

LOSSNAY HEAT RECOVERY VENTILATOR SYSTEM COMPONENT RC COVER

MODEL

P-RCC-E

Installation Manual

Applicable models

 VL-250CZPVU-R-E / VL-250CZPVU-L-E
 VL-350CZPVU-R-E / VL-350CZPVU-L-E

For use by dealers/contractors

- This product is for residential use.
- This RC COVER is used to cover the space when the remote controller is removed from the Lossnay unit. Do not use this product for any other purpose. Doing so may cause malfunction.
- Proper installation is necessary for the product to perform at full potential and to ensure safety. Before installation, be sure to read this manual.
- Make sure to use accessory parts/designated parts for the installation parts. Using parts other than our designated parts may cause malfunction.
- Installation must be performed by dealers and electrical contractors. Incorrect installation can lead to malfunctions and accidents. Installation by the customer can lead to malfunctions and accidents.
- Electrical work must be done by a qualified and licensed electrician employed by the dealer or contractor.

After completing the installation, make sure to give this manual to the customer.

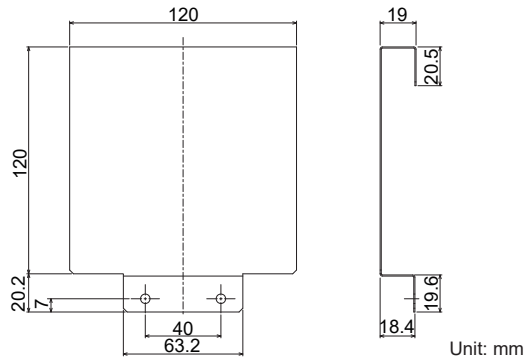
1. Safety precautions

Hazards created by mishandling and their severity are indicated by the following markers.

 WARNING		This applies to mishandling or misoperation of the product which may lead to a fatal or serious injury.	
 Prohibited	Do not install the product in excessively hot areas, near open flames, in areas prone to oily smoke, or where it could come in contact with organic solvents. Fire could result.	 Follow instructions	Use designated electric wires and connect them securely so they do not come out. Poor connections could result in fire. Make sure to turn the unit power before installation. During electrical work, make sure to turn off the circuit breaker. Electric shock or injury could result. Be sure to shut off the circuit breaker if the Lossnay will not be used for a long period after installation. Electric shock from deteriorated insulation or fire from a short circuit could result. Electrical work must be done by an electrical contractor (a licensed electrician in accordance with the technical standards of the equipment and internal wiring provisions to ensure safety. Poor connection or improper electric work may result in electric shock and/or fire.
 Do not expose to water	Do not let the remote controller get wet. Short circuit or electric shock could result.		
 Do not disassemble	Do not disassemble the product more than necessary or modify it. Fire, electric shock or injury could result.		
 Do not install in bathroom	Do not install the remote controller in a bathroom or other highly humid location. Electric shock or short circuit could result.		

 CAUTION		This applies to mishandling or misoperation of the product, which will lead to an injury or damage to your home, household effects, etc.	
 Follow instructions	Wear gloves during installation. Injury could result. Securely install parts so that there are no twists and deformations. Injury could result if the product falls. Do not give impact by dropping/throwing the product during installation. Air/water leakage could result due to damage inside the product structure. Securely install parts. Injury could result if the product falls. Do not inspect, install or remove the product and parts under unstable conditions. Injury could result from falling over.	 Follow instructions	Select a sufficiently strong location and install the remote controller securely. Injury could result if the product falls. Make sure to use accessory parts/designated parts for the installation parts. Using parts other than our designated parts could result in malfunctions and accidents. This appliance is not intended for use by persons (including children) with reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. (This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.)

2. Outside dimensions



Accessories

Wood screw (4.1 X 16): 2 	Roundhead cross slot screw (M4 X 30): 2 
Cable with noise filter: 1 (Cable length outside the product: Approximately 820 mm) 	Terminal protective cap: 1 

3. Field-supplied parts/Required tools

(1) Field-supplied parts

The following parts are field-supplied parts.

Parts name	Notes
Double switch box	Not required for direct wall installation
Thin metal conduit	
Lock nut and bushing	
Cable cover	Required for routing remote controller cable along a wall.
Putty	
Molly anchor	
Remote controller cable (Use a 0.3 mm ² (AWG22) 2-core sheathed cable.)	Total wiring length is up to 200 m.

(2) Field-supplied tools

- Flat-tip screwdriver (Width: 4-7 mm (5/32-9/32 inch))
- Knife or Nipper
- Miscellaneous tools

4. Selecting an installation site

This remote controller is for the wall installation. It can be installed either in the switch box or directly on the wall. When performing direct wall installation, wires can be thread through either back or top of the remote controller.

