Carrier BLUE

R290 ECO FRIENDLY

Air with Care

The heatpump with the only 10year warranty

HOTWATER

USES UP TO
77% LESS ENERGY1

Harvest the free energy from our plentiful air to heat your water with the advanced Carrier heat pump from Carrier. This renewable energy water heating technology uses up to 77% less energy1 than a conventional water heater, whilst providing reliable hot water all day and night.

Features

Modern & Stylish

A stylish slim line single piece unit incorporates a top-mounted compressor with compact footprint

Highly Efficient

Generates considerably more heat energy than the energy consumed, leading to savings on purchased energy.

Handy Controller

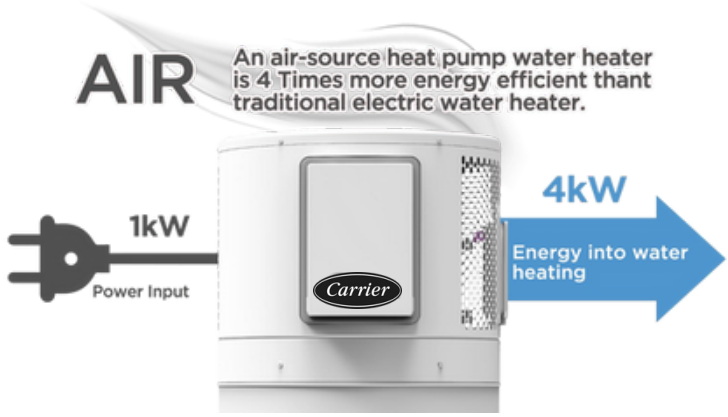
Providing intuitive operation & helpful functions such as temp setting, timer & safety lock

Built in Frost Protection

Protecting the condenser from icing for complete peace of mind

Smart Technology

Heat pumps utilise an ingenious technology to efficiently transfer thermal energy directly from the surrounding air and into the water, and so do not rely on direct sun or fossil fuels to provide an energy source.

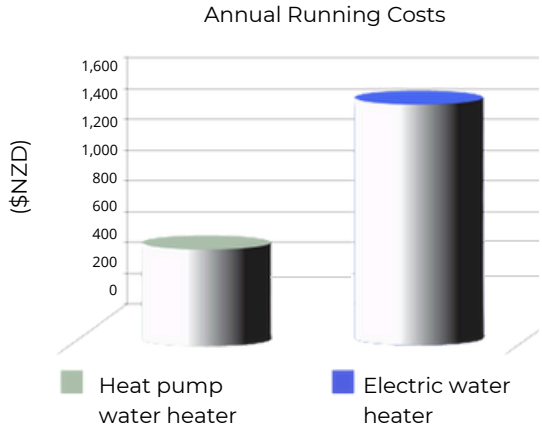


Did you know?

A heat pump is like an energy multiplier. From 1 kW of power input, it can create over 4 kW's of output heat2. That's a performance efficiency of a remarkable 400%. Where as conventional electric storage water heaters can only convert 1 kW of input power into a maximum of 1 kW of output heat.

