



# **SOLUTION TO ECONOMICAL, EFFECTIVE AND SUSTAINABLE HEATING**



## trisã AIR SOURCE HEAT PUMP WATER HEATERS

With the ever demanding and fast lifestyle, running hot water has become a daily necessity. trisã air source heat pump water heater is a perfect solution for readily available running hot water for your direct use! With extremely affordable running costs and negligible maintenance, trisã Heat Pump offers a smart and energy-efficient alternative to traditional geyser systems, which consume more power and provide only a limited supply of hot water. Our heat pump is an all-weather solution to your daily needs.



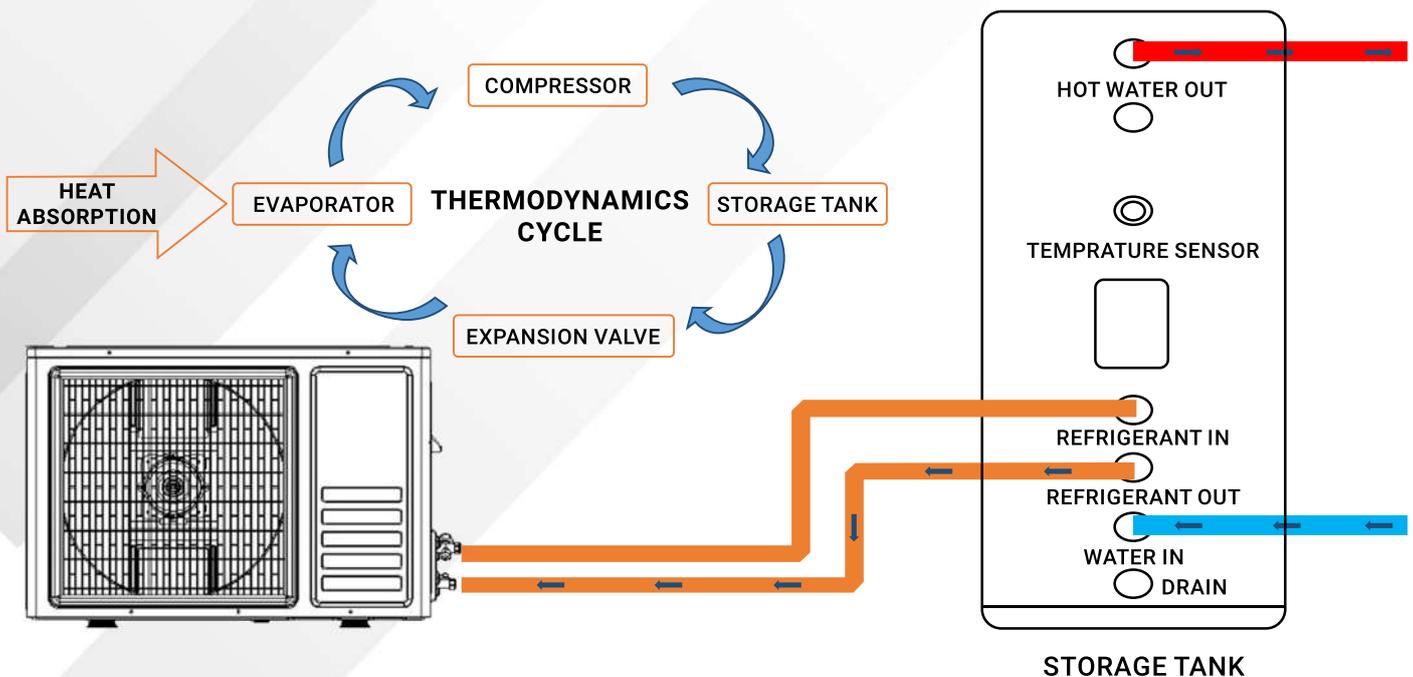
# trisa HEAT PUMP FEATURES –

- Environment friendly refrigerant (R32).
- **Auto defrost sensors** for equipment protection and backup heater for hot water during continuous use.
- **ECO mode** and **Auto mode** for energy efficiency and convenience.
- **Enamel glass** line coated and **high density puff** insulated tank (50 mm) for long product durability and minimum heat loss.
- **Mg anode rod** for corrosion protection against hard water.
- **Inner groove** copper tubes and **anti-corrosive** coated fins for longer life and operational efficiency in wide temperature range (-10 C to 43 C)
- **Smart and convenient digital controller:** User friendly interface and easy integration with mobile application (Smartlife) gives the user a better experience. Easily adjust the temperature, switch ON/OFF your heat pump anytime, anywhere!



