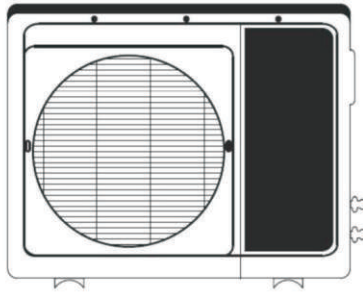


USER'S MANUAL



LIVE THE FUTURE
SPLIT-TYPE AIR CONDITIONER



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Thank you for choosing our company products!

Air conditioning facilities are valuable products. In order to protect your legitimate rights and interests, please make sure that the installations are done by professional technicians. This manual is a general-purpose version for the conditioning systems manufactured by our CO., the one that you have chosen might be a little different in appearance from the ones described in the manual . But these differences will not have any impacts upon your operation and use of the system.

Please read the manual carefully before you operate the system and check to see if the model is identical to the one you have purchased, keep the manual properly in case you might refer to it in the future.

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NOTICES TO USERS

1. 1 Safety Notices

" Important Safety Information " affords very important points about how to operate the unit safely. To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage.

The safety precautions listed here are divided into two categories. In either case, important safety information is listed which must be read carefully.



WARNING

Failure to observe a warning may result in serious injury, grave accidents even death.



CAUTION

Failure to observe a caution may lead to injury or damage to the equipment.

Please read the mark of the unit carefully .If you detect any abnormality, such as abnormal noise, smell, fog, temperature rise, creepage, fire and so on; Please turn off the power supply immediately and call your dealer or local service center for instructions. Do not repair the unit by yourself. If necessary, call the local fire department or Emergency department for help.



WARNING

1. Never install the unit by yourself and call the professionals from distributor or maintenance center for installation, or it may lead to accidents and affect the performance of usage .
2. Never dismantle the units without the guidance of the professionals, or it may cause danger .
3. Do not place insecticides or paints and other flammable sprays near the unit or spray them directly at the unit. It might cause fire hazards.
4. Do not install the main power supply switch at the places where the children might touch it to avoid of accidents .
5. Do not spray water or other liquid to the air conditioner, or else it may cause electric shock.
6. Do not touch the unit with wet hands, otherwise it might cause electric shocks .
7. Disconnect the power during lighting storm day, otherwise it might cause

Lightning shocks or damage the unit .

8. If the unit will be idle for a long time, disconnect the power to avoid of accidents .
9. The unit shall be equipped with special power supply switch and power line to avoid of sharing the same power line with other devices. Besides, it adopts the stated- cross-section wire to supple the power, matching with the corresponding breaker(with creepage protect function) .
10. The unit is connected with the stated-cross-section earth wire, which is grounded safely and is not allowed to be connected with the gas pipe, water pipe, lightning conductor or the telephone earth wire in order to avoid of electric shocks.
11. Never stop the operation of the unit by pulling out the power supply line in order to avoid of electric shocks or fire hazards .



CAUTION

1. Do not put your hands or sticks into the air vents . As the fan running with high speed will hurt you.
2. Keep the electric control system from damp to avoid of circuit-short or damage of unit .
3. After cleaning the filter screen, install the air filter screen quickly .It is not allowed to operate the unit without the air filter screen which may get the poor performances.
4. When there are old men, children and patient in the room, please adjust the room temperature properly.
5. If the unit is interrupted by the lightning or other electromagnetic radiation, cut off the power, restart the unit after eliminating that factors.
6. Do not clog the air inlet and outlet of the unit.
7. Never use the fuse with incorrect capacity or iron or copper wires for fuse .
8. Keep the unit off the places where might happen fire hazards .Pull out the power plug immediately and put down the fire with fire extinguisher result from circuit-short.
9. Cut off the power supply before servicing.
10. Do not touch the pipe on the exhaust side, because the temperature may be above than 100℃, so it may result in scald.
11. Do not touch the fin and sharp edge which will hurt you.
12. Do not move the unit randomly without professional guidance, otherwise it may cause the damage of the unit .

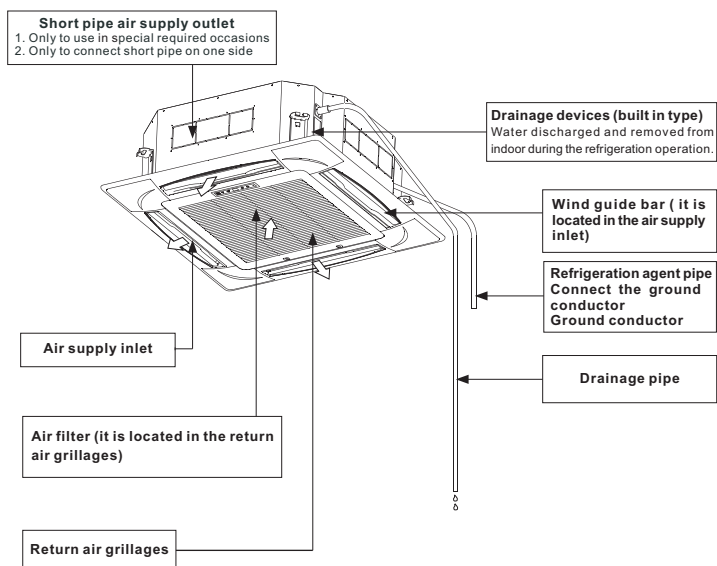
13. Do not touch the rotary air vents with your hands or other objects to avoid of accidents or damage.
14. It is forbidden placing goods above the machine set, so as not to result in the danger of the fall off when they are running.

1. 2 Use notices

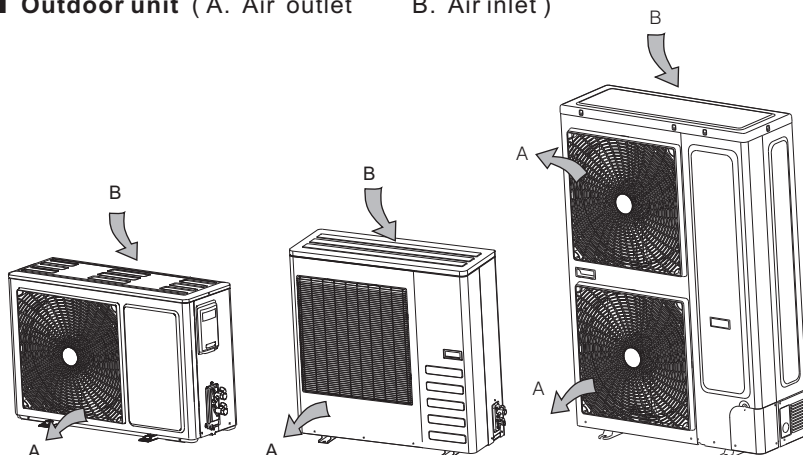
1. The unit must be installed in outdoor field where there is sunlitproof and rainproof establishments , or else our company is not responsible for the problems caused because of wrong installation.
2. All the operation parameters of the unit set , the set values of the protective device have been set before the delivery , the consumers are not allowed to change the set values at random , and also are not allowed to make the line of the protective devices of the machine set , short-circuit or the unit may be damaged as result of improper protection.
3. When the unit is running, the unprofessional personnel do not touch any electrical element and buttons, or it will result in serious accident.
4. If the unit goes wrong , don't repair it by yourself , please consult the service center of the company (the consultation telephone number can refer to the back over). If the machine set is repaired by unprofessional personnel , it may result in the machine breakdown or the casualty of personnel.
5. During cleaning the unit, never clean the operational panel with benzene, diluent agent , or chemical cloth and so on , or it will result into fade or the fault function of the buttons ; It is not allowed to directly sprinkle the unit with water or cleaning agent, when it is necessary, please clean them with a cloth that is stained with water or neutral cleaning agent.
6. In order to prolong the service time of the air- condition, please do not start the compressor frequently. (It should not be more than five times in an hour).
7. The refrigerant used in the machine set is noncombustible and innoxious , as for the specific gravity of which is greater than air , so when it leaks, it will diffuse on the ground. As a consequence, if the unit is installed in a room, it must make sure that the ventilation condition is good , or it way result in serious asphyxia when the refrigerant leaks.
8. If the refrigerant leaks, stop the unit as soon as possible, and get in touch with the maintenance and repairmen in time, the flame on the field is forbidden, because if the refrigerant contacts with the flame, it will decompose into harmful gas
9. Please service the machine set termly according to the requirements of the specification , in order to make sure that the operation condition of the machine set is good.

