



# MITSUBISHI ELECTRIC LOSSNAY ENERGY RECOVERY VENTILATOR MODEL VL-100ZSKRT-E (Remote Controller Model)

# **Installation Manual**

# **For Dealers and Contractors**

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■ This product is for household use only. Do not use it for any other purposes. Doing so may cause malfunction.

- Correct installation is essential to achieve full performance and functionality of this product and to ensure safety. Carefully read this installation manual before installation and install the product correctly and safely.
- Installation should be performed by a dealer or contractor. (Do not allow the customer to install the product)
- Electrical work should be performed by a qualified electrical worker of the dealer or contractor.

The separate Operating Instructions is for the customer. Be sure to hand it over to the customer.

# Safety precautions

The following symbols indicate the degree of danger caused by incorrect handling of the product.



Incorrect handling may result in death or serious injury.

Caution

in minor injury or physical damage to the house or household goods. Symbols used in the text and on the main unit have the following meanings.



\land Warning					
Prohibited	Do not install in a place where will be exposed to high temperatures, naked flames, heavy oil smoke, or organic solvents. Doing so may cause fire.				
Do not disassemble	<b>Do not modify or disassemble unless absolutely necessary.</b> Doing so may cause fire, electric shock, or injury.				
Do not wet	<b>Do not immerse in water or spray with water.</b> Doing so may cause fire or electric shock.				
Do not install in bathroom	Do not install the main unit and wall switch in a place with high humidity such as in a bathroom. Doing so may cause electric shock or leakage.				
Be sure to ground	Securely connect the ground wire. An electric shock may occur in the event of failure or electric leakage.				
	<b>Use the specified voltage.</b> Failure to do so may cause fire or electric shock.				
	Install the air intake duct in a place where no exhaust or combustion gases will be sucked in and the duct will not be buried under snow. Fresh air may not be taken in and the room may run out of oxygen. Gas may flow back.				
	Securely install the main unit, ceiling suspension fixture, and joists in a location that has sufficient strength. They may fall and cause injury.				
Follow instructions	Use the specified cables and connect them securely so they will not detach. Incorrect connection may cause fire.				
	Electrical work should be performed by a professional electrical contractor (electrical worker) safely and properly according to the electrical equipment technical standards and the internal wiring regulations.				
	Connection errors and incorrect electrical work may cause electric shock or fire. Install an all-pole power supply isolator (Secure at least 3 mm between contact points) at the power supply side as per local electrical regulations. All supply circuits must be disconnected before obtaining access to the terminal devices. Use the specified cable size and connect the cables securely to prevent disconnection when they are pulled. If there is a defect in the connection, there is a possibility of fire.				

	When passing metal ducts through wooden buildings clad with metal laths, wire laths,				
	or metal sheets, these ducts must be installed in such a way that they will not make				
	electrical contact with the metal laths, wire laths, or metal sheets.				
	Electric leakage may cause fire.				
	The duct pipes must be fixed with commercially available fixing bands or aluminum				
	tape and the outdoor ducts must be tilted at an angle of 1/30 or more down toward the				
Follow instructions	outdoor area from the unit (to prevent entry of rain water and snow).				
	The entry of rain water may cause electric shock, fire, or damage to household goods.				
	When not using the unit for a long period of time after installation, be sure to turn off the				
	power supply isolator.				
	Insulation deterioration may cause electric shock or fire due to an electrical fault.				
	Be sure to install the terminal block cover after electrical work.				
	The entry of dust, humidity, etc. may cause electric leakage or fire.				

