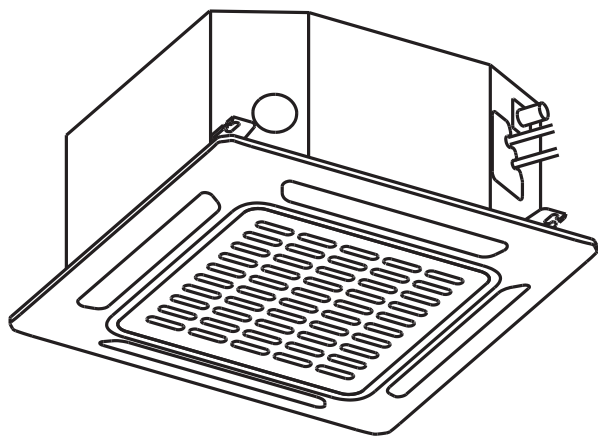


SOPHIA
MULTI-ZONE
DUCTLESS INVERTER
SPLIT AIR CONDITIONER
WITH HEAT PUMP
CASSETTE TYPE
USER'S MANUAL
INDOOR UNIT

Models:

CH-09MSPHCT-230VI
CH-12MSPHCT-230VI
CH-18MSPHCT-230VI
CH-24MSPHCT-230VI



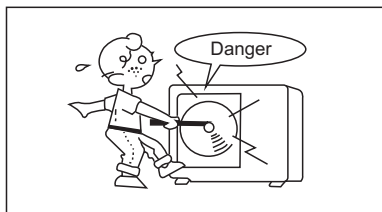
IMPORTANT NOTE:

- This manual describes the installation and usage of different types of multi zone air conditioner indoor units. Please, refer to the corresponding part of the manual.
- Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.
- This manual only describes the installation of outdoor unit. When installing the indoor unit, refer to the installation manual of indoor unit.

CONTENT

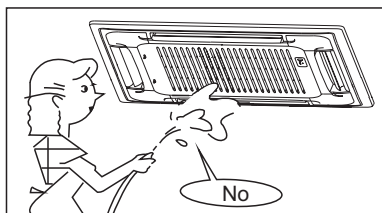
IMPORTANT SAFETY INFORMATION-----	1
HINTS FOR ECONOMICAL OPERATION-----	2
PARTS NAMES-----	2
MANUAL OPERATION-----	14
ADJUSTING AIR FLOW DIRECTION-----	15
MAINTENANCE-----	16
AIR CONDITIONER OPERATIONS AND PERFORMANCE-----	18
INSTALLATION-----	19
TROUBLES AND CAUSES-----	20
TROUBLES AND CAUSES(CONCERNING REMOTE CONTROLLER)-----	20

IMPORTANT SAFETY INFORMATION



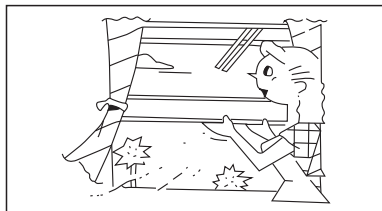
⚠ CAUTION

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



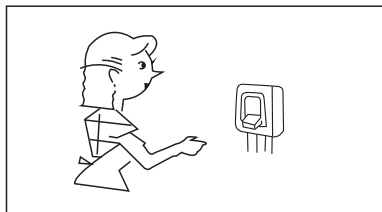
⚠ DANGER

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



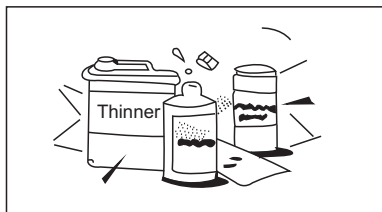
⚠ DANGER

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



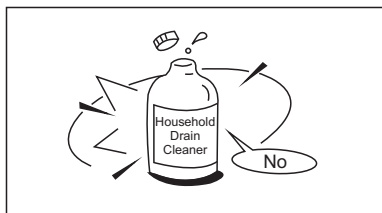
⚠ DANGER

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



⚠ WARNING

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



⚠ WARNING

To prevent electric shock, turn off the power or disconnect the power supply plug before beginning any cleaning or other routine maintenance. Follow the directions for cleaning in the Owner's Manual.

⚠ WARNING

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

⚠ CAUTION

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

⚠ NOTE

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

HINTS FOR ECONOMICAL OPERATION

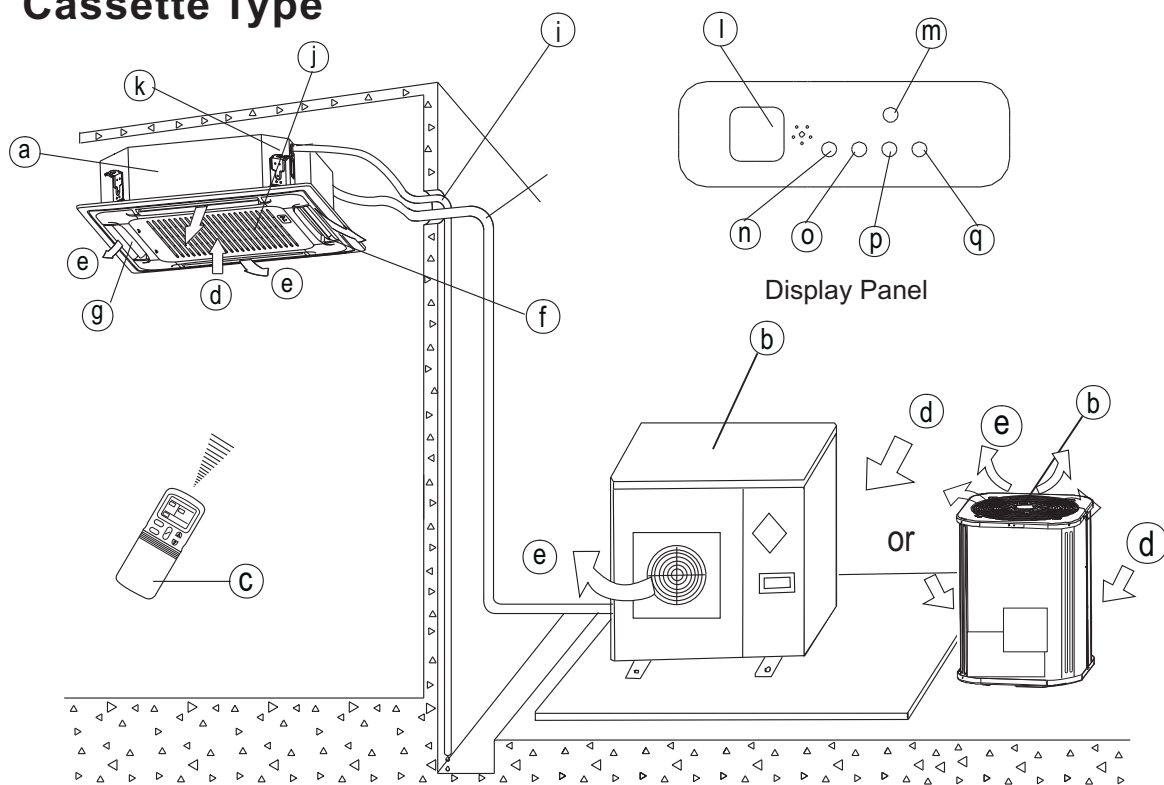
The following should be noticed to ensure an economical operation. (Refer to corresponding chapter for details)

- Adjust the air flow direction properly to avoid winding toward your body.
- Adjust the room temperature properly to get a comfortable situation and to avoid supercooling and superheat.
- In cooling, close the curtains to avoid direct sunlight.
- To keep cool or warm air in the room, never open doors or windows more often than necessary.
- Set the timer for the desired operating time.
- Never put obstructions near the air outlet or the air inlet. Or it will cause lower efficiency, even a sudden stop.
- If you don't plan to use the unit for a long time, please disconnect power and remove the batteries from the remote controller. When the power switch is connected, some energy will be consumed, even if the air conditioner isn't in operation. So please disconnect the power to save energy. And please switch the power on 12 hours before you restart the unit to ensure a smooth operation.
- A clogged air filter will reduce cooling or heating efficiency, please clean it once two weeks.

PARTS NAMES

The air conditioner consists of the indoor unit, the outdoor unit, the connecting pipe and the remote controller.

