

**CASCADE**  
SOLAR POWER  
Take the Heat of me

**THE UNLIMITED  
POWER OF THE SUN**

**BROUGHT TO YOU BY  
CASCADE**

*Hotter &  
Faster*

# CASCADE

SOLAR POWER  
Take the Heat of me

The Sun radiates 180 billion MW of energy over the earth. Just one hour of this energy could meet the power needs of the entire Planet for a year. This energy is also absolutely clean, Pollution free, inexhaustible, free & abundantly available everywhere for anyone.

## SOLAR POWER: CLEAN, POLLUTION FREE AND INEXHAUSTIBLE

Cascade brings you the unlimited power of the sun, and a lifetime free of power tariff hikes

## SOLAR WATER HEATERS

largest selling  
solar water heater  
Hotter & Faster

Cascade is one of the largest manufacturers of Solar Water Heater in India having installations almost in all parts of the country. The Cascade Solar Collectors has the highest peak efficiency in India at 79% peak which no Indian company claims. 5 Deg hotter than others, Tank cleaning option (exclusive to cascade) Concealed electrical back up to protect from electric shock, consistent discharge at constant temperature, all stainless steel construction are some of the highlights of this products. Available from 100 Ltrs to any capacity in various models suitable for any water conditions.



## CASCADE'S EXPERTISE



With 60 years of experience in stainless steel industry Cascade has one of the finest manufacturing facility to churn out quality products that pass stringent tests at all levels.

The plasma welding with chill back technology delivers smooth bead welds on both sides ensuring longer service life of storage tanks.

Unique multi level grooves ensures higher pressure compatibility.

Stainless steel support structures are aesthetically designed to provide unhindered service to the life of the product. Collectors are made up of 99.9% pure copper.



**Fit it | Enjoy it**  
 With no electricity bills to pay

79%  
 peak  
 efficiency  
 5°  
 hotter than others

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 SOLAR POWER

## Unique features

### Tank cleaning option

During operation the solar system develops very high temperature and develops deposits in the tank. Continuous accumulation of deposits will result in reduction in circulation and the capacity output will vary over the years. This one of a kind facility 120 mm width from cascade facilitates easy removal of deposits.



### Highest efficiency in India

Cascade has the most efficient panels in India rated at 79% peak efficiency.



### 5 Deg more than others

Due to its peak efficiency Cascade delivers 5 Deg hotter than other systems.



### Just 1 deg c drop till the last ltr

In normal solar systems the output temperature will vary between 5 to 7 Deg for every 10% of water drawn. Cascade's Unique design ensures hot water output at the same temperature till 90% of output and varies only 1 Deg from the last 10% output.



### Concealed electrical back up.

The electrical back up provided in Cascade solar system is concealed and hence shock proof. Since this back up is used in winter rainy season, open wired system might develop short circuits due to water / moisture entry.



### Standards

Cascade is the first solar water heater tested in India for whole system by Regional Solar Energy Testing Centre Madurai Kamaraj University. Normally only the collectors carry ISI certification.

IS: 12933  
 Part 1: 2003



CM/L 6399592

### Energy Saving

Even during winter minimum temperature attainable in cascade is 35 to 38 Deg C, hence only a small amount of temperature rise is required. Accordingly provision for electrical heater is placed in middle of the tank and heats only half the capacity while thermostat automatically cuts off the power when set temperature is reached.



**5 Year Warranty** on storage tank – glass panel excluded. Warranty on all electrical parts 2 years.



### How to calculate the required size of solar water heater

Family Size	4	5	8	10	12	15	20
Maximum number of outlets	2	3	4	5	6	7	10
Capacity Recommended	100	125	200	250	300	375	500
Maximum length of hot-water line possible	10	15	20	25	30	35	50

Or just log on to [www.visitcascade.com/save](http://www.visitcascade.com/save) to find out your exact requirement and as well how much you would save on electricity bills, installing a solar water heater

# EQUATOR

## CASCADE **P** **EQUATOR** **E**

EQUATOR - highly advanced PUF insulated unit to retain heat for more than 72 hours. Comes with All Stainless Steel constructions including stand

**Puf Insulated**



**UNIQUE**  
**All**  
Stainless Steel  
tank & stand

Patent Pending No. 193792-DITKB/AB



## CASCADE Compacta



An advanced model of solar heating system with extended collector tubes of length 1500 and 1800 mm. Available in 100 150 200 and 300 LPD

## CASCADE CELESTI Pressure Systems



**Capacity : 100 to 500 LPD** This model is recommended in house where the over head tank is at a very high level or a pressure booster pump is installed. Celesti has a greater pressure withstanding capacity with its heavy-duty tank and can operate at pressure ranging between 2.0 and 6kg/cm<sup>2</sup>, custom designed tank to operate with much higher pressure also can be designed. These systems are provided with pressure and vaccum relief valve

PUF insulated and available in capacities 100, 200, 300, 400, 500 LPD in domestic and any capacity in large systems

# CELESTI

Depressurizer systems are recommended in colonies where the overhead tanks are too large and placed at a higher level. These systems have an additional tank with a float control, which feeds the solar systems at a reduced pressure. Air vent up to the height of the additional tank is sufficient. Available from 100 to any capacity.



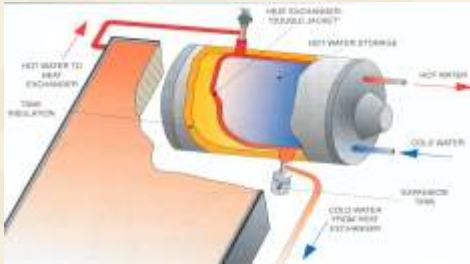
**CASCADE**  
**Duojack**

**Double Jacket Systems**

These systems are used in places where water hardness is more than 200 ppm. This unit avoids scaling in the collectors and are effective for water having hardness up to 500 ppm and total dissolved solids up to 1000 ppm. Available in capacities 100 200 300 400 500 and up to any capacity.

Accessories:

Expansion tank and Insulated circulation piping.



**INDUSTRIAL SOLAR WATER HEATERS**

Cascade Industrial Solar Water Heaters are highly energy efficient and cost effective. They are suitable for a wide range of industrial applications and are custom designed for variable backup fuels like LPG, Oil, Electricity etc., These high performance water heaters comes in two variants:

**CASCADE**  
**Expanza**

**750 to 5000 LPD PUF Insulated**

**E X P A N Z A** - The first of its kind low profile all stainless steel industrial system with PUF insulation of capacity 750 to 5000 LPD



- Highlights**
- PUF insulation
  - 18.8% enhanced system efficiency
  - Seam welded rain proof exterior
  - Concealed electrical back-up
  - Uniform discharge till the last litre.
  - Maximum reduction is just 3 Deg C.
  - Low profile installation
  - No site cladding
  - Easily upgradeable and easily can be shifted from place to place if required.
  - Aesthetically designed







# CASCADE INDUSTREE Industrial System

INDUSTREE - Standard Industrial systems above 750 LPD to 1, 00,000 LPD.



## CASCADE

**Passive Architecture** Due to its advanced technology Cascade provides excellent scope in this area of blending.

- Advantages** - Optimised efficiency - Minimum pipe line distance ensure immediate hot water - Panels merge along with sloping roof enhancing aesthetical view - Storage tank inside the roof / building, reduces heat loss - Suitable for apartments where roof area is not available



A network of service centres spread across Tamilnadu, Mumbai, Pune, Kolkata, Andhra Pradesh, Karnataka, Kerala, geared to respond to your needs promptly

## Cascade Range of Water Heaters



Advantage Cascade



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Take the Heat off me

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