

# Electr Heat

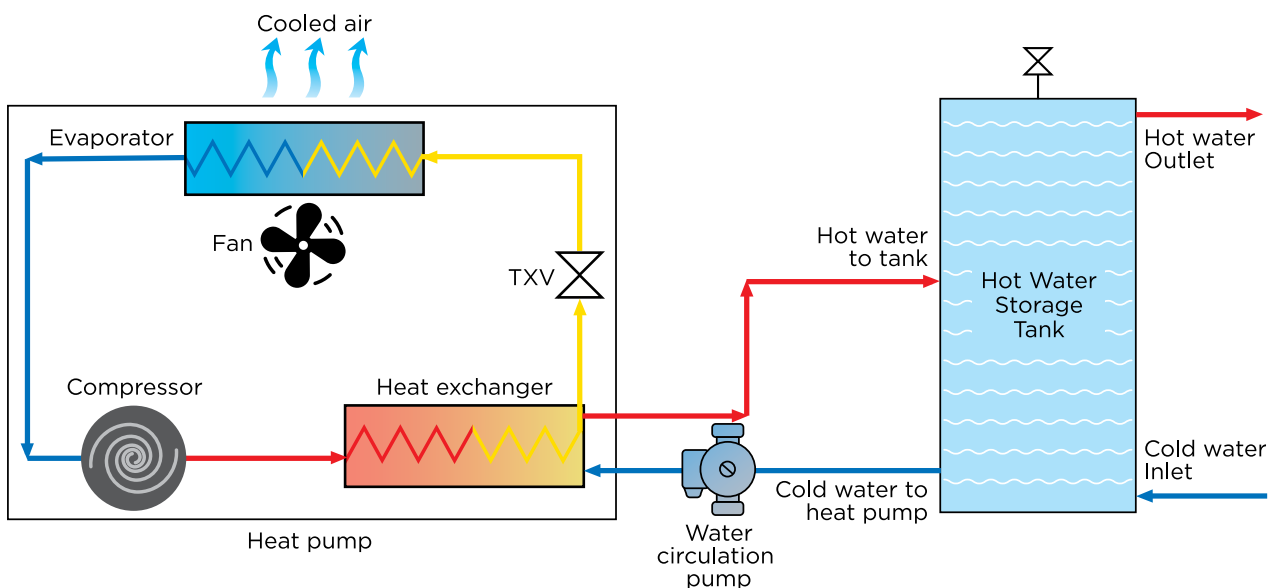
HOT WATER SYSTEM





# Electr Heat

Electroheat Hot Water System (HWS) adopts heating methodology via ambient air source. With air possesses excellent trait in absorbing and transferring energy, the HWS is a highly efficient mean of water heating. Due with its low operating cost, the power consumption of HWS makes up only a minimal portion of the power utilized by conventional heating approach such as natural gas and electric. HWS also resulted in little carbon emission, which makes it an environmental-friendly method of producing hot water.



Electroheat HWS is a cost effective heating solution to cater the need of hot water in household, hospitality, healthcare and food processing sector.. The energy saving technology adopted by HWS utilizes minimal energy to produce great amount of heat.



### Cost effective heating

- The heating load utilized by HWS only lies from operating the compressor and fan with low amperage. In comparison to other means of heating water, Waterco HWS saves up to 83% over propane gas, 58% over natural gas and more than 500% over electric heaters in terms of power consumption.



### Energy efficient heating

- Waterco HWS only uses portion of the energy used by gas and electric heaters to produce the same amount of heat. Unlike solar heating, the HWS does not rely on the presence of sunlight for heat.



