

# Panasonic

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

A more efficient hot water solution



10 Year Parts and  
Labour Warranty



4.0kW and 6.0kW

HEAT PUMPS



MADE IN  
JAPAN



# 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



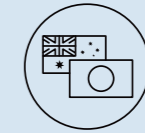
# WHY A PANASONIC CO<sub>2</sub> HEAT PUMP?

## 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



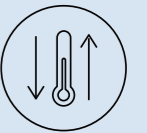
**Origins**  
Designed for Australia.  
Heat pump manufactured in Japan.



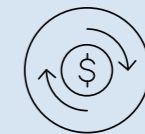
**Tank Options**  
250 L / 315 L / 400 L  
(Glass Lined or Stainless Steel)



**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.



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



**Warranty**  
10 year parts and labour warranty.

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

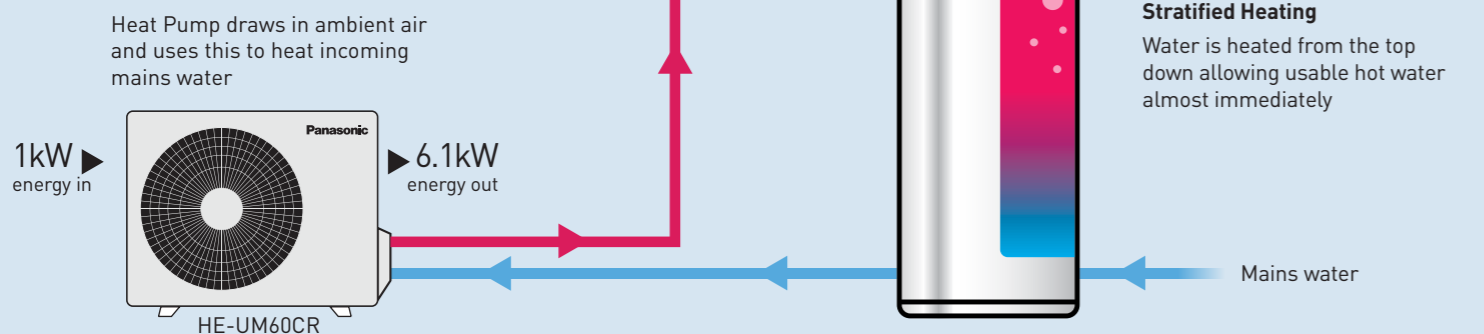
A Panasonic CO<sub>2</sub> Heat Pump extracts heat from the air around us, heating your hot water efficiently with less cost.

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



# 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

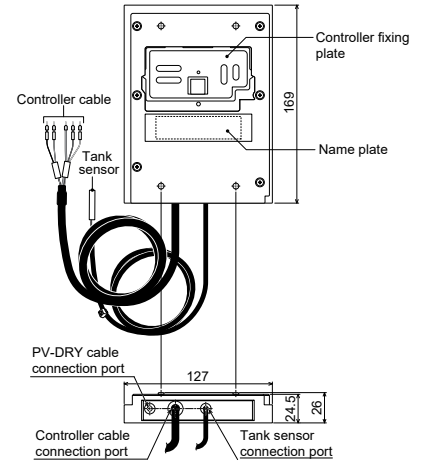
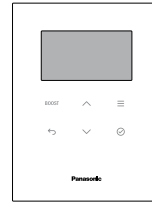
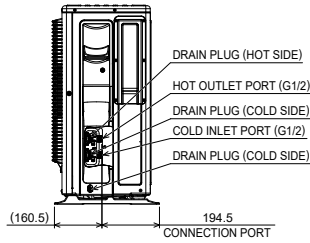
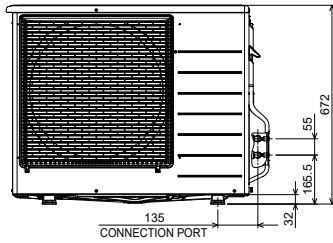
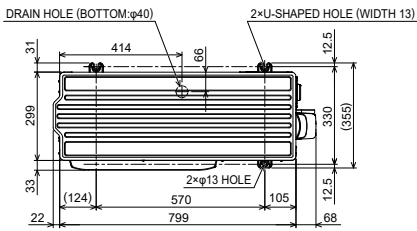


Comfort Cloud

## WHICH STORAGE TANK IS RIGHT FOR YOU?



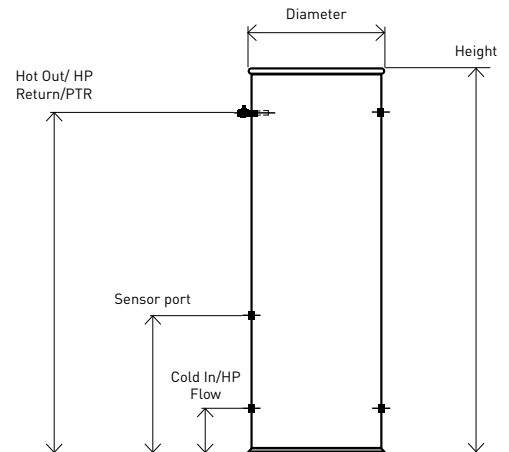
# HEAT PUMP & CONTROLLER SPECIFICATIONS



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 Test condition 4 (*)	Heat output	5.06 kW	4.00 kW
	Electric input	0.83 kW	0.80 kW
	C.O.P.	6.11	5.00
	Noise level	37 dB(A)	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	
Refrigerant 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 warranties

## Panasonic

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

Panasonic Australia Pty Limited  
Level 1, 1 Innovation Road, Macquarie Park, NSW 2113

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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-250AHR	HE-315AHR	HE-400AHR
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		