### USE AND INSTALLATION INSTRUCTIONS

Thank you very much for purchasing this Air Conditioner. Please read this use and installation instructions carefully before installing and using this appliance and keep this manual for future reference.

# Contents /

safety instructions	1
Safety Precautions	2
Maintenance	3
Preparation before use	4
Identification of parts	5
Indoor unit	5
Outdoor unit	5
Display introduction	6
Protection	7
Troubleshooting	8
Installation instructions	9
Installation diagram	9
Select the installation locations	10
Indoor unit installation	11
Wiring diagram	14
Outdoor unit installation	16
Air purging	16

Remote controller operating instructions. See" remote controller instructions".

# Safety instructions |

- To guarantee the unit work normally, please read the manual carefully before installation, and try to install strictly according to this manual.
- Do not let air enter the refrigeration system or discharge refrigerant when moving the air conditioner.
- Properly ground the air conditioner into the earth.
- Check the connecting cables and pipes carefully, make sure they are correct and firm before connecting the power of the air conditioner.
- There must be an air-break switch.
- After installing, the consumer must operate the air conditioner correctly according to this manual, keep a suitable storage for maintenance and moving of the air conditioner in the future.
- Fuse of indoor unit: T 3.15A 250VAC.
- For 7k~12k models, fuse of outdoor unit: T 15A 250VAC or T 20A 250VAC.
- For 14k~18k models, fuse of outdoor unit: T 20A 250VAC.
- For 21k~30k models, fuse of outdoor unit: T 30A 250VAC.
- The installation instructions for appliances that are intended to be permanently connected to fixed wiring, and have a leakage current that may exceed 10 mA, shall state that the installation of a residual current device (RCD) having a rated residual operating current not exceeding 30 mA is advisable.
- Warning: Risk of electric shock can cause injury or death: Disconnect all remote electric power supplies before servicing.
- The maximum length of the connecting pipe between the indoor unit and outdoor unit should be less than 5 meters. It will affect the efficiency of the air conditioner if the distance longer than that length.
- 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.
- The batteries in remote controller must be recycled or disposed of properly.
   Disposal of Scrap Batteries --- Please discard the batteries as sorted municipal waste at the accessible collection point.
- If the appliance is fixed wiring, the appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under over voltage category III conditions, and these means must be incorporated in the fixed wiring in accordance with the wiring rules.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The appliance shall be installed in accordance with national wiring regulations.
- The air conditioner must be installed by professional or qualified persons.
- The appliance shall not be installed in the laundry.

# Safety precautions

#### Symbols in this Use and Care Manual are interpreted as shown below.



Be sure not to do.



Grounding is essential.



Pay attention to such a situation.



Warning: Incorrect handling could cause a serious hazard, such as death, serious injury, etc.



Use correct power supply in accordance with the rating plate requirement. Otherwise, serious faults or hazard may occur or a fire maybe break out.

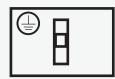


Keep the power supply circuit breaker or plug from dirt. Connect the power supply cord to it firmly and correctly, lest an electric shock or a fire break out due to insufficient contact.



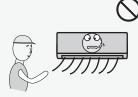


Do not use the power supply circuit breaker or pull off the plug to turn it off during operation. This may cause a fire due to spark, etc.

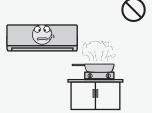




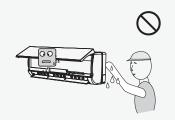
It is the user's responsibility to make the appliance be grounded: Turn off the appliance by remote according to local codes or ordinances by a licenced technician.



It is harmful to your health if the cool air reaches you for a long time. It is advisable to let the air flow be deflected to all the room.



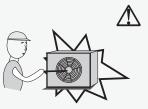
Prevent the air flow from reaching the gas burners and stove.



Do not touch the operation buttons when your hands are wet.



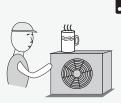
control firstly before cutting off power supply if malfunction occurs.



Never insert a stick or similar obstacle to the unit. Since the fan rotates at high speed, this may cause an injury.



Do not repair the appliance by yourself. If this is done incorrectly, it may cause an electric shock, etc.



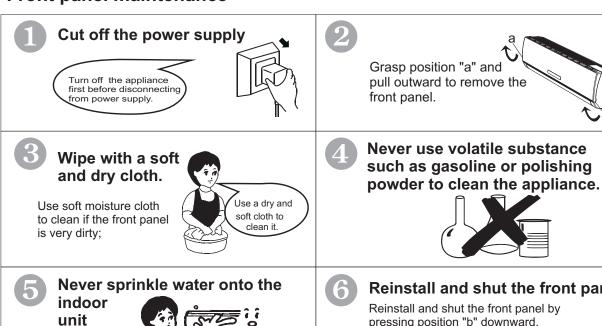
Do not put any objects on the outdoor



Do not knit, pull or press the power supply cord, lest the power supply cord be broken. An electric shock or fire is probably caused by a broken power supply cord.

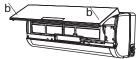
## **Maintenance**

#### Front panel maintenance

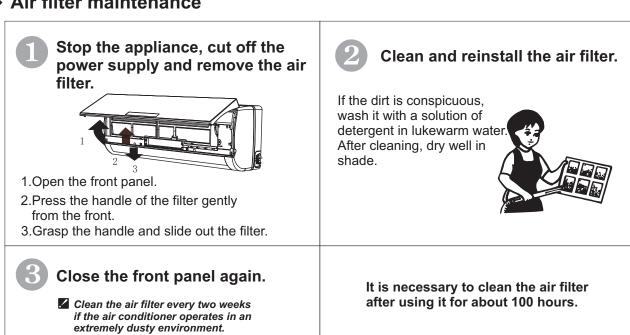


Dangerous Electric shock!





