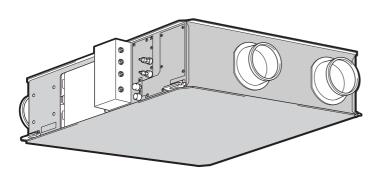
Fresh Master

Models:

GUF-50RDH3 · GUF-50RD3 GUF-100RDH3 · GUF-100RD3

Operating Instructions

(For the user)



GUF-50RDH3 shown above.

Humidifier function not available on GUF-50RD3 and GUF-100RD3.

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Please read through these instructions in order to familiarize yourself with the proper and safe procedures for operating the Fresh Master.

After reading this manual, keep it in an easily accessible and safe place for future reference.

The warranty will not apply to damage resulting from failure to follow the warnings and precautions included in the Operating Instructions.



For use with the R410A & R407C & R22

1. Safety precautions

- Before operating the unit, make sure you read all the "Safety precautions".
- "Safety precautions" lists important points about safety. Please be sure to follow them.

Symbols used in the text

⚠ Warning:

Describes precautions that should be observed to avoid the risk of injury or death to the user.

⚠ Caution:

Describes precautions that should be observed to prevent damage to the unit.

Symbols used in the illustrations

(1): Indicates that important instructions must be followed.

(1): Indicates a part which must be grounded.

: Beware of electric shock. (This symbol is displayed on the main unit label.) <Colour: Yellow>

<u></u> Warning:

Carefully read the labels affixed to the main unit.

1.1. Installation

▶ After you have read this manual, keep it and the Installation Manual in a safe place for easy reference whenever a question arises. If the unit is going to be operated by another person, make sure that this manual is given to him or her.

Marning:

- The unit should not be installed by the user. Ask the dealer or an authorized company to install the unit. If the unit is installed improperly, water leakage, electric shock or fire may result.
- Use only accessories authorized by Mitsubishi Electric and ask your dealer or an authorized company to install them. If accessories are installed improperly, water leakage, electric shock or fire may result.
- The Installation Manual details the suggested installation method. Any structural alteration necessary for installation must comply with local building code requirements.
- Never repair the unit or transfer it to another site by yourself.
 If repair is performed improperly, water leakage, electric shock or fire may result. If you need to have the unit repaired or moved, consult your dealer.

1) Outdoor unit

Marning:

- The outdoor unit must be installed on a stable, level surface, in a place where there is no accumulation of snow, leaves or rubbish.
- Do not stand on, or place any items on the unit. You may fall down or the item may fall, causing injury.

⚠ Caution:

The outdoor unit should be installed in a location where air and noise emitted by the unit will not disturb the neighbours.

2) Fresh Master

⚠ Warning:

The Fresh Master should be securely installed. If the unit is loosely mounted, it may fall, causing injury.

3) Remote controller

The Remote controller should be installed in such a way that children cannot play with it.

4) Drain hose

⚠ Caution:

Make sure that the drain hose is installed so that drainage can go ahead smoothly. Incorrect installation may result in water leakage, causing damage to furniture.

5) Power Supply, fuse or circuit breaker

⚠ Warning:

- Make sure that the unit is powered by a dedicated power supply.
 Other appliances connected to the same power supply could cause an overload.
- · Make sure that there is a mains power switch.
- Be sure to adhere to the unit's voltage and fuse or circuit breaker ratings. Never use a cable or a fuse with a higher rating than the one specified.

6) Grounding

ACaution:

- The unit must be properly grounded. Never connect the grounding wire to a gas pipe, water pipe, lightning conductor or telephone grounding wire. If the unit is not grounded properly, electric shock may result.
- Check frequently that the ground wire from the outdoor unit is properly connected to both the unit's ground terminal and the grounding electrode.

1.2. During operation

⚠ Caution:

- Do not use any sharp object to push the buttons, as this may damage the Remote controller.
- Do not twist or tug on the Remote controller cord as this may damage the Remote controller and cause malfunction.
- Never remove the upper case of the Remote controller. It is dangerous to remove the upper case of the Remote controller and touch the printed circuit boards inside. Doing so can result in fire and failure.
- Never wipe the Remote controller with benzene, thinner, chemical rags, etc. Doing so can result in discoloration and failure.
 To remove heavy stains, soak a cloth in neutral detergent mixed with water, wring it out thoroughly, wipe the stains off, and wipe again with a dry cloth.
- Never block or cover the Fresh Master or outdoor unit intakes or outlets. Tall items of furniture underneath the Fresh Master, or bulky items such as large boxes placed close to the outdoor unit will reduce the unit's efficiency.

⚠ Warning:

- Do not splash water over the unit and do not touch the unit with wet hands. An electric shock may result.
- Do not spray combustible gas close to the unit. Fire may result
- Do not place a gas heater or any other open-flame appliance where it will be exposed to the air discharged from the unit. Incomplete combustion may result.

<u>⚠</u> Warning:

- Do not remove the front panel or the fan guard from the outdoor unit when it is running. You could be injured if you touch rotating, hot or high-voltage parts.
- Never insert fingers, sticks etc. into the intakes or outlets, otherwise injury may result, since the fan inside the unit rotates at high speed. Exercise particular care when children are present.
- If you detect odd smells, stop using the unit, turn off the power switch and consult your dealer. Otherwise, a breakdown, electric shock or fire may result.
- When you notice exceptionally abnormal noise or vibration, stop operation, turn off the power switch, and contact your dealer.
- Do not leave handicapped people or infants sitting or standing in the path of the airflow from the Fresh Master. This could cause health problems.