PARTS NAME AND FUNCTION

■ Indoor unit

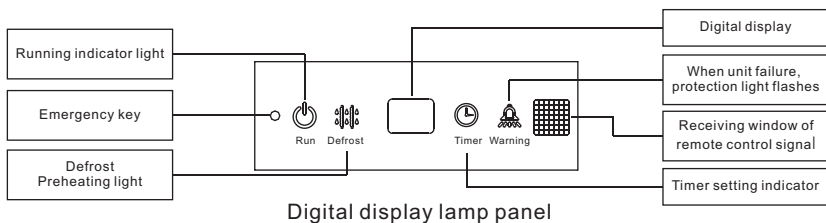
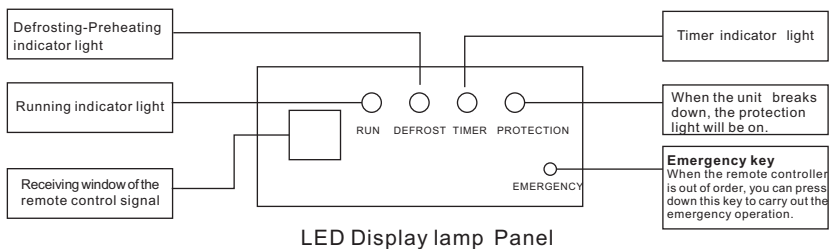


■ Outdoor unit (A. Air outlet B. Air inlet)



NOTE: The drawings above only can be taken as illumination.

■ The indicator light board of the indoor unit



CAUTION

When equipped with Digital display lamp panel, please toggle the fourth point of dialing switches SW1 to DP in the electronic controller of indoor unit, as shown in the right figure:

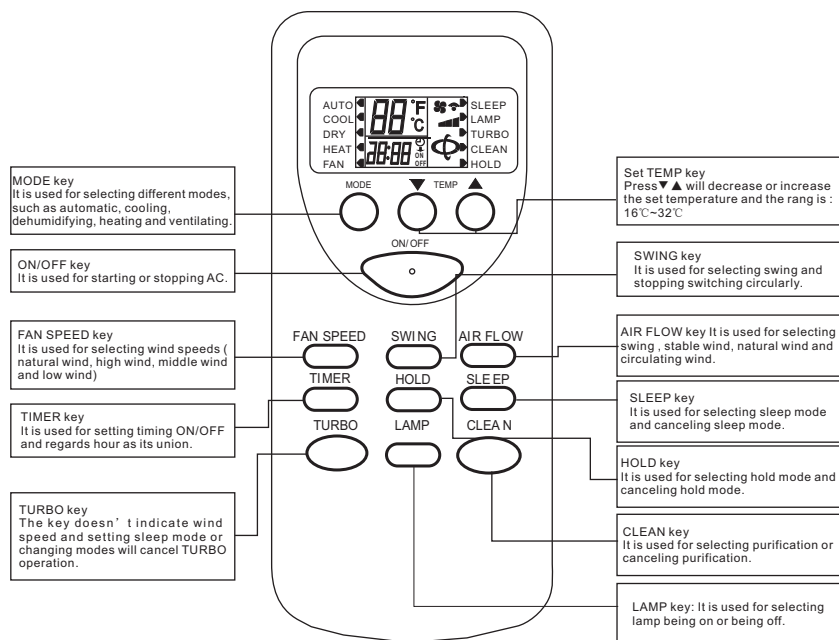


INTRODUCTION OF CONTROLLERS

2.1 Instruction for Remote controller

The model of the following remote controller is Lintong common remote controller.

TURBO key, LAMP key, AIR FLOW key and CLEAN key is applicable for special latest developed new models instead of normal ones.



2.2 Introduction of Functional Key

- **ON/OFF key**: Press the key and the remote control will switch circularly in the order : ON→OFF→ON.

When it is powered on at first from off state to on state, the default setting of work condition is (The set temperature is 25°C and the mode , wind speed, swing and air door are all automatic and there is no LAMP, no TURBO, no CLEAN, no SLEEP, no TIMER and no HOLD function). When it is not powered on firstly from OFF state, the work condition is as the same as the state before stopping. It will cancel LAMP, CLEAN, SLEEP, TURBO and TIME mode.

- **MODE key**: Press the key to switch modes in the order :
AUTO→COOL→DRY→HEAT→FAN→AUTO
- **▼ key**: In DRY mode or AUTO mode, pressing ▼ key cannot change the temperature. In other mode, press the key once and the temperature will decrease 1°C in the order : 32°C → 31°C → ... → 17°C → 16°C .
- **▲ key**: In DRY mode and AUTO mode, pressing ▲ key cannot change the temperature. In other mode, press the key once and the temperature will increase 1°C in the order: 16°C → 17°C → ... → 31°C → 32°C .

- **FAN SPEED key:** The default wind speed is in the automatic wind mode when starting firstly. The remote control won't react by pressing the key because the wind speed can't be adjusted and in low speed in dehumidifying mode. In other mode, press the key to switch modes in the order : automatic wind→ high speed →middle speed→ low speed →automatic wind.
- **SWING key :** In dehumidifying mode, the swing mode is in the stable wind mode without change. In other mode, press the key to switch modes in the order: swing →stable wind→natural wind →swing.
- **AIR FLOW key :** The default air flow is in the swing mode when starting firstly and press the key to switch modes in the order: SWING →STOP →SWING.
- **TIMER key :** The default mode is in no timing state, press the key to set timing time . The switch order is: 1H→2H→ ... →24H→cancel→1H... . Press the key to set timing starting in the OFF state and set timing stopping in the ON state. After setting timing function, the time keeps decreasing per hour until the time decreasing to the timing on or timing off and the timing display will be cancelled at the same time . Pressing MODE key can't cancel timing in timing mode which will set out timing time by pressing other key.
- **HOLD key:** The default state is in no HOLD key state, press the key to select modes in order: HOLD key →cancel HOLD key→ HOLD key ; In HOLD key mode, all keys except HOLD key of the remote control can't work .
(**NOTE:** In HOLD key mode, the remote and operation panel of the unit both will be locked automatically by pressing the key and press the key again , they will be unlocked. As for the split unit , it only hold the control other than EMERGENCY key and the panel will make a reaction.)
- **SLEEP key :** Press the key to switch modes in the order: SLEEP→ cancel SLEEP→ SLEEP. The sleeping function won't be cancelled for changing modes. Press the key to set sleep mode and the wind speed will automatically be switched to low speed and it can adjust the wind speed by pressing the FAN SPEED key (except dehumidifying mode).
- **TURBO key:** The default state for the control is no turbo and the key don't work in the AUTOMATIC mode, DRY mode and FAN mode (It will not display any contents and not send out any codes). The control, however, will switch between on and off by pressing the key in other mode. The wind speed isn't indicated in turbo mode and it will be cancelled for changing modes and setting sleep mode.
- **LAMP key :** The default state is in no LAMP key state, press the key to select modes in order : LAMP key →cancel LAMP key→ LAMP key; In LAMP key mode, pressing MODE key can't cancel the show of LAMP key.
- **CLEAN key :** The default state is in no purification state, press the key to select modes in order : CLEAN →cancel CLEAN→ CLEAN; In CLEAN mode, pressing CLEAN key can't cancel CLEAN function. Press the key when the remote control is closed, the control will switch modes in the order : CLEAN →cancel CLEAN→ CLEAN; When you stop the unit and turn on the purification switch, except the wind, the stable swing and air door swing speed aren't adjusted.

2. 3 Notices for operating the remote control

- ① Don't place the control near high heat source such as Electric blanket, warm furnace and so on.
- ② Don't expose the control in sun.
- ③ Take care for it and prevent it from damage for falling down.
- ④ Don't place any rolling obstacle between the signal acceptor of AC and the control, otherwise it may affect sending or incepting signals.
- ⑤ Don't spray water or other liquid on the control.
- ⑥ Don't place any clog on the control.

NOTE: When the remote control is out of work, please replace the battery and operated it once ; If the failure hasn't be cancelled, please take urgent operation methods to restart the AC.

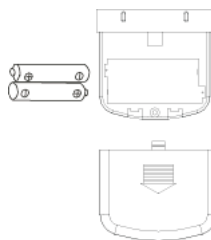
2. 4 Replace batteries of the remote control

If the following condition appears, which mean that the batteries have been used up, please take out of the old batteries and change for new ones.

- ① After sending the signal, the air conditioner can not send receiving sound.
- ② The display screen is not clear

The operating steps are as follows:

- Remove the back cover, take out of the old batteries.
- Replace batteries, please notice the poles “+” and “-” on the batteries.
- Close the back cover and set the current time.
- Make sure whether it indicates a.m. 0:00 or not.



Pay attention to poles of “+” and “-”



NOTE

1. New and old batteries can not be used together.
2. If the remote controller will not be idle for long time, please take out of the batteries.
3. The service life of the dry batteries, accorded with the requirements of the standard of JIS or IEC, is 6 to 12 months under common condition ; Overrunning the service time or using dry batteries , which are not accorded with the above mentioned specifications, the liquid seeping phenomenon may be occur on the battery and the remote control won't work.
4. There is “Advised Service Time” marked on the battery, the practical service time may be shorter than the advised one.

PREPARATIONS FOR INSTALLATION



CAUTION

The installation of the unit has to be carried out by the professional installation operator. Improper installation of the unit may cause water leakage, an electric shock or fires .

