



The hot water heat pump delivering reliable hot water to Kiwi homes – since 2013





Make the Switch to AquaCore

Just as heat pump technology transformed space heating across New Zealand, it's now revolutionising domestic hot water.

Whether you are looking to install a new system or want to keep your existing electric hot water cylinder, reducing your power bill has never been easier with an AquaCore domestic hot water heat pump.

AquaCore delivers an impressive COP of 3.6^{*1}, reducing hot water energy costs by up to 80%^{*2}.

It's a smart, future-proof alternative to gas or traditional electric systems as energy prices continue to rise.

The secret to AquaCore's performance lies in how quickly it heats your tank. Unlike conventional electric elements, AquaCore heats from the top down, meaning even with a mostly cold cylinder, you can enjoy enough hot water for a shower in as little as 20 minutes.

^{*1} COP tested to AS/NZS 5125 with a high draw off load.

^{*2} Savings can vary based on energy prices, usage, installation and ambient temperature.



Yes, You Can Keep Your Existing Hot Water Cylinder!

While AquaCore is an excellent option if you are looking for a new hot water heat pump system, one of its key advantages is flexibility.

If your existing electric cylinder is still in good condition, you can keep it and avoid the cost of a full replacement. This means:

- **Minimal disruption during installation**
- **Extended life of your existing cylinder**
- **Reduced labour costs**

A Decade of Proven Performance in Real New Zealand Winters

Trusted in Kiwi homes since 2013, AquaCore is purpose-engineered for New Zealand's cold conditions, delivering reliable hot water all year round.

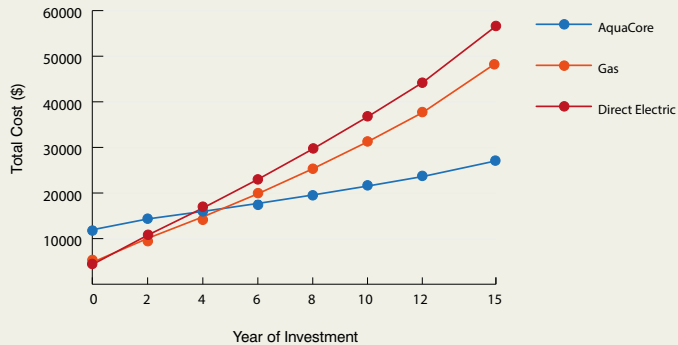
- **Consistent 62°C hot water with patented partial cascade technology**
- **Reliable operation down to -15°C**
- **Superior frost protection with no outdoor water pipes**





Start benefitting from low Domestic Hot Water heating costs with return on investment from 3 years*

Projected 15 Year Cost of Ownership



The return on investment when compared to purchasing a standard electric cylinder or gas boiler is generally under 5 years and **could be as low as 3 years***.

If you have a MEPS compliant existing electric cylinder, then retrofitting the AquaCore can save on installation costs.

* ROI based on an Auckland home with 4 people using MBIE energy pricing data and estimated installation costs and electricity and gas charges year on year. Actual ROI can vary depending on water usage, electricity provider charges, installation cost. This is an estimate only.

Why Heat a Whole Cylinder When You Don't Need To?

Conventional electric hot water cylinders are designed to continuously heat and re-heat the entire tank to maintain a set temperature. This means you're paying to keep water hot 24 hours a day, 7 days a week, even when no one is using it.

Furthermore, traditional systems use electric immersion elements located at the bottom of the cylinder. Because cold water enters at the bottom, it can take hours for hot water to rise to the top of the tank where it's actually drawn off.

AquaCore Works Differently and Smarter

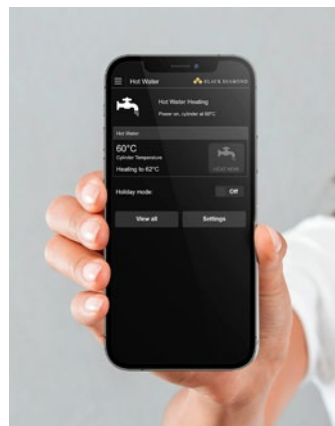
With AquaCore, water is heated to 62°C by the indoor unit and pumped directly into the top of the cylinder. As a result, the full tank doesn't need reheating, delivering hot water faster when it's needed most.

- **Hot water in as little as 20 minutes**
- **Ideal for larger families and high water use households**

Maximise Energy Savings with Wi-Fi Control

Stop heating water you're not using. With connectable Wi-Fi Control you can heat water only when needed, check tank temperature remotely, and trigger a reheat before you get home, ensuring hot water is always ready, even for unexpected guests.

Create schedules that suit your lifestyle, or take advantage of off-peak or free power periods to reduce energy costs without compromising comfort.