# trisã HEAT PUMP WORKING PRINCIPLE –

Heat pumps use gas refrigerant for its operations. In the whole circuit, when the low temperature refrigerant gas flows through the evaporator, it absorbs readily available free heat from the atmosphere and then is compressed by the compressor into a high pressure, high temperature vapour. It then flows through the heat exchanger where heat from the refrigerant gas is transferred (exchanged) to the water in the storage tank. The refrigerant temperature decreases and then it is passed through the expansion valve, where the refrigerant transforms into a low temperature gas, ready to again go back in the evaporator for absorbing the atmosphere heat. This repeated cycle makes sure that the water in the storage tank always stays hot.



## Applications –

- Residential bungalows, Swimming pools
- Apartments, Hospitals
- Hotels, resorts, Industrial applications

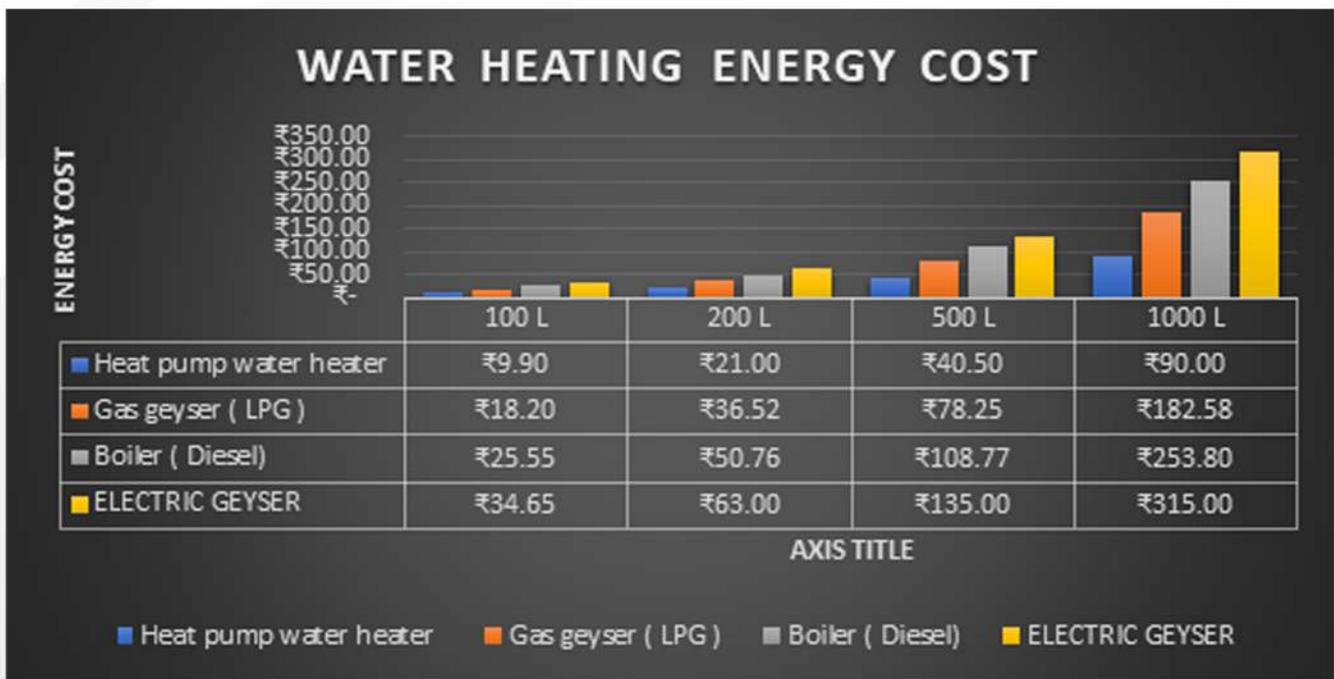
## trisa HEAT PUMP SPECIFICATIONS –

Model	TR-HP-200	TR-HP-300	TR-HP-500
Tank Volume (Litre)	200	300	500