3. 1 Selection of the installation site

3. 1. 1 Installation sites for the indoor unit

- ① Please install the indoor unit in the spacious places where the air blown out by the indoor unit can reach every corner of the room as quickly as possible and also can provide the space to maintain the indoor unit .
- ② Make sure that the air inlet and the outlet of the indoor unit should not be blocked, nor be affected by the adjacent heat and the hydrosphere.
- ③ It should be installed in a clean place where there is little oil gas and little of steam.
- ④ It should not be installed in a place where there is the inflammable gas .
- ⑤ It should be never installed at the place beside the equipments with high frequency, such as the high frequency electric welding machine.
- ⑥ It should never be installed in these places where the fire alarm is near.
- ⑦ It should never be installed in these places where there are full of acid solvent .

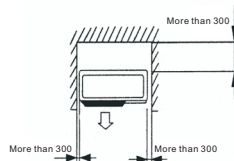
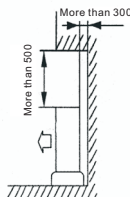
3. 1. 2 Installation sites for the outdoor unit

- ① If possible, do not install the unit where it is exposed to direct sunlight or install a sunshade facility;
- ② Make sure your neighborhood will not feel uncomfortable with the noise or the exhaust.
- ③ Make sure that it is easy to install the connecting pipes or cables ;
- ④ It should not be installed in a place where there is the inflammable gas.
- ⑤ During the heating mode, the water drained off the outdoor unit, make sure the drain water from chassis should be well drained away by the drain hole to an appropriate place, so as not to interfere other people.

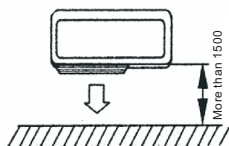
3. 2 Requirements of the installation and the maintenance space (Applicable for outdoor units)

3. 2. 1 Installation of one single unit

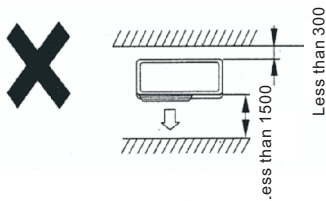
- ① As for the case that there are barriers on the top of the equipment , make sure there is enough installation space shown in the figure below no matter whether there are barriers in the back of the equipments.
- ② When the front side (the air outlet) is open, make sure there is enough installation space shown in the figure below no matter whether there are barriers in other three sides around the equipments. (the top of the equipment was open)



- ③ As for the case that the barriers only exist in front of the equipment , please keep open in the back , left and right sides and the top side of the equipment.

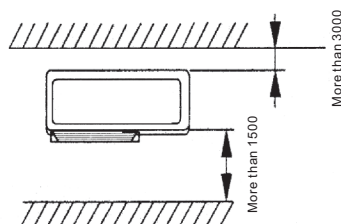


- ④ As for the case that barriers exist in the front and the back sides of the equipment , the installation shown in the following figure is not allowable.

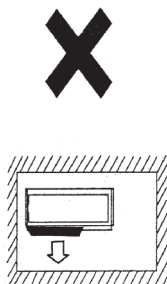


- ⑤ As for the case that the barriers only exist in the front and the back side of the equipment. In order to keep unblocked the air supply inlet and the air outlet of the outdoor units installed the place where the barriers exist and without good ventilation, please make sure that the height and the width of the barrier should be in the following ranges (As long as the front and the back sides space of the equipments both can satisfy the basic conditions, the space of left side or right side is free.)

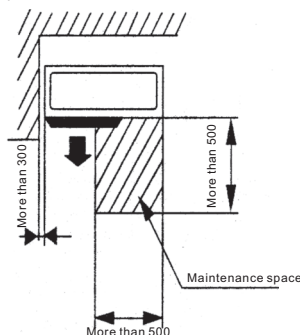
- The width of the barriers is less than 1.5 times of the width of the indoor units.
- The height of the barriers is less than 1 time of the height of the indoor units.



- ⑥ The barriers exist in the four sides of the equipments, the equipments can not be installed even though the top of the equipment is open.

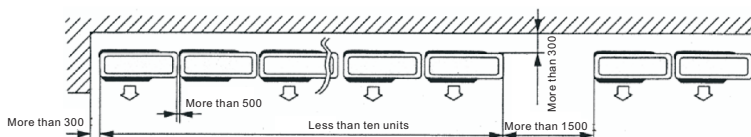


- ⑦ As shown in the following figure, you must make sure enough space for the maintenance operation of the equipments in front of the equipment.

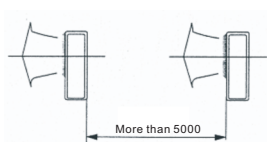


3. 2. 2 Installation of several units(unit: mm)

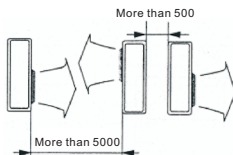
- Installation in parallel . (please dismantle the bolts besides the matching pipeline)



■ Arrange in multi-row



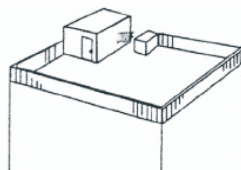
■ Arrange in face-to-face blowing ways



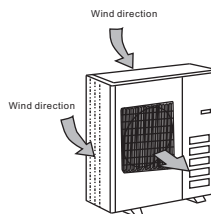
3. 2. 2 The case for installation of the equipments on the roof or other strong wind places

If the outdoor unit is installed on the roof or other spacious places, you should keep air outlets of outdoor units from the strong wind, which may lead to the lack of air flow to cool or heat the heat exchanger and get a poor heating or cooling performance even result in breakdown.

- ① If the unit is installed in the place near the wall, keep its air outlet pointing the wall and make sure that the unit will be 500mm away from the wall.



- ② When the air outlet was affected by the strong wind or the direction of the wind, remove the unit so as to keep the wind will be blown at the air outlet in the vertical direction.



INSTALLATION OF THE UNIT

4. 1 Install Indoor unit

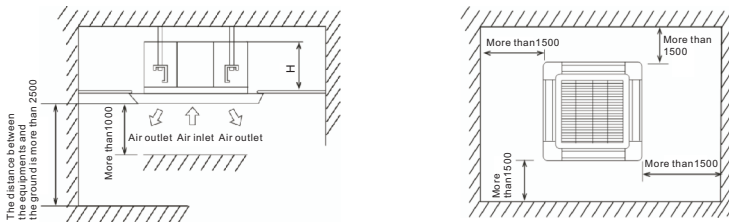
4. 1. 1 Installation place

When the temperature of the ceiling inside is higher than 30℃, and RH is higher than 80%, More than 10mm heat insulation materials, such as fiber glass cotton or froth polyethylene should be slicked on the casing of the unit. (if the thickness of the heat insulation materials is more than 10mm, the extra part should be folded up and placed in the opening of the ceiling).

- The indoor unit can be installed on the ceiling with the height of 2.5~2.5mm.
- When installing the indoor unit, the lifting screw rod will be used and make sure installation foundation is firm enough to support the unit, otherwise, please take some measurings to reinforce it prior to installation. The hole pitch has been marked on in the installation paper matrix, please refer to those specification and find out the places where the reinforcing measures should be taken.
- Make sure there is no obstacles in the place where is 1meter away from the air outlet.

Installation space

unit: mm



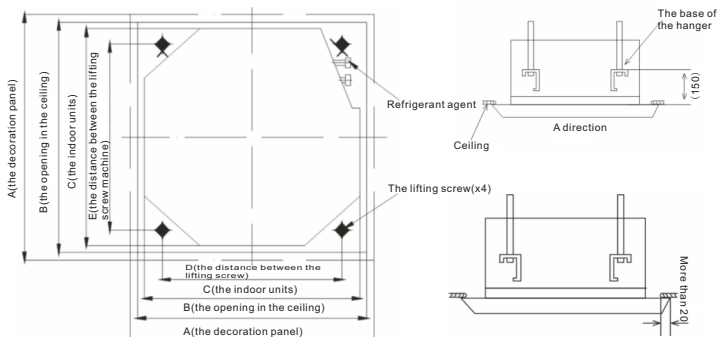
Installation dimension

unit: mm

Model (kBTu/h)	Dimensions(H)
For 18, 24 series	230
For 36, 48, 60 series	285

4. 1. 2 Installation procedures for indoor units

- The position relationship between the opening in the ceiling, the unit and the lifting screw



unit: mm

Model (kBtu/h)	Dimensions(H)				
	A	B	C	D	E
For 18, 24, 36, 48, 60 series	950	890*	840	680	780

NOTE:

- ① The dimensions of the opening of the ceiling marked by the star symbol can surpass 910mm, but the overlap sections of the ceiling and the decoration panel should be more than 20 mm.
- ② As for existing ceiling, a proper opening for installation should be dig
 - a. On the installation paper-matrix, you can get the detailed information about the dimensions of the opening of the ceiling.
 - b. Before installation, please finish the installation of all ducts (refrigerant duct, drainage duct)and the connection of the all power lines(the power lines of the outdoor unit), once the installation has finished, the ducts and the power lines can be connected with the indoor units immediately.
 - c. The opening in the ceiling can reinforce the ceiling and prevent the ceiling from vibrating.

