



With the mid temperature hot water module, produce hot water in addition of cooling and heating.

CAPACITY



8kW > 16kW

HOT WATER



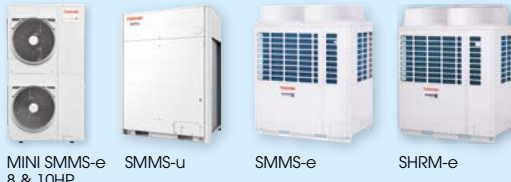
Max 50°C

SOUND PRESSURE LEVEL



25dB(A)

OUTDOOR UNITS COMPATIBILITY



MINI SMMS-e  
8 & 10HP

SMMS-u

SMMS-e

SHRM-e

LOCAL CONTROLS



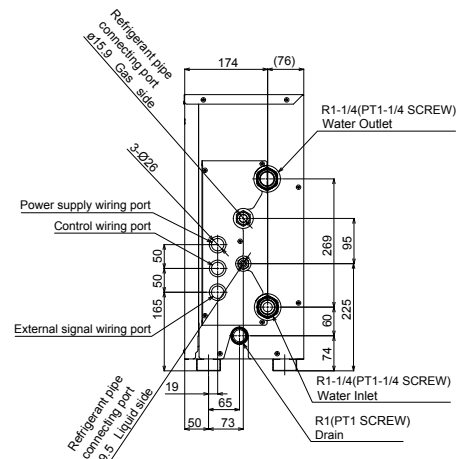
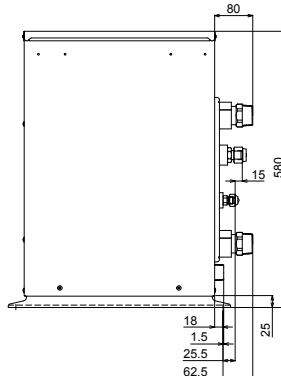
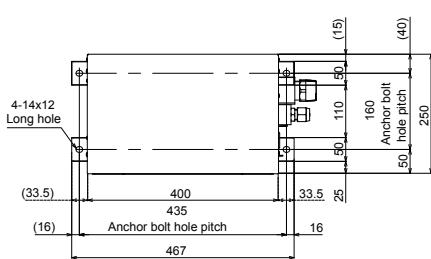
RBC-ASCU11-E  
RBC-AMTU31-E  
RBC-AMSU51-EN/ES

Features

Model	MMW-	UP0271LQ-E	UP0561LQ-E	
<b>Heating capacity *1</b>	<b>kW</b>	<b>8,0</b>	<b>16,0</b>	
<b>Electrical characteristics</b>	Power supply *2	1 phase 50 Hz 230 V (220 - 240 V)		
	Running current	A	0,08	0,08
	Power consumption	W	14	14
<b>Appearance</b>	Zinc hot dipping steel plate			
<b>Dimensions</b>	Unit HxL(leg included)xD	mm 580x400(467)x250		
<b>Weight</b>	Unit	kg 17,8	20,3	
<b>Design pressure</b>	Refrigerant side	MPa 3,73		
	Water side	MPa 1,0		
<b>Heat exchanger</b>	Plate type heat exchanger			
<b>Heat-insulating material</b>	Polyethylene foam + Polyurethane foam			
<b>Water flow rate</b>	Standard	L/min 22,9	45,8	
	Min.	L/min 19,5	38,9	
<b>Water pressure loss (at standard water flow rate)</b>	kPa	40,5	44,2	
<b>Controller</b>	Remote controller			
<b>Operation range</b>	Indoor	CDB	5 - 32	
		CWB	23 or less	
	Ambient	Allowable dew point RH(%)	30 - 85	
		Outdoor (at heating) MINI SMMS-e	CDB -20 - 21	
		CWB -20 - 15		
		Outdoor (at heating) SMMS-e, SMMS-u	CDB -25 - 21	
		CWB -25 - 19		
		Outdoor (at heating) SHRM-e	CDB -25 - 40	
CWB -25 - 28				
Water inlet side	C	15 or more and 45 or less		
	C	25 - 50		
<b>Water filter</b>	Strainer with Mesh 30 to 40 (procured locally)			
<b>Connecting pipe</b>	Water pipe	Inlet	R1 - 1/4	
		Outlet	R1 - 1/4	
	Refrigerant pipe	Gas pipe	inch 15.9 flare connection	
		Liquid pipe	inch 9.5 flare connection	
	Drain pipe	R1		
<b>Sound pressure level</b>	dB(A)	25	27	
<b>Sound power level</b>	dB(A)	25	27	
<b>Installation place</b>	Indoor			

\*1: Rated conditions: Inlet water temp. 30 °C outlet water temp. 35 °C Outdoor air temp. 7 °CDB / 6 °CWB  
 The standard piping means that mean pipe length is 5 m, branching pipe length is 2.5 m of branch piping connected with a 0 meter height.  
 \*2: The source voltage must not fluctuate more than ±10%.  
 \*3: The unit is packed in a sideways state.