#### Air filter maintenance



## Preparation before use

#### Note



- When charging refrigerant into the system, make sure to charge in liquid state, if the refrigerant of the appliance is R410A. Otherwise, chemical composition of refrigerant (R410A) inside the system may change and thus affect performance of the air conditioner.
- According to the character of refrigerant (R410A, the value of GWP is 2088), the pressure of the tube is very high, so be sure to be careful when you install and repair
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The air conditioner must be installed by a professional engineer. • The temperature of refrigerant circuit will be high, please keep the

# interconnection cable away from the copper tube.

#### **Preset**

Before using the air conditioner, be sure to check and preset the following.

#### • Remote Control presetting

Each time after the remote control is replaced with new batteries or is energized, remote control auto presetting heat pump. If the air conditioner you purchased is a Cooling Only one, heat pump remote controller can also be used.

#### Back-light function of Remote Control(optional)

Hold down any button on remote control to activate the back light. It automatically shuts off 10 seconds later.

Note: Back-light is an optional function.

#### • Auto Restart Presetting

The air conditioner has an Auto-Restart function.

#### Safeguarding the environment

This appliance is made of recyclable or re-usable material. Scrapping must be carried out in compliance with local waste disposal regulations. Before scrapping it, make sure to cut off the mains cord so that the appliance cannot be re-used.

For more detailed information on handling and recycling this product, contact your local authorities who deal with the separate collection of rubbish or the shop where you bought the appliance.

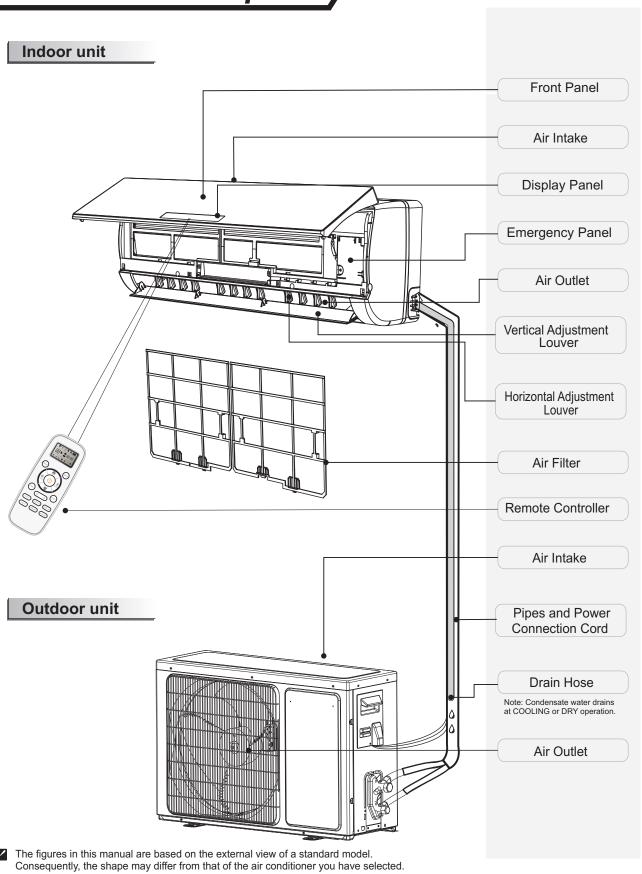
#### **SCRAPPING OF APPLIANCE**

This appliance is marked according to the European Directive 2012/19/EC, Waste Electrical and Electronic Equipment (WEEE).

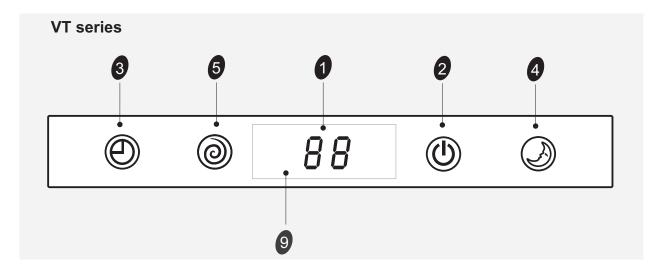
This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

