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# THERMA GENIUS<sup>INT</sup>

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IN-HOME  
ECOSYSTEMS  
**LEAP**

INTEGRAL HEAT PUMP WATER HEATING SYSTEM (INDOOR)

Welcome to LEAP: In-Home Ecosystems, the leading name in advanced water and energy systems in Australasia.

LEAP aims to improve customers' lives with innovative, sustainable, environmentally responsible water and energy systems that deliver superior performance, without costing the earth.

We take responsibility for the environment by sourcing and developing products that are more efficient – putting less strain on natural resources.

We are proud of our ability to actively design, develop and engineer new systems to tackle and solve old problems in new ways – we call it 'challenging the status flow'.

# THERMAGENIUS:

USES RENEWABLE ENERGY TO HEAT WATER



**THERMAGENIUS Integral Heat Pump Water Heater extracts renewable energy stored in the air to heat water. THERMAGENIUS is not dependent on weather and operates throughout the year even during cold winter nights. With high efficiencies, payback on a THERMAGENIUS can be extremely quick.**

Unobtrusive, easy to install and cheap to run, a THERMAGENIUS Heat Pump Water Heater is a smart way to provide hot water for the home. The only energy used by a THERMAGENIUS is electricity to power the pumps – electricity that delivers three or four times its value in heat output.

THERMAGENIUS Integral Heat Pump Water Heaters are air-source models. Air-source heat pumps extract heat energy stored in the air. They operate like a refrigerator

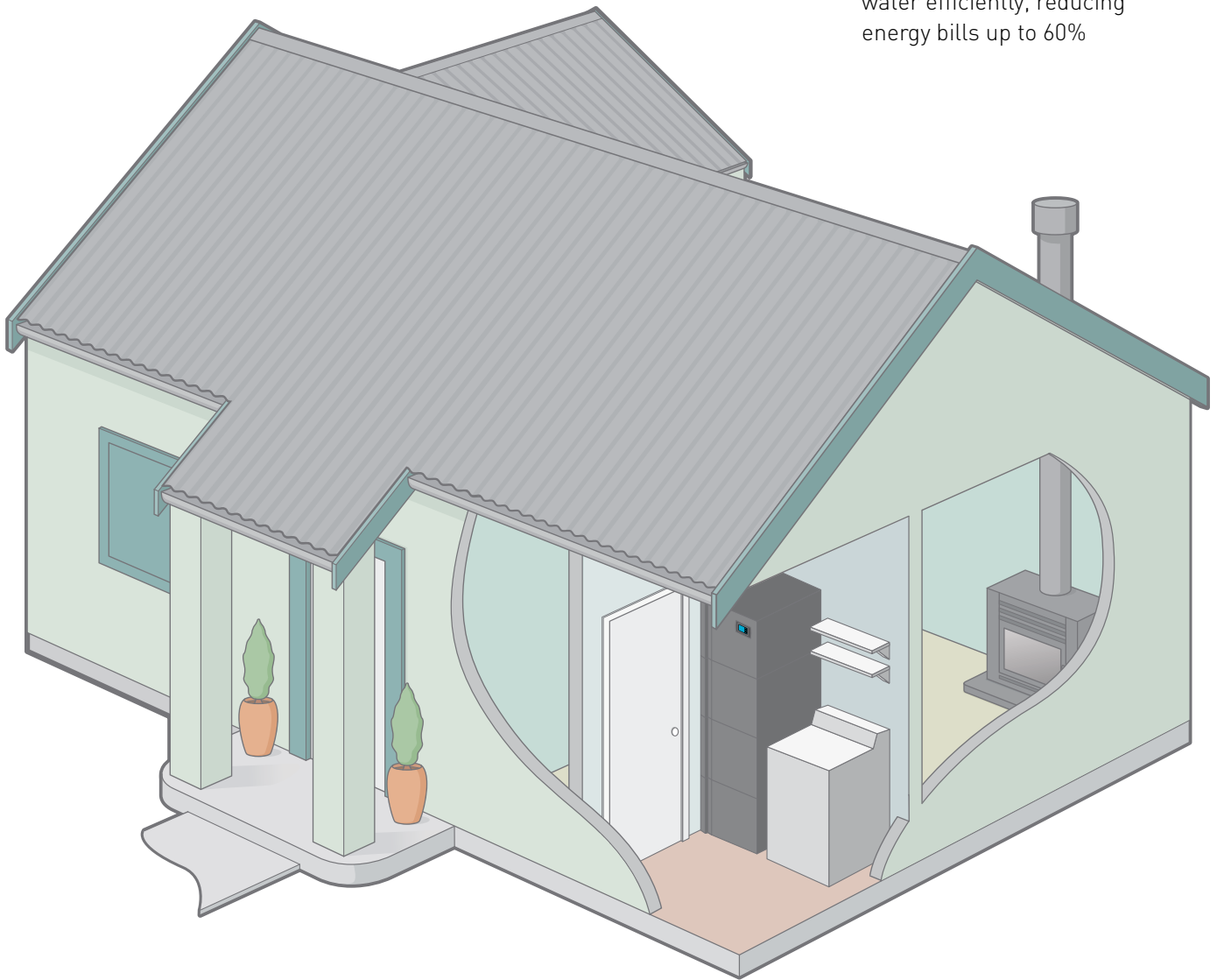
in reverse, transferring low temperature energy to a refrigeration loop, compressing the refrigerant to high temperatures, and transferring this heat to the hot water and/or heating distribution systems.