■ Cassette Type



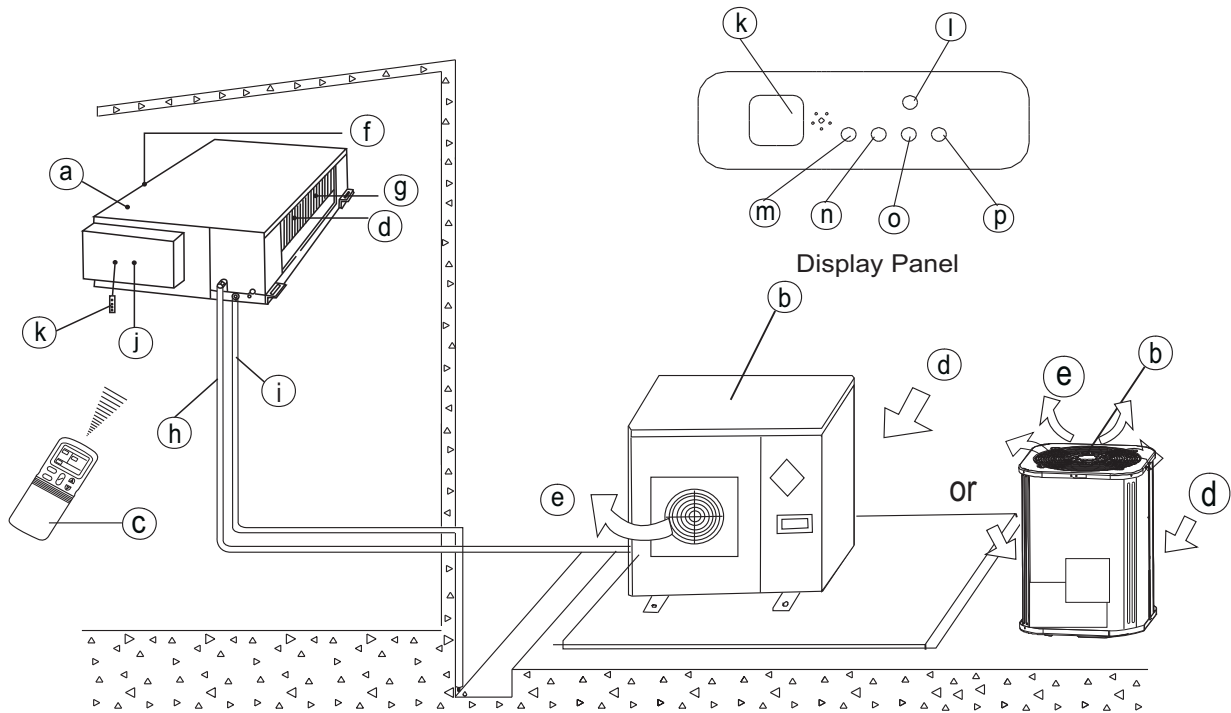
NOTICE!

This chart is based on 24000Btu/h type. So, a few differences may exist on the outlook and functions from yours.

NAMES AND FUNCTIONS

- a) indoor unit
- b) outdoor unit
- c) remote controller
- d) air-in
- e) air-out
- f) air outlet
- g) air flow louver (at air outlet)
- h) connecting pipe
- i) drain hose
- j) air inlet (with air filter in it)
- k) drain pump (drain water from indoor unit)
- l) infrared signal receiver
- m) temporary button
- n) operation lamp
- o) timer indicator
- p) PRE-DEF indicator (cooling and heating type) or fan only indicator (cooling only type)
- q) alarm indicator

High-static Pressure Parvis Split Type



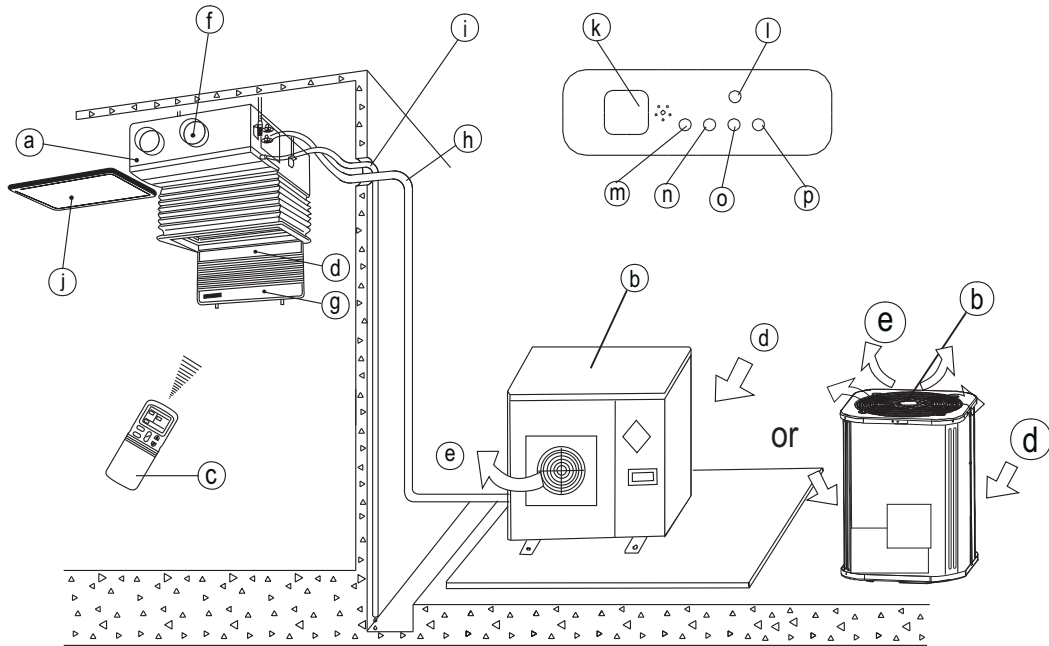
NOTICE!

This chart is based on 24000Btu/h type. So, a little differences may exist on the outlook and functions from yours.

NAMES AND FUNCTIONS

(a)	indoor unit	(b)	outdoor unit	(c)	remote controller
(d)	air-inlet	(e)	air-out	(f)	air outlet
(g)	heat exchanger	(h)	connecting pipe	(i)	drain hose
(j)	E-Box				
(k)	infrared signal receiver	(l)	temporary button		
(m)	operation lamp	(o)	PRE-DEF indicator (cooling and heating type) or fan only indicator (cooling only type)		
(n)	timer indicator	(p)	alarm indicator		

■ Duct and Ceiling Type



NOTICE!

This chart is based on 24000Btu/h type. So, a few differences may exist on the outlook and functions from yours.

