



Operation and Maintenance

# Mini-Split System Inverter – 23 SEER High-Wall Indoor Unit

9,000 to 36,000 Btu/hr – 220V & 115V – 50/60Hz



#### Cooling coil

##### Indoor Units

4MYW2309CF  
4MYW2312CG  
4MYW2312CF  
4MYW2318CF  
4MYW2324CF  
4MYW2336CF

##### Outdoor Units

4TYK2309CF  
4TYK2312CG  
4TYK2312CF  
4TYK2318CF  
4TYK2324CF  
4TYK2336CF

### SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

# Índice

<b>Safety Precautions .....</b>	<b>3</b>
Safety rules and recommendations for the installer....	3
<b>Safety rules and prohibitions .....</b>	<b>4</b>
<b>Outdoor Unit Nomenclature -</b>	
Inverter High Wall Systems .....	5
<b>Indoor Unit Nomenclature -</b>	
Inverter High Wall Systems .....	6
<b>Name of parts .....</b>	<b>8</b>
<b>Remote control .....</b>	<b>9</b>
Replacement of Batteries.....	11
Pipe Length and Additional Refrigerant .....	16
Torque Parameters.....	17
Dedicated Distribution Device and Wire for Air Conditioner .....	17
Step 1: Select Installation location .....	18
Minimum Indoor Clearances.....	18
Step 2: Install Mounting Plate .....	19
Step 3: Drill Wall Hole .....	19
Step 4: Connecting Refrigerant Pipe .....	20
Step 5: Connect Drainage Hose .....	20
Step 6: Connect Wiring .....	21
Step 7: Wrap Piping and Cable.....	21
Step 8: Mount Indoor Unit.....	22
<b>Outdoor Unit Installation .....</b>	<b>22</b>
Step 1: Select Installation Location .....	22
Step 2: Install Drainage Hose .....	22
Step 3: Fix Outdoor Unit.....	23
Step 4: Install Wiring .....	23
Step 5: Connecting Refrigerant Pipe .....	23
Step 6: Vacuum Pumping .....	24
<b>Test Operation .....</b>	<b>25</b>
Inspections Before Test Run.....	25
Test Run Instruction .....	25
<b>Maintenance .....</b>	<b>26</b>
<b>Troubleshooting .....</b>	<b>27</b>
Error Code on the Display .....	28
<b>Disposal Guideline (European) .....</b>	<b>28</b>
<b>Specifications .....</b>	<b>29</b>

# Safety Precautions

## Safety rules and recommendations for the Installer

1. Read this guide before installing and using the appliance.
2. During the installation of the indoor and outdoor units the access to the working area should be forbidden to children. Unforeseeable accidents could happen.
3. Make sure that the base of the outdoor unit is firmly fixed.
4. Check that air cannot enter the refrigerant system and check for refrigerant leaks when moving the air conditioner.
5. Carry out a test cycle after installing the air conditioner and record the operating data.
6. Protect the indoor unit with a fuse of suitable capacity for the maximum input current or with another overload protection device.
7. Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.
8. Check that the socket is suitable for the plug, otherwise have the socket changed.
9. 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.
10. The air conditioner must be installed by professional or qualified persons.
11. Do not install the appliance at a distance of less than 50 cm from inflammable substances (alcohol, etc.) Or from pressurized containers (e.g. spray cans).
12. If the appliance is used in areas without the possibility of ventilation, precautions must be taken to prevent any leaks of refrigerant gas from remaining in the environment and creating a danger of fire.
13. The packaging materials are recyclable and should be disposed of in the separate waste bins. Take the air conditioner at the end of its useful life to a special waste collection center for disposal.
14. Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.
15. The appliance must be installed in accordance with applicable national regulations.
16. Before accessing the terminals, all the power circuits must be disconnected from the power supply.
17. The appliance shall be installed in accordance with national wiring regulations.
18. 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.
19. Do not try to install the conditioner alone, always contact specialized technical personnel.
20. Cleaning and maintenance must be carried out by specialized technical personnel. In any case disconnect the appliance from the mains electricity supply before carrying out any cleaning or maintenance.
21. Ensure that the mains voltage corresponds to that stamped on the rating plate. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.
22. Do not pull out the plug to switch off the appliance when it is in operation, since this could create a spark and cause a fire, etc.
23. This appliance has been made for air conditioning domestic environments and must not be used for any other purpose, such as for drying clothes, cooling food, etc.
24. Always use the appliance with the air filter mounted. The use of the conditioner without air filter could cause an excessive accumulation of dust or waste on the inner parts of the device with possible subsequent failures.

## Safety rules and prohibitions

---

25. The user is responsible for having the appliance installed by a qualified technician, who must check that it is earth in accordance with current legislation and insert a thermos magnetic circuit breaker.
26. 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.
27. Never remain directly exposed to the flow of cold air for a long time. The direct and prolonged exposition to cold air could be dangerous for your health. Particular care should be taken in the rooms where there are children, old or sick people.
28. If the appliance gives off smoke or there is a smell of burning, immediately cut off the power supply and contact the Service Center.
29. The prolonged use of the device in such conditions could cause fire or electrocution.
30. Have repairs carried out only by an authorised Service Centre of the manufacturer. Incorrect repair could expose the user to the risk of electric shock, etc.
31. Unhook the automatic switch if you foresee not to use the device for a long time. The airflow direction must be properly adjusted.
32. The flaps must be directed downwards in the heating mode and upwards in the cooling mode.
33. Ensure that the appliance is disconnected from the power supply when it will remain inoperative for a long period and before carrying out any cleaning or maintenance.
34. Selecting the most suitable temperature can prevent damage to the appliance.

## Safety rules and prohibitions

1. Do not bend, tug or compress the power cord since this could damage it. Electrical shocks or fire are probably due to a damaged power cord. Specialized technical personnel only must replace a damaged power cord.
2. Do not use extensions or gang modules.
3. Do not touch the appliance when barefoot or parts of the body are wet or damp.
4. Do not obstruct the air inlet or outlet of the indoor or the outdoor unit. The obstruction of these openings causes a reduction in the operative efficiency of the conditioner with possible consequent failures or damages.
5. In no way alter the characteristics of the appliance.
6. Do not install the appliance in environments where the air could contain gas, oil or sulphur or near sources of heat.
7. This appliance is not intended for use 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 concerning use of the appliance by a person responsible for their safety.
8. Do not climb onto or place any heavy or hot objects on top of the appliance.
9. Do not leave windows or doors open for long when the air conditioner is operating.
10. Do not direct the airflow onto plants or animals.
11. A long direct exposition to the flow of cold air of the conditioner could have negative effects on plants and animals.
12. Do not put the conditioner in contact with water. The electrical insulation could be damaged and thus causing electrocution.
13. Do not climb onto or place any objects on the outdoor unit.
14. Never insert a stick or similar object into the appliance. It could cause injury.
15. Children should be supervised to ensure that they do not play with the appliance. 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.

## Outdoor Unit Nomenclature - Inverter High Wall Systems

# Outdoor Unit Nomenclature - Inverter High Wall Systems

$\frac{4}{1}$	$\frac{T}{2}$	$\frac{Y}{3}$	$\frac{K}{4}$	$\frac{2}{5}$	$\frac{3}{6}$	$\frac{1}{7}$	$\frac{2}{8}$	$\frac{C}{9}$	$\frac{F}{10}$	$\frac{P}{11}$	$\frac{0}{12}$	$\frac{0}{13}$	$\frac{A}{14}$	$\frac{A}{15}$
<b>Digit #1</b>	=	<b>Refrigerant</b>						<b>Digit #9</b>	=	<b>Major Development Sequence</b>				
	4	=	R-410a						C	=	Third Development Sequence			
<b>Digit #2</b>	=	<b>Brand</b>						<b>Digit #10</b>	=	<b>Electric Power Supply Characteristics</b>				
	T	=	Trane						F	=	220-240/50/60/1			
<b>Digit #3</b>	=	<b>Functional Type</b>							G	=	115/50/60/1			
	Y	=	Cooling Only Inverter					<b>Digit #11</b>	=	<b>Factory Supplied Options</b>				
<b>Digit #4</b>	=	<b>Configuration Outdoor Unit</b>							P	=	Copper Piping Kit			
	K	=	Single Refrigerant Circuit					<b>Digit #12</b>	=	<b>Market served (1:1 systems)</b>				
<b>Digit #5, 6</b>	=	<b>Efficiency Tier</b>							0	=	LAR Market			
	23	=	23 SEER					<b>Digit #13</b>	=	<b>Coil Fin Protection</b>				
<b>Digit #7, 8</b>	=	<b>Nominal Capacity (Btu/h x 1,000)</b>							0	=	Standard*			
	09	=	9,000 Btu/h					<b>Digit #14</b>	=	<b>Minor Design Sequence</b>				
	12	=	12,000 Btu/h						A	=	First Design Sequence			
	18	=	18,000 Btu/h					<b>Digit #15</b>	=	<b>Service Digit</b>				
	24	=	24,000 Btu/h						A	=	First Sequence			
	30	=	30,000 Btu/h											
	36	=	36,000 Btu/h											