⚠ Caution:

Do not direct the airflow at plants or caged pets.

In case of failure

⚠ Warning:

- Never remodel the Fresh Master. Consult your dealer for any repair service. Improper repair work can result in water leakage, electric shock, fire, etc.
- If the Remote controller displays an error indication, the Fresh Master does not run, or there is an abnormality, stop operation and contact your dealer. Leaving the unit as it is under such conditions can result in fire or failure.
- If the power breaker is frequently activated, get in touch with your dealer. Leaving it as it is can result in fire or failure.
- If the refrigeration gas blows out or leaks, stop the operation
 of the Fresh Master, thoroughly ventilate the room, and contact your dealer. Leaving the unit as it is can result in accidents due to oxygen deficiency.

When the Fresh Master is not to be used for a long time

- If the Fresh Master is not to be used for a long time due to a seasonal change, etc., run it for 4 - 5 hours with the air blowing until the inside is completely dry. Failing to do so can result in the growth of unhygienic, unhealthy mold in scattered areas throughout the room.
- When it is not to be used for an extended time, keep the power supply turned OFF.
- If the power supply is kept on, several watts or several tens of watts will be wasted. Also, the accumulation of dust, etc., can result in fire
- Keep the power switched ON for more than 12 hours before starting operation. Do not turn the power supply OFF during seasons of heavy use. Doing so can result in failure.

1.3. Disposing of the unit

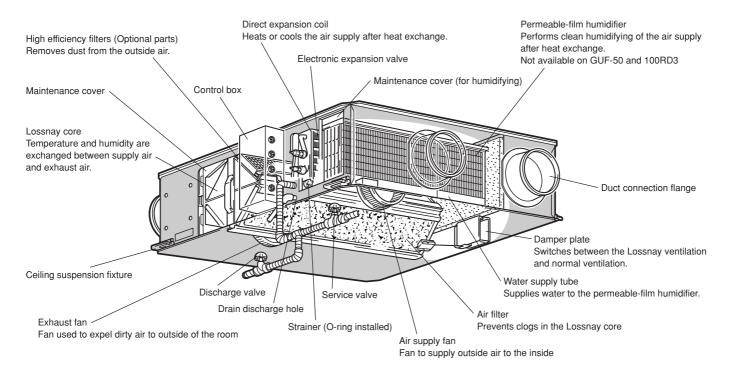
Marning:

When you need to dispose of the unit, consult your dealer. If pipes are removed incorrectly, refrigerant (fluorocarbon gas) may blow out and come into contact with your skin, causing injury. Releasing refrigerant into the atmosphere also damages the environment.

2. Names and functions of various parts

Fresh Master

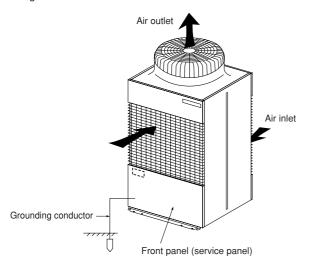
The Fresh Master supplies clean air that is close to the indoor temperature and humidity by using the Lossnay ventilation function and the direct expansion-coil air conditioning function The Fresh Master uses the high efficiency filter for dust removal and permeable-film humidifier to create a pleasant indoor environment.



^{*}GUF-50RDH3 shown above.

Outdoor unit

Outdoor units differ according to systems and can sometimes be in configuration other than those described in this manual.



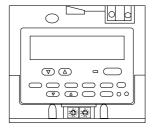
⚠ Caution:

Carry out grounding work. Never connect the grounding wire to a gas pipe, water pipe, arrester, or telephone grounding wire. Improper grounding work can result in electric shock.

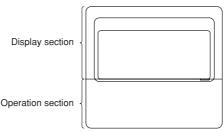
Remote controller

- Check out your remote controller. Different controllers are used for different systems.
- * If you open the door, the name of the Remote controller is shown at the lower left.

Remote controller [PAR-20MAA] [PAR-F27MEA]



(Diagram of a controller with the door open.)



(Diagram of a controller with the door closed)

Wiring diagrams

When interlocked with an indoor unit.

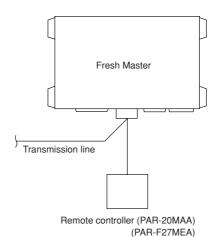
Fresh Master

Indoor Unit

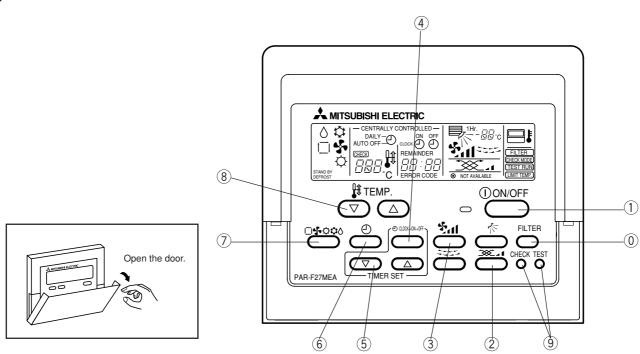
Remote controller (PAR-20MAA)

(PAR-F27MEA)

When not interlocked with an indoor unit.