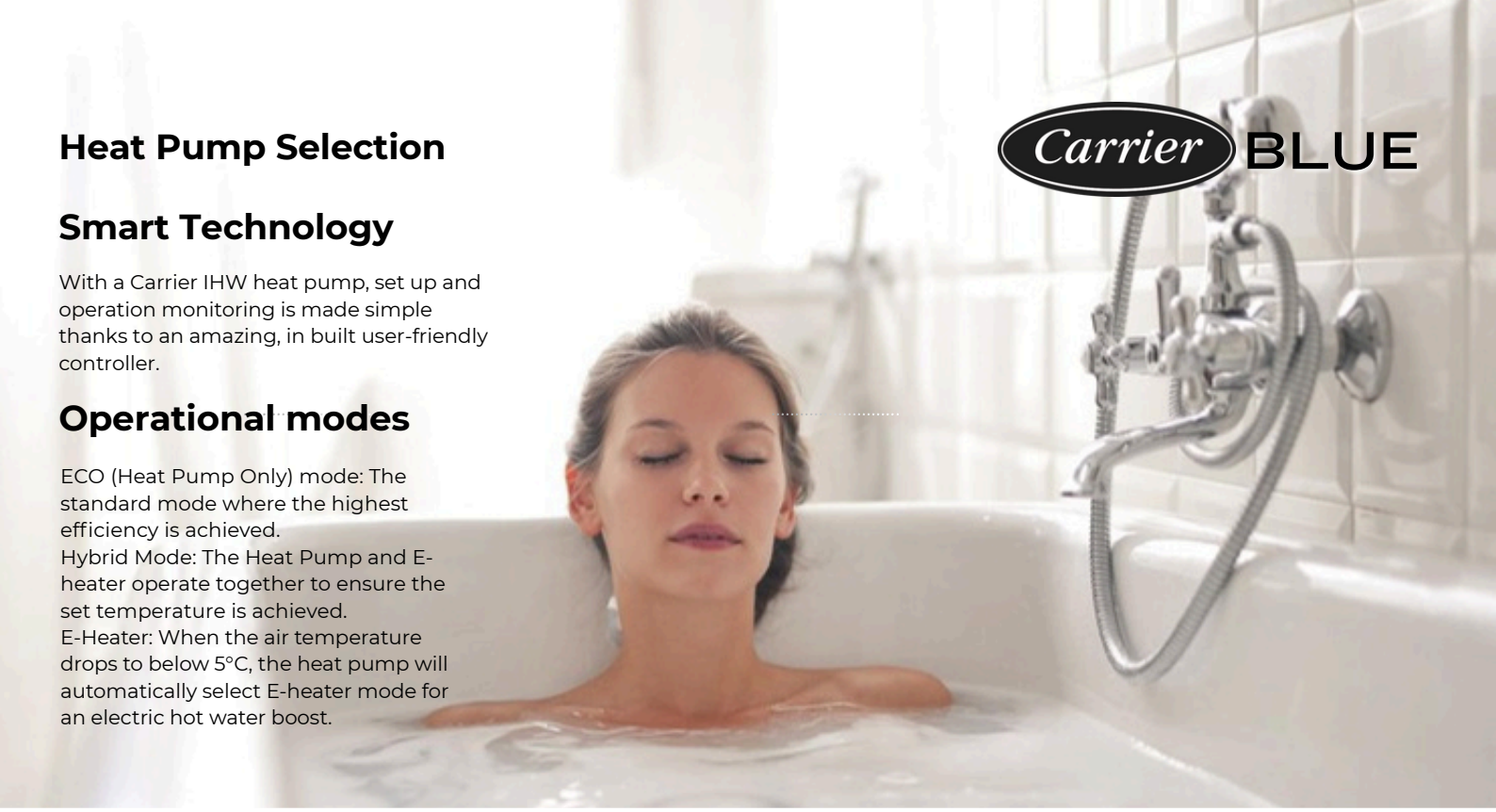
Energy Efficiency

Did you know?
Water heating accounts for nearly a quarter of the energy use and greenhouse gas emissions in the average kiwi home.



*Estimation based on IWH280L STC's in Zone 3 under medium load, obtained from independent laboratory test results and followed by TRNSYS modelling and a retail electricity cost of $0.30c per kWh.

Heat Pump Selection



Smart Technology

With a Carrier IHW heat pump, set up and operation monitoring is made simple thanks to an amazing, in built user-friendly controller.

Operational modes

ECO (Heat Pump Only) mode: The standard mode where the highest efficiency is achieved.
Hybrid Mode: The Heat Pump and E-heater operate together to ensure the set temperature is achieved.
E-Heater: When the air temperature drops to below 5°C, the heat pump will automatically select E-heater mode for an electric hot water boost.

Features

Wide Operating Range

Operates as low as 5°C in ECO mode & between -20°C & 45°C with additional E-heat boost

Power Outage Memory

Settings are retained in the event of a power outage

Low Operating Noise

Operating at a very low 48/49 dBA you will hardly know it's there!

