trisã

INDUSTRIES

# 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.


# trisã HEAT PUMP FEATURES –

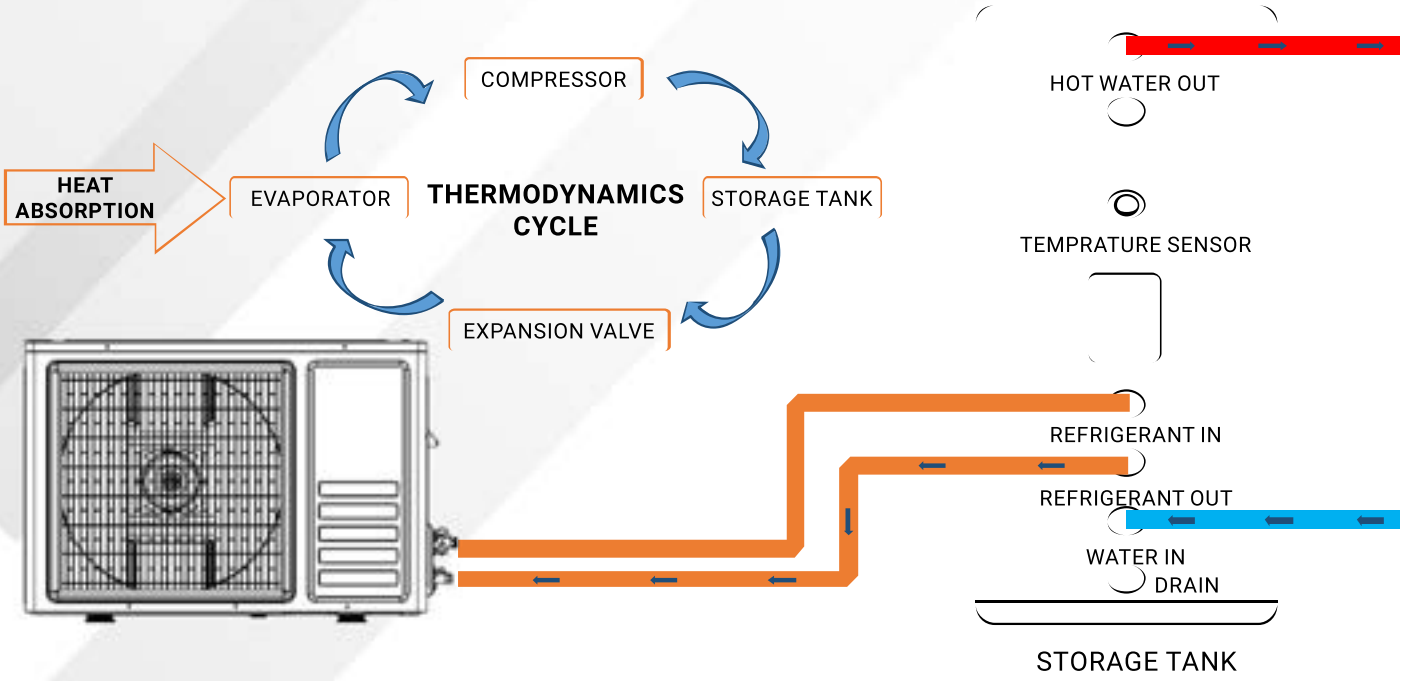
- Environment friendly refrigerant (R32).
- Auto defrost sensors for equiment protection and backup heater for hot water during continuous use.
- ECO mode and Auto mode for energy efficiency and convinience.
- Enamel glass line coated and high density puff insulated tank (50 mm) for long product durability 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 convinient 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!