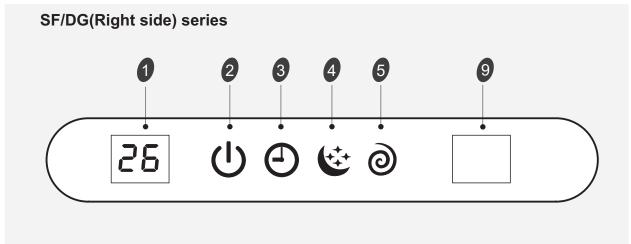


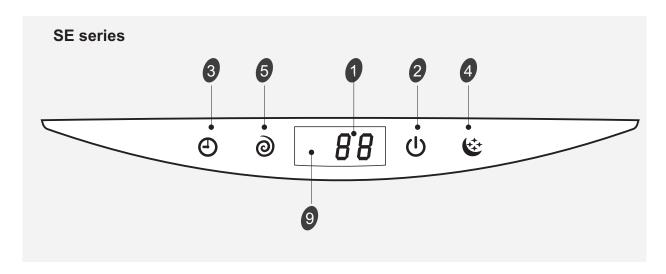
# Identification of parts



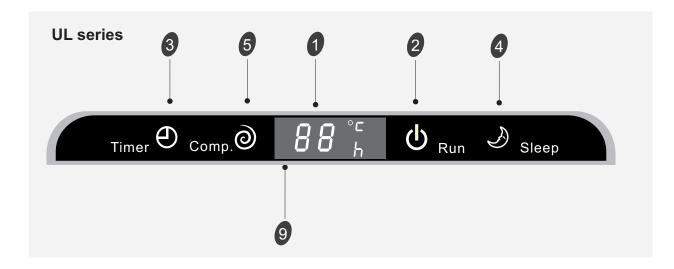
Temperature indicator Display set temperature. It shows FC after 200 hours of usage as reminder to clean the filter. After filter cleaning press the filter reset button located on the indoor unit behind the front panel in order to reset the display. (optional) It displays set humidity in humidity mode. (optional) Running indicator It lights up when the AC is running. It flashes during defrosting. Timer indicator It lights up during set time. Sleep indicator Sleep It lights up in sleep mode. Compressor indicator It lights up when the compressor is on. Super indicator It lights up in super mode. Mode indicator Heating displays orange, others display white **>>>>>** Fan speed indicator Signal Receptor Filter Clean indicator It lights up when the filter needs to be cleaned. Smart WIFI indicator It lights up during WIFI is on. 6th Comfort indicator ..... It lights up in 6th Comfort mode. Humidity indicator It lights up in humidity mode. VG/VL series

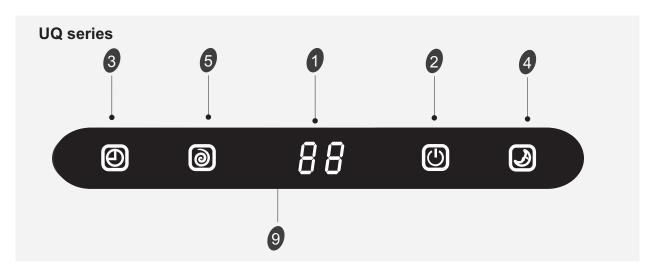


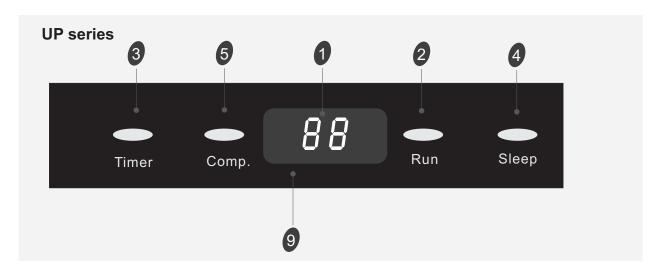




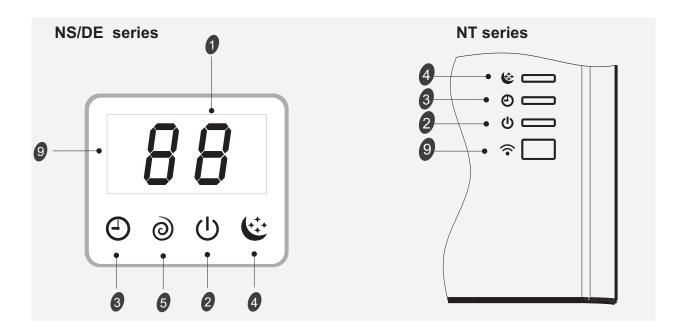
✓ The symbols may be different from these models, but the functions are similar.

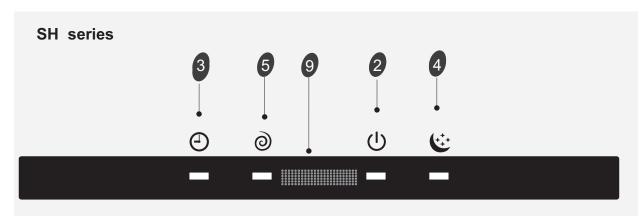


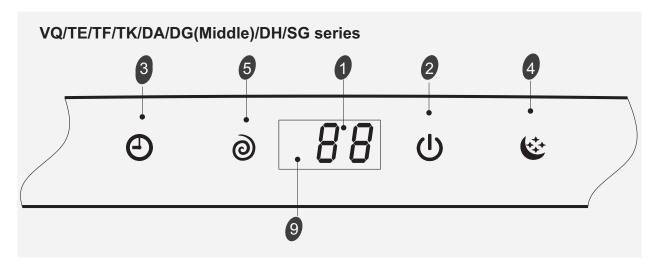




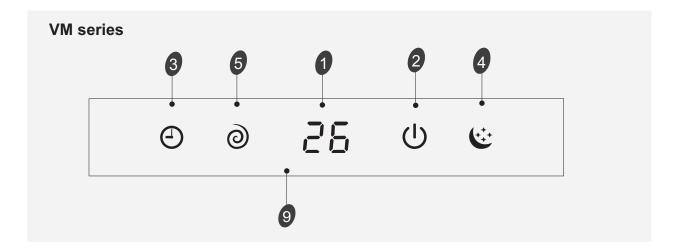
The symbols may be different from these models, but the functions are similar.

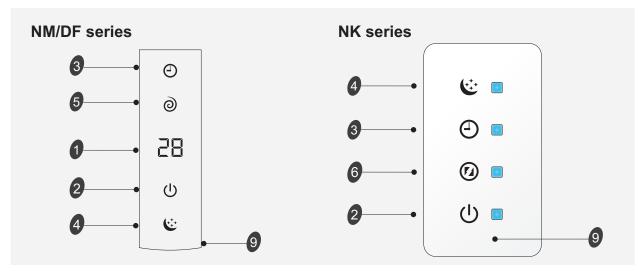


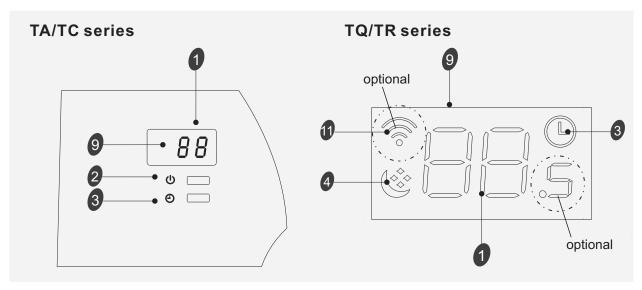




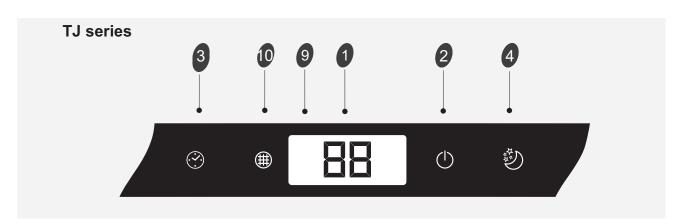
✓ The symbols may be different from these models, but the functions are similar.