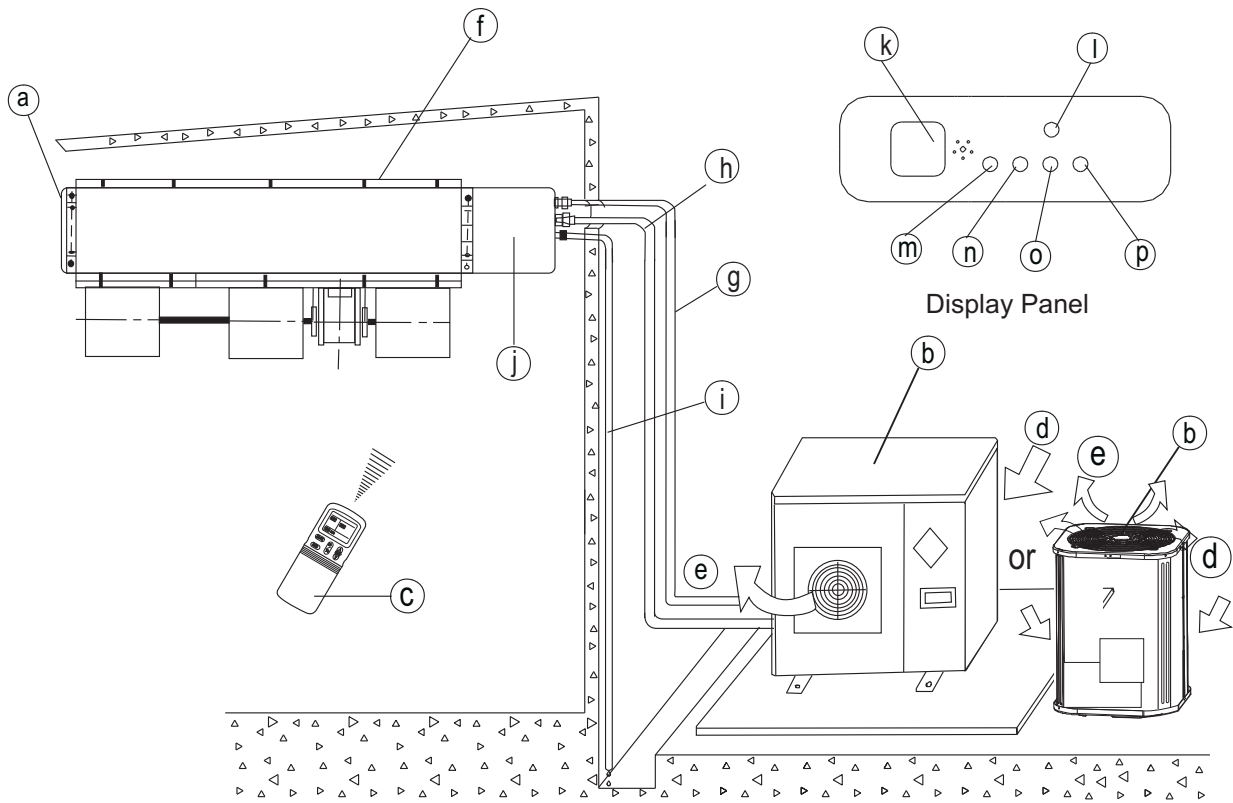
NAMES AND FUNCTIONS

- | | |
|------------------------------------|--------------------------------------|
| a) indoor unit | b) outdoor unit |
| c) remote controller | d) air-in |
| e) air-out | f) air outlet |
| g) air flow louver (at air outlet) | h) connecting pipe |
| i) drain hose | j) air inlet (with air filter in it) |
| k) infrared signal receiver | l) manual button |
| m) operation lamp | n) timer indicator |
| o) PRE-DEF indicator | p) alarm indicator |
- (NOTICE: In the case of "cooling only type", it is the "FAN ONLY" indicator.)

NOTE:

All the pictures in this manual are for explanation purpose only. There may be slightly different from the air conditioner you purchased (depend on model). The actual shape shall prevail.

■ For Slim Duct Type



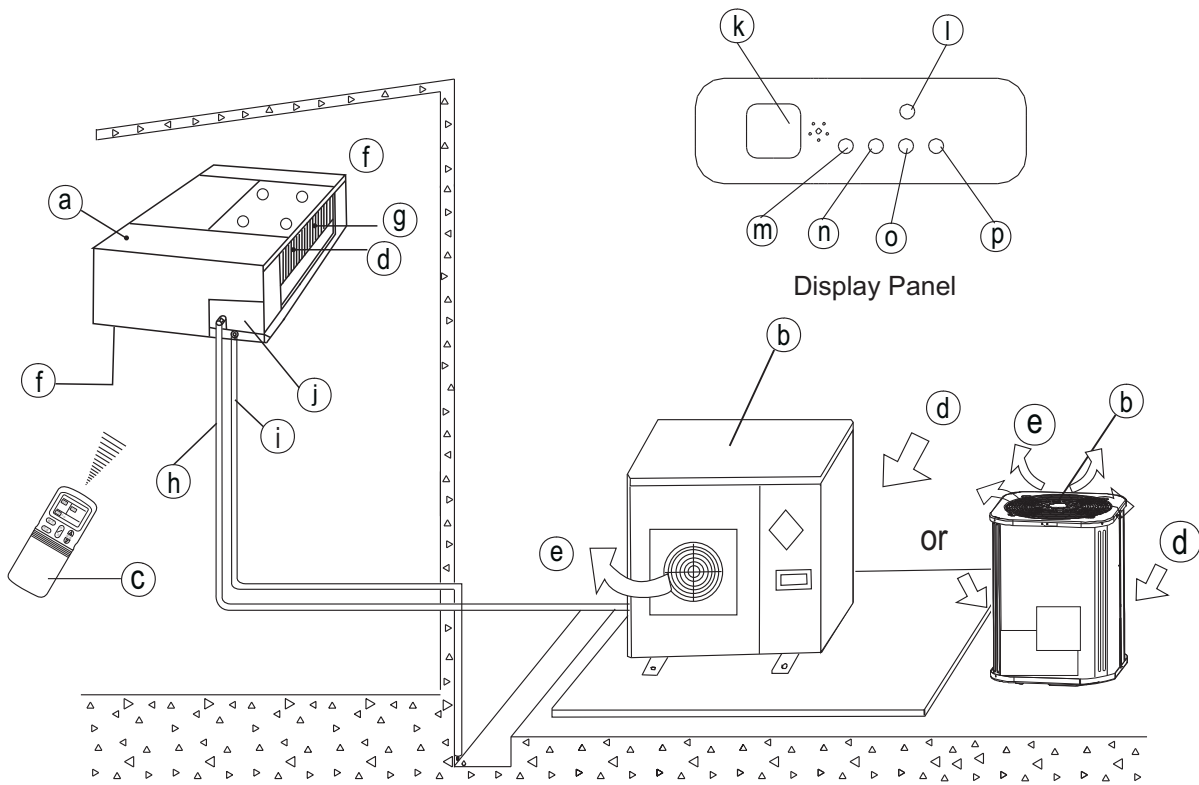
NOTICE!

This chart is based on 24000Btu/h. type. So, a few differences may exist on the outlook and functions from yours.

NAMES AND FUNCTIONS

(a)	indoor unit	(b)	outdoor unit	(c)	remote controller
(d)	air-inlet	(e)	air-out	(f)	air-outlet
		(h)(g)	connecting pipe	(i)	drain hose
(j)	E-Box				
(k)	infrared signal receiver	(l)	temporary button		
(m)	operation lamp	(o)	PRE./DEF.indicator (cooling and heating type) or fan only indicator (cooling only type)		
(n)	timer indicator	(p)	alarm indicator		

■ For Slim DUCT with air inlet box Type

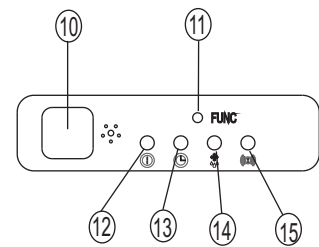


NAMES AND FUNCTIONS

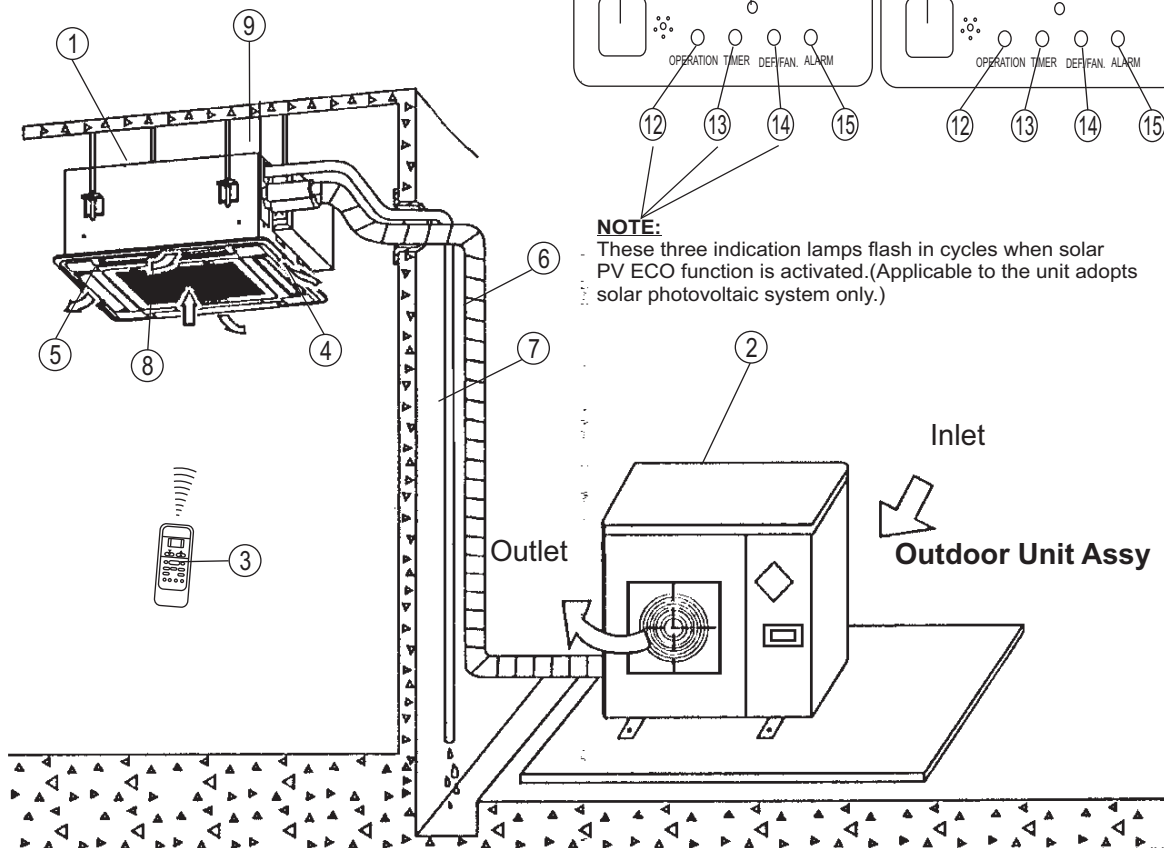
(a)	indoor unit	(b)	outdoor unit	(c)	remote Controller
(d)	air-outlet	(e)	air-out	(f)	air- inlet
(g)	heat exchanger	(h)	connecting pipe	(i)	drain hose
(j)	E-Box				
(k)	infrared signal receiver	(l)	temporary button		
(m)	operation lamp	(o)	PRE./DEF.Indicator (Cooling and heating type) or fan only indicator (cooling only type)		
(n)	timer indicator	(p)	alarm indicator		