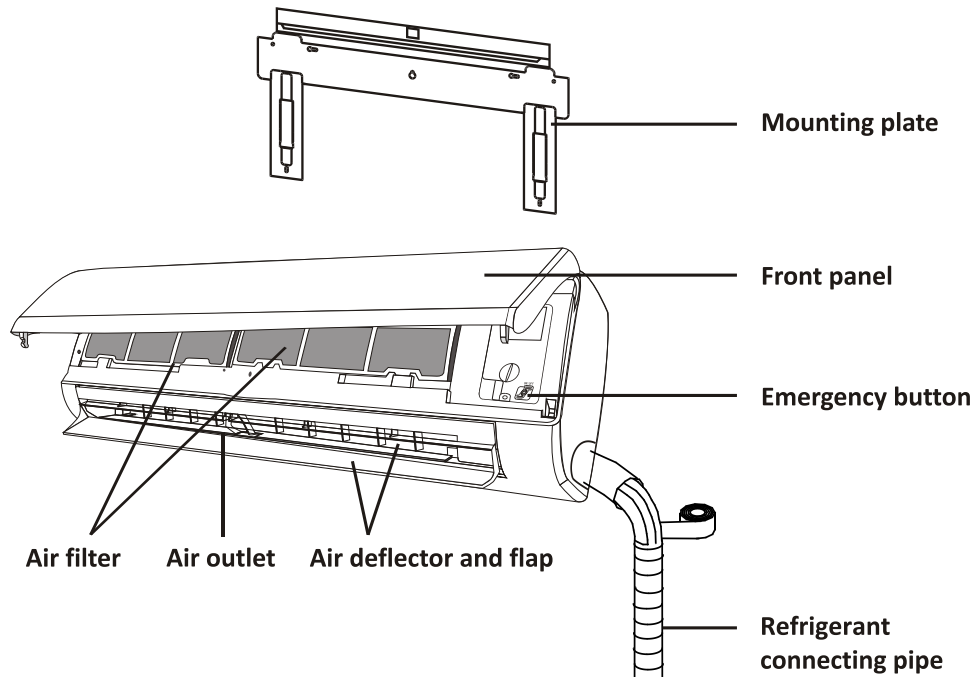
Indoor Unit Nomenclature - Inverter High Wall Systems

# Indoor Unit Nomenclature - Inverter High Wall Systems

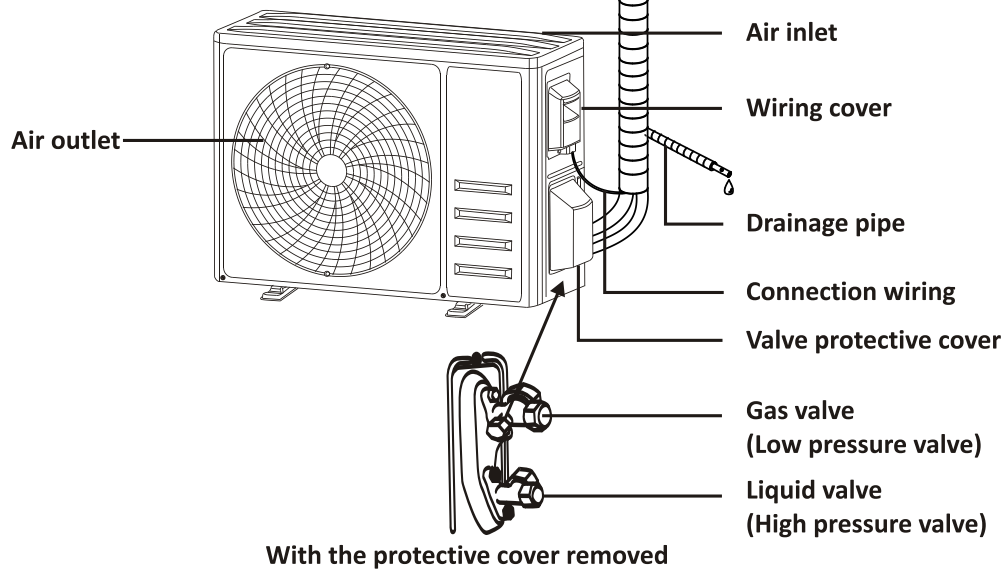
<u>4</u> 1	<u>M</u> 2	<u>Y</u> 3	<u>W</u> 4	<u>2</u> 5	<u>3</u> 6	<u>1</u> 7	<u>2</u> 8	<u>C</u> 9	<u>F</u> 10	<u>0</u> 11	<u>0</u> 12	<u>0</u> 13	<u>A</u> 14	<u>A</u> 15
Digit #1	=	Refrigerant					Digit #9	=	Major Development Sequence					
		4	=	R-410a					C	=			Third Development Sequence	
Digit #2	=	Brand					Digit #10	=	Electric Power Supply Characteristics					
		M	=	Trane Mini-Split High Wall Unit					F	=			220-240/50/60/1	
Digit #3	=	Functional Type							G	=			115/50/60/1	
		Y	=	Cooling Only Inverter			Digit #11	=	Factory Supplied Option					
Digit #4	=	Configuration Indoor Unit							0	=			Not currently used	
		W	=	High Wall Unit			Digit #12	=	Market served (1:1 systems)					
Digit #5, 6	=	Efficiency Tier							0	=			LAR Market	
		23	=	23 SEER			Digit #13	=	Panel Type					
Digit #7, 8	=	Nominal Capacity (Btu/h x 1,000)							0	=			White Panel	
		09	=	9,000 Btu/h			Digit #14	=	Minor Design Sequence					
		12	=	12,000 Btu/h					A	=			First Design Sequence	
		18	=	18,000 Btu/h			Digit #15	=	Service Digit					
		24	=	24,000 Btu/h					A	=			First Sequence	
		30	=	30,000 Btu/h										
		36	=	36,000 Btu/h										

# Name of parts

## Indoor Unit



## Outdoor Unit

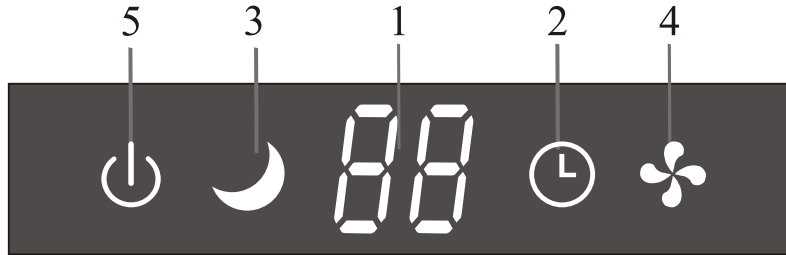








### Note

This figure shown may be different from the actual object. Please take the latter as the standard.

## Name of parts

### Indoor Display



No.	LED	Function
1		Indicator for Timer, temperature and Error codes.
2	 	Lights up during Timer operation.
3		SLEEP mode
4		The symbol appears when the unit is turned on, and disappear when the unit is turned off.
5		The symbol appears when power on.

