Racold

Reborn Everyday with Hot Water.

ARISTON THERMO GROUP

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India's largest manufacturer and seller of water heaters.

Racold

Reborn Everyday with Hot Water.

A MAGICAL WAY of
power saving to
heat water from thin air.

HEAT PUMP WATER HEATER

Every day is an unknown opportunity .
Every day is the beginning of something beautiful. A day with endless possibilities.
And to make the most of your day,
all you need is a great, energetic start
to your mornings.
Racold Thermo Ltd. helps you begin your day with this spurt of energy, a great start since the last 50 years.
A fully owned subsidiary of the Ariston Thermo Group, the world's leading water heating company. In 2013, Racold has been conferred the 1st position by the BEE for our Electric Storage Water Heaters, fourth time in a row.
At the same time, the MNRE also awarded us for the second consecutive year, this time for our Solar Thermal Installation and for Best Service and Dealer Network'14.

BEE Award

MNRE Award

The need to install a Heat Pump Water Heater:

You too could be one of the many people who are unaware of the multiple benefits of installing a heat pump. Firstly, unlike the conventional electric water heaters, it saves 72% power. As you read further, you will discover many more benefits and realize the need to go for a Racold Heat Pump Water Heater.

72%
Energy Savings

- Heat pump water heaters have a COP (Co-efficient of performance) of 3.6, meaning that the energy produced in the form of hot water is 3.6 times 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. Rs 9300/-

Comparative Analysis:

Parameters	Heat Pump water heater	Electric water heater
Operating cost (%)	28	100
Place of Installation	Any place	Any place
Source of Energy	2/3 from atmosphere (renewable energy) + 1/3 from electrical power	Electrical power
Heating Time*	2 hours (multiple heating cycles)	2 - 3hrs (multiple heating cycles)
Temperature of Hot water	55^{0} C	60 to 70^{0} C
Climatic constraints	None (Works throughout the year)	None (Works throughout the year)

*Capacity - 150 ltrs water

Features:

Isolated Safe Condenser:

Designed according to European standards, this ensures safety and superior conduction of heat.

Magnesium Anode:

Protects your water heater and gives it a long life.

High Efficiency Compressor:

It ensures faster heat exchange, more hot water and increased savings.

Quick Heating:

In this option the Water Heater will work in both Heat Pump and Heating Element mode, giving instant hot water.

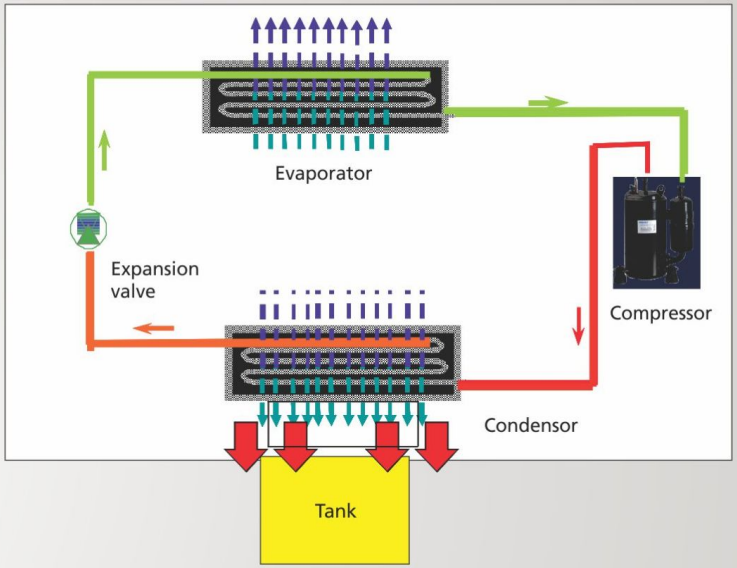
Titanium Tank:

A new technology which uses titanium enamelling for the inner container ensures greater corrosion resistance against hard water. Suitable for high-rise buildings and pressure pumps due to its pressure withstanding capacity.

Intelligent Controller:

Microprocessor based controller displays the hot water temperature and quantity and helps you choose between Standard Timing, Night and Sleep modes. A fully functioning remote and LCD screen gives you quick and easy access.

How does it work?



