

**Revision** (TEXT HIGHLIGHTED RED)

**Key Features**

- New VRF Hot Water Heater
- Connectable to SMMSi 8 to 48HP
- Hot water production 25°C to 50°C
- 2 Units connectable to 1 system

**TOSHIBA** would like to announce the launch of the **New MMW-AP\*\*\*1LQ-E** series **VRF Hot Water Heater** indoor units for connection to **SMMSi 8 to 48HP** available for use with all outdoor units having a manufacturing production date from **May 2014** or later.

- Lightweight compact design
- Wide temperature usage
- -20°C to 19°C
- Hot water supply up to 45°C by heat pump and up to 50°C with locally supplied backup heater



(HP)		(kW)	Model Name		
2.5		8	MMW-AP0271LQ-E		
5		16	MMW-AP0561LQ-E		
For use <b>only</b> with <b>SMMSi 8 to 48HP</b> systems produced from <b>May 2014</b>					
Production from			Prior Production Not Applicable		
Year	Month	Sequence No.	Year	Month	Sequence No.
<b>4</b>	<b>25</b>	<b>00001</b>	<b>4</b>	<b>24</b>	<b>*****</b>
Month codes: January 21; February 22; March 23; April 24; May 25; June 26; July 27; August 28, September 29; October 30; November 31; December 32					

For further information please contact our customer support team on 0870 843 0333, your local representative, your supplier of **TOSHIBA** products or email any enquiries to: - [general.enquiries@toshiba-ac.com](mailto:general.enquiries@toshiba-ac.com)

SPECIFICATION			
Model	MMW-	AP0271LQ-E	AP0561LQ-E
Heating Capacity	(kW)	8.0	16.0
Water Flow rate	(l/s)	22.9	45.8
Water Flow Rate Limits	(l/s)	19.5 – 26.3	38.9 – 52.7
Water Pressure Drop	(Kpa)	40.5	44.2
Operating Temperature Range	(°C)	-20.0 to 19	
Operating Water Temperatures	(°C)	15 – 50 (By heat pump up to 45, with backup heater up to 50)	
Max. Connectable Indoor Units		2	
Refrigerant Connections Gas	(mm / ")	15.9 – 5/8	
Refrigerant Connections Liquid	(mm / ")	9.5 – 3/8	
Water Pipe Connection		R1-1/4	
System Diversity	(%)	70 – 115	
Max. HWM Connection Capacity	(%)	50	
Min. Indoor Unit Connection Capacity	(%)	65	
Dimensions Height / Width / Depth	(mm)	580 / 467 / 250	
Weight	(kg)	17.8	20.3
Power consumption	(kW)	0.014	
Power Supply		1ph / 50Hz / 230v	

### Operating Criteria

1. The Hot Water Heater has the ability to supply 50°C outlet water temperature, which can be used for the purpose of either Space Heating or Domestic Hot Water.
2. For all Space Heating applications, Toshiba would recommend the use of a buffer tank. As this will prevent continuous on/off operation of the Hot Water Heater.
3. For domestic hot water applications, the Hot Water Heater has been designed to be used within an unvented system via a coaxial heat exchanger. It is recommended that an electric heater be installed inside the domestic hot water tank, which is controlled externally to the Hot Water Heater. This will provide additional heating when the outdoor ambient temperature exceeds specification limits
4. An external controller (locally supplied) must be used to control any anti bacteria cycle, required on the domestic hot water system, requested by the end user.

### BMS Compatibility

In order to prevent potential problems it is recommended that you do not use the Hot Water Heater with BMS systems.

- The following scenarios explain the functionality with and without BMS connectivity:
  - 1 When you do not add the Hot Water Heater in the BMS Setting File:
    - ♦ All other Indoor units can be controlled by the BMS system.
    - ♦ The Hot Water Heater must be controlled only from the following
      - **RBC-AMT32E, RBC-AMS41E, TCB-CC163TLE2, TCB-SC642TLE2, TCB-EXS21TLE**
  - If Energy Monitoring is being used, then the power used by the Hot Water Heater will be proportionally spread across the other operating Indoor Units.
  - If no Indoor Units are in operation then the power used by the Hot Water Heater will be treated as Standby Power, and will be spread across all the Indoor Units as selected in the Setting File.
  - 2 When you do add the Hot Water Heater in the BMS Setting File
    - ♦ You cannot select Hot Water Heater in the BMS Setting File Software therefore you must select another indoor type.
    - ♦ You can control the On/Off of the Hot Water Heater.
    - ♦ You cannot control the Water Pump or the Heater Output (CN60) as these are controlled solely by the Hot Water Heater.
    - ♦ Fan Speed will always report Fan Stop as there is no fan connected.
- Set point Control will depend on the type of BMS device connected, most will be limited to 18°C to 29°C although some like Smart Manager Web Interface can offer a wider range.