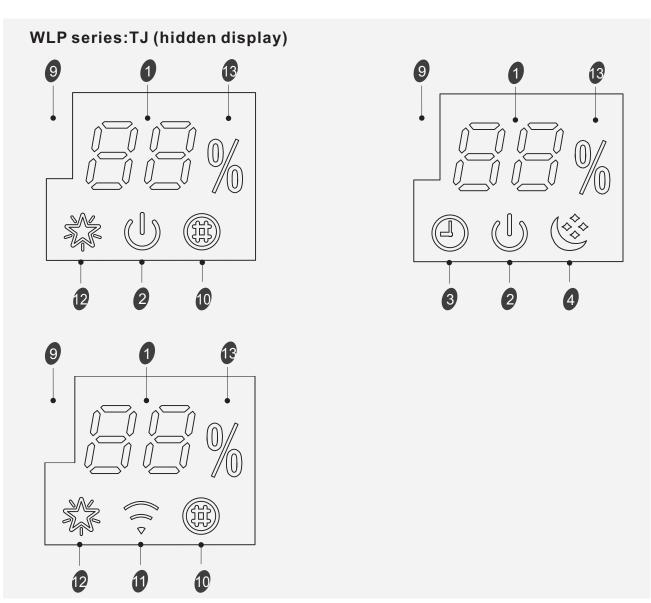




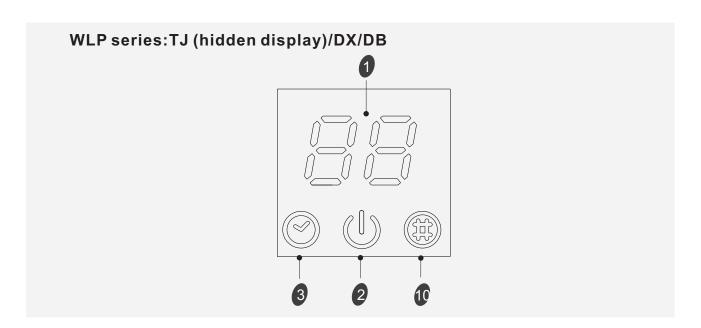


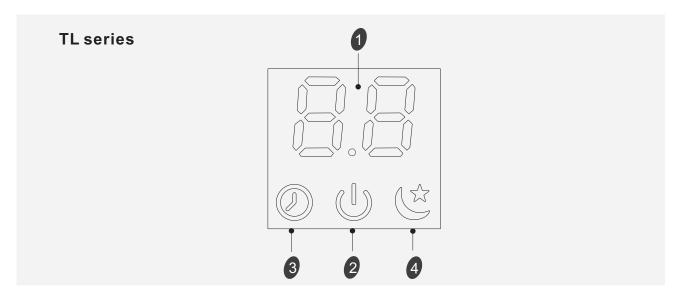
✓ The symbols may be different from these models, but the functions are similar.

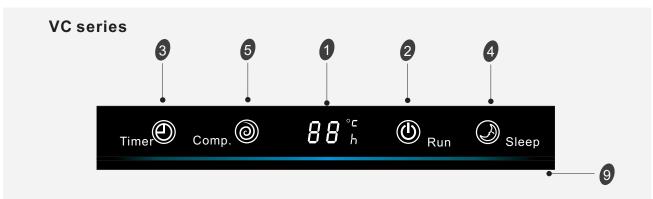




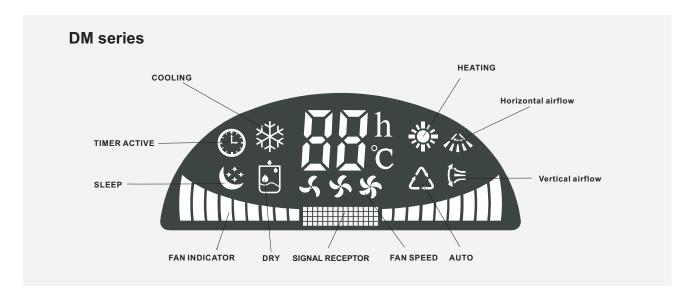
The symbols may be different from these models, but the functions are similar.