Thermodynamic cycle:

- External air is sucked inside the heat pump with the help of a fan
- Since the refrigerant in the evaporator is kept at a lower temperature than the surrounding atmosphere, it absorbs heat from the surroundings and evaporates
- The compressor compresses the gaseous refrigerant and raises the pressure and temperature of the refrigerant
- The heated refrigerant runs through the condenser coil wrapped around the storage tank, transferring the heat to the water stored there and it cools and condensates
- The refrigerant then passes through an expansion valve where the pressure and temperature is reduced further for the whole process to start again

Tech-spec Chart:

Sl. No.	Model	65 Ltrs.	80 Ltrs.	150 Ltrs.	200Ltrs.
1	Capacity (Ltrs)	65	80	150	200
2	Product Configuration	Monoblock		Split	
3	COP	3.1		3.6	
4	Noise level in dB (1 meter as per standard)	42		52	
5	Operating pressure (Bar)	8			
7	Heating element (kW)	2.2		1.8	
8	Refrigerant	R134a			
9	Tank net weight -without water (Kgs)	47	48	50	75
10	Product dimensions (mm)	510 x 1129	510 x 1212	495 x 1486	510 x 1894
12	Mains Electrical Connection (V/Hz)	(198-264)V/50Hz			
13	Anode	Ti + Mg		Mg	
14	Maximum temperature setting - HP Mode (°C)	55			
15	Maximum temperature setting with Electrical heating element (°C)	75			
16	Heating time (h:min) HP	3:40	4:40	2:20	3:20
17	Heating time (h:min) HP+HE	1:00	1:10	1:20	2:00
18	Power output (W)	790		2600	
19	Power input (W)	245		720	
20	Volume @ 40 degrees C (Ltrs.)	85	110	209	282

All these measuring values obtained with air temperature of 20%/ 59% humidity.

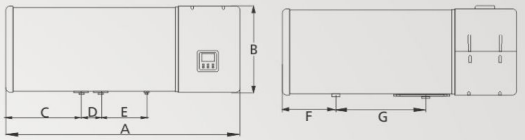
Frequently Asked Questions (FAQ's)

1) **Why should I use a Heat Pump Water Heater instead of Electrical Storage Water Heater?**
➤ Heat Pump Water Heater can save more than 72% of electricity when compared to a normal Electric Water Heater. Electricity is used to run the compressor and not to heat the water.

2) **Where should I install a Heat Pump Water Heater?**
➤ Heat Pump Water Heater can be installed in a bathroom, balcony, kitchen, storeroom, etc, virtually anywhere in the house without affecting the outlook of the building.

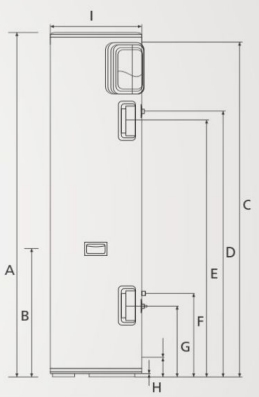
3) **What is the heat source of the Heat Pump Water Heater?**
➤ It draws heat from air (atmosphere) so that the product continues to supply hot water in all weather conditions irrespective of the water heater location.

Product Dimension:

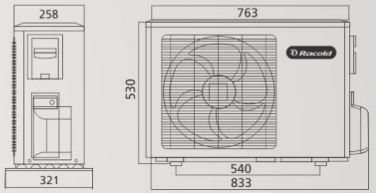


Monoblock 65 ltrs. / 80 ltrs.

Model	A	B	C	D	E	G	H
65	1129	476	349	100	195	275	384
80	1212	476	391	100	236	275	467



Split Unit:



Split 150ltrs. / 200ltrs.

Model	A	B	C	D	E	F	G	H	I
150	1486	670	1429	1024	1004	414	364	17	495
200	1894	705	1841	1462	1409	460	390	17	510

5 YEAR GUARANTE
ON INNER TANK

The product comes with a 5 year guarantee on inner tank & 2 year on the product, assuring a dependable service

An
1SO 9001:2008
Certified Company

After Sales Service

We guarantee you efficient, speedy and superior after-sales services, so that you can enhance your experience with the undisputed quality that we offer. We always recommend use of genuine Racold spare parts.

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