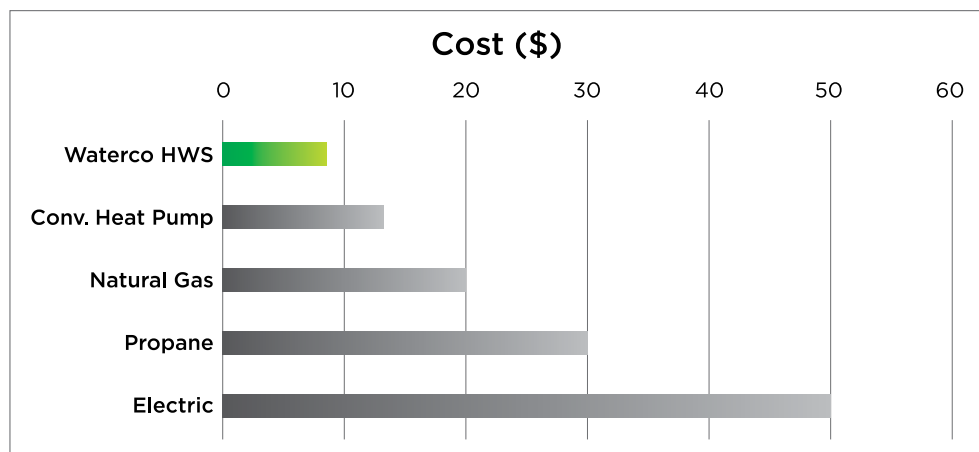
### Environmentally-friendly

- The R417a used in the HWS as heating media is a high performance refrigerant, and at the same time being Ozone-friendly as compared to other conventional refrigerants.



### Hot water on demand

- Storing of heated water inside a tank assures the availability of hot water for various application.





