

ApricusECO
hot water + heating

Sustainable Solutions
Commercial | Domestic

PANASONIC CO₂ HOT WATER HEAT PUMP

INDUSTRY LEADING TECHNOLOGY



DOMESTIC
HOT WATER



WHISPER
QUIET



HIGH
PERFORMANCE



LOWEST
GWP



SINGLE PASS
60°C



PANASONIC CO₂ HOT WATER HEAT PUMP

INDUSTRY LEADING TECHNOLOGY



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.



Separate Outdoor Compressor and Controller

Indoor or Outdoor Cylinder

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). 3 years (commercial installations) |
| CONTROLLER | 5 years |
| CYLINDER | 5 years |
| LABOUR | 1 year from date of installation |

CONTACT US
TODAY

07 312 3382
info@ecohotwater.co.nz

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WHAT OUR CUSTOMERS SAY

David | Napier
Installer/Home Owner

“ Recently installed a CO₂ heat pump plus hot water cylinder for a new house installation. Super easy install, with clear instructions, and a quick response for any queries. The heat pump is very quiet. Totally satisfied as an installer, and one very happy homeowner.



Peter | Auckland
Home Owner

“ The CO₂ hot water heat pump was installed, turned on, and then forgotten about. It has worked seamlessly, coping at times with a house full of six people all wanting showers at about the same time, without any loss of temperature. With its very rapid and efficient recovery time, it has made a noticeable reduction in our power bills compared with the traditional gas fired water cylinder we had before.



Tim Ross | Dunedin
Architect

“ As architects working on low energy and passive house projects, we are very conscious of the impact our design choices have on the climate. Leaking refrigerants are a major contributor to climate change. For us, having the ability to specify a hot water heat pump which uses a benign refrigerant like CO₂ is fantastic.



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HEAT PUMP - Model: UM60AR

| | |
|---------------------------------------|-------------------------|
| Power input* | 0.96 kW |
| Thermal output* | 5.0 kW |
| COP* | 5.20 |
| Refrigerant | CO ₂ (R744) |
| Output water temperature | 63-67°C |
| Power supply | 230 V / 50 Hz |
| Current (max) | 10 Amps |
| Circuit breaker | 15 Amps |
| Average sound pressure level | 37 dB @ 1.0 m |
| Ambient temperature operation range | -10 to 43°C |
| Dimensions | 672H 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.

HOT WATER CYLINDER

FLEXIBLE CYLINDER OPTIONS

You can choose an Apricus Eco CO₂ cylinder or a range of standard cylinders. Check with us for more details.

| | |
|----------------------------------|--|
| Capacity & dimensions | 300L 610W x 1780H (mm) |
| Casing | Sandstone Grey, powder-coated zinc alum, outdoor cased |
| Heat loss & thermal conductance* | 2.02 kWh / 24 hr 1.53 W/K Lowest heat loss in NZ for 300L |
| Insulation | 66 mm polyurethane, zero ozone depletion |
| Manufactured in | Auckland |
| Warranty | 5 Years |
| Electric element | Optional 3 kW - emergency back up operation only |



SMART CONTROLLER

FLEXIBLE OPTIONS

Choice and control for everyday savings

| OPTION | PROGRAMME | BEST MODE FOR |
|-----------------|---------------------|-----------------------------|
| 24 HOURS | Continuous | Commercial / high water use |
| PV DAYTIME | 10.00 am to 4.00 pm | PV panels / warmer days |
| OFF-PEAK Mode 1 | 10.00 pm to 7.00 am | Off-peak tariffs |
| OFF PEAK Mode 2 | 12.00 am to 6.00 am | Night rates |
| DOUBLE TIMER | 2 periods, any time | Free hour/s of power / PV |



PERFORMANCE AT DIFFERENT AIR TEMPERATURES

| SEASON | AMBIENT TEMP. (°C) | COEFFICIENT OF PERFORMANCE |
|-------------------------|--------------------|----------------------------|
| Summer | 26 | 6.4 |
| NI Annual Average Temp. | 14 | 4.5 |
| SI Annual Average Temp. | 12 | 4.2 |
| Mild Winter | 5 | 3.3 |
| Cold Winter | -1 | 2.4 |
| Very Cold Winter | -5 | 1.9 |

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

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ABOUT US

Since 2014, the team at Apricus Eco have been designing and supplying eco-friendly hot water and central heating systems for homes and commercial buildings across New Zealand.

We offer expert advice, high performance systems, technical training and long term, on-shore product support.

Our eco-friendly hot water and central heating products include hot water heat pumps, pellet boilers, and solar hot water systems.

Using the latest technology and designs we can reduce your bills and environmental impact.

OUR SERVICES & PRODUCTS

COMMERCIAL & STATE SECTOR

- Building heat load assessment and calculation
- Domestic hot water demand analysis
- Heat source sizing, design and specification
- Hydraulic, electrical and seismic system designs

HOMES

- Expert advice to choose hot water or central heating system for any home
- Central heating and domestic hot water system design and specification
- Specialist training and support for installers
- Responsive and knowledgeable customer support
- Long term warranty and all spare parts available on-shore in New Zealand

HOT WATER HEAT PUMPS

Natural Refrigerants - CO₂ & R290



Apricus+
HOT WATER | R290 HEAT PUMP

Panasonic
HOT WATER | CO₂ HEAT PUMP

EASYPELL
HEATING | R290 HEAT PUMP

RECLAIM
HOT WATER | CO₂ HEAT PUMP

enerblue
HEATING | CO₂ & R290 HEAT PUMP

BIOMASS BOILERS

Wood Pellet & Chip

ÖkoFEN
HEATING | PELLET BOILER



HEATING | BIOMASS BOILER

Energy Box
HEATING
CONTAINERISED PLANT ROOM

EASYPELL
HEATING | PELLET BOILER

SOLAR

Evacuated Tubes

Apricus®
HOT WATER | SOLAR

PUMPS

Hot Water & Central Heating

wilo
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PUMPS

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