### Warning

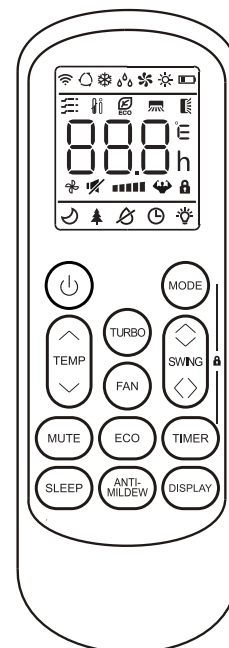
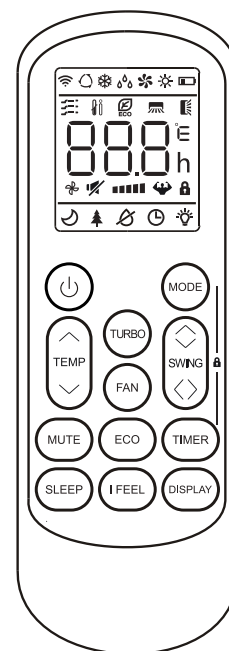
The shape and position of switches and indicators may be different according to the model, but their function is the same.



# Remote control

## Remote control Display




No.	Symbols	Meaning
1		Battery indicator
2		Auto Mode
3		Cooling Mode
4		Dry Mode
5		Fan only Mode
6		Heating Mode
7		ECO Mode
8		Timer
9		Temperature indicator
10		Fan speed: Auto/ low/ low-mid/ mid/ mid-high/ high
11		Mute function
12		TURBO function
13		Up-down auto swing
14		Left-right auto swing
15		SLEEP function
16		Health function
17		1 FEEL function
18		Signal indicator
19		Gentle wind
20		Child-Lock
21		Display ON/OFF
22		Anti-Mildew



### Warning

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

# Remote control

No.	Botón	Function
1		To turn on/off the air conditioner.
2	^	To decrease temperature, or Timer setting hours.
3	v	To increase temperature, or Timer setting hours.
4	MODE	To select the mode of operation (AUTO, COOL, DRY, FAN, HEAT).
5	ECO	To activate/deactivate the ECO function.
		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/low/mid/high.
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	SWING 	To stop or start horizontal louver movement or set the desired up/down air flow direction.
12	SWING < >	To stop or start horizontal 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.
		Long press to activate/deactivate the GEN function (depending on models).
15	ANTI-MILDEW	To switch-on/off the ANTI-MILDEW function.
16	MODE + TIMER	To activate/deactivate the CHILD-LOCK function.
17	SWING  + SWING < >	To activate/deactivate the SELF-CLEAN function (depending on models).
18	FAN + MUTE	To activate/deactivate the GENTLE WIND function (depending on models).
19	SLEEP + DISPLAY	To activate/deactivate the HEALTH function (depending on models).

## Warning

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

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

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.

### Warning

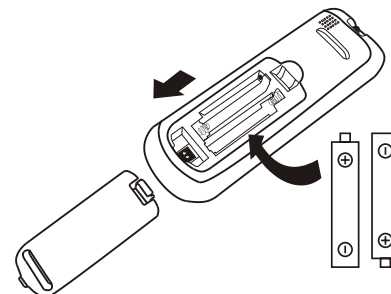
Use 2 pieces LR03 AAA (1.5V) batteries.

Do not use rechargeable batteries. Replace the old batteries with new ones of the same type when the display is no longer legible.

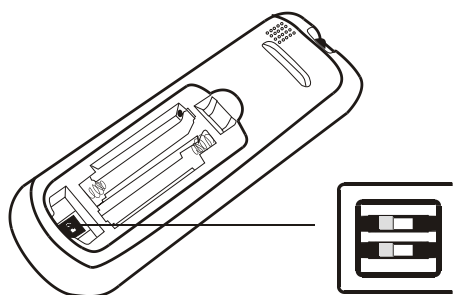
Do not dispose batteries as unsorted municipal waste.

Collection of such waste separately for special treatment is necessary.

For some model of remote controller, open the battery cover, and you can see the manual switch at the bottom, then you can select the Cooling only or Heating pump, operate as below.



DIP switch on position	Function
°C	The display is adjusted in degree Celsius.
°F	The display is adjusted in degree Fahrenheit.
Cool	The display is adjusted in only cooling mode
Heat	The display is adjusted in cooling and heating mode



### 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.

## Remote control

### Cooling Mode

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  $\nabla$   $\circ$   $\wedge$  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** 🌬️ This function reduces the humidity of the air to make the room more comfortable.

To set the DRY mode, Press **MODE** until 🌬️ appears in the display. An automatic function of pre-setting is activated.

### Auto Mode

**AUTO** 🔄 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  $\nabla$   $\circ$   $\wedge$  set a temperature higher than that of the room.

### ⚠️ Warning

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.

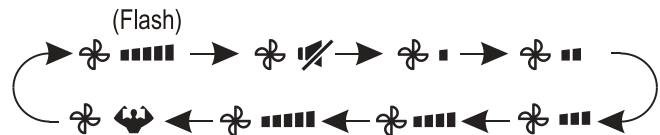
(For North American market)

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 more fast.

### Fan Speed Function (Fan button)

**FAN** ❄️ Change the operating fan speed.

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



### Child-Lock function

1. 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

**TIMER** 🕒 To automatic switch on the appliance.

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



1. Press **TIMER** button first time to set the switch-on, 🕒 and [60h] will appear on the remote display and flashes.
2. Press  $\nabla$  or  $\wedge$  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  $\nabla$  or  $\wedge$  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  button at first time to set the switch-off.
3. Press  $\downarrow$   $\circ$   $\uparrow$  to set the needed timer.
4. Press  button at the second time to confirm.

### 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  to activate the horizontal flaps to swing from up to down, the  will appear on the remote display. Press again to stop the swing movement at the current angle.
  - 1.2 Press  to activate the vertical deflectors to swing from left to right, the  will appear on the remote display. Press again to stop the swing movement at the current angle.
2. If the vertical deflectors are positioned manually which placed under the flaps, they allow to move the air flow direct to rightward or leftward.
3. For some inverter heating models, press horizontal SWING and vertical SWING together button at the same time, it will activate the Self-Clean function.

### Warning



This adjustment must be done while the appliance is switched off.

Never position "Flaps" manually, the delicate mechanism might 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



To activate turbo function, press the  button, and  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





1. Press  button to active this function, and  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 be quiet feeling.
3. When press FAN/TURBO/SLEEP button, the MUTE function will be cancel. MUTE function can not be activated under dry mode.

### Function Sleep





 Pre-setting automatic operating program.

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

After 10 hours running in sleep mode, the air conditioner will change to the previous setting mode.

### I Feel function (Optional)




Press  button to activate 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.

### Eco function



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

Press the  button, the  appears on the display, and the appliance will run in ECO mode. Press again to cancel it.

## Remote control

### Note

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

### 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.

### Anti-Mildew function (Optional)



Press **ANTI-MILDEW** button to activate the ANTI-MILDEW function,  will appear on the display. Do it again to deactivate this function. After running COOL/ DRY for more than 30 minutes, you can operate this function, the unit will blow airflow for about 15 minutes to dry the inner parts to avoid milder then shuts off the unit.


### Note

ANTI-MILDEW function only available in DRY/COOLING mode.

### 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 **SWING** and **SWING** button at the same time toward the indoor unit, until hear a beep, and **AC** will appear on the remote controller display and the indoor LED 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  button to cancel this function during the process. You will hear 2 beeps when it's finished or cancelled.

### Warning

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)

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


### 8°C heating function (Optional)

1. Long press **ECO** button over 3 seconds to active this function, and **8°C** (**46°F**) will appear on the remote display. Do it again to deactivate this function.
2. 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).
3. If the room temperature is higher than 18°C (64°F), the appliance will cancel this function automatically.

### Gentle Wind function (Optional)

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

### Health function (Optional)

1. Turn on the indoor unit at first, and long press **SLEEP** and **DISPLAY** button together 3 seconds 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.

### Gen function (Optional)

1. Turn on the indoor unit at first, and long press **[MUTE]** button 3 seconds to active, and do it again to deactivate this function.
2. Under this function, short press **[MUTE]** button to select the General type L3 - L2 - LI - OF.
3. Select OF and wait 2 seconds to exit it.

