

# One-Time Investment, Lifetime Savings!



**Commercial Solar Water Heaters**



[www.racold.com](http://www.racold.com)



## About us

### ARISTON THERMO GROUP

Ariston Thermo is an international company among the leaders in water and environmental heating solutions. The Group develops and provides solutions that use renewable energy, such as thermal solar and heat pumps, with a continuous investment in innovation for the development of increasingly advanced connectivity systems.

In 2019, the Group posted a turnover of 1.71 billion euros and sales for 8.2 million products in more than 150 countries; counting 7,500 employees, 69 operating companies and 6 representative offices in 42 countries, 26 production sites in 15 countries and 24 centres of expertise for research and development in 15 countries. The Group offers a full range of products, systems and services mainly under the brands Ariston, ELCO, Chaffoteaux, Atag, Racold, Calorex, NTI, HTP.

The goal of Ariston Thermo is to look to the future of thermal comfort, offering an optimal combination of quality, energy savings and respect for the environment

### RACOLD

Racold is India's most trusted brand (as per Brand Trust Report 2016) and one of the largest provider of water heating solutions for over 60 years in India. It is a fully owned subsidiary of Ariston Thermo Group - Italy, the world leaders in the water and environmental heating solutions. Ever since its inception, Racold, has been setting standards in the Indian Water Heating Industry by bringing in new technology, enhancing the aesthetics, quality, safety, durability and performance of the product.

Racold has set a new benchmark in the industry for energy efficiency standards and has the distinction of being the only brand in the water heating category to win the prestigious BEE award for the 10<sup>th</sup> time in 2020. Racold is the only brand in the water heating category to be chosen as a Superbrand in 2019 & 2021.



# WHAT IS COMMERCIAL SOLAR WATER HEATER?

*Corporate Social Responsibility translates into going green. Using renewable energy sources is a big leap towards leaving a smaller footprint.*

## COMMERCIAL SOLAR WATER HEATER

Our expertise is to provide end-to-end water heating solutions for commercial applications. We have done successful projects for Residential, Hospitality, Medical & Healthcare, Educational Institutes and Industrial Sectors etc.

**Racold renewable water heating solutions are available in Evacuated Tube Collectors and Flat Plate Collectors.**

## Evacuated Tube Collector (ETC)

The Evacuated Tube Collector consists of a number of rows of parallel transparent glass tubes connected to a header pipe, which is connected to a tank. These glass tubes are cylindrical in shape and more efficient as they extract heat even in low sunlight conditions.

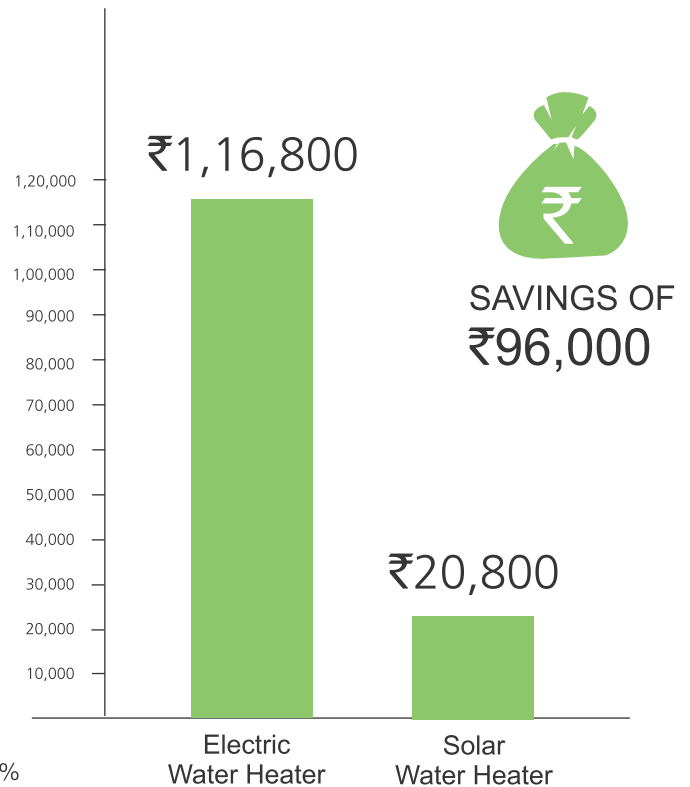


## Flat Plate Collector (FPC)

In a Flat Plate Collector, sunlight passes through the outer glass plate covering and strikes the absorber plate, which heats up, converting solar energy into heat energy. Thus the heat is transferred to water passing through pipes attached to the absorber plate by means of convective heat transfer. Flat plate collectors are long-lasting and cheaper in the long run.



# ANNUAL SAVING WITH SOLAR WATER HEATER



By using solar water heaters, cost can be saved up to 80%

# HOW DOES IT WORK?

### Natural Circulation

Suitable for domestic applications where hot water requirements are limited and maintaining exact temperature is not imperative. It operates on the principle that hot water has lower density than cold water and thus has a tendency to rise. Due to this natural phenomenon, the water circulates from the solar collector to the inner container by natural convection. This is available with both Evacuated Tube and Flat Plate Collectors.

### Forced Circulation

This system has greater control on water and temperature output and is thus ideal for commercial and industrial establishments where hot water consumption is high. Here, water is pumped from the collector to the inner container once it achieves the set temperature. This is available with both Evacuated Tube and Flat Plate Collectors.

