

## LOSSNAY HEAT RECOVERY VENTILATOR (RESIDENTIAL USE) MODEL

## VL-220CZGV-E

## Instruction Manual



## For user

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## Do not attempt to install the product by yourself. (Safety and proper functions of the product may not be assured.)

- This product is for residential use.
- To ensure correct and safe use, read the instruction manual thoroughly. Before using the product, check "Safety Precautions" to use it correctly and safely.
- After reading, store the manual in a handy location for easy access.

## 1. Safety Precautions

The following symbols denote the type and degree of danger resulting from incorrect handling.



$\triangle$	CAUTION	Incorrect handling of the product may result in injury or damage to property or household effects.			
Prohibited	Do not use the Lossnay unit at locations where toxic gas or gas containing corrosive components such as acids, alkaline, organic solvents, or paints is generated. Failure to heed this warning may result in malfunction. Do not place objects under the product. Dew condensation water may drip. During cleaning and maintenance, do not climb on an unstable stand. Injury may result if you tumble down.	household e	Do not spray the Lossnay unit, wall switch, or supply air/ exhaust grille with a insecticide, hair, or cleaning spray. Failure to heed this warning may deform or damage parts. 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		
Follow	Make sure that drain piping is installed at the discharge outlet. Wear gloves during cleaning and maintenance. Failure to heed this warning may result in injury. When removing the supply air filter case and exhaust filter case, dew condensation water that has built up inside sometimes drips. So, remove the filter cases gently by supporting them with both hands so that they are not tilted. Securely install the parts after cleaning and maintenance. Injury may result if the parts should fall.		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.)		

- When this product ventilates, it takes in cold air from the outside in winter. For this reason, when the outside air temperature drops, moisture in the air around the product condensates, and water drops sometimes adhere to the product or drop. This, however, is not a malfunction. Wipe off any water droplets.
- When outside air temperatures are low and operation of the product is stopped, operation of the ventilator or pressure of the outside wind might cause outside air to flow in from the product, which may result in dew condensation forming on the product and other parts. This is not a malfunction. Wipe off any water droplets.
- When a lot of humidity is generated from building materials at newly built houses, dew condensation may form on the product and other parts. This is not a malfunction. Wipe off any water droplets.
- When a strongly fragrant scent, etc. is used in toilets, bath rooms and wash basins, or when cigarette or other smoke is discharged, odor is sometimes sense from the air vent.
- Operating noise may be a cause of concern directly underneath the product.
- When ventilating a bathroom, operate the product for 24 hours.

## 2. Features

#### What is the LOSSNAY HEAT RECOVERY VENTILATOR ...?

- Effective ventilation routes can be achieved in the entire house by the supply air vent and the exhaust vent being installed at locations away from each other depending on the duct connection method.
- Built-in filters reduce the influx of dust, pollen, etc, in outside air before the air is supplied to rooms.

#### During heat exchanger operation

Dirty air from inside the room is discharged (=exhaust), and clean air from the outside is taken into the room (=air supply). During this time, air is discharged and taken in through the Lossnay core (heat exchanger). As a result, air is ventilated while reusing (heat collection) the warmth or coolness of the room which is discarded during ventilation.

When air conditioning is used in summer and winter, heat exchange ventilation reduces the load placed on air conditioning to ensure energy savings.

#### During "By-pass" operation

When exhaust and air supply are performed, air is supplied to the room without any change in the outside air temperature due to exhaust being performed without passing through the Lossnay core.

- \* This function can be used only when the optional motorized damper (P-133DUE-E) is used.
- In spring and fall, and summer nights, for example, the cool air of the outside is taken in.

## 3. Preparations Before Use

- Receive an explanation about operation procedures and the correct method of use to ensure safe operation. Make sure that trial operation and operation checks described in the Installation Manual have been carried out.
- Do not stop operation except in the following instances. (Resume operation after the Lossnay unit has been temporarily stopped.)
  - When there is heavy snow, strong winds or heavy rain such as snowstorms or typhoons
  - When there is thick fog
  - During cleaning and maintenance
- When a lot of humidity is generated from building materials at newly built houses, dew condensation may form on the product and other parts. So, switch the operation mode to temporarily stop operation, and open the windows.