(1) Selecting an installation site

To prevent injury, install the controller on a flat surface strong enough to support its weight.

Important

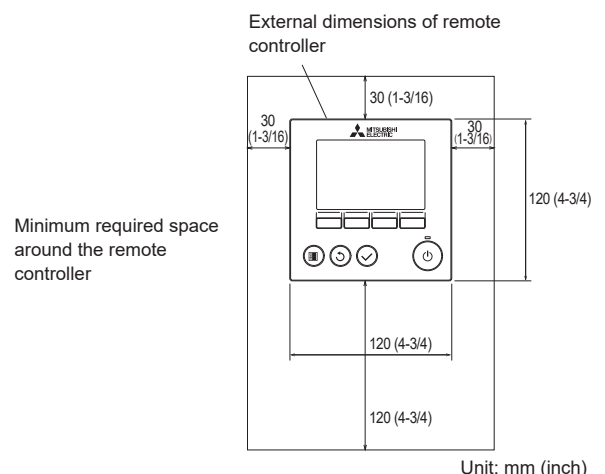
To reduce the risk of shorting, current leakage, electric shock, malfunctions, smoke, or fire, do not install the controller in a place exposed to water or in a condensing environment.

To avoid deformation and malfunction, do not install the remote controller in direct sunlight or where the ambient temperature may exceed 40°C (104°F) or drop below 0°C (32°F).

To reduce the risk of malfunctions and damage to the controller, avoid installing the remote controller on an electrically conductive surface, such as an unpainted metal sheet.

(2) Installation space

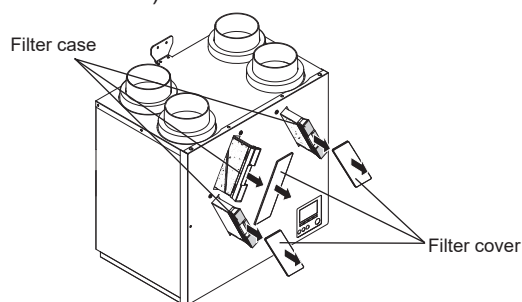
Leave a space around the remote controller as shown in the figure at right, regardless of whether the controller is installed in the switch box or directly on the wall. Removing the remote controller will not be easy with insufficient space. Also, leave an operating space in front of the remote controller.



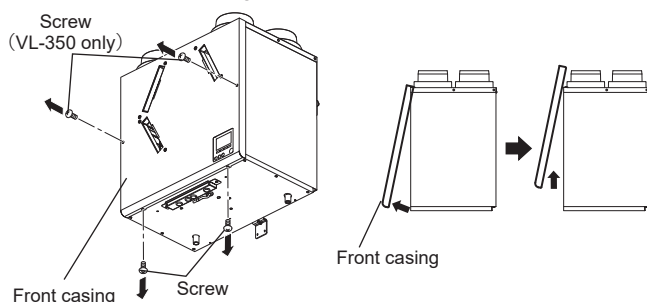
5. Installation method *The illustrations show VL-350CZPVU-R-E.

Remove the front casing.

- 1) Remove the filter cover and the filter case towards your side (three locations).

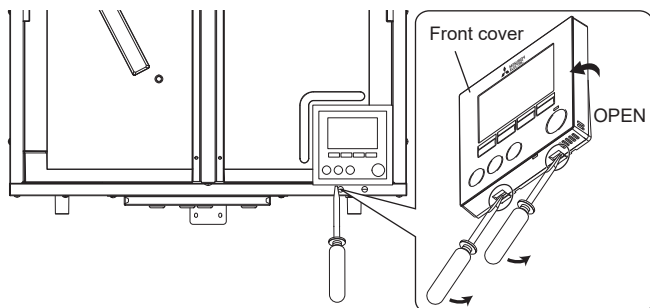


- 2) Remove the screws from the front casing (VL-350: four locations, VL-250: two locations). Remove the front casing.



Removing the remote controller.

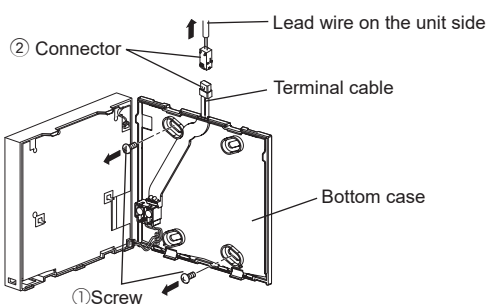
- 1) Remove the front cover of the remote controller. Insert a flat-tip screwdriver (blade width: 5 mm) into the latches at the bottom of the remote controller, and move it in the direction of the arrow as shown. Remove the front cover by pulling it towards you as the latches will be unhooked.