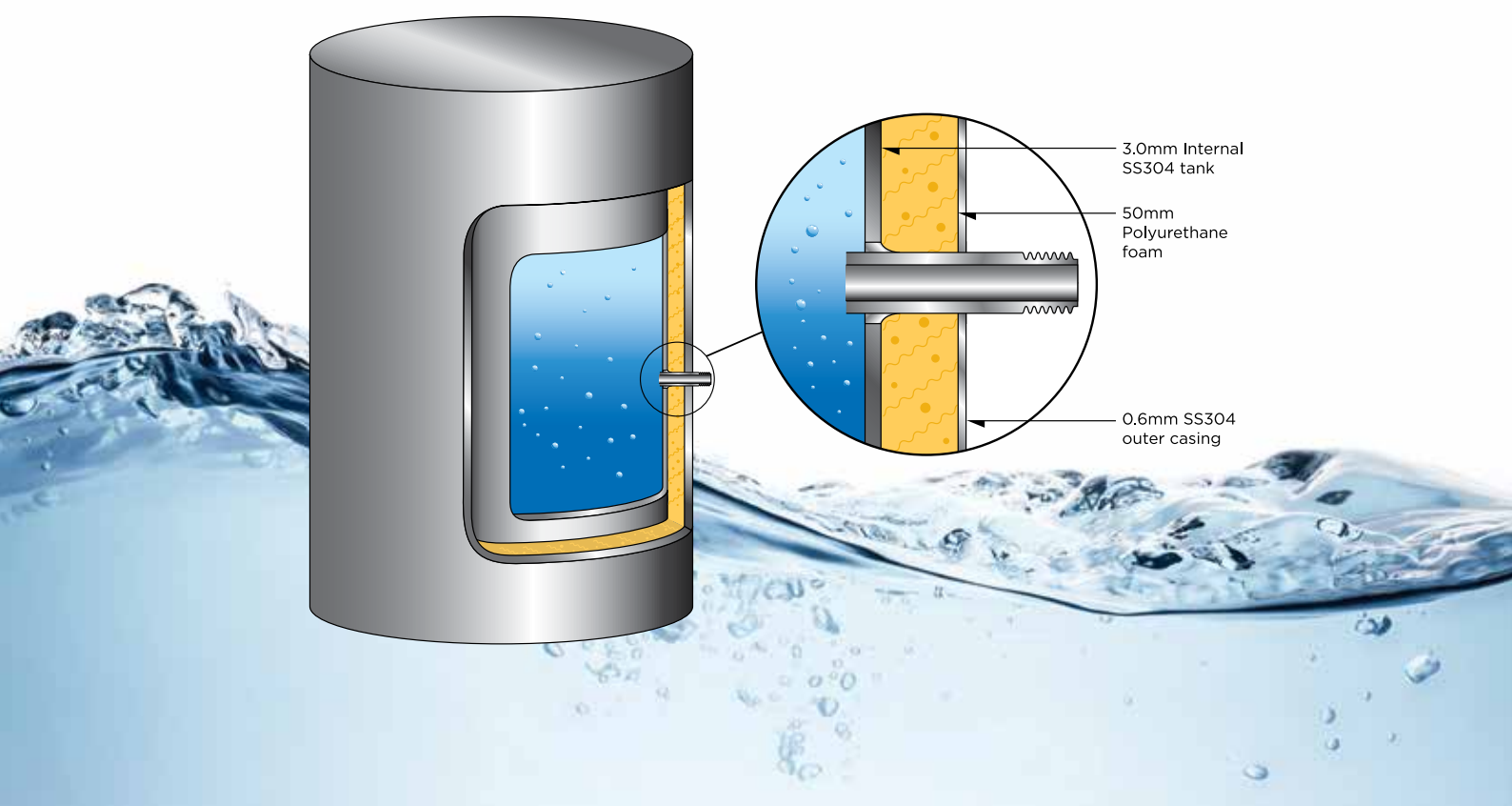
Specifications				
Model		HWS 9.5 kW	HWS 20 kW	HWS 40 kW
Heating Capacity	kW	9.5	20	40
Power Supply	V/Ph/Hz	240/1/50	415/3/50	415/3/50
Input Power	kW	2.3	4.9	9.8
Running Current	A	12.46	8.77	17.54
Max. Input Power	kW	3.26	6.86	13.72
Max. Running Current	A	17.44	12.28	24.55
Refrigerant		R417a	R417a	R417a
Compressor Type		Rotary	Scroll	Scroll
Compressor Quantity		1	1	2
COP Air 28°C/Water 30°C		6	6	6
COP Air 28°C/Water 35°C		5.5	5.5	5.5
COP Air 28°C/Water 40°C		5.1	5.1	5.1
COP Air 28°C/Water 50°C		4.6	4.6	4.6
COP Air 28°C/Water 55°C		4.1	4.1	4.1
Outlet Water Temp	°C	60	60	60
Max. Outlet Water Temp	°C	65	65	65
Hot Water Yield	L/h	204	430	860
Water Flow	m <sup>3</sup> /h	2.0	4.3	8.6
Air Flow	m <sup>3</sup> /h	3000	7000	14000
Condenser		Tube in shell		
Condenser material		Copper Inner Tube, Carbon Steel Housing		
Water Pressure Drop	kPa	40	55	55
Water Connection Tube	mm	DN25	DN25	DN40
Noise	dB (A)	<55	<57	<61
Electric Protection		I	I	I
Mechanical Protection		IPX4	IPX4	IPX4
Net/Gross Weight	kg	87/130	139/157	268/316
Dimension (LxWxH)	mm	752x690x765	752x690x965	1450x702x1260
Packing Dimension (LxWxH)	mm	840x750x900	840x750x1100	1525x805x1420

STORAGE TANK SPECIFICATIONS								
Volume	Dimension		Thickness		Tank Material	Dry Weight	Backup Heater Rating*	Backup Heater Material
	O. Diameter (mm)	Height (mm)	Inner Tank (mm)	Outer Casing (mm)				
500 L	700	1900	1.5	0.5	SS304	90 kg	9 kW	SS316L
1000 L	900	2100	3.0	0.6	SS304	200 kg	9 kW	SS316L
2000 L	1200	2200	3.0	0.6	SS304	300 kg	18 kW	SS316L

\*Available with or without backup heater



Diagram of hot water storage tank



Images shown are the 9.5 kW and 20 kW HWS. Specifications and dimensions of the 40 kW HWS can be referred to the specification data.

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