■ The installation of the lifting screw(using the W3/8 M10 bolt)

- ① In order to support the unit, the ground anchor bolts are needed for existing ceiling and as for new built house and ceiling, however, buried anchor bolts or other parts (supplied in the field site) .
- ② And then adjust the distance between anchor bolts and the ceiling.

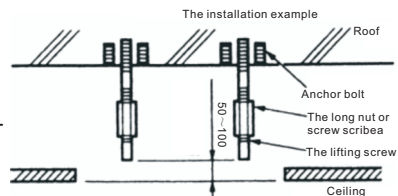
4. 1. 3 Installation for indoor units

■ When there is no installation position in the ceiling board

- ① Attach the base of the hanger on the lifting screw, the nuts and washers are used in two ends of hanger base to firmly fix the base. Besides, the washer positioning board is used to prevent the washer from falling off.
- ② As for the dimensions of the opening of the ceiling, please refer to the installation paper-matrix or consult the constructor or the carpenter.

The installation paper-matrix is fixed on the unit with three screws and on the paper-matrix, the central position of the opening in the ceiling has been marked out . The corner of the water drainage groovy at the water outlet of the duct is also fixed by screws.

unit: mm



NOTE: all the parts above mentioned will be supplied at the installation site

- ③ Adjust the unit to the correct installation position.
- ④ Check whether the unit is in the horizontal level.

Because the indoor unit has inside water drainage switch and float switch. Check the four corners of the units separately to make sure that the four corners are in the horizontal level by using the level gauge or the polythene duct filled with water (if the unit inclines to the reverse direction to the flow of condensation water, it may lead to the float switch out of work and result in water dropping).

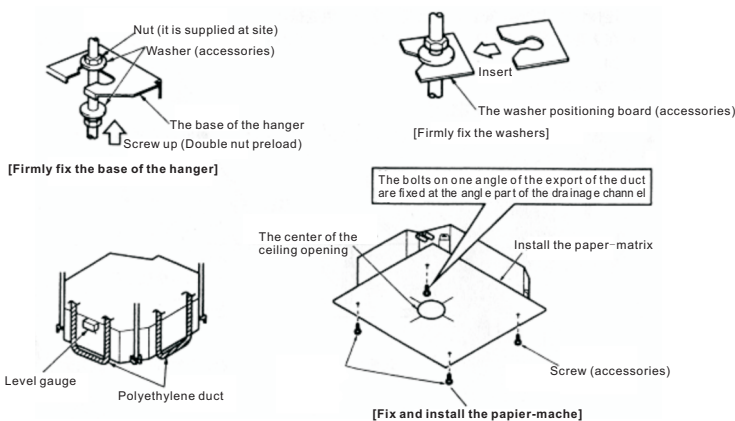
- ⑤ Remove the washer positioning board and fasten the nut.
- ⑥ Remove the installation paper-matrix.

■ When there is installation position in the ceiling board

- ① Temporary installation of the indoor unit

Attach the base of the hanger on the lifting screw, the nuts and washers are used in two ends of hanger base to firmly fix the base. Besides, the washer positioning board is used to prevent the washer from falling off.

- ② Adjust the position and the height of the unit
- ③ Carry on the operation procedure of ④ and ⑤ steps above;



4. 1. 4 Install the panel

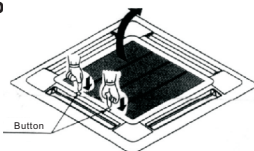


CAUTION

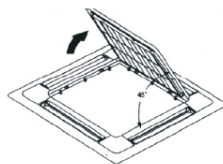
- Never keep the panel facing the ground nor again the wall or on protuberant objects.
- Never crash or strike the swing plate in case of breakdown.

■ Take down the return air grill from decoration p

- ① Press the button of the return air grill, and then lift one end of the button (Refer to the left figure)

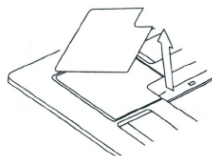


- ② Draw the grill up to an angle of about 45° , and remove it (Refer to the right figure)



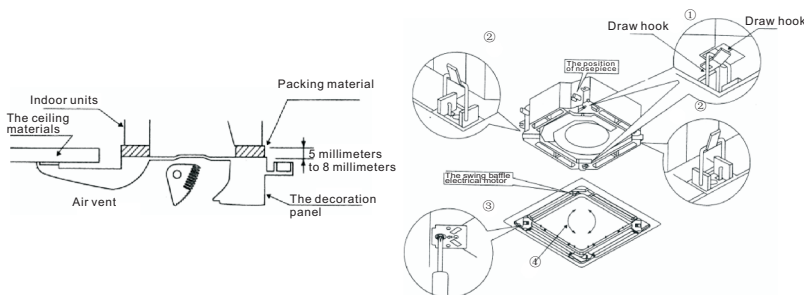
■ Remove the seal cover at the four corners

(Draw the seal cover out , Refer to the right figure)



■ Install the panel

- ① Align the swing motor on the panel to the tubing joints of the body properly.
(Refer to the following figure)
- ② Hang the draw hooks opposite to swing motor of the decoration panel on the hooks of the indoor unit. (Refer to the following figure)
- ③⑥ Then hang the other two panel hooks onto corresponding hangers of the body.
(Refer to the following figure)
- ④ Screw the four hexagonal screws under the draw hook into approximately 5mm.
(the panel will raise along with it)
- ⑤ Screw up the screws so that the thickness of the air-proof materials between the panel and the indoor unit reduces to 5 ~ 8mm.



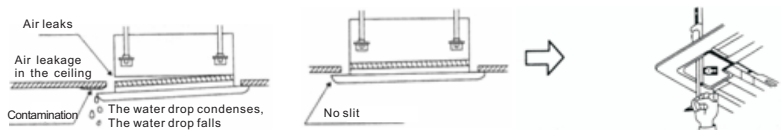
CAUTION

Do not coil the wiring of the swing motor into the seal sponge.

If the screwing is too loose, it will cause following faults.
Therefore, screw up the screw again to the stated requirement.

After finishing twisting the screw, if there is still slit between the ceiling and the decoration panel, please readjust the height of indoor unit.

When indoor unit is located in the horizontal position but the drain water can not be drained out, please adjust the height of the indoor unit through the angle hole on the decoration panel.



■ Lifting height of the indoor unit

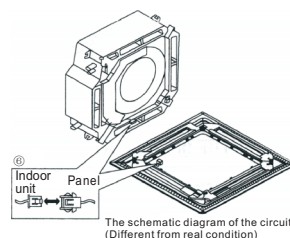
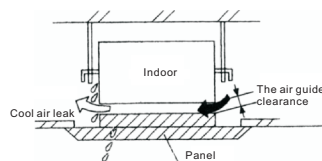
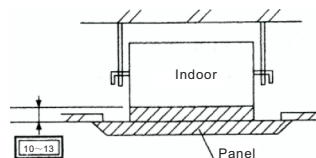
Please adjust the lifting height of the indoor unit as the right figure:

① If there is slit between indoor unit and panel, it will be harmful as the following:

- a. Condensation will be generated outside (ceiling inside) and inside the product because of the air in the ceiling or the gas leakage from the ceiling.
- b. The horizontal leaf blade will condensate, the water will splash and condensation will be generated in the machine because of air current blowing out disorderly.

② The circuitry of the decoration panel (please see the right figure)

- a. The connector of the wire of the swing electrical motor should be properly attached (located on decoration panel)
- b. If unconnected, then the swing plate will not act
- c. Insure that the wire of the swing electrical motor is not trapped between indoor unit and the decoration panel.



4. 1. 5 Install return air grill and close cover

■ Install the return air grill

Following the opposite installing steps with "4. 1. 4 Install the panel" to carry on the installment. Rotating the return air grill, it may be installed in 4 directions.

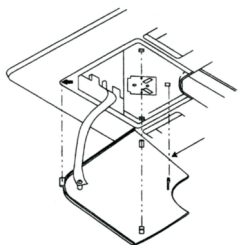
If needing to adjust the installment direction of the return air grill, or users put forward new requirement, installment direction can be changed.



CAUTION

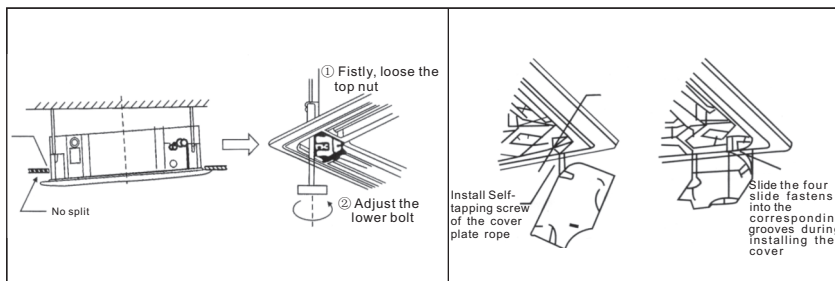
Do not coil the wiring of the swing motor into the return air grill when installing.