Operation section



- ① [ON/OFF] Button
 - After natives between run and stop every time it is pressed. The lamp on the button stays lit during operation.
- ② [Ventilation] Button *
 - Used when switching the ventilation of the Fresh Master between Stop, Low and High.
- ③ [Fan speed adjustment] Button
 - Used to switch the fan speed between high and low.
- 4 [Time selection] Button
 - Used to switch between the current time, starting time, and ending time.
- (5) [Time-setting] Button
 - Used to set the current time, starting time, and ending time.
- ⑥ [Timer] Button
 - Used to switch between continuous operation and timer operation.
- * When interlocked only.

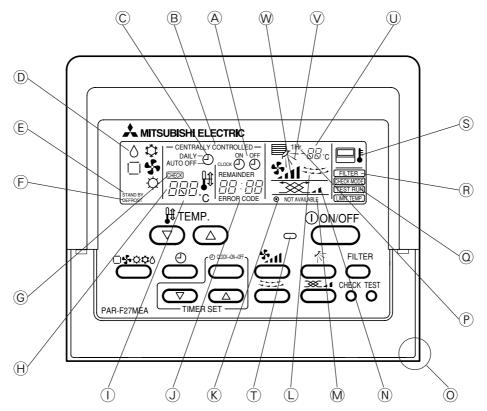
- Selecting operation] Button Used to switch between cooling, fan, and heating.
- 8 [Temperature adjustment] Button

Used to set the temperature.

Setting is made in units of 1°C.

- 9 [Checking/test run] Button
 - Used only during checking test run. Never use this button during normal operation.
- ① [Filter] Button
 - Pressed to reset the filter sign.

Display section



For purposes of explanation, all the displays on this page are shown in their lit condition. This configuration does not occur in the actual unit.

- (A) [Current/starting/ending time] Display When the time switch button is pressed, the current time, starting time and ending time are displayed for 10 seconds. During timer operation, the next starting time or ending time is always displayed.
- B [Centralized control] Display Displayed when control is executed by a separately sold centralized control unit, etc.
- © [Timer] Display
 This displays the modes of continuous operation/timer operation. Time is simultaneously displayed at the time of timer operation.
- Operation modeDisplays the status of operation.
- [Preparing for Heating] Display
 Displayed from the start of heating operation until the moment warm air
 blows out.
- (E) [Defrosting] DisplayDisplayed during defrosting operation.
- © [Checking] Display
 This displays indication when an abnormality occurs in the unit.
- (H) [Set temperature] Display Displays the set temperature.
- [Address numbers of indoor unit/unit in linked motion] Display Displayed when some abnormality occurs in the unit.
- [Error number] Display
 Displays the (4-digit) checking code when an abnormality occurs in the unit.
- Display "•"
 Displayed while the air conditioner is powered.

- ① [Louver operation] Display This displays the operation of a swing louver. This does not display in case of stop.
- M [Not available] Display When a button is pressed for any function that the indoor unit cannot perform, this display flashes concurrently with the display of that function
- (N) [Ventilation] Display * Displayed during the Fresh Master's operation.
- © [Position of built-in room temperature sensor]
- P [Set effective for one hour] Display Displays when the low air blow, downward blow, or horizontal blow (differs according to model) are set in the air-cooling and electronics dry operation. This display disappears after the elapse of one hour.
- [Now checking/test run] Display
- (R) [Filter] Display Displayed when it is time to clean the filter.
- Si [Sensor] Display Shows a position of the sensor that measures the room temperature.
- (T) [Operation] Lamp Lights up during operation, goes off during stop, and flashes in case of abnormality.
- ① [Room temperature] Display Displays the temperature of the air sucked in during operation. The range of display is 8° to 39°C. For temperatures outside this range, the display flashes at 8°C and 39°C.
- (i) [Fan speed] DisplayDisplays the selected fan speed.
- * When interlocked only.

3. How to operate

3.1. When interlocked with an indoor unit

- · Operation will be synchronized with an indoor unit.
- The humidifier will be operated by the heating signal received from the indoor unit. (For GUF-50, 100RDH3)
- In the case of GUF-50, 100RDH3, there is no temperature control since the temperature is adjusted according to the outside air temperature.

Starting and stopping operation

 Using the Remote controller to start or stop the indoor unit will automatically start or stop the Fresh Master.

Operation modes

- The Fresh Master will operate in the same mode as the synchronized indoor unit (heat, cool and fan).
- The Fresh Master will be cool when the indoor unit is operated in dry mode.

When using with multiple indoor units

 When using with multiple indoor units that are set differently, the Fresh Master will operate in the mode with priority of: heat, cool and fan.

When operating only the Fresh Master

- The Fresh Master can be operated independently by pressing the Ventilation button on the Remote controller (in this case, the operation mode will be fan).
- Pressing the Ventilation button each time will switch the display between Stop, Low and High.