	▲ Caution
$\bigcirc$	This unit is for ceiling installation only. Do not install it on a wall.
	It may fall and cause injury.
Prohibited	
	Wear gloves during installation.
	Failure to do so may cause injury.
	Install the duct pipes tilted at an angle of 1/30 or more down toward the outdoor area.
	The entry of rain water may cause electric shock, fire, damage to household goods, etc.
	Install the product at a tilt angle of 1° or less.
	<ul> <li>Failure to do so may reduce the remote controller transmission range.</li> </ul>
	· Failure to do so may cause product failure.
Follow	· Failure to do so may change the weight balance, resulting in falling.
instructions	If the air supply and exhaust hole on the wall is exposed to rain water, attach a hood
	(special system part).
	The entry of rain water may cause electric shock, fire, damage to household goods, etc.
	Do not install the unit in areas and locations where the following operating conditions are
	exceeded.
	Outside air temperature: 0 to 40 °C
	Temperature and humidity of area around the main unit and return air: 0 to 40 °C, relative
	humidity: 80 % or less

### Note

- Since Lossnay takes in outside air into the room, outside air smells (e.g., exhaust gas smell) may also be taken in. Be careful about the installation location.
- Do not use the unit in a place where damage from salt or hot springs may occur.
- Do not install the unit in a place exposed to strong light such as direct sunlight. Doing so may cause a malfunction of the remote controller.
- Install the main unit in a place where no obstacle exists between the main unit and remote controller operation position.
- If multiple units are mounted, they may operate simultaneously with the remote controller.

# Unpacking



Light receiving unit

Main unit flange surface

The light receiving unit protrudes from the main unit flange surface. Make sure that no load is applied to the light receiving unit.

Damage may result if a load is applied to the light receiving unit.

# **Outline drawings**



# Installation examples

#### When suspending the unit with suspension bolts



#### When installing the unit on joists



# 1. Insert the supplied lithium battery (CR2025) into the remote controller.

- ① Insert a pen tip, etc. into the hole on the back of the remote controller, and slide it in the arrow direction.
- 2 Draw out the holder.
- ③ Place the lithium battery in the holder with the plus sign (+) facing upward.
- ④ Push the holder in firmly with the lithium battery in it.



### Note

- Be sure to place the battery in the holder before inserting the holder.
- Do not insert a battery other than specified.
- To prevent small children from accidentally swallowing the battery, the holder is not easily detached.
- Do not apply a strong impact to the remote controller or drop it.
- Do not place anything on the remote controller or step on it.

# 2. Install the remote controller holder

Secure the remote controller holder with the supplied remote controller holder mounting screws. - We do not recommend that you operate the unit with the remote controller placed in the remote controller holder, since the reception sensitivity decreases.

- If you wish to operate the unit with the remote controller placed in the remote controller holder, check the range where you can operate the unit with the remote controller and then install the remote controller holder.



### <Remote controller operation range>



### Note

- The remote controller operation range above shows the case where you operate the unit with the remote controller pointed toward the light receiver of the main unit.
- It may not be possible to use the remote controller in the following locations:
  - Location where an obstacle exists between the main unit light receiver and remote controller
  - Location where exposed to strong light from inverter lighting equipment
  - Location where strong light such as direct sunlight shines on the main unit light receiver
  - Location where exposed to electromagnetic radiation, such as near a television

# Installation method

Installation procedure (example)	
When suspending the unit with suspension bolts	When installing the unit on joists
<when attaching="" ceiling="" later="" material="" on=""></when>	<pre><when attaching="" ceiling="" later="" material="" on=""></when></pre>
1 Installation positioning	1 Installation positioning
↓	↓
2 Insert the suspension bolts	2 Duct work
↓ 3 Duct work	• 3 Assemble the joists
	•
4 Suspend the main unit	4 Install the main unit
↓ 5 Electrical work	↓ 5 Electrical work
6 Install the celling material	• Instantine cening material
7 Attach the panel	7 Attach the panel
↓ 8 Light receiver height adjustment	• ↓ • 8 Light receiver height adjustment
When attaching ceiling material beforehand>	When attaching ceiling material beforehand>
1 Installation positioning	Installation positioning
↓ 2 Duct work	2 Duct work
↓	↓
3 Install the ceiling material	3 Assemble the joists
4 Insort the suspension bolts	Install the colling material
4 insert the suspension boits	
5 Suspend the ceiling suspension fixture	5 Install the main unit
↓	↓
6 Connect the ducts	6 Electrical work
↓ 7 Fiv the main unit	7 Attach the papel
	Allach the panel
↓	
8 Electrical work	<ul> <li>* It is convenient for inspection if an inspection</li> <li>opening is provided in the ceiling.</li> </ul>
8 Electrical work ↓	<ul> <li>* It is convenient for inspection if an inspection opening is provided in the ceiling.</li> </ul>