#### Use the following procedure to check the positions and operation methods.

- Inspection opening ... It is required for maintenance on the product. This product is installed in house attics.
  - So, maintenance is performed in the attic.
  - If there is no inspection opening for maintenance or you find the inspection opening and product position are out of their designated dimensions after checking the layout drawing for the inspection opening given in the Installation Manual, contact your dealer or electrical contractor.

Grills.......They are required on the supply air and exhaust sides of the Lossnay unit. To reduce the frequency of cleaning <sup>(Example)</sup> the filters on the Lossnay unit, we recommend using a filter for taking up dust in the room in the exhaust grill.



Remote controller...It is required for starting and stopping operation of the Lossnay unit and for switching the fan speed.



#### Note:

- The Lossnay unit is not an air-conditioner.
- We recommend local ventilation for discharge cigarette smoke, etc.
- We recommend installing beds away from the supply air vent. (During sleep, you may be bothered by the operating sound of the Lossnay unit or feel cold air.)

## 4. Names and Functions of Parts



## When using PZ-61DR-E

Also read the Instruction Book for the remote controller (PZ-61DR-E). This cannot be used together with the remote controller (PZ-43SMF-E).



## Names and functions of controller components

## Controller interface



## 1 ON/OFF button

Press to turn ON/OFF the Lossnay unit.

## 2 SELECT button

Press to save the setting.

## 3 **RETURN** button

Press to return to the previous screen.

## 4 MENU button

Press to bring up the Main menu.

## 5 Backlit LCD

Operation settings will appear.

When the backlight is off, pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen.

When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except for the <u>ON/OFF</u> button)

### 6 ON/OFF lamp

This lamp lights up in green while the unit is in operation. It blinks while the remote controller is starting up or when there is an error.

The functions of the function buttons change depending on the screen. Refer to the button function guide that appears at the bottom of the LCD for the functions they serve on a given screen. When the system is centrally controlled, the button function guide that corresponds to the locked button will not appear.



## 7 Function button F1

Main menu: Press to move the cursor down.

## 8 Function button F2

Main display: Press to change the fan speed. Main menu: Press to move the cursor up.

## 9 Function button F3

Main display: Press to change the ventilation mode\*. Main menu: Press to go to the previous page.

## **Function button F4**

Main menu: Press to go to the next page.

If LOSSNAY does not have the function or operation is not possible, the operation guide is not displayed.

\* The mode can be switched only when the optional motorized damper (P-133DUE-E) is used.

## Display

\* All icons are displayed for explanation.



### 1 Remote controller name

Lossnay is always displayed.

## 2 Clock (See the Installation Manual.)

Current time appears here.

#### **③** Fan speed

Fan speed setting appears here.

#### **4** Button function guide

Functions of the corresponding buttons appear here. \* The mode appears only when the optional motorized damper (P-133DUE-E) is used.

#### 5

Indicates when filter needs maintenance.

## 6 🗗

Appears when the buttons are locked and/or a fan speed is skipped.



Appears when the On/Off timer, or Auto-off timer function is enabled.



Appears when the Weekly timer is enabled.

## 9 🝢

Appears when performing operation to protect the equipment.

### 10 Ventilation mode

Indicates the ventilation mode setting.

\* The mode appears only when the optional motorized damper (P-133DUE-E) is used.

## Basic operations



Fan speed



Press the F2 button to go through the fan speeds in the following order.



A fan speed that is skipped because of a fan skip setting is not displayed.

## Ventilation mode



Press the F3 button to go through the Ventilation mode in the following order.



\* The mode can be switched only when the optional motorized damper (P-133DUE-E) is used.

Display	Function
Auto/ Auto ♯☆ / ♯ 듯	The mode is switched automatically between the heat exchanger mode and by-pass mode. Initial preset temperature: At 22 °C to 28 °C, the by-pass mode is used. Details on how to change the temperature setting are given in the Lossnay unit (VL- 220CZGV-E) Installation Manual, "Function Setting."
***	The Lossnay unit runs in the heat exchanger mode.
$\stackrel{\longleftarrow}{\rightarrow}$	The Lossnay unit runs in the by-pass mode.