■ Four-way Cassette(slim) Type

Control board



Indoor Unit Assy



NOTE:

These three indication lamps flash in cycles when solar PV ECO function is activated. (Applicable to the unit adopts solar photovoltaic system only.)

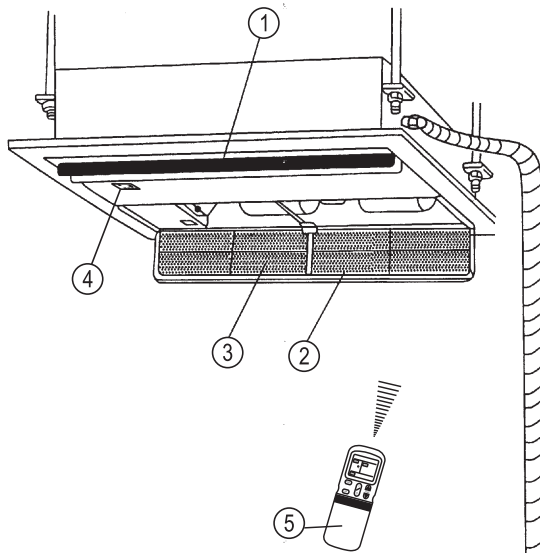
This picture is based on the type of 18000Btu/h, So the appearance and function may be slightly different from the unit you purchased.

Parts Names:

① Indoor Unit	② Outdoor Unit	③ Remote Controller
④ Air outlet	⑤ Vertical louver	⑥ Connecting pipe
⑦ Drain hose	⑧ Air Inlet (Air filter installed inside to prevent the dust)	
⑨ Drain Pump (Internal installed), water drain from indoor unit.		
⑩ Infrared Signal receiver	⑪ Manual button/SET button	⑫ Run lamp
⑬ Timer indicator	⑭ Defrost indicator heating/cooling type or fan indicator (cooling only type)	
⑮ Alarm indicator		

■ One-way Cassette Type

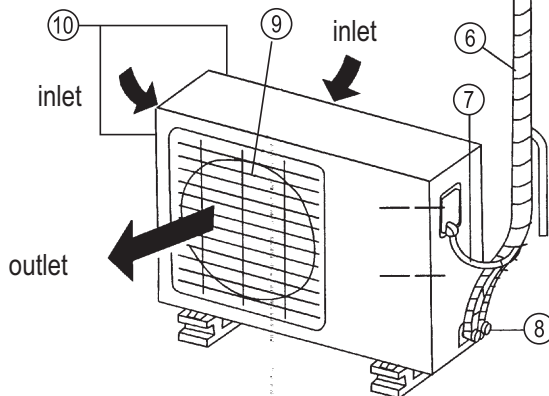
INDOOR UNIT



INDOOR UNIT

- ① Outlet louver
- ② Inlet
- ③ Filter
- ④ Display panel
- ⑤ Remote controller

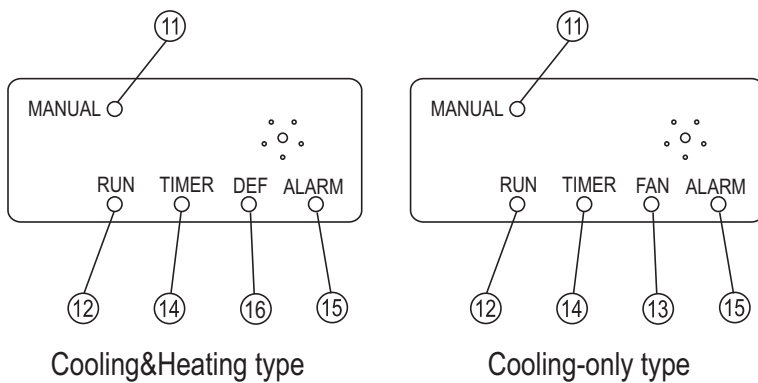
OUTDOOR UNIT



OUTDOOR UNIT

- ⑥ Refrigerant connecting, drain hose pipe
- ⑦ Electric wiring
- ⑧ Trap
- ⑨ Air outlet
- ⑩ Air inlet(side and rear)

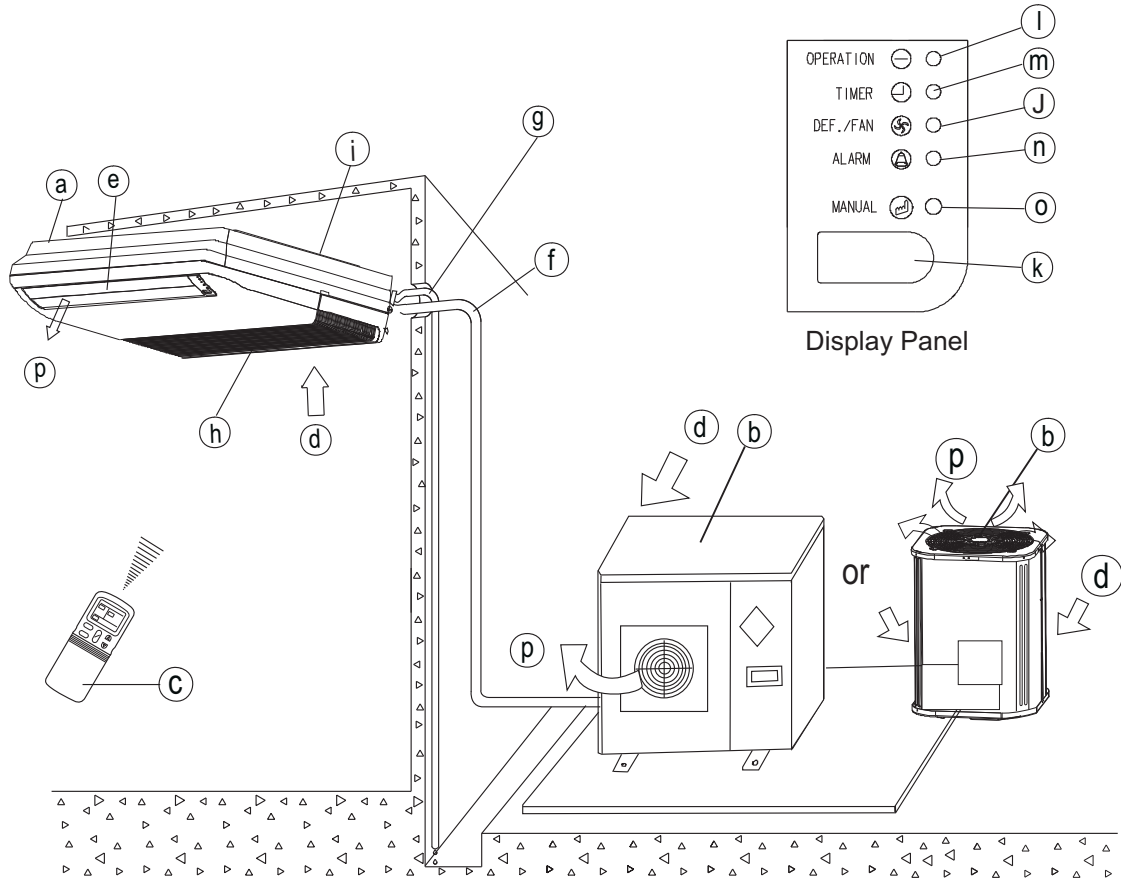
DISPLAY PANEL



Display panel

- ⑪ MANUAL button
- ⑫ Run lamp
- ⑬ FAN indicator(Cooling/Heating type without)
- ⑭ TIMER indicator
- ⑮ ALARM indicator
- ⑯ DEF. indicator(Cooling-only type without)

