



Rising with the sun...

**STAINLESS STEEL TANKS**  
**SOLAR WATER HEATERS**  
**HEAT PUMPS**



[www.sunstellar.in](http://www.sunstellar.in)



# STAINLESS STEEL WATER TANKS SOLAR WATER HEATERS HEAT PUMPS

## ABOUT US

We, at Sun Stellar, pride ourselves in delivering innovative, high-performing and competitive products and services in the area of Solar Thermal and Solar Power Energy for Over Fifteen Years Now. With the team of technocrats and continuous R&D we have always been one step ahead of our competitors. We have made our mark with excellent quality control and commitment to our customers and channel partners.

Aiming at strategic expansion we have forayed into Water Storage Industry with Stainless Steel Water Tanks and Energy Efficient water Heating Solutions with Heat Pump Based Water Heaters.

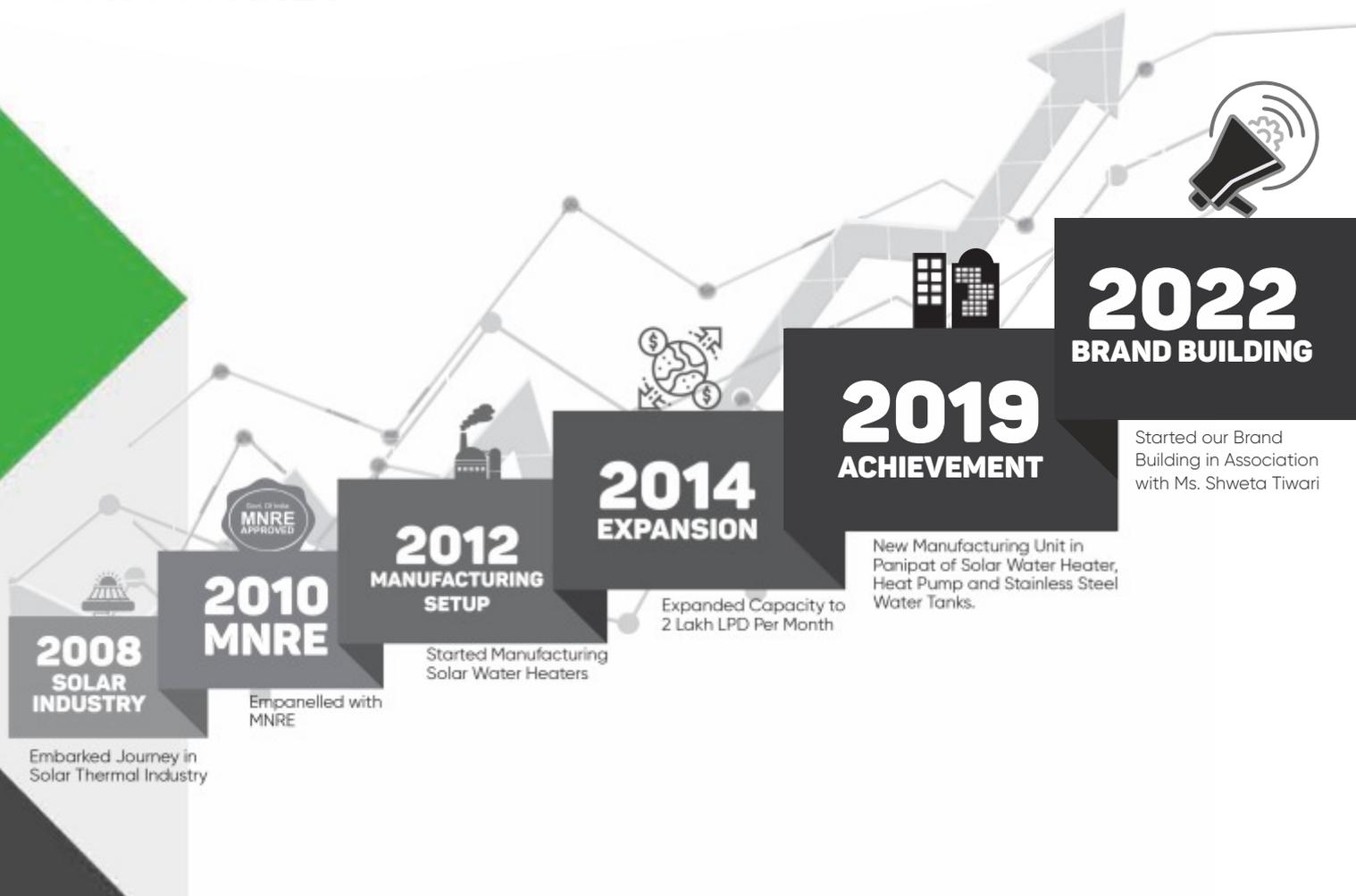
## OUR VISION

The vision of our company builds on a long-standing narrative behind our Environment Changing philosophy in line with our Corporate Strapline of change for the Betterment of tomorrow. To be a leader in businesses that helps our fellow Indians enrich their lives and contribute to nations growth through a sustainable value creation.