- Fix the close cover on the panel (refer to the following figure)



Insert the four pins on the close cover into the corresponding hole on the decoration panel before installation.

- Put the return air grill on the panel and then connect the swing motor on panel and lead connectors of control box to the corresponding joints of the main body;
- Install return air grill according to the opposite steps for removing the grill.
- Reinstall the installation cover plate
- Fix the rope of the installation cover plate with screws on the bolts of the installation cover plate (please refer to the lower right figure)
- Push gently the installation cover plate into the panel.



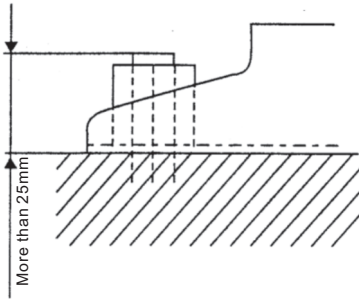
4. 2 Install Outdoor unit

4. 2. 1 Installation precaution

- It is advisable to transfer the parts of the unit with complete packing to the installation field site.
- Pay attention to the lifting of the unit , for its center of gravity not at the central position.
- Keep the outdoor unit not incline too much, the angle not more than 45° during transportation(it is not allowed to store the unit in level in the storehouse)

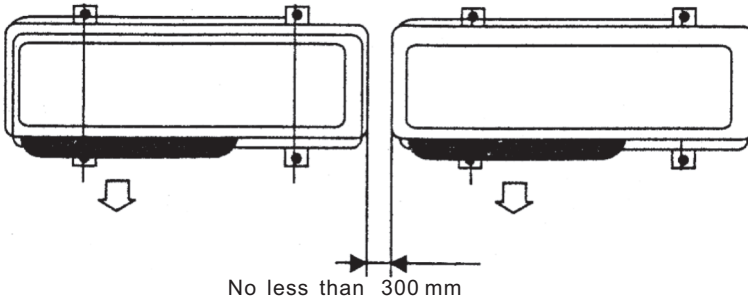
4. 2. 2 Installation

- When installing the outdoor unit, you should use bolts to fix the base of the unit (the bolts of the base are supplied on the spot)
- The unit should be installed firmly in order to prevent it from collapsing result in the earthquake or the strong wind .
- The unit should be installed on the concrete basis, refer to the following figure.



NOTE: Make sure the length of the basis bolts no more than 25 mm (Counting from the bottom installation basis)

- The pitch is no less than 300 mm between the unit installed in parallel .



4. 3 Install refrigerant pipes and drain pipes



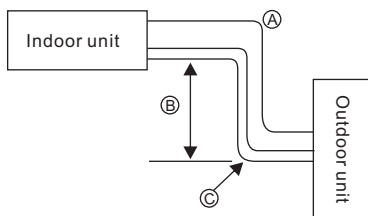
CAUTION

- If there is no special conditions, you should chose the tubes of our company .
- If there are some special conditions, and need purchase other types of the refrigeration duct , please purchase good heat-insulated pipes with the thickness more than 9 mm in case of the dewing on the duct.
- Before installing the drainage tube(accessory), you should also purchase some cable groove ($\Phi 16$, ID) for connecting the drainage duct. In case of dewing, please wrap the groove with 9mm insulating sleeve.

4. 3. 1 Dimensions of refrigerant pipes

Model (kBtu/h)	Refrigerant liquid duct	Refrigerant gas duct
For 18 series	Outside diameter $\Phi 6.35(1/4")$	Outside diameter $\Phi 12.7(1/2")$
For 24 series	Outside diameter $\Phi 9.52(3/8")$	Outside diameter $\Phi 15.88(5/8")$
For 36, 48, 60 series	Outside diameter $\Phi 9.52(3/8")$	Outside diameter $\Phi 19.05(3/4")$

4. 3. 2 The lengths and height difference of air-conditioning super-long pipes are as follows:



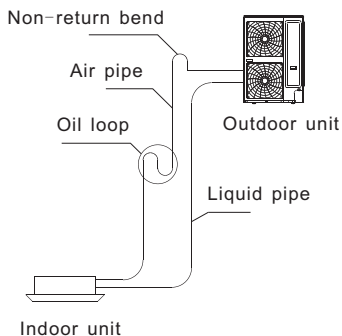
Model (kBtu/h)	A Max. Length (single pass)	B Max. Height difference (single pass)	C Max. Bend numbers
For 18 series	15m	10m	10 pieces
For 24, 36, 48, 60 series	20m	10m	10 pieces



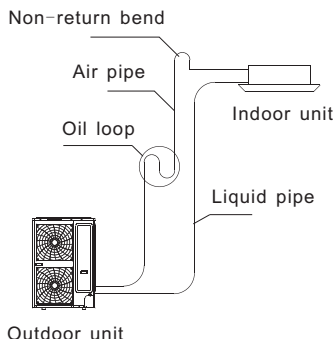
CAUTION

When the height difference is more than 5 meters between the indoor unit and the outdoor unit, some oil loops or non-return bends need to be installed in the pipeline system.

The case of the outdoor located higher than the indoor unit



The case of the indoor located higher than the outdoor unit

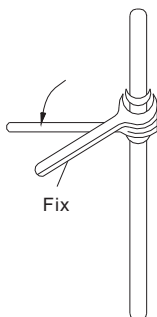


4. 3. 2 Tubing steps

■ Make shut-off valves or ball valves off according the original state of the valve(the specification before delivery), disassemble the nuts of the indoor and outdoor duct , dust prevention caps and spiral stoppers of the tubing.

- ① In case of the entry of dust, moisture or other foreign objects, please carry out the connection of the flares immediately, otherwise it causes the fault of the devices.
- ② Please wipe the refrigeration oil coating on the joint before screwing up the flare nut .
- ③ Please use two spanners for the pipe connection, as for detailed information about its torque, please refer to the following table.

The diameter of the duct Φ(millimeter)	Torque(kgf・m)
6.35	1.4~1.7
9.52	1.4~1.7
12.7	4.8~6.2
15.88	4.8~6.2
19.05	6.9~9.9



NOTE:

Please use two spanners, one common spanner, and the other moment spanner.

■ Continue to connect other flares and finish the connections of all refrigerant pipes.

After connecting the duct, fill some nitrogen or refrigerant and then detect whether there is some leakage at joints with the leak detector or wipe some subs on the joints.

■ Call the professional to vacuumize the duct at the service port or shut-off valve of outdoor units



CAUTION

- When the connection duct is more than 5 meters (single pass), empty the duct with the vacuum pump and charge some refrigerant according to the requirements of “the adjustment of the usage amount of the refrigerant” .
- If the air conditioner will be moved to another place, you should use the vacuum pump or the refrigerant tank to empty the air conditioning system.

■ After the above operations have been completed, keep shut-off valves or ball valves of the outdoor units in the full open state.

- Pressure test, vacuumize and leakage check for connection pipes and indoor pipeline:

After installing the units and connection ducts, keep filling the connection duct and the pipeline of the indoor units with nitrogen gas until the pressure in the duct reach 3.0MPa (absolute pressure); Maintain this pressure for about 24 hours; Meanwhile, the leak test should be carried out to each joint and weld points by using soap bubble, if there is no leak point, please discharge the nitrogen gas to get the degree of vacuum less than 30Pa, and maintain this pressure value for about 24 hours, and then open the valve of the main machine to start the commission.

4. 3. 3 Additional Refrigerant Charge

If the length of the refrigerant line exceeds 5 meters, please charge some refrigerant according to following experienced formula:

$$R = L1 \times 0.030 \text{kg/m} + L2 \times 0.065 \text{kg/m} + L3 \times 0.115 \text{kg/m} + L4 \times 0.190 \text{kg/m} + L5 \times 0.290 \text{kg/m} + L6 \times 0.380 \text{kg/m} + L7 \times 0.580 \text{kg/m} + L8 \times 0.760 \text{kg/m}$$

Remarks:

R--Total charging amount of refrigerant;

L1 --Total length of $\phi 6.35$ Liquid pipe

L2 --Total length of $\phi 9.52$ Liquid pipe

L3 --Total length of $\phi 12.7$ Liquid pipe

L4 --Total length of $\phi 15.88$ Liquid pipe

L5 --Total length of $\phi 19.05$ Liquid pipe

L6 --Total length of $\phi 22$ Liquid pipe

L7 --Total length of $\phi 25.4$ Liquid pipe

L8 --Total length of $\phi 28$ Liquid pipe



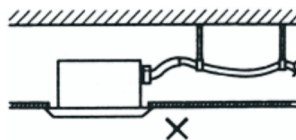
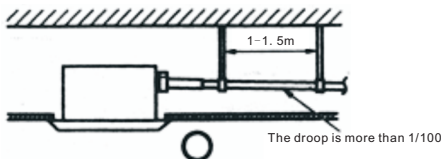
CAUTION

Please fill the refrigerant in cooling mode through the needle of the low-pressure valve of the outdoor unit!