Note:

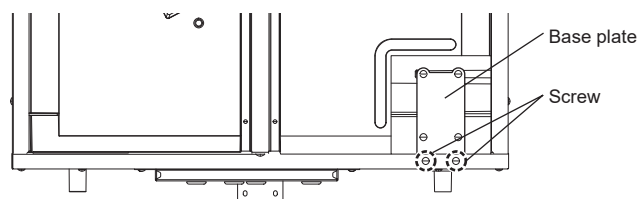
- Do not insert the flat head screwdriver forcefully. (Damage on the circuit board could result.)
- Do not turn the flat head screwdriver forcefully while it is inserted into the latch. (Damage on the case could result.)

- 2) Remove the remote controller from the unit.
 - ① Remove the screws attaching the bottom case and the unit (two locations).
 - ② Remove the connector of the terminal cable from the connector of the lead wire on the unit side.
 - Leave the removed connector of the lead wire on the unit side.
 - ③ Remove the remote controller from the unit.

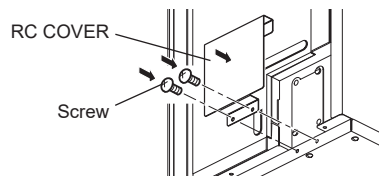


Attach the RC COVER.

- 1) Remove the two screws from the base plate.



- 2) Attach the RC COVER with the screws removed in 1).



Reassembly and checks after installation



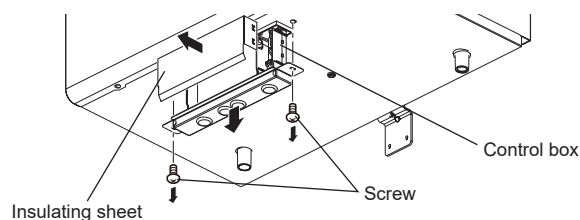
Securely install parts.

Injuries could result if the unit falls.

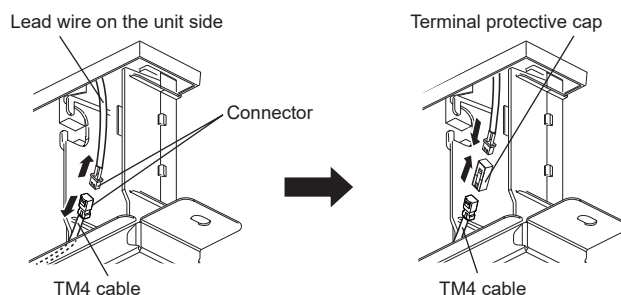
1. Attach the front case.
2. Attach the filter case and the filter cover on the unit.

Install the cable with noise filter.

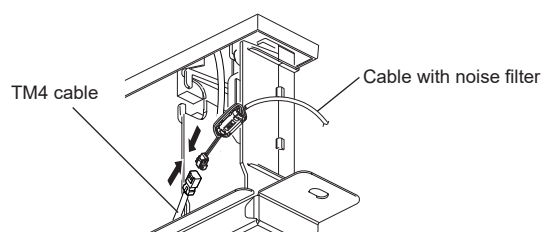
- 1) Remove the two screws from the control box and pull it out. Remove the insulating sheet from the control box.



- 2) Detach the connectors of the TM4 cable and the lead wire on the unit side. Attach the accessory terminal protective cap on the connector of the lead wire on the unit side.



- 3) Connect the connector of the accessory cable with noise filter to the TM4 cable.

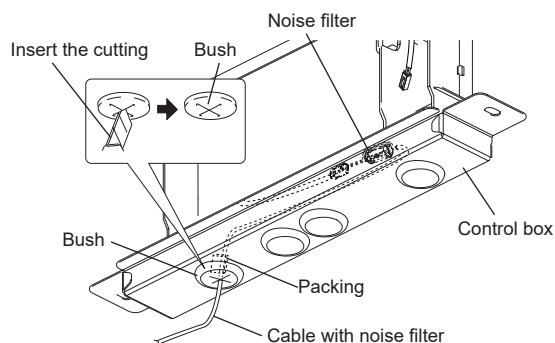


5. Installation method (Continued)

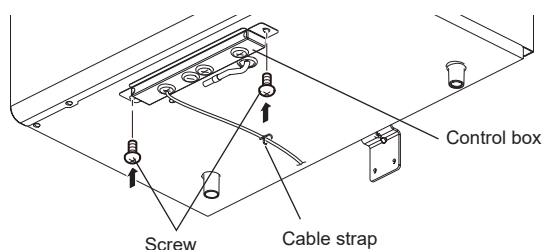
- 4) Store the cable with noise filter along with the side face of the control box as shown and pass the cable through the code bush.