## Operation Instructions

Attempt to use the air conditioner under the temperature beyond the specified range may cause the air conditioner protection device to start and the air conditioner may fail to operate. Therefore, try to use the air conditioner in the following temperature conditions.

ON-OFF air conditioner:

MODE Temperature	Heating	Cooling	Dry
Room temperature	0°C~27°C(32°F~80°F)	17°C~32°C(63°F~90°F)	
Outdoor temperature	-7°C~24°C(19°F~75°F)	T1 climate: 15°C~43°C(59°F~109°F)	
		T3 climate: 15°C~52°C(59°F~125°F)	

Inverter air conditioner

MODE Temperature	Heating	Cooling	Dry
Room temperature	0°C~27°C	17°C~32°C(63°F~90°F)	
Outdoor temperature	-15°C~24°C	T1 climate: 15°C~50°C(59°F~122°F) (Low temperature cooling:	
	(Low temperature heating: -20°C~24°C)	-15°C~50°C(5°F~122°F))	
		T3 climate:15°C~55°C(59°F~131°F)	

With the power supply connected, restart the air conditioner after shutdown, or switch it to other mode during operation, and the air conditioner protection device will start. The compressor will resume operation after 3 minutes.

### Characteristics of heating operation (applicable to Heat pump models)

#### Preheating:

When the heating function is enabled, the indoor unit will take 2~5 minutes for preheating, after that the air conditioner will start heating and blows warm air.

#### Defrosting:

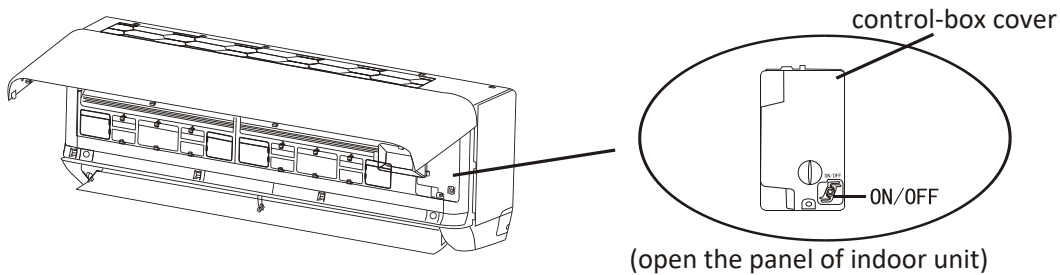
During heating, when the outdoor unit frosted, the air conditioner will enable the automatic defrosting function to improve the heating effect. During defrosting, the indoor and outdoor fans stop running. The air conditioner will resume heating automatically after defrosting finish.

#### Emergency button:

Open the panel and find the emergency button on the electronic control box when the remote controller fails. (Always press the emergency button with insulation material.)

## Precauciones de Instalación

Current status	Operation	Respond	Enter mode
Standby	Press the emergency button once	It beeps briefly once.	Cooling mode
Standby (Only for Heat pump models)	Press the emergency button twice in 3 seconds	It beeps briefly twice.	Heating mode
Running	Press the emergency button once	It keeps beeping for a while	Off mode



## Precauciones de Instalación

### Pipe Length and Additional Refrigerant

Inverter Models Capacity (Btu/h)	9K-12K	18K-24K	30K-36K
Length of pipe with standard charge	5m/16ft	5m/16ft	5m/16ft
Length of pipe with standard charge (Like: North American, etc.)	7.5m/24ft	7.5m/24ft	7.5m/24ft
Maximum distance between indoor and outdoor unit	15m/49ft	25m/82 ft	30m/98ft
Additional refrigerant charge	20g/m	30g/m	30g/m
Max. diff. in level between indoor and outdoor unit	10m/32ft	15m/48ft	20m/65ft
Type of refrigerant	R410A	R410A	R410A



## Torque Parameters

PIPE Size	Newton meter[N x m]	Pound-force foot (lbf-ft)	Kilogram-force meter (kgf-m)
1/4 " (Φ6.35)	15 - 20	11.1 - 14.8	1.5 - 2.0
3/8 " (Φ9.52)	31 - 35	22.9 - 25.8	3.2 - 3.6
1/2 " (Φ12)	45 - 50	33.2 - 36.9	4.6 - 5.1
5/8 " (Φ15.88)	60 - 65	44.3 - 48.0	6.1 - 6.6

## Dedicated Distribution Device and Wire for Air Conditioner

Min. Circuit Ampacity of Air Conditioner (A)	Minimum Wire Cross-sectional Area (mm <sup>2</sup> )	Specification of Socket or Switch (A)	Fuse Specification (A)
≤8	0.75	15	15
>8 and ≤10	1.0	15	15
>10 and ≤15	1.5	20	25
>15 and ≤24	2.5	25	40
>24 and ≤28	4.0	35	45
>28 and ≤32	6.0	40	55

### Note

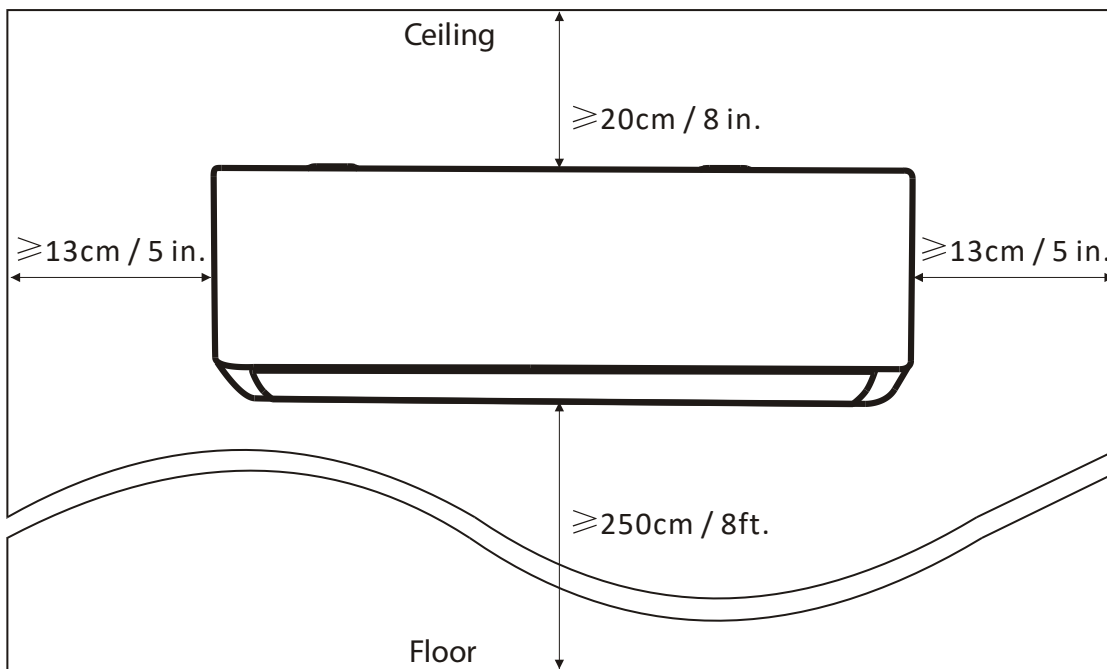
This table is only for reference, the installation shall meet the requirements of local laws and regulations.

