TOSHIBA

HOT WATER MODULE (MULTI TYPE) Owner's Manual

Indoor Unit

Model name:

<Mid temperature Hot Water Module>

MMW-UP0271LQ-E

MMW-UP0561LQ-E

R32 or R410A

For commercial use

Original instruction

Thank you very much for purchasing TOSHIBA Hot Water Module.

- Please read this owner's manual carefully before using your Hot Water Module.

 Be sure to obtain the "Owner's manual" and "Installation manual" from constructor (or dealer).
- Also read the installation manual that come with the outdoor unit and optional parts.

Request to constructor or dealer

- · Please clearly explain the contents of the Owner's manual and hand over it.
- Please ask user to keep the Owner's manual in a safe place for future reference.

ADOPTION OF R32 or R410A REFRIGERANT

Hot Water Module adopts a HFC refrigerant (R32 or R410A) in order to prevent destruction of the ozone layer. Be sure to check the refrigerant type for outdoor unit to be combined, and then install it.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

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Please read carefully through these instructions that contain important information, and ensure that you understand them.

Generic Denomination: Hot Water Module

Definition of Qualified Installer or Qualified Service Person

The hot water module must be installed, maintained, repaired and removed by a qualified installer or qualified service person. When any of these jobs is to be done, ask a qualified installer or qualified service person to do them.

A qualified installer or qualified service person is an agent who has the qualifications and knowledge described in the table below.

| Agent | Qualifications and knowledge which the agent must have |
|----------------------------------|---|
| Qualified installer (*1) | The qualified installer is a person who installs, maintains, relocates and removes the air conditioners (including the hot water modules) made by Carrier Japan Corporation. He or she has been trained to install, maintain, relocate and remove the air conditioners (including the hot water modules) made by Carrier Japan Corporation or, alternatively, he or she has been instructed in such operations by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to these operations. The qualified installer who is allowed to do the electrical work involved in installation, relocation and removal has the qualifications pertaining to this electrical work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to electrical work on the air conditioners (including the hot water modules) made by Carrier Japan Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work. The qualified installer who is allowed to do the refrigerant handling and piping work involved in installation, relocation and removal has the qualifications pertaining to this refrigerant handling and piping work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to refrigerant handling and piping work on the air conditioners (including the hot water modules) made by Carrier Japan Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work. The qualified installer who is allowed to work at heights has been trained in matters relating to working at heights with the air conditioners (including the hot water modules) made by Carrier Japan Corporation or, alternatively, he or she has been instructe |
| Qualified service person (*1) | The qualified service person is a person who installs, repairs, maintains, relocates and removes the air conditioners (including the hot water modules) made by Carrier Japan Corporation. He or she has been trained to install, repair, maintain, relocate and remove the air conditioners (including the hot water modules) made by Carrier Japan Corporation or, alternatively, he or she has been instructed in such operations by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to these operations. The qualified service person who is allowed to do the electrical work involved in installation, repair, relocation and removal has the qualifications pertaining to this electrical work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to electrical work on the air conditioners (including the hot water modules) made by Carrier Japan Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work. The qualified service person who is allowed to do the refrigerant handling and piping work involved in installation, repair, relocation and removal has the qualifications pertaining to this refrigerant handling and piping work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to refrigerant handling and piping work on the air conditioners (including the hot water modules) made by Carrier Japan Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work. The qualified service person who is allowed to work at heights has been instructed in such matters pain individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge relat |

These safety cautions describe important matters concerning safety to prevent injury to users or other people and damages to property. Please read through this manual after understanding the contents below (meanings of indications), and be sure to follow the description.

| Indication | Meaning of Indication | |
|----------------|---|--|
| WARNING | Text set off in this manner indicates that failure to adhere to the directions in the warning could result in serious bodily harm (1) or loss of life if the product is handled improperly. | |
| CAUTION | Text set off in this manner indicates that failure to adhere to the directions in the caution could result in slight injury (2) or damage (3) to property if the product is handled improperly. | |
| | Serious bodily harm indicates loss of eyesight, injury, burns, electric shock, bone fracture, poisoning, and other injuries which leave aftereffect and require hospitalization or long-term treatment as an outpatient. Slight injury indicates injury, burns, electric shock, and other injuries which do not require hospitalization or long-term treatment as an outpatient. Damage to property indicates damage extending to buildings, household effects, domestic livestock, and pets. | |

■Warning indications on the hot water module

| Warning indication | | Description |
|--------------------|---|---|
| | WARNING | WARNING |
| | ELECTRICAL SHOCK HAZARD Disconnect all remote electric power supplies before servicing. | ELECTRICAL SHOCK HAZARD Disconnect all remote electric power supplies before servicing. |

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1 Precautions for safety

The manufacturer shall not assume any liability for the damage caused by not observing the description of this manual.

