ	Is the air filter dirty?
Ineffective control		 If strong interference(from excessive static electricity discharge, power supply voltage abnormality)presents, operation will be abnormal. At this time, disconnect from the power supply and connect back 2-3 seconds lat
Does not operate immediately	don't run	Changing mode during operation, 3 minutes will delay.
Peculiar odor		• This odor may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air.
A sound of flowing water		 Caused by the flow of refrigerant in the air conditioner, not a problem. Defrosting sound in heating mode.
Cracking sound is heard		• The sound may be generated by the expansion or contraction of the front panel due to change of temperature.
Spray mist from the outlet		 Mist appears when the room air becomes very cold because of cool air discharged from indoor unit during COOLING or DRY operation mode.
The compressor indicate constantly, and indoor fa		• The unit is shifting from heating mode to defrost. The indicator will lights go off within ten minutes and returns to heating mode.
Air will not immediately blow out at the start of H	EAT mode	 The air conditioner is ready to blow out enough warn air please wait(2~5 minutes)
Stop discharging airflow for 5~10minutes during HEATING operatio	n (bont discharge)	• The appliance will defrost automatically ,and mist appears from outdoor.After defrosting ,it continues to run automatically.
The remote control		 check the distance between the remote controlle and the unit. Are the batteries exhausted? Replace them with new ones, and repeat the operation again.



Connecting of the Cabble

Wiring between the indoor and outdoor units:

- 1) Remove the PCB cover from the indoor unit;
- 2) Refer to the wiring diagram attached to indoor unit
- when connecting cords to indoor unit terminals; 3) Reinstall the PCB cover. Be sure that side ${f B}$
- is facing outside.



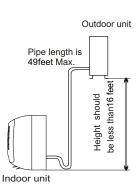
Select the best location

Location for Installing Indoor Unit

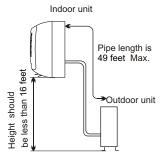
- Where there is no obstacle near the air outlet and air can be easily blown to every corner.
- Where piping and wall hole can be easily arranged.
- Keep the required space from the unit to the ceiling and wall according to the wiring diagram.
- Where the air filter can be easily removed.
- Keep the unit and remote control 3 feet or more apart from • television, radio etc.
- Keep as far as possible away from fluorescent lamps. Do not put anything near the air inlet to obstruct it from air
 absorption.
- Where there is bearing wall to handle weight and decrease vibration and noise.

Location for Installing Outdoor Unit

- Where it is convenient to install and well ventilated; avoid installing it where flammable gas could leak.
- Keep the required distance apart from the wall.
- Keep the outdoor unit away from a place of greasy dirt, vulcanization gas exit or high salty seashore.
- Avoid installing it at the roadside where there is a risk of muddy water.
- A fixed base so as not to increasing operation noise. Where there is no blockage for air outlet.



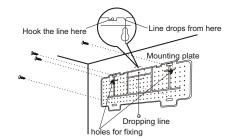
Installation Diagram



Indoor Unit Installation

1. Installing the Mounting Plate

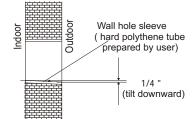
- Decide an installing location for the mounting plate according to the indoor unit location and piping direction.
- Keep the mounting plate horizontally with a horizontal ruler or dropping line.
- Drill holes of 1" in depth on the wall for fixing the plate.
- Insert the plastic plugs to the hole, fix the mounting plate with tapping screws.
- Inspect if the mounting plate is well fixed. Then drill a hole for piping.



Note: The shape of your mounting plate may be different from the one above, but installation method is similar.

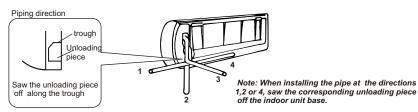
2. Drill a Hole for Piping

- Decide the position of hole for piping according to the location of mounting plate.
- Drill a hole on the wall. The hole should tilt a little downward toward outside.
- Install a sleeve through the wall hole to keep the wall tidy and clean.

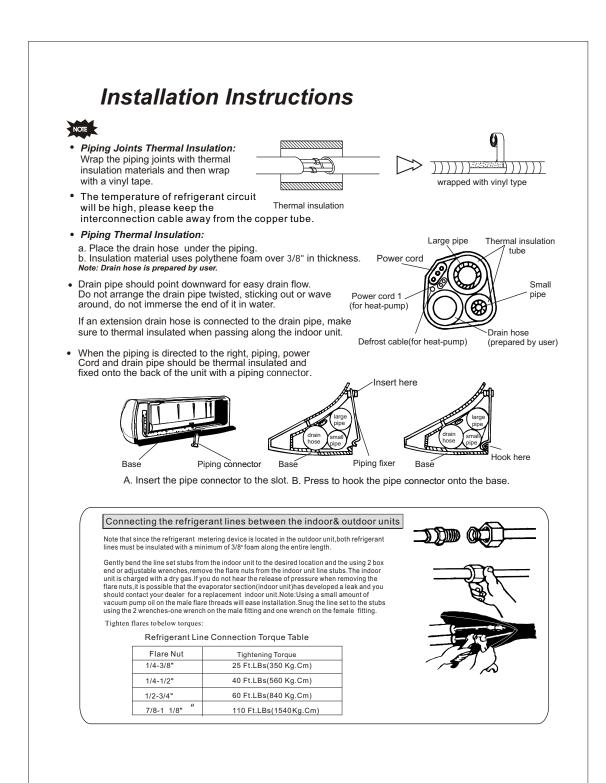


3. Indoor Unit Piping Installation

- Put the piping (liquid and suction pipe) and cables through the wall hole from outside or put them through from inside after indoor piping and cables connection complete so as to connect to outdoor unit.
- Decide whether saw the unloading piece off in accordance with the piping direction.(as shown below)



• After connecting piping as required, install the drain hose. Then connect the power cords. After connecting, wrap the piping, cords and drain hose together with thermal insulation materials.



4. Connecting of the Cable

Indoor Unit

Connect the power connecting cord to the indoor unit by connecting the wires to the terminals on the control board individually in accordance with the outdoor unit connection.

Note: For some models, it is necessary to remove the cabinet to connect to indoor unit terminal.

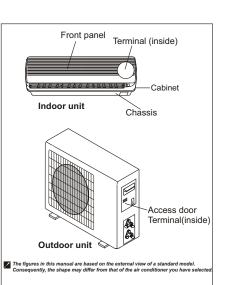
Outdoor Unit

1). Remove the access door from the unit by loosening the screw. Connect the wires to the terminals on the control board individually as the following.

2). Secure the power connecting cord onto the control board with cable clamp.

3). Reinstall the access door to the original position with the screw.

4) Use a recognized circuit breaker for 24K.30K model between the power source and the unit. A disconnecting device to adequately disconnect all supply lines must be fitted.



Caution: 1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, refer to the circuit diagram posted on the inside of the access door .

2.Comfirm that the cable thickness is as specified in the power source specification. (See the cable specification table below)

3. Check the wires and make sure that they are all tightly fastened after cable connection. 4. Be sure to install an earth leakage circuit breaker in wet or moist area.