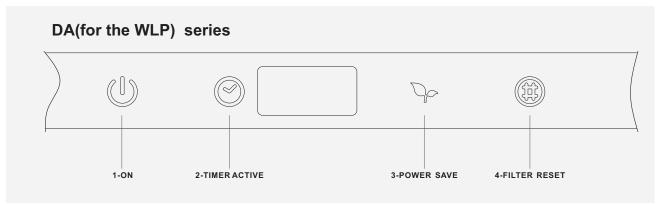


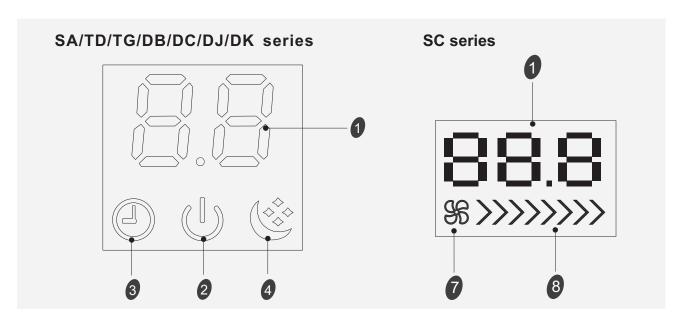




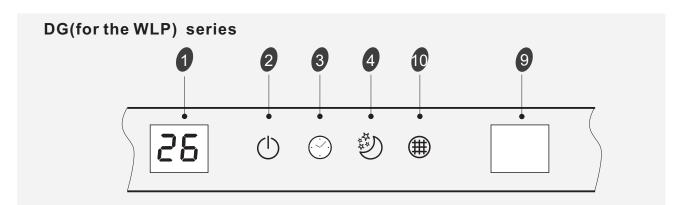
✓ The symbols may be different from these models, but the functions are similar.



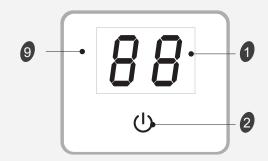




✓ The symbols may be different from these models, but the functions are similar.



#### TM/TP series



#### FOR THE WLP TJ SERIES

Emergency button 14

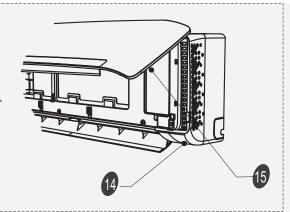


To let the AC run or stop by pressing the button. ON/OFF

Filter reset button 15



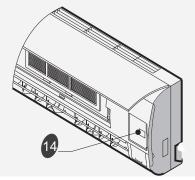
To reset filter clean indicator by pressing the button.



Emergency button 14



To let the AC run or stop by pressing the button. ON/OFF



The symbols may be different from these models, but the functions are similar.

## **Protection**

#### Operating condition

The protective device maybe trip and stop the appliance in the cases listed below.

	Outdoor air temperature is over 24°C
HEATING	Outdoor air temperature is below -10°C
	Room temperature is over 27°C

COOLING	Outdoor air temperature is over *43°C
	Room temperature is below 21°C
DRY	Room temperature is below 18°C

<sup>\*</sup>For Tropical (T3) Climate condition models, the temperature point is 55°Cinstead of 43°C.
The temperature of some products is allowed beyond the range. In specific situation, please consult the merchant. If the air conditioner runs in COOLING or DRY mode withdoor or window opened for a long time when relative humidity is above 80%, dew may drip down from the outlet.

#### Noise pollution

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

#### Features of protector

- 1. The protective device will work at following cases.
  - Restarting the unit at once after operation stops or changing mode during operation, you need to wait for 3 minutes.
  - Connect to power supply and turn on the unit at once, it may start 20 seconds later.
- 2. If all operation has stopped, press **ON/OFF** button again to restart, Timer should be set again if it has been canceled.

#### ◆ Features of HEATING mode

#### Preheat

At the beginning of the HEATING operation, the airflow from the indoor unit is discharged 2-5 minutes later.

#### Defrost

In **HEATING** operation the appliance will defrost (de-ice) automatically to raise efficiency. This procedure usually lasts 2-10 minutes. During defrosting, fans stop operation. After defrosting completes, it returns to **HEATING** mode automatically.

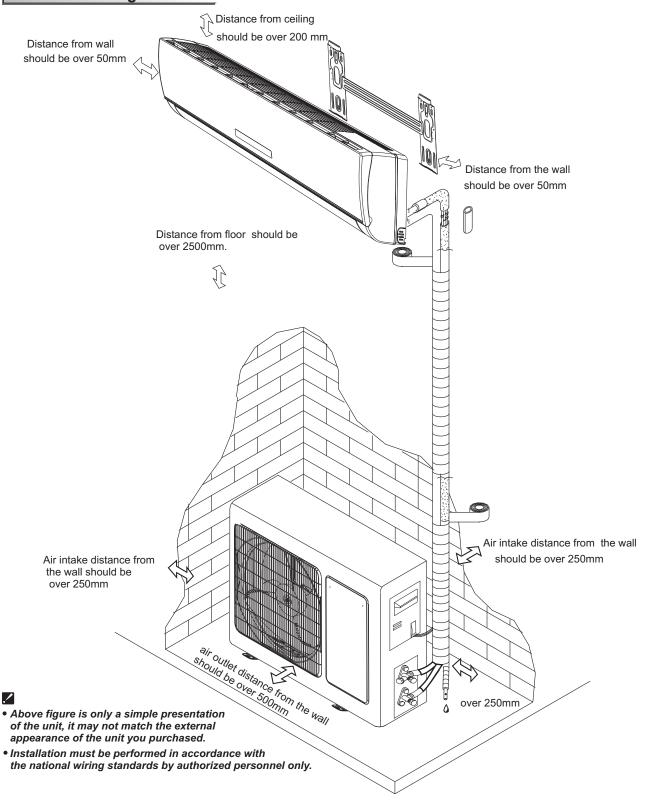
Note: Heating is NOT available for cooling only air conditioner models.

# Troubleshooting /

The following cases may not always be a malfunction, please check it before asking for service.

Troubl	е	Analysis
Does not run		<ul> <li>If the protector trip or fuse is blown.</li> <li>Please wait for 3 minutes and start again, protector device may be preventing unit to work.</li> </ul>
	HY	<ul><li>If batteries in the remote controller exhausted.</li><li>If the plug is not properly plugged.</li></ul>
No cooling or heating air		<ul><li> Is the air filter dirty?</li><li> Are the intakes and outlets of the air conditioner blocked?</li></ul>
Ineffective control	N NO	<ul> <li>Is the temperature set properly?</li> <li>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 later.</li> </ul>
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		<ul> <li>Caused by the flow of refrigerant in the air conditioner, not a trouble.</li> <li>Defrosting sound in heating mode.</li> </ul>
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 ind and indoor fan stops	icator(red) lights on constantly,	The unit is shifting from heating mode to defrost. The indicator will lights off within ten minutes and returns to heating mode.