# Indoor Unit Installation

## Step 1: Select Installation location

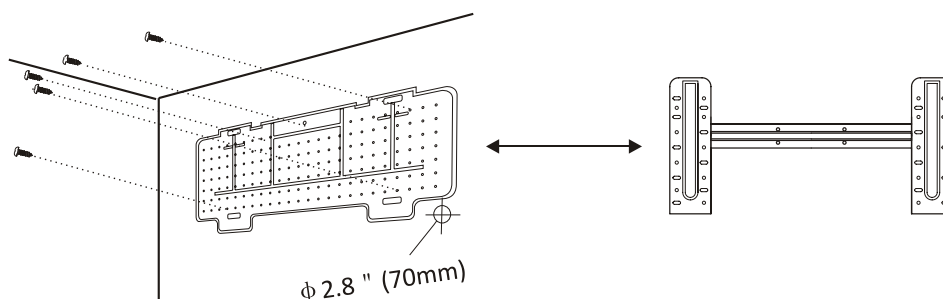
1. Ensure the installation complies with the installation minimum dimensions (defined below) and meets the minimum and maximum connecting piping length and maximum change in elevation as defined in the System Requirements section.
2. Air inlet and outlet will be clear of obstructions, ensuring proper airflow throughout the room.
3. Condensate can be easily and safely drained.
4. All connections can be easily made to outdoor unit.
5. Indoor unit is out of reach of children.
6. A mounting wall strong enough to withstand four times the full weight and vibration of the unit.
7. Filter can be easily accessed for cleaning.
8. Leave enough free space to allow access for routine maintenance.
9. Install at least 10 ft. (3 m) away from the antenna of TV set or radio. Operation of the air conditioner may interfere with radio or TV reception in areas where reception is weak. An amplifier may be required for the affected device.
10. Do not install in a laundry room or by a swimming pool due to the corrosive environment.
11. For ETL certification area, Caution: Mount with the lowest moving parts at least 8 ft. (2.4 m) above floor or grade level.

## Minimum Indoor Clearances



### Step 2: Install Mounting Plate

1. Take the mounting plate from the back of indoor unit.
2. Ensure to meet the minimum installation dimension requirements as step 1, according to the size of mounting plate, determine the position and stick the mounting plate close to the wall.
3. Adjust the mounting plate to a horizontal state with a spirit level, then mark out the screw hole positions on the wall.
4. Put down the mounting plate and drill holes in the marked positions with drill.
5. Insert expansion rubber plugs into the holes, then hang the mounting plate and fix it with screws.



#### Note

- (I) Make sure the mounting plate is firm enough and flat against the wall after installation.
- (II) This figure shown may be different from the actual object, please take the latter as the standard.

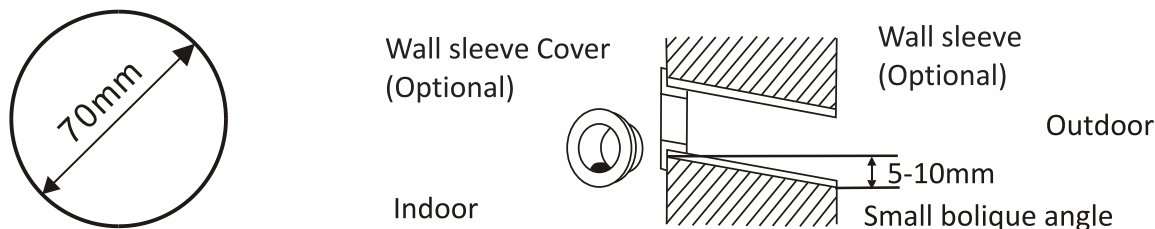
### Step 3: Drill Wall Hole

A hole in the wall should be drilled for refrigerant piping ,the drainage pipe, and connecting cables.

1. Determine the location of wall hole base on the position of mounting plate.
2. The hole should be have a 70mm diameter at least and a small oblique angle to facilitate drainage.
3. Drill the wall hole with 70mm core drill and with small oblique angle lower than the indoor end about 5mm to 10mm.
4. Place the wall sleeve and wall sleeve cover(both are optional parts) to protect the connection parts.

#### ⚠ Caution

When drill the wall hole, maker sure to avoid wires, plumbing and other sensitive components.

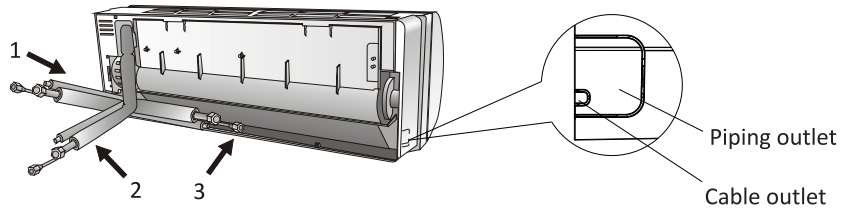


## Step 4: Connecting Refrigerant Pipe

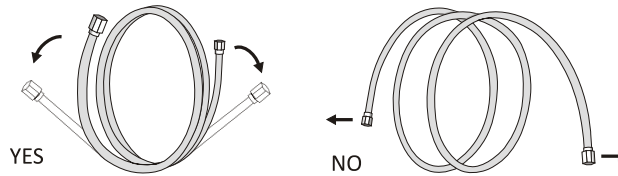
1. According to the wall hole position, select the appropriate piping mode. There are three optional piping modes for indoor units as shown in the figure below: In Piping Mode 1 or Piping Mode 3, a notch should be made by using scissors to cut the plastic sheet of piping outlet and cable outlet on the corresponding side of the indoor unit.

### Note

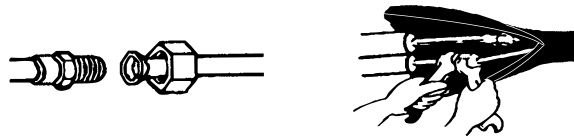
When cutting off the plastic sheet at the outlet, the cut should be trimmed to smooth.



2. Bending the connecting pipes with the port facing up as shown in the figure.

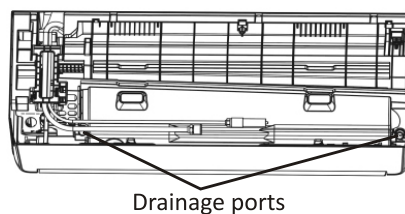


3. Take off the plastic cover in the pipe ports and take off the protective cover on the end of piping connectors.
4. Check whether there is any sundry on the port of the connecting pipe and make ensure the port is clean.
5. After align the center, rotate the nut of the connecting pipe to tighten the nut as tightly as possible by hand.
6. Use a torque wrench to tighten it according to the torque values in the torque requirements table; (Refer to the torque requirements table on section INSTALLATION PRECAUTIONS)
7. Wrap the joint with the insulation pipe.



## Step 5: Connect Drainage Hose

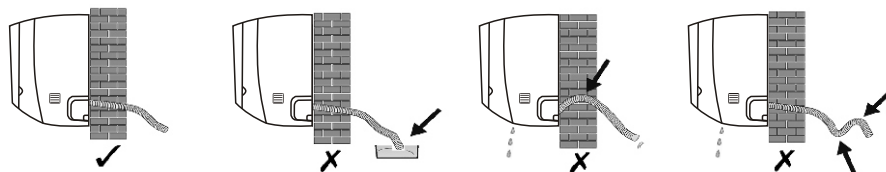
1. Adjust the drainage hose(if applicable)  
In some model, both sides of the indoor unit are provided with drainage ports, you can choose one of them to attache the drainage hose. And plug the unused drain port with the rubber attached in one of the ports.



2. Connect the drainage hose to the drainage port, ensure the joint is firm and the sealing effect is good.
3. Wrap the joint firmly with teflon tape to ensure no leaks.

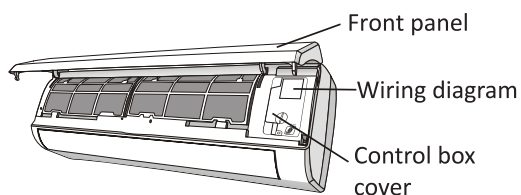
### Note

Make sure there is no twists or dents, and the pipes should be placed obliquely downward to avoid blockage, to ensure proper drainage.



## Step 6: Connect Wiring

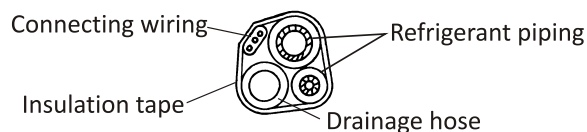
1. Choose the right cables size determined by the maximum operating current on the nameplate. (Check the cables size refer to section INSTALLATION PRECAUTIONS)
2. Open the front panel of indoor unit.
3. Use a screwdriver, open the electric control box cover, to reveal the terminal block.
4. Unscrew the cable clamp.
5. Insert one end of the cable into the position of control box from the back of the right end of the indoor unit.
6. Connect the wires to corresponding terminal according to the wiring diagram on the electric control box cover. And make sure that they are well connected.
7. Screw the cable clamp to fasten the cables.
8. Reinstall the electric control box cover and front panel.



