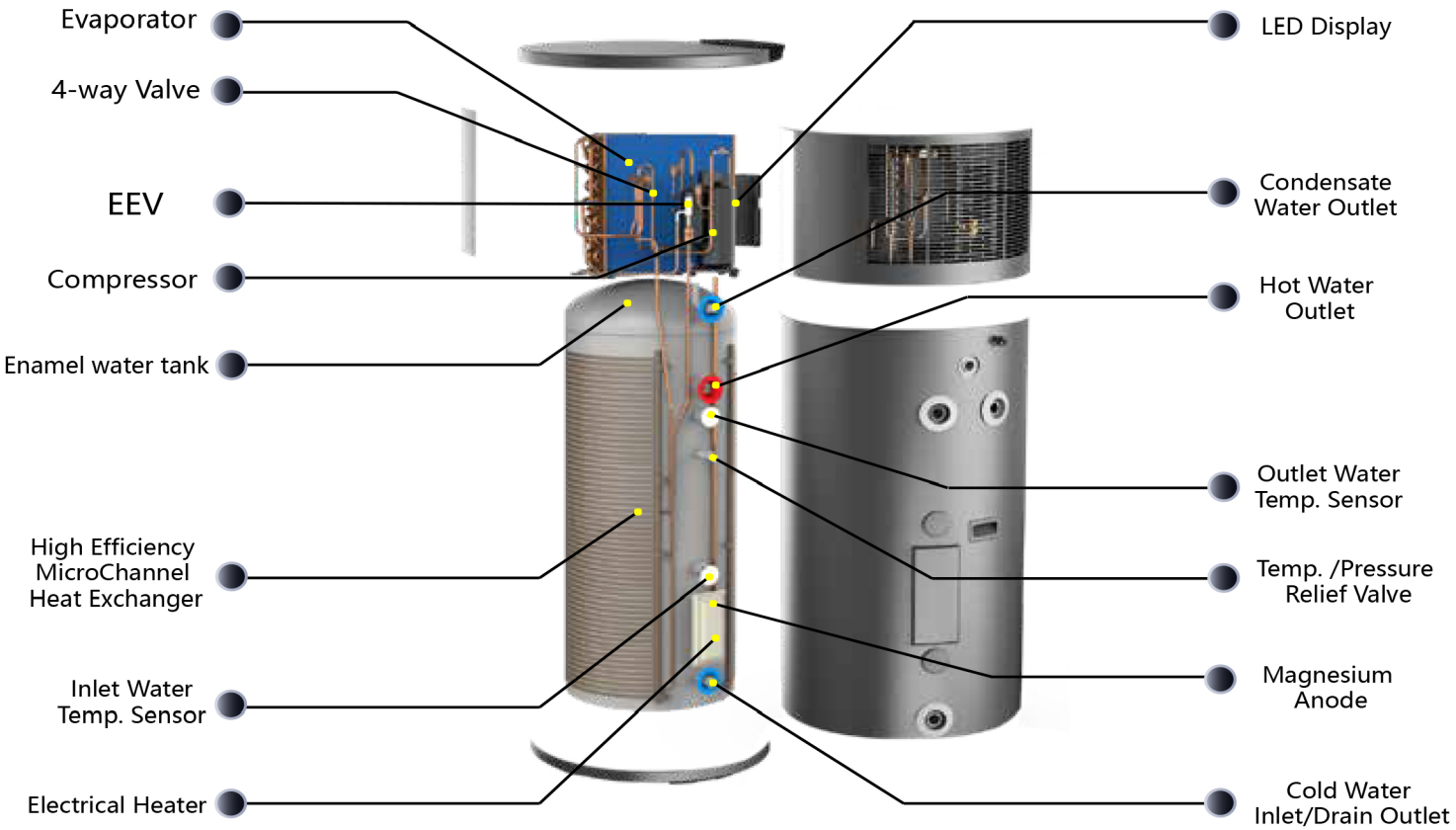
Technical Data



Model		LW 200L	LW 270L
Heating Capacity at Air 20°C /15°C, Water Temperature from 15 °C to 55°C			
Heating Capacity(kW)		2.78	2.78
COP		4.15	4.15
Max Input Power(W)		3000	3000
Max Input Current(A)		14	14
Power Supply		220-240v/ 50Hz	220-240v/ 50Hz
Heat Pump	Rated Power (W)	670	670
	Rated Current (A)	3.1	3.1
Electric Heater	Rated Power (W)	1800	1800
	Rated Current (A)	7.5	7.5
Refrigerant		R290	R290
Compressor		GMCC	GMCC
Net Dimension(mm)		Φ620×1520	Φ620×1840
Package Dimension(mm)		700×700×1565	700×700×1885
Net Weight (KG)		104	118
Gross Weight (KG)		120	136
Noise(dB)		43	43
Water tank volume (L)		200	270
Working temperature range (°C)		-7～43	-7～43
Testing condition: * Heating Capacity at Air temp. 20 °C / 15 °C, Water Temperature from 15 °C to 55 °C			

LIVINGWISE

Livingwise Heat Pump Water Heaters

These units are the future of heating water. The performance evaluation data below gives the most scientific modelling of how these actual units will perform under the New Zealand (Aotearoa) and Australian climate zones.