Circuit	Wire Gauge at Different Wire Lengths			
Amp	200ft	150ft	100ft	50ft
15	6	8	10	14
20	4	6	8	12
25	4	6	8	10
30	4	4	6	10
35	3	4	6	8
40	3	4	6	8
45	2	3	4	6
50	2	3	4	6

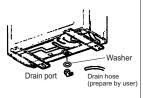
Wire Gauge Requirements

(Nec,105c/221 F Type Copper Conductors)

Outdoor Unit Installation

1.Install Drain Port and Drain Hose (for heat-pump model only)

The condensate drains from the outdoor unit when the unit operates in heating mode. In order to protect the environment, install a drain port and a drain hose to direct the condensate water. Just install the drain port and rubber washer to the chassis of the outdoor unit, then connect a drain hose to the port as the right figure shown.



2. Install and Fix Outdoor Unit

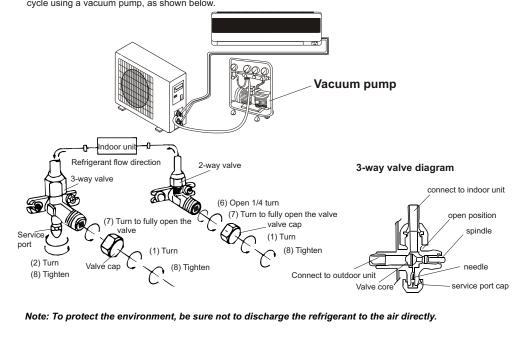
Fix with bolts and nuts tightly on a flat and strong floor. If installed on the wall or roof, make sure to fix the supporter well to prevent it from shaking due to serious vibration or strong wind.

3. Outdoor Unit Piping Connection

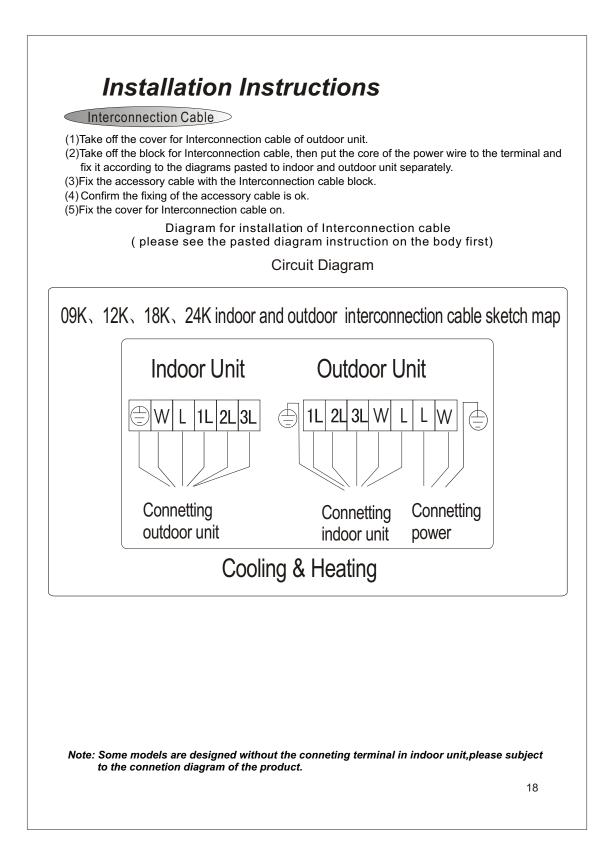
- Remove the valve caps from the 2-way and 3-way valve.
- Connect the pipes to the 2-way and 3-way valves separately according to the required torque.
- 4. Outdoor Unit Cable Connection (see previous page)

Air Purging

The air which contains moisture remaining in the refrigeration cycle may cause a malfunction on the compressor. After connecting the indoor and outdoor units, evacuate air and moisture from refrigerant cycle using a vacuum pump, as shown below.



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How to Purge Air Tubes

- (1). Unscrew and remove caps from 2 and 3-way valves.
- (2). Unscrew and remove cap from service valve.
- (3). Connect vacuum pump flexible hose to the service valve.
- (4). Start vacuum pump for 10-15 minutes until reaching a vacuum of 30" Hg absolutes.
- (5). With vacuum pump still running close the low pressure knob on vacuum pump manifold. Then stop vacuum pump.
- (6). Open 2-way valve 1/4 turn then close it after 10 seconds. Check tightness of all joints using liquid soap or an electronic leak detector.
- (7). Turn 2 and 3-way valves stem to fully the valves. Disconnect vacuum pump flexible hose.
- (8). Replace and tighten all valve caps.

Test Running

- Connect to the power source, check if the function selection keys on the remote controller are working properly.
- •Check if the room temperature adjustments and timer settings are working properly.
- •Check if the drain is open.
- •Check if there is any abnormal noise or vibration during operation.
- •Check if there is leakage of refrigerant.

ATTENTION:

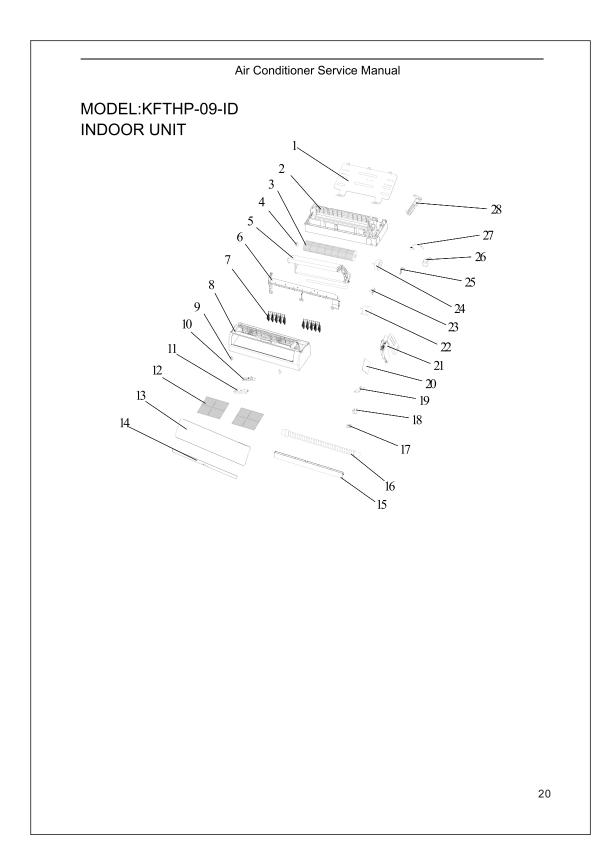
If there is no power plug along with the air conditioner, The power cord should be connected to an air switch ,whose current carrying capacity should be more than 20A and the minimum open-circuit distance among the live polar pole, the neutral polar pole and the ground polar pole should be more than 1". If any malfuctions, please cut off the supply by the air switch and contact the manufacturer or its service agent.