## OUR MISSION

Helping our customers adopt a way of living with minimum energy foot print and maximum Health benefits with the use of renewable energy, energy saving devices and plastic free water storage Products. Passionately strive to enrich our consumer's a quality life.

## OUR JOURNEY



## WHY CHOOSE SUN STELLAR?

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We are working with new energy and endeavours to unlock exceptional values for our customers. We take pride in manufacturing India's most Sustainable product portfolio for every home under one roof. The company has always been technologically advanced, solution focused, driven by strong passion for environmental and social contribution, combined with high creativity and integrity. We believe in maintaining ecological equilibrium and are committed towards manufacturing energy saving products. Sun Stellar is pioneer in bringing the revolutionary services in,

- Renewable Energy Products
- Energy-Saving Devices
- Plastic-Free Water Storage Products







Rising with the sun...

**PRESERVE  
YOUR WATER,  
SAFE GUARD  
YOUR HEALTH**



99.99 %  
Pure Water



Maintains  
Water  
Temperature



# STAINLESS STEEL FOR LIFE

For decades, Stainless Steel has been used as a trusted material for almost everything around us.



**PHARMACEUTICAL  
INDUSTRY**



**DAIRY AND MILK  
PROCESSING**



**CUTLERY AND  
KITCHENWARE**



**FOOD PROCESSING  
INDUSTRY**



**RAIL AND  
METRO**



**DENTAL  
REQUIREMENT**



**SURGICAL  
TOOLS**



**POWER  
GENERATION**

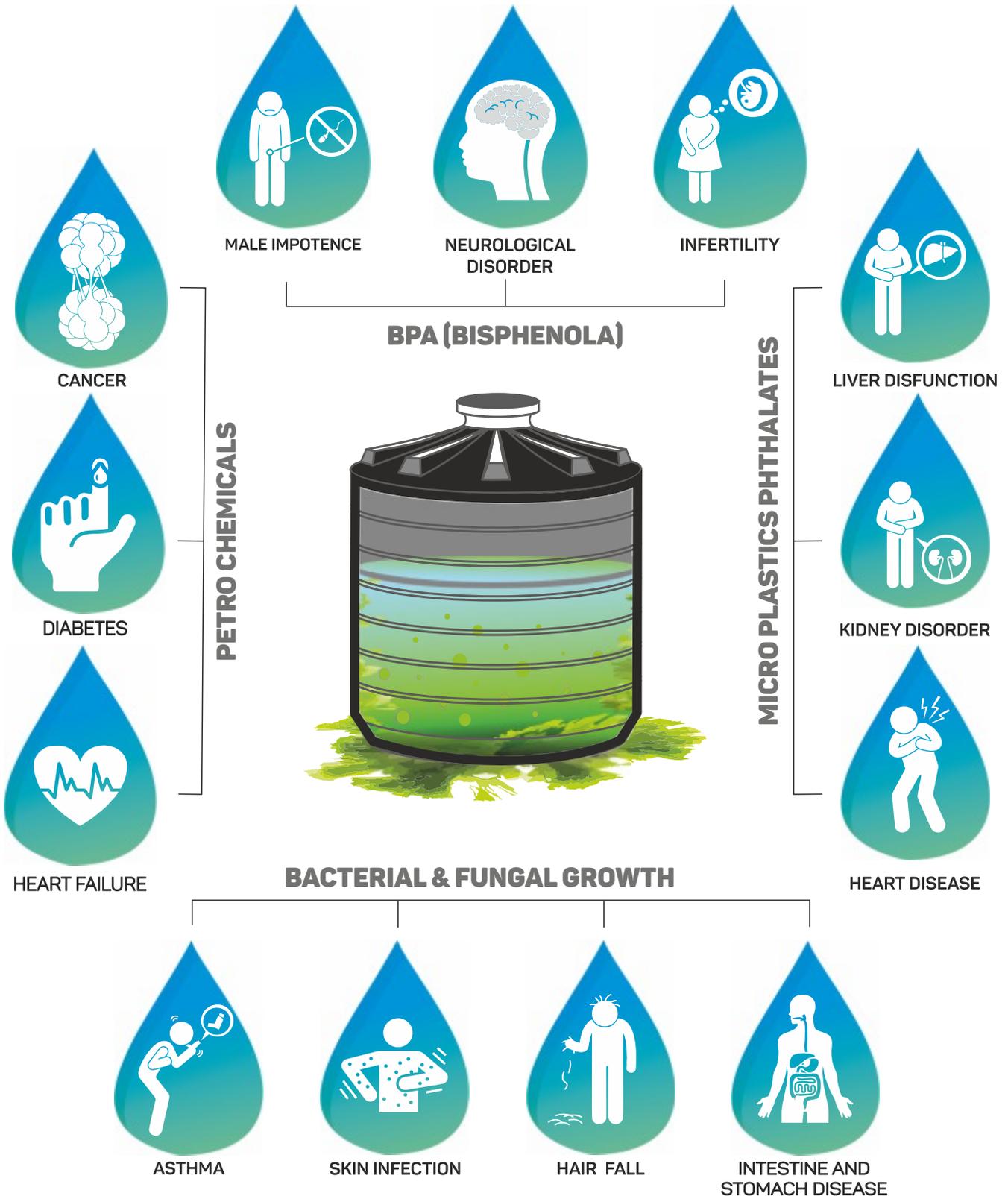


**BONE CAP**

**STAINLESS STEEL**  
**A CONTEMPORARY SOLUTION FOR WATER STORAGE!!**

# PLASTIC TANKS ARE HAZARDOUS

AS PER VARIOUS RESEARCHES CARRIED OUT BY:



# ADDING A STELLAR TOUCH FOR A HEALTHY & BETTER

Today, Tomorrow



**Zero Bacterial/  
Fungal Growth**



**Maintains  
Temperature**



**Long Life  
Zero Maintenance**



**No Chemical  
Contamination**



**100% Surgical Grade  
Stainless Steel**



**100% BPA Free**



**No Foul Smell**



**Pure Water  
Keeps your body Healthy  
& Disease Free**

# STELLAR PURE

## 5 LAYER TECHNOLOGY



**Stellar Pure** Water Tanks adopts most prudent – 5 Layers technology with each layer serving a distinct function of its own.

The Inner Layer of the tank which is in contact with the water is made of Either Surgical Grade Stainless Steel – 316 or Titanium Stainless Steel SS 316 Ti ensuring that the water remain in its purest form. Three Layers of Insulations are applied on the inner layer comprising of Climate Control Coating , Nitrile Foam Layer and High Density Polyurethane Foam ( PUF ) ,these 3 Layers are engineered in a such a way that the water temperature inside the tank doesn't get affected by harsh weather conditions be it chilling winters or extreme hot summer months. The fifth layer of the Tank also called the Cladding layer is made of Stainless Steel 304 Grade which protects all the inner layers from any kind of damage