When the outdoor air temperature decreases to 8 °C or lower, the mode is switched automatically to heat exchanger mode even if Ventilation mode was set. The indication on the remote controller remains as by-pass mode. (Freeze prevention)

## ■Controller operation-Function settings

## 5. How to Use (continued)

## Language selection

## Function description

The desired language can be set. The language options are English, French, German, Spanish, Italian, Portuguese, Swedish, and Russian.

#### Button operation

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Initial setting menu

Language selection

Language selection

Changes saved

Français Español

Русский

Português

F2

Français Español

Português

F3

F4

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Русский

F3

-

Administrator password Language selection

F2

Auto mode

Main menu: া

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Enalish

Deutsch

Italiano

Select: V

F1

•

Svenska

C

English

Deutsch Italiano

Svenska

Main menu: া

F1

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2/2

F4

ഗ



initial password "9999" and press the SELECT button. \* For details on how to change the password, refer to the PZ-61DR-E Instruction Manual.

Move the cursor to the "Language selection" with the F1 or F2 button, and press the SELECT button.

Move the cursor to the language you desire with the  $\boxed{F1}$  through  $\boxed{F4}$  buttons, and press the  $\boxed{SELECT}$  button to save the setting.

When the power is on for the first time, the Language selection screen will be displayed. Select a desired language. The system will not start-up without language selection.

A screen will appear that indicates the setting has been saved.

- Navigating through the screens
- To go back to the Main menu ........... MENU button
- To return to the previous screen ...... RETURN button

## Maintenance



## Maintenance

#### Care of the remote controller

To remove dirt from the remote controller's display window, wipe with a cloth to which detergent has been applied; and then wipe with a dry cloth to remove any remaining detergent.

Do not use the following solvents. (They will change the quality and the color.)

- Paint thinner, alcohol, benzene, gasoline, kerosene, spray cleaner, cleaning alkali, etc.

## Timer, Weekly timer

The settings for Timer and Weekly timer operation can be made from the remote controller.

Press the MENU button to go to the Main menu, and move the cursor to the desired setting with button F1 or F2. Refer to the Instruction Book of the remote controller for further information.



### Timer

- On/Off timer
  Operation On/Off times can be set in 5-minute increments.
- Auto-Off timer
  - Auto-Off time can be set to a value from 30 to 240 in 10-minute increments.

#### Weekly timer

Operation On/Off times for a week can be set. Up to eight operation patterns can be set for each day.

## Troubleshooting

## Error information

When an error occurs, the following screen will appear. Check the error status, stop the operation, and consult your dealer.



Error code, error unit, unit model name, and serial number will appear.

The model name and serial number will appear only if the information have been registered.

Press the F1 or F2 button to go to the next page.

Contact information (dealer's phone number) will appear if the information have been registered.

## After-Sales Service

After-sales servicing of the remote controller unit should be ordered from the dealer from where this product was purchased.

## When using PZ-43SMF-E

Also read the Instruction Book for the remote controller (PZ-43SMF-E). This cannot be used together with the remote controller (PZ-61DR-E).



## Component Names



#### A Ventilation mode

Displayed the ventilation mode status.

Heat exchange By-pass Automatic (HEAT EX./BY-PASS) → BY-PASS → BY-PASS → BY-PASS → AUTO BY-PASS

\* The mode appears only when the optional motorized damper (P-133DUE-E) is used.

#### **B** Power Display

Displayed while the Lossnay remote controller is powered on.

#### © [TIMER] Display

Displayed on-timer or off-timer duration.

## D [NOT AVAILABLE] Display

When a button is pressed for a function which the Lossnay unit cannot perform, this display flashes concurrently with the display of the function.

#### **E** Fan speed Display

Displayed the selected fan speed.

#### **F** [CHECK] Display

Displayed together with the malfunctioning unit (3 digits) and an error code (4 digits).

#### **G** [FILTER] Display

Displayed when the accumulated operating time reaches at the time set for filter maintenance.

