

# INTEGRATED HEAT PUMP SPECIFICATIONS

Parameter	Specification	Benefit
Nominal tank capacity*	150L	
Heat pump heating capacity	1650 watts   1.65kW	
Heat pump power input	450 watts   0.45kW	Energy saving
Co-efficient of performance	3.6	70% reduction in water heating costs
Current	2.05 Amp	
Power supply	220-240VAC   Single Phase   50Hz	
Compressor	Hitachi Rotary	Reliable
Pipe size	¾ inch	
Orientation	Vertical	Space saving
Refrigerant	R134a	
Noise level	45 dB(a)	Ultra-quiet
Temperature range	90°C to 60°C	
Water tank material	SUS316L Stainless Steel	Class leading corrosion resistance and significantly extended lifespan
Evaporator coil	4-row with hydrophilic coating	Corrosion resistant and highly efficient
Finish	Polished silver-grey	Aesthetically pleasing
Overall dimensions	Ø520 x 1725 mm	
Net weight	70kg	

\*Measured tank capacity is >145L | Rating for SANS151 is 125L

ISO9001: 2008 CE CB RoHS SAA WaterMark

# HYDRATHERM

HOT WATER SOLUTIONS



THE FUTURE OF HOT WATER TECHNOLOGY

YOUR HEAT PUMP AND GEYSER ALL IN ONE

**SUS316L**  
"low carbon"  
stainless steel

## HYBRID GEYSER HEAT PUMP/ HOT WATER SOLUTION



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# WHAT IS AN INTEGRATED HEAT PUMP?

An integrated heat pump is a hot water cylinder (geyser) that has an ultra energy efficient heat pump as the heating source in place of a conventional electric element. The heat pump is integrated or mounted directly on top of the water tank.

A heat pump is a device that heats water by using a very small amount of electricity to move heat from the surrounding air to the water by means of a compressor and an "air to water" heat exchanger. They are commonly compared to air-conditioners operating in reverse - where an air-conditioner transfers heat from the air inside a room to the atmosphere outside, a heat pump transfers heat from the air around it to the water in a geyser. Heat pumps use roughly 1/3 of the electricity to heat the same amount of water as a conventional geyser

# OPTIMISE YOUR HOUSEHOLD WATER HEATING EFFICIENCY



## Total Control

The integrated heat pump features a digital interface giving you control over your hot water at your fingertips. The smart control panel mounted on the front of the unit has the intuitive push button on/off, temperature and operating mode controls.

## Design and Aesthetics

Resembling an ultra-modern domestic refrigerator in appearance and size, the HydraTherm integrated heat pump is very easy to incorporate into the architecture and aesthetics of any home. We recommend installing them in the corner of a garage, utility room or scullery with the cold air discharge ducted to the exterior of the building. They can also be installed outside the building under a covered patio, car port or lean-to roof.



## HydraTherm Integrated Heat Pumps

Our company is operated by experienced professionals with more than 25 years of experience in the plumbing industry and more than 10 years of experience specifically in energy efficient hot water systems. We have worked hard to bring you South Africa's leading integrated heat pump - in terms of quality, efficiency and cost!

## Designed to last

Nothing about the HydraTherm integrated heat pump is conventional. Our solution is designed and built to last - utilizing only the best materials available in the industry. The water tank is manufactured from SUS316L "low carbon" stainless steel and incorporates two electric impressed current anodes in addition to a magnesium sacrificial anode to ensure corrosion is eliminated even in the harshest of environments



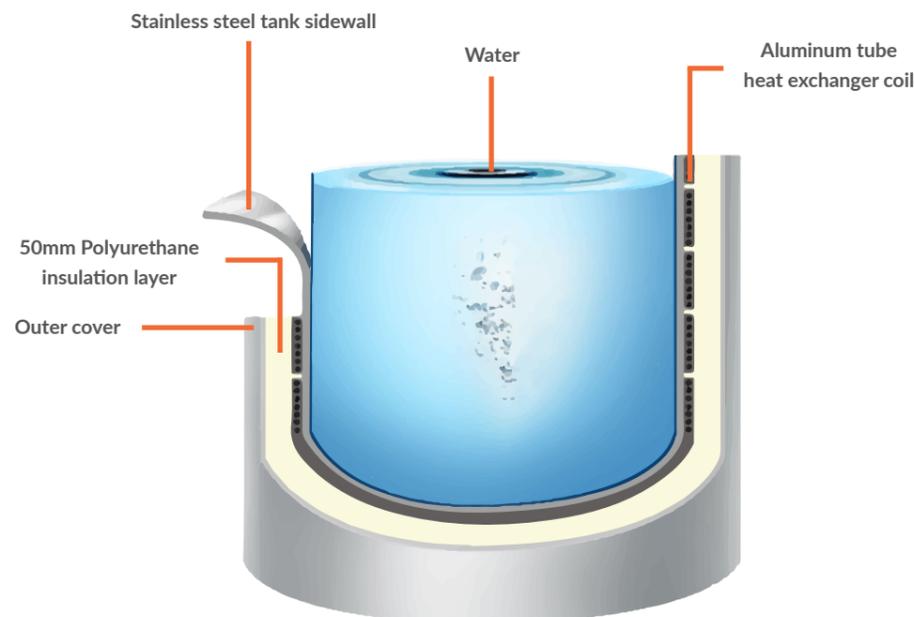
## Ease of Installation

The plumbing installation of our integrated heat pump matches that of an ordinary geyser with no added complications. If you choose to forgo the connection of the auxiliary back-up element, the installation can be completed without an electrician as the heat pump itself can simply be plugged into an ordinary 220 - 240 VAC wall outlet (plug point) by the plumber. Commissioning is also easy - simply press the ON/OFF button on the front panel - the unit is pre-programmed to heat water to 55°C.



## Energy efficiency

Integrated heat pumps qualify for installation in terms of SANS 10400XA and XA2 as they are energy efficient water heaters utilizing 1/3 of the energy of an ordinary geyser element. Our integrated heat pump features high density 50mm polyurethane insulation to ensure absolute minimum heat loss from the water tank.



## Cost Saving

Whilst running, the integrated heat pump draws only 450 watts of electricity. The smallest domestic geyser element draws 2000 watts (4 times more). By switching from a conventional geyser to a heat pump, you will save as much as 70% of your total hot water costs, which can account for between 40% and 60% of the entire domestic electricity bill.



## Ultra - Quiet

The HydraTherm integrated heat pump boasts a vortex style fan assembly which reduces fan noise by 20%. HydraTherm heat pumps also utilize egg carton style sponge noise damping material in the walls of the heat pump cover. All of this translates to an overall sound level of +-45dBa. (Less than the sound of human speech or even a domestic refrigerator).



Vortex fan assembly



Sound damping