## FEATURES



Inner Tank Available with Surgical Steel SS 316 L , Titanium Steel SS 316 Ti And Super Duplex SS 2205 .



Maintains Temperature of Water . ( Outside Temperature : 0 to 50 Degrees C )



Design Life of 15-20 Years and Warranty for 10 Years



Dow Chemical – Best Suited PUF insulation for SS Tanks



Automatic Water Level Controller



Thickness of Inner Tank Options - 0.8 MM , 1.0 MM & 1.5 MM

# STELLAR ULTRA 7 LAYER TECHNOLOGY



**Stellar Ultra** is the most contemporary solution for Water Storage. These Water Tanks are engineered with Cutting Edge 7 Layer Technology .Inner Layer of Stellar Ultra Tanks can be selected out of Titanium Steel – SS 316 Ti or Super Duplex SS 2205 or Super Alloy 904 L depending on the Water Quality and Water Source. Five Layers of Insulation are consecrated on the Inner Tank which makes it resistant to the odds of Fire also. Outer Cladding Layer is done with SS 304 which protects all the inner layers from any kind of deterioration.

## FEATURES



Inner Tank Available with Surgical Steel SS 316 L , Titanium Steel SS 316 Ti And Super Duplex SS 2205 .



Maintains Temperature of Water . ( Outside Temperature : 0 to 50 Degrees C )



Fire Proof Insulation Layer



Dow Chemical – Best Suited PUF insulation for SS Tanks



Automatic Water Level Controller



Thickness of Inner Tank Options - 1.0 MM & 1.5 MM

# STELLAR **SOLITAIRE** CUBICAL STAINLESS STEEL TANK



Sun Stellar Solitaire Tanks are Customized Cubical Stainless Steel Water Tanks with multiple layers of insulation which can be customized into Cubical or Square Shape. These Tanks can be customized in various sizes. In respect to their shape these tanks are considered to be a perfect aesthetic part of an elevation of a modern architecture. These Cubical tanks are approved by all the architects in terms of blending well with the elevations. These tanks come in various finishes and textures to go with the aesthetics, such as black matt, Chrome gloss and matt finish etc.

Also, these Tanks are Safe for storing drinking water as they are made from FDA approved material. These are Weatherproof, waterproof, moisture proof and perfect rooftop solution. These Water Tanks satisfy relevant Food Sanitation Standards.

These Tanks are made with advanced manufacturing Technology with minimal welding and reinforced structure to support the tank's inner layer. These Cubical Shape SS Tanks are made of SS 316 L or SS 2205 Grade Material with thickness of 1.5mm, 2mm or up to 5mm to provide longer life and best of hygiene.