#### (H) [Ventilation mode] Button

Used to select the ventilation mode among heat exchange, by-pass or automatic.

\* The mode can be switched only when the optional motorized damper (P-133DUE-E) is used.

#### () [TIMER] Button

Increasing 0:30 by pressing it once. Keep pressing the button for fast-forwarding.

## J [ON/OFF] Button

Switch for start and stop.

## **(K) Operation lamp**

On during operation. Flashes when a malfunction occurs.

#### (L) [Fan Speed] Button

Used to select the fan speed either "Low" or "High".

- Low High
- Note: If this button is pressed when trying to switch the fan speed of a Lossnay unit which is not equipped with the fan speed adjustment, the fan speed display and NOT AVAILABLE display flash and the unit's fan speed does not change.

#### M [FILTER] Button

Press twice to reset the filter sign display.

#### Note:

- When power is restored after an outage or when the corresponding circuit breaker on the power board is reset, all models will return to the condition before the supply of power was interrupted.
- When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except "ON/OFF" button)

## Mode of Use

Independent operation of the Lossnay unit:

Operation	Relevant button	Relevant display items	Sequence
Starting the Lossnay unit	N Ø ↓ QN/OFF	AUTO .	Press the "ON/OFF" button and check that the operation lamp turns on.
Setting the Ventilation mode * The mode can be switched only when the optional motorized damper (P-133DUE-E) is used.	×	AUTO	Press the "Ventilation mode" button: Each time it is pressed, the corresponding display will change in accordance with the sequence [HEAT EX.] (non-automatic)> [BY-PASS] (non- automatic)> [AUTO]. If [AUTO] is selected, the display will change to indicate the current mode after three seconds have passed.
Selecting the fan speed	<b>3</b>	AUTO	Press the "Fan Speed" button to select either Low or High fan speed.
Stopping the Lossnay unit	Operation lamp	۲	Press the "ON/OFF" button. (and check the operation lamp turns off.)

## Maintenance

	Relevant button	Relevant display items	Sequence			
Filter reset (Clear of the total operation time)	<b>FILTER</b> Double pressing		Press the "FILTER" button twice quickly, then "FILTER" indication will be disappeared.			
Cleaning of the Lossnay unit's filter	For details on how to clean, see pages 13 and 14.					
Care of the remote controller	To remove dirt from the remote controller's display window, wipe with a cloth to which detergent has been applied, and then wipe with a dry cloth to remove any remaining detergent. Do not use the following solvents. (They will change the quality and the color.) - Paint thinner, alcohol, benzene, gasoline, kerosene, spray cleaner, cleaning alkali, etc.					

## After-Sales Service

- If any of the following inspection numbers should be displayed on the remote controller, please contact your dealer from where the product was purchased for more information.
  4000, 5101, 5102, 3602, 3600, 0900
- After-sales servicing of the remote controller unit should be ordered from your dealer from where the product was purchased.

## 6. Maintenance

To keep the Lossnay functions in good condition for a long time, clean dirt or dust from the filters periodically (at least once every six month or more frequently depending on the operating environment). Clean dirt or dust in the Drain pan (supply air side) periodically (at least once every six month or more frequently depending on the operating environment).

## 

Be sure to turn off the remote controller and the circuit breaker on the power board before cleaning and maintenance.

Failure to heed this warning may result in electric shock or injury.

## 

**Wear gloves during cleaning and maintenance.** Failure to wear gloves may result in injury.

During cleaning and maintenance, do not climb on an unstable stand.

Injury may result if you tumble down.

**Securely install parts after cleaning and maintenance.** Injury could result if parts fall.

## How to remove parts

### Removing the filter

- (1) Set the ON/OFF button on the remote controller to "OFF".
- (2) Turn the three supply air filter fixing knobs to unlock the knobs.



(3) Gently draw out the supply air filter case.



(4) Turn the two exhaust air filter fixing knobs to unlock the knobs.



(5) Gently draw out the exhaust air filter case.



### Note:

- Dirt or dust may fall when the air filter cases are removed. Also, dew condensation water sometimes builds up in some operating environments. Remove the air filter cases gently by supporting them with both hands so that they are not tilted while taking care not to spill or be splashed with dew condensation water.

