

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

**7**  
YEAR  
WARRANTY



## CO2 HOT WATER HEAT PUMP

Panasonic introduces CO2 Hot Water Heat pumps with industry-leading technology. Using CO2 (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

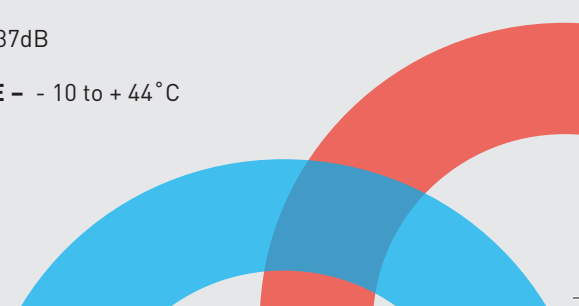
**6 OPERATIONAL MODES** – Allows you to take control over your energy costs and consumption

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

**DAILY SELF-LEGIONELLA CONTROL**

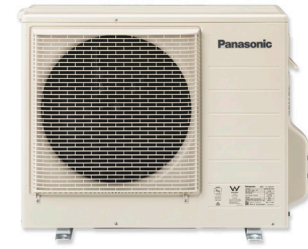
**WHISPER QUIET** – 37dB

**OPERATING RANGE** – - 10 to + 44 °C





## HEAT PUMP & CONTROLLER SPECIFICATIONS



### HEAT PUMP

### MODEL HE-UM60AR

Heat output at 32.5°C ambient / 21.0°C cold water inlet	kW	5.06
Electric input at 32.5°C ambient / 21.0°C cold water inlet	kW	0.83
COP at 32.5°C ambient / 21.0°C cold water inlet	-	6.09
Power input (MAX)	kW	2.3
Current input (MAX)	A	10
Circuit breaker size	A	15
Standby power consumption	W	5.05
Power supply	V/Hz	230-240 Vac (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)

Note: Images of heat pump & controller are not to scale & are for illustrative purposes only.

### SMART CONTROLLER V1.1



Controller power supply voltage and frequency	V/Hz	240/50 (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

#### Operational mode (selectable by the end user)

**Option 1: 24 hours – Continuous**

**Option 2: 9 hours (Off-Peak mode 1: 10pm – 7am)**

**Option 3: 6 hours (Off-Peak mode 2: 12am – 6am)**

**Option 4: 6 hours (10am – 4pm)**

**Option 5: Timer (Two-Zones)**

**Option 6: Remote (One Shot Boost)\***

6 available options

\* One Shot Boost is activated by a dry contact signal from home management or dry contact smart switches

NOTE

**One Shot Boost:** 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.