- *Heating/Cooling Mode Selection*
- *Target Hot Water Temp Setting*
- *Time Setting*

# 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 is always stays hot.




**Applications –**

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

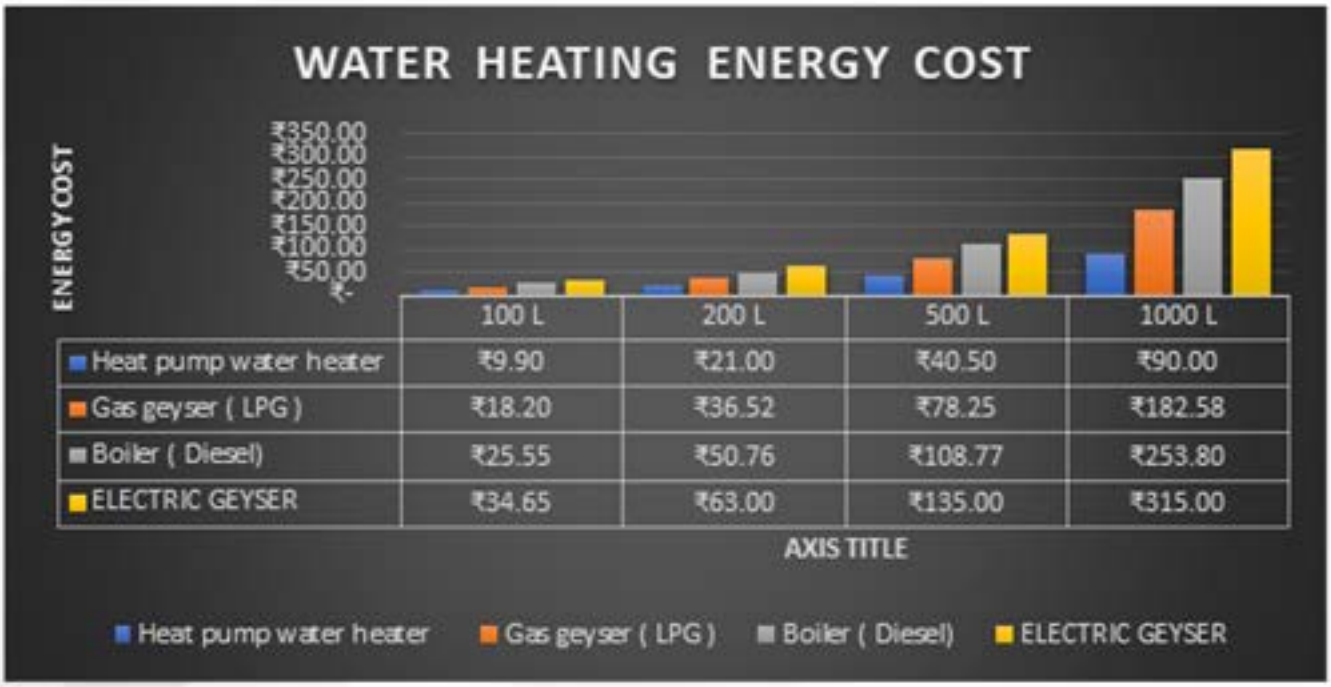
# trisã HEAT PUMP SPECIFICATIONS –

| 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 Maharastra | Rs.9.9 per Unit | Rs.9.9 per unit | Rs 94 per Liter | 60.28 Per Kg |