Product configuration	SPLIT	SPLIT	SPLIT
Production Capacity (LPH)	80	100	150
Power output W (Heating capacity)	3600	3600	5350
Power input (Kw)	900	900	1340
Current (A)	4.0	4.0	5.9
COP	4	4	4
Heating element (Kw)	2	2	2.5
Refrigerant	R 32	R 32	R 32
Inner tank coating	Enamel	Enamel	Enamel
Insulation thickness (PUF) mm	50	50	50
Power supply	230v, 50hz, 1Ph	230v, 50hz, 1Ph	230v, 50hz, 1Ph
Anode	Mg	Mg	Mg
Water temperature Heat Pump (deg C)	55	55	55
Heat Pump Dimension (LXWXH) mm	717 X 240 X 495	717 X 240 X 495	717 X 240 X 495
Packing dimensions (mm)	818 X 333 X 565	818 X 333 X 565	818 X 333 X 565
Approx. weight (Kg)	31	31	31
Tank dimensions (Dia x H) mm	520 x 1570	650 x 1750	710 x 1860
Tank rated Pressure	0.8 Mpa	0.8 Mpa	0.8 Mpa
Compressor type	Rotary	Rotary	Rotary
Water in / out connection	3/4 inch	1 inch	1 inch
Approx. tank weight (kg)	70	87	144

• Condition: - Heating Capacity at air 20°C /15°C, Water temperature from 15°C to 55°C.

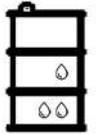
# COST COMPARISON:

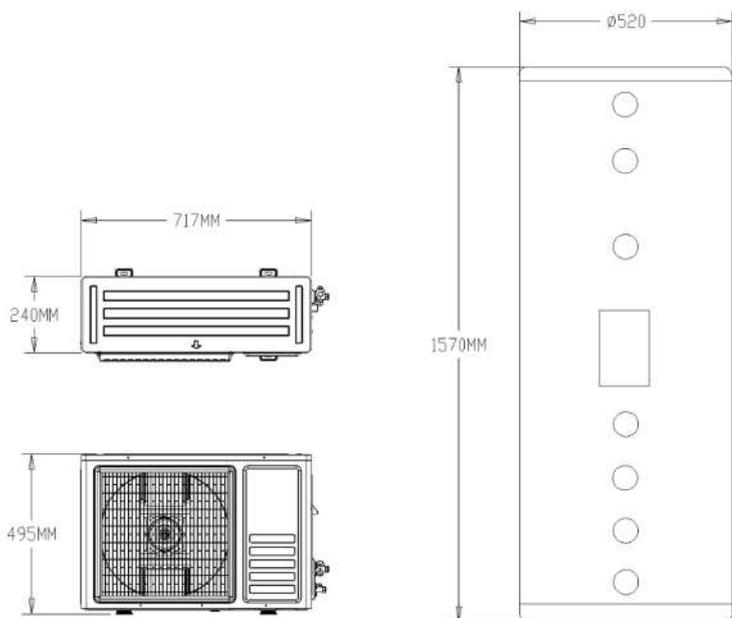
## TRADITIONAL HEATING AND trisã HEAT PUMP –