## FEATURES



These Tanks are inspired from precious Diamonds, thus giving great aesthetic and merge very well with the Elevation of modern architecture.



The Inner Layer of these tanks are reinforced with Steel Tube Structures on all sides, giving these tanks additional strength to hold large volumes of water with minimum welding.



Easy drainage with the help of sloping centre bottom design and selection of heavy gauge Stainless Steel Inner layers makes these tanks long standing.



These tanks are made with most advanced 7 Layer Technology which gives high insulation against both cold and hot weather conditions.



These tanks are 100 % Customised as per Architects requirement in terms of Height and Sizes as per Space Available on site.



The square and cubical shape of the tanks makes it easier to reduce the height of large volume tanks thus making these tanks Vaastu Compliant.



# STELLAR **COCOON** DOUBLE INSULATED TECHNOLOGY



We are Proud to introduce **First Time in India**  
**STELLAR COCOON.**

A Tank Specially Designed for Extremely Cold Regions where it is difficult to maintain the liquid state of Water during day or more often post sunset.

These Tanks are insulated with a Thick Layer of High Density German Bayer PUF insulation from top , sides and Bottom As well.

This Peculiar Design isolates the water inside the Tank from Freezing Temperatures outside thus making sure that the water doesn't freeze even in Sub Zero Climate Conditions.

### FEATURES



Water doesn't freeze upto  
-20 Degrees Centigrade



No need for any extra  
Insulation or separate  
covered area



Design life of over 20 Years  
and Warranty for 10 Years



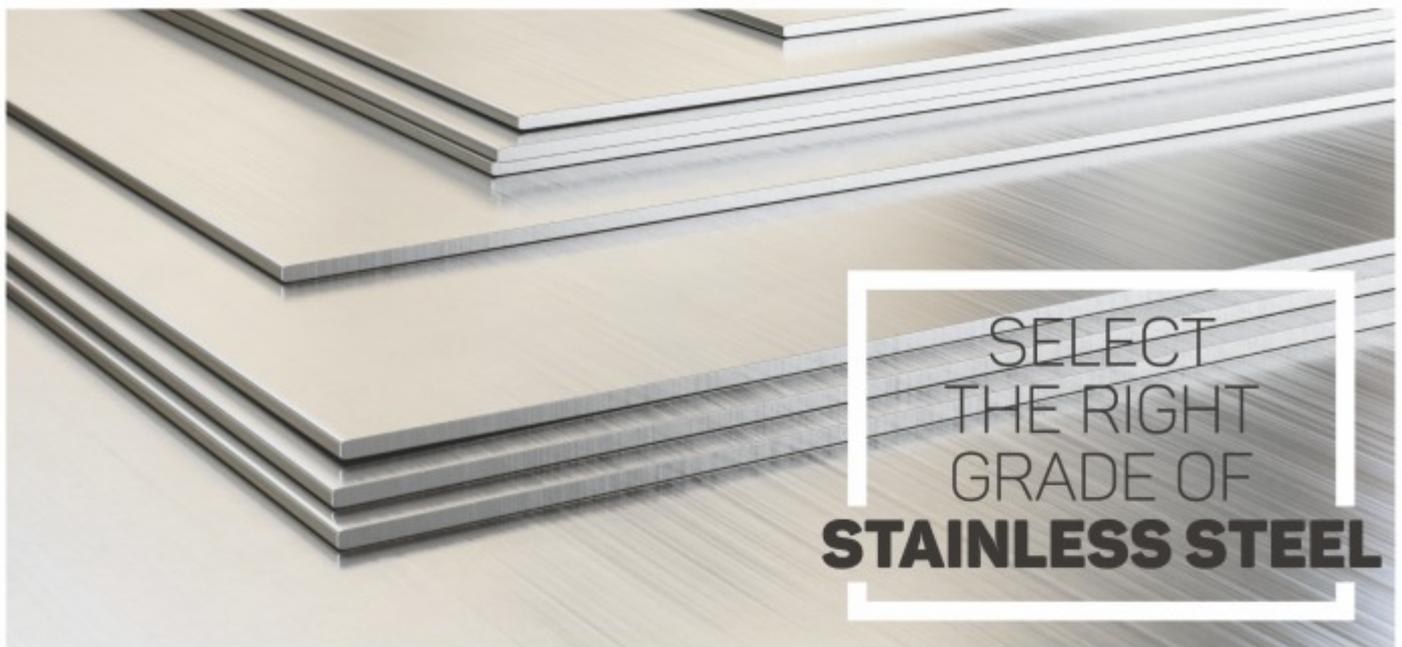
Saves Electricity / Energy for  
maintaining water  
temperature



Comes with Heavy duty  
stand designed to withstand  
snow and high speed wind.