↑ WARNING

General

- Carefully read Owner's Manual before starting the hot water module. There are many important things to keep in mind for daily operation.
- Ask for installation to be performed by the dealer or a professional.
 Only a qualified installer (*1) is able to install a hot water module. If a non-qualified person installs a hot water module, it may result in problems such as fire, electric shock, injury, water leakage, noise and vibration.
- Do not use any refrigerant different from the one specified for complement or replacement.
 Otherwise, abnormally high pressure may be generated in the refrigeration cycle, which may result in a failure or explosion of the product or an injury to your body.
- This appliance is intended to be used by expert or trained users in shops, in light industry, or for commercial use by lay persons.

Installation

- Only a qualified installer (*1) or qualified service person (*1) is allowed to carry out the electrical work of the hot water module. Under no circumstances must this work be done by an unqualified individual since failure to carry out the work properly may result in electric shocks and/or electrical leaks.
- After the installation work has been completed, have the installer explain about the circuit breaker positions. In the event that trouble has occurred in the hot water module, set the circuit breaker to the OFF position, and contact a service person.
- If you install the unit in a small room, take appropriate measures to prevent the refrigerant from exceeding the limit concentration even if it leaks. Consult the dealer from whom you purchased the hot water module when you implement the measures. Accumulation of highly concentrated refrigerant may cause an oxygen deficiency accident.
- Do not install the hot water module in a location that may be subject to a risk of expire to a combustible gas. If a combustible gas leaks and becomes concentrated around the unit, a fire may occur.

- Be sure to use the company-specified products for the separately purchased parts. Use of non-specified products may result in fire, electric shock, water leakage, etc. Have the installation performed by a professional.
- Confirm that earthing is performed correctly.

Operation

- Inside the air conditioner and the hot water module are high-voltage areas and rotating parts. Due to the danger of electric shocks or of your fingers or physical objects becoming trapped in the rotating parts, do not remove the front panel of the hot water module or service panel of the outdoor unit. When work involving the removal of these parts is required, contact a qualified installer or a qualified service person.
- Do not move or repair any unit by yourself. Since there is high voltage inside the unit, you may get electric shock when removing the cover and main unit.
- Do not touch the plate heat exchanger of the unit. You may injure yourself if you do so. If the plate heat exchanger must be touched, do not touch it yourself but contact a qualified installer or a qualified service person.
- Do not climb onto or place objects on top of the outdoor unit. You may fall or the objects may fall off of the outdoor unit and result in injury.
- When the hot water module is operated with a combustion appliance in the same place, be careful of ventilation to let fresh air enter the room. Poor ventilation causes oxygen shortage.
- When the hot water module is used in a closed room, be careful of sufficient ventilation of the room. Poor ventilation causes oxygen shortage.
- Consult the shop where you purchased the hot water module if water heating is not performed properly as a refrigerant leakage may be the cause. Confirm the repair details with a qualified service person (*1) when the repair includes additional charging of the refrigerant.

Repairs

 When you have noticed that some kind of error (such as when a check display has appeared, there is a smell of burning, abnormal sounds are heard, the hot water module fails heat or water is leaking) has occurred in the hot water module, do not touch the hot water module yourself but set the circuit breaker to the OFF position, and contact a qualified service person. Take steps to ensure that the power will not be turned on (by marking "out of service" near the circuit breaker, for instance) until qualified service person arrives. Continuing to use the hot water module in the error status may cause mechanical problems to escalate or result in electric shocks, etc.

- If you have discovered that the fan grille is damaged, do not approach
 the outdoor unit but set the circuit breaker to the OFF position, and
 contact a qualified service person to have the repairs done. Do not set
 the circuit breaker to the ON position until the repairs are completed.
- If you have discovered that there is a danger of the outdoor and the hot water module unit's toppling over, do not approach the outdoor and the hot water units but set the circuit breaker to the OFF position, and contact a qualified installer or a qualified service person to have the improvements or refitting done. Do not set the circuit breaker to the ON position until the improvements or refitting is completed.
- Do not customize the unit. Doing so may result in fire, electric shock, etc.