# When suspending the unit with suspension bolts

<When attaching ceiling material later on>

This construction method is for attaching ceiling material after the main unit is installed

### 1 Installation positioning

# Determine the installation position and the wall hole position.



### Note

- Install the product at a position at least 2,300 mm above the floor surface that allows for maintenance.

### 2 Insert the suspension bolts

#### Insert commercially available suspension bolts (M8 or M10) in accordance with the dimensions shown in the figure below.

- Insert the suspension bolts straight so that they do not shift out of place.

### Suspension bolt insertion position drawing



### B Duct work

Install the duct pipes from the air supply/ exhaust hole on the wall to the duct connecting hole positions on the main unit.

# **A** Caution

- Install the duct pipes tilted at an angle of 1/30 or more down toward the outdoor area.
  - The entry of rain water may cause electric shock, fire, damage to household goods, etc.



### Note

- Attach an outdoor hood, etc. to the end of the air supply/exhaust ducts to prevent entry of rain water, etc.
- Conduct duct work in such a way that the supply air and exhaust air are not mixed with each other.
- Attach the outdoor hoods in such a way that there is a distance of 300 mm or more between the center of one hood and that of the other hood.
- We recommend to provide an electric shutter at a point part way along the air supply and exhaust ducts in areas with strong wind to prevent the entry of the wind from outside when the operation is stopped.
- Install the air intake duct on the outdoor side in a position where fresh air can be taken in.
- For ducts, we recommend use of materials that can be extended, contracted and bent. (This is to make connection to the main unit easier.)
- Avoid duct work as follows. (Such work may decrease the air volume or generate an abnormal noise).

Bent extremely

Multiple bends





Bent near the exhaust air outlet

Crushed





# 4 Suspend the main unit

1. Remove the terminal block cover. (for routing the power supply/transmission cables)



## Note

- Do not lose the removed terminal block cover or screws.

### 2. Attach the ceiling suspension fixtures.

 Attach the 4 ceiling suspension fixtures to the main unit using the 10 self-drilling screws. (8 vertical and 2 horizontal screws) (Referring to the "Ceiling suspension fixture installation position figure" in the outline drawings, attach ceiling suspension fixtures A and B.)



### Note

- Do not use an electric screwdriver. Tighten the screws by hand.
- Use a tightening torque of 1.8 Nm or less.

### 3. Suspend the main unit

- (1) Pass the suspension bolts through the ceiling suspension fixtures.
- (2) Secure with the supplied rubber cushions, washers and commercially available nuts so that

the main unit is flat.

Suspension bolt

(M8 or M10, commercially available) Ceiling suspension fixture (part supplied) / Nut (commercially available)



## Note

 Secure the main unit so that the bottom surface of the flange on the main unit is within 15 mm of the ceiling material bottom surface at the top surface of the flange. (3) Pass the power supply/transmission cables through the access hole on the main unit.

### 4. Connect the ducts

- (1) Insert the air supply/exhaust ducts into the duct connecting flanges.
- (2) Stick the tape (commercially available) on the gaps between the duct connecting flanges and the ducts.
- (3) Heat insulate the air supply/exhaust ducts and duct connecting flanges.



## 5 Electrical work

# 🕂 Warning

- Use the specified voltage.
  - Failure to do so may cause fire or electric shock.
- Use the specified cables and connect them securely so they will not detach.

- Incorrect connection may cause fire.

- Electrical work should be performed by a professional electrical contractor (electrical worker) safely and properly according to the electrical equipment technical standards and the internal wiring regulations.
  - Connection errors and incorrect electrical work may cause electric shock or fire.

### 1. Connect the wires

Refer to the wiring diagram and connect the wires to the terminal block.