3.2. When not interlocked with an indoor unit

- GUF-50, 100RD3 will adjust the temperature according to the indoor temperature set using the Remote controller.
- In the case of GUF-50, 100RDH3, there is no temperature control since the temperature is adjusted according to the outside air temperature.

3.2.1. Before starting operation

- Make sure that the power supply is turned ON before use.
 (Keep the power supply turned ON at all times when the Fresh Master is in use. Use of the unit without power can result in compressor failure.)
- Start running after the "HO" display has disappeared. The "HO" display briefly appears on the room temperature display (max. 10 minutes) when the power is turned on and after a power failure. This does not indicate any failure of the Fresh Master.
- The operation modes of the Fresh Master air-cooling operation and heating operation are different from those of the outdoor units. When the operation is started with cooling/heating and other indoor units or the Fresh Master connected to the counterpart outdoor units are already running in the same operation mode, the Remote controller displays air-cooling/heating mode. However, the operation comes to stop, and you cannot get a desired mode. When this occurs, you will be notified by the "cool" or "heating" display that flashes in the liquid crystal display of the Remote controller. Set to the operation mode of other indoor unit or the Fresh Master by the operation switch button.

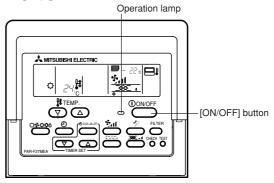
The above does not apply to the models that simultaneously run both the cooling operation and heating operation.

- The outdoor units stop when all the indoor units and the Fresh Master connected to the counterpart outdoor units stop.
- During heating operation, even if the indoor unit or the Fresh Master is set to operation while the outdoor unit is in defrosting operation, operation starts after the defrosting operation of the outdoor unit has ended.

⚠ Warning:

Check and confirm the power circuit before use. For contents, refer to the previously described chapter [Crucial points to be observed for safety].

3.2.2 ON/OFF



Start an operation

Press [ON/OFF] button

Operation lamp lights up and operation starts.

Stop an operation

Press the [ON/OFF] button again

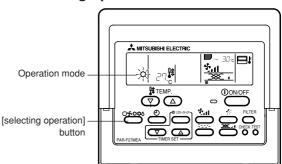
Operation lamp goes off and operation stops.

- Once the buttons have been set, pressing of the [ON/OFF] button only can repeat the same operation thereafter.
- During operation, the operation lamp above the [ON/OFF] button lights up.

⚠ Caution:

Even if the operation button is pressed immediately after the operation has stopped, operation will not restart for about 3 minutes. This function protects the machine. It automatically starts operation after approximately 3 minutes.

3.2.3. Selecting operation



When selecting operation

Press the [selecting operation] button

 Consecutive press of the selecting operation button switches the operation over to "cooling," "fan," "(automatic)," and "heating." For the contents of operation, check the display.

For cooling

Press the [selecting operation] button and bring up the "cooling" display

⚠ Caution:

Never expose your body directly to cool air for a long time. Excessive exposure to cool air is bad for your health, and should therefore be avoided.

For fan

Press the [selecting operation] button and bring up the "fan" display.

- · The fan operation functions to ventilate.
- · The temperature of the room cannot be set by fan operation.

For heating

Press the [selecting operation] button to bring up the "heating" display.

Regarding displays during heating operation "Under defrosting" Displayed only during the defrosting operation.

"Under preparation for heating"

Displayed from the start of heating operation until the moment warm air blows out.

 When in the "heating" mode, the humidifier will also operate. (For GUF-50, 100RDH3)

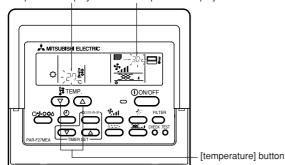
⚠ Caution:

- · When the Fresh Master is used together with burners.
- Never place a burner at a place where it is exposed to the airflow from the Fresh Master.
 - Doing so can result in imperfect combustion of the burner.
- The microcomputer functions in the following cases:
 The intake fan is not moving at the set speed.
 Intake fan stops to prevent any cool air from escaping during the defrosting operation.

3.2.4. Temperature adjustment

GUF-50, 100RDH3 are OA processing unit and cannot adjust the indoor temperature, even if the procedures given below are followed. In the case of GUF-50, 100RD3, the indoor temperature can be adjusted.

Set temperature display Room temperature display



To change temperature

Press the temperature button and set the temperature of your choice

Pressing \triangle or ∇ once changes the setting by 1°C. If the pressing is continued, the setting continues to change by 1°C.

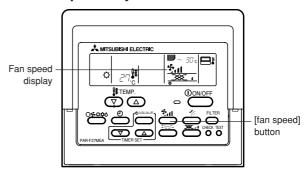
· Indoor temperature can be set within the following range.

Cooling/dry 19 to 30°C
Heating 17 to 28°C

In the case of GUF-50, 100RDH3, set the temperature the same as the indoor unit.

- It is impossible to set the temperature in fan operation.
- * The range of temperature display is 8° to 39°C. Outside this range, the display flashes either 8° to 39°C to inform you if the temperature is lower or higher than the displayed temperature.

