

# Heat Pump Water Heaters Heat Pump Ready Cylinders



**Ecoenergy**<sup>®</sup>  
*The smarter way to heat water*<sup>™</sup>



# Why install an Econergy® heat pump water heater?

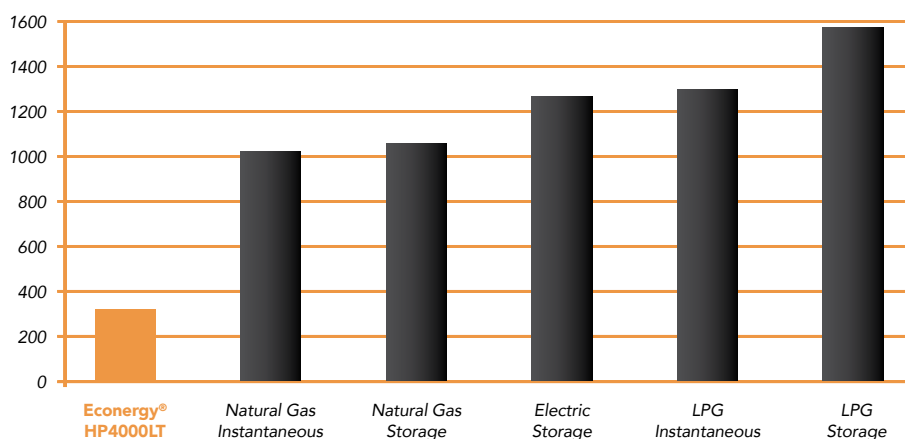
We all like a decent shower or soak in a hot bath...until the power bill arrives. Water heating accounts for around 40% of household energy use, while energy costs continue to rise. Extremely efficient Econergy® water heaters solve the problem of rising energy costs by transferring up to 75% of the heating energy from the air.\* This is achieved by the application of revolutionary patented technology that heats the water in a single pass. Econergy® running costs have been independently shown to be amongst the lowest of any system, up to 75% less than electric hot water cylinders and around 40% less than natural gas!

Econergy's top down heating principle, together with generous capacity, maximises hot water supply even during periods of high use.

Econergy's new range of heat pump optimised storage cylinders ensure high flow rates are achieved. This allows the whole house to be run simultaneously off one system.

Perfect for the demands of modern living, contact us now and find out why Econergy® is trusted by thousands of homes nationwide.

## HOT WATER SYSTEMS - RUNNING COSTS PER YEAR



Source: Average Yearly Running costs calculated from of EECA online calculator.

\* HP4000LT, 73.8% annual savings with electric hot water cylinder, Zone 5, Project Solar AS/NZS 4234 and AS/NZS 5125.

## User interface & microprocessor control

The Econergy® heat pump water heater is intelligently controlled via a microprocessor



located in the unit ensuring the most effective performance under all conditions. Additionally, it is designed to work with the new generation of solar panels.

Each Econergy® system is supplied with a simple user interface, with the following features:

- Indicates running status of the heat pump unit
- Allows manual changeover between the heat pump and the electric element
- 'Solar mode' built in

## Split system design = Maximum flexibility

Econergy® heat pump water heaters are designed to cover the range of hot water needs of New Zealand homes. Each unit is easily connected to an existing hot water cylinder or Econergy® heat pump ready cylinder via insulated water pipes and dual interconnect cables.

CONNECTS TO NEW & EXISTING HOT WATER CYLINDERS

GUARANTEED 66% OFF YOUR HOT WATER BILLS\*

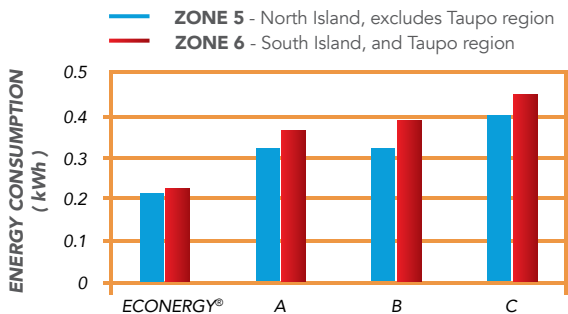


\*Pre-pipe pre wire between heat pump and cylinder, 2 x 15mm plumbing pipes, 1 X CAT5 / CAT6 Cable, 1 x 2.5mm TPS Cable

\*HP4000LT, savings guarantee compared with standard electric hot water cylinder. Valid where Econergy® installed to specifications listed in installation manual.

