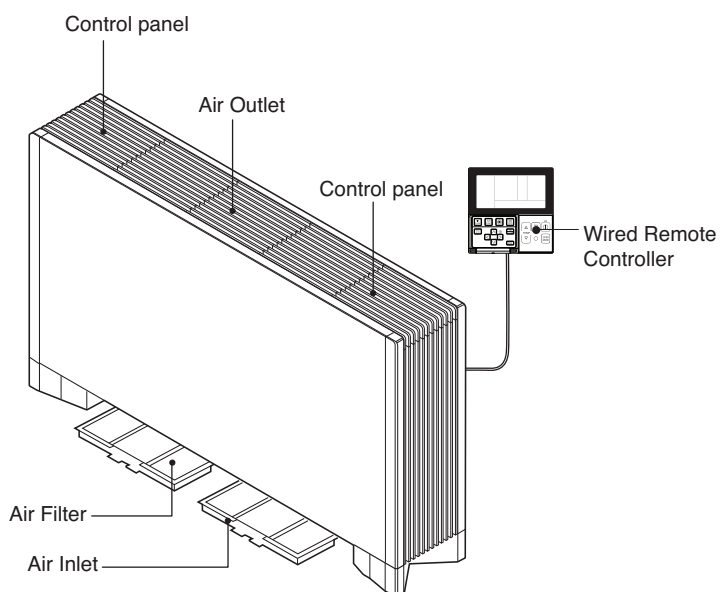


10. Installation

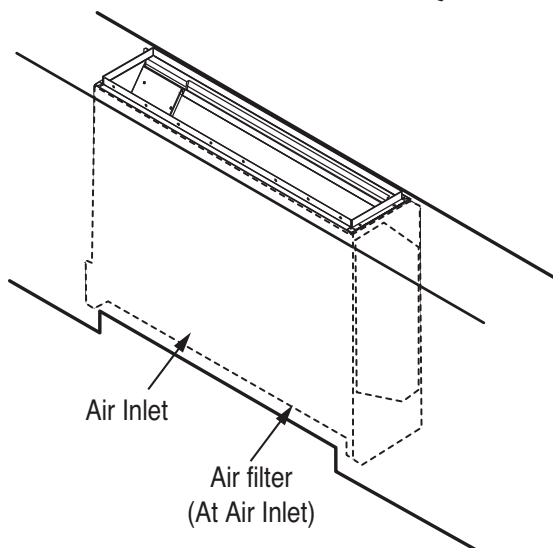
- Please read this instruction sheet completely before installing the product.
- When the power cord is damaged, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.

10.1 Features

[CEA/CFA Type]



[CEU/CFU Type]



10. Installation

10.2 Selection of the best location

Indoor unit

Install the air conditioner in the location that satisfies the following conditions.

- The place shall easily bear a load exceeding four times the indoor unit's weight.
- Sufficient space should be available to inspect the unit as in the figure shown on the right.
- The place where the unit is installed shall be leveled.
- The place shall be suitable for easy connection of the indoor unit with the outdoor unit.
- The place where the unit is installed should not be affected by electrical noise.
- The place where air circulation in the room will be good .
- There should not be any heat source or steam near the unit

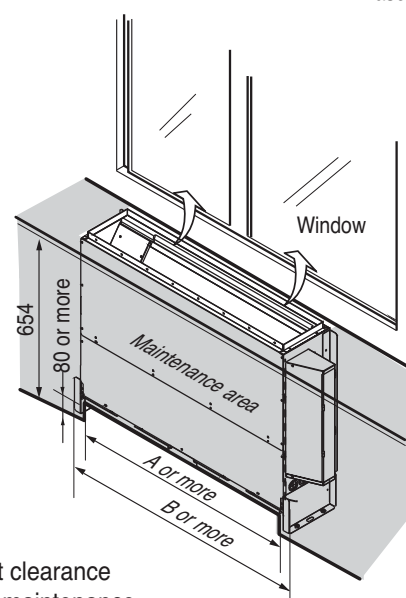
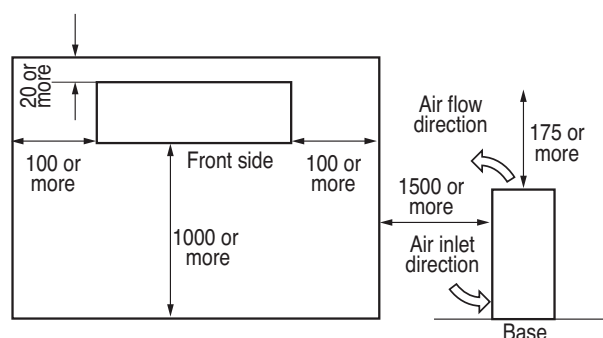
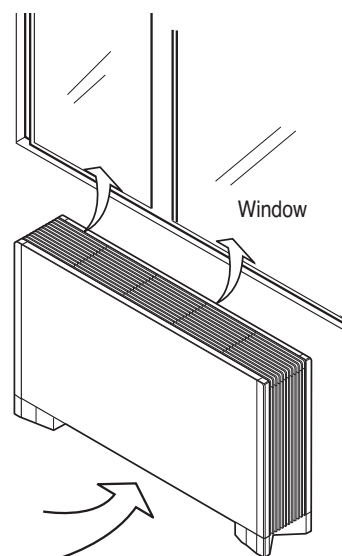
Service space