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

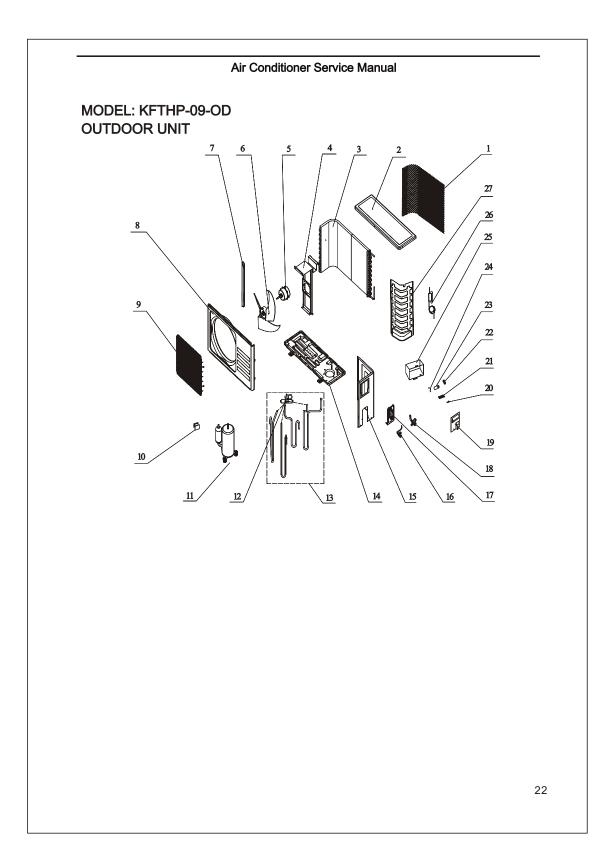
If the supply cord is damaged. It is better to be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

NOTE

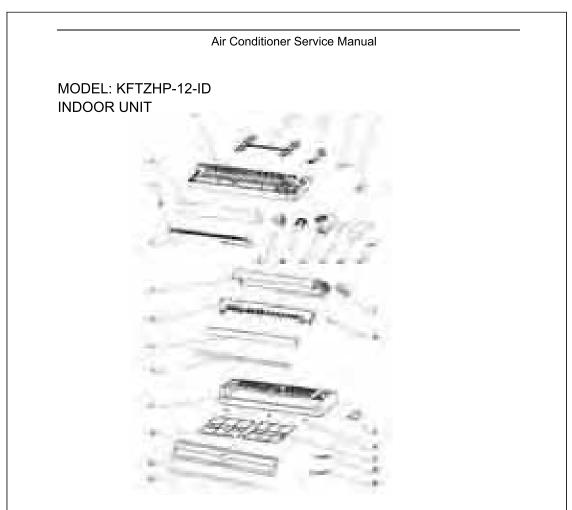
- Please read this manual before installing and using it.
- Do not let air enter the refrigeration system or discharge refrigerant when moving the air conditioner.
- Test run the air conditioner after finishing installation, and record details of operation.
- Type of fuse used on indoor unit controller for 7K,9K,12K 15K,16K,18K, 22K,24K,30K is 50T with rating 3.15 A,250V;Type of fuse used on inverter outdoor unit controller for 7K,9K,12K is 61T with rating 15 A,250V,for 18K,22K,24K is 65TS with rating 25A,250V.
- The fuse for the whole unit is to be provided by the user according to the current at maximum power input or use other over-current protective device instead.
- Accessibility to the plug must be guaranteed even after the installation of the appliance to disconnect it in case of need. If not possible, connect appliance to a double-pole switching device with contact separation of at least 1 " placed in an accessible position even after installation.
- Please make replacing with the special assembly purchasing from our factory or our service center if something wrong with Interconnection cable.
- The security out static air pressure for our products is 0.8-1.05 * standard pressure.
- The biggest length for our connection pipe can be 49 feet. More refrigerant is necessary for per foot if the length is over 21 feet.
- Please do not place valuable things under the unit after installation.



No.	Part No.	Part Name	Q'ty	Remark
1	1080030021	Installation Plate	1	
2	1070350170	Base	1	
3	1070020029	Cross Fan	1	
4	1070100010	Bearing Mount	1	
5	1110050332	Evaporator	1	
6	1070350171	Water Drainage Assembly	1	
7	1070350175	Vertical Vane Assembly	14	
8	1070350213	Face Frame	1	
9	1070350183	Screw Cover	2	
10	1070320696	Display PCB	1	
11	1070350178	Display PCB Box	1	
12	1070300010	Air Filter	2	
13	1070350503	Front Panel	1	
14	1070350223	Display PCB Cover	1	
15	1070350174	Vane	1	
16	1070110011	Drainage Hose	1	
17	1070040004	Cable Clamp	1	
18	1170200041	Terminal	1	
19	1070250109	Terminal Fixing Board	1	
20	1090350174	Main PCB	1	
21	1070350179	Electrical Box	1	
22	1170020011	Vane Motor	1	
23	1073010501	Sensor Holder	1	
24	1170040070	Indoor Motor	1	
25	1070320111	Indoor Motor Cover	1	
26	1170240004	Transformer	1	
27	1170230001	Indoor Sensor Assembly	1	
28	1070350169	In And Out Pipe Fixer	1	
29	1090050347	Remote Controller	1	
30	1070060003	Remote Controller Supporter	1	1
31	1190130455	Indoor Carton	1	1
32	1190060103	Left Foaming	1	1
33	1190060104	Right Foaming	1	1

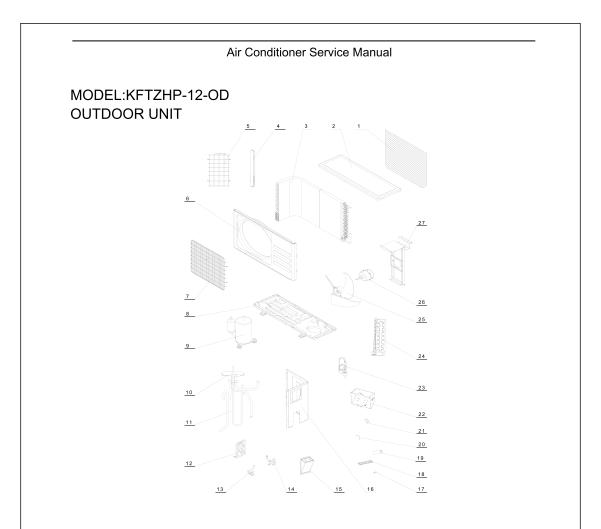


No.	Part No.	Part Name	Q'ty	Remark
1	1071990040	Grille	1	
2	1080050031	Top Cover	1	
3	1110060867	Condenser	1	
4	1080050004	Outdoor Motor Supporter	1	
5	1170040072	Outdoor Motor	1	
6	1070030033	Propeller Fan	1	
7	1080050028	Left Grille Supporter	1	
8	1080050032	Front Plate	1	
9	1080320112	Fan Guard	1	
10	1170150010	AC Contactor	1	
11	1100030065	Compressor And It Accessories	1	
12	1120251697	4-way Valve	1	
13	1120251696	4-way Valve Assembly	1	
14	1210250136	Base	1	
15	1080050029	Right Plate	1	
16	1120120021	Two-way Valve	1	
17	1080050030	Valve Supporter	1	
18	1120130036	Three-way Valve	1	
19	1081990107	Electrical Box Cover	1	
20	1074060118	Cable Clamp	1	
21	1170200054	Terminal	1	
22	1170100034	Fan Motor Capacitor	1	
23	1170100022	Compressor Capacitor	1	
24	1080010006	Capacitor Strip	1	
25	1300350813	Electrical Parts Box	1	
26	1120251701	Capillary Assembly	1	
27	1080170001	Partition plate	1	
28	1174561802	Outdoor sensor	1	
29	1190070020	Base Carton	1	
30	1190130456	Cabinet Carton	1	
31	1190070022	Base Foaming	1	
32	1190070021	Cover Forming	1	