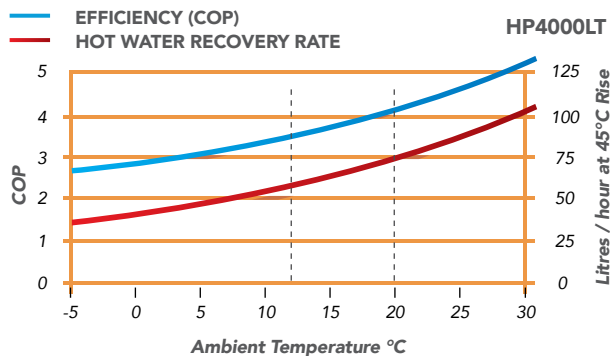
# Econergy® - New Zealand's most efficient water heater

## ANNUAL ENERGY CONSUMPTION MARKET COMPARISON



Source: EECA independent test data 31 May 2011

## EFFICIENCY (COP) HOT WATER RECOVERY RATE



- The only heat pump water heater given the tick by Consumer – highest savings on the NZ market
- Patented Single Pass technology for maximum durability and savings
- Epoxy coated evaporator, powder coated aluminum base and stainless steel fasteners give highest durability in NZ conditions
- Each unit is tested through several heating cycles before leaving our Auckland factory
- Full heat pump operation right down to -5°C, without boosting from an electric element

The Efficiency and Hot Water Recovery Rate graph shows if it is 20°C outside the red line indicates a recovery rate of almost 75L per hour. The blue line indicates a co-efficient performance of over 4 (400%). This means for every unit of electricity consumed by the heat pump you get 4 units of heat energy delivered to your cylinder.

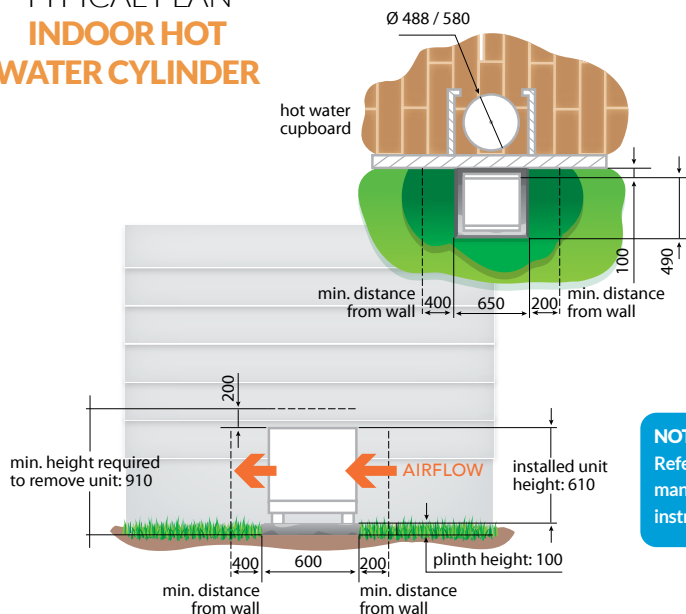
New Zealand's air temperature tends to be cooler. At 12°C the graph indicates a recovery rate of 60L per hour and a co-efficient performance of over 3.5 (350%). At this rate every unit of electricity used by the heat pump provides 3.5 units of heat energy delivered to your cylinder.

