

TOSHIBA

Toshiba MMW-AP0271LQ-E Installation Manual

Hot water module (multi type)

1
Table Of Contents
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34

--

•

[Table of Contents](#)

-

Troubleshooting

•

Bookmarks

Quick Links

[1 Installation](#)

[Download this manual](#)

See also: [Service Manual](#) , [Owner's Manual](#)



HOT WATER MODULE (MULTI TYPE)

Installation Manual

Indoor Unit
For commercial use
Model name
Hot Water Module



MMW-AP0271LQ-E

MMW-AP0561LQ-E

Remote controller

RBC-AMT32E

RBC-AMS41E

TCB-CC163TLE2

TCB-SC642TLE2

TCB-EXS21TLE

ManualsLib.com

[Table of Contents](#)

[Next Page](#)

1
2
3
4
5

Related Manuals for Toshiba MMW-AP0271LQ-E

[Air Conditioner Toshiba MMW-AP0271LQ-E Service Manual](#)

Hot water module (108 pages)

[Water Heater Toshiba MMW-AP0271LQ-E Owner's Manual](#)

Hot water module (multi type) (13 pages)

[Water Heater Toshiba MMW-AP0271LQ-TR Installation Manual](#)

Hot water module (multi type) (68 pages)

[Water Heater Toshiba MMW-AP0481CHQ-E Manual](#)

Hot water module (33 pages)

[Water Heater Toshiba DSK ES Series Installation Instruction](#)

Electric water heater (12 pages)

Summary of Contents for Toshiba MMW-AP0271LQ-E

[Page 1: Installation Manual](#)

HOT WATER MODULE (MULTI TYPE) Installation Manual Indoor Unit For commercial use Model name: Hot Water Module MMW-AP0271LQ-E MMW-AP0561LQ-E Remote controller RBC-AMT32E RBC-AMS41E TCB-CC163TLE2 TCB-SC642TLE2 TCB-EXS21TLE English...

[Page 2: Table Of Contents](#)

- 1 - Original instruction Please read this Installation Manual carefully before installing the hot water module. • This Manual describes the installation method of the hot water module. • For installation of the outdoor unit, follow the Installation Manual attached to the outdoor unit. ADOPTION OF NEW REFRIGERANT This Hot Water Module uses R410A an environmentally friendly refrigerant.

[Page 3](#) • The qualified installer is a person who installs, maintains, relocates and removes the air conditioners (including the hot water modules) made by Toshiba Carrier Corporation. He or she has been trained to install, maintain, relocate and remove the air conditioners (including the hot water modules) made □...

[Page 4: Precautions For Safety](#)

- 3 - Precautions for safety • 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 for The manufacturer shall not assume any liability for the damage caused some reason, first put on protective gloves and safety work clothing, by not observing the description of this manual.

[Page 5](#) Installation • The charge hose must be connected in such a way that it is not slack. • Install the hot water module securely in a location where the base can Water piping sustain the weight adequately. If the strength is not enough, the unit •...

[Page 6](#) - 5 - Test run Relocation • Before operating the hot water module after having completed the • Only a qualified installer (*1) or qualified service person (*1) is work, check that the electrical parts box cover (the front panel) of the allowed to relocate the hot water module.

[Page 7: Accessory Parts](#)

Accessory parts Part name Shape Usage (Hand over to customers) Installation Manual This manual (For other languages that do not appear in this Installation Manual, please refer to the enclosed CD-R.) (Hand over to customers) Owner's Manual — (For other languages that do not appear in the Owner's Manual, please refer to the enclosed CD-R.) CD-ROM —...

[Page 8: System Control Of Hot Water Module](#)

Capacity code Hot water module model Equivalent to HP Equivalent to capacity MMW-AP0271LQ-E MMW-AP0561LQ-E The capacity code of the hot water module is different from the capacity code of the standard indoor unit. NOTE Compared with the capacity code of the outdoor unit, the total value of capacity codes of the connectable indoor units (including hot water module) differs based on the height difference between the indoor units (including hot water module).

[Page 9](#) ▼ Figure 1 HWM : Hot Water Module <Upper outdoor units> <Lower outdoor units> Header unit For hot water module connections, height difference restrictions between standard indoor units (H2), between HWM units (H4), and between standard indoor units and HWM units (H5) Standard indoor unit Standard...

[Page 10](#) - 9 - □ Example of Installation for Hot Water Module water piping NOTE • To install the hot water module, connect the pump and line heater. • Do not connect more than one hot water module to one pump and one line heater. •...

[Page 11](#) HWM : Hot Water Module Sample 2. Procured locally Auxiliary heat Air vent valve Isolating source valve Booster Heater For heating applications Strainer (Fan coils, radiators, under (30 to 40 floor) meshes) Line Heater Isolating Isolating Isolating Direct Buffer Tank valve valve...

[Page 12: Selection Of Installation Place](#)

- 11 - Selection of installation place CAUTION • Do not install hot water module in a place where water freezes. Avoid installing in the following places Select a location for the indoor unit where the cool or warm air will circulate evenly. •...

[Page 13: Installation](#)

Installation □ Installation atmosphere Installation atmosphere of the unit is as follows. Be careful of installation atmosphere. CAUTION It becomes a cause of failure of a product by dewing or freezing. Dry-bulb temp. (°C) 5 to 32 Strictly comply with the following rules to prevent damage of the hot Wet-bulb temp.

[Page 14](#) - 13 - □ External dimensions □ Fixing the hot water module 1. Fix the hot water module with M8 anchor bolts at 4 (Unit: mm) positions. 20 mm projection is appropriate for an to floor anchor bolt. (Unit: mm) WARNING 4-14×12 •...