(Applicable wire diameter: 1.6 to 2.0 mm) (Stripped wire length: 10 mm)

### Wiring diagram

Connect the wires shown as bold lines. Use a single wire to connect to TERMINAL.





220 to 240 VAC ~ 50 Hz

Power supply/transmission cables



### Note

- Securely insert a stranded wire into the terminal block by attaching a commercially available rod type crimp terminal (with a diameter of 1.6 to 2.0 mm) to the stranded wire.
- Be sure to connect the grounding wire by securing it to the grounding screw on the terminal block.

### 2. Fix the power supply/transmission cables

Fix them with a cord band.



## Note

- Fix them so that no tensional force is applied to the terminal block. (A contact failure may occur)
- 3. Reattach the terminal block cover



# 6 Install the ceiling material

# Be sure to leave a 2 to 3 mm gap between the main unit flange and the ceiling material.

- Otherwise, the main unit can no longer be removed and installed.



## 7 Attach the panel

### 1. Remove the panel and the partition plate.

- (1) Press <u>PUSH</u> (2 locations) on the panel with your fingers.
- (2) Open the panel.
- (3) Push the panel down.
- (4) Move it toward the panel frame and remove it from the shaft.
- (5) Pull it out upward.
- (6) Take out the partition plate.



### 2. Cut the partition plate

(1) Measure the distance from the ceiling surface to the main unit flange surface.



(2) Refer to the table below and cut the thin section of the partition plate with a cutter, etc.

Distance from the ceiling surface to the main unit flange surface					
	1 mm to 5 mm to		10 mm to		
0 mm	less than 5	less than 10	less than 15		
	mm	mm	mm		
Partition plate is not used	Cut in C	Cut in B	Cut in A		



(3) Attach the partition plate to the panel frame.

### 3. Attach the panel frame

- (1) Preliminary tighten the 4 supplied panel frame mounting screws on the main unit.
- (2) Fit the slotted holes of the panel piece onto the preliminarily tightened mounting screws in the 4 locations.

### Note

- The panel frame has a mounting direction. Align the panel pieces in the 4 locations with the mounting screws.
- (3) Push up the panel frame and secure it with the screws.
  - \* Since a gap is provided between the panel frame and the ceiling, they do not contact each other.



### 4. Attach the panel

- (1) Attach the panel by performing the procedure for removing the panel in reverse.
  - Hook the panel onto the shaft of the panel frame.
- (2) Attach a fall prevention wire.
  - Remove the fall prevention wire fixing screw located on the main unit terminal block cover. Secure the fall prevention wire to the terminal block cover with a fall prevention fixing screw.
  - Secure the fall prevention wire in the direction shown in the figure.

#### Note

- Make sure that the wire does not protrude from the panel and the wire does not get caught when attaching the panel.
- (3) Press **PUSH** in 2 locations with your fingers and close the panel.



### 8 Light receiver height adjustment

The difference in level between the panel and the light receiver differs according to the thickness of the ceiling materials. The difference in level between the panel and the light receiver must be adjusted within the range +2.5 to -1.5 mm to ensure the required light reception range.

<When the light receiver has fallen in from the panel>



<When the light receiver is protruding from the panel>



# 1. Check the difference in level between the panel and the light receiver.

In the table below, check the thickness of applicable ceiling materials, the necessity to adjust the light receiver height with respect to this thickness, and the quantity of packaged parts used.

# <When suspending the unit with suspension bolts>



### <When installing the unit on joists>

		Packaged parts																																																	
Ceiling material thickness	Light receiver height	U-washer		Light receiver height adjustment spacer	Replacement light receiver fixing screws																																														
(mm)	adjustment				Omm																																														
1																																																			
2	Not required	Not required																																																	
3																																																			
4			1 used	Not required	Replacement																																														
5		a	2 used	Notrequired	not required																																														
6		Ő	Ø	Ø	Ø	Q	Q	Ø	Ø	Ø	Q	Q	Q	Q	Ø	Ø	Q	Ø	Ø	Ø	Ø	Ø	Q	Ø	Q	Q	Ŷ	Ŷ	Ø	Ø	Ø	Ø	Ø	Ŷ	Ø	Ø	Ø	Ø	Ø	Ŷ	Ø	Ø	Ø	Ø	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$	$\langle \rangle$	3 used		
7																																													4 used						
8																																															5 used				
9	Boguirod																																																		
10	Required	Not required																																																	
11						Omm																																													
12			1 used	Used	Replacement																																														
13		SB)	2 used	- CSeu	required																																														
14			3 used																																																
15			4 used																																																