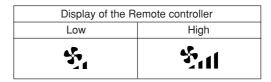
3.2.5. Fan speed adjustment



To change fan speed

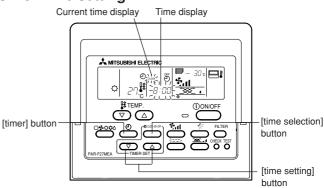
Set the desired fan speed

Every time you press the [fan speed] button once, it switches from the low-speed or high-speed settings altenatively.



Every time the fan speed adjustment button is once pressed, the fan speed is changed.

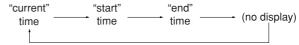
3.2.6. Time setting



- Set the current time after turning ON the power of the Fresh Master or after restoration from a power failure.
- It can be set regardless of the operation of the Fresh Master.
- During the time operation, the time-setting button becomes void, disabling time setting.

Press the [time selection] button and bring up the "current time" display

Every time it is pressed, the display changes.



⚠ Caution:

When the current time is not yet set, the "current" time display flashes, disabling the setting of timer operation.

Set the current time by pressing the time setting o or o button

- The time cannot be set while the "[timer]" is displayed.

- The setting advances one minute every time the button is pressed, and goes back one minute every time the button is pressed.
 - When respective \(\begin{align*} \sqrt{\nabla} \end{align*} \) buttons are pressed continuously, the time display goes fast forward. It advances in the order of 1 minute digit 10 minute digit one hour digit.
- About 10 seconds after the button operation has been completed, the "current time" and "time" displays disappear.

⚠Caution:

- The Remote controller is equipped with a simplified clock with a precision of about + or - one minute per month.
- The time must be readjusted (reset) every time the Fresh Master is subjected to a power stop or a power failure.

3.2.7. Timer setting

- If the timer is set, the unit starts (stops) at the set time, and the time mode is terminated.
- When you wish to confirm the starting and ending time, press the [time selection] button while [timer] is displayed.

Function of timer

On-timer

Set the on-timer for the time the working day begins in your company. When the set start time arrives, the Fresh Master starts operation.

Off-timer

Use the off-timer as a reminder to turn off the Fresh Master. When the set end-work time arrives, the Fresh Master stops operation.

There are three methods for using the timer.

1. ON/OFF Timer When setting both starting and ending time

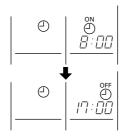
2. On-timer When only setting the starting time

(Ending time is set to "__ : __ ")

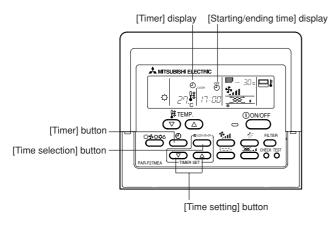
3. Off-timer When only setting the ending time

(Starting time is set to "__ : __ ")

Display example of timer setting



The example shows a timer set for operation start at 8:00 and end at 17:00.



- 1 Press the [timer] button and erase the "timer" display
- 2 Press the [time selection] button and bring up the "starting time" display
- 3 Press the △ (▽) button of the [time setting] and set the starting time

When using it as an off-timer, set the starting time to "__ : __ ".

The "__ : __ " is displayed next to the time i.e. 23:50.

- 4 Press the [time selection] button and bring up the "ending time" display
- 5 Press the △ (▽) button of the [time setting] and set the ending time

When using it as an on-timer, set the ending time to "__:_". The "__:_" is displayed next to the time i.e. 23:50.

6 Press the [timer] button and bring up the "timer" display Bringing up the [timer] display completes the setting.

Every time the () button of the [timer setting] is pressed once, it advances (or goes back) by 10 minutes.

If the button is pressed continuously, it advances (or goes back) continuously.

First set the hour digit and then set the minute digit.

When the ON/OFF timer mode is set, you can run (on-timer) or stop (off-timer) operation by pressing the [ON/OFF] button even when there is remaining time.

Release

Press the [timer] button and erase the "timer" display.

4. Cleaning the machine

To prevent decline in the Lossnay performance, clean the air filter and Lossnay core, as well as replace the high efficiency filters.

(Air filter: clean at least once a year)

(Lossnay core: clean at least once every 2 years)

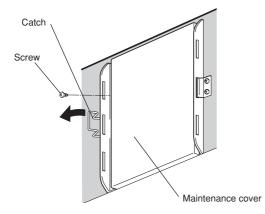
(High efficiency filters: replace every 3,000 hours (approx.))

⚠ Caution:

- Before you start cleaning, stop operation and turn OFF the power supply. Remember that the fan is rotating inside at high speed, posing a serious risk of injury.
- · Always wear gloves when cleaning the unit.
- Maintenance work should only be performed by someone who has received the necessary training.

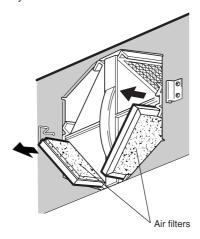
1. How to remove each part

- (1) Remove the screw (one piece) left side of the Maintenance cover.
- (2) Pull back the hinges, open the Maintenance cover and disengage the cover from the catches.

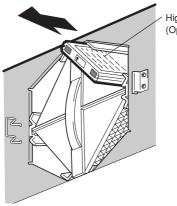


⚠ Caution: The Maintenance cover must be removed.

(3) Draw out the air filters which are located at the bottom left and right of the Lossnay cores.

