

**Racold**

Your comfort your way

# HOT WATER COMFORT, JUST THE WAY YOU LIKE IT.



Available in  
200L, 300L & 500L

## ABOUT ARISTON GROUP:

Ariston Group, Italy is a global leader in sustainable thermal comfort that offers a unique, extensive range of solutions for hot water, space heating and air treatment, as well as components and burners. Listed on Euronext Milan since November 2021, in 2023 the Group reported almost 3.1-billion-euro revenue, with over 10,000 employees, direct presence in 40 countries in 5 continents, 29 production sites and 29 research and development centers.

The Group demonstrates its commitment to sustainability through the development of renewable and high efficiency solutions, such as heat pumps, water heating heat pumps, hybrids, domestic ventilation, air handling and solar thermal systems. The Group also stands out for its continuous investment in technological innovation, digitalization, and advanced connectivity systems.

Operating under prominent global strategic brands such as Ariston, Elco, and Wolf, as well as renowned brands like Calorex, NTI, HTP, Chaffoteaux, Atag, Brink, Chromagen, Racold, Thermowatt and Ecoflam in the components and burners sector, the Group solidifies its presence across diverse markets.

## WHY HEAT PUMP WATER HEATERS?

- It uses 70%\* less electricity compared to conventional water heating solutions. It uses electricity only to move heat from one place to another instead of using it to generate heat. This results in 70%\* less electricity consumption.
- Heat pump water heaters have a CoP (Co-efficient of performance) of 4.40#, meaning that the energy produced in the form of hot water is 4.40# time more than that is consumed.
- By comparison, electric water heaters have a CoP of less than 1, resulting in heat pump water heaters giving an annual saving of approx. ₹10,000^.







**70%\***  
Energy Savings

^Savings are calculated @₹10 per unit, subject to internal lab test conditions.

#Available only to 500L as per lab test conditions.

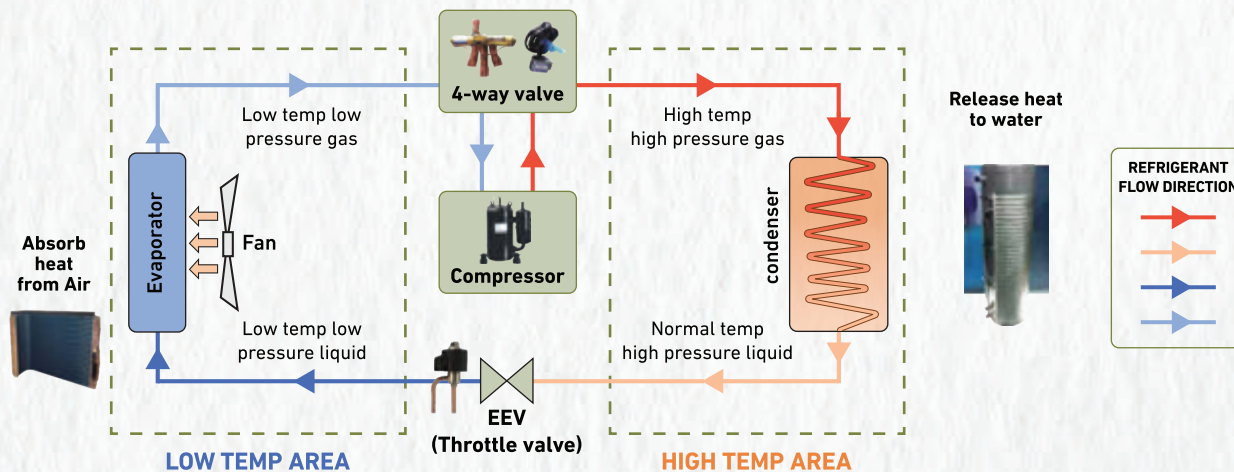
\*70% less electricity compared to conventional water heating solutions.