#### 2. Adjust the height of the light receiver. <When using the light receiver height adjustment spacers>

- (1) Open the panel
- (2) Remove the 2 light receiver fixing screws, and remove the light receiver.



### Note

- Make sure that the removed screws do not get lost.
- (3) Install the 2 supplied light receiver height adjustment spacers and the required number of supplied U-washers with the 2 supplied replacement light receiver fixing screws.



## Note

- When using the light receiver height adjustment spacers, be sure to attach as a set with the replacement light receiver fixing screws.
- Do not use an electric screwdriver. Tighten the screws by hand.
- The number of U-washers used shall be no more than 4 per location. (The light receiver fixing screws cannot be tightened if 5 or more U-washers are used)
- To insert the U-washers from the side of the light receiver fixing screws, slide the U-washers all the way onto the screw until they click.
- Use U-washers so that the light receiver is flat. (If the light receiver tilts, the light reception range may become narrower)
- (4) Close and return the panel to its original state.

# <When not using the light receiver height adjustment spacers>

- (1) Open the panel
- (2) Loosen the 2 light receiver fixing screws.



(3) Attach the U-washer.



## Note

- Do not use an electric screwdriver. Tighten the screws by hand.
- The number of U-washers used shall be no more than 6 per location. (The light receiver fixing screws cannot be tightened if 7 or more U-washers are used)
- Be sure to loosen the screws on both sides before sliding on the U-washers.
- Slide the U-washers onto the light receiver fixing screws until they click.
- Use U-washers so that the light receiver is flat. (If the light receiver tilts, the light reception range may become narrower)
- (4) Close and return the panel to its original state.

### If the lateral gap between the panel and light receiver has shifted after installation, you can fine-adjust the light receiver position.



Finely adjust according to the instructions below.

- (1) Loosen the 2 light receiver fixing screws.
- (2) Finely adjust the light receiver position by moving the light receiver left and right.
- (3) Tighten the 2 light receiver fixing screws.
- \* Tighten the light receiver fixing screws while holding the light receiver firmly to prevent it from tilting.

### Note

- Do not use an electric screwdriver. Tighten the screws by hand.



(4) Close the panel and make sure that the gap is uniform.



# 2. Remove the terminal block cover (for routing the power supply/transmission cables)



### Note

- Make sure that the removed terminal block cover, screws, or other parts do not get lost.
- 3. Insert the air supply/exhaust ducts into the duct connecting flanges.
- 4. Stick the tape (commercially available) on the gaps between the duct connecting flanges and the ducts.



## 7 Fix the main unit

- 1. Pass the power supply/transmission cables through the access hole on the main unit.
- 2. Lift up the main unit and secure it to the ceiling suspension fixture with the 10 supplied drill screws. (8 vertical and 2 horizontal screws)

### Note

- Do not use an electric screwdriver. Tighten the screws by hand.
- Use a tightening torque of 1.8 Nm or less.

Power supply/transmission cables sion cable access hole Power supply/transmission cables



## 8 Electrical work

Refer to 5 Electrical work at

<When attaching ceiling material later on>.

9 Attach the panel

Refer to 7 Attach the panel at

When attaching ceiling material later on>.

If you are not satisfied with the relative position between the panel and the light receiver after installation, make fine adjustments.

<If you want to finely adjust the lateral gap
between the panel opening and light receiver>
If the lateral gap between the panel opening and

If the lateral gap between the panel opening and light receiver has shifted, you can fine-adjust the light receiver position.