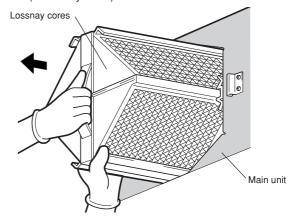


(4) Remove the high efficiency filters (Optional parts) from the upper right side of the Lossnay cores (2 units).



High efficiency filters (Optional part)

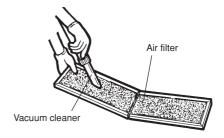
(5) Take hold of the handle and draw the Lossnay cores out from the main unit. (2 Lossnay cores)



2. How to clean

(1) Air filters

 Use a vacuum cleaner to suck up the dust. To remove stubborn dirt, dissolve some neutral detergent in cold or lukewarm water, wash the filters by pressing on them in the water, take them out and leave them to dry.

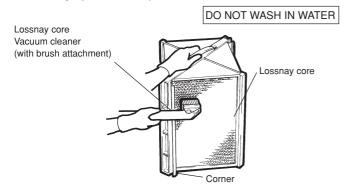


⚠ Caution:

- Never wash the filters in very hot water of 40°C or hotter and never wash them by rubbing them.
- Do not dry the filters by exposing them to a flame.

(2) Lossnay core

Use a vacuum cleaner to suck up the dust and dirt on the exposed surfaces of the Lossnay cores. Attach a nozzle with a brush to the vacuum cleaner for this job, and clean the cores by passing the brush lightly over their exposed surfaces.



⚠ Caution:

- Do not use the hard nozzle of the vacuum cleaner.
 If may damage the exposed surfaces of the Lossnay cores.
- Under no circumstances should the Lossnay cores be washed in water.
- (3) High efficiency filters (Optional parts)

The high efficiency filters cannot be reused. Always replace with new filters. For details, consult your dealer.

3. Assembly after cleaning

Bearing in mind the following points, assemble the parts following the sequence for their removal in reverse.

- · Install the air filters so that they are on the Lossnay core side.
- When installing the air filters, take care not to damage the exposed surfaces of the Lossnay cores.

5. Inspection and Maintenance

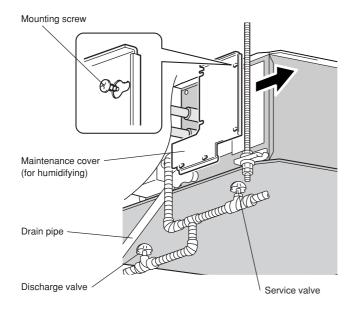
If the unit is to be used for prolonged periods of time, please have the following items inspected by an authorized service office at intervals of about once a year.

Be sure to turn off the breaker of the distribution board before conducting maintenance or inspection.

	Description of n	Possible consequence			
Part to be inspected	Inspection item	Action to take	maintenance is not conducted		
Strainer	Inspect for dust clogging.	Remove and clean the dust if clogged.	Unable to humidify		
	Inspect for cracks in O-rings.	Replace the O-rings if cracked. *Note 1	Water leakage		
Humidifying elements	Inspect for water leakage from the surface of each of humidifying element.	Replace the humidifying element if water spurts from its surface. *Note 2	Water leakage		
	Inspect for dust and particles on the surface of each humidifying element.	If the air pathway is covered by dust or particles, carefully clean it using a vacuum cleaner, or wash it with water by referring to the cleaning procedure on page 12.	Reduced airflow Reduced humidifying power		

^{*} Note 1: Replacement O-rings: Commercially available O-rings P22A and P20

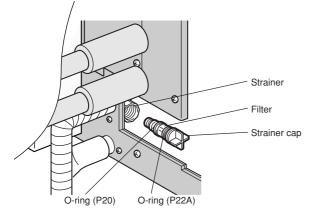
Preparation before cleaning



- Close the service valve to prevent residual water from spattering.
- 2. Take a countermeasure against water leakage.
 - Water inside the humidifying elements will leak. Place a vinyl sheet in the ceiling or take another countermeasure to prevent water leakage.
- 3. Drain the residual water from the pipe.
 - Place a bucket or other container under the discharge valve and open the valve to collect the residual water in the pipe.
- 4. Remove the maintenance cover (for humidifying).
 - Remove the seven mounting screws, slide the maintenance cover to the right, and remove it from the potbelly-shaped holes (six locations for the GUF-50RDH3).

^{*} Note 2: A small amount of water may form through dew condensation, but it is not abnormal.

How to clean the strainer (filter)

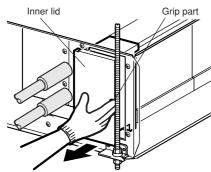


- 1. Rotate the strainer cap anticlockwise and remove it.
- 2. Use water to wash off any dirt adhering to the filter.
- 3. Replace the strainer cap.

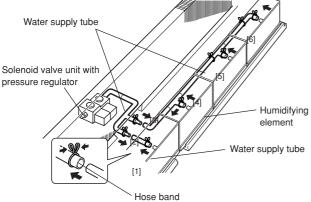
How to remove the humidifying elements

The heat exchanger is located on the left side, and the hanging bolt is located on the right side. Swing the rear side of each of the humidifying elements to the right, and take out the humidifying element while making sure not to touch the heat exchanger or the hanging bolt.