4. 3. 4 Install the drain pipe

Make sure that there is enough space to install drain pipes and the diameter of the drain pipes should be no less than the diameter of the connection duct.

- In case of condensate water accumulation and make sure water drainage expedite, please keep the drain pipe as short as possible and its droop more than 1%.
- If the droop of drainage hose cannot meet the requirement, the lifting duct should be installed.
- Keep the interval between hangers range from 1 to 1.5 meters to prevent the drainage hose from bending.

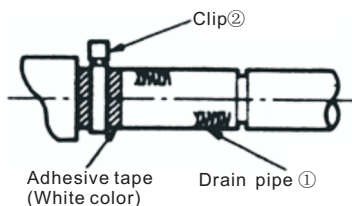


■ Use Drain hose ① and Clip ② (Attachment).

Insert the drain hose into the drain faucet to the white adhesive tape and then screw down the clip so that the distance between the bolt head and hose is less than 4 mm.

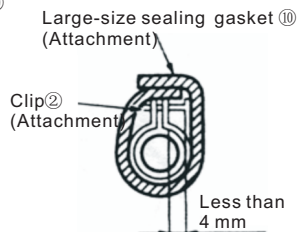
■ In case of water leakage for dewing, please take some heat-insulated measures for the indoor drain hose and the drain faucet.

● Drain pipe in the room;



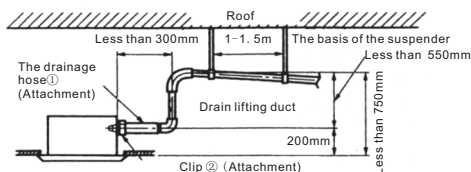
● Drain faucet

Carry on heat insulation operation for the clip and drain pipe with Large-size sealing gasket ⑩



■ Notes of the drain lifting duct

1. The installation height of the drain lifting duct is less than 550mm;
2. Keep the lifting duct with the unit in vertical and the distance less than 300 mm.



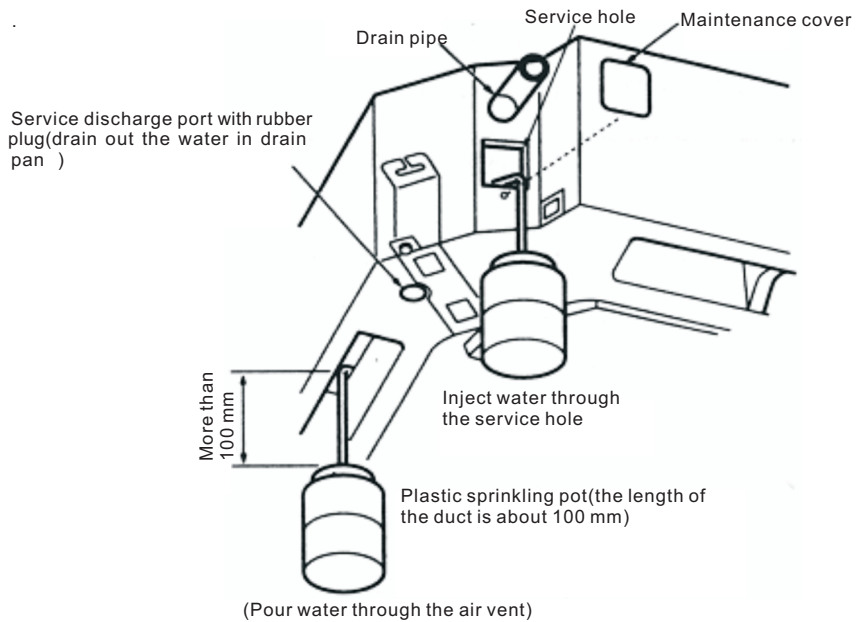
CAUTION

- In case of water leakage, please don't drag the drain pipe violently;
- Please install the drainpipes according to the following steps if several drain pipes are converged in one drain pipe.



- **Step one** Choose the proper join drain pipe according to the running capacity of the unit.
- **Step two** After the installation of the drain duct, inject 2000ml water into the air vent or the service port, and then check whether the drainage is free ;
- **Step three** After the installation of the circuit , check the drainage condition during cooling operation, as for the details, please refer to "TEST OPERATION".

Water injection sketch figure



TEST OPERATION

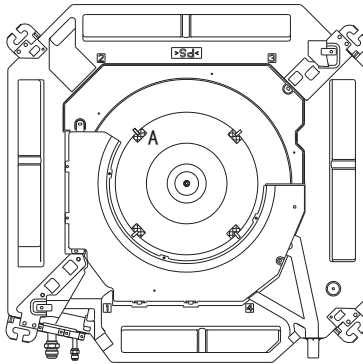
5. 1 Please confirm the following points before the test operation:

- The indoor unit and outdoor unit are installed properly.
- Tubing and wiring are correctly completed.
- There is no leakage in refrigerant pipe system .
- The drainage is unimpeded.
- The heating insulation works well.
- The ground wiring is connected correctly.
- The power voltage fits the rated voltage of the air conditioner.
- There is no obstacle at the outlet and inlet of the outdoor and indoor units.
- The gas-side and liquid-side stop valves are both opened.
- The air conditioner is pre-heated by turning on the power.



CAUTION

The compressor can not run unless the power wires are connected well.



CAUTION

Be sure to remove the four wind wheel absorber blocks (A) and the fixing tape before test running!

5. 2 Test operation

- Switch on the main power supply of this unit.
- Press the emergence operation switch(cooling or heating) to start up the air conditioner, and the operation indication light flashes. Check whether the unit is running well and if you want to shut down the air conditioner, just press the emergence switch again.
- Press “ON/ OFF” key on the remote controller, if you can hear “beep ” sound from the indoor unit, it means the remote controller is working and the emergency operation has been relieved , and then you can check whether the unit can run well in each mode by pressing the corresponding keys:
 - Press “MODE” key and choose FAN mode, check whether there is air flow blowing out from the air conditioner.
 - Press “MODE” key and choose COOL mode, check whether the air flow blowing out from the air conditioner is cool.
 - Press “MODE” key and choose HEAT mode, check whether the air flow blowing out from the air conditioner is warm.(This function is not applicable for single-cooling type unit.
 - Press “WIND SPEED” key and choose the high speed mode, check whether there is a strong air flow blowing from the air conditioner.
 - Press the “SWING ” key and observe Whether the air flow louver moves normally.

5. 3 Test drainage device

- After the installation of the unit, you must carry out a test of the drainage equipments
- During test operation, make sure that the water in the equipment is drained freely and no leak at the joint.

After the installation and the commissioning of the unit , the installation personnel should introduce methods of operation and use of the unit and the relevant safety notes according to the operation manual.

MAINTENANCE AND UPKEEP

6. 1 Clean the air filter

If the air filter is blocked, it will reduce the air circulation amount and affect the effect of the cooling air and the warm air ; What' s worse, it will lead to the air conditioner break down. Therefore, please clean the air filter at least once every two weeks during long time usage.

If the unit will is idle for a long time, the air filter should be cleaned before starting the unit.

6. 1. 1 The cleaning procedures of the air filter

- Dismantle the air filter
- Clean the filter with the dust collector or water
- If the filter is cleaned with water, place it in a shady and cool place to dry.



CAUTION

- In case of fading or deformation of the filter, never clean it with the hot water of which the temperature is higher than 50℃ ;
- Never dry the strainer by a fire, otherwise, it may catch fire.

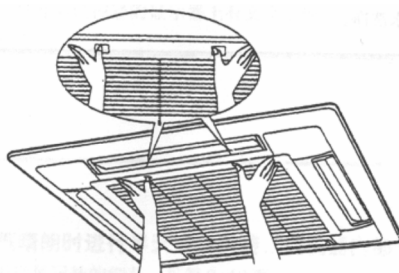
When you clean or upkeep the unit, firstly , you must turn off the power supply of the unit and pull out the power plug. And the cleaning or maintenance should be operated by professional personnel.

6. 1. 2 The cleaning methods of the indoor unit

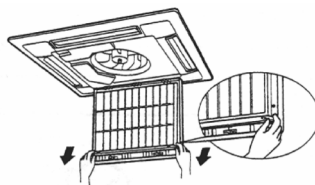
- Wipe the outside of the unit with a clean and soft dry cloth
- Use the neutral domestics cleanser agent(such as clean agent) to clean any oil contamination or the fingerprint

6. 2 Dismantle the return air grill and the air filter

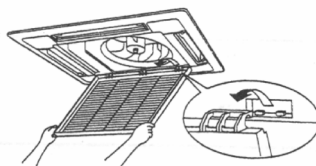
■ Open the return air grill: Pess the two buttons, and pull them downwards slowly as indicated in the right figure (when closing the return air grill, follow the same operation steps):



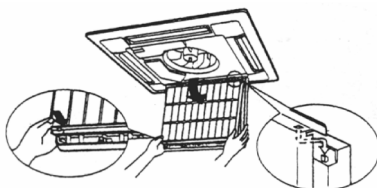
■ Dismantle the air filter net: hold on the draw hook of the air filter and pull it along the lower inclined side to take out the strainer as indicated in the right figure:



■ Take out the return air grill: Open the return air grill at the angle 45 ° and then lift it up and take it out, just like the right figure.