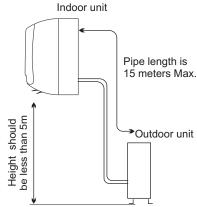
#### **Installation diagram**



#### Select the installation location

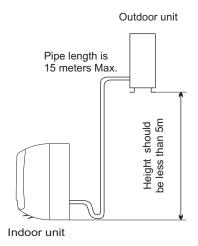
#### Location for Installing Indoor Unit

- 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 installation diagram on previous page.
- Where the air filter can be easily removed.
- Keep the unit and remote controller 1m or more apart from television, radio etc.
- keep as far as possible from fluorescent lamps.
- Do not put anything near the air inlet to obstruct it from air absorption.
- Install on a wall that is strong enough to bear the weight of the unit.
- Install in a place that will not increase operation noise and vibration.
- Keep away from direct sunlight and heating sources. Do not place flammable materials or combustion apparatuses on top of the unit.



#### 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.
- The distance between Indoor and outdoor unit should be 5 meters and can go up to maximum 15 meters with additional refrigerant charge.
- Keep the outdoor unit away from greasy dirt, vulcanization gas exit.
- Avoid installing it by the roadside where there is a risk of muddy water.
- A fixed base where it is not subject to increased operation noise.
- Where there is not any blockage of the air outlet.
- Avoid installing under direct sunlight, in an aisle or sideway, or near heat sources and ventilation fans. Keep away from flammable materials, thick oil fog, and wet or uneven places.



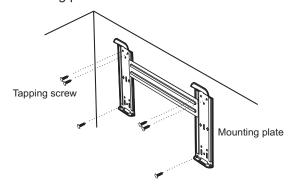
Model	Max. Allowable Tubing Length at Shipment (m)	Limit of Tubing Length (m)	Limit of Elevation Difference H (m)	Required amount of additional refrigerant (g/m)
7K~18K	5	15	5	20
21K~25K	5	15	5	30
30K,36K	5	15	5	40

If the height or pipe length is out of the scope of the table, please consult the dealer.

#### 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 horizontal with a horizontal ruler or dropping line.
- Drill holes of 32mm 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 the installation method is similar.

Note: As the above figure shown, the six holes matched with tapping screw on the mounting plate must be used to fix the mounting plate, the others are prepared.

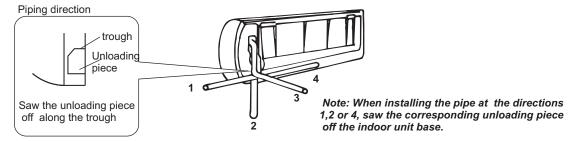
#### 2. Drill a Hole for Piping

- Decide the position of the hole for piping according to the location of mounting plate.
- Drill a hole in 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.

# Wall hole sleeve (hard polythene tube prepared by user) 5mm (tilt downward)

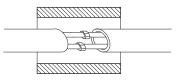
#### 3. Indoor Unit Piping Installation

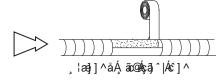
- Put the piping (liquid and gas pipe) and cables through the wall hole from outside or put them through from inside after indoor piping and cables connection is complete to connect to the outdoor unit.
- Decide whether to saw the unloading piece off in accordance with the piping direction.(as shown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



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

Piping Joints Thermal Insulation: Y¦æjÁs@^Ájājā;\*Ánjājo•Á,ãn@Ás@;¦{æþÁ ã, • `|æqã, } Å( æq^\änd;•Ánd) å Ánc@^}Á Ìæd Á ão@ÁseÁçãj^|Ásæal^È



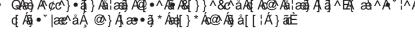


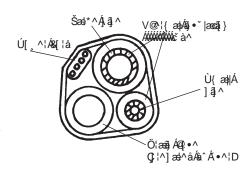
V@\{ ædÁ§• ĭ|æedi}}

#### • Piping Thermal Insulation:

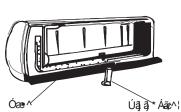
adÈÚ|æ&^Ás@^Ás¦æa§ÁQ•^ÁK}å^!Ás@^Ájājā;\*È àÈQ•\*|ææā}Á;ææ^¦ãædÁ•^•Á[|^c@^}^Á[æ{Á;ç^¦Âi{{ÁspÁs@a&\}^••È Note: Drain hose is prepared by user.

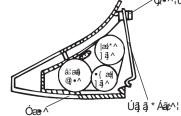
- Ö[Á,[ÓÁA+læ)\*^Áx@Á&læājÁ,ā]^ÁajÁAA, ÁæÁ, æÂx@ædÁ\æç^•ÁāxÁçã e\åÊA æ&\ã;\* Á, oÁ, ¦Á, æçá, \*Áæ;[ĭ}åÈÖ, Á, oÁa, { ^,•^Áo@A^}åÁ, √ÁaÁa, Áadá, Á, æc^¦È
- QÁsa) Á vợc \}• 41 } Ás l xa Ág ÁQ ^ Ása ÁS[ } } ^ & c ^ å Ág Ás @ Ás l xa Ág Ás @ Ás l xa Ág Á A A ~ Á ~ L ^ Á