Gap between the panel opening and light receiver is uniform

Gap between the panel opening and light receiver is not uniform

Finely adjust according to the instructions below.

- (1) Loosen the 2 light receiver fixing screws.
- (2) Finely adjust the light receiver position by moving the light receiver left and right.
- (3) Tighten the 2 light receiver fixing screws.\* Tighten the light receiver fixing screws while holding the light receiver firmly to prevent it from

## Note

tilting.

- Do not use an electric screwdriver. Tighten the screws by hand.



(4) Close the panel and make sure that the gap is uniform.

# <If you want to finely adjust the heights of the panel and light receiver>

<When the heights are aligned (flat).>



<When the heights are not aligned (the light receiver is above the panel surface)>\_\_\_\_

Panel Light receiver

If you are not satisfied with the difference in level between the panel and light receiver (up to 6 mm), finely adjust the height of the light receiver by using the supplied U-washers.

- (1) Open the panel.
- (2) Loosen the 2 light receiver fixing screws.

## Note

- Do not use an electric screwdriver. Tighten the screws by hand.



- (3) Place the supplied U-washers on the loosened light receiver fixing screws.
  - Adjust the number of U-washers used so that the panel and the light receiver become flat.
  - The number of U-washers used shall be no more than 6 per location. (The light receiver fixing screws cannot be tightened if 7 or more U-washers are used)
  - Be sure to loosen the screws on both sides before sliding on the U-washers.
  - Slide the U-washers onto the light receiver fixing screws until they click.



(4) Retighten the 2 light receiver fixing screws.Use U-washers so that the light receiver is flat. (If the light receiver tilts, the light reception range may become narrower)

## Note

- Do not use an electric screwdriver. Tighten the screws by hand.
- (5) Close the panel. Make sure that the panel and the light receiver are flat.





### 5. Secure the main unit

- (1) Pass the power supply/transmission cables through the access hole on the duct connecting plate to the main unit.
- (2) Push the main unit in.
- (3) Secure it with the 10 supplied drill screws. (8 vertical and 2 horizontal screws)

### Note

- Do not use an electric screwdriver. Tighten the screws by hand.

#### - Use a tightening torque of 1.8 Nm or less.

Power supply/transmission cables access hole



## 5 Electrical work

Refer to When suspending the unit with suspension bolts.

### 6 Install the ceiling material

Be sure to leave a 2 to 3 mm gap between the main unit flange and the ceiling material.

- Otherwise, the main unit can no longer be removed and installed.



### For details on installation from here on, refer to

7 Attach the panel and 8 Light receiver height adjustment

at When suspending the unit with suspension bolts.

When attaching ceiling material beforehand> This construction method is for installing the main unit after attaching ceiling material beforehand

For details on 1 Installation positioning and

2 Duct work, refer to

When suspending the unit with suspension bolts .

### Note

 Do not secure the main unit directly to joists. Be sure to secure it to the ceiling material. (The light receiver position may be displaced, resulting in a decrease in the reception sensitivity)

# **3** Assemble the joists

# Assemble a mounting frame with ceiling joists and auxiliary joists

Use 45-mm joists.



# 4 Install the ceiling material

Install the ceiling material and make a hole of the size shown in the figure below.



## Note

- Make sure that the tilt angle of the ceiling material is 1° or less.
- Be sure to use a ceiling material with a thickness of 12 mm or less.

# 5 Install the main unit

1. Remove the terminal block cover



Terminal block cover

# Note

- Make sure that the removed terminal block cover, screws, or other parts do not get lost.

# 2. Remove the duct connecting plate

Remove the tape and then remove the duct connecting plate from the main unit.

- Make sure that the removed tape or other foreign objects do not enter the main unit. (An abnormal noise may be generated)
- Make sure that no load is applied to the light receiving unit. (Refer to "Be careful about handling of the main unit after unpacking" on page 4)



### 3. Connect the ducts

- (1) Insert the air supply/exhaust ducts into the duct connecting flanges.
- (2) Stick tape on the gap between the duct connecting flanges and ducts
  - Fix the ducts with a commercially available band, aluminum tape, etc. to prevent them from being detached.



