

Panasonic

Panasonic 4.0kW CO₂ Hot Water Heat Pumps

A more efficient hot water solution



10 Year Parts and
Labour Warranty

*Conditions apply



 Green Building
Council Australia

 eec
Corporate Member

WHY A CO₂ HEAT PUMP?

- Lowest global warming potential and high energy efficiency
- CO₂ Refrigerant is Natural, efficient and non-flammable
- Consistent hot water even in Alpine regions
- Sustainable and future-proof technology



HOW DOES THE PANASONIC CO₂ HEAT PUMP WORK?

A Panasonic CO₂ 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.

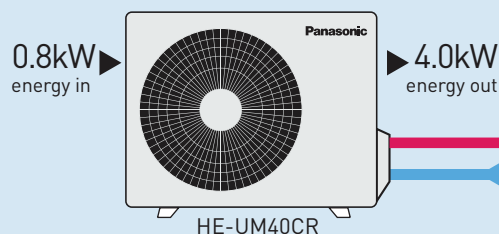
The Panasonic CO₂ Heat Pump, produces domestic hot water at 59°C without requiring an electrical backup, even at an outside temperature of -10°C.



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



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 CO₂ 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



4.0kW HE-UM40CR



Origins

Designed for Australia.
Heat pump manufactured in Japan.



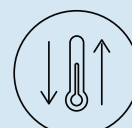
Tank Options

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.



Rebate

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



Warranty

10 year parts and labour warranty.
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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

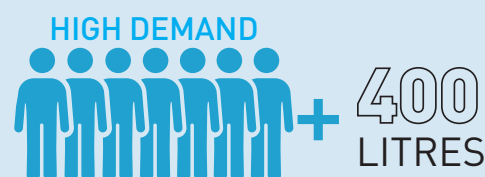
WHICH STORAGE TANK IS RIGHT FOR YOU?



250
LITRES

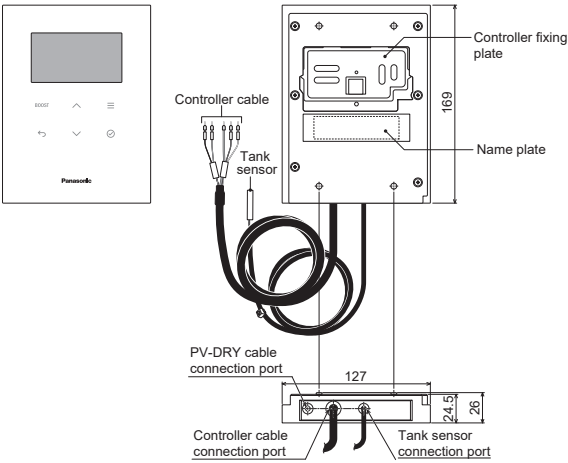
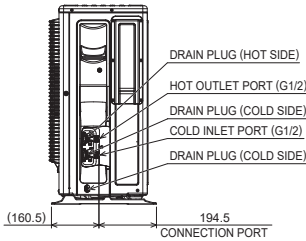
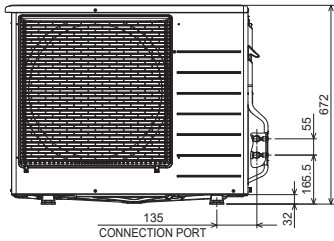
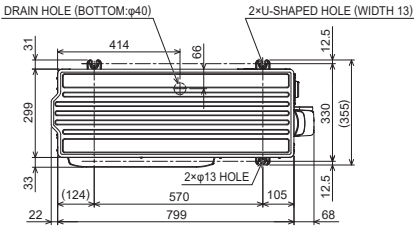


315
LITRES



400
LITRES

HEAT PUMP & CONTROLLER SPECIFICATIONS



CO ₂ HPU	HE-UM40CR
Power Supply	230 V-240 V [single-phase] 50 Hz
Current input (Max)	10.0 A
AS 5125 Test conditions	Heat output 4.00 kW
	Electric input 0.80 kW
	C.O.P. 5
	Noise level 37 dB(A)
Heating temperature	63 °C
Power input (Max)	2.0 kW
Heat output (Max)	5.6 kW
Heat pump location Outdoor	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 ₂ HPU	3-Pole [L, N, EARTH] : Connected to the power terminal block of CO ₂ HPU
Type of power plug	Type I
Power circuit fuse	240V 16A [dedicated circuit] 20A [shared circuit]
Refrigerant	R744 (CO ₂)
Charging amount	630 g
Design pressure: high/low	14 MPa / 9 MPa
CO ₂ HPU weight	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

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



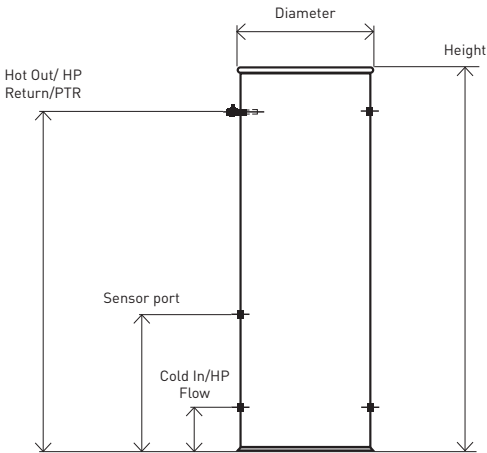
Scan for more information about
Panasonic Heat Pump Products
and details on warranties

Panasonic

To find out more,
check out www.panasonic.com.au

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Storage Tank Specifications					
Stainless Steel			Vitreous Enamel		
Model No	Dual Handed Connections		Dual Handed Connections		
	PHE-250ASR	PHE-315ASR	PHE-250AGR	PHE-315AGR	PHE-400AGR
Tank Volume (L)	250	315	250	315	400
Height (mm)	1673	2038	1444	1764	1703
Diameter (mm)	620	620	623	623	711
Weight (kg - empty)	60	75	71	92	116
Hot water out, HP Return, PTR (mm)	1405	1768	1217	1537	1452
Cold water in, HP Flow (mm)	268	266	201	201	226
Sensor Port (mm)	579	681	452	551	536
Anode (material, mm diameter)	No	No	Magnesium, 26.7		
Pressure and Water Connections					
PTR Valve - kPa	700	700	850	850	850
Mains Water Pressure Max - kPa	500	500	500	500	500
Water Connections - BSP	3/4" Female		3/4" Female		
Country of Manufacture	Australia		Australia		
Warranty - Parts and Labour	10 Years (excl. WA)		10 Years		