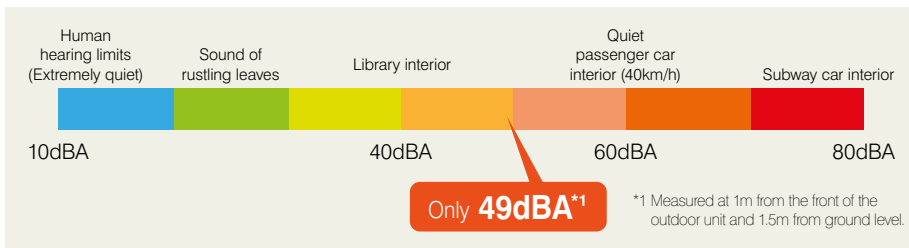
Wi-Fi
CONTROL
connectable[†]

[†] Ensure that your AquaCore unit has a wired ethernet connection to your homes wireless router. This should be discussed with your installer and setup at the time of installation.

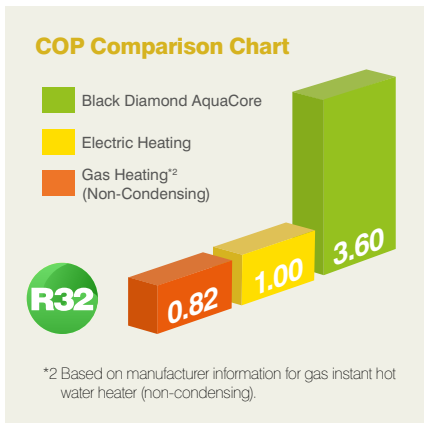


Quiet, Compact, Neighbour-Friendly Design

The low profile AquaCore outdoor unit has a compact footprint that's easy to place discreetly, with greater installation flexibility making it ideal for high density housing.



What Does COP Mean for a Hot Water Heat Pump?



AquaCore has a COP of up to 3.6*³ under relevant test conditions. In practical terms, this means AquaCore can deliver up to 3.6 times as much heat energy into the water as the electrical energy used to run the system. Actual performance can vary depending on outdoor temperature, airflow, installation design, cylinder setup, hot water demand, and system settings.

*3 COP tested to AS/NZS 5125 with a high draw off load.

The System

Outdoor Unit

Absorbs freely available energy from the air with a super-efficient COP of 3.6*³. This can reduce hot water heating costs by up to 80%*⁴ compared to traditional direct electric cylinders. Compact and quiet, the outdoor unit fits seamlessly outside your home.



Heat Exchanger

The Black Diamond AquaCore unit is manufactured locally and specially designed for New Zealand conditions. Acting as an intermediary between the refrigerant and water systems, the AquaCore indoor unit is packed with intelligent control systems, an easy to use interface and compatibility with Wi-Fi Control, all packed into a discrete and easy to install unit.



Cylinder

Works with existing or new hot water cylinders up to 400L, no replacement required. Designed to be flexible in its installation, the AquaCore Hot Water Heat Pump can be paired with almost all existing mains pressure systems to efficiently heat potable hot water to 62°C.



*3 COP tested to AS/NZS 5125 with a high draw off load.

*4 Savings can vary based on energy prices, usage, installation and ambient temperature.

Specifications

SYSTEM SPECIFICATION			
Operating Characteristics	Rated Capacity	[kW]	3.2
	Flow Rate Range	[L/min]	0.6 - 2.4
	Outdoor Temperature	[°C]	-15 to +46
	Flow Temperature Setting	[°C]	55 to 63
	Water Input Temperature Range	[°C]	5 to 55
	Maximum Working Water Pressure	[kPa]	500
	Water Pump Maximum Head	[m]	5
Power Supply	Power Supply	–	230V / 1ph / 50Hz
	Maximum Current	[A]	15
Refrigeration	Refrigerant Connection	[mm]	6.35 / 9.52
	Refrigerants (OD/ID)	–	R32 / R134a
Indoor Unit	Charge (OD/ID)	[g]	700 / 190 ± 10
	Dimensions (W x D x H)	[mm]	460 x 240 x 460
	Weight	[kg]	23.1
	In / Out Water Connections	[inch]	½
Outdoor Unit	Dimensions (W x D x H)	[mm]	800 x 285 x 550
	Weight	[kg]	34
	Sound level*1	[dBA]	49

*1 Measured at 1m from the front of the outdoor unit and 1.5m from ground level.

PERFORMANCE SPECIFICATION*2			
Conditions	Ambient 19°C, Water in 14°C	Ambient 7°C, Water in 8°C	Ambient 1°C, Water in 8°C
COP	3.6	3.0	2.4

*2 Rated in accordance with AS/NZS 5125.

PUBLISHED AUG 2026