## FEATURES:

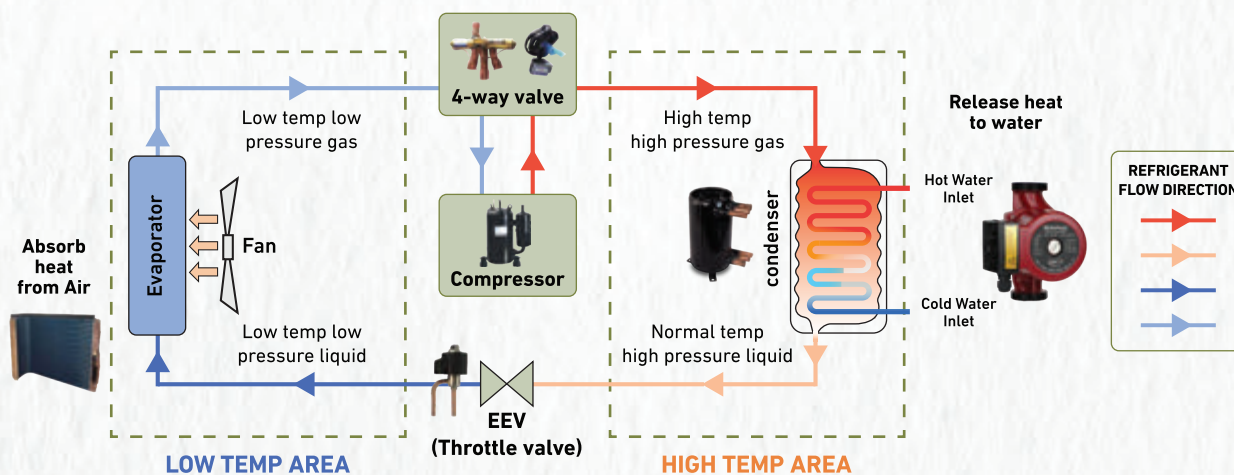
 <p><b>ISOLATED SAFE CONDENSER</b> Designed according to European standards, this ensures safety and superioconduction of heat.</p>	 <p><b>MAGNESIUM ANODE</b> The water heater comes with an anode that prevents corrosion of the inner tank and thus extends its life.</p>
 <p><b>HIGH EFFICIENCY COMPRESSOR</b> This heat pump water heater ensures faster heat exchange, more hot water and increased savings.</p>	 <p><b>QUICK HEATING</b> With this option, the heat pump water heater will work on both Heat Pump and Heating Element mode, giving you instant hot water.</p>
 <p><b>TITANIUM PLUS TECHNOLOGY</b> The titanium enamel coating in the tank prevents corrosion by handling even the toughest water conditions, providing reliableand healthy water for years to come.</p>	 <p><b>INTELLIGENT CONTROLLER</b> Easily set the temperature and schedule shower timings with the intelligent controller.</p>

## HOW DOES IT WORK?

### HEAT PUMP WATER HEATING CYCLE - 200L & 300L



### HEAT PUMP WATER HEATING CYCLE - 500L



## THERMODYNAMIC CYCLE FOR HEAT PUMP:

**Stage 1- Air Intake:** External air is drawn into the heat pump using a fan.

**Stage 2- Heat Absorption:** The refrigerant in the evaporator, maintained at a temperature lower than the surrounding atmosphere, absorbs heat from the air and converts into vapor.

**Stage 3-** The compressor increases the pressure and temperature of the gaseous refrigerant.

**Stage 4- Heat Exchange:**

- **For 200L/300L:** The heated refrigerant circulates through the condenser coil wrapped around the storage tank, transferring heat to the water inside the tank. This process cools and condenses the refrigerant.
- **For 500L:** The heated refrigerant passes through a tube-in-shell heat exchanger, where it efficiently transfers heat to circulating water through copper tubes, heating the water while cooling and condensing the refrigerant.