■ Ceiling & Floor Type (for VERTICAL DISCHARGE AIR CONDITIONER)



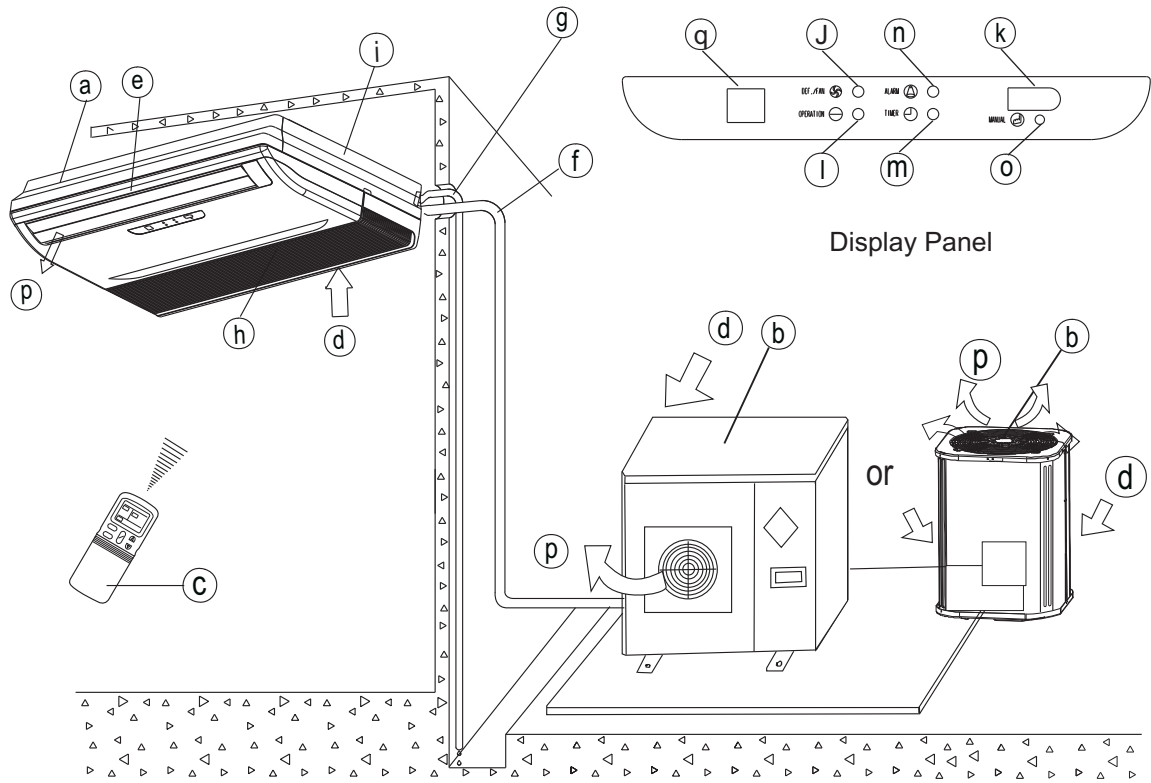
NOTICE!

The chart based on one model of our product is for reference only, which may be different from the unit you purchased.

NAMES AND FUNCTIONS

(a)	indoor unit	(b)	outdoor unit	(c)	remote controller
(d)	air-in	(e)	air flow louver (at air outlet)	(f)	connecting pipe
(g)	drain hose	(h)	air inlet (with air filter in it)		
(i)	installation part	(j)	FAN/DEF indicator (For cooling and heating type, it's DEF., for cooling only type, it's FAN)		
(k)	infrared signal receiver	(l)	operation lamp		
(m)	timer indicator	(n)	alarm indicator		
(o)	temporary button	(p)	air-out		

■ Ceiling & Floor Type



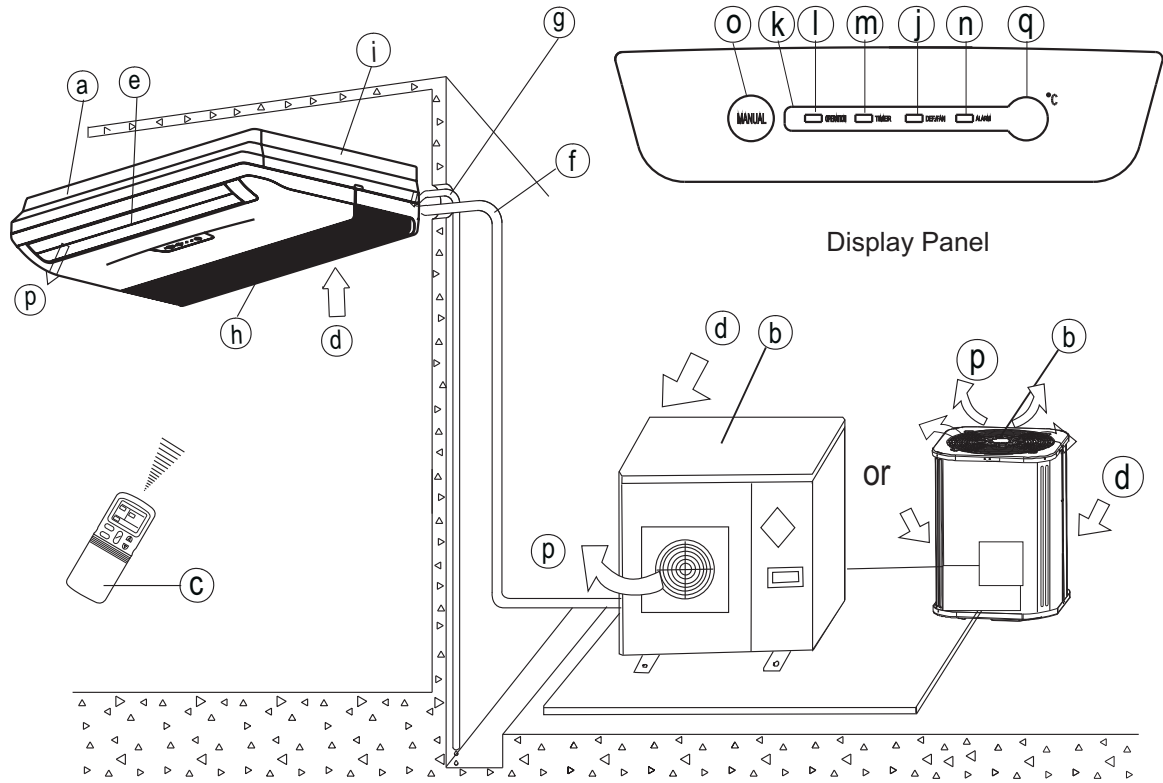
NOTICE!

The chart based on one model of our product is for reference only, which may be different from the unit you purchased.