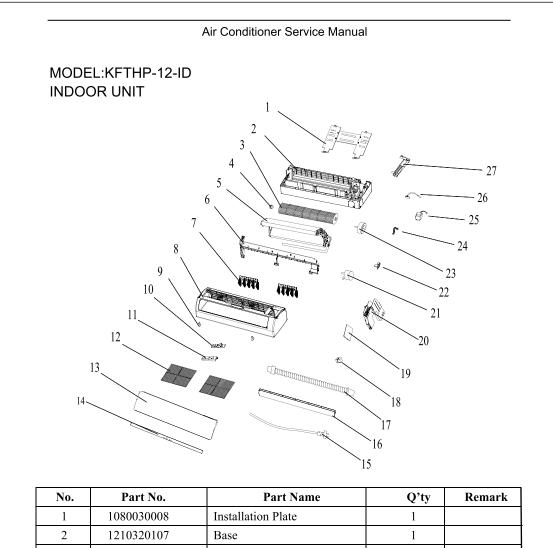
No.	Part No.	Part Name	Q'ty	Remark
1	1170240001	Transformer	1	
2	1170230001	Indoor Sensor Assembly	1	
3	1070350245	In And Out Pipe Fixer	1	
4	1080030021	Installation Plate	1	
5	1070350243	Base	1	
6	1070020024	Cross Fan	1	

7	1070100010	Bearing Mount	1	
8	1090020030	Heater	1	
9	1170030065	Indoor Motor	1	
10	1070350152	Indoor Motor Cover	1	
11	1070350119	Electrical Box	1	
12	1090500224	Main PCB	1	
13	1070350235	Electrical Box Cover	1	
	1070040005	Cable Clamp Base	1	
14 -	1070040006	Cable Clamp Cover	1	
15	1110050903	Evaporator	1	
16	1070350137	Water Drainage Assembly	12	
17	1070350140	Vane	1	
18	1070110011	Drainage Hose	1	
19	1070350155	Evaporator Fastness Clamp	1	
20	1170020011	Vane Motor	1	
21	1070500250	Face Frame	1	
22	1070190012	Left Air Filter	1	
23	1070450115	Front Panel	1	
24	1071990048	Display PCB Cover	1	
25	1070500246	Servicing Cover	1	
26	1070350135	Screw Cover	3	
27	1070190013	Right Air Filter	1	
28	1090500118	Display PCB	1	
29	1070250425	Display PCB Box	1	
30	1090050318	Remote Controller	1	
	1070060003	Remote Controller Supporter	1	
32	1190470001	Indoor Carton	1	
33	1190060054	Left Foaming	1	
34	1190060055	Right Foaming	1	



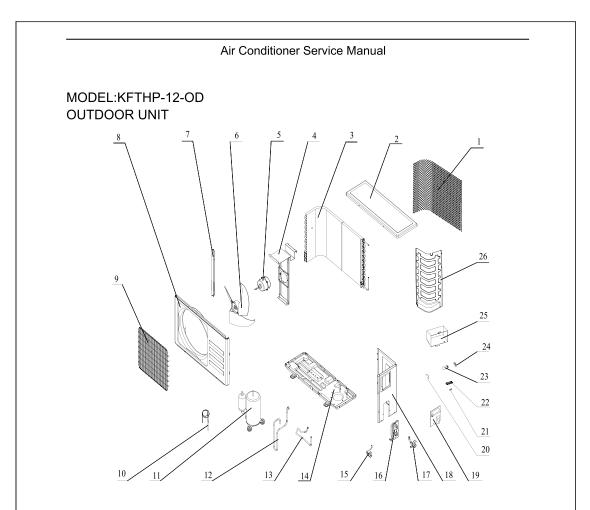
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7	1070100010	Bearing Mount	1	
8	1090020030	Heater	1	
9	1170030065	Indoor Motor	1	
10	1070350152	Indoor Motor Cover	1	
11	1070350119	Electrical Box	1	
12	1090500224	Main PCB	1	
13	1070350235	Electrical Box Cover	1	
14	1070040005	Cable Clamp Base	1	
14 –	1070040006	Cable Clamp Cover	1	
15	1110050903	Evaporator	1	
16	1070350137	Water Drainage Assembly	12	
17	1070350140	Vane	1	
18	1070110011	Drainage Hose	1	
19	1070350155	Evaporator Fastness Clamp	1	
20	1170020011	Vane Motor	1	
21	1070500250	Face Frame	1	
22	1070190012	Left Air Filter	1	
23	1070450115	Front Panel	1	
24	1071990048	Display PCB Cover	1	
25	1070500246	Servicing Cover	1	
26	1070350135	Screw Cover	3	
27	1070190013	Right Air Filter	1	
28	1090500118	Display PCB	1	
29	1070250425	Display PCB Box	1	
30	1090050318	Remote Controller	1	
31	1070060003	Remote Controller Supporter	1	
32	1190470001	Indoor Carton	1	
33	1190060054	Left Foaming	1	
34	1190060055	Right Foaming	1	



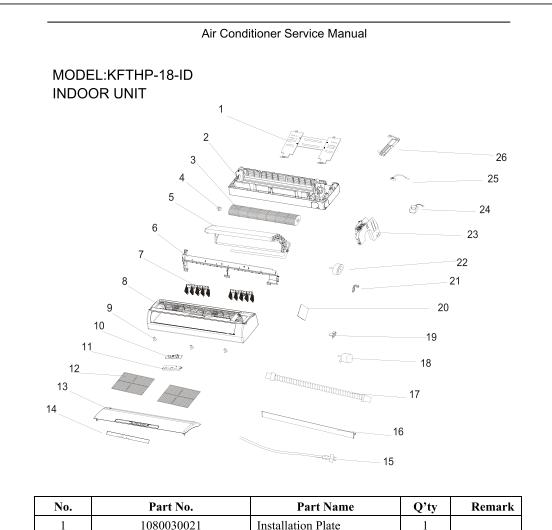
1080030008	Installation Plate	1	
1210320107	Base	1	
1070020026	Cross Fan	1	
1070100010	Bearing Mount	1	
1210320601	Evaporator	1	
1210320108	Water Drainage Assembly	1	
1070320105	Vertical Vane Assembly	10	
1070320204	Face Frame	1	
1070320112	Screw Cover	2	
	1210320107 1070020026 1070100010 1210320601 1210320108 1070320105 1070320204	1210320107 Base 1070020026 Cross Fan 1070100010 Bearing Mount 1210320601 Evaporator 1210320108 Water Drainage Assembly 1070320105 Vertical Vane Assembly 1070320204 Face Frame	1210320107 Base 1 1070020026 Cross Fan 1 1070100010 Bearing Mount 1 1210320601 Evaporator 1 1210320108 Water Drainage Assembly 1 1070320105 Vertical Vane Assembly 10 1070320204 Face Frame 1