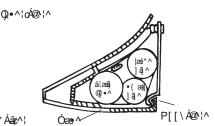




Y @ } Ás@ Á ā ā \* Áā Ášā^&c^å Áā Ás@ Áā @ĒÁ ā ā \* ĒÁ [ ^ \ Ô[ ¦å Ása} å Ás ¦æði Á ā ^ Á @ ` ja Ása^Á @ ¦{ æþÁj • ` jææ°å Ása} å -ã¢^å Á; } q Ás@ Ásæ& Á; -Ás@ Á }ão Ása∮ā ææði ā ā ; \* Aã¢^¦È







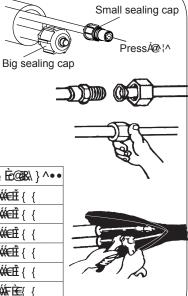
OEQ.• ^ | cÁc@ Á, ā, ^ Áã; ^ ká; Ác@ Á | [ cÈ

ÓÈÚ¦^••Ág Á@ [\Ás@A, ā, ^Áãc^¦Ás} d Ás@Asæ^È

#### Úālā; \* ÁÔ[}}^&cāl}K

- a. Before unscrewing the big and the small sealing caps, press the small sealing cap with the finger until the exhaust noise stops, and then loosen the finger.
- b. Ô[}}^&ofspå[[¦Á;)ãnÁ;]^•Á;ãnÓsp[Á;|^}&@•ÉAÚæÁ]^&ãadAææc^}cā[}ÁtÁc@Á æl|[\_^åÁt[¦~~ÁæeÁa@]}Ás^|[\_,ÃtÁspå/^c^}ofs@Á;]^•É&s[}}^&t[!•Áæ;åÁlæe^Á }~orÁ![{ Ás^ā;\*Ás^-{;{ ^寿;åÁsæ;æ\*^åÈ
- C. Ú¦^Ëĉã @^}Ás@{ Á ãc@Áã \*^¦•ÁscAã• dÊs@}Á•^Ás@Á !^}&@•ÈÁÁ
- If you don't hear the exhaust noise, please contact with the merchant.

T [ å^	Úą^Áã^	/[ ¦ ` ` ^	ÞĭoÁ,ããoo@	? TậiÈ@&\}^••
ÏÊÊʌʌÊIÊÈS	Šã ăâÁÙãa^ÁÇ⊅Î{{Á,¦ÁF+DÁS,&@MÁ‱	ÁFÍdG€Þ@ÁÁÁ	₩₩ <del>F</del> Ï{{	<b>/////</b> €Ě{ {
FÌSĐÊ FÊGÊ BÉ ÉH€ÊHÎS	Šã ~ãa Á Ĵãa ^ÁÇ⊅ JĚ H{{ Á, ¦Á + ĐÌ ÁS, Æ MÃS	ÁH€dHÍÞ®ÁÁÁ	₩₩ <b>G</b> G{ {	<i>X</i> XXXXX€È{ {
ïÊĤÊ€ÊGS	Őæ-ÁÙãå∧ÁÇ⊅JĚH{{Á,¦Á—HĐÁŞ}&ÓMÓÓÓ	ÁH€dHÍÞ@ÁÁÁ	₩₩ <b>G</b> G{ {	#####################################
FGS⊞Î SÊÎ S	Õæ-ÁÙãå^ÁÇ⊅FG({Á,¦ÁFBCÁ§&@DÁ₩₩	ÄÄ,€dÍÍÞ®(ÁÁÁ)	₩₩G {{	} Î <b>Î∋‱</b>
FÌSBÊƏFÊGƏĞƏ ÊĞÍÊH€ÊHÎS	Õæ-ÁÙãå^ÁÇ∳FÎ{{Á,¦Á,†ÐÁŞ}&@D;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	ÁÂ,€dÎÍÞ@ÁÁÁ	₩₩G¨ { {	<b>//////</b> €E {
HÎ SE	Õæ-ÁÛãã^ÁÇ∳FJ{{Á;¦Á—HĐÁS,&@D);;;;;;;;	WANN dilbe <i>i</i> k	₩₩\12mm	Á‱∰FÈ€{ {



EV@Á}ãAÍ, ÁFGSÊFÌ SEÁSH åÁHÎ SEÁSHÁBà \*^¦ÁS@H)ÁS@Á}ãAÍ, ÁFGSÊFÌ SÁSH åÁHÎ SÈ

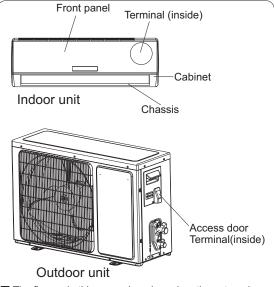
#### 4. Connecting of the Cable

Indoor Unit

Connect the power 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 the 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 follows.
  - 2) Secure the power 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 model between the power source and the unit. A disconnecting device to adequately disconnect all supply lines must be fitted.



The figures in this manual are based on the external view of a standard model. Consequently, the shape may differ from that of the air conditioner you have selected

#### 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.
- 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 areas.