Relocation

When the hot water module is to be relocated, do not relocate it
yourself but contact a qualified installer or a qualified service person.
 Failure to relocate the hot water module properly may result in electric
shocks and/or a fire.

CAUTION

To disconnect the appliance form the main supply

• This appliance must be connected to the mains by means of a switch with a contact separation of at least **3 mm**.

Installation

- Certainly lay the drain hose for perfect draining. Bad drainage may cause flooding in the house and getting furniture wet.
- Make sure to connect the hot water module to an exclusive power supply of the rated voltage, otherwise the unit may break down or cause a fire.
- Confirm that the outdoor unit and the hot water module are fixed on the base. Otherwise, falling down of the units or other accidents may occur.

Operation

- Do not use this hot water module for special purpose such as preserving food, precision instruments, art objects, breeding animals, car, vessel, etc.
- Do not touch any switches with wet finger, otherwise you may get an electric shock.
- If the air conditioner system (including hot water module) will not be used for a considerably long time, turn off the main switch or the circuit breaker, for safety.
- To make the hot water module operate in its original performance, operate it within the range of the operating temperature specified in the instructions. Otherwise it may cause a malfunction, or water leak from the unit.
- Prevent any liquid from falling into the remote controller. Do not spill juice, water or any kind of liquid.
- Do not wash the hot water module. Doing so may result in electric shock.
- Check whether the installation base and other equipment have become deteriorated after being used for a long time. Leaving them such condition may result in the unit's falling down and causing injury.
- Do not leave flammable sprays or other flammable materials near the hot water module, and do not spray flammable aerosol directly to the hot water module. They may catch fire.

^(*1) Refer to the "Definition of Qualified Installer or Qualified Service Person."

- Ask for cleaning of the hot water module to be performed by the dealer.
- Cleaning the hot water module in an improper manner may cause insulation failure of electric parts, etc. and result in a malfunction. In the worst case, it may result in water leakage, electric shock, smoke emission and fire.
- Do not put a water container such as a vase on the unit.
 Water intrusion into the unit may occur and it may cause deterioration of electric insulation and result in electric shock.

Note:

Before you run the compressor, always confirm that the hot water module is operable (power on, address fixed, communication wiring complete).

Failure to do this will cause the heat exchanger in the hot water module to freeze, rupture, and leak water.

Precautions for using R32 refrigerant

These safety cautions describe important matters concerning safety to prevent injury to users or other people and damages to property. Please read through this manual after understanding the contents below (meanings of indications), and be sure to follow the description;

Meanings of symbols displayed on the unit

| | WARNING (Risk of fire) | This mark is for R32 refrigerant only. Refrigerant type is written on nameplate of outdoor unit. In case that refrigerant type is R32, this unit uses a flammable refrigerant. If refrigerant leaks and comes in contact with fire or heating part, it will create harmful gas and there is risk of fire. | |
|-----|---|---|--|
| | Read the OWNER'S MANUAL carefully before operation. | | |
| | Service personnel are required to carefully read the OWNER'S MANUAL and INSTALLATION MANUAL before operation. | | |
| []i | Further information is available in the OWNER'S MANUAL, INSTALLATION MANUAL, and the like. | | |

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MARNING

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources. (For example: open flames, an operating gas appliance or an operating electric heater.)
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.

CAUTION

- In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.
- When disposing of the product is used, be based on national regulations with properly processed.
- The servicing shall be performed only as recommended by the manufacturer.
- Where the appliance using flammable refrigerants is installed, Be aware that;
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- The appliance shall be stored in a room without continuously operating open flames (for example an operating gas appliance) and ignition sources (for example an operating electric heater).
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- This unit is equipped with electrically powered safety measures. To be effective, the unit must be electrically powered at all times after installation, other than when servicing.
- If you want to change the room layout, partitions, ventilation openings or ventilation equipment after installation, please consult your dealer.

■ Information on the transportation, handling and storage of the carton

Examples of indication on the carton

| Symbol | Description | Symbol | Description | Symbol | Description |
|----------|--------------|-----------|--|---------|---------------------------|
| Ť | Keep dry | | Do not drop | | Do not lay it |
| T | Fragile | 2 cartons | Stacking height (2 cartons can be stacked in this case) | | Handle with care |
| <u> </u> | This side up | | Do not step | | Do not drop |
| | | | Do not roll | + (+ | Do not clamp as indicated |



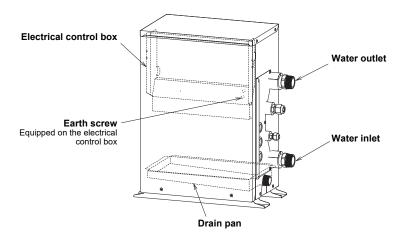
CAUTION

Injury possibility.