1. Remove the inner lid.



- Place your fingers on the grip part and pull the inner lid forward.
- 2. Holding both ends with your hands, pull the inner lid forward.
- Remove the water supply tube from the humidifying element.

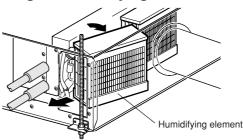


Holding the hose bands indicated by [1] to [6] with your fingers, remove the water supply tubes. Referring to the procedure entitled "removing the humidifying elements" below, remove the water supply tube at the rear while taking out the front humidifying element.

⚠ Caution:

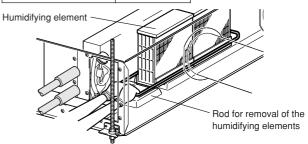
- To remove the water supply tube, hold and slide the hose bands and remove the water supply tube.
- Do not remove the water supply tube from the solenoid valve unit with a pressure regulator.
- When removing the water supply tube, be sure that water is collected on the drain tray inside the main unit.

3. Removing the humidifying elements



 Pull the first humidifying element forward, swing the rear side of the humidifying element to the right, lift it upward, and then pull it out diagonally.

Model name	Quantity
GUF-50RDH3	2
GUF-100RDH3	4

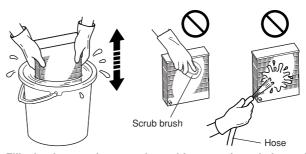


For the third and subsequent humidifying elements, pull the rod for removal of the humidifying elements forward until you can reach an element with your hands, and then pull it out (GUF-100RDH3).

⚠ Caution:

- Do not separate the rod for removal of the humidifying elements from the product.
- Take out the water supply tube together with the humidifying element. (Collect the residual water in the humidifying element using the drain tray.)
- · Do not bend or stretch the water supply tubes.

How to wash the humidifying elements with water

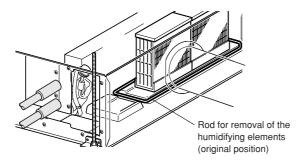


Fill a bucket or other container with water, then shake each humidifying element four to five times up and down in the water to wash out any dust and particles.

<u></u> Caution:

- Do not use a scrub brush to clean the humidifying elements.
- Do not hose off the humidifying elements. Doing do so will damage them.
- Do not use hot water of 40°C or hotter, nor use detergents, to clean the humidifying elements.

How to install the humidifying elements



Install the humidifying elements in the reverse order of their removal.

- For the GUF-100RDH3, return the rod for removal of the humidifying elements to its original position, and then insert the humidifying elements.
- Securely connect the water supply tubes and make sure there is no water leakage.

Check after inspection

- 1. Open the service valve as necessary.
 - Since humidification is not needed during the summer, it is recommended that the service valve be closed.
- During the winter, the season requiring humidification, make sure that the power to the heater for prevention of freezing is on.
- 3. Conduct a test and confirm that there is no water leakage.

6. Troubleshooting

Before you ask for repair service, check the following points:

State of Machine	Remote Controller	Cause	Troubleshooting			
	"●" display is not lit up No display appears	Power failure	Press the [ON/OFF] button after power restoration.			
It does not run.	even when the [ON/ OFF] button is	The power supply is turned OFF.	Turn the power supply ON.			
	pressed.	The fuse in the power supply is gone.	Replace fuse.			
		The earth leakage breaker is gone.	Put in the earth leakage breaker.			
Cool air or warm air does not come out.	The liquid crystal display shows that it is in operation.	The restart-preventing circuit is in operation for 3 minutes.	Wait for a while. (To protect the compressor, a 3-minute restart-preventing circuit is built into the Fresh Master. Therefore, there are occasions sometimes when the compressor does not start running immediately. There are cases when it does not run for as long as 3 minutes.)			
		Fresh Master operation is started during the heating and defrosting operation.	Wait for a while. (Heating operation starts after ending defrosting operation.)			
It runs briefly, but soon stops.	The "check" and check code flashes	There are some obstacles at the air inlet and outlet of the Fresh Master and outdoor unit.	Rerun after removal			
	on the liquid crystal display.	The filters are filled with dust and dirt.	Rerun after cleaning the filters. (Refer to page 10 [Cleaning for the machine].)			
Do not humidify (GUF-50,		The Fresh Master is not set to the "heating" mode.	Set to the "heating" mode.			
100RDH3 only)		Water is not supplied.	Open the service valve.			

If operation stops due to a power failure, the [restart-preventing circuit at power failure] functions and disables operation, even after power restoration. In this case, press the [ON/OFF] button again and start operation.

If malfunctions persist after you have checked the above, turn the power supply OFF and contact your dealer with information about the product name, the nature of the malfunction, etc. If the display of "[check]" and (4 digit) check code flashes, tell the dealer contents of the display (check code). Never attempt to repair by yourself.