NAMES AND FUNCTIONS

(a)	indoor unit	(b)	outdoor unit	(c)	remote controller
(d)	air-in	(e)	air flow louver (at air outlet)	(f)	connecting pipe
(g)	drain hose	(h)	air inlet (with air filter in it)		
(i)	installation part	(j)	FAN/DEF indicator (For cooling and heating type, it's DEF., for cooling only type, it's FAN)		
(k)	infrared signal receiver	(l)	operation lamp		
(m)	timer indicator	(n)	Alarm Indicator		
(o)	temporary button	(p)	air-out	(q)	Temperature display

■ Ceiling & Floor Type



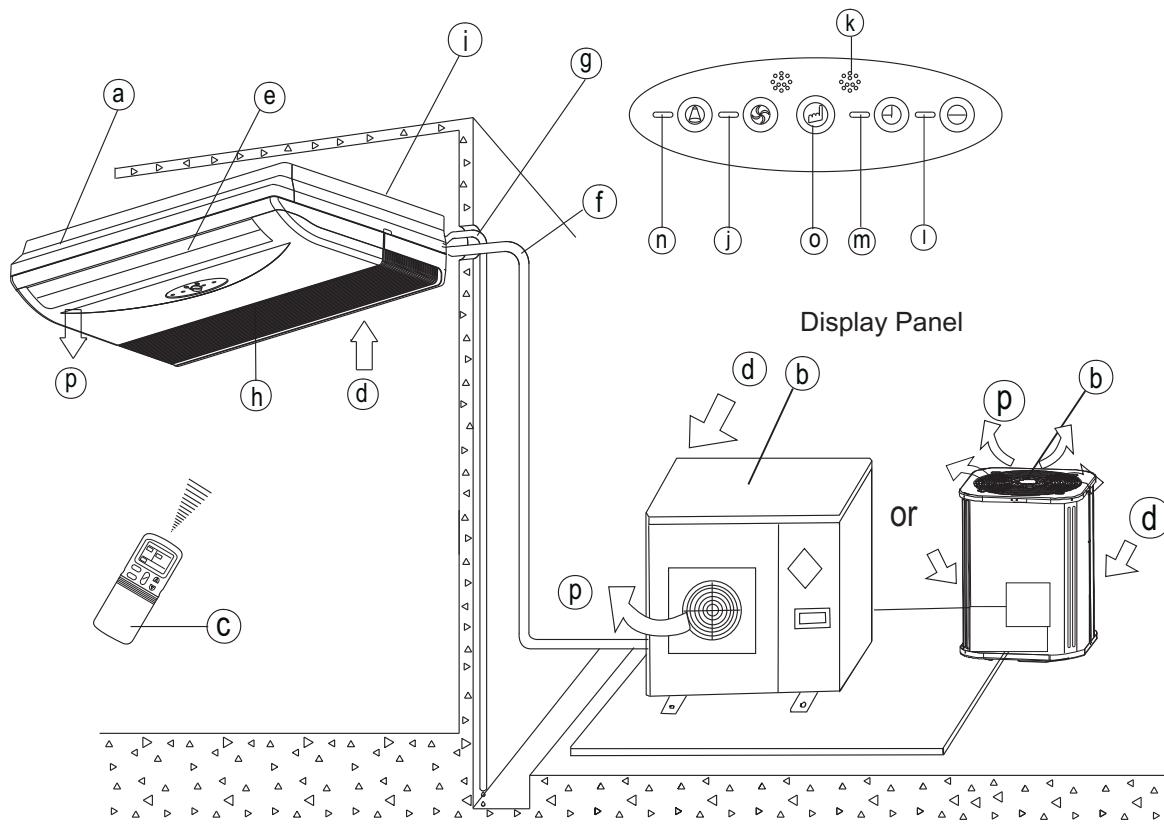
NOTICE!

The chart based on one model of our product is for reference only, which may be different from the unit you purchased.

NAMES AND FUNCTIONS

Ⓐ	indoor unit	Ⓑ	outdoor unit	Ⓒ	remote controller
Ⓓ	air-in	Ⓔ	air flow louver (at air outlet)	Ⓕ	connecting pipe
Ⓖ	drain hose	Ⓗ	air inlet (with air filter in it)		
Ⓘ	installation part	Ⓙ	FAN/DEF indicator (For cooling and heating type, it's DEF., for cooling only type, it's FAN)		
Ⓚ	infrared signal receiver	Ⓛ	operation lamp		
Ⓜ	timer indicator	Ⓝ	Alarm Indicator		
ⓐ	temporary button	Ⓟ	air-out	Ⓠ	Temperature display

■ Ceiling & Floor Type



NOTICE!

The chart based on one model of our product is for reference only, which may be different from the unit you purchased.

NAMES AND FUNCTIONS

Ⓐ	indoor unit	Ⓑ	outdoor unit	Ⓒ	remote controller
Ⓓ	air-in	Ⓔ	air flow louver (at air outlet)	Ⓕ	connecting pipe
Ⓖ	drain hose	Ⓗ	air inlet (with air filter in it)		
Ⓘ	installation part	Ⓙ	FAN/DEF indicator (For cooling and heating type, it's DEF., for cooling only type, it's FAN)		
Ⓚ	infrared signal receiver	Ⓛ	operation lamp		
Ⓜ	timer indicator	Ⓝ	alarm indicator		
Ⓞ	temporary button	Ⓟ	air-out		

MANUAL OPERATION

■ Ceiling & Floor

This function is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted. Two modes including AUTO and FORCED COOL can be selected through the TEMPORARY BUTTON on the air-in grill control box of the indoor unit. Once you push this button, the air conditioner will run in such order: AUTO, FORCED COOL, OFF, and back to AUTO.

1 AUTO

The OPERATION lamp is lit, and the air conditioner will run under AUTO mode. The remote controller operation is enabled to operate according to the received signal.

2 FORCED COOL

The OPERATION lamp flashes, the air conditioner will turn to AUTO after it is enforced to cool with a wind speed of HIGH for 30 minutes. The remote controller operation is disabled.

3 OFF

The OPERATION lamp goes off. The air conditioner is OFF while the remote controller operation is enabled.

■ Four-way Cassette

This function is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted. Two modes including AUTO and mandatory COOL can be selected through the TEMPORARY BUTTON on the air inlet grill control box of the indoor unit. Once you push this button, the air conditioner will run in such order: AUTO, mandatory COOL, OFF, and back to AUTO.

1 AUTO

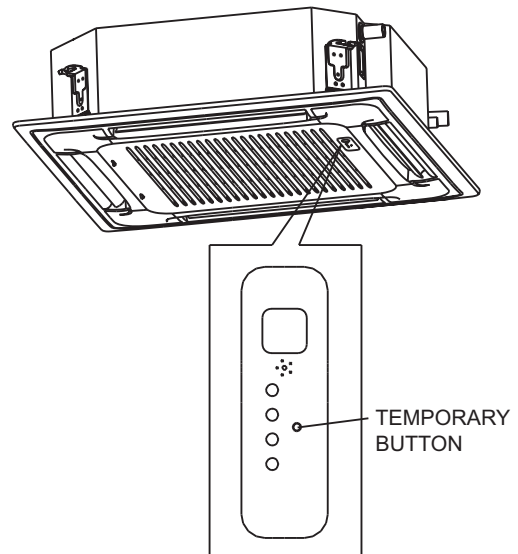
The OPERATION lamp is lit, and the air conditioner will run under AUTO mode. The remote controller operation is enabled to operate according to the received signal.

2 MANDATORY COOL

The OPERATION lamp flashes, the air conditioner will turn to AUTO after it is enforced to cool with a wind speed of HIGH for 30 minutes. The remote controller operation is disabled.

3 OFF

The OPERATION lamp goes off. The air conditioner is OFF while the remote controller operation is enabled.



ADJUSTING AIR FLOW DIRECTION

■ Cassette Type

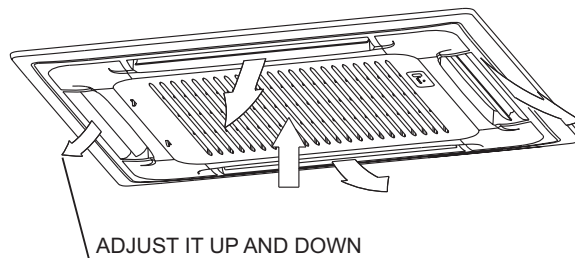
While the unit is in operation, you can adjust the air flow louver to change the flow direction and naturalize the room temperature evenly. Thus you can enjoy it more comfortably.

1. Set the desired air flow direction.

Push the **SWING** button to adjust the louver to the desired position and push this button again to maintain the louver at this position.

2. Adjust the air flow direction automatically.

Push the **SWING** button, the louver will swing automatically.



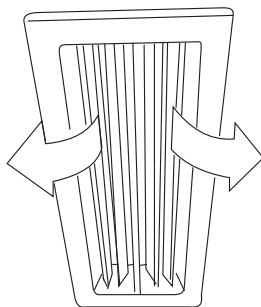
While this function is set, the swing fan of indoor unit runs; otherwise, the swing fan doesn't run. The swing scale of every side is 30°. When the air conditioner isn't in operation (including when "TIMER ON" is set), the **SWING** button will be disabled.

Duct and Ceiling Type

The following is how to adjust air flow direction when air outlet part (separately saled) is used with the indoor unit.

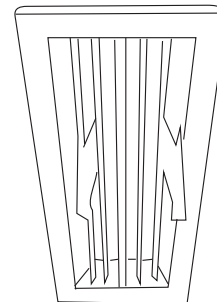
Cooling

To effectively cool the whole room, please set the louver so that the air can come out horizontally.