### Warranty:

**6** Years on Compressor

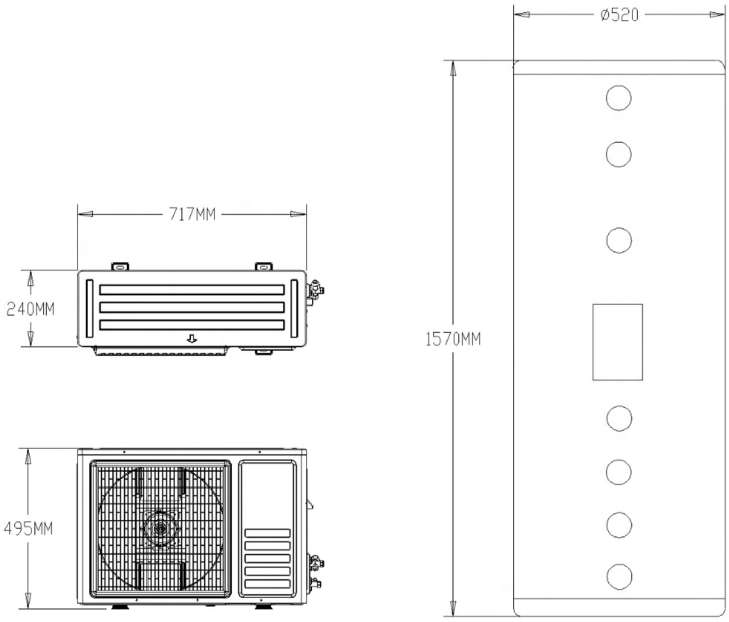
**5** Years On Tank

**3** Years on Electrical Components

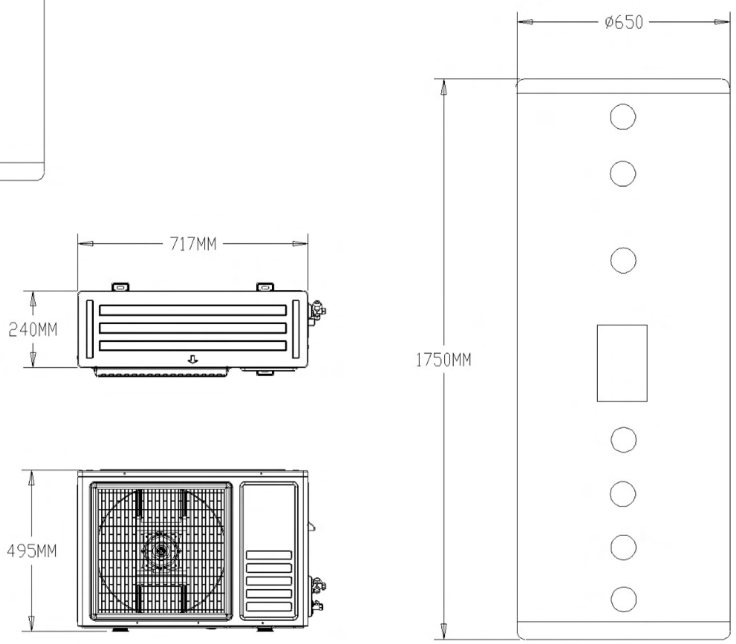
**Suitable for Hard and Soft Water**

**Works in varied Climatic Conditions**

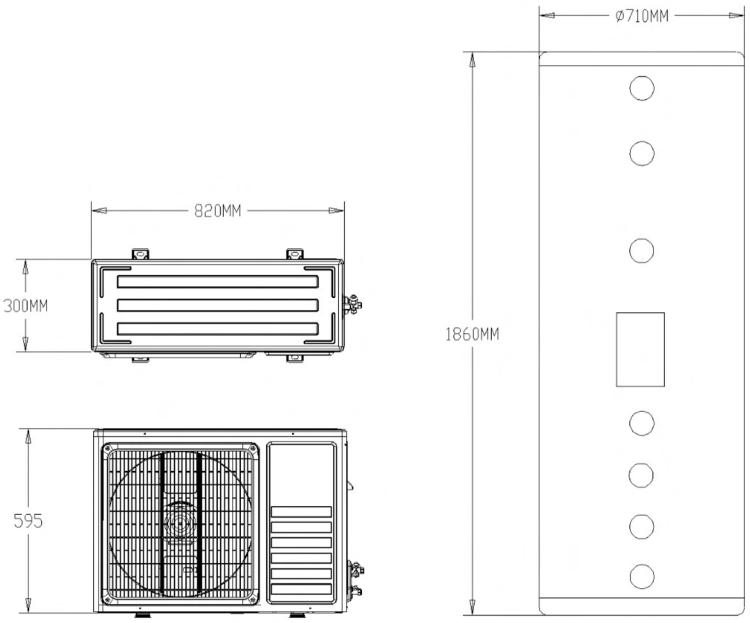
**Enameled Glass Line Coated Tank**




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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