## Remove the air filters from the supply air filter case and the exhaust air filter case

Supply air filter : 2 sheets Exhaust air filter : 2 sheets



Exhaust air filter case

## How to clean the supply air filters and exhaust air filters

Clean at least once every 6 months.

Either lightly tap with your hand or wipe off dust with a vacuum cleaner.

If the filter is heavily soiled, press and wash the filter with cold or warm water (40°C or less), and then let them dry sufficiently.



### Note:

- When a filter is damaged or it has been washed with water about four times, replace with the Standard Replacement Filter (P-220F-E) (sold separately).
- After replacing the filters, dispose of the used supply air filters and exhaust air filters for in accordance with disposal methods designated in the region where you live.

Supply air filters and exhaust air filters are made of PET and acrylic fibers.

## Note:

Use the filters below (sold separately) to suit your specific application.

Туре	Type Model Approximate Service Life		Notes
High Efficiency Supply Air Filter (contains 2 sheets)	P-220SHF-E	1 year (replacement) Cannot be cleaned	Can be replaced with supply air filter. (M6 class, EN779:2012)
Medium Efficiency Exhaust Air Filter (contains 2 sheets)	P-220EMF-E	2 years (replacement) Clean approximately once every 6 months	Can be replaced with exhaust air filter. (G4 class, EN779:2012)
Standard Replacement Filter (contains 2 sheets)	P-220F-E	Replace when broken Can be washed with water and re- used 4 times	Can be replaced with supply air filter and exhaust air filter. (G3 class, EN779:2012)

## How to replace filters (sold separately)

Remove the supply air filters or exhaust air filters, and install new filters (sold separately).

#### Note:

- Be sure to install filters in the filter case before installing the filter case on the Lossnay unit.
- Do not mix up supply air filters and exhaust air filters.

### How to clean drain pan (supply air side)

Clean the drain pan (supply air side) with a vacuum cleaner if you are worried about dirt or dust sticking to the pan.



Drain pan (supply air side)

#### Note:

- Before cleaning the drain pan (supply air side), make sure that no dew condensation water on the drain pan.

# Assembling and checking after cleaning and maintenance

## 

Securely install parts after cleaning and maintenance. Injury could result if parts fall.

- 1. Install the filter on the filter case by following the disassembly procedure in reverse.
  - Make sure that the filter is not protruded from the filter case.
- 2. Install the supply air filter case on the Lossnay unit.
- 3. Turn the three supply air filter fixing knobs to secure the knobs to the Lossnay unit.
- 4. Install the exhaust air filter case to the Lossnay unit.
- 5. Turn the two exhaust air filter fixing knobs to secure the knobs to the Lossnay unit.
- 6. When you have finished assembling the Lossnay unit, press the ON/OFF button on the remote controller to check the following:
  - Check for emission of abnormal noise.
  - Check for normal air flow.
  - Check for air leakage from the installation section of the supply air filter case or exhaust air filter case.
- 7. Reset the filter cleaning sign.
  - For details on how to reset the filter cleaning sign, see page 9 or page 12.

#### Note:

- In some operating environments, dew condensation water or snow/mist water droplets may adhere to the filters. This, however, is not a problem in product performance or quality.
- Do not forget to install the filters inside the Lossnay unit. (Doing so results in dirt clogging the surface of the Lossnay core or a drop in fan speed.)
- Use filters (sold separately) to suit your specific application if you are worried about small insects getting inside or small dirt or dust particles.

## 7. Troubleshooting

Take the following actions if trouble shown in the table below occurs. If trouble is not corrected even after taking the required action, or if trouble other than that indicated in the following table occurs, turn OFF the circuit breaker on the power board, and then contact your dealer or an electrical contractor.