#### Cable Specifications

Capacity (Btu/h)	Power cord		ity (Btu/h) Power cord Power connecting		nnecting cord
	Туре	Normal cross - sectional area	Type	Normal cross - sectional area	
7K~12K	H07RN-F	1.0/1.5mm <sup>2</sup> X3	H05RN-F	0.75mm <sup>2</sup> X4	
/ N~ 12N	H07RN-F	1.0/1.5mm <sup>2</sup> X3	H07RN-F	1.0/1.5mm <sup>2</sup> X5	
7K*~12K*	H05VV-F	1.0/1.5mm <sup>2</sup> X3	H07RN-F	1.0/1.5mm <sup>2</sup> X4	
14K~18K	H07RN-F	1.5mm <sup>2</sup> X3	H05RN-F	0.75mm <sup>2</sup> X4	
	H07RN-F	1.5mm <sup>2</sup> X3	H07RN-F	1.5mm <sup>2</sup> X5	
14K*~18K*	H05VV-F	1.5/2.5mm <sup>2</sup> X3	H07RN-F	1.5/2.5mm <sup>2</sup> X4	
21K~36K	H07RN-F	2.5mm <sup>2</sup> X3	H05RN-F	0.75mm <sup>2</sup> X4	
	H07RN-F	2.5mm <sup>2</sup> X3	H07RN-F	1.0mm <sup>2</sup> X4	
	H07RN-F	2.5mm <sup>2</sup> X3	H07RN-F	2.5mm <sup>2</sup> X5	
21K*~30K*	H05VV-F	2.5mm <sup>2</sup> X3	H07RN-F	2.5mm <sup>2</sup> X4	
21K**~24K**	H05VV-F	1.5mm <sup>2</sup> X3	H07RN-F	1.5mm <sup>2</sup> X4	

**NOTE:** 1.K\* means the power supply of this model comes from indoor unit.

2.K\*\* indicates indoor power supply unit model with power line and plug.

3.For 14K\*~18K\* models under Tropical(T3) Climate condition, the normal cross-sectionl area of Power cord and Power connecting cord is 2.5mm<sup>2</sup>×4.

#### Attention:

The plug must be accessible even after the installation of the appliance in case there is a need to disconnect it. If not possible, connect appliance to a double-pole switching device with contact separation of at least 3 mm placed in an accessible position even after installation.

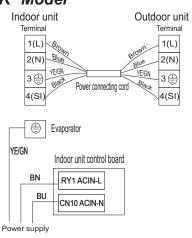
#### Wiring diagram

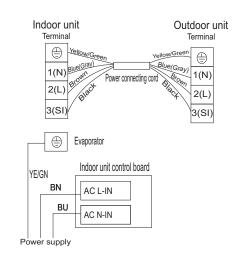
Warning: Before obtaining access to terminals, all supply circuits must be disconnected.

Make sure that the color of the wires in the outdoor unit and terminal No. are the same as those of the indoor unit.

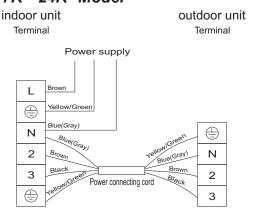
For K\* and K\*\* models, the power supply is connected from the indoor unit with a circuit breaker. The diagram is reference only, and the actual terminal shall prevail.

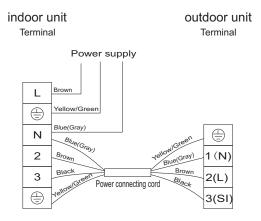
#### • 7K\*~12K\* Model



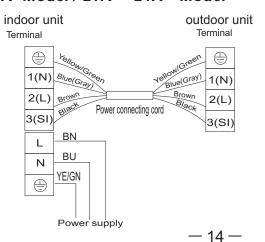


#### • 7K\*~24K\* Model

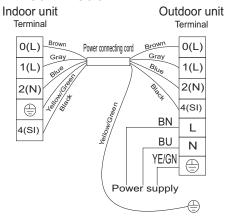


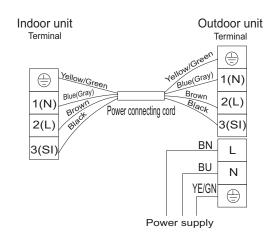


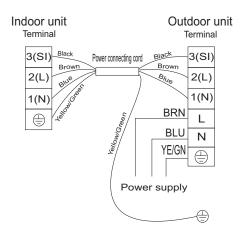
#### • 14K\*~30K\* Model / 21K\*\*~24K\*\* Model



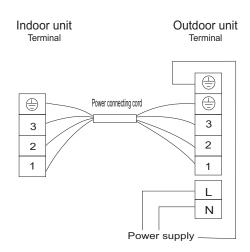
#### • 7K~30K Model





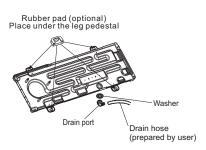


#### • 8K~36K Model



#### **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 not to disturb your neighbor and 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 demonstrates.

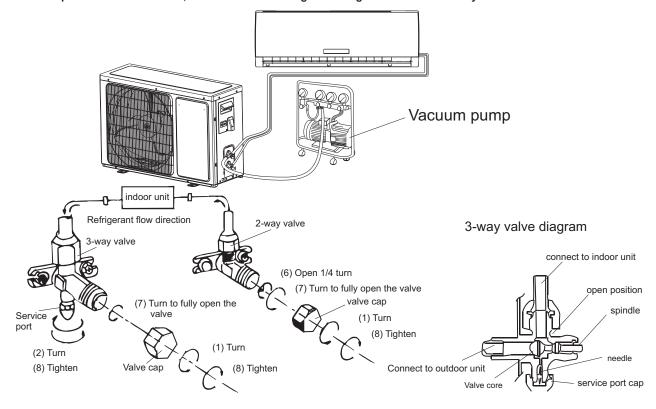


- 2. Install and Fix Outdoor Unit
  - Fix with bolts and nuts tightly on a flat and strong floor. If installed on the wall or roof, make sure to fix the supporter well to prevent it from shaking due to serious vibration or strong wind.
- 3. Outdoor Unit Piping Connection
  - Remove the valve caps from 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, release air and moisture from the refrigerant cycle using a vacuum pump, as shown below.

Note: To protect the environment, be sure not to discharge the refrigerant to the air directly.



#### 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 10 mm Hg absolutes.
- (5) With vacuum pump still running close the low pressure knob on vacuum pump manifold. Then stop the 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 close the valves. Disconnect the flexible vacuum pump hose.
- (8) Replace and tighten all valve caps.