Don't handle with packing band, or may get injured in case of broken band.

2 Part names

■ Hot water module

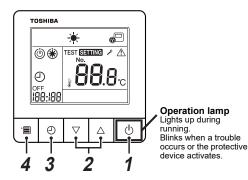


3 Part names and functions of the remote controller

3-1. Wired remote controller (RBC-ASCU1 *)

When operating the button, LCD backlight lights up for 15 seconds.

■ Operation section



1 ON/OFF button

Turns on the unit when pushed, and turns off when pushed again.

2 Setting button

For temperature setting.

3 OFF timer button

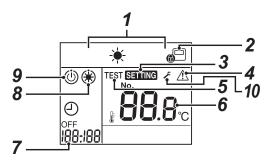
Set OFF timer.

4 Menu button

Heating mode is only available. Only heating symbol is displayed.

■ Display section

All icons on the display are shown for this explanation. Icons related to heating do not appear for cooling only models. Operations are not accepted when " SETTING" is flashing.



1 Operation mode indicator

Indicates the operation mode selected.

2 Central control indicator

Displayed when the air conditioner (including Hot water module) is controlled centrally and used with central control devices such as the central remote controller.

If the use of the remote controller is prohibited by the central control, blinks when the ON/OFF, Setting or Menu button on the remote controller is pushed, and the buttons do not function. (Settings that can be configured on the remote controller differ depending on the mode of the central control. For details, read the Owner's Manual of the central remote controller.)

3 Setting indicator

Indicates that the system is automatically checking after the circuit breaker is disconnected or other conditions have occurred.

4 Service indicator

Displayed while the protective device works or a check occurs.

5 Test run indicator

Displayed during a test run.

6 Temperature setting indicator

The selected set temperature is displayed.

7 OFF timer indicator

When a trouble occurs, the check code is displayed. In normal condition, the time for OFF timer is displayed.

8 Pre-heat indicator

Displayed when heating mode is activated or defrost cycle is started.

9 Operation standby indicator

This indication is available on some models.

10 Notice indicator

Displayed while notice code occurs. For details, contact your dealer (distributor).

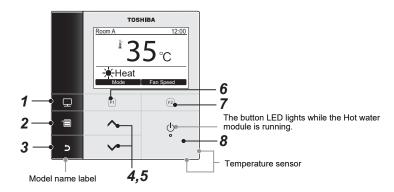
⚠ CAUTION

Remote sensor is not available for hot water module. When remote controller is connected to hot water module, the remote sensor does not work.

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3-2. Wired remote controller (RBC-AMSU5*)

Refer to Owner's Manual of RBC-AMSU51-* for the detailed operation method.



1 [MONITOR] button

Displays the monitoring screen.

2 [MENU] button

Displays the menu screen. For menu items, refer to following table.

3 [ET CANCEL] button

Functions as indicated on the screen, such as returning to the previous menu screen.

4 [^ ^] button

During normal operation: adjusts the temperature. On the menu screen: selects a menu item.

5 [V V] button
During normal operation: adjusts the tem

During normal operation: adjusts the temperature. On the menu screen: selects a menu item.

6 [🗈 F1] button

Varies its function according to the setting screen.

7 [2 F2] button

Varies its function according to the setting screen.

8 [**ON/OFF**] button

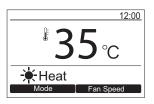
| | Menu items | Available function | No function |
|----|----------------------|--------------------|-------------|
| 1 | Wind Direction | | ✓ |
| 2 | Individual louver | | ✓ |
| 3 | Louver setting | | ✓ |
| 4 | Off reminder timer | √ | |
| 5 | Schedule timer | √ | |
| 6 | Night operation | | ✓ |
| 7 | Filter sign | | ✓ |
| 8 | Auto grille | | ✓ |
| 9 | Energy saving | | ✓ |
| 10 | Initial setting | | ✓ |
| 11 | Ventilation | | ✓ |
| 12 | Soft cooling setting | | ✓ |
| 13 | Occupancy sensor | | ✓ |
| 14 | Power consumption | | ✓ |
| 15 | Information | ✓ | |

Switching between the normal display and detailed display

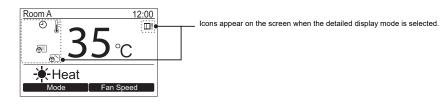
Push and hold the [CANCEL] button and [MONITOR] button at the same time for more than 4 seconds to switch the display mode.