Note:

- Do not pass the cable with noise filter through bushes other than the bush shown below.
- Place the noise filter in the gap with the circuit board of the controller box.
- Pull out the cable with noise filter until the packing touches the bush.

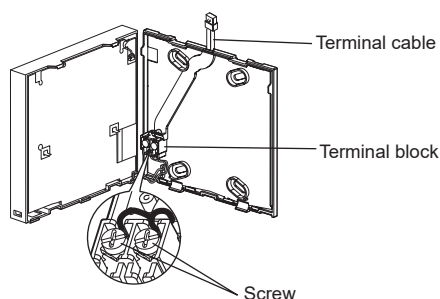


- 5) Install the insulating sheet on the control box. Insert the control box to the unit, attach two screws. (Don't forget to place the insulating sheet) Bind the cable with noise filter with a cable strap (supplied with the unit) and attach it under the unit. (It is recommended to install it with flexibility so that it will not be loaded from the outside.)

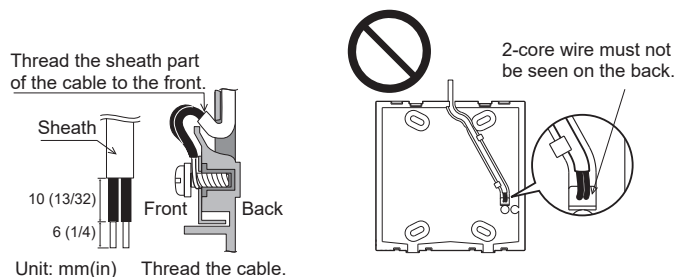


Install the remote controller.

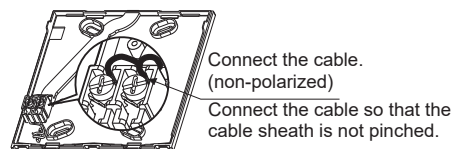
- 1) Loosen the two screws from the terminal block and remove the terminal cable from the bottom case.



- 2) Connect the remote controller cable (field supplied) to the terminal block on the bottom case. Peel off 6 mm of the remote controller cable sheath as shown in the figure below, and thread the cable from behind the bottom case. Thread the cable to the front of the bottom case so that the peeled part of the cable cannot be seen behind the bottom case. Connect the remote controller cable to the terminal block on the bottom case.

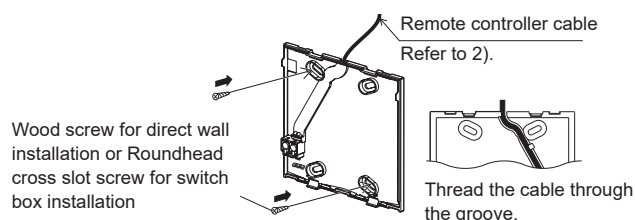


Unit: mm(in) Thread the cable.



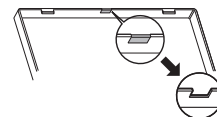
- 3) Install the bottom case.

- Thread the cable through the groove.
- Secure at least two corners of the remote controller with screws.
- Be sure to secure top-left and bottom-right corners of the remote controller (viewed from the front) to prevent it from lifting. (Use molly anchor etc.).



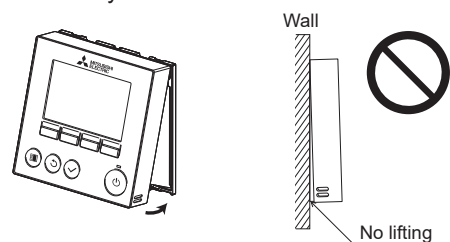
- 4) Cut out the cable access hole.

- Direct wall installation (when running the cable along the wall)
 - Cut out the thin-wall part on the cover (indicated with the shaded area in the right figure) with a knife or a nipper.
 - Thread the cable from the groove behind the bottom case through this access hole.

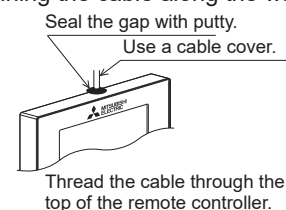


- 5) Install the front cover on the bottom case.

Hook the two tabs onto the bottom case. Check that the front cover is securely installed and not lifted.



- Direct wall installation (when running the cable along the wall)
 - Thread the cable through the access hole at the top of the remote controller.
 - Seal the cut-out part of the cover with putty.
 - Use a cable cover.



- 6) Wire the cable with noise filter and the remote controller cable.