■ Install the air filter and the return air grill after cleaning them according to the opposed operation steps above, as indicated in the right figure.



6. 2 Set indoor temperature

In the cooling mode, It is comfortable when the temperature difference varies in 5℃ between the indoor temperature and the outdoor temperature varies in 5℃ . If the indoor temperature is too low , it will not only do harm to your health but also consume more electric energy: For example, it will reduce 10% energy consuming by increasing 1 °C of setting temperature in cooling mode.

6. 3 Away from the heat source

When the air conditioner is operating in cooling mode , you should close the curtain to ward off the sunlight ; Besides close the windows and doors and don't open the door in too short time if not necessary.

6. 4 Ventilate and exchange air of the room

You will feel more comfortable if you open the windows at a regular interval to let the fresh air into the room.

6. 5 Maintenance after a long stop period

(eg. at the beginning of the season)

- Check whether the installation of the outdoor unit and the connection of the grounding lines and power cables are all in good condition.
- Check and remove everything that might be blocking inlet and outlet vents of indoor units and outdoor units.
- Check whether the air strainer is installed in the right place.

6. 6 Maintenance before a long stop period

(eg. at the end of the season)

- Turn on the air conditioner and let it run in FAN operation for about 3 or 4 hours in order to dry the interior of the units.
- Turn off the air conditioner and cut off its special power supply .
- Clean air filters and casings of indoor units.
- Take out the batteries of the remote controller and put away the remote controller.
- Cover the units with a protective cover to prevent the duct from coming into the unit.

TROUBLESHOOTING

7. 1 Malfunction analysis

When air conditioner goes wrong before you contact the servicing department, please read the following contents, it will help you save much more time and energy.

Problems	Phenomena	Causes	Solution
Air conditioner fails to run	Press "ON/OFF" key on the remote controller, no "beep" sound comes from the indoor unit and the RUN light is off	Power failure	Press "ON/OFF" key after comeback of power
		Power switch is off.	Turn on power supply
		Fuse of power switch may have burned.	Replace the fuse
		The creepage switch is off	Turn on the creepage switch
		The remote controller is working out of the function range	Operate the remote controller in the function range of the remote controller
		Batteries of remote controller exhausted (Information on the screen darken)	Replace them with new batteries
Air conditioner fails to start	Remote controller indicates that the air conditioner is working	Be in 3 minutes protection of compressor.	Wait or call your dealer for service
After starting up, the air conditioner will stop working in a short time		Air inlet or outlet of the indoor or outdoor unit are blocked	Eliminate all dirties and make air smooth.
		The air filter is dirt	Clean the filter
Air flow is normal but the air blew out is not cool or warm	Remote controller indicates that the air conditioner is working	Temperature is not set correctly, too high in COOL mode or too low in HEAT mode	Set the temperature properly.
		The air filter net has been blocked with dust or dirt	Clean the ail filter net
		Air inlet or outlet of the indoor or outdoor unit are blocked	Eliminate all dirties and make air smooth.
		Doors and windows are open	Close doors and windows

Once the air conditioner break down for power failure , it can start only by pressing "ON/OFF" key on the remote controller even if the power restores.

7. 2 Self-fault diagnostic function

Our company will provide convenient service to our customers, and install all kinds of judgment systems, which can display the unmoral function of the unit .

Fault codes table

Faults	LED flashing conditions	Digital display	Instruction
Probe of Room temp. sensor goes wrong	TIMER lamp flashes at the speed of 5 Hz	E2	The system will recover normal operation once faults are eliminated
Probe of Evaporator sensor goes wrong	RUN lamp flashes at the speed of 5 Hz	E3	
Probe of Condenser sensor goes wrong	Defrost lamp flashes at the speed of 5 Hz	E5	
Water fulfilled protection	Warning light flashes at the speed of 5 Hz	F5	
Outdoor unit protection	Both defrost lamp and warning light flash at the speed of 5 Hz	F2	
Communication fault	Both RUN lamp and defrost lamp flash at the speed of 5 Hz	E1	The display should be cleared up by manual
EEPROM Communication fault	Both RUN lamp and TIMER lamp flash at the speed of 5 Hz	P6	Recovered after blackout
Forced cooling indication	Both RUN lamp and warning light flash at the speed of 5 Hz	No	The display will be cleared up after exiting the operating mode.
Anti-cold wind indication in heating mode	Defrosting preheating is ON	P1	The display will be cleared up after exiting the operating mode.

Following cases are not air conditioner troubles

1. Sometimes, air conditioner may give off odours, for the unit can absorb the smell of rooms, furniture, cigarettes, makeup, etc., and then emit it again.
2. A continuous low hissing sound is heard when the system is in operation. This is the sound of refrigerant gas flowing through both indoor and outdoor units.
3. When starting up or stopping the air conditioner, you can hear “cracking” sound from the air conditioner, this sound is produced by the contraction or the expansion of the structural part of the air conditioner , which is caused by temperature change

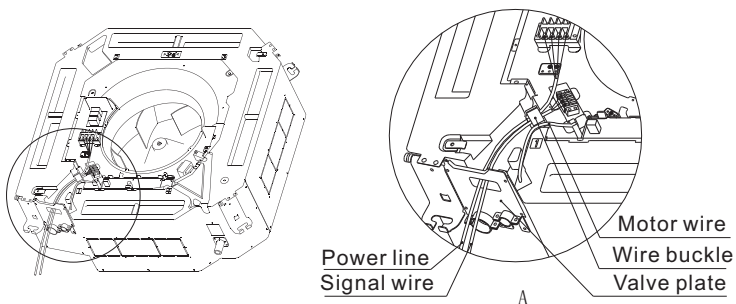
ELECTRIC WIRING

8. 1 Electric wiring precaution

- Wiring construction must conform to National Wiring Norm;
- The air-conditioner should apply special power supply and set leakage protective switch. The rated operation current of the switch should be no less than 1.5–3 times of the rated operation current of the unit (The actual value of rated current of the unit is list on its nameplate and the one in this manual is just for a reference) ;
- Make sure unit voltage and select proper wires prior to wiring;
- Wiring construction and connections of other individual parts must be conducted by the professional technicians according to the circuit diagram attached on the unit.
- Please pay attention to marks at the terminal in case of wrong connection.
- In case of grave accidents, never mistake the signal terminal of indoor units with the one of outdoor units;
- Please tighten screws to avoid of wires drop according to the wiring diagram.
- Install equipments with the auxiliary electric heater outside the evaporator and keep them 5cm away from the flammable;
- Make sure there is enough space for electric devices installation and the minimum allowable distance between devices;

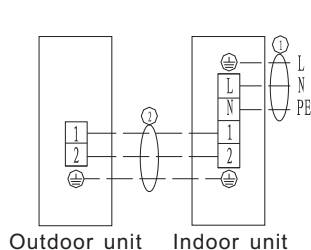
8. 2 Cables wiring construction of indoor units

- Take down the cover of indoor electric control box;
- Connect power cables and signal wires to the corresponding terminals according to Power Wiring Diagram above;
- Open the cord cleat and then fix power cables and signal wires on the board of the cord cleat;
- Fix on the electric control box;



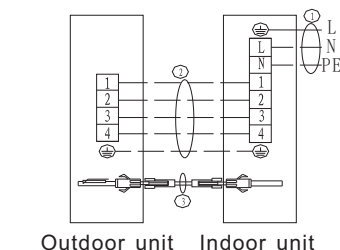
Note: The arrangement diagram is only for signal wire and power line. For wiring, please refer to power wiring diagram.

