

Panasonic
HOT WATER | CO₂ HEAT PUMP

PANASONIC CO₂ HOT WATER HEAT PUMP

INDUSTRY LEADING TECHNOLOGY



DOMESTIC
HOT WATER



WHISPER
QUIET



HIGH
PERFORMANCE



LOWEST
GWP



SINGLE PASS
60°C



solarworks
SOLAR • GAS • PLUMBING

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300L

STORAGE VOLUME

75%

ENERGY SAVINGS

7 YEAR

WARRANTY

60°C

WATER TEMP

-  **REDUCES ENERGY COST:** 75% energy saving compared with electric hot water cylinder or gas hot water. Only \$1.12 per day average* for all your hot water.
-  **NATURAL REFRIGERANT:** CO₂ refrigerant with lowest Global Warming Potential of one and zero Ozone Depletion.
-  **MADE FOR THE COLD:** Single pass water heating which always heats water to 63°C no matter the weather. CO₂ refrigerant loves the cold.
-  **CONTROLLER:** Utilise the on-board timers to maximise the benefit and savings from your solar PV system, or Hour of Power free electricity.
-  **ONE PRESS BOOST BUTTON:** Runs the heat pump for instantaneous water heating for up to six hours to provide quick hot water any time.
-  **EFFICIENT & QUIET:** Heat pump only operation, no electric element required. Whisper quiet; 37 dB
-  **ALTERNATIVE TO GAS:** The heat pump is installed outdoors, saving space inside your house. And it eliminates the hassle of changing gas bottles, all while reducing your monthly bills. Outdoor or indoor cylinder options.

*Daily power use of 4.5 kWh monitored for family of 5 people using a CO₂ heat pump over 1 year in Rotorua. Energy cost calculated at \$0.25 / kWh.



WARRANTY

Our extensive warranty gives you peace-of-mind knowing that all system parts are covered. All spares parts are held in New Zealand.



HEAT PUMP **7 years** (domestic installations)
1 year (commercial installations)
CONTROLLER **7 years**
CYLINDER **5 years**
LABOUR **1 year** from date of installation



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THE HEAT PUMP SYSTEM THAT SAVES YOU MONEY EVERY DAY

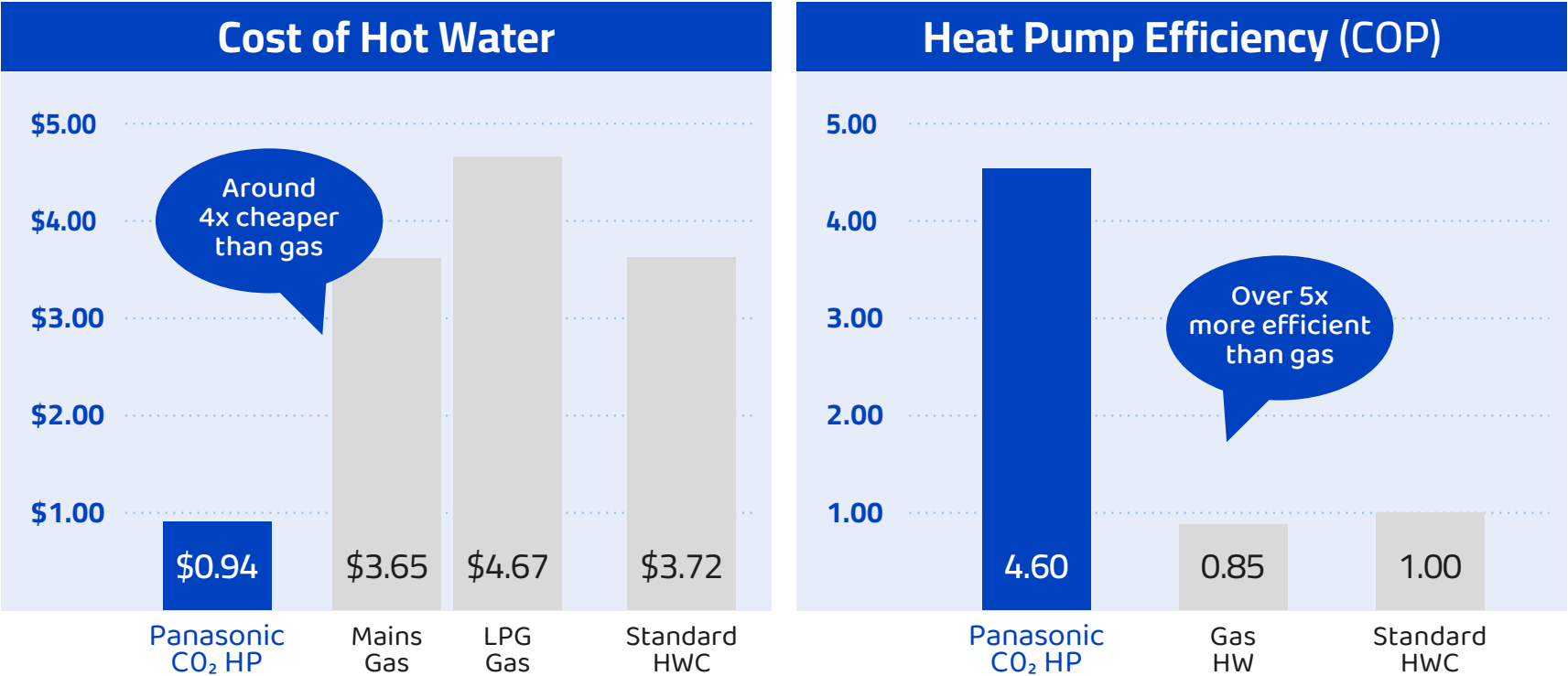


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COMPARATIVE RUNNING COSTS

Panasonic CO₂ Heat Pump vs Gas Water Heater vs Standard Electric Hot Water Cylinder