The normal display mode is selected as a factory default setting.

Normal display mode (factory default)

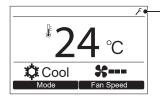


Detailed display mode



▼ Icon list

| 1 | Shows the central control device prohibits the use of the remote controller | 9 | Shows a timer function is activated. |
|----------|---|---|--------------------------------------|
| <u> </u> | Shows operation switching control is in progress. | | |



Notice code icon

 This icon appears on the display when a notice code has occurred. For details, contact your dealer (distributor).

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4 Basic operation

Follow the following steps when you use the hot water module or change settings first time.

From the next time, the hot water module can operate at selected settings only by pressing ON/OFF button.

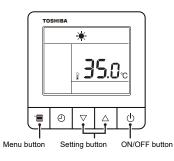
■ Preparation

Operations are not accepted when "SETTING" is blinking.

REQUIREMENT

- · Keep the power switch turned on during use.
- When you use the Hot water module again after not using for a long time, turn on the power switch at least 12 hours in advance.
- · The remote controller will not work until about 1 minute after the power is turned on. This is not a malfunction.

■ Running operation



3 Select the temperature

Push the setting button to adjust the temperature.

| Operation mode | Setting range | Factory default |
|----------------|---------------|-----------------|
| Heating | 25 to 50°C | 35°C |

1 ON/OFF button

Push the button to light up the operation lamp and start operations.

2 Select the operation mode

Switch to operation mode by pushing the menu button

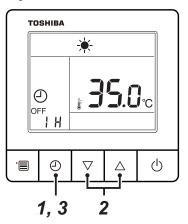
Only heating symbol is displayed. Only heating mode is available.



• If the button is not operated for 30 seconds, operation mode selection finishes.

5 OFF timer operation

OFF timer: the indoor unit stops running when the set time is reached.



1 OFF timer button

Push the OFF timer button when the Hot water module is running.

• ② and OFF turn on while SETTING and the timer indication icon flashes.

2 Selecting time for OFF timer

Push the setting button to set the time.

- Set up to 24 hours in increments of 0.5 hours (30 minutes), 1 hour, 2 hours....
- If the button is not operated for 30 seconds, the OFF timer setting is cancelled.

3 Push the OFF timer button

SETTING indication disappears, timing indication icon changes from flashing to turning on, and OFF timer starts

· When the OFF timer is operating, the timer indication is shown as a countdown.

■ Cancelling the timer

1 Push the OFF timer button

Timer indication icon disappears.

NOTE

During the operation of OFF timer, the OFF timer continues to operate even if the Hot water module is turned on or off by the ON/OFF button.

6 Installation

■ Location

- · Hot water module is allowed to install indoors.
- · Avoid installing near machines emitting high frequency waves
- Not suitable for chemical plants such as liquefied carbon dioxide refrigerant plants.
- Do not install the hot water module in locations where iron or other metal dust is present. If iron or other metal
 dust adheres to or collects on the interior of the hot water module, it may spontaneously combust and start a fire.
- · A failure may occur in certain locations such as the following:
- Areas with large amount of oil droplets (including machine oil) or vapors
- · Salty areas near oceans, etc.
- · Hot springs emitting sulfidizing gas, etc.
- · Heavily acidic or alkaline places.

Special maintenance or parts are required for use in the above places. For details, contact the dealer where you purchased the product.

- Leave an enough space around the air intake and discharge of the outdoor unit so that the ventilation is not restricted.
- Avoid places where strong wind may blow against the air intake and discharge of the outdoor unit.
- Attach a snow stand, snow hood, etc. to the outdoor unit for use in snowfall areas. For details, contact the dealer where you purchased the product.
- Make sure drain water from the outdoor unit and the hot water module are emitted into places with good drainage.
- Keep a distance of at least 1 m between the hot water module / remote controller and a TV or radio. Failure to
 observe this precaution may cause visual disturbance or noise.
- Leave a distance of at least 1.5 m between the hot water module and a fire alarm. If this precaution is not observed, the alarm may not work properly or detect fire in case of fire.
- When connecting to the outdoor unit of R32 refrigerant, floor area and ventilation specifications are stipulated by law to ensure safety. If you want to change the layout of the room, the partition, the ventilation port or the ventilation equipment, please consult your dealer.