		Air Conditioner Service Manua	1	
10	1090250119	Display PCB	1	
11	1070250120	Display PCB Box	1	
12	1070320109	Air Filter	2	
13	1070321326	Front Panel	1	
14	1070321240	Display PCB Cover	1	
15	1170120135	Power Supply Cord	1	
16	1070320104	Vane	1	
17	1070110011	Drainage Hose	1	
18	1170200039	Terminal	1	
19	1090350031	Main PCB	1	
20	1070320113	Electrical Box	1	
21	1170020011	Vane Motor	1	
22	1073010501	Sensor Holder	1	
23	1170030067	Indoor Motor	1	
24	1070320111	Indoor Motor Clamp	1	
25	1170240001	Transformer	1	
26	1170230001	Indoor Sensor Assembly	1	
27	1070320101	In And Out Pipe Fixer	1	
28	1090050604	Remote Controller	1	
29	1070060003	Remote Controller Supporter	1	
30	1190130773	Indoor Carton	1	
31	1301990351	Left Foaming	1	
32	1301990352	Right Foaming	1	



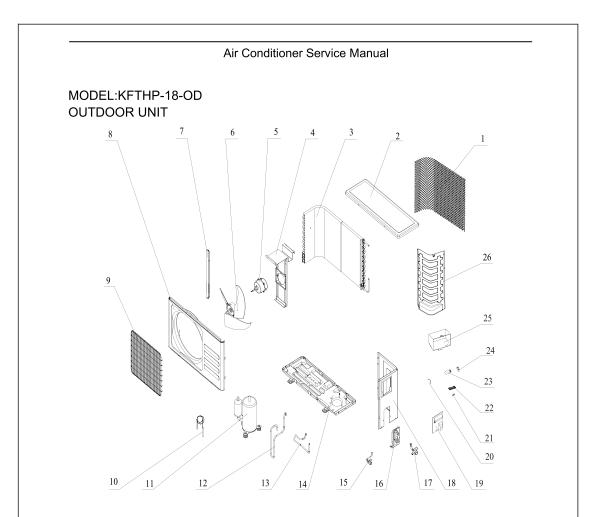
No.	Part No.	Part Name	Q'ty	Remark
1	1071990040	Grille	1	
2	1080050031	Top Cover	1	
3	1110060384	Condenser	1	
4	1080050004	Outdoor Motor Supporter	1	
5	1170040069	Outdoor Motor	1	
6	1070030038	Propeller Fan	1	
7	1080050001	Left Grille Supporter	1	
8	1080050032	Front Plate	1	
9	1080320112	Fan Guard	1	

	Air Conditioner Service Manual			
10	1120350855	Capillary Assembly	1	
11	1100110022	Compressor And It Accessories	1	
12	1120350923	Discharge Pipe	1	
13	1120350922	Suction Pipe	1	
14	1080050074	Base	1	
15	1120120016	Two-way Valve	1	
16	1080050003	Valve Supporter	1	
17	1120130024	Three-way Valve	1	
18	1080050029	Right Plate	1	
19	1073551103	Electrical Box Cover	1	
20	1080010006	Capacitor Strip	1	
21	1070040003	Cable Clamp(ϕ 8)	1	
22	1170500130	Terminal	1	
23	1170100003	Compressor Capacitor	1	
24	1170100027	Fan Motor Capacitor	1	
25	1081990010	Electrical Parts Box	1	
26	1080170001	Partition plate	1	
27	1190070020	Base Carton	1	
28	1190070002	Cabinet Carton	1	
29	1190070022	Base Foaming	1	
30	1190070021	Cover Forming	1	



No.	Part No.	Part Name	Q'ty	Remark
1	1080030021	Installation Plate	1	
2	1070350243	Base	1	
3	1070020024	Cross Fan	1	
4	1070100010	Bearing Mount	1	
5	1110050837	Evaporator	1	
6	1070350137	Water Drainage Assembly	1	
7	1070350141	Vertical Vane Assembly	12	
8	1070500250	Face Frame	1	
9	1070350135	Screw Cover	3	
10	1090250119	Display PCB	1	

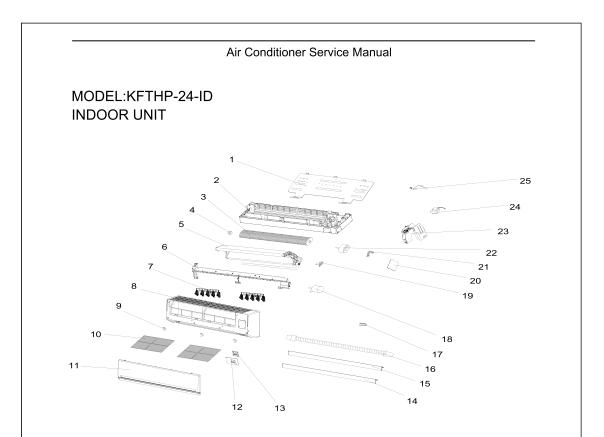
	Air Co	onditioner Service Manual		
11	1070250120	Display PCB Box	1	
12	1070310003	Left Air Filter	1	
12	1070310004	Right Air Filter	1	
13	1070450408	Front Panel	1	
14	1070450573	Display PCB cover	1	
15	1170120135	Power Supply Cord	1	
16	1070350140	Vane	1	
17	1070110011	Drainage Hose	1	
18	1170020011	Vane Motor	1	
19	1073010501	Sensor Holder	1	
20	1090430106	Main PCB	1	
21	1070350152	Indoor Motor Cover	1	
22	1170030065	Indoor Motor	1	
23	1070350119	Electrical Box	1	
24	1170240001	Transformer	1	
25	1170230001	Indoor Sensor Assembly	1	
26	1070350245	In And Out Pipe Fixer	1	
27	1170200039	Terminal	1	
28	1090050604	Remote Controller	1	
29	1070060003	RemoteController Supporter	1	
30	1190130771	Indoor Carton	1	
31	1190060054	Left Foaming	1	
32	1190060055	Right Foaming	1	
33	1190060057	Middle PasteboardSupporter	1	



No.	Part No.	Part Name	Q'ty	Remark
1	1083520101	Grille	1	
2	1070500400	Top Cover	1	
3	1110061268	Condenser	1	
4	1081990060	Outdoor Motor Supporter	1	
5	1170040067	Outdoor Motor	1	
6	1070030040	Propeller Fan	1	
7	1070500397	Left Grille Supporter	1	
8	1081990257	Front Plate	1	
9	1071990096	Fan Guard	1	
10	1120501679	Capillary Assembly	1	

