

THERMAGENIUS



INTEGRAL HEAT PUMP WATER HEATING SYSTEM (OUTDOOR)

USES RENEWABLE ENERGY TO HEAT WATER

- **RETROFITTING** to existing hot water 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, reduces hot water heating costs by up to 60%.
- **LARGE HOT WATER CYLINDER (270L)** combined with a Heat Pump Water Heater makes for a great water heating solution – and can be installed outside your home (subject to the ability to complete necessary plumbing work).



- **EXTREMELY QUIET** – noise levels less than 52dB(A).
- **FEW MOVING PARTS** reducing wear and tear and maintenance costs.

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 very quick.

Unobtrusive, easy to install and cheap to run, a THERMAGENIUS Integral 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 between 2 and 4 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 systems.

The THERMAGENIUS Integral Heat Pump Water Heater is an impressive new model, containing a 270 litre enamel lined 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.

WHY IS A THERMAGENIUS INTEGRAL 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 (depending on ambient temperature and humidity, and incoming water temperature). Heat pumps are more efficient than oil, gas, and electric resistance heating in climates such as New Zealand.

CONNECTS TO EXISTING PLUMBING

A THERMAGENIUS Integral Heat Pump Water Heater can be easily retrofitted or connected to existing plumbing. 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.

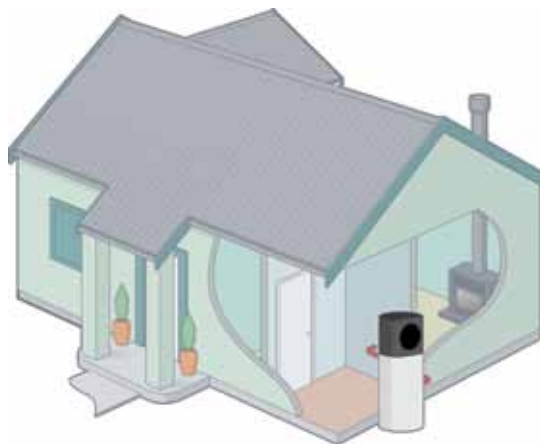
SUITABLE FOR COLD LOCATIONS

Some heat pumps can lose efficiency if they're installed in a region with temperatures typically falling to 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.

TECHNICAL DETAILS



COP's (Coefficients Of Performance) for THERMAGENIUS Heat Pumps range from 2 to 4 compared to 1 for a resistance heater and 0.7-0.95 for a fuel-powered boiler.

A THERMAGENIUS offers users superior performance even on the coldest days of winter in most parts of New Zealand and Australia.

MODEL:	25C038
Maximum Water Temp:	60°C
Rated Outlet Water Temp:	55°C
Heating Capacity:	3.4kW
Heating Power Input:	0.94kW
Rated Power Input:	2.63kW
Heating Current Input:	3.92A
Rated Current Input:	11A
Electric Booster:	1.5kW
Power Supply:	240V/1Ph/50Hz
Running Current:	<6A
Moisture Resistance:	IPX4
Electrical Shock Proof:	I
Refrigerant/Proper Input:	R134A/1450g
Water tank water pressure:	0.7MPa
Water tank max water pressure:	0.85MPa
Water inlet/outlet pipe:	¾ inch
Operation pressure (low):	1.3MPa
Operation pressure (high):	2.1MPa
Net Weight:	157kg
Dimensions (mm):	560 (D) x 1917 (H)
Tank Capacity:	270L
Noise:	<52dB(A)

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

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.

FOR MORE INFORMATION
ABOUT THERMAGENIUS
INTEGRAL CALL:

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