The THERMAGENIUS Integral Heat Pump Water Heater is an impressive new model, containing a 300 litre Stainless Steel Hot Water Cylinder integrated into the unit. A THERMAGENIUS Integral Heat Pump Water Heater makes conversions from gas water heating simple, easy and affordable.

# THERMAGENIUS AT A GLANCE

- **RETROFITTING** to existing hot water or home hydronic heating systems is easy and inexpensive. A THERMAGENIUS Integral Heat Pump Water Heater also offers a quick and easy conversion from gas systems

- **USES FREE NATURAL ENERGY** from the air to heat water efficiently, reducing energy bills up to 60%



- **FEW MOVING PARTS**  
reducing wear and tear  
and maintenance costs

- **EXTREMELY QUIET**  
– noise levels less than  
48dB(A) makes this unit  
extremely quiet

- **LARGE 300 LITRE CYLINDER**  
combined with a Heat Pump Water  
Heater makes for a great water  
heating solution – and will fit in  
anywhere in your home

# WHY THERMAGENIUS IS BETTER

## EFFICIENT

A THERMAGENIUS Integral Heat Pump Water Heater draws approximately 1/3 to 1/4 of the electricity of standard electrical hot water elements for the same amount of heating, reducing utility bills and greenhouse gas emissions accordingly. Heat pumps are more efficient than oil, gas, and electric resistance heating in climates such as New Zealand or Australia.

## CONNECTS TO EXISTING PLUMBING

A THERMAGENIUS Integral Heat Pump Water Heater can be connected to existing under floor heating or other home hydronic heating systems. Converting from a gas system is easy with a THERMAGENIUS.

## GUARANTEED

Because of its unique design and construction, THERMAGENIUS Integral Heat Pump Water Heaters are guaranteed against material or manufacturing defects for 5 years.

## SUITABLE FOR COLD LOCATIONS

Some heat pumps can lose efficiency if they're installed in a region with temperatures typically lower than 5°C. This is because winter frost builds up on the outdoor heat exchanger coils, which prevents the unit from heating water efficiently. The THERMAGENIUS Integral Heat Pump Water Heater uses a highly efficient active de-icing method to stop this from occurring. An added benefit is that this method uses approximately 60% less energy than traditional de-icing systems.

## AUTOMATED TO RUN EFFICIENTLY AND SAFELY

Multiple sensors and switches have been incorporated into a THERMAGENIUS Integral Heat Pump Water Heater to ensure the unit isn't damaged in the unlikely event of a malfunction. Such devices include compressor time delay protection (which ensures motor temperatures are correct during start phase), sensor fault protection for water, evaporator and ambient air temperatures and water flow protection to ensure adequate flow.

## INTELLIGENT CONTROLLER

THERMAGENIUS Integral Heat Pump Water Heaters come with an intelligent controller allowing users to manage operation of their system including timers for "on and/or off" functions, features to integrate with other heating devices such as solar or backup electricity.