## Step 7: Wrap Piping and Cable

After the refrigerant pipes, connecting wires and drainage hose are all installed, in order to save space, protect and insulate them, it must be bundle with insulating tape before passing them through the wall hole.

1. Arrange the pipes .cables and drainage hose well as the following picture.

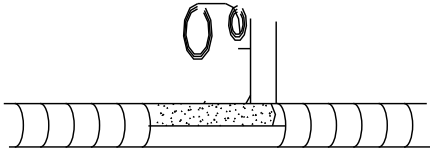


### Note

- (I) Make sure the drainage hose is at the bottom.
- (II) Avoid crossing and bending of parts.

## Outdoor Unit Installation

- Using the insulating tape wrap the refrigerant pipes, connecting wires and drainage hose together tightly.



## Step 8: Mount Indoor Unit

- Slowly pass the refrigerant pipes, connecting wires and drainage hose wrapped bundle through the wall hole.
- Hook the top of indoor unit on the mounting plate.
- Apply slight pressure to the left and right sides of the indoor unit, make sure the indoor unit is hooked firmly.
- Push down the bottom of indoor unit to let the snaps onto the hooks of the mounting plate, and make sure it is hooked firmly.

Sometimes, if the refrigerant pipes were already embedded in the wall, or if you want to connecting the pipes and wires on the wall, do as below:

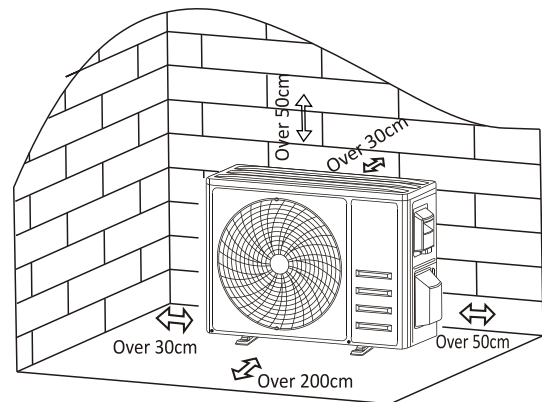
- Hook the top of the indoor unit on the mounting plate without piping and wiring.
- Lift the indoor unit opposite the wall, unfold the bracket on the mounting plate, and use this bracket to prop up the indoor unit, there will be a big space for operation.
- Do the refrigerant piping, wiring, connect drainage hose, and wrap them as Step 4 to 7.

# Outdoor Unit Installation

## Step 1: Select Installation Location

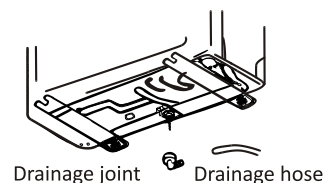
Select a site that allows for the following:

- Do not install the outdoor unit near sources of heat, steam or flammable gas.
- Do not install the unit in too windy or dusty places.
- Do not install the unit where people often pass. Select a place where the air discharge and operating sound will not disturb the neighbors.
- Avoid installing the unit where it will be exposed to direct sunlight (other wise use a protection, if necessary, that should not interfere with the air flow).
- Reserve the spaces as shown in the picture for the air to circulate freely.
- Install the outdoor unit in a safe and solid place.
- If the outdoor unit is subject to vibration, place rubber blankets onto the feet of the unit.



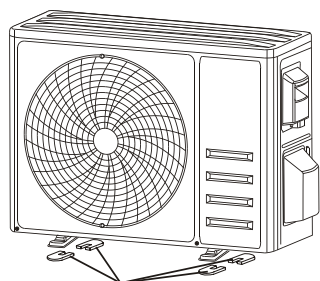
## Step 2: Install Drainage Hose

- This step only for heating pump models.
- Insert the drainage joint to the hole at the bottom of the outdoor unit.
- Connect the drainage hose to the joint and make the connection well enough.



### Step 3: Fix Outdoor Unit

1. According to the outdoor unit installation dimensions to mark the installation position for expansion bolts.
2. Drill holes and clean the concrete dust and place the bolts.
3. If applicable install 4 rubber blankets on the hole before place the outdoor unit (Optional). This will reduce vibrations and noise.
4. Place the outdoor unit base on the bolts and pre-drilled holes.
5. Use wrench to fix the outdoor unit firmly with bolts.



Install 4 rubber blankets (Optional)

### Note

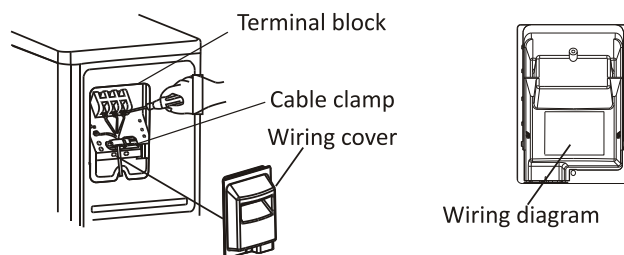
The outdoor unit can be fixed on a wall-mounting bracket. Follow the instruction of the wall-mounting bracket to fix the wall-mounting bracket on the wall, and then fasten the outdoor unit on it and keep it horizontal. The wall-mounting bracket must be able to support at least 4 times of the weight of outdoor unit.

### Step 4: Install Wiring

1. Use a phillips screwdriver to unscrew wiring cover, grasp and press it down gently to take it down.
2. Unscrew the cable clamp and take it down.
3. According to the wiring diagram pasted inside the wiring cover, connect the connecting wires to the corresponding terminals, and ensure all connections are firmly and securely.
4. Reinstall the cable clamp and wiring cover.

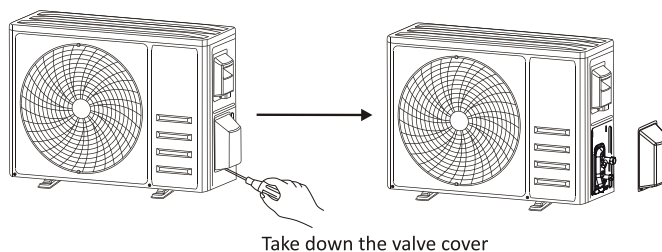
### Note

When connecting the wires of indoor and outdoor units, the power should be cut off.

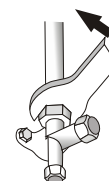
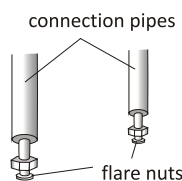


### Step 5: Connecting Refrigerant Pipe

1. Unscrews the valve cover, grasp and press it down gently to take it down (if the valve cover is applicable).
2. Remove the protective caps from the end of valves.
3. Take off the plastic cover in the pipe ports and check whether there is any sundry on the port of the connecting pipe and make ensure the port is clean.
4. After align the center, rotate the flare nut of the connecting pipe to tighten the nut as tightly as possible by hand.
5. Use a spanner hold the body of the valve and use a torque wrench to tighten the flare nut according to the torque values in the torque requirements table. (Refer to the torque requirements table on section **INSTALLATION PRECAUTIONS**).