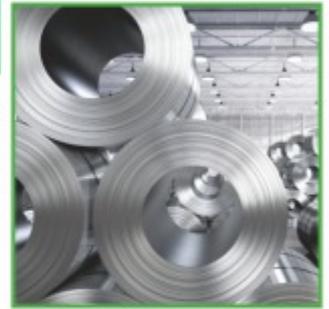
SS 304 / 316 Inner Tanks  
Option with 0.8 MM and  
1.0 MM Thickness



SELECT  
THE RIGHT  
GRADE OF  
**STAINLESS STEEL**

## AUSTENITIC FOOD GRADE STAINLESS STEEL - 304

304 Grade Stainless Steel is the most versatile and widely used stainless steel. The Steel contains both chromium and nickel which makes it a corrosion resistant under mild environment. It is considered resistant to pitting corrosion with water having TDS upto 400mg/L at ambient Temperatures.



### Chemical Composition of SS 304

ASTM	EN	%C	%Si	%Mn	%P	%S	%N	%Cr	%Ni
304	EN 1.4301	0.07	1	2	0.045	0.015	0.1	17.5-19.5	8.0-10.5

## SURGICAL STAINLESS STEEL - 316

Grade 316 is the standard molybdenum-bearing grade, second in importance to 304 amongst the austenitic stainless steels. The molybdenum gives 316 better overall corrosion resistant properties than Grade 304, particularly higher resistance to pitting and crevice corrosion in chloride environments.



### Chemical Composition of SS 316

ASTM	EN	%C	%Si	%Mn	%P	%S	%N	%Cr	%Ni	%Mo
316	EN 1.4404	0.07	1	2	0.045	0.015	0.1	16.5-18.5	10.0-13.5	2.0-3.0

## SURGICAL STAINLESS STEEL WITH TITANIUM - 316 Ti

316Ti is a titanium stabilised version of 316 molybdenum-bearing austenitic stainless steel. The 316 Ti alloys are more resistant to inter granular corrosion than the standard 316 Alloys because of the addition of Titanium.



### Chemical Composition of SS 316 Ti

ASTM	EN	%C	%Si	%Mn	%P	%S	%N	%Cr	%Ni	%Mo	%Ti
316 Ti	EN 1.4571	0.08	1	2	0.045	0.015	0.1	16.5-18.5	10.0-13.5	2.0-3.0	0.7

## SUPER DUPLEX STAINLESS STEEL – 2205

Alloy 2205 is a duplex ( Austenitic and Ferritic ) Stainless Steel. The high chromium, molybdenum and nitrogen contents results in excellent corrosion resistance properties even in environments containing chlorides and sulphides. It also has good erosion fatigue properties and the yield strength is twice of that of SS 304 / SS 3016 .

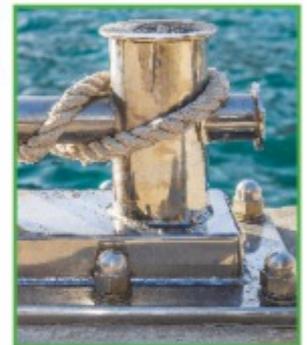


### Chemical Composition of Super Duplex 2205

ASTM	EN	%C	%Si	%Mn	%P	%S	%N	%Cr	%Ni	%Mo
2205	EN 1.4462	0.03	1	2	0.03	0.035	0.14-0.20	21-23	4.5-6.5	2.5-3.5

## SUPER ALLOY STAINLESS STEEL – 904 L

904 L is the most Superior low carbon , high Alloy Stainless Steel . 904L Alloy performs better than all other austenitic stainless steels due to the higher alloying of nickel and molybdenum. 904 L has greater resistance to precipitation of ferrite and sigma phases on cooling and welding than other stainless steels. 904 L is the best available option for Water Storage in areas with extreme hardness or high chemical contents in Ground or Supply Water .



### Chemical Composition of Super Alloy Stainless Steel 904 L

ASTM	EN	%C	%Si	%Mn	%P	%S	%N	%Cr	%Ni	%Mo	%Cu
904 L	EN 1.4539	0.02	1	2	0.045	0.035	0.1	19-23	23-28	4.0-5.0	1.0-2.0

## TDS ( TOTAL DISSOLVED SOLIDS ) AND WATER SOURCE

TDS and Water Source plays an important role in the selection of Right Grade of Stainless Steel. Hards Water with High Dissolved Chemicals can cause stress and pitting corrosion in Stainless if the right grade is not selected .