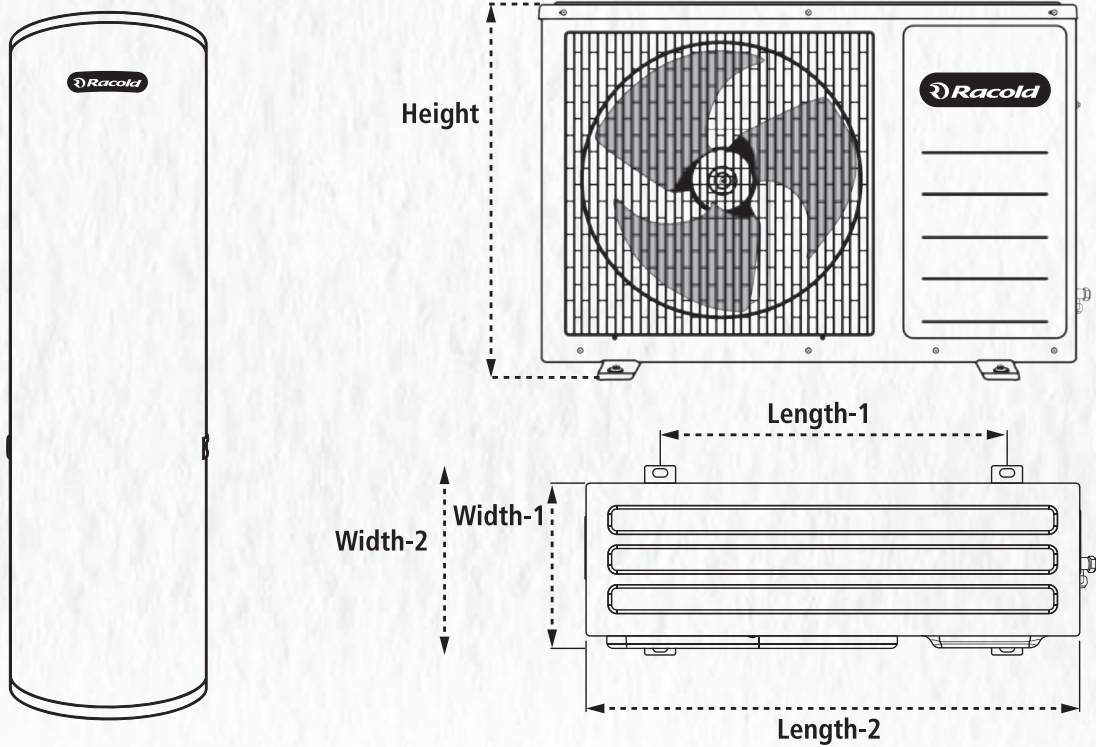
**Stage 5- Expansion:** The refrigerant then flows through an electronic expansion valve, where its pressure and temperature are reduced, allowing the Heat Pump cycle to repeat.

## DOMESTIC HEAT PUMP WATER HEATER:

TECHNICAL PARAMETERS*	MODEL SPECIFICATIONS		
	200 Ltrs	300 Ltrs	500 Ltrs
Product Configuration	Split	Split	Split
COP	4.25	4.25	4.40
Highest Water Pressure (Bar)	8.5	8.5	8
Heating Element (kW)	2	3	3
Refrigerant	R134A	R410A	R410A
Tank net weight- without water (Kgs)	70	90	110
Tank dimensions (mm)	Ø500X1716	Ø620X1655	Ø733X1820
Main unit net dimensions (mm)	780X300X543	780X300X543	975X420X603
Mains Electrical Connection (Hz)	50	50	50
Magnesium Anode	Yes	Yes	Yes
Maximum Temperature Setting - HP Mode (°C)	75	55	55
Maximum Temperature Setting with Electrical Heating Element (°C)	75	70	70
Rated Hot Water Output^ (Ltr Per Hour)	75	110	135
Power Output (W)	3500	5261	6200
Power Input (W)	823	1239	1409
Noise level in DB (1 meter as per standard)	50	50	54

\*Testing Conditions: Ambient temperature: DBT 20°C/WBT 15°C & Water temperature from 15°C to 55°C.

**PRODUCT LINE DIAGRAM:**



Model	Length-1	Length-2	Width-1	Width-2	Height
Heat Pump 200L/300L	548	780	261	300	543
Heat Pump 500L	645	975	356	420	603



Inner Tank  
Compressor      5 yrs  
Product            2 yrs



Chlorofluorocarbon Free



Your comfort your way



Winner of  
Good Design  
Award

MARKETED BY: ARISTON GROUP INDIA PRIVATE LIMITED

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- 'Racold' brand is a registered trademark of Ariston Spa, Italy.
- Any dispute shall be subject to the exclusive jurisdiction of Pune Courts.
- Always use genuine Racold spare parts and connecting pipes.
- Always get your installation done by authorized Racold Service center only.
- Star rating obtained as per BEE guidelines.
- The images of the products are for illustration purpose only and may differ from actual product.
- Specifications are subject to change without prior notice.
- Water inside the geyser must not be pre-heated before activating the Children Care Mode.
- Free installation and pipes available only on select models in certain areas.  
Please check our website or call center for eligibility.
- All BEE star ratings are valid from 1<sup>st</sup> January, 2023 to 31<sup>st</sup> December, 2025.
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