■ Be careful of operation sounds

- · Locate the unit in a place secure enough so that the sounds and vibrations do not increase.
- · If something is placed near the air discharge of the outdoor unit, noise may increase.
- Be careful not to disturb your neighbors with cool / heat air or noise coming from the air discharge of the outdoor unit.
- Do not install the Hot water module in locations where the operation sound may cause a disturbance. (Especially at the boundary line with a neighbor, do not install the Hot water module in locations where considering the noise.)
- Location such as living rooms and bed rooms where you can easily be bothered by noise. Noise may become a
 problem.

7 Notes on operations and performance

⚠ CAUTION

This indoor unit is equipped with safety measures using a power source for R32 refrigerant. When combining with an outdoor unit of R32 refrigerant, this indoor unit must always be powered on after installation, except after service.

■ Check before operation

- Turn on the power switch at least 12 hours before starting operation.
- · Make sure the earth wire is securely connected.

■ Defrosting during heating

- If frost falls on the outdoor unit during heating, defrosting is automatically performed (for approximately 2 - 10 minutes) to increase the heating effect.
- The Hot water module keeps operating the pump during defrosting.
- The hot water module stops the compressor operation during defrosting.
 (For High temperature Hot water module type.)

■3-minute protection

The outdoor unit will not operate for approximately 3 minutes after the air conditioner (including hot water module) has been immediately restarted after stopping, or the power switch has been turned on. This is to protect the system.

■ Power failure

- · In the case of a power failure, all operations stop.
- · To resume operations, push the ON/OFF button.

■ Protective device (High pressure switch)

The high pressure switch stops the air conditioner (including hot water module) automatically when excessive load is applied to the air conditioner system. If the protective device activates, the unit's running stops and the operation lamp blinks.

When the protective device activates, the \nearrow indicator and the check code are displayed on the remote controller.

The protective device may activate in the following cases:

During cooling

- When the air intake or air discharge of the outdoor unit is blocked.
- When strong wind blows continuously against the air discharge of the outdoor unit.

During heating

- When dust or dirt is excessively adhered to the strainer (locally procured) of water pipe.
- · When the water flow rate is lower.

NOTE

When the protective device activates, turn off the power switch, remove the cause, and then restart running.

■ Cooling / Heating operations

<Heat pump>

Each unit can be controlled individually. However, indoor units connected to the same outdoor unit cannot perform cooling and heating simultaneously. When you attempt simultaneous operation, hot water module performing heating are stopped, and the running preparation indicator (i) is displayed on the remote controller.

An indoor unit performing cooling continues running. When you attempt an operation without the configured settings, the running preparation indicator (b) is displayed on the remote controller and operation stops. If operation is fixed to cooling or heating by the air conditioner administrator, only the configured settings apply to the operation.

<Connecting to SHRM series>

 If the Standard indoor unit is used at outside temperature out of the operating conditions, safety protection may operate, which may cause cooling or heating not to operate.

At that time, "* "Pre-heat indicator lights on the operation section.

■ Characteristics of heating

- When the outside temperature increases, the outdoor unit may stop.
- When the outside temperature increases, the hot water module can operate while other indoor units may not operate heating but can operate cooling. (For High temperature Hot Water Module type.)
- When indoor unit and Hot water module are simultaneously operated under the low outside temperature, operation start of the indoor unit may be delayed.

■ Characteristics of simultaneously heating or cooling (SHRM series)

• When the outside temperature lower during operation, the outdoor fan may stop.

8 Maintenance

↑ WARNING

For daily maintenance, make sure to ask the qualified service person particularly following models as the maintenance requires high-place work:

■ Cleaning the hot water module and remote controller

- Ask qualified service person to clean the hot water module for the models listed in the warning on the top of this chapter.
- · Wipe with a dry, soft cloth.
- Do not use benzine, thinner, scouring powder, chemical cloth, etc. as those may cause deformation or breakage.



■ If unused for over a month

 Before a long period of none use, purge the water out of the pipes and thoroughly let them dry. (The water in piping freezes in winter.)

■ Periodic inspection

- After being used for a long period of time, the parts may deteriorate or malfunction, or the drainage may worsen, due to heat, moisture, dust, or general usage.
- In addition to the maintenance, it is recommended that you have a inspection (charges apply) performed by the dealer where you purchased the unit, etc.

■ Before the operating season

Ask a qualified service person to clean the drain pan.