Select an installation site where the following conditions are satisfied and that meets your customer's approval.

- Where the floor is strong enough to bear the indoor unit weight.
- Where the floor is not significantly inclined.
- Where nothing blocks the air passage.
- Where condensate can be properly drained.
- Where sufficient clearance for installation and maintenance can be ensured.
- Where there is no possibility of flammable gas leakage.
- Where optimum air distribution can be ensured.
- Where piping between indoor and outdoor units is possible within the allowable limit (Refer to the installation manual of the outdoor unit.)
- Keep the indoor and outdoor unit, power cable and transmission wiring, at least 1m from TVs and radios, to prevent distorted pictures and static.(Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)

(Unit: mm)

Type	A	B
CEU Type	788	1080
CFU Type	1066	1358



[IMPORTANT]
Leave sufficient clearance
for air inlet and maintenance.

10. Installation

Bolt pitch

- Positioning of holes for fastening to the wall

(Unit:mm)

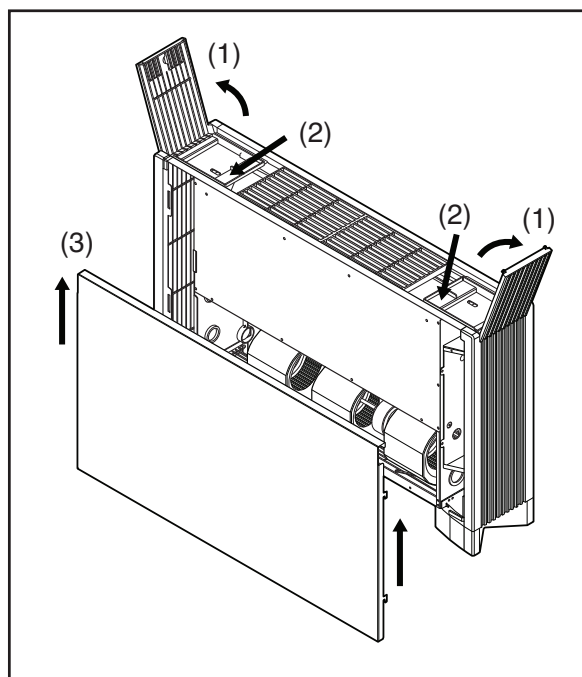
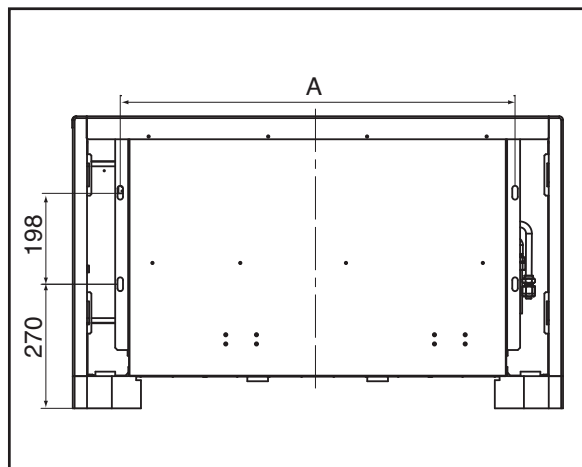
Type	A
CEA, CEU	858
CFA, CFU	1136

1. Use the Installation mount for installation. Check whether the wall is strong enough to bear the weight of the unit or not. if there is a risk, reinforce the wall before installing the unit.
2. The unit requires a minimum 100 mm clearance below the unit for air intake. Also, ensure the unit is leveled when installed so that drainage flows smoothly. If inclined, water can leak.
3. Depending upon the shape and nature of the wall surface, operating sound may become bigger.

