

# Panasonic

## Panasonic CO<sub>2</sub> Hot Water Heat Pumps

A more efficient hot water solution



10 Year Parts and  
Labour Warranty

\*Conditions apply



# WHY A CO<sub>2</sub> HEAT PUMP?

- Lowest global warming potential and high energy efficiency
- CO<sub>2</sub> Refrigerant is Natural, efficient and non-flammable
- Consistent hot water even in Alpine regions
- Sustainable and future-proof technology



## HOW DOES THE PANASONIC CO<sub>2</sub> HEAT PUMP WORK?

**A Panasonic CO<sub>2</sub> Heat Pump extracts heat from the air around us, heating your hot water efficiently with less cost.**

An air to water heat pump is a highly efficient system that uses heat from the ambient air for hot water production. Its heat energy output is about three to five times as high as the electricity input required to run it.

The Panasonic CO<sub>2</sub> Heat Pump, produces domestic hot water at 59°C without requiring an electrical backup, even at an outside temperature of -10°C.

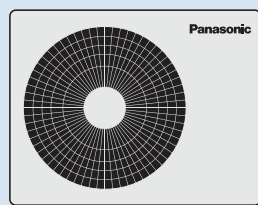


Smart Controller gives you the power to tailor your hot water to your needs



Heat Pump draws in ambient air and uses this to heat incoming mains water

1kW energy in



HE-UM60CR

6.1kW energy out

Hot Water Storage Tank



House is supplied hot water year round

**Stratified Heating**

Water is heated from the top down allowing usable hot water almost immediately

Mains water

# WHY A PANASONIC CO<sub>2</sub> HEAT PUMP?

## 4.0kW BENEFITS

- With a high COP of 5 this is one of the most efficient heat pumps on the market
- Top down heating design means the fastest recovery rate
- Split system design means unrestricted installation options
- With a sound output of only 37dB this is one of the quietest units on the market
- Panasonic external controller including WiFi for mobile phone app control
- Installer friendly design

## 6.0kW ADDITIONAL BENEFITS

- Increased heating capacity especially at low temperatures
- Increased recovery rate for high volume hot water requirements
- Industry leading COP of 6.1



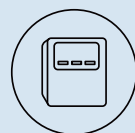
### Origins

Designed for Australia.  
Heat pump manufactured in Japan.



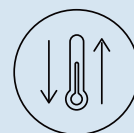
### Tank Options

250 L / 315 L / 400 L  
(Glass Lined or Stainless Steel)



### Smart External Controller

Timer function / One-shot boost  
Works with PV solar / Self legionella control / Self defrost operation / Anti-frost and Anti-freeze protection.



### Usage Environment

Suitable for all Australian conditions tested from -10°C to +43°C.



6.0kW HE-UM60CR

4.0kW HE-UM40CR



### Rebate

Eligible for National and various State government rebates (STC, ESS, VEEC etc.)



### Warranty

10 year parts and labour warranty.  
\*Conditions apply

## CONTROL YOUR PANASONIC HOT WATER AND AIR CONDITIONING ALL IN ONE PLACE

View daily weekly monthly or annual usage, set your desired temperature and turn on holiday mode, all from your mobile



Comfort Cloud

## WHICH STORAGE TANK IS RIGHT FOR YOU?



250  
LITRES



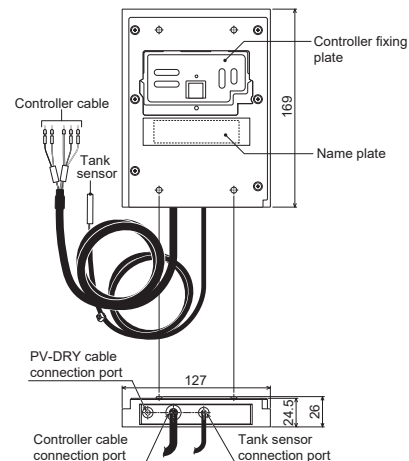
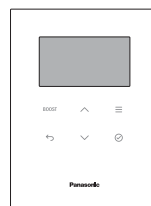
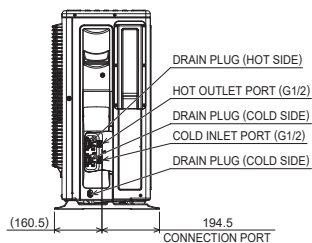
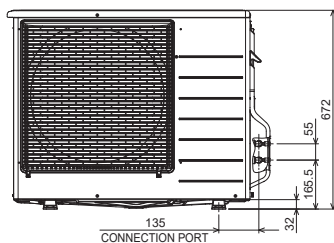
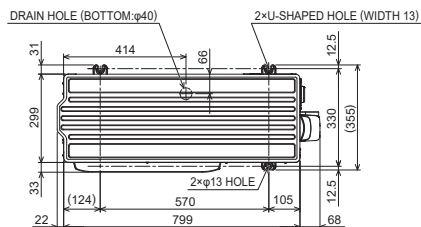
315  
LITRES