Executive Summary

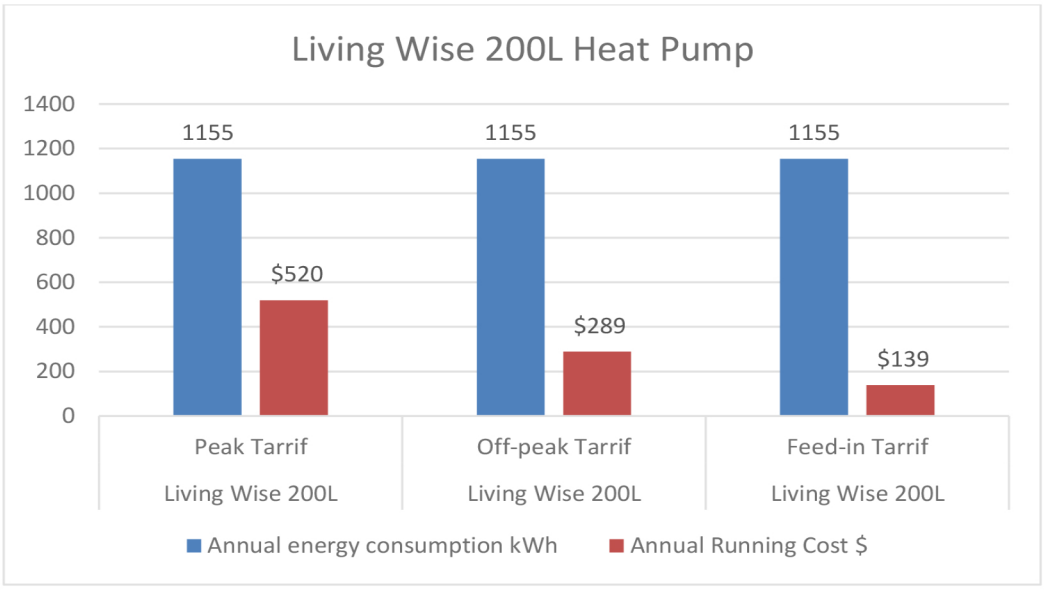
Living Wise Ltd has commissioned EnergyAE to evaluate the annual energy performance of the Living Wise LW200L heat pump water heater system in order to determine the energy efficiency of the system in NZ conditions. The system has been modelled according to AS/NZS 4234:2021 using climate zone 5 and 6 data for assessment of the water heater in NZ.

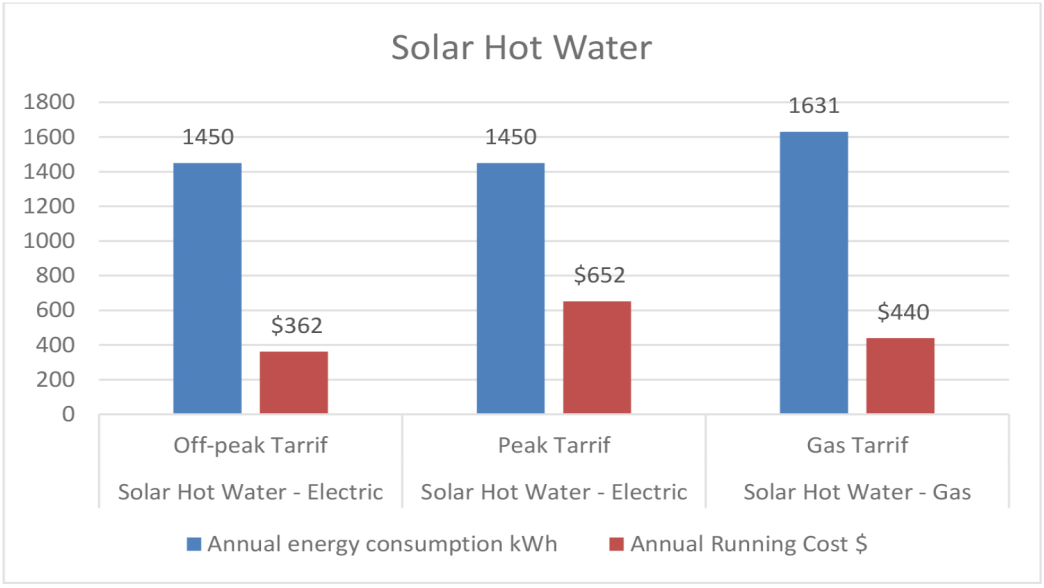
The results for the calculation are shown below in Table 1.