[Page 15](#) REQUIREMENT • Fix the unit in a horizontal position. When unit is fixed to slant, it may cause overflow of drainage. • Install the unit within the dimension according to the figure below. • Use level gauge or vinyl hose to confirm whether the unit is fix horizontally. Front view Side view 0 to 5 mm...

[Page 16: Water Piping](#)

• Follow the table below to select a line heater (procured locally) within the range of 40 to 50 % of the hot water module's rated capacity. Hot water module model name Capacity of line heater (kW) MMW-AP0271LQ-E 3.2~4.0 MMW-AP0561LQ-E 6.4~8.0...

[Page 17](#) □ Characteristics of hot water module flow rate and pressure loss The following graph shows the range of flow rates used for the hot water module, and the characteristic pressure losses. Use this as an aid in the local pump procurement process. 027type 056type Min.

[Page 18: Drain Piping](#)

- 17 - Drain piping □ Connecting drain pipe Wrap some sealing tape around the screw part to avoid water leak. CAUTION REQUIREMENT • Following the Installation Manual, perform the drain piping work • Connect the hard vinyl chloride pipes certainly so that water does not leak by using adhesive agent for vinyl chloride.

[Page 19: Refrigerant Piping](#)

Refrigerant piping □ Heat insulating process • After drain check, covering the heat insulator for drain connecting section, wrap the drain pipe with heat insulator Projection margin in flaring: B (Unit: mm) CAUTION (Locally procured) without clearance from the end of the drain pipe

connecting port of the hot water module. Outer dia.

[Page 20: Electrical Connection](#)

- 19 - Electrical connection □ Heat insulation process • Use the tightening torque levels as listed in the table below. Apply heat insulation for the pipes separately at liquid • Use the cord clamps attached to Outer dia. of connecting WARNING Tightening torque (N•m) side and gas side.

[Page 21: Specifications](#)

▼ Power supply REQUIREMENT Power supply 220 V - 240 V ~, 50 Hz • For power supply wiring, strictly conform to the Local Power supply switch / circuit breaker or power supply wiring / fuse rating for hot water module should be selected by the Regulation in each country.

[Page 22](#) - 21 - □ Wiring between indoor (including hot water module) and outdoor HWM : Hot Water Module units Indoor unit Indoor unit Indoor unit Remote NOTE Correct controller wiring • An outdoor unit connected with control wiring between indoor (including hot water module) and outdoor units wire (Max.

[Page 23](#) □ Wire connection □ Remote controller wiring • Strip off approx. 9 mm the wire to be connected. REQUIREMENT ▼ Wiring diagram • Connect the wires matching the terminal numbers. Incorrect connection causes a trouble. • Pass the wires through the bushing of wire connection holes of the hot water module. Terminal block for remote controller wiring Terminal block...

[Page 24: Applicable Controls](#)

- 23 - Applicable controls ▼ Output function wire CAUTION □ Basic procedure for changing REQUIREMENT settings Output signal functions are separated from primary basic insulation. When the hot water module is used for the first time, it will take some moments after the power has been turned on Change the settings while the hot water module is not before the remote controller becomes available for •...

[Page 25: Test Run](#)

Test run □ Group control Each time button is pushed, hot water module numbers in the control group change cyclically. Select the hot water In a group control, a remote controller can control up to maximum 8 units. module to change settings for. □...

[Page 26: Maintenance](#)

- 25 - Maintenance Troubleshooting ▼ Periodic Maintenance □ Confirmation and check □ Confirmation of error log • For environmental conservation, it is strongly recommended that the indoor and outdoor units of the air conditioner (including hot water module) in use be cleaned and maintained regularly to ensure efficient operation When an error occurred in the hot water module, an When an error occurred on the hot water module, the of the air conditioner.

[Page 27](#) Check method On the wired remote controller, central control remote controller and the interface P.C. board of the outdoor unit (I/F), a check display LCD (Remote controller) or 7-segment display (on the outdoor interface P.C. board) to display the operation is provided.

[Page 28](#) - 27 - Check code Outdoor unit 7-segment display Check code name Judging device Wired remote controller display Auxiliary code 01:Comp. 1 side 02:Comp. 2 side TH sensor error IPDU 03:Comp. 3 side — Outdoor unit temp. sensor miscabling (TE, TL) —...

[Page 29](#) Check code Outdoor unit 7-segment display Check code name Judging device Wired remote controller display Auxiliary code — — Duplicated central control addresses AI-NET, Indoor unit Number of heat storage units connected Too many heat storage units connected Number of heat storage units connected Error in number of heat storage units connected —...

[Page 30](#) Batch alarm of general-purpose equipment control interface General-purpose equipment, I/F Differs according to error contents of unit with occurrence of alarm Group control follower unit error TCC-LINK — — Decrease of No. of indoor units TCC-LINK: TOSHIBA Carrier Communication Link. 57-EN 58-EN...

[Page 31: Specifications](#)

Specifications Sound power level (dBA) Model Weight (kg) Main unit Heating MMW-AP0271LQ-E
17.8 MMW-AP0561LQ-E 20.3 * Under 70 dBA 59-EN 60-EN - 30 -...

[Page 32](#) - 31 - Warnings on Refrigerant Leakage Important Check of Concentration Limit The room in which the air conditioner (including hot water module) is to be installed requires a design that 2) When there is an effective opening with the adjacent room for ventilation of leaking refrigerant gas (opening in the event of refrigerant gas leaking out, its concentration will not exceed a set limit.

[Page 33](#) 63-EN 64-EN - 32 -...

[Page 34](#) EH99897399...

This manual is also suitable for:

[Mmw-ap0561lq-e](#)