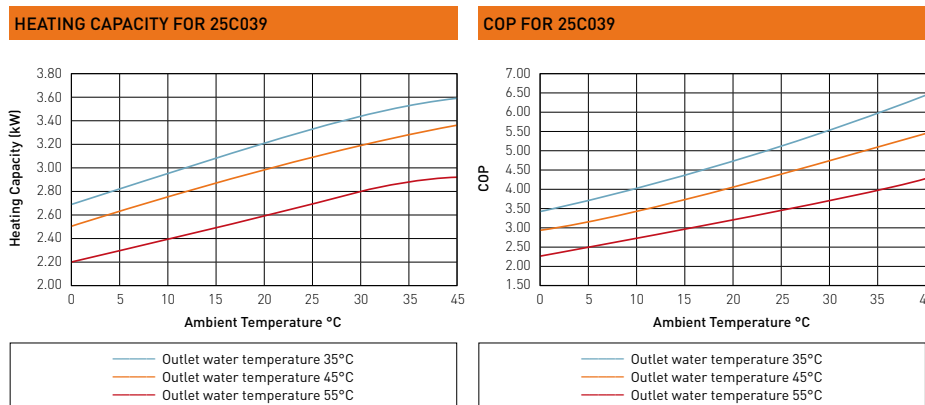
# TECHNICAL DETAILS

COP's (Coefficients Of Performance) for THERMAGENIUS Heat Pumps range from 3 to 4 compared to 1 for a resistance heater and 0.7-0.95 for a fuel-powered boiler.

H2 rated system – a THERMAGENIUS offers users superior performance even on the coldest day of winter in most parts of New Zealand and Australia.

<b>MODEL:</b>	<b>25C039</b>
Maximum Water Temp:	60°C
Heating Capacity:	2.6kW
Refrigerant:	R410A
Refrigerant Charge:	0.6kg
Rated Power Input:	0.8kW
Electricity Protection:	CLASS 1
Power Supply:	220V/1Ph/50Hz
Running Current:	7.7A
Ingress Protection:	IPX0
Weight:	110kg
Dimensions (mm):	600(L)x630(D)
Height	1850(H)
Tank Capacity:	300L
Tank Pressure:	0.7mpa
Maximum Water Pressure:	1.0mpa
Noise:	≤49dB(A)

**NOTE:** THERMAGENIUS Heat Pump Water Heaters are also available as a split system - please enquire for more information.



**NOTE:** Test results based on data from Manufacturer. May be subject to change.

**PLEASE NOTE:** This information is only a summary. Your plumber will need to contact a LEAP supplier for a copy of the Installation Manual which has other important information.

# OTHER LEAP SYSTEMS



## MANIFOLD PLUMBING SYSTEM

MANIFLOW saves energy and conserves water by having a dedicated pipeline from a manifold near the hot water cylinder to each tap or fixture in the house. Hot water goes straight where it's needed without sitting round cooling in the big 'feeder' pipes needed to serve multiple outlets. Less energy and water is wasted, as hot water arrives faster at the tap. Flexible and non-metallic pipes result in a quiet and efficient plumbing system that doesn't suffer corrosion, scaling or microbial build-up.



## HOT WATER CONTROL SYSTEM

SAFETEMP is the reliable and convenient way to ensure water temperatures at your ablutionary fixtures, bath, shower and basin are safe. Its unique design keeps tap temperatures at a safe level, using a special cartridge that detects incoming water temperatures and adjusts the blend. The failsafe mechanism shuts off supply if there's no cold water. Its unique design and construction means it's guaranteed for 5 years – currently the only safety valve guaranteed for so long.



## HYDRONIC HEATING SYSTEM

TERRATHERM is a highly effective and unobtrusive way to radiate comfortable, healthy warmth through your home. TERRATHERM pipes in heat via hot water circulated through flexible underfloor pipes. The system delivers warmth that starts at ground level then slowly rises. TERRATHERM is built-in, involving no unsightly heaters, panels or vents. Its zone-by-zone controls also let you manage your home heating more efficiently, ensuring heat goes where and when it's needed.



## SOLAR WATER HEATING SYSTEM

SOLARGENIUS water heating system harnesses clean, free solar energy to heat water quickly and effectively, even on cloudy days. Solar water heating systems are commonly installed in both new and existing homes, especially when renovating. SOLARGENIUS systems are lightweight, easy to install solar water heaters that can save households between 40% and 75% on hot water bills.



## HOME FIRE SPRINKLER SYSTEM

BLAZESTOP is an affordable sprinkler system linked to a domestic water supply, putting the reassurance of sprinkler protection within reach of private homeowners. Designed especially for the home environment, BLAZESTOP uses sprinkler heads concealed in the ceiling. Flexible, concealed piping makes retrofitting into homes easy and cost-effective. Made from durable polybutylene, it isn't affected by scaling, corrosion, or microbiological growth and doesn't transmit noise.



## WASTEWATER SYSTEM

FRESHFLOW combines the advanced HepvO self-sealing waterless waste valve with easy to install flexible HepFlex Waste piping. This innovative system replaces space-hungry S or U traps with a hygienic valve that provides an effective and reliable barrier against sewer gases escaping into a building. As well as its space-saving advantages, FRESHFLOW leaves no standing reservoir of water which can stagnate and lead to bacterial or fungal growth.

FOR MORE INFORMATION ABOUT THERMAGENIUS INTEGRAL CALL

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