Auto Disinfection

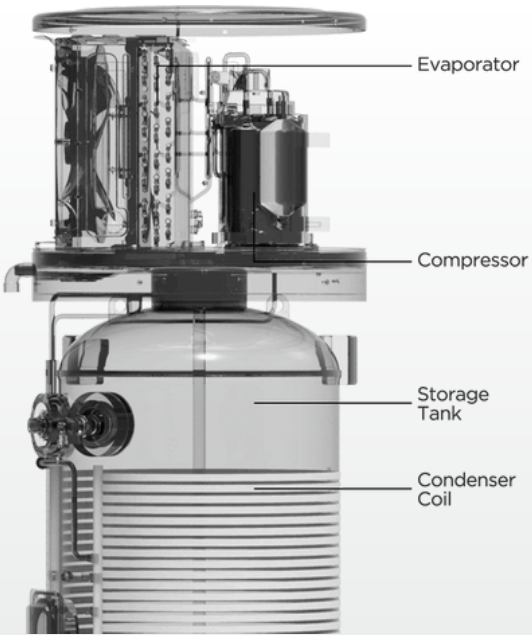
Periodically heating the water beyond its set temp to prevent the growth of bacteria and legionella

Tank-Wrapped Condenser Coil

For efficient heat transfer & preventing water contamination

How it works

integrated HP(HEAT PUMP)+WH(WATER HEATER) together in one box.



Step 1: A fan draws in air, containing heat energy, across the evaporator. The evaporator turns the liquid refrigerant into a gas.

Step 2: The compressor pressurisesthe refrigerant into a hot gas.

Step 3: The hot gas inside the condenser coil heats the water inside the coil-wrapped tank. The refrigerant reverts back to a liquid after heating the water and continues to the evaporator for the process to start again.

Save up to

13 TONNES*

CO2 Emissions

*Calculation of CO2e is refer to Victorian Energy Program's modelling (10 years of use); Applicable to 280L heat pump model.

Solar PV Ready

The Suns free energy is the best resource in the world and households and businesses continue to install rooftop solar at world leading rates. Carrier Heat Pump Water Heater surplus solar energy generated by your Solar PV system can be stored in the tank. In PV mode, the heat pump water heater receives a signal from the Solar PV system, notifying it that generated energy is available to use. It uses the available Solar PV energy to heat water and store it for later use.

Easy to maintain: Built for Kiwi Conditions

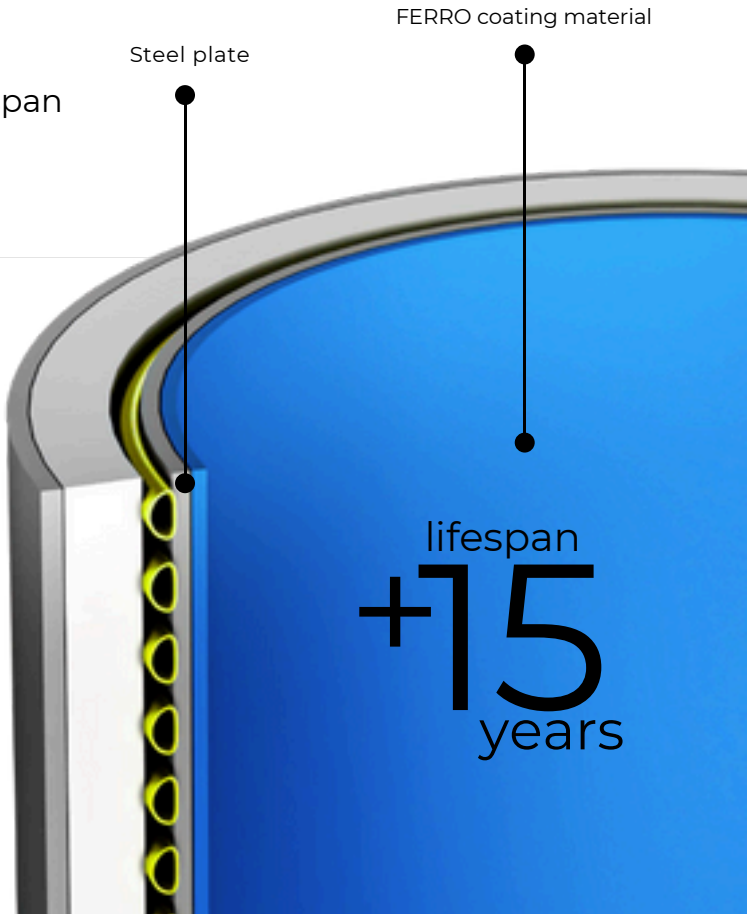
Runs at -20℃ & 47℃ and delivers all year round comfort