HIGH DEMAND



400  
LITRES

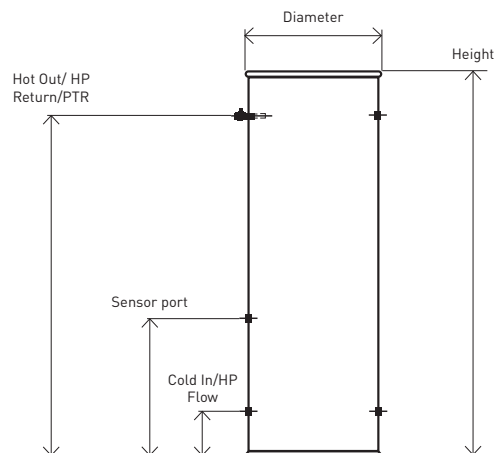
# HEAT PUMP & CONTROLLER SPECIFICATIONS



| CO <sub>2</sub> HPU                               | HE-UM60CR                                                                           | HE-UM40CR |
|---------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
| Power supply                                      | 230 V-240 V (single-phase) ~ 50 Hz                                                  |           |
| Current input (Max)                               | 10.0 A                                                                              |           |
| AS 5125<br>Test condition 4 (*)                   | Heat output                                                                         | 5.06 kW   |
|                                                   | Electric input                                                                      | 0.83 kW   |
|                                                   | C.O.P.                                                                              | 6.11      |
|                                                   | Noise level                                                                         | 37 dB(A)  |
| Heating temperature                               | 63 °C                                                                               |           |
| Power input (Max)                                 | 2.3 kW                                                                              | 2.0 kW    |
| Heat output (Max)                                 | 6.5 kW                                                                              | 5.6 kW    |
| Heat pump location                                | Outdoor                                                                             |           |
| Allowable installation outdoor temperature        | -10 °C (Minimum)                                                                    |           |
| Ingress protection rating                         | IPX 4                                                                               |           |
| Power cord type                                   | 3-Pole (L, N, EARTH) : Connected to the power terminal block of CO <sub>2</sub> HPU |           |
| Type of power plug                                | Type I                                                                              |           |
| Power circuit fuse                                | 240V 16A (dedicated circuit) 20A (shared circuit)                                   |           |
| Refrigerant                                       | R744 (CO <sub>2</sub> )                                                             |           |
| Charging amount                                   | 900 g                                                                               | 630 g     |
| Design pressure: high/low                         | 14 MPa / 9 MPa                                                                      |           |
| CO <sub>2</sub> HPU weight                        | 46 kg                                                                               | 41 kg     |
| Exterior color                                    | Ivory white                                                                         |           |
| Water connection port (water side/hot water side) | G1/2 B                                                                              |           |
| Drain port                                        | Drain elbow                                                                         |           |
| Applicable Hose Inner Diameter                    | Φ15 mm - Φ16 mm                                                                     |           |

(\*) AS 5125 Test condition 4: DB32.5 °C / WB26.3 °C / Inlet Water 21.0 °C

| Controller                | HE-1MAHR            |
|---------------------------|---------------------|
| Power source              | DC12.2 V            |
| Rated power consumption   | 4 W                 |
| Wireless LAN              | Module incorporated |
| Ingress protection rating | IPX 4               |
| Controller cable          | 4-core              |
| Terminal                  | Ferrule E 0508      |
| Effective length          | 1.3 m               |
| Tank sensor               | Φ5 mm × 24 mm       |
| Sensor cable              | 2-core              |
| Effective length          | 2.8 m               |



Scan for more information about Panasonic Heat Pump Products and details on warranties

## Panasonic

To find out more, check out [www.panasonic.com.au](http://www.panasonic.com.au)

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## Storage Tank Specifications

| Model No                           | Stainless Steel         |            | Vitreous Enamel         |            |            | Vitreous Enamel            |             |             |
|------------------------------------|-------------------------|------------|-------------------------|------------|------------|----------------------------|-------------|-------------|
|                                    | Dual Handed Connections |            | Dual Handed Connections |            |            | Left side only Connections |             |             |
|                                    | PHE-250ASR              | PHE-315ASR | PHE-250AGR              | PHE-315AGR | PHE-400AGR | HE-TM250AHR                | HE-TM315AHR | HE-TM400AHR |
| Tank Volume (L)                    | 250                     | 315        | 250                     | 315        | 400        | 250                        | 315         | 400         |
| Height (mm)                        | 1673                    | 2038       | 1444                    | 1764       | 1703       | 1712                       | 1650        | 1705        |
| Diameter (mm)                      | 620                     | 620        | 623                     | 623        | 711        | 570                        | 640         | 700         |
| Weight (kg - empty)                | 60                      | 75         | 71                      | 92         | 116        | 90                         | 97          | 130         |
| Hot water out, HP Return, PTR (mm) | 1405                    | 1768       | 1217                    | 1537       | 1452       | 1210                       | 1090        | 1140        |
| Cold water in, HP Flow (mm)        | 268                     | 266        | 201                     | 201        | 226        | 256                        | 282         | 281t        |
| Sensor Port (mm)                   | 579                     | 681        | 452                     | 551        | 536        | 541                        | 532         | 591         |
| Anode (material, mm diameter)      | No                      | No         | Magnesium, 26.7         |            |            | Magnesium, 26.7            |             |             |
| Pressure and Water Connections     |                         |            |                         |            |            |                            |             |             |
| PTR Valve - kPa                    | 700                     | 700        | 850                     | 850        | 850        | 850                        | 850         | 850         |
| Mains Water Pressure Max - kPa     | 500                     | 500        | 500                     | 500        | 500        | 500                        | 500         | 500         |
| Water Connections - BSP            | 3/4" Female             |            | 3/4" Female             |            |            | 3/4" Female                |             |             |
| Country of Manufacture             | Australia               |            | Australia               |            |            | PRC                        |             |             |
| Warranty - Parts and Labour        | 10 Years (excl. WA)     |            | 10 Years                |            |            | 10 Years                   |             |             |