Symptom	Cause	Action
No operation	Power is not supplied to the Lossnay unit.	Check the circuit breaker on the power board.
	The ON/OFF button on the remote controller is not "ON".	Press the ON/OFF button on the remote controller to turn on.
Operating noise has	The filter is not installed securely.	Re-install the filter. (see page 14.)
increased	The filter is clogged.	Clean the filter. (see pages 13 and 14.)
	The outdoor hood is blocked.	Remove obstacles.
Air flow has reduced	The filter is clogged.	Clean the filter. (see pages 13 and 14.)
Burbling noise from product	Dew condensation water in the drain pipes is sucked into the wind taken in by the ventilation unit but is not being discharged.	Change the ventilation unit mode to low operation. This makes it easier for dew condensation water in the drain pipes to be discharged and will eliminate the knocking noise.
Noise fluctuates	Noise sometimes gets louder because of the influence of outside wind. This is not a malfunction.	If you are worried about sound fluctuation, contact your dealer or an electrical contractor.
Dew condensation water in the filter case	Dew condensation water sometimes builds up in some operating environments.	It is not a malfunction.
The volume of the operating noise is different in different rooms	The volume of the noise sometimes differs, for example, because of the length of the piping to each room.	It is not a malfunction.
Sometimes air stops being blown out of the Lossnay unit	The unit is operating in the supply air intermittent mode.	It is not a malfunction. See "Automatic supply air stop function/Automatic supply air intermittent operation function." (see below)
Supply air flow is cold	The outdoor air temperature is low.	It is not a malfunction. Supply air sometimes is cooled be the outside air.

## Automatic supply air stop function/Automatic supply air intermittent operation function

To prevent dew condensation forming on the Lossnay core and water droplets from adhering to the product when there is a drop in the temperature of the outside air, operation of the supply air fan is controlled to approximately the following temperatures.

Supply air stop mode (continuous supply air stopped)	Supply air intermittent operation (24-minute operation followed by a 6-minute stop)	Continuous operation	
Outdoor air temperature -5°C	-5°C or more from outdoor air	Outdoor air temperature 0°C or	
or lower	temperature of 0°C	higher	

#### Note:

- The exhaust fan runs continuously regardless of outdoor air temperature.
- Even while the supply air fan has stopped, the Lossnay unit sometimes operates periodically to measure the outdoor air temperature.

## 8. Specifications

Model			VL-220CZGV-E				
Electrical power supply			22	220-240 V / 50 Hz 220 V / 60 Hz			
Ventilation mode				Heat recovery mode			
Fan speed			Fan speed 4	Fan speed 3	Fan speed 2	Fan speed 1	
Input power (W)			80	35	18.5	8.5	
Air volume (m <sup>3</sup> /h) (L/s)		230	165	120	65		
		(L/s)	64	46	33	18	
External static pressure (Pa)			164	84	44	13	
Temperature exchange efficiency (%)			82	84	85	86	
Noise (dB)	(Measured at 1.5 m under the centre an anechoic chamber)		31	25	19	14	
Weight (kg)				3	1		

\* The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230 V / 50 Hz.

\* For the specification at the other frequency contact your dealer.

## 9. After-Sales Service

Consult with your dealer about the after-sales services provided for Lossnay.

If you hear strange sounds, if no air is blown out or if some other trouble occurs, turn off the power and contact your dealer. Consult with your dealer concerning the cost of inspection or repair work.

### Retention period of functional repair parts

We will retain the functional repair parts for six years after terminating production of the product. The functional repair part means a part which is necessary to maintain the function of the product.

#### Recommended inspection and maintenance

After several years of use, the following might occur. We recommend inspection and maintenance by a professional.

- Water leakage due to clogging of drain hose
- Entry of dust due to deterioration of filters
- Abnormal noise or vibration due to the motor reaching the end of its service life
- Air leakage due to the heat exchanger Lossnay core reaching the end of its service life

The following are consumables:

- Motor
- Supply air filter
- Exhaust air filter
- Lossnay core

■ Repair costs include technical fee, cost of parts, (and business trip charges), etc.

## Manufactured by: MITSUBISHI ELECTRIC CORPORATION

TOKYO BLDG. 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO, 100-8310 JAPAN Importer in EU: MITSUBISHI ELECTRIC EUROPE B.V. HARMAN HOUSE, 1 GEORGE STREET, UXBRIDGE, MIDDLESEX, UB8 1QQ, U.K.