How to open/close front panel

• How to open/close the front panel

- (1) Open the lid of control panel(Both left and right)
- (2) Remove screws(Both left and right)
- (3) Lift the front panel of the unit
 - To close, perform the procedure in opposite order.



10. Installation

10.3 Drain piping work

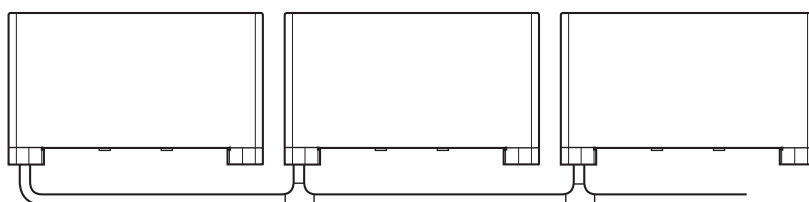
- Drain piping must have downward slope($1/50$ to $1/100$): be sure not to provide up-and-down slope to prevent reverse flow.
- During drain piping connection, be careful not to exert extra force on the drain port on the indoor unit.
- The outside diameter of the drain connection to the indoor unit is 21mm.

Piping material: Polyvinyl chloride pipe 25mm and pipe fittings

- Be sure to install heat insulation on the drain piping

Heat insulation material: Polyethylene foam with thickness more than 10 mm.

- If converging multiple drain pipes, install according to the procedure shown below.

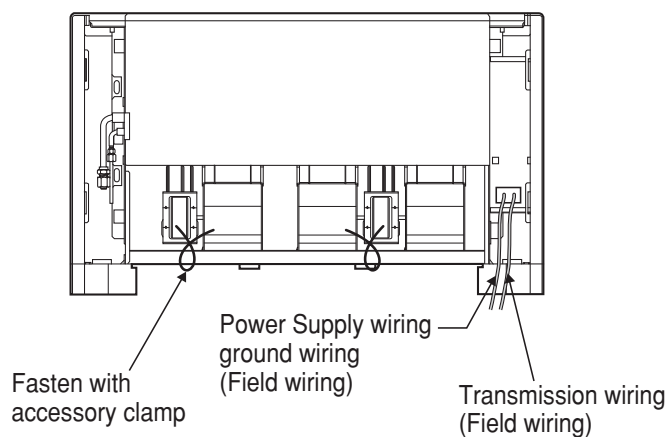


Slope downwards at a gradient of at least $1/100$

- After piping work is finished, check for drainage.
- Be sure to insulate all indoor units.