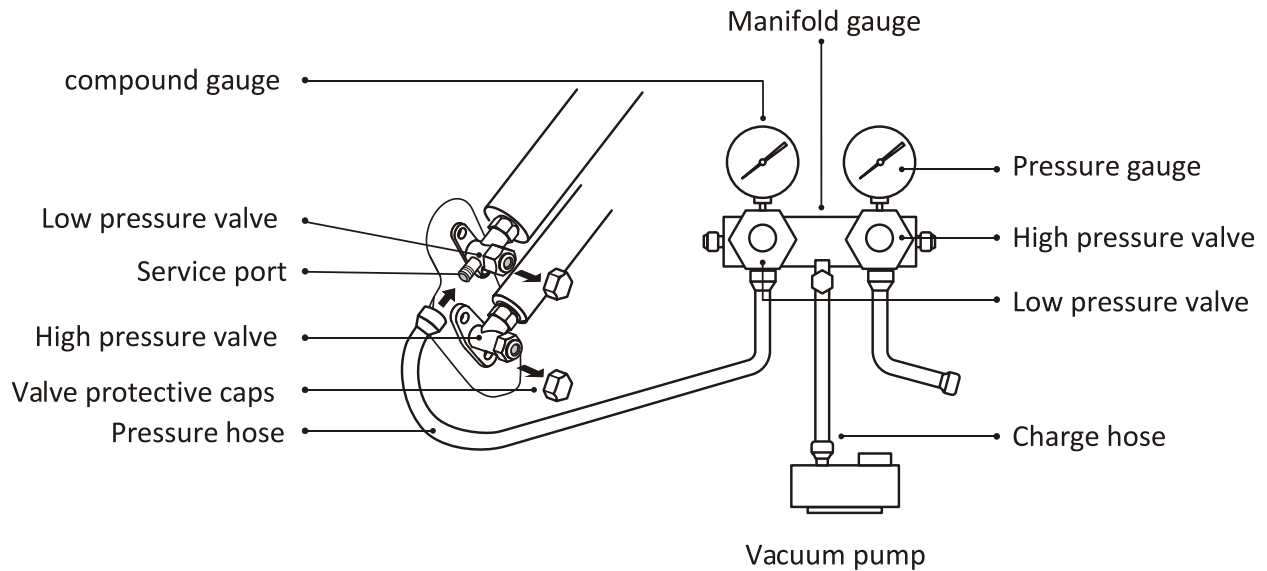


Take down the valve cover



## Step 6: Vacuum Pumping

1. Use a spanner to take down the protective caps from the service port, low pressure valve and high pressure valve of the outdoor unit.
2. Connect the pressure hose of manifold gauge to the service port on the outdoor unit low pressure valve.
3. Connect the charge hose from the manifold gauge to the vacuum pump.
4. Open the low pressure valve of the manifold gauge and close the high pressure valve.
5. Turn on the vacuum pump to vacuum the system, use a vacuum meter.
6. When the vacuum meter reach 500 microns, close the valve, and turn off the vacuum pump. If the value indicated by vacuum meter does not rise above 600 microns, vacuum is finished.
7. If the value indicated by vacuum meter rise above 1000 microns, you need to check for leaks (use nitrogen & pressure regulator - Safety rules must be followed).
11. If no leaks, technician can fully open the low pressure valve and high pressure valve of the outdoor unit with hexagonal wrench.
12. Reinstall the protective caps of the service port, low pressure valve and high pressure valve of the outdoor unit.
13. Reinstall the valve cover.





# Test Operation

## Inspections Before Test Run

Do the following checks before test run.

Description	Inspection method
Electrical safety inspection	<ul style="list-style-type: none"> <li>• Check whether the power supply voltage complies with specification.</li> <li>• Check whether there is any wrong or missing connection between the power lines, signal line and earth wires.</li> <li>• Check whether the earth resistance and insulation resistance comply with requirements.</li> </ul>
Installation safety inspection	<ul style="list-style-type: none"> <li>• Confirm the direction and smoothness of drainage pipe.</li> <li>• Confirm that the joint of refrigerant pipe is installed completely.</li> <li>• Confirm the safety of outdoor unit, mounting plate and indoor unit installation.</li> <li>• Confirm that the valves are fully open.</li> <li>• Confirm that there are no foreign objects or tools left inside the unit.</li> <li>• Complete installation of indoor unit air inlet grille and panel.</li> </ul>
Refrigerant leakage detection	<ul style="list-style-type: none"> <li>• The piping joint, the connector of the two valves of the outdoor unit, the valve spool, the welding port, etc., where leakage may occur.</li> <li>• Foam detection method: <ul style="list-style-type: none"> <li>• Apply soapy water or foam evenly on the parts where leakage may occur, and observe whether bubbles appear or not, if not, it indicates that the leakage detection result is safe.</li> </ul> </li> <li>• Leak detector method: <ul style="list-style-type: none"> <li>• Use a professional leak detector and read the instruction of operation, detect at the position where leakage may occur.</li> <li>• The duration of leak detection for each position should last for 3 minutes or more; If the test result shows that there is leakage, the nut should be tightened and tested again until there is no leakage; After the leak detection is completed, wrap the exposed pip connector of indoor unit with thermal insulation material and wrap with insulation tape.</li> </ul> </li> </ul>


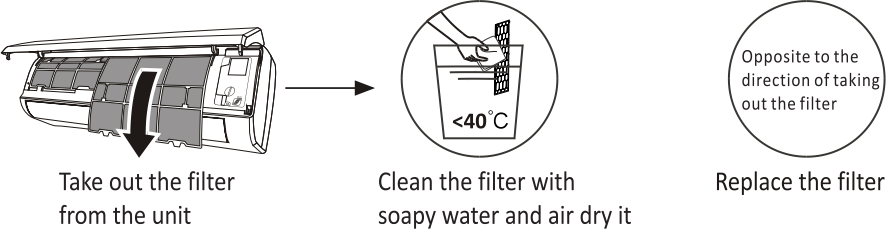
## Test Run Instruction

1. Turn on the power supply.
2. Press the ON/OFF button on the remote controller to turn on the air conditioner.
3. Press the Mode button to switch the mode COOL and HEAT. In each mode set as below:  
COOL-Set the lowest temperature HEAT-Set the highest temperature
4. Run about 8 minutes in each mode and check all functions are properly run and respond the remote controller. Functions check as recommended:
  - 4.1 If the outlet air temperature respond the cool and heat mode
  - 4.2 If the water drains properly from the drainage hose
  - 4.3 If the Louver and deflectors(optional) rotate properly
5. Observe the test run state of the air conditioner at least 30 minutes.
6. After the successfully test run, return the normal setting and press ON/OFF button on the remote controller to turn off the unit.
7. Inform the user to read this manual carefully before use, and demonstrate to the user how to use the air conditioner, the necessary knowledge for service and maintenance, and the reminder for storage of accessories.

### Note

If the ambient temperature is excess the range refer to section OPERATION INSTRUCTIONS, and it can not run COOL or HEAT mode, lift the front panel and refer to the emergency button operation to run the COOL and HEAT mode.

# Maintenance

<p><b>Warning</b></p>	<ul style="list-style-type: none"> <li>• When cleaning, you must shut down the machine and cut off the power supply for more than 5 minutes.</li> <li>• Under no circumstances should the air conditioner be flushed with water.</li> <li>• Volatile liquid (e.g. thinner or gasoline) will damage the air conditioner, so only use soft dry cloth or wet cloth dipped with neutral detergent to clean the air conditioner.</li> <li>• Pay attention to cleaning the filter screen regularly to avoid dust covering which will affect the filter screen effect. When the operating environment is dusty, the cleaning frequency should be increased appropriately.</li> <li>• After removing the filter screen, do not touch the fins of the indoor unit to avoid scratching.</li> </ul>
<p><b>Clean the unit</b></p>	 <p>Wring it dry Gentle wipe the unit surface Wring it dry Gentle wipe the unit surface</p> <p>Tip: Wipe frequently to keep air conditioner clean and good appearance.</p>
<p><b>Clean the filter</b></p>	 <p>Take out the filter from the unit      Clean the filter with soapy water and air dry it      Replace the filter</p> <p>Opposite to the direction of taking out the filter</p> <p>Tip: When you find accumulated dust in the filter, please clean the filter in time to ensure the clean, healthy and efficient operation inside the air conditioner.</p>
<p><b>Service and maintenance</b></p>	<ul style="list-style-type: none"> <li>• When the air conditioner is not in use for a long time, do the following work: Take out the batteries of the remote controller and disconnect the power supply of the air conditioner.</li> <li>• When starting to use after long-term shutdown:             <ol style="list-style-type: none"> <li>1. Clean the unit and filter screen;</li> <li>2. Check whether there are obstacles at the air inlet and outlet of indoor and outdoor units;</li> <li>3. Check whether the drain pipe is unobstructed;</li> </ol> </li> </ul> <p>Install the batteries of the remote controller and check whether the power is on.</p>