Heating

To effectively heat the bottom of the room, please set the louver so that the air can come out downwards.



MAINTENANCE

WARNING

WARNING

Before you clean the air conditioner, be sure to disconnect the power supply plug.

Cleaning the indoor unit and remote controller

CAUTIONS

- Use a dry cloth to wipe the indoor unit and remote controller.
- A cloth dampened with cold water may be used on the indoor unit if it is very dirty.
- Never use a damp cloth on the remote controller.
- Do not use a chemically-treated duster for wiping or leave such material on the unit for long, because it may damage or fade the surface of the unit.
- Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

If you do not plan to use the unit for at least 1 month.

- (1) Operate the fan for about half a day to dry the inside of the unit.
- (2) Stop the air conditioner and disconnect power.
- (3) Remove the batteries from the remote controller.

Checks before operation

CAUTIONS

- Check that the wiring is not broken off or disconnected.
- Check that the air filter is installed. (Some air-conditioners haven't air filters.)
- Check that the outdoor unit air outlet or inlet is not blocked.

Before you clean the air conditioner, be sure to disconnect the power supply plug.

Cleaning the air filter

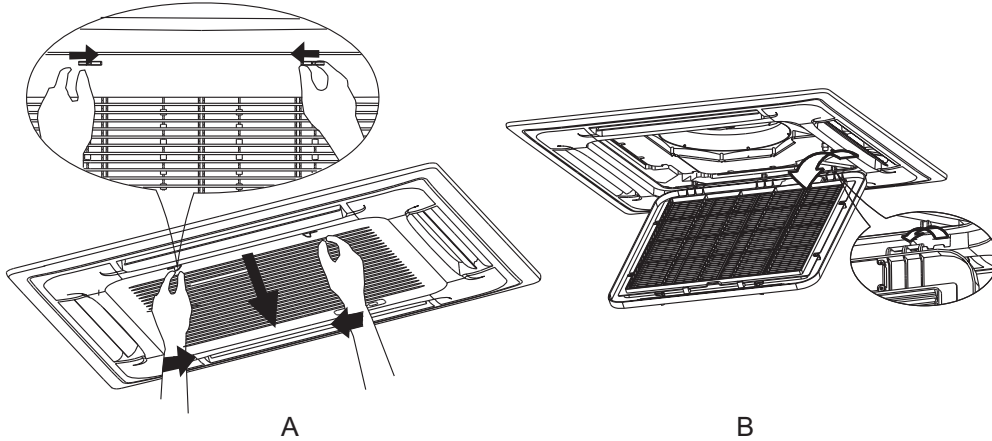
- The air filter can prevent the dust or other particulate from going inside .In case of blockage of the filter , the working efficiency of the air conditioner may greatly decrease .Therefore , the filter must be cleaned once two weeks during long time usage.
- If the air conditioner is positioned in a dust place , the cleaning frequency of the air filter must be increased .
- If the accumulated dust is too heavy to be cleaned , please replace the filter with a new one(replaceable air filter is an optional fitting).
- The filter cleaning should be performed by a suitable service provider.

■ Cassette Type

1. Open the air-in grill

Push the grill switches towards the middle simultaneously as indicated in sketch A. Then pull down the air-in grill.

Cautions: The control box cables ,which are originally connected with the main body electrical terminators must be pulled off before doing as indicated above.



2. Take out the air-in grill (together with the air filter shown in Sketch B)

Pull the air-in grill down at 45 ° and lift it up to take out the grill.

3. Dismantle the air filter

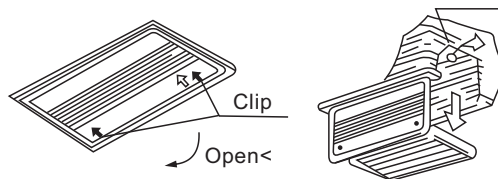
4. Clean the air filter(Vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy , please use soft brush and mild detergent to clean it and dry out in cool place) .

■ Duct and Ceiling Type

1. Open the air-in grill

Push the grill switches towards the middle simultaneously as indicated in follow figure sketch. Then pull down the air-in grill.

Cautions: The control box cables ,which are originally connected with the main body electrical terminators must be pulled off before doing as indicated above.



2. Take out the air-in grill.

3. Dismantle the air filter

4. Clean the air filter (Vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy , please use soft brush and mild detergent to clean it and dry out in cool place) .

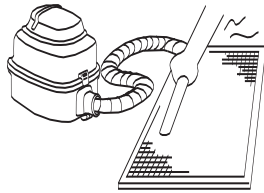


Fig. 1

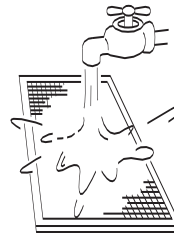


Fig. 2

- The air-in side should face up when using vacuum cleaner. (See Fig. 1)
- The air-in side should face down when using water. (See Fig. 2)

Cautions : Do not dry out the air filter under direct sunshine or with fire.

5. Re-install the air filter

6. Install and close the air-in grill in the reverse order of step 1 and 2 and connect the control box cables to the corresponding terminators of the main body .

Note: High-static Pressure Parvis Split Type has no air filter.

AIR CONDITIONER OPERATIONS AND PERFORMANCE

Three-minute protection feature

A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it restarts immediately after operation.

Power failure

Power failure during operation will stop the unit completely.

- The OPERATION lamp on the indoor unit will start flashing when power is restored.
- To restart operation, push the ON/OFF button on the remote controller.
- Lightning or a car wireless telephone operating nearby may cause the unit to malfunction.

Disconnect the unit with the power and then connect the unit with the power again. Push the ON/OFF button on the remote controller to restart operation.

Air conditioner operating conditions

For proper performance, run the air conditioner under the following temperature conditions:

Mode	Cooling operation	Heating operation	Drying operation
Room temperature	17°C~32°C (62°F~90°F)	0°C~30°C (32°F~86°F)	17°C~ 32°C/ 62°F~ 90°F
Outdoor temperature	18°C~43°C (64°F~109°F)	-7°C~24°C (20°F~76°F)	18°C~ 43°C/64°F~109°F
	(-7°C~43°C/20°F~109°F: For the models with low temperature cooling system)		
	18°C~52°C/64°F~126°F: For special tropical models		18°C~52°C/64°F~126°F (For special tropical models)

NOTE:

1. If air conditioner is used outside of the above conditions, certain safety protection features may come into operation and cause the unit to function abnormally.
2. Room relative humidity less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may attract condensation. Please sets the vertical air flow louver to its maximum angle (vertically to the floor), and set HIGH fan mode.
3. Optimum performance will be achieved within these operating temperature.

Special functions

Refrigerant Leakage Detection(optional):

With this new technology, the display area will appear EC (if applicable) and the LED indication lamps continue flashing when the outdoor unit detects refrigerant leakage.

Louver Angle Memory Function(optional):

For some models, the machine is special designed with louver angle memory function. Power failure during operation or pressing the ON/OFF button on the remote controller will stop the unit completely. When the power restores or pressing the ON/OFF button on the remote controller again, the unit restarts automatically with the previous open angle of the horizontal louver by the memory function. So we strongly recommend that the open angle of the horizontal louver should not be set too small, in case the condensed water forms and drops from the horizontal louver. Press the Manual control button and the open angle of the horizontal louver will be restored to the standard angle.

INSTALLATION

Location:

- During cooling operation, the air conditioner will dry the room air, so please fix a pipe to drain all the water away from the air conditioner.
- Please let the indoor unit more than one metre away from the TV set and the radio in order to avoid the picture and noise interference.
- Powerful radio transmitters or any other devices radiating high frequency radio waves can cause the air conditioner to malfunction. Please consult the dealer where you purchased the air conditioner before installing it.
- Don't fix the unit in the dangerous region with combustible gas or volatile matter.
- If the air conditioner operates in an atmosphere containing oils (machine oil), salt (near a coastal area), sulfide gas (near a hot spring), etc., such substances may lead to failure of the air conditioner.

Be careful of noise or vibrations

- Please fix the unit in the stable place to avoid the noise or vibrations.
- The noise near the air outlet of the outdoor unit may enter the air exit.
- Locate the outdoor unit where noise emitted by it or hot air from its air outlet will cause no nuisance to your neighbours.
- If the air conditioner sounds abnormal during operation, contact the dealer where you purchased the air conditioner.