10.4 How to connect wirings

Remove the electric parts Box cover and connect the wiring

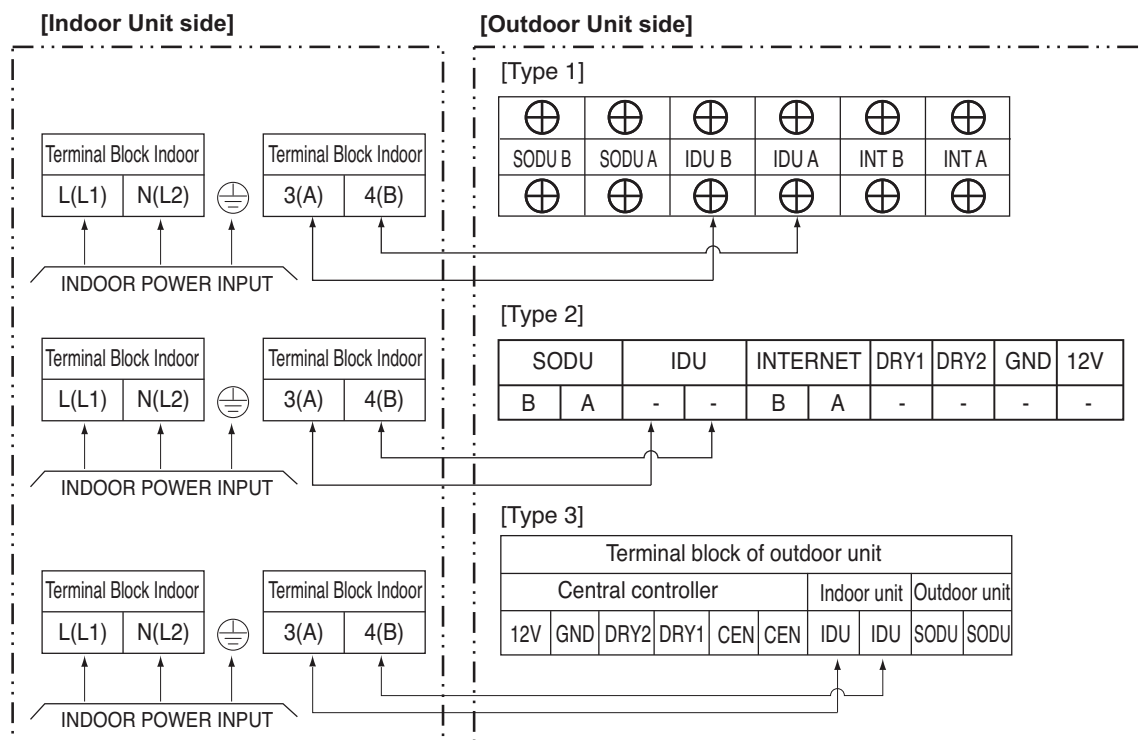


10. Installation

10.5 Wiring Connection

Connect the wires to the terminals on the control board individually according to the outdoor unit connection.

- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.



WARNING : Make sure that the screws of the terminal are free from looseness.



CAUTION:

After the confirmation of the above conditions, prepare the wiring as follows:

- 1) Never fail to have a separate power circuit specifically for the air conditioner. As for the method of wiring, follow the circuit diagram posted on the inside of control cover.
- 2) The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could cause burn-out of the wires.)
- 3) Specification of power source.
- 4) Confirm that electrical capacity is sufficient.
- 5) See to that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- 6) Confirm that the cable thickness is as specified in the power source specification. (Particularly note the relation between cable length and thickness.)
- 7) In a wet or moist area, always install an earth leakage circuit breaker.
- 8) The following would be caused by voltage drop.
 - Vibration of a magnetic switch, which will damage the contact point, fuse breaking, disturbance of the normal function of the overload.
- 9) The means for disconnection from a power supply shall be incorporated in the fixed wiring and have an air gap contact separation of at least 3mm in each active(phase) conductor.

10. Installations

WIRED REMOTE CONTROLLER INSTALLATION

- Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature. Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.

Do not install the remote controller where it can be affected by:

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly as shown in Fig.1.
(The standard height is 1.2~1.5 m from floor level.)

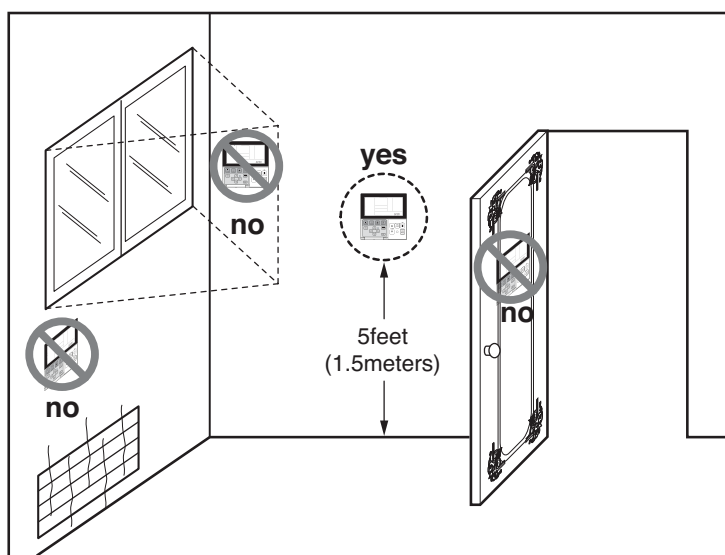
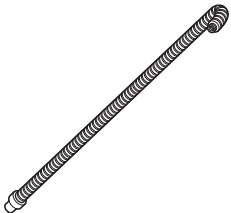
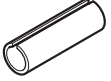
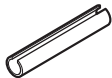
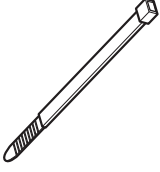


Fig.1 Typical locations for remote controller

11. Accessories

Standard Accessories

Name	Dran hose	Level adjustment screw	Insulation for fitting	Clamp (Tie Wrap)	[Other] • Operation manual • Installation manual
Quantity	1 EA	4	1 each.	8 pcs.	
Shape			(1) For gas pipe  (2) For liquid pipe 		

CAUTION

- Use only those accessories (Standard or optional) which have designated specifications.