# Troubleshooting

MALFUNCTION	POSSIBLE CAUSES
The appliance does not operate	Power failure/plug pulled out.
	Damaged indoor/outdoor unit fan motor.
	Faulty compressor thermomagnetic circuit breaker.
	Faulty protective device or fuses.
	Loose connections or plug pulled out.
	It sometimes stops operating to protect the appliance.
	Voltage higher or lower than the voltage range.
	Active TIMER-ON function.
	Damaged electronic control board.
Strange odor	Dirty air filter.
Noise of running water	Back flow of liquid in the refrigerant circulation.
A fine mist comes from the air outlet	This occurs when the air in the room becomes very cold, for example in the "COOLING" or "DEHUMIDIFYING/DRY" modes.
A strange noise can be heard	This noise is made by the expansion or contraction of the front panel due to variations in temperature and does not indicate a problem.
Insufficient airflow, either hot or cold	Unsuitable temperature setting.
	Obstructed air conditioner intakes and outlets.
	Dirty air filter.
	Fan speed set at minimum.
	Other sources of heat in the room.
	No refrigerant.
The appliance does not respond to commands	Remote control is not close enough to indoor unit.
	The batteries of remote control need to be replaced.
	Obstacles between remote control and signal receiver in indoor unit.
The display is off	Active DISPLAY function.
	Power failure.
Switch off the air conditioner immediately and cut off the power supply in the event of:	Strange noises during operation.
	Faulty electronic control board.
	Faulty fuses or switches.
	Spraying water or objects inside the appliance.
	Overheated cables or plugs.
	Very strong smells coming from the appliance.

# Troubleshooting

## Error Code on the Display

In case of error, the display on the indoor unit shows the following error codes:

Display	Description of the trouble
E1	Indoor room temperature sensor fault
E2	Indoor pipe temperature sensor fault
E3	Outdoor pipe temperature sensor fault
E4	Refrigerant system leakage or fault
E6	Malfunction of indoor fan motor
E7	Outdoor ambient temperature sensor fault
E0	Indoor and outdoor communication fault
E8	Outdoor discharge temperature sensor fault
E9	Outdoor IPM module fault
EA	Outdoor current detect fault
EE	Outdoor PCB EEPROM fault
EF	Outdoor fan motor fault
EH	Fallo dei sensor de temperatura de succión exterior

## Disposal Guideline (European)

This appliance contains refrigerant and other potentially hazardous materials. When disposing of this appliance, the law requires special collection and treatment. DO NOT dispose of this product as household waste or unsorted municipal waste. When disposing of this appliance, you have the following options:

- Dispose of the appliance at designated municipal electronic waste collection facility.
- When buying a new appliance, the retailer will take back the old appliance free of charge.
- The manufacturer will also take back the old appliance free of charge.
- Sell the appliance to certified scrap metal dealers.
- Disposing of this appliance in the forest or other natural surroundings endangers your health and is bad for the environment. Hazardous substances may leak into the ground water and enter the food chain..



# Specifications

## Cooling only Technical Specifications (Mini All LAR)

Model No.	9K 220V Cooling Only 4MYW2309CF000AA 4TYK2309CF000AA	12K 115V Cooling Only 4MYW2312CG000AA 4TYK2312CG000AA	12K 220V Cooling Only 4MYW2312CF000AA 4TYK2312CF000AA	18K 220V Cooling Only 4MYW2318CF000AA 4TYK2318CF000AA	24K 220V Cooling Only 4MYW2324CF000AA 4TYK2324CF000AA	36K 220V Cooling Only 4MYW2336CF000AA 4TYK2336CF000AA
Trane IDU	9000	12000(2047~12625) 3517(600~3700)	12000(2047~12625) 3517(600~3700)	18000(5118~16595) 5275(1500~5450)	24000(6140~24900) 7000 (1800~7300)	36000(7500~38150) 10550(2200~11180)
Trane ODU	4TYK2309CF000AA	4TYK2312CG000AA	4TYK2312CF000AA	4TYK2318CF000AA	4TYK2324CF000AA	4TYK2336CF000AA
Type	Cooling only	Cooling only	Cooling only	Cooling only	Cooling only	Cooling only
Control type	Remote	Remote	Remote	Remote	Remote	Remote
Rated cooling capacity	Btu/h	9000	12000(2047~12625) 3517(600~3700)	12000(2047~12625) 3517(600~3700)	18000(5118~16595) 5275(1500~5450)	24000(6140~24900) 7000 (1800~7300)
EER for cooling	W	2745	3.35	3.45	3.25	3.25
EER for heating	W/W	>3.45	/	/	/	/
COP for heating		/	/	/	/	/
SEER	Btu/W.h	23SEER	20.00	20.00	20.00	18.00
Moisture removal	Liters/h	1.3	1.3	1.3	1.8	3.0
Pressure	High(DP) MPa	4.5	4.5	4.5	4.5	4.5
	Low(SF) MPa	1.9	1.9	1.9	1.9	1.9
Indoor noise level at cooling	High dB(A)	37	38	39	48	52
	Med. dB(A)	33	33	35	44	43
	Low dB(A)	28	29	30	39	36
Outdoor noise level	dB(A)	52	52	52	55	63
Power supply	208-230V/60Hz/1P	115V~60Hz/1P	208-230V/60Hz/1P	208-230V/60Hz/1P	208-230V/60Hz/1P	208-230V/60Hz/1P
Voltage Range	V	165~265	97~138	165~265	165~265	165~265
Rated current	A	4.8	10.3	4.8	7.0	9.4
Rated Input	W	695	1050	1020	1620	2165
Max Current	A	7.0	14.5	7.0	13.0	14.0
Max Power Input	W	1200	1450	1540	2800	3100
Refrigerant/Charge	Gram	R410A(720g)	R410A(800g)	R410A(720g)	R410A(900g)	R410A(2450g)
Compressor	Model	ASN98D32UEZ	ASN98D32UEZ	ASN98D32UEZ	C-1RZ140H3CBF	C-6RZ180H1AAF
	MFG	GMCC	GMCC	GMCC	SANYO	SANYO
	Type	Rotary	Rotary	Rotary	Rotary	Rotary
Indoor air circulation(Cooling/Heating)	m <sup>3</sup> /h	600	600	600	1000	1000
Indoor fan type	Cross flow	1150/900/750	1200/1000/800	1200/1000/800	1200/1000/850	1200/1000/850
Indoor fan speed H/M/L	Cooling rpm	1150/900/750	1200/1000/800	1200/1000/800	1200/1000/850	1200/1000/850
	Heating rpm	N/A	N/A	N/A	N/A	N/A
	Dry rpm	750	800	800	850	850
	Sleep rpm	750	800	800	850	850
Indoor fan motor output	W	23	20	23	45	45
Outdoor fan speed	rpm	1000	1000	1000	1000	850
Outdoor fan motor output	W	33	33	33	33	85
Connecting Pipe	Inches	Φ9.52 (3/8")	Φ9.52 (3/8")	Φ9.52 (3/8")	Φ9.52 (3/8")	Φ12(1/2")
	Inches	Φ6(1/4")	Φ6(1/4")	Φ6(1/4")	Φ6(1/4")	Φ6(1/4")
Connecting Wiring	Size x Core number	4x16AWG	4x16AWG	4x16AWG	4x16AWG	4x16AWG
Drainage Pipe	O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm	O.D 16mm
Suitable area	m <sup>2</sup>	15~23	15~23	15~23	20~35	30~50
Net dimensions (W x D x H)	Indoor mm	811×292×205	811×292×205	811×292×205	1010×315×220	1010×315×220
	Outdoor mm	777×290×498	795×305×549	777×290×498	853×349×602	920×380×699
Net weight	kg	8.5	8.5	8.5	13	13
Packing dimensions (W x D x H)	Indoor kg	24	28	24	29	37.5
	Outdoor kg	885×366×275	885×366×275	885×366×275	1096×390×297	1260×430×338
Gross weight	Indoor kg	838×338×540	852×358×600	838×338×540	900×405×645	960×430×732
	Outdoor kg	11	11	11	14.5	20
Loading Capacity 40HQ with pipe	PCS	27	31.5	27	33.5	42.5
	PCS	268	242	268	185	158

Trane - by Trane Technologies (NYSE:TT), a global climate innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit [trane.com](http://trane.com) or [tranetechnologies.com](http://tranetechnologies.com).

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.