### Indirect Heating Type

Ideally suited for hard water areas, this system has provision for a heat exchanger. Solar radiation heats the thermic fluid in the collector and once it achieves the set temperature, it is pumped from the collector to the heat exchanger. This heat is transferred to the utility water through this heat exchanger.

## Value-Adds



### Site Survey

A site visit to thoroughly conduct a technical feasibility study to ascertain the precise requirement is mandatory for ensuring the proper design as-well-as smooth execution of the project.



### System Design & Engineering

Based on findings of our technical feasibility study, we then fully customize the renewable hot water solution, which will result in optimal performance.



### Layout Planning

Next, the design of the detailed process is presented to our client in 2D/3D layouts, shadow simulation and instrumentation plan.



### Consultancy

We provide expert consultancy with regard to any type of renewable water heating solutions for hot water, for existing or new clients or projects.



### Turnkey Projects

We are experts at executing turnkey projects for Solar Water Heating Solutions, heat pumps or hybrid solutions with a combination of both heat pumps and solar water heating solutions as per the demand of the situation.



### AMC

Our Annual Maintenance Contract assures you of our best service for the maintenance and upkeep of your renewable hot water solution, always.

*'We ensure service post installation of the product. Our service offerings include annual maintenance contract, descaling, plumbing maintenance, spare part replacement and tank cleaning'.*





## THE Racold Advantage



Dedicated team of Racold engineers, right from need identification to project completion.



Racold's Flat Plate Collector comes with a unique Italian design. This includes (a) Screwless Construction (b) Box Type Structure (c) Textured Toughened Glass.



Flat Plate Collector is  
(a) Durable (b) Consistent in Performance  
(c) High in efficiency, throughout the lifespan of the product.



Racold offers customized tanks to suit tailor-made requirements. Capacity can be availed starting from 100 Liters Per Day to any capacity as per your need.



Racold's Evacuated Tube Collector offers high energy-efficient tubes in line with international standards and norms.



## REAL ESTATE



### Life Republic

Location - Pune  
Total Installed Capacity - 2,19,400 LPD  
Electricity Saved - 26,78,720 kWh  
Carbon Emission Reduced - 2,300 Tons

### Army Welfare Housing Organization

Location - Bangalore  
Total Installed Capacity - 2,32,000 LPD  
Electricity Saved - 28,32,558 kWh  
Carbon Emission Reduced - 2,432 Tons

### Bramha Suncity

Location - Pune  
Total Installed Capacity - 20,400 LPD  
Electricity Saved - 1,77,700 kWh  
Carbon Emission Reduced - 152 Tons

## HOSPITALITY



### Hotel Dreamland

Location - Mahabaleshwar  
Total Installed Capacity - 6000 LPD  
Electricity Saved - 66,000 kWh  
Carbon Emission Reduced - 57 Tons

### Ananda in Himalayas

Location - Uttarakhand  
Total Installed Capacity - 250 Kw  
Diesel Saved - 152,448 Liter  
Carbon Emission Reduced - 408 Tons

### Hyatt

Location - Pune  
Total Installed Capacity - 125 Kw  
Electricity Saved - 55,000 kWh  
Carbon Emission Reduced - 204 Tons

## HOSPITALS



### Lakeshore Hospital

Location - Cochin  
Total Installed Capacity - 352 Kw  
Electricity Saved - 2154022 kWh  
Carbon Emission Reduced - 1960 Tons

### West Bengal Hospital

Location - Across West Bengal  
Total Installed Capacity - 58,000 LPD  
Electricity Saved - 8,70,000 kWh  
Carbon Emission Reduced - 870 Tons

### Zydus Hospital

Location - Ahmedabad  
Total Installed Capacity - 15,000 LPD  
Electricity Saved - 1,09,883 kWh  
Carbon Emission Reduced - 94 Tons

### Shetty Hospital

Location- Udupi  
Total Installed Capacity - 176 Kw  
Electricity saved- 150002 kWh

## EDUCATIONAL INST.



### Sinhgad Technical Institute

Location - Pune  
Total Installed Capacity - 1,00,000 LPD  
Electricity Saved - 12,20,930 kWh  
Carbon Emission Reduced - 1,480 Tons

### Symbiosis

Location - Hyderabad  
Total Installed Capacity - 20,000 LPD  
Electricity Saved - 2,20,000 kWh  
Carbon Emission Reduced - 209 Tons

### IIT Mumbai

Location - Mumbai  
Total Installed Capacity - 21kwh + 33,000 LPD  
Electricity Saved - 1,33,000 kWh  
Carbon Emission Reduced - 134 Tons

## MANUFACTURING



### Croda Chemicals

Location - Navi Mumbai  
Total Installed Capacity - 25,000 LPD  
Electricity Saved - 3,05,232 kWh  
Carbon Emission Reduced - 262 Tons

### Bekaert Mukand Wire Industries

Location - MIDC, Lonand, Tal. Khandala  
Total Installed Capacity - 10,000 LPD  
Electricity Saved - 1,22,092 kWh  
Carbon Emission Reduced - 104 Tons

### L'Oreal

Location - Pune  
Total Installed Capacity - 32,000 LPD  
Electricity Saved - 3,90,697 kWh  
Carbon Emission Reduced - 335 Tons





Reborn Everyday With Hot Water



**After-sales service**

Racold leads the way in service support with:

- Nationwide service technicians with over 300 service centres
- Use of genuine Racold spare parts

Racold is a registered trademark of Ariston Thermo Spa, Italy.



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