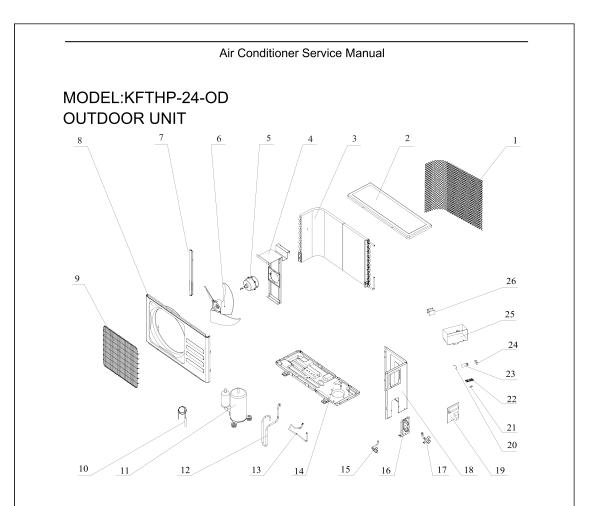
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11	1100060065	Compressor And It Accessories	1	
12	1120501093	Discharge Pipe	1	
13	1120501092	Suction Pipe	1	
14	1080500252	Base	1	
15	1120120016	Two-way Valve	1	
16	1070500399	Valve Supporter	1	
17	1120130024	Three-way Valve	1	
18	1070500398	Right Plate	1	
19	1073551103	Electrical Box Cover	1	
20	1080010006	Capacitor Strip	1	
21	1070040002	Cable Clamp(ϕ 7)	1	
22	1170500130	Terminal	1	
23	1170100026	Compressor Capacitor	1	
24	1170100030	Fan Motor Capacitor	1	
25	1081990010	Electrical Parts Box	1	
26	1081990071	Partition plate	1	
27	1190070064	Base Carton	1	
28	1190530012	Cabinet Carton	1	
29	1190070066	Base Foaming	1	
30	1190070124	Cover Forming	1	

Air Conditioner Service Manual



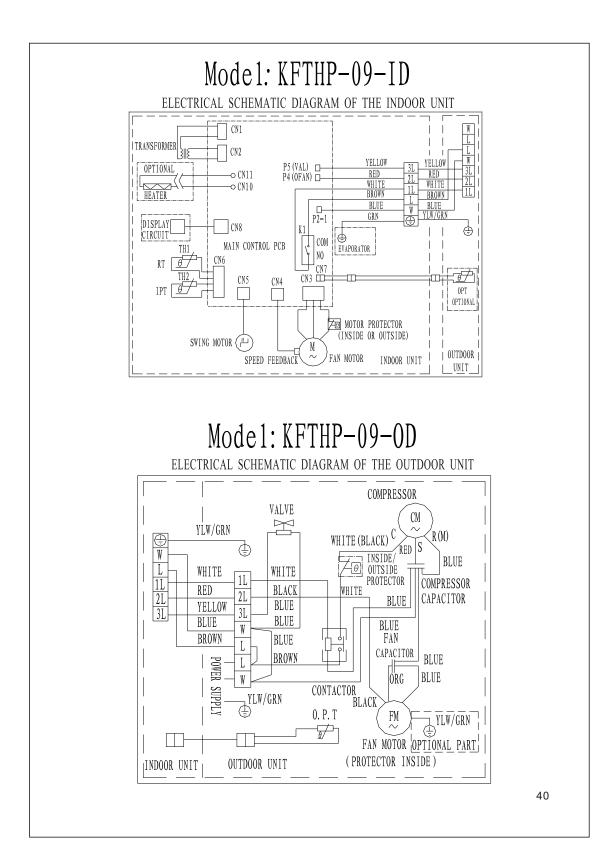
No.	Part No.	Part Name	Q'ty	Remark
1	1080030001	Installation Plate	1	
2	1213090101	Base	1	
3	1070020014	Cross Fan	1	
4	1070100010	Bearing Mount	1	
5	1210700205	Evaporator	1	
6	1213090102	Water Drainage Assembly	1	
_	1073090106	Vertical Vane Assembly A	1	
7	1073090107	Vertical Vane Assembly B	1	

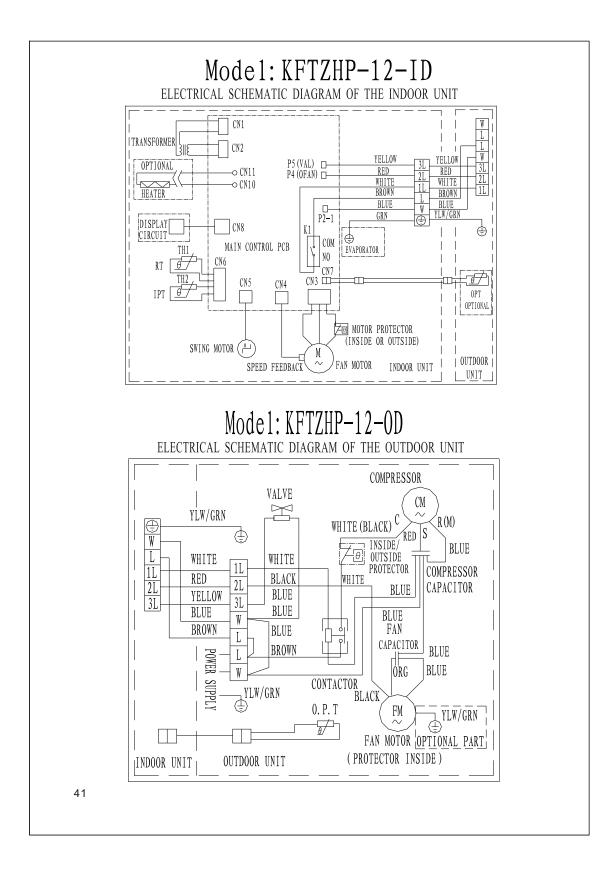
8	1070700364	Face Frame	1	
9	1073090111	Screw Cover	3	
10	1073090112	Left Air Filter	1	
10	1073090113	Right Air Filter	1	
11	1070501119	Front Panel	1	
12	1300501650	Display PCB Cover	1	
13	1090500507	Display PCB (digital)	1	
14	1073090108	Vane A	1	
15	1073090125	Vane B	1	
16	1070110011	Drainage Hose	1	
17	1074060118	Cable Clamp	1	
18	1170020011	Vane Motor	2	
19	1073010501	Sensor Holder	1	
20	1090700113	Main PCB(digital)	1	
21	1073090120	Indoor Motor Cover	1	
22	1170030054	Indoor Motor	1	
23	1073090121	Electrical Box	1	
24	1173090107	Transformer	1	
25	1170230001	Indoor Sensor Assembly	1	
28	1090050604	Remote Controller	1	
29	1070060003	Remote Controller Supporter	1	
30	1190130769	Indoor Carton	1	
31	1190060070	Left Foaming	1	
32	1190060069	Right Foaming	1	
33	1190060021	Middle Pasteboard Supporter	1	
34	1190060002	Middle Foaming Supporter	1	