Grade	Water Source	Water Type	TDS ( PPM )	Chloride ( Cl ) ( mg/L )	Chlorine ( Cl2 ) ( mg/L )	Design Life
SS 304	Ground Water / River Water Supply	Soft	<300	<200	<2	15 Years
SS 316		Hard	<500	<300	<3	15 Years
SS 316 Ti		Hard	<600	<400	<3	15 Years
Duplex 2205	Brackish Water / Polluted Water	Very Hard	<2000	<1000	<5	20 Years
Super Austenitic 904	Brine Water / Sea Water	Extremely Hard	<10000	<5000	<5	20 Years

## SPECIFICATIONS

CAPACITY (LTRS)	Inner Diameter (MM)	Outer Diameter (MM)	Height With Stand	Inlet Connection	Outlet Connection	Over Flow Connection	Drain Connection
250	690	760	1200	1 "	1 "	3/4 "	1 "
500	690	760	1830	1 "	1 "	3/4 "	1 "
750	970	1070	1600	1 "	1 "	3/4 "	1 "
1000	970	1070	1830	1 "	1 "	3/4 "	1 "
1500	1220	1320	1900	1 "	1.5 "	3/4 "	1.5 "
2000	1420	1520	1900	1 "	1.5 "	1 "	1.5 "
2500	1420	1520	2160	1 "	1.5 "	1 "	1.5 "
3000	1420	1520	2460	1 " / 1.5 "	1.5 "	1 "	1.5 "
	1600	1700	2100				
4000	1600	1700	2500	1.5 "	1.5 "	1.5 "	1.5 "
5000	1600	1700	3100	1.5 "	2 "	1.5 "	2 "
7500	1960	2200	3100	2 "	2 "	1.5 "	2 "
10000	1960	2200	4000	2 "	2 "	1.5 "	2 "