(3) Heat insulate the air supply/exhaust ducts and duct connecting plates.

## 4. Attach the duct connecting plate

- (1) Insert the duct connecting plate into the joists.
- (2) Secure it with the 2 supplied wood screws.



### 5. Secure the main unit

- (1) Pass the power supply/transmission cables through the access hole on the duct connecting plate to the main unit.
- (2) Push the main unit in.
- (3) Secure it with the 10 supplied drill screws. (8 vertical and 2 horizontal screws)

### Note

- Do not use an electric screwdriver. Tighten the screws by hand.
- Use a tightening torque of 1.8 Nm or less.

Power supply/transmission cables access hole



### For details on installation from here on, refer to

5	Electrical work	and	7	Attach the panel
(ex	cluding "2. Cut	the pa	arti	ition plate") at

When suspending the unit with suspension bolts

# **Checking after installation**

- Inspect the installation work according to the check table after the installation is completed and before starting the test run.
- If a problem is found, be sure to fix it. (Full functionality may not be available and safety may not be ensured)



- Electrical work should be performed by a professional electrical contractor (electrical worker) safely and properly according to the electrical equipment technical standards and the internal wiring regulations.
  - Connection errors and incorrect electrical work may cause electric shock or fire.
- Check table

Check item	Action against problems	Put check mark
Is the main unit installation strength sufficient?	Reinforce the strength.	
Is the main unit securely installed?	Retighten the main unit fixing screws.	
Is the panel securely installed?	Reattach the panel. * Since a gap is provided between the panel frame and the ceiling, they do not contact each other but this is normal.	
Is the specified voltage being applied?	Apply the specified voltage. (Applying a different voltage damages the product)	

# Test run

### Perform the test run with the customer in attendance if possible.

# 🕂 Warning

### - Use the specified voltage.

- Failure to do so may cause fire or electric shock.

### 1. Turn on the power

Turn on the power supply isolator.

#### 2. Check the operating conditions.

- (1) Operate the unit with the remote controller.
- (2) Check that Start and Stop can be controlled and High and Low can be selected correctly.
- (3) Check that the operation lamps on the main unit turn on correctly.
  - \* Refer to page 5 of the Operating Instructions for details.

#### 3. Check that there is no abnormal vibration or noise

Stop the operation after checking it.

#### 4. Turn off the operation lamps

\* Press [LED OFF/ON] on the remote controller to turn off the operation lamps.

#### 5. Turn off the power

Turn off the power supply isolator.

6. Remove the remote controller lithium battery from the remote controller and put the battery back into the bag.

#### Check table

Check item	Action against problems	Put check mark
Is there a rotor contact noise?	Detach the panel and remove dust and other particles (only in the visible range).	
Is there any abnormal vibration?	Retighten the main unit fixing screws or reinforce the strength.	
Can the main unit be operated with the operation selector switch on the main unit?	There is a wiring error. Re-wire according to the wiring diagram.	
The unit cannot be operated with the remote controller.	<ul> <li>Operate the unit within the reception range.</li> <li>Check the insertion of the battery.</li> </ul>	
Do the operation lamps on the main unit turn on?	The operation lamps on this product turn on only when you press the OFFON button on the remote controller to set ON. * Refer to page 5 of the Operating Instructions for details.	

# **Explanation to the customer**

- Explain the position of the power supply isolator to the customer.
- Explain the results on the check table to the customer.
- Hand this Installation Manual over to the customer along with the separate Operating Instructions.
- If the customer is unavailable, please explain the above to the person who placed the order (the owner, etc.) or manager.
- Hand over the remote controller, remote controller holder, remote controller lithium battery, and remote controller mounting screws to the customer.

# MITSUBISHI ELECTRIC CORPORATION

Manufactured by: MITSUBISHI ELECTRIC CORPORATION TOKYO BLDG. 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO, 100-8310 JAPAN