Wire

- To avoid the electric shock, please link the air conditioner with the ground. The plug in the air conditioner has joined the ground wiring, please don't change it freely.
- The power socket is used as the air conditioner specially.
- Don't pull the power wiring hard.
- When linking the air conditioner with the ground, observe the local rulers.
- If necessary, use the power fuse or the circuit, breaker or the corresponding scale ampere.
If you want to change the power wiring, please contact the centre service of the local MD electric appliance.

Relocation

If you move out or if it is desired to relocate the air conditioner, consult your dealer, because special skills to withdraw Freon, purge air and perform other operations are required.

TROUBLES AND CAUSES

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

Recheck

Inoperative

- The power fuse is blown or the circuit breaker has been tripped.
- The batteries in the remote controller are exhausted.
- The timer is set.

Does not cool or heat well.

- The air inlet or outlet of the outdoor unit is blocked.
- Doors or windows are open.
- The air filter is clogged with dust.
- The louver is not at the correct position.
- The fan speed is set to low.
- The temperature setting is too high or too low.

These are not failures

Room air is smelly.

A bad odor comes from the air conditioner.

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

CAUTION

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

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

TROUBLES AND CAUSES (CONCERNING REMOTE CONTROLLER)

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

Setting Change is Impossible		
Symptoms	Causes	Reason and Disposal
The fan speed can not be changed.	<ul style="list-style-type: none"> • Check whether the MODE indicated on the display is "AUTO" 	When the automatic mode is selected, the air conditioner automatically selects the fan speed.
	<ul style="list-style-type: none"> • Check whether the MODE indicated on the display is "DRY" 	When dry operation is selected, the air conditioner automatically select the fan speed. The fan speed can be selected during "COOL" and "FAN ONLY", and "HEAT"

The Transmission Indicator "▲" Never Comes On		
Symptoms	Causes	Reason and Disposal
The remote control signal is not transmitted even when the ON/OFF button is pushed.	<ul style="list-style-type: none"> • Check whether the batteries in the remote controller are exhausted. 	The remote control signal is not transmitted, because the power supply is off.

The Display Never Comes On		
Symptoms	Causes	Reason
The TEMP. indicator does not come on.	<ul style="list-style-type: none"> • Check whether the MODE indicated on the display is "FAN ONLY". FAN ONLY 	The temperature cannot be set during fan only operation.

The Display Goes Off		
Symptoms	Causes	Reason
The indication on the display disappears after a lapse of time.	<ul style="list-style-type: none"> • Check whether the timer operation has come to an end when the OFF TIMER is indicated on the display. 	The air conditioner operation stops since the set time elapsed.
The ON TIMER indicators go off after a lapse of certain time.	<ul style="list-style-type: none"> • Check whether the timer operation is started when the ON TIMER is indicated on the display. 	When the time set to start the air conditioner is reached, the air conditioner will automatically start and the appropriate indicator will go off.

The Signal Receiving Tone does Not Sound		
Symptoms	Causes	Disposal
No receiving tone sounds from the indoor unit even when the ON/OFF button is pushed.	<ul style="list-style-type: none"> • Check whether the signal transmitter of the remote controller is properly directed to the receiver of the indoor unit when the ON/OFF button is pushed. 	Direct the signal transmitter of the remote controller to the receiver of the indoor unit, and then repeatedly push the ON/OFF button twice.
Buttons on the remote controller don't work.		Press Reset button.

The following displays indicate an error or problem:

NO	Malfunction	Display (nixie tube)	timer lamp	running lamp (flashes per second)
1	Indoor EEPROM error	E0.	OFF	1
2	Communication malfunction between indoor and outdoor units	E1.	OFF	2
3	Indoor fan speed malfunction	E3.	OFF	4
4	Indoor room temperature sensor open circuit or short circuit	E4.	OFF	5
5	Evaporator coil temperature sensor open circuit or short circuit	E5.	OFF	6
6	Refrigerant leakage detection malfunction	EC.	OFF	7
7	Water-level alarm malfunction	EE.	OFF	8
8	Communication malfunction between two indoor units (for twins model)	E8.	OFF	9
9	Other malfunction of twins model	E9.	OFF	10
10	Current overload protection	F0.	ON.	1
11	Outdoor room temperature sensor open circuit or short circuit	F1.	ON.	2
12	Outdoor condenser pipe temperature sensor error	F2.	ON.	3
13	Discharging air temperature sensor error	F3.	ON.	4
14	Outdoor EEPROM error	F4.	ON.	5
15	Outdoor fan speed malfunction (Only for DC fan motor)	F5.	ON.	6
16	T2b sensor error	F6.	ON.	7
17	Lifting panel communication checking channel is abnormal	F7.	ON.	8
18	Lifting panel malfunction	F8.	ON.	9
19	Lifting panel is not closed	F9.	ON.	10
20	Inverter module IPM protection	P0.	Flash.	1
21	High/Low voltage protection	P1.	Flash.	2
22	High temperature protection of compressor top	P2.	Flash.	3
23	Outdoor low temp. Protection	P3.	Flash.	4
24	Compressor drive error	P4.	Flash.	5
25	Mode conflict	P5.	Flash.	6

The displayed error code differs from appliance to appliance. The actual display of the indoor unit shall prevail.



LIMITED WARRANTY STATEMENT
MULTI ZONE INVERTER AIR CONDITIONING SYSTEM WITH HEAT PUMP

**This warranty should be registered on our web-site www.cooperandhunter.us
 The warranty is only valid when installed by a Licensed HVAC Technician**

FOR WARRANTY SERVICE OR REPAIR:

Contact your installing contractor. You may find the installer’s name on the equipment or in your Owner’s packet.

Complete product registration below and send back by e-mail at warranty@cooperandhunter.us

PRODUCT REGISTRATION:	
Model No.:	_____
Serial No.:	_____ Date of Installation: _____
Owner Name:	_____
Address of Installation:	_____
Installing Contractor:	_____
Address:	_____
Phone No. / E-mail:	_____
Place Of Purchase:	_____
Date of Purchase:	_____

C&H distributor (hereinafter “Company”) warrants this product against failure due to defect in materials or workmanship under normal use and maintenance as follows. All warranty periods begin on the date of original installation. If the date cannot be verified, the warranty period begins one hundred twenty (120) days from date of manufacture. Damage resulting from failure to use, install or maintain the product in a manner consistent with our/manufacturer’s recommendations shall render the warranty void. Cooper&Hunter, at its option, may request a report from a qualified technician prior to honoring a warranty claim. If a part fails due to defect during the applicable warranty period Company will provide a new or remanufactured part, at Company’s option, to replace the failed defective part at no charge for the part. This limited warranty is subject to all provisions, conditions, limitations and exclusions listed below.

- A warranty period of Seven (7) years on compressor to the original registered end-user.
- A warranty period of Five (5) years on all parts to the original registered end user.
- A warranty period of One (1) year on the remote control provided with the original unit.
- Limited warranty applies only to systems that are properly installed by a state certified or licensed HVAC contractor, under applicable local and state law in accordance with all applicable building codes and permits; C&H installation and operation instructions and good trade practices.
- Warranty applies only to products remaining in their original installation location.
- Defective parts must be returned to the distributor through a registered servicing dealer for credit.

LIMITATIONS OF WARRANTIES: ALL IMPLIED WARRANTIES AND/OR CONDITIONS (INCLUDING IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE) ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESS WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON, WHATSOEVER.

THIS WARRANTY DOES NOT COVER:

1. Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing, or handling of defective parts, replacement parts, or new units.
2. Product cleaning required prior to warranty service and repair.
3. Normal maintenance as outlined in the installation and servicing instructions or user's manual, including filter cleaning and/or replacement and lubrication.
4. Failure, damage, or repairs due to faulty installation, misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.
5. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
6. Failure or damage due to floods, winds, fires, lightning, accidents, corrosive environments (rust, etc.), or other conditions beyond the control of Company.
7. Failure or damage of coils or piping due to corrosion on installations within one (1) mile of a sea coast or a corrosive body.
8. Parts not supplied or designated by Company, or damages resulting from their use.
9. Products installed outside the continental USA and Canada.
10. Electricity or fuel costs, or increases in electricity or fuel costs for any reason whatsoever, including additional or unusual use of supplemental electric heat.
11. Any cost to replace, refill, or dispose of refrigerant, including the cost of refrigerant.
12. Shipping damage or damage as a result of transporting the unit.
13. Accessories such as condensate pumps, line sets, and so forth.
14. Any special, indirect, or consequential property or commercial damage of any nature whatsoever. Some states or provinces do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.