8. 3 Power wiring diagram



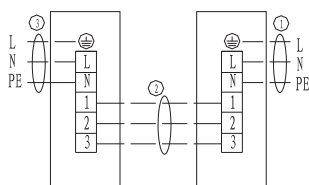
Outdoor unit Indoor unit

Applicable for 18K
cooling only type



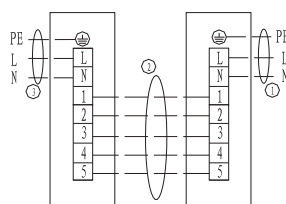
Outdoor unit Indoor unit

Applicable for 18K heatpump type



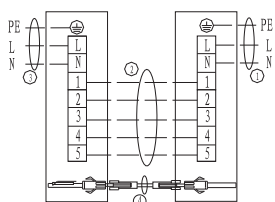
Outdoor unit Indoor unit

Applicable for 24K, 36K, 48K,
60K single-phase cooling type



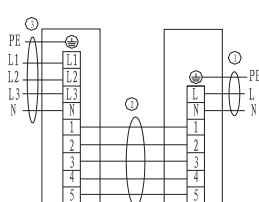
Outdoor unit Indoor unit

Applicable for 24K (have outdoor
unit E-parts board) , 36K, 48K, 60K
single-phase heatpump type



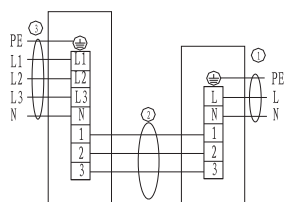
Outdoor unit Indoor unit

Applicable for 24K (haven' t
outdoor unit E-parts board)
single-phase heatpump type



Outdoor unit Indoor unit

Applicable for 36K, 48K, 60K
three-phase heatpump type



Outdoor unit Indoor unit

Applicable for 36K, 48K,
60K three-phase cooling type

8. 4 Power Wires Spec. Table

Items Model (kBtu/h)	Outdoor power wires	Indoor power wires	Signal cables	Power supply types
18 series (Cooling & Heating)	/	3 x 1.5mm ²	5 x 1.5mm ²	Indoor units supply
18 (Cooling only)	/	3 x 1.5mm ²	3 x 1.5mm ²	Indoor units supply
24series (single-phase)	3 x 2.5mm ²	3 x 1.0mm ²	≥0.75mm ²	Outdoor and indoor units supply separately
36, 48, series (single-phase)	3 x 4.0mm ²	3 x 1.0mm ²		
36, 48 series (three-phase)	5 x 1.5mm ²	3 x 1.0mm ²		
60 series (single-phase)	3 x 6.0mm ²	3 x 1.0mm ²		
60 series (three-phase)	5 x 2.5mm ²	3 x 1.0mm ²		

Note: Above all models, the length of wire should be with in 6.3M, if the wire is longer, please corresponding increase wire cross-sectional area.



WARRANTY TERMS AND CONDITIONS

M/S.LLOYD ELECTRIC & ENGINEERING LTD., WARRANTS THIS **LLOYD** AIR CONDITIONERS (except front grill, knobs, remote unit & add-on plastic parts) TO THE ORIGINAL PURCHASER TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP WITHIN ONE YEAR FROM THE DATE OF PURCHASE AS PROVIDED IN THE WARRANTY REGISTRATION CARD :

LLOYD ELECTRIC & ENGINEERING LTD., HEREAFTER WARRANTS TO THE PURCHASER OF THIS **LLOYD** AIR CONDITIONERS THAT FOR A PERIOD OF SIXTY MONTHS FROM THE DATE OF INVOICE, WE WILL REPAIR/ REPLACE THE COMPRESSOR WHICH PROVES UPON INSPECTION BY US OR ANY OF OUR AUTHORISED SALES DEALERS TO HAVE BEEN DEFECTIVE DUE TO MANUFACTURING DEFECT.

This warranty is subject to terms and conditions as mentioned below:

1. This warranty shall be valid only for the said period of 12 months as specified above, irrespective of whether the said unit has been in use or not for any reason whatsoever , or the unit is moved from one location to another. Warranty does not cover accessories external to the equipment.
2. The warranty period specified above shall include time taken for repairs , replacements , breakdowns, transit time etc. No notice of expiry period of warranty will be given by the company.
3. This warranty shall stand automatically terminated in the event of the said unit being serviced, repaired, installed, de-installed, re-installed or otherwise attended to by any person or organization or agency or by the said purchaser himself other than the authorized representative of the company.
4. Parts of the unit replaced or repaired under the terms of this warranty are warranted only for the remaining period of the original warranty period.
5. For attending any service call under this warranty beyond the municipal limits of the locality in which the authorized representative/dealer is situated (outstation locations), all to and fro travelling and other incidental expenses as prevailing from time to time incurred in connection with the visit of the service personnel , technicians, etc shall be borne by the said purchaser and shall be payable in advance. Additionally, all expenses incurred by the authorized representative /dealer in collecting the said unit or any part thereof from such outstation locations and its return to the original location shall be borne by the said purchaser.
6. Any loss of refrigerant caused due to sabotage, improper handling or treatment , carelessness, accident, fire, flood earthquake or any natural calamity any corrosive action on the original refrigerant pipes, fittings, valves etc for whatever reasons , shall not be covered under this warranty.
7. In the event of any change in the location of the unit during the warranty period, this warranty shall become null and void unless the fact of the proposed change is communicated in writing to the authorized dealer at least seven (7) days prior to the said change. On receipt of such information the authorized dealer or any of its counterparts shall arrange for de-installation of the said unit on chargeable basis. However, in the event of any damage occurring to the unit or to any of its parts during the course of its transit by the said purchaser, repair or replacement , the said unit or any part thereof damaged shall not be covered by this warranty.



8. It shall be the absolute discretion of the company to a) effect the repairs or replacement of parts whether at the site of installation or at any service centre , and b) have the job attended to either by the Company's service personnel or its authorised dealer .
9. This warranty is in the nature of and for the purpose of set forth herein above and in particular the Company shall not in any event be liable for direct, indirect, incidental or consequential loss or damages to either the said purchaser and /or his property or any other third party.
10. The Air Conditioners is designed to operate at a range (230V +/- 10%). Any failure due to operation of the machine beyond these limits will not be covered by the above warranty.

Customer shall ensure that a stabilizer is installed in those areas where voltage is not available within the warranty range (230V +/- 10%) . The stabilizer should be of any reputed manufacturer, tested and recommended by the Company.

11. The purchaser should preserve the original invoice for necessary verification and produce , as and when required.
12. Warranty null and void if:
 - i. The Air Conditioners is not purchased from the authorized dealers of the company.
 - ii. The Service Centre copy of warranty card is not received within **7** days of date of purchase at the nearest Authorised Service Centre.
 - iii. Any damage is caused by accident , mishandling, tampering with installation, or negligence in following instructions of the user manual issued by Company.
 - iv. Any damage is caused by improper electrical circuit outside the unit or by any defective electrical supply .
 - v. At any time, during the warranty period if any part of the unit is tampered with , altered, repaired or serviced by any unauthorized person, not being the authorized representative of the company or its authorized dealers .
 - vi. The serial number of the unit or any part thereof is damaged , defaced, altered, obliterated , or tampered with or removal for any reason whatsoever .
 - viii. The unit is unauthorisedly moved from its original place of installation or re-installation.
13. None of the employees and /or Authorized Dealers of the Company have any authority whatsoever to vary the terms and conditions of this warranty.
14. This warranty shall be deemed to have been issued at **Delhi** , and courts at **Delhi** shall have exclusive jurisdiction on matters covered by or following from this warranty, and the original purchaser alone shall have cause of action arising out of the transaction.

LLOYD ELECTRIC & ENGINEERING LTD.
Warranty Registration Card



Serial No.

Customer Copy

Customer Details

Title: Mr ☐ Ms ☐ Mrs ☐ M/s ☐

Name:

Residence Address:

Dist: Pin:

State: Occupation:

Tel: () Res: () Fax:

Code Code Code

Mobile No: Email:

Product Details

Model No:

Serial No

Please Refer Sticker On Back Cover Of Your Product

Purchase Date

Day Month Year

Bill No.

Dealer's Name & Address

Signature

I Accept The Terms And Conditions of The Warranty

Customer Signature

Thank you for selecting a World Class product and we assure you that it will perform as per your expectations
We thank you for taking your time to complete this form. All Information Provided by You will be Kept Confidential.
(Please Fill In, Tear off, Fold and Mail this form to Reach us within 10 days of the Product Purchase.)

We welcome your Valuable Suggestions, if any, to Improve our Products and Services :

FOR OFFICE USE ONLY

Customer Code:

Branch:

Note: Company Will Not Be Responsible For The Loss Of This Form During Transit.

LLOYD ELECTRIC & ENGINEERING LTD.

LLOYD ELECTRIC & ENGINEERING LTD.

Warranty Registration Card



Serial No.

Service Centre Copy

Customer Details

Title: Mr Ms Mrs M/s

Name:

Residence Address:

Dist: Pin:

State: Occupation:

Tel: () Code Res: () Code Fax:

Mobile No: Email:

Product Details

Model No:

Serial No

Please Refer Sticker On Back Cover Of Your Product

Purchase Date Day Month Year

Bill No.

Dealer's Name & Address

Signature

I Accept The Terms And Conditions of The Warranty

Customer Signature

Thank you for selecting a World Class product and we assure you that it will perform as per your expectations

We thank you for taking your time to complete this form. All Information Provided by You will be Kept Confidential.

(Please Fill In, Tear off, Fold and Mail this form to Reach us within 10 days of the Product Purchase.)

We welcome your Valuable Suggestions, if any, to Improve our Products and Services :

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LLOYD ELECTRIC & ENGINEERING LTD.



LIVE THE FUTURE

LLOYD ELECTRIC & ENGINEERING LIMITED

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Email: perfectservice@lloydmail.com

Customer Care Toll Free No.

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Maharashtra, Chattisgarh, Goa: 1800-1024-212 | South India: 1800-1200-666 | Rest of India: 1800-1020-666