### LARGE MAN HOLE

Easy to clean

Facilitates in easy inspection



### LOCKABLE LID

Prevents entry of Insects and animals

Protects from opening itself in bad weather conditions



### EXTRA REINFORCED BODY

Ribbed wall provide aesthetic look and strength

Provides additional structural strength

Protects from any pressure exerted by the water

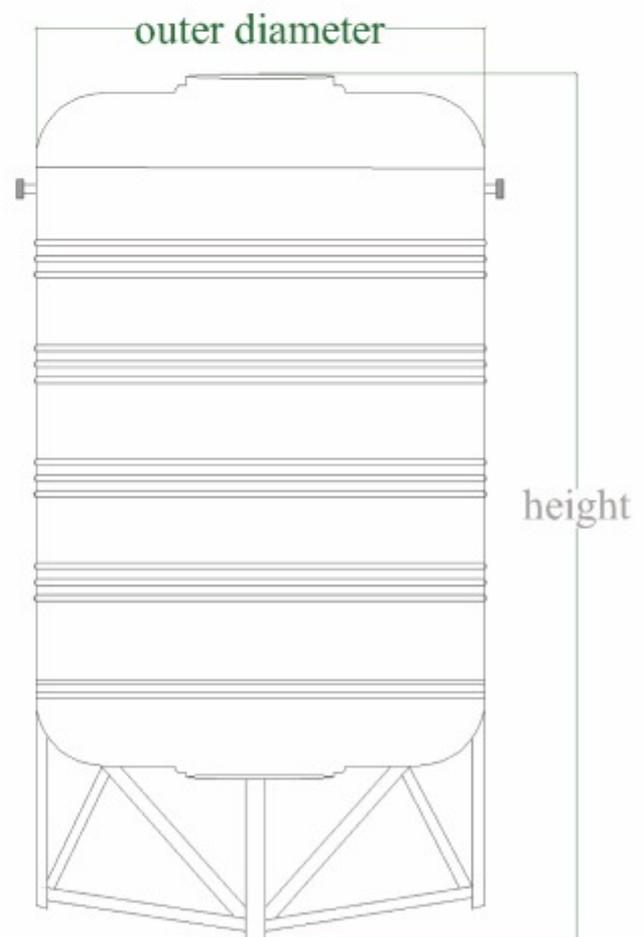


### UNIQUE ROUND BASE

Unique round base

It has special drain fitting at the bottom

The dome shape makes a whirlpool while Cleaning the tank





VIETNAM EMBASSY, NEW DELHI



GREATER NOIDA



GURGAON



SAFDARJUNG ENCLAVE, NEW DELHI



KARNAL



SHOPPING MALL, NEW DELHI



PALAM VIHAR, GURGAON



PANCHKULA



TDI CONNAUGHT, PANIPAT





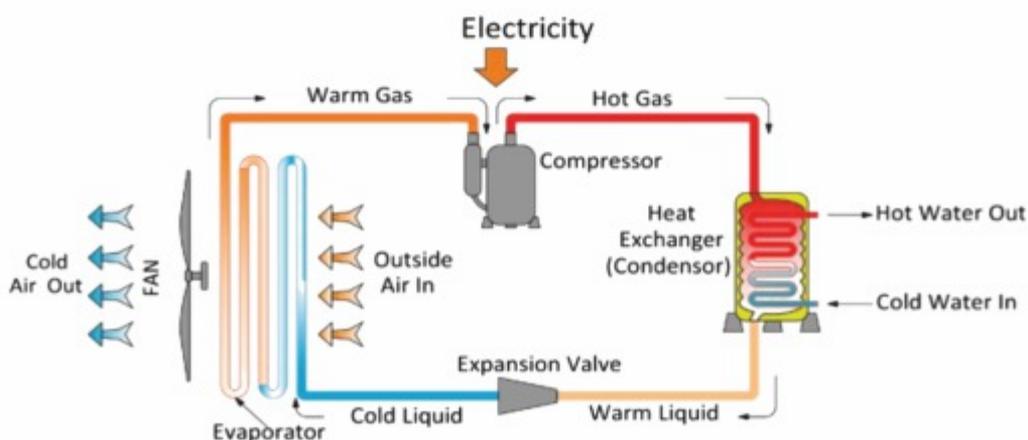
## HEAT PUMPS

A heat pump is a reverse refrigerator that takes heat from the surrounding air and transfer that heat to the water stored in a tank. It uniquely converts unused "ambient heat" into heat of utilisation temperature by adding very little amount of primary energy without burning fossil fuels as a source of CO<sub>2</sub> emission. The aim is to reduce usage of fossil fuels and contributing to cleaner air quality.

### HOW DOES IT WORK?

An air-source heat pump has three cycles: the heating cycle, the cooling cycle and the defrost cycle. The ability of the heat pump to transfer heat from the outside air to the house depends on the outdoor temperature. The operation begins with air being forced through an evaporator which contains liquid refrigerant with the help of a fan.

### Heat Pump Working principle



## WHY HEAT PUMPS?

It uses 75% less electricity compared to conventional water heating solutions such as oil boilers or electric heaters. This range saves on operating costs by tapping into the heat in the air in a safe and affordable way. You can satisfy your customers while saving on your energy bills. It is ideal for commercial applications like in hotels, hospitals, spas, hostels etc. where hot water is needed in large volumes



## FEATURES OF HEAT PUMPS:



### CONSTANT HOT WATER

Heat pump provide constant hot water no matter whether its cloudy, snowy or at night also it does need to be facing the sun.



### ISOLATED SAFE CONDENSER

Our heat pumps are designed as per European standards, this also ensures safety and superior conduction of heat.



### LOWER RUNNING COSTS

Heat pumps are cheaper to run than systems based on combustion. The more energy efficient the systems are, the greater long term savings on energy



### ENVIRONMENT FRIENDLY

Heat pumps work economical, effective and at the same time environmentally friendly. They guarantee the heat supply of single, double, or multi-family houses by Reducing the electricity consumption.



### HIGH EFFICIENCY COMPRESSOR

Heat pumps are highly efficient as they move heat rather than generate it, heat pumps can provide much more energy than they consume. thus also helps in increasing our savings.



### MAGNESIUM ANODE

Heat pump water heater comes with factory fitted magnesium anode which protects the tank against the corrosion enhancing the life of the storage tank.



### INTELLIGENT CONTROLLER

Heat pumps have smart digital controllers to set Temperature and the time when hot water is required.



### WIDE APPLICATION

Pumps are an ideal heating and hot water system for a wide range of applications from homes to swimming pools, and from domestic to commercial.

Sun Stellar Heat Pumps Comparison with Conventional Technologies and Solar Thermal

Parameters	Heat Pump	Solar Thermal + Heat Pump	Solar Water Heater	Electric Water Heater	LPG Fired Water Heater	Diesel Fired Water Heater
Energy Source	Electricity	Solar + Electricity	Solar	Electricity	LPG	Diesel
Energy Savings W.R.T Conventional	Upto 75%	Upto 90%	Upto 70%	N.A.	N.A.	N.A.
Climate Dependent	No	No	Yes	No	No	No
Space Requirement	Low	High	High	Low	Low	Low
Efficiency (Assumed)	400%	500%	300%	95%	80-85%	80-85%
Recurring/Maintenance Cost	Minimal	Minimal	Minimal	High	Moderate	High
Safety	Yes	Yes	Yes	Moderate	Very Low	Moderate
Depreciation	70-80%	70-80%	70-80%	No	No	No



## DOMESTIC HEAT PUMPS



Using renewable energy heat sources from the ambient air to heat water, these heaters can provide hot water round the clock and throughout the year in an energy efficient and affordable way. Heat pump Water heaters are the right solution for Domestic hot water applications.

