

SAVE UP TO  
**80%**  
ON YOUR HOT  
WATER BILL\*  
\*depending on  
hot water usage

**7**  
YEAR  
WARRANTY



## CO<sub>2</sub> HOT WATER HEAT PUMP

Panasonic introduces CO<sub>2</sub> Hot Water Heat pumps with industry-leading technology. Using CO<sub>2</sub> (R744) as a refrigerant, this unit is able to be more environmentally friendly whilst providing significantly lower energy consumption.

Panasonic have sold over 2 million units in Japan since entering the Heat Pump Market over 20 years ago. You can rely on quality products, designed with experience built up over 20 years.

### KEY FEATURES

**GLOBAL WARMING POTENTIAL OF 1** – Energy efficient and the most environmentally friendly refrigerant in the market

**6 OPERATIONAL MODES** – Allows you to take control over your energy costs and consumption

**FLEXIBILITY** – Multiple Timer and Temperature Control ensures complete flexibility

**DAILY SELF-LEGIONELLA CONTROL**

**WHISPER QUIET:** 37dB

**OPERATING RANGE:** -10 to + 44 °C



## HEAT PUMP & CONTROLLER SPECIFICATIONS



### HEAT PUMP

### MODEL HE-UM60AR

Heat output at 19.0°C ambient / 14.0°C cold water inlet*	kW	5.0
Electric input at 19.0°C ambient / 14.0°C cold water inlet*	kW	0.96
COP at 19.0°C ambient / 14.0°C cold water inlet*	-	5.2
Power input (MAX)	kW	2.3
Current input (MAX)	A	10
Circuit breaker size	A	15
Standby power consumption	W	5.1
Power supply	V/Hz	230V (power input is voltage x amps x power factor) / 50Hz (single phase)
Heat pump refrigerant	-	CO2 (R744)
Heat pump hot water delivery temperature	°C	63-67 Variable. Based on heat pump inlet temperature.
Range of operating ambient temperature	°C	-10 to 43
Heat pump unit weight	kg	46
Heat pump location	-	outdoor
Noise level	dB	37
Dimensions (H x W x D)	mm	672x799x299
Rain resistance	-	IPX4
Water port connections (Inlet / Outlet)	Inch/mm	1/2" BSP, 12.7mm
Built-in freeze and frost control	°C	Variable. Depends on the relative humidity, water, & ambient temperature [i.e. about 5°C water temperature & 5°C ambient temperature]

\*As per AS/NZ Standard 5125



### SMART CONTROLLER V1.1

Controller power supply voltage and frequency	V/Hz	230/50 (single phase)
Signal from the controller to heat pump	V/Hz	12/50
Controller location	-	Mounted on wall or tank
Heat pump on / off temperature (based on the thermistor on the tank)	°C	37/59
Daily Self-Legionella control	-	60°C at 45% level on tank
IP Rating	-	IP54
UV Rated	-	Yes
<b>Operational mode (selectable by the end user)</b>		
<b>Option 1: 24 hours – Continuous</b>		
<b>Option 2: 9 hours (Off-Peak mode 1: 10pm – 7am)</b>		
<b>Option 3: 6 hours (Off-Peak mode 2: 12am – 6am)</b>		
<b>Option 4: 6 hours (10am – 4pm)</b>		
<b>Option 5: Timer (Two-Zones)</b>		
<b>Option 6: Remote (One Shot Boost)*</b>		
		6 available options *One Shot Boost is activated by a dry contact signal from home management or dry contact smart switches
		NOTE <b>One Shot Boost:</b> This activates the heat pump if temperature is less than 59°C, heating up until the sensor achieves 59°C.

Available in 160L, 250L, 315L and 400L Enamel Glass Tank options. Stainless Steel available upon request.