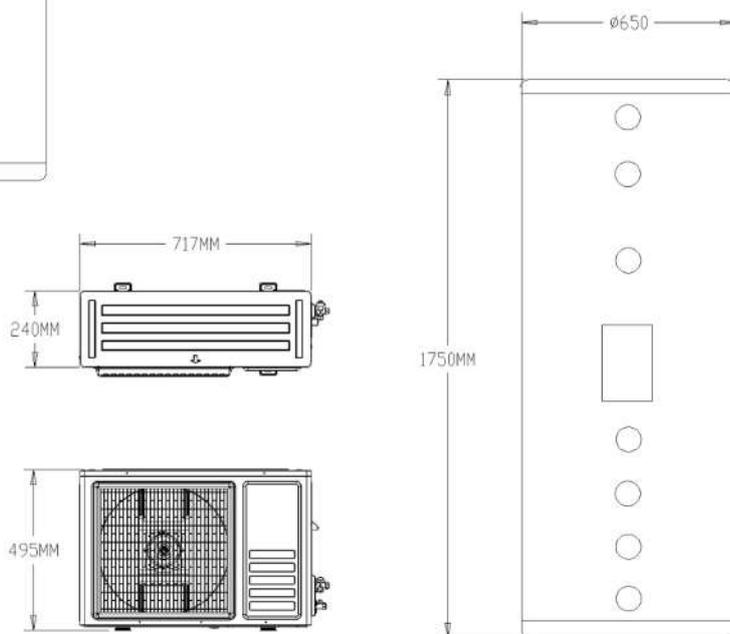
Heating Source	Heat pump water heater Electricity	Electric Geyser (Electricity)	Boiler (Diesel)	Gas Geyser (LPG)
Charges in the state of Maharashtra	Rs.9.9 per Unit	Rs.9.9 per unit	Rs 94 per Liter	60.28 Per Kg

### Warranty:

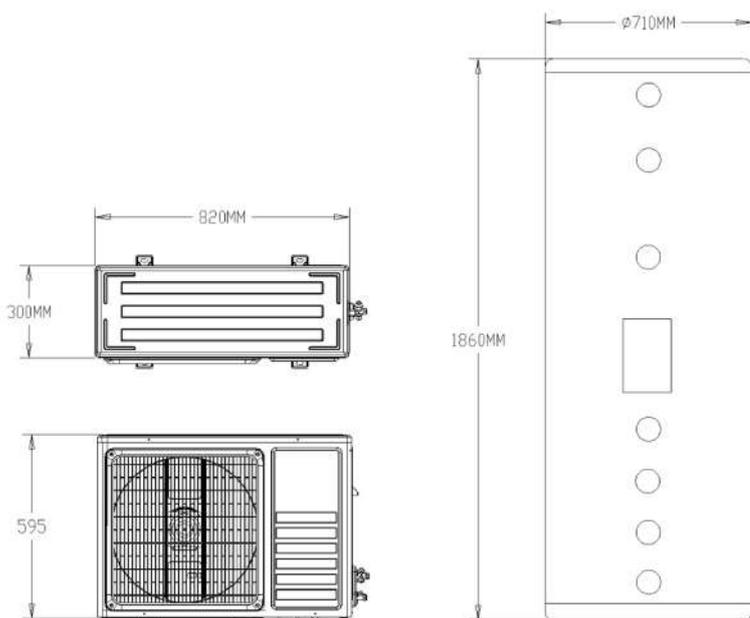
<p><b>6</b> Years on Compressor</p> <p><b>5</b> Years On Tank</p> <p><b>3</b> Years on Electrical Components</p>	 <p>Suitable for Hard and Soft Water</p>	 <p>Works in varied Climatic Conditions</p>	 <p>Enameled Glass Line Coated Tank</p>
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OUTDOOR UNIT & TANK - TR-HP-200



OUTDOOR UNIT & TANK - TR-HP-300



OUTDOOR UNIT & TANK - TR-HP-500



## ABOUT US

Kale Group of Industries commenced its activities in 1996 with a powder surface coating division. With its consistent pricing, high quality standards and just in time deliveries, Kale Group is now operating from 11 locations pan India. Kale group has its presence in three main product verticals –

### Refrigeration:

Roll bond evaporators, fin evaporators, filter driers, Cu-Al suction assembly, sheet metal press components (painted and unpainted), aluminium tubes.

### Air Conditioning:

Air conditioner ODU, IDU, Heat pumps, connecting kit, heat exchanger coils, return bends, header assembly, water chillers, oil chillers.

### Electrical:

Metal flush boxes, surface boxes, distribution boxes (standard and non-standard)

### Head Office



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