Clean the drain pan

Without cleaning, the drain pan may be filled with waste, and water may overflow onto the floor.

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Troubleshooting

When the following symptoms are found, check the points described below before asking repair servicing.

| Abnormal phenomenon Cause | | | | | |
|---------------------------|---|--|---|--|--|
| Abnormal phenomenon | | | - 1000 | | |
| | Outdoor unit | There is white misty cold air or water on the outside. | Fans of the outdoor unit automatically stop and the defrosting operation is performed. | | |
| | Cutacor unit | Sometimes a air leak is heard. | The solenoid valve operates when the defrosting operation begins or ends. | | |
| | | Sometimes rustling sound is heard. | When operation has started, or during operation, or after operation has stopped, sounds such as water flow can be heard, and the sound may become louder immediately 2 or 3 minutes after operation has started. These sounds are either the refrigerant flowing sound or the drainage sound of the dehumidifier. | | |
| Non-fault phenomenon | Hot water module | ・"侦" icon lights up | When heating operation cannot be performed because another indoor unit performs cooling operation. (Heat pump) Does the outdoor temperature exceed the operating temperature range? | | |
| t phen | | • " con lights up | It performs the opposite operation to the set operation when air conditioner or hot water module manager has fixed the operation to cooling or heating. | | |
| Non-faul | | Sound is output from the bracket via the hot water module. | Oil or refrigerant may be trapped due to temporary refrigerant flow and the sound of refrigerant flow may be heard when the hot water module is operating in heating mode. | | |
| | Pump, line heater | The pump and the line heater operate automatically during the hot water module standby. | When the water temperature drops or the outdoor unit starts running or the refrigerant (oil) returns to control, the pump and the line heater operate to protect the water heat exchanger from frost. | | |
| | | Ticking sound is heard when the hot water module is powered on. | When the power is on, sound is heard when the expansion valve is running. | | |
| | LCD blurs when it is touched. | | LCD may be temporarily blurred due to static electricity. | | |
| | Operates or stops automatically. | | Is the timer ON or OFF? | | |
| Need to check again | Not operating. | | Is it a power failure? Is the power switch OFF? Is the power supply fuse or circuit breaker blown? Has the protective device been operating? (Operation indicator is always on.) Is the timer ON? (Operation indicator is always on.) Are cooling and heating selected at the same time? (The "()" icon lights up on the display of the remote controller.) (Heat pump) Does the outside air temperature exceed the operating temperature range? The operation stops automatically (The "()" icon lights up on the display of the remote controller.) Does the water temperature at the inlet of hot water module become low? If the water temperature at the inlet of hot water module is low, hot water module may sometimes stop to prevent freezing. Are other indoor units connected to the same outdoor unit detecting the leakage of R32 refrigerant? (The "()" icon lights up on the display of the remote controller.) | | |
| | Is water temperature not enough? | | Is the water supply or drainage in water pipes blocked? Is the temperature on the display of the remote controller appropriate? Does the outdoor temperature exceed the operating temperature range? Do the indoor unit and the hot water module operate in heating mode at the same time? If the total operating load is too large, it may be difficult to fully heat up the water. | | |

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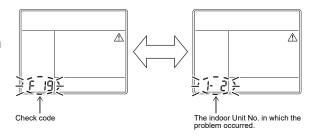
CAUTION

If any of the following conditions occur, turn off the main power supply switch and immediately contact the dealer:

- Switch operation does not work properly.
 The main power fuse often blows out, or the circuit breaker is often activated.
 A foreign matter or water fall inside the hot water module.
 When the hot water module does not operate even after the cause of the protective device activation has been appeared.
- · Any other unusual conditions are observed.

■ Confirmation and check

If a problem occurs with the air conditioner (including Hot water module), the OFF timer indicator alternately shows the check code and the indoor Unit No. in which the problem occurred.



■ Troubleshooting history and confirmation

You can check the troubleshooting history with the following procedure if a problem occurs with the air conditioner (including Hot water module).

(The troubleshooting history records up to 4 incidents.)

You can check it during operation or when operation is stopped.