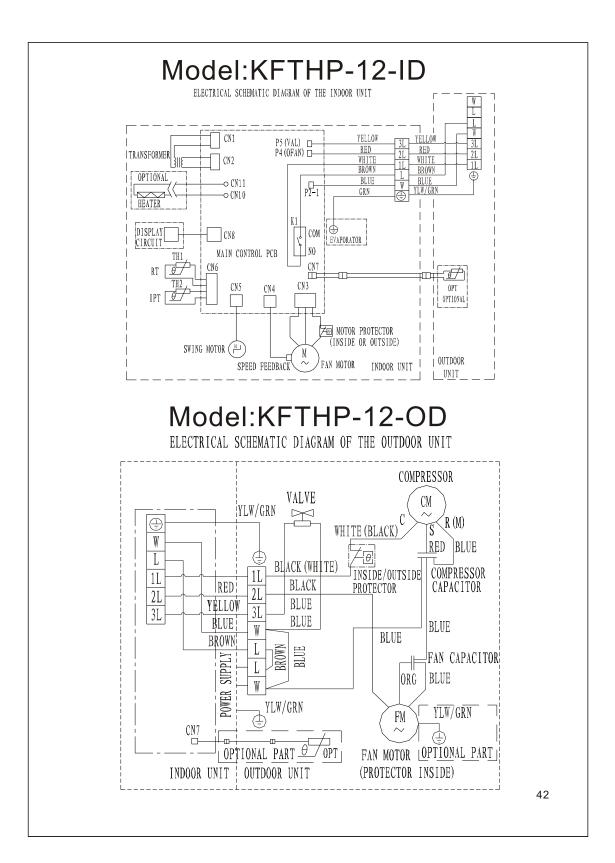


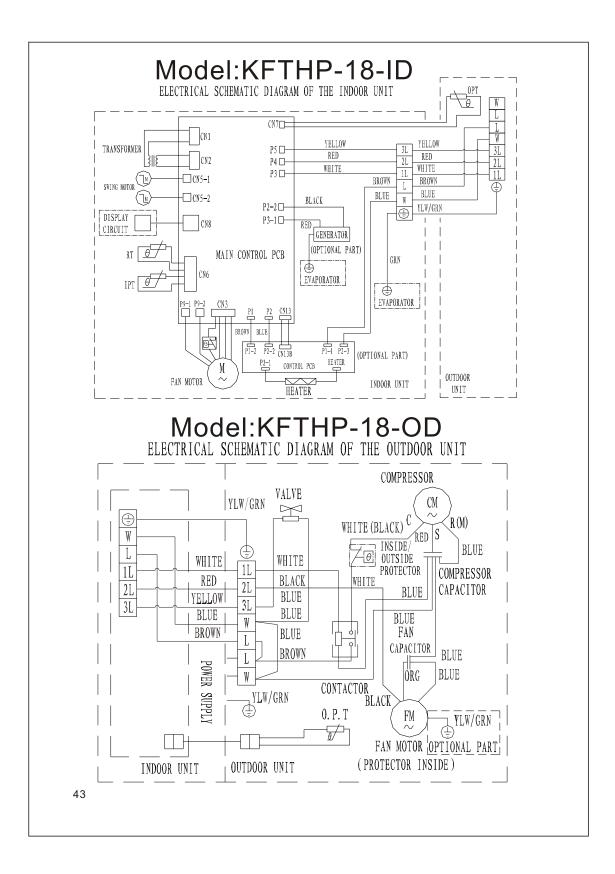
No.	Part No.	Part Name	Q'ty	Remark
1	1071990041	Grille	1	
2	1080020006	Top Cover	1	
3	1110060396	Condenser	1	
4	1081990042	Outdoor Motor Supporter	1	
5	1170040107	Outdoor Motor	1	
6	1170120146	Propeller Fan	1	
7	1080020008	Left Grille Supporter	1	
8	1080020010	Front Plate	1	
9	1071990045	Fan Guard	1	
10	1120700709	Capillary Assembly	1	

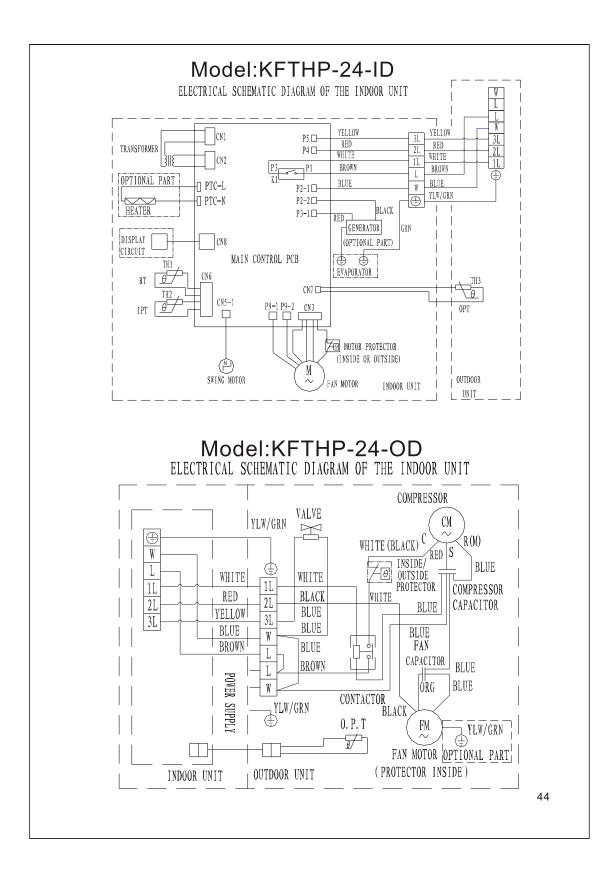
	,	Air Conditioner Service Manual		
11	1100030091	Compressor And It Accessories	1	
12	1120700668	Discharge Pipe	1	
13	1120700435	Suction Pipe	1	
14	1081990252	Base	1	
15	1120120011	Two-way Valve	1	
16	1080020009	Valve Supporter	1	
17	1120130013	Three-way Valve	1	
18	1080020007	Right Plate	1	
19	1073551103	Electrical Box Cover	1	
20	1080010004	Capacitor Strip	1	
21	1074060118	Cable Clamp	1	
22	1170200055	Terminal	1	
23	1170100033	Compressor Capacitor	1	
24	1170100030	Fan Motor Capacitor	1	
25	1081990049	Electrical Parts Box	1	
26	1174561801	AC Contactor	1	
27	1190060191	Base Carton	1	
28	1190130768	Cabinet Carton	1	
29	1190060191	Base Foaming	1	
30	1190070052	Cover Forming	1	