## Flexibility of placement

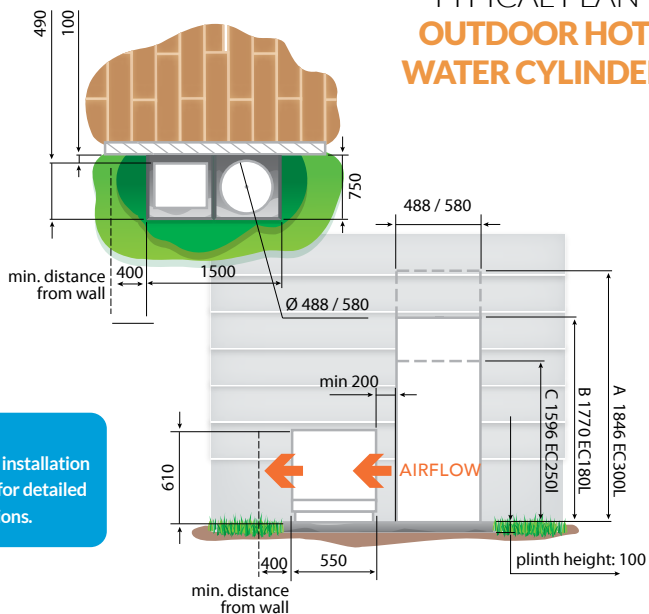
The Econergy® system can be mounted flexibly to suit the house design and layout. The hot water cylinder may be mounted internally or externally. The Econergy® heat pump unit may be mounted outside the building envelope, or in the ceiling cavity. Econergy® recommends indoor mounting of hot water cylinders wherever possible to reduce heat loss from the cylinder and allow proximity to point of use. Econergy® hot water heaters can also be mounted outside where inside space is limited.

## Installation dimensions

### TYPICAL PLAN INDOOR HOT WATER CYLINDER



### TYPICAL PLAN OUTDOOR HOT WATER CYLINDER



**NOTE:** Refer to installation manual for detailed instructions.

# Specifications - Heat Pump Water Heaters



## GENERAL

<b>Model</b>	HP4000LT
Height	520mm
Width	490mm
Depth	550mm
Weight	50kg
Noise Rating	52 / dBa@1.5m
Min. Circuit Breaker Size	16amps
Rated Current RLA	4amps
Refrigerant	R-134a

## EXCLUSIVE ECONERGY® PERFORMANCE GUARANTEE

Every Econergy® water heater is backed with a comprehensive performance guarantee for six years. We guarantee the Econergy® unit will deliver minimum 66% savings compared with a standard electric hot water cylinder.†



† Guarantee valid where Econergy® water heater is installed and certified to latest version of installation manual. Guarantee void where operated outside instructions and specifications or on a hard or corrosive water supply. \* 6 year guarantee applies to single family domestic dwelling. 2 year guarantee will apply in all other situations.

## Econergy® heat pump ready cylinders

Our storage cylinder range is specially designed to connect to your Econergy® water heater. Cylinders are constructed from **stainless steel** for a long and trouble-free lifespan and meet or exceed NZ Minimum Energy Performance Standards (MEPS) requirements as specified in AS/NZS4692:2002. Temperature sensors are built-in. The exterior of the cylinder is weather-proofed so that the cylinders can be sited outdoors or indoors.

**10 year manufacturer's warranty.** Larger custom cylinders are available on request.

		EC180L	EC250L	EC300L
Nominal Storage Capacity	L	180	250	300
Inlet & Outlet Connections	inches/mm	RP3/4"/20	RP3/4"/20	RP3/4"/20
Heat Pump Connections	inches/mm	RP3/4"/20	RP3/4"/20	RP3/4"/20
Relief Valve Setting	kPa	1000	1000	1000
Working Pressure (max)	kPa	700	700	700
Element Rating	kW	3	3	3
Diameter	mm	488	580	580
Height	mm	1770	1596	1846
Weight	kg	37.5	51.5	61
Sensor Locations		Top/Bottom	Top/Bottom	Top/Bottom

\*Specifications are subject to change at anytime

## WATER SUPPLY / CONNECTIONS

	HP4000LT
Min. Supply Pressure	50kPa
Max. Supply Pressure	1000kPa
Flow/Return Connections	RP1/2/15 "/mm
Condensate Drain	15mm

## PERFORMANCE SPECIFICATIONS\*

	HP4000LT
Heat Output	3500W
Rated Input	930W
Recovery Rate	67L/hr
Efficiency (COP)	3.8W/W
Annual Energy Savings - Zone 5*	73.8%
Annual Energy Savings - Zone 6*	71.1%

\*Rated at EN255 Conditions (60°C / 15°C / 15°C) 70% RH

\*Zone 5 - North Island, excludes Taupo region

\*Zone 6 - South Island, and Taupo region



ECL180L

ECL250L

ECL300L

YOUR LOCAL RESELLER:

# Econergy®

The smarter way to heat water™

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www.econergy.co.nz



Advancing Water Heat Pump Technology SINCE 1980

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