• If you check the troubleshooting history during OFF timer operation, the OFF timer will be canceled.

| Procedure | Description of operation | | |
|-----------|--|-------------|--|
| 1 | Push the OFF timer button for over 10 seconds and the indicators appear as an image indicating the troubleshooting history mode has been entered. If [\(\nabla \) Service check] is displayed, the mode enters in the troubleshooting history mode. • [01: Order of troubleshooting history] appears in the temperature indicator. • The OFF timer indicator alternately shows the [check code] and the [indoor Unit No.] in which the problem occurred. | No. / A | |
| 2 | Each time the setting button is pushed, the recorded troubleshooting history is displayed in sequence. The troubleshooting history appears in order from [01] (newest) to [04] (oldest). CAUTION | TOSHIBA F A | |
| | In the troubleshooting history mode, DO NOT push the Menu button for over 10 seconds, doing so deletes the entire troubleshooting history of the indoor unit. | F 19 | |
| 3 | After you have finished checking, push the ON/OFF button to return to the regular mode. If the air conditioner (including Hot water module) is operating, it remains operated even after the ON/OFF button has been pushed. To stop its operation, push the ON/OFF button again. | | |

10 Specifications

| Model | Sound pressure level (dBA) Heating | Weight (kg) Main unit |
|----------------|------------------------------------|-----------------------|
| MMW-UP0271LQ-E | * | 17.8 |
| MMW-UP0561LQ-E | * | 20.3 |

^{*} Under 70 dBA

Hot water module operating conditions

For proper performance, operate the hot water module under the following temperature conditions:

| Heating operation | Outdoor temperature (Heat pump) | : -25°C to 19°C (Wet bulb temp.)* |
|-------------------|---|-----------------------------------|
| | Outdoor temperature (Heat recovery) | : -25°C to 28°C (Wet bulb temp.)* |
| | Outdoor temperature (MiNi-SMMS-e) (Heat pump) | : -20°C to 19°C (Wet bulb temp.) |
| | Water inlet temperature | : 15°C to below 50°C |
| Indoor atmosphere | Indoor temperature | : 5°C to 32°C (Dry bulb temp.) |
| | | : 24 or less (Wet bulb temp.) |
| | Indoor Relative humidity | : 30% to 85% |
| | Allowable dew point | : 23 or less (Wet bulb temp.) |
| ⚠CAUTION | Be careful of installation atmosphere. | |
| | It becomes a cause of failure of a product by dewing or freezing. | |

If hot water module is used outside of the above conditions, safety protection may operate.

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^{*} Low ambient heating (-20°C or less) for extended periods of time is not allowed.

Declaration of Conformity

Manufacturer: Carrier Japan Corporation

336 Tadehara, Fuji-shi, Shizuoka-ken 416-8521 JAPAN

TCF holder: Carrier RLC Europe S.A.S

Immeuble Le Cristalia 3 rue Joseph Monier

92500 Rueil-Malmaison FRANCE

Hereby declares that the machinery described below:

Generic Denomination: Hot Water Module

Model / type: MMW-UP0271LQ-E

MMW-UP0561LQ-E

Commercial name: Super Modular Multi System Air Conditioner

Super Heat Recovery Multi System Air Conditioner

Mini-Super Modular Multi System Air Conditioner (MiNi-SMMS series)

Complies with the provisions of the "Machinery Directive (Directive 2006 / 42 / EC)" and the regulations transposing into national law.

Name: Masaya Seito

Position: Senior Manager, Quality Assurance Dept.

Date: 1 May, 2024

Place Issued: Japan

NOTE

This declaration becomes invalid if technical or operational modifications are introduced without the manufacturer's consent.

Declaration of Conformity

Manufacturer: Carrier Japan Corporation

336 Tadehara, Fuji-shi, Shizuoka-ken 416-8521 JAPAN

TCF holder: Carrier Solutions UK Ltd.

Porsham Close, Belliver Industrial Estate,

PLYMOUTH, Devon, PL6 7DB, United Kingdom

Hereby declares that the machinery described below:

Generic Denomination: Hot Water Module

Model / type: MMW-UP0271LQ-E

MMW-UP0561LQ-E

Commercial name: Super Modular Multi System Air Conditioner

Super Heat Recovery Multi System Air Conditioner

Mini-Super Modular Multi System Air Conditioner (MiNi-SMMS series)

Complies with the provisions of the Supply of Machinery (Safety) Regulations 2008

Name: Masaya Seito

Position: Senior Manager, Quality Assurance Dept.

Date: 1 May, 2024 Place Issued: Japan

NOTE

This declaration becomes invalid if technical or operational modifications are introduced without the manufacturer's consent.



Carrier Japan Corporation

336 TADEHARA, FUJI-SHI, SHIZUOKA-KEN 416-8521 JAPAN

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