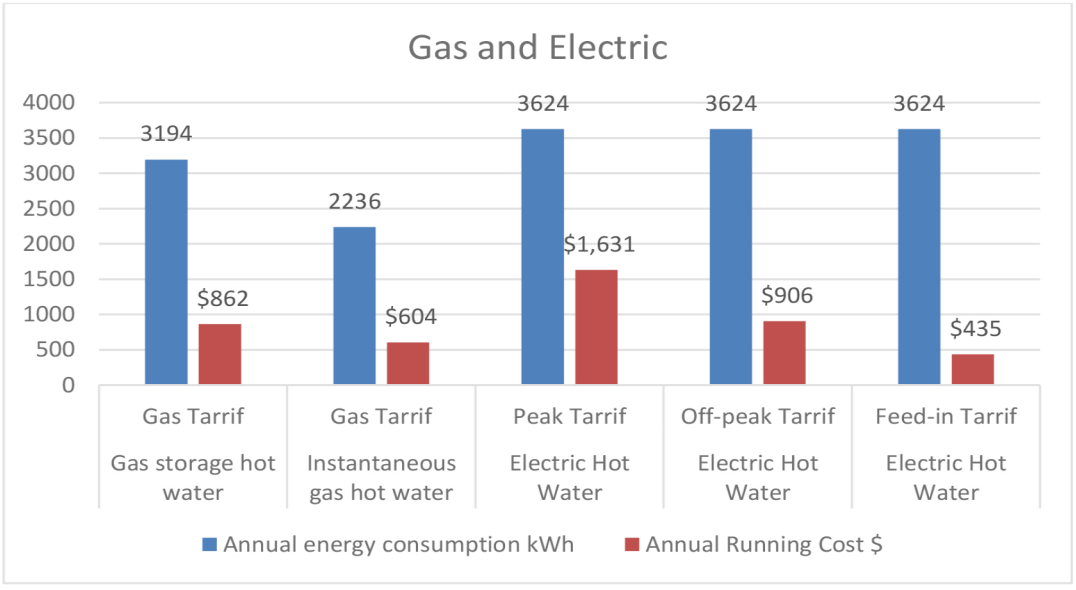
Table 1 LW200L energy savings and certificate entitlements

Zone	Zone 5 - AUCKLAND	Zone 6 - DUNEDIN
Hot water load size	Medium	Medium
Peak winter load (MJ/d)	42	42
Total energy delivered to load (GJ/y)	11.00	11.00
Energy delivered below 45ºC (GJ/y)	0	0
Minimum delivery temperature (ºC)	47.1	46.6
Reference system energy use (GJ/y) [Br]	13.046	13.239
Annual purchased energy used for supplementary heating (GJ/y) [Bs]	4.1573	4.7712
Annual purchased electrical energy used by auxiliary equipment (GJ/y) [Be]	0	0
Energy savings (%) [fR]	68.1%	64.0%

Only zones 5 and 6, Auckland and Dunedin temperature variants were used in the modelling tests, so efficiencies will be more in warmer climate zones like Hawke's Bay.


Living Wise 200L Heat Pump
1400
1200
1000
800
600
400
200
0
1155
$520
1155
$289
1155
$139
Peak Tarrif
Living Wise 200L
Off-peak Tarrif
Living Wise 200L
Feed-in Tarrif
Living Wise 200L
Annual energy consumption kWh
Annual Running Cost $


Solar Hot Water
1800
1600
1400
1200
1000
800
600
400
200
0
1450
$362
1450
$652
1631
$440
Off-peak Tarrif
Solar Hot Water - Electric
Peak Tarrif
Solar Hot Water - Electric
Gas Tarrif
Solar Hot Water - Gas
Annual energy consumption kWh
Annual Running Cost $


Gas and Electric
4000
3500
3000
2500
2000
1500
1000
500
0
3194
$862
2236
$604
3624
$1,631
3624
$906
3624
$435
Gas Tarrif
Gas storage hot water
Gas Tarrif
Instantaneous gas hot water
Peak Tarrif
Electric Hot Water
Off-peak Tarrif
Electric Hot Water
Feed-in Tarrif
Electric Hot Water
Annual energy consumption kWh
Annual Running Cost $