-20° C

47°C

Unique Technology

Blue-Diamond Enamel Tank with +15 years lifespan



High impact strength
More than 800 thousands of impact tests

Strong corrosion resistance
500-hour acid resistance test standard with 2 Mg+anodes)

High adsorption capacity
Tank coating materials from international famous brand FERRO, adhere to the tank tightly

High pressure bearing strength
Dedicated steel helps ensure the strength under pressure

Top manufacturing technology
International cutting-edge enamel manufacturing process German famous EISENMAN professional production line

Easy to Maintain:

Carrier BLUE

Electric Magnesium Bar

Guarantee permanent replacement-free and no scale will be produced to ensure healthy water quality.

Physical Magnesium Bar

1-2 years

as the typical replacement cycle

1960g

of scale will be accumulated during usage

Easy-to-access E-BOX Designed for easier maintenance without complicated disassembly of the top cover of the unit.

Error Code:
Quick checking out on-going problem and backtracking previous problems up to 3 times before.

Easy-to-access E-BOX Designed for easier maintenance without complicated disassembly of the top cover of the unit.

Got You Covered with Two-Way Disinfection

Automatically Disinfection

Periodically (24 hours) heating up the water by 60°C to prevent the growth of bacteria and legionella.

Manually Disinfection

set temperature(60 C) for rapid sterilization.

SPECIFICATION

Carrier BLUE

Model			DHW-190N7		DHW-300N7	
Running models			Heat pump	E-heater	Heat pump	E-heater
Running ambient temp.		℃	-7~43	-20~47	-7~43	-20~47
Outwater Temp.		℃	Default 60℃,55℃~70℃		Default 60℃,55℃~70℃	
Power supply		Ph-V-Hz	1-220~240-50		1-220~240-50	
Storage size		Ltr	190		300	
Water heating	Capacity	kW	1.80	2.15	2.50	3.25
	Cop	kW/kW	4.20	1.00	4.60	1.00
	Max. current	A	17.3		18.4	
Unit	Dimension (D×H)	mm	552*552*1692		650*650*1962	
	Net/gross weight	kg	95.5/119		138/170	
Sound pressure level		dB(A)	47		48	
Refrigerant type/quantity		kg	R290/0.29		R290/0.42	
Air flow		m³/h	540		830	
Compressor	Model		RDSN108V11TBZ		RDSM140V11TEZ	
	Type		Rotary		Rotary	
	Brand		GMCC		GMCC	
	Capacity	W	2150		2710	
	Input	W	513		641	
	Running Current	A	2.4		3.3	
	Capacitor	/	20μF/450V		25μF/450V	
Water pipeline	Water inlet pipe	mm	DN20		DN20	
	Water outlet pipe	mm	DN20		DN20	
	Drainage pipe	mm	DN20		DN20	
	PT valve joint	mm	DN20		DN20	
	Max. pressure	MPa	0.85		0.85	
Water Side Heat exchanger			Aluminum micro heat exch		Aluminum micro heat exch	
E-heater		kW	2.15		3.25	
Hot water yield		m³/h	0.052	0.062	0.071	0.093

10 YEARS WARRANTY

Residential Warranty

10-Year Residential Hot Water Warranty

Applicable to:

- Carrier Hotwater integrated Heatpump
- Supplied by AHI Carrier NZ on or after 1 June 2025
- Installed at residential premises within New Zealand

Coverage:

10 Year Parts Warranty for Cylinder, PCB and Compressor excluding Heat Exchanger * (See below)

5 Year Heat Exchanger Warranty (subject to water hardness test)

5 Year Labour Warranty

Warranty exclusions for any Corrosion / rust issues caused by Environment or Power supply issues.

Covers defects in materials and factory workmanship under normal residential use.

CE

WaterMark

works with alexa

works with Google Home

HOTWATER

Toshiba is committed in improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

Product specification in this Brochure are only indicative and are subject to change. These are not intended to be used in place of the engineering or installation databook / manual.
All specification and features are subject to change without prior notice.
All images provided in this catalogue are used for illustration purpose only.

Cooling and heating capacities mentioned are at standard operating conditions.

10-Year waranty on residential applications only.

Residential Warranty

Catalogue Part Number: 01052025
Date: May 2025

Equipment rates in accordance with GEMS 2019 Determination

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