Around
4x cheaper
and **over 5x more efficient** than a gas hot water system

78% ENERGY SAVING

COMPARATIVE COSTS AND EFFICIENCY	PANASONIC CO ₂ HEAT PUMP	MAINS GAS INSTANT HW	LPG GAS INSTANT HW	STANDARD HOT WATER CYLINDER
COST OF HOT WATER (Electricity at \$0.30. LPG at \$0.32 (\$195/45kg). Mains gas at \$0.25)	\$0.94	\$3.65	\$4.67	\$3.72
HOT WATER AVAILABLE (L)	270	270	270	270
EFFICIENCY (COP)	4.60	0.85	0.85	1.00
TOTAL ENERGY USED (kWh)	2.7	14.6	14.6	12.4
ENERGY SAVINGS (comparable %)	-78%	+18%	+18%	0%

BASIS FOR CALCULATIONS
- Start temperature = 15°C - End temperature = 60°C - Time to heat from cold = 3 hrs - Total heat required = 12.4 kWh (th)
TEST STANDARDS
- Test data according to standard NZS 4305:1996 – Energy efficiency – Domestic type hot water systems. - Day to day conditions will vary, so heat pump performance will vary. - Assume using a Full 270L HW cylinder (approx. daily hot water use for five people).



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PRODUCT SPECIFICATIONS



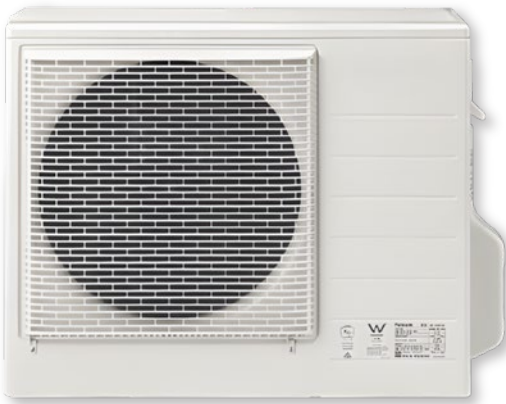
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HEAT PUMP

Power input at 19°C air temp*	0.96 kW
Thermal output at 19°C air temp*	4.83 kW
COP at 19°C air temp*	5.0
Refrigerant	CO ₂ (R744)
Output water temperature	63°C
Power supply	240 V / 50 Hz
Circuit (max)	10 Amps
Average sound pressure level	37 dB @ 1.0 m
Ambient temperature operation range	-10°C to 43°C
Dimensions	675H x 799W x 299D (mm)
Weight	46 kg
Rain resistance	IPX4
Water port connections (inlet/outlet)	1/2" BSP / 12.7 mm
Warranty	7 Years

*Tested to AS/NZS 5125: 2014
- Heat pump water heaters.



Heat Pump

HOT WATER CYLINDER

Capacity & dimensions	300L 650W x 1,740H (mm)
Casing	Frosted grey, powder-coated zinc alum, outdoor cased
Heat loss & thermal conductance*	1.95 kWh / 24 hr Lowest heat loss in NZ for 300L
Insulation	75 mm polyurethane. Zero ozone depletion
Warranty	5 Years
Electric element	3 kW - emergency back-up operation only



Hot Water Cylinder

PERFORMANCE AT DIFFERENT AIR TEMPERATURES

SEASON	AMBIENT TEMP. (°C)	COEFFICIENT OF PERFORMANCE
Summer	26	5.6
NI Annual Average Temp.	14	4.7
SI Annual Average Temp.	12	4.6
Mild Winter	5	4.0
Cold Winter	-1	3.3
Very Cold Winter	-5	3.0

NOTE: Test conditions at a range of ambient air temperatures, inlet water at 15°C

WiFi SMART CONTROLLER

FLEXIBLE OPTIONS

Choice and control for everyday savings

OPTION	PROGRAMME	BEST MODE FOR
10.00 pm to 7.00 am	Off-peak Mode 1	Off-peak tariffs
12.00 am to 6.00 am	Off-peak Mode 2	Night rates
10.00 am to 4.00 pm	PV Daytime	PV panels/warmer days
Timer/Temperature	2 periods, any time	Free hour/s of power/PV
PV Timer	Remote Start	External controllers/PV Inverters
Holiday	Once every 7 days	Away for up to 30 days



WiFi Smart Controller



Comfort Cloud App



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