The following symptoms are not the Fresh Master failures:

- The air blown out from the Fresh Master can sometimes give off odours. This is due to cigarette smoke contained in the air of the room, the smell of cosmetics, the walls, furniture, etc., absorbed in the Fresh Master.
- A hissing noise can be heard immediately after the Fresh Master is started or stopped. This is the sound of the refrigeration flowing inside the
 Fresh Master. The problem is insignificant.
- The Fresh Master sometimes snaps or clicks at the beginning or end of cooling/heating operation. This is the sound of friction on the metal sections due to inflation and contraction caused by temperature change. The problem is insignificant.
- It is recommended that the air blown out from the Fresh Master be directed to the air conditioner first and then directed into the room. However,
 the air may be directed from the Fresh Master to the room without going through the air conditioner. In this air-blowing method, cold air blows out
 during heating operation in the cases listed below. In that case, please change the air-blowing method.
 - At the start of an operation
 - When an operation is restarted immediately after an operation has been stopped (within 3 minutes)
 - · During a defrosting operation of the outdoor unit

7. Installation and transferring works, and checking

Regarding place for installation

Consult with your dealer for details on installation and transferring the installation.

⚠Caution:

Never install the Fresh Master where there is a risk of leakage of flammable gas.

If gas leaks and accumulates around the unit, fire can result.

Never install the Fresh Master at the following place:

- · where there is much machine oil
- · near ocean and beach areas where there is much salt
- · where humidity is high
- · where there are hot springs nearby
- · where there is much sulfureted gas
- where there is a high-frequency processing machinery (a high-frequency welder, etc.)
- · where acid solution is frequently used
- · where special sprays are frequently used
- Install the Fresh Master horizontally. Otherwise, water leakage can result
- Take sufficient measures against noise when installing the Fresh Master at hospitals or communication-related businesses.

If the Fresh Master is used in any of the above-mentioned environments, frequent operational failure can be expected. It is advisable to avoid these types of installation sites.

For further details, consult with your dealer.

Regarding electrical work

⚠ Caution:

- The electrical work must be undertaken by a person who is qualified as an electric engineer according to the [technical standard respecting electrical installation], [internal wiring rules], and the installation instruction manual with the absolute use of exclusive circuits. The use of other products with the power source can result in burnt-out beakers and fuses.
- Never connect the grounding wire to a gas pipe, water pipe, arrester, or telephone grounding wire. For details, consult with your dealer.

 In some types of installation sites, the installation of an earth leakage breaker is mandatory. For details, consult with your dealer.

Regarding transfer of installation

When removing and reinstalling the Fresh Master when you enlarge your home, remodel, or move, consult with your dealer in advance to ascertain the cost of the professional engineering work required for transferring the installation.

↑ Caution:

When moving or reinstalling the Fresh Master, consult with your dealer. Defective installation can result in electric shock, fire, etc.

Regarding noise

- In installing work, choose a place that can fully bear the weight of the Fresh Master and outdoor unit, and where noise and vibration can be reduced
- Choose a place where cool or warm air and noise from the outdoor unit's air outlet do not inconvenience the neighbors.
- If any alien object is placed near the outdoor unit's air outlet, decreased performance and increased noise can result. Avoid placing any obstacles adjacent to the air outlet.
- If the Fresh Master or outdoor unit produces any abnormal sound, consult with your dealer.

Maintenance and inspection

 If the Fresh Master and outdoor unit is used throughout several seasons, the insides can get dirty, reducing the performance.
 Depending upon the conditions of usage, foul odours can be generated and drainage can deteriorate due to dust and dirt, etc.

Time to change the humidifying element(GUF-50-100RDH3only)

Because impurities and contamination in tap water accumulate on the humidifying element, the humidifying power of the humidifying element decreases gradually.

- If the humidifying power decreases in the course of use, please consider changing the humidifying element (chargeable to the customer).
- Although the time to change the humidifying element varies depending on the conditions such as the operating time and water quality, it should generally be changed at every five years.

8. Specifications

Model name	Power supply (V)	Frequency (Hz)	Current (A)	Power consumption (W)	Air volume		External air load heat processing capability (kw)					Equivalent	
							Cooling	Heating	Humidifying volume	Noise (dB)	Weight (kg)	indoor unit capability	
					m³/h	L/S	capability	capability					
GUF- 50RDH3			1.15	235-265	500	139	5.29 (1.66)	6.42 (2.25)	2.70	33.5-34.5	57	P32	
GUF- 100RDH3	Single- phase	1 -	50	2.20	480-505	1,000	278	10.81 (3.49)	13.00 (4.70)	5.40	38-39	98	P63
GUF- 50RD3	220-240	50	1.15	235-265	500	139	5.29 (1.66)	6.42 (2.25)	_	33.5-34.5	54	P32	
GUF- 100RD3			2.20	480-505	1,000	278	10.81 (3.49)	13.00 (4.70)	_	38-39	92	P63	

- The values given in the table for the noise level reflect the levels measured at a position 1.5 meters immediately below the unit in an anechoic chamber.
- The noise at the air outlets (at a 45° angle, 1.5 meters in front) is about 5-6 dB (A) higher than the values given in the table.
- · The above values apply during Lossnay ventilation when the fan speed is set to high speed.
- * Capacity in () is heat recovery capacity by Lossnay core.

Cooling/Heating capacity indicates the maximum value at operation under the following condition.

Cooling: Indoor: 27°C DB/19.5°C WB Outdoor: 35°C DB/24°C WB Heating: Indoor: 21°C DB/14.6°C WB Outdoor: 7°C DB/6°C WB

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