Drawings



Unit: mm

## MID TEMPERATURE HOT WATER MODULE

### Allowable length / height difference of refrigerant piping

		Mini SMMSe 8/10HP (without PMV kit)	SMMSu	SMMSe	SHRMe	
Piping length	Total extension of pipe (Liquid pipe, real length)	Below 34HP	300m	500m	300m	300m
		34HP or more		1200m	1000m	1000m
	Farthest piping length	Equivalent length	150m	250m	235m	200m
		Real length	120m	210m	190m	180m
	Equivalent length of farthest piping from 1st branching	High difference between IDU >3m	40m	65m	65m	50m
		High difference between IDU ≤3m	40m	90m	90m	65m
	Equivalent length of farthest piping between outdoor units			40m	25m	15m
	Max equivalent length of main piping	High difference between IDU >3m	80m	120/100m	120/100m	100/85m
		High difference between IDU ≤3m				120/100m
	Max. equivalent length of outdoor unit connecting piping			10m	10m	10m
Max. real length of indoor unit connecting piping		15m	30m	30m	30m	
Max. equivalent length between branches			50m	50m	50m	
Maximum real length of terminal branching section to indoor units	Single port type				15m	
	Multi port type				50m	
Maximum equivalent length between branching section					50m	
Difference in height	Height between indoor and outdoor units	Upper outdoor unit	10m	70m	70m	70m
		Lower outdoor unit	10m	40m	40m	30m
	Height between indoor units	Upper outdoor unit	15m	3m*	3m*	40m
		Lower outdoor unit		10m*	10m*	15m
	Height between HWM	Upper outdoor unit	10m	3m	3m	40m
		Lower outdoor unit	10m			15m
Height between indoor units and HWM	Upper outdoor unit	10m	3m*	3m*	40m	
	Lower outdoor unit	10m	10m*	10m*	15m	
Height between outdoor units			5m	5m	5m	
In case of 4serie flow selector connection to indoor units	Maximum equivalent length indoor units in group control by one single port flow selector unit				30m	
	Maximum real length between flow selector unit and indoor unit	Single port type			15m	
		Multi port type			50m	
Height difference between indoor units in group control by one flow selector unit					0.5m	

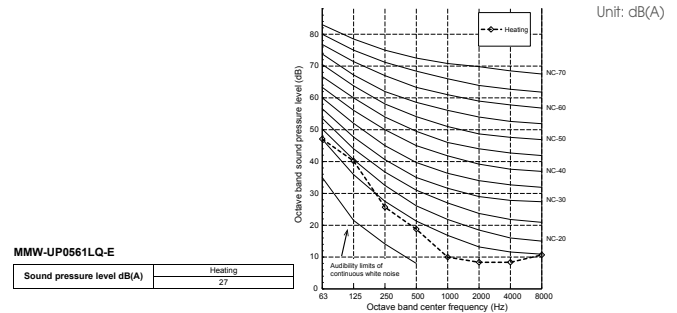
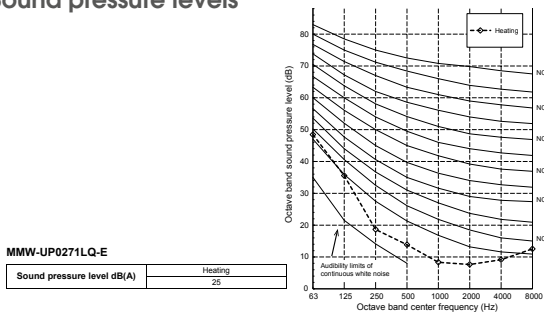
\* 40m if hot water module and indoor units are not operating at the same time.

↑ IDU

### Diversity and connectivity restrictions

		Mini SMMSe 8/10HP (without PMV kit)	SMMSu	SMMSe	SHRMe	
Indoor connection capacity	Total	Standard indoor unit + M-HWM	80 - 200%	65 - 115%	65 - 115%	90 - 135%
	Allowed capacity	Standard indoor unit M-HWM	80 - 130% 0 - 100%	50 - 115% 0 - 50%	50 - 115% 0 - 50%	50 - 120% 0 - 67.5%
Number of combined indoor units and M-HWM	Total	Standard indoor unit + M-HWM	8HP 2 - 12 10HP 2 - 16	2 - 128	2 - 64	2 - 32
	Allowed number	Standard indoor unit			2 - 128	2 - 64
		M-HWM		0 - 4	0 - 2	0 - 2

### Sound pressure levels



### Other information

#### Water piping and line heater installation

- Make the piping route a closed circuit. (An open water circuit may cause a failure.)
- Before a long period of none use, purge the water out of the pipes and thoroughly let them dry.
- Do not add brine to the circulating water.
- Do not use the water used for the unit for drinking or food manufacturing.
- To ensure easy maintenance, inspection, and replacement of the unit, use a proper joint, valve, etc. (procured locally) on the water inlet and outlet port.
- Be sure to install a strainer with 30 to 40 meshes (procured locally) on the water inlet pipe. If a strainer is not installed, this may cause impaired performance, or damage to the plate heat exchanger from freezing.
- Install a suitable air vent (procured locally) on the water pipe. After sending water through the pipe, be sure to vent the excess air.
- To avoid water leak, wrap some sealing tape around the screw part.
- Water pipes can get very hot, depending on the preset temperature. Wrap the water pipes with heat insulation (procured locally) to prevent burns.
- Be sure to install the line heater (procured locally) on the water inlet side. In addition, position it within 5 m of the water inlet pipe of the Hot Water Module.
- Follow capacity table 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-UP0271LQ-E	3.2-4.0
MMW-UP0561LQ-E	6.4-8.0