		SPECIFICATION				
	MODEL	KFTHP-09	KFTZHP-12	KFTHP-12	KFTHP-18	KFTHP-24
Funci	ion	COOLING AND HEATING	COOLING AND HEATING	COOLING AND HEATING	COOLING AND HEATING	COOLING AND HEATING
Rated	d Votlage	115V	115V	208-230V	208-230V	208-230V
Rated	d Frequency(Hz)	60	60	60	60	60
Cooli	ng/Heating Capacity(BTU)	9000/9500	12500/12000	12500/(12000+3070)	18000/(17300+3412)	24000/(23500+3412)
SEEF	۲	13.5	13.0	13.0	13.0	13.0
Decla	ared EER/Actual EER	11.6/11.3	10.9/10.4	12.3/11.3	11.6/11.3	11.6/10.9
Decla	ared COP/Actual COP (W/W.h)	3.6/3.3	3.7/3.6	2.6/3.5	2.4/3.3	2.5/3.2
Cooli	ng/Heating Power Input(W)	800	1000	1000/(1000+900)	1550/(1500+1000)	2050/(2050+1000)
Cooli	ng/Heating Rated Current(A)	7.3/7.4	4.6	4.6/(4.6+4.1)	6.7/(6.4+4.5)	9.7/(9.7+4.5)
Air F	low Volume(CFM)	325/305/290	430/420/400	430/420/400	590/560/540	854/826/800
HSPF	F	9.0	8.1	8.7	7.7	7.8
Dehu	imidifying Volume(pt/h)	1.41	1.76	2,11	2.64	2.64
	Restart	Yes	Yes	Yes	Yes	Yes
	ker Size (A)	15A	15A	10A	15A	20A
	hiunm Circult Ampacity	9.5A	6.35	6.35	9.55	12.2
-	Fan Motor Speed(r/min)(L/M/H)	1300/1200/1100	1300/1220/1150	1300/1220/1150	1550/1230/1110	1550/1230/1110
	Output of Fan Motor(W)	12	18	18	60	54
	Fan Motor Capacitor(uf)	1.5	1.5	1.5	2	3
	Fan Motor RAL(A)	0.28	0.14	0.14	0.77	0.75
	Coil(L×H×W)	24.29x12.4x1	27.76x12.4x1	27.76x12.4x1	31.38x14.06x1	37.87x16.54x1
ndoor	Evaporator Fan Motor(A)		0.14	0.14	0.77	0.75
pu	· · · ·	0.36	6	6	6	6
	Fuse(A)	6	42/40/38			57/55/52
	Noise Level dB (A)(L/M/H)	40/38/36		42/40/38	56/54/50	
	Indoor Unit Dimension(W×H×D)(inch)	31.52x11.03x7.29	35×11×8.25	35×11×8.25	40×12.25×8.75	48.13×12.75×9.64
	Dimension of Package(W×H×D)(inch)	34.87x14.42x10.95	39×14×11.5	39×14×11.5	43.25×15.75×11.75	52×16.5×13.5
	Net Weight/Gross Weight(LB)	20.5/27	21.5/28	21.5/28	31/39.5	40.5/52.5
	Outdoor Operating Range	24°F to 110 °F	24°F to 110 °F	24°F to 110 °F	24"F to 110 "F	24°F to 110 °F
	Condenser			aluminum fin-copper tube		
	Row-Fin Gap(inch)	2-0.059	2-0.059	2-0.059	2-0.051	2-0.059
	Coil(L×H×W)(inch)	27.87x20.8x1	30.51x20.08x1	30.51x20.08x1	35.83x23.98x1.5	39.96x30x1.5
	Fan motor Speed (rpm)	860	860	860	750	860
	Output of Fan Motor(w)	31	31	31	76	150
	Fan Motor RAL(A)	0.72	0.32	0.32	0.86	1.3
	Fan Motor Capacitor(uf)	5	1.5	1.5	4.0	8.0
Ŀ	Fan Type-Pipe	Axial fan	Axial fan	Axial fan	Axial fan	Axial fan
outdoor	Fan Diameter(inch)	22/28.6	15.8	15.8	18.5	19.3
no	Defrosting Methord	Auto defrost	Auto defrost	Auto defrost	Auto defrost	Auto defrost
	Noise Level dB (A)	50	52	52	54	59
	Isolation	1	1	1	1	1
	Design Pressure High(PSI)	465	465	465	465	465
	Design Pressure Low(PSI)	252	252	252	252	252
	Outdoor Dimension(W×H×D)(inch)	32×21.75×13	32×21.75×13	32×21.75×13	38.75×26.25×15.5	35.75×31.62×17
	Dimension of Package(W×H×D)(inch)	34×24×14.75	34×24×14.75	34×24×14.75	40.5×28.25×17	40.5×33×17.5
	Net Weight/Gross Weight(LB)	67.5/77	67.5/77	67.5/77	109/121.5	133/145
	Refrigerant Charge(Ib)	R410A/2.09	R410A/2.25	R410A/2.38	R410A/4.41	R410A/5.84
	Design Length(ft)	24.6	24.6	24.6	24.6	24.6
	Design Pressure High/Low(PSIG)	465/252	465/252	465/252	465/252	465/252
Conenection Pipe	Exrea Refrigerant Charge Per feet above	0.22	0.22	0.22	0.33	0.33
ction	design length(oz/ft)					3/8
ene	Outer Diameter Liquid Pipe(inch)	1/4	1/4	1/4	1/4	
one.	Outer Diameter Gas Pipe(inch)	3/8	3/8	3/8	1/2	5/8
	Max Distance Height(ft) Max Distance Length(ft)	16.4 49.2	16.4	16.4	16.4	16.4 49.2
			49.2	49.2	49.2	

Soleus International Inc. warrants the accompanying Soleus Air 13 SEER Mini Split Air Conditioner (Model: KFTHP-09-ID/KFTHP-09-OD, KFTHP-12-ID/KFTHP-12-OD, KFTZHP-12-ID/KFTHP-12-OD KFTHP-18-ID/KFTHP-18-OD and KFTHP-24-ID/KFTHP-24-OD) to be free of defect in material and workmanship for the applications in its operation instruction for the period of parts specified below.

5 YEARS FOR COMPRESSOR	
1 YEAR FOR OTHER COMPONENTS	

This warranty shall not apply to broken or marred cabinets, accessories, knobs, filters or routine maintenance. This warranty does not apply to uncrating, setup, installation, removal of the product for repair or reinstallation of the product after repair.

This warranty does not apply to repairs or replacements necessitated by any cause beyond the control of Soleus International including, but not limited to, any malfunction, defect or failure caused by or resulting from unauthorized service or parts, improper maintenance, operation contrary to furnished instructions, shipping or transit accidents, modification or repair by the user, abuse, misuse, neglect, accident, incorrect power line voltage, fire, flood or other Acts of God, or normal wear and tear.

Warranty service must be performed by a qualified HVAC contractor. Soleus maintains a centralized service network to provide parts and assist in resolving service problems if difficulties are encountered. Soleus agrees to provide service information, sell repair parts and reimburse the dealer /serviceman for parts in accordance with Soleus International's Policies and Procedures.

SOLEUS INTERNATIONAL MAINTAINS THAT ALL WARRANTIES, INCLUDING IMPLIED WARRANTY OR MERCHANTABILITY ARE LIMITED TO THE TERMS AND CONDITIONS SPECIFIED ABOVE. SOLEUS INTERNATIONAL DISCLAIMS ANY LIBILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES AND IN NO EVENT SHALL SOLEUS INTERNATIONAL INC.'S LIABILITY EXCEED THE RETAIL VALUE OF THE AIR CONDITIONER.

This warranty covers only new products purchased from our authorized dealers or retailers. It does not cover internet sales, used, salvaged, or refurbished products.

FOR TECHNICAL SUPPORT AND WARRANTY SERVICE

Soleus International Inc. 20035 E. Walnut Drive North City of Industry, CA 91789 U.S.A Tel: 1-888-8-SOLEUS Monday through Friday, 9:00 AM to 5:00 PM, PST Email: Contact@soleusair.com Website: www.soleusair.com