## APPLICATIONS

Luxury Bungalows



Steam Baths



### Domestic Heat Pump - Split Type With Hot Water Tank

Parameter	ST-HP-3.5/150 L	ST-HP-3.5/200 L	ST-HP-5/300 L	ST-HP-7/500 L
Heating Capacity	3.5 kW	3.5 kW	5 kW	7 kW
Tank Capacity	150 L	200 L	300 L	500 L
Power Supply ( V/Ph/Hz )	220-240 / 1 / 50 Hz			
Rated Input Power	0.9 kW	0.9 kW	1.34 kW	1.87 kW
Rated Output Temperature	55 Degrees C			
Maximum Output Temperature	60 Degrees C			
COP Range**	3.6 - 3.8			
Discharge Direction	Side Discharge	Side Discharge	Side Discharge	Side Discharge
Compressor Type	Rotary	Rotary	Rotary	Rotary
Compressor Size	1HP	1HP	1.5HP	2HP
Compressor Make	Panasonic / GMCC	Panasonic / GMCC	Panasonic / GMCC	Panasonic / GMCC
Circulation Pump Make	Wilo	Wilo	Wilo	Wilo
Refrigerant Gas	R410A	R410A	R410A	R410A
Hot Water Produced ( Lt/Hr )	85	85	125	175
Control Panel	LCD Display - Multi Function Control Panel With Protection and Safety Features			
Defrosting	Automatic Defrosting			

### Heat Pump Mechanical Parameters

Size ( W*L*H) MM	900*320*520	900*320*520	1000*365*560	1000*365*560
Gross Weight ( Kg )	55	55	60	65
Noise dB(A)	≤50	≤50	≤52	≤52
Water In/Out Connection	DN 20	DN 20	DN 20	DN 20

### Tank Mechanical Parameters

Inner Tank Material	Stainless Steel - 304/316/904 L or Glass Lined Steel			
Insulation	High Density German Bayer - PUF ( Dow Chemicals )			
Size - Diameter / Height (MM)	Dia-480/H-1420	Dia-580/H-1280	Dia-580/H-1750	Dia-740/H-1650
Water In/Out Connection	DN 20	DN 20	DN 20	DN 25

\*\* COP Testing Conditions - Inlet Water 15 Degree C ,  
Outlet Water 55 Degree C ( Max 60 Degree C ) -  
Dry Bulb Temperature

**Jacuzzi**



**Shower Panels**





## COMMERCIAL HEAT PUMPS

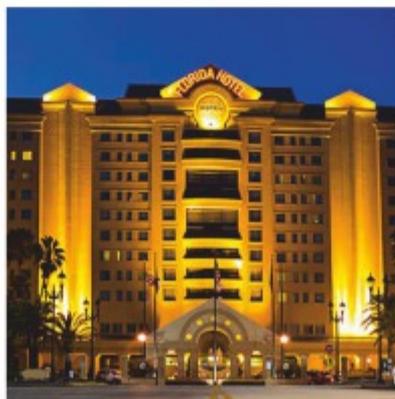
The commercial HEAT PUMP is one of many energy-efficient technologies which draw heat from renewable sources. Our impressive line of environmentally friendly offerings has now been expanded to include such innovative commercial products in the market. The commercial heat pumps are extremely versatile and can be configured and equipped for hot water supply of commercial projects which need large water volume supply.

## APPLICATIONS

High Rise Apartments



Hotels



Hospitals



Commercial Heat Pump				
Parameter	ST-HP-10	ST-HP-11	ST-HP-19.5	ST-HP-38
Heating Capacity	10 KW	11 KW	19.5 KW	38 KW
Power Supply ( V/Ph/Hz )	220-240 / 1 / 50 Hz		380V / 3 / 50Hz	
Rated Input Power	2.45 KW	2.7 KW	4.8 KW	9.6 KW
Environment Temperature	(-) 7 Degree C to (+) 45 Degree C			
Rated Output Temperature	55 Degrees C			
Maximum Output Temperature	60 Degrees C			
COP Range**	3.8 - 3.9			
Discharge Direction	Side Discharge	Top Discharge	Top Discharge	Top Discharge
Compressor Type	Rotary	Scroll	Scroll	Scroll
Compressor Size	3 HP	3 HP	5 HP	5 HP * 2
Compressor Make	Panasonic / GMCC	Copeland	Copeland	Copeland
Circulation Pump Make	Wilo	NA		
Refrigerant Gas	R410A	R 407 C		
Hot Water Produced ( Lt/Hr )	215-230	250-270	470-500	950-1000
Control Panel	LCD Display - Multi Function Control Panel With Protection and Safety Features			
Defrosting	Automatic Defrosting			

Heat Pump Mechanical Parameters				
Size ( W*L*H) MM	830*490*1160	710*710*870	810*810*1030	1500*750*1030
Gross Weight ( Kg )	96	106	155	300
Noise dB(A)	≤55	≤55	≤58	≤66
Water In/Out Connection	DN 25	DN 25	DN 25	DN 32

\*\* COP Testing Conditions - Inlet Water 15 Degree C ,  
Outlet Water 55 Degree C ( Max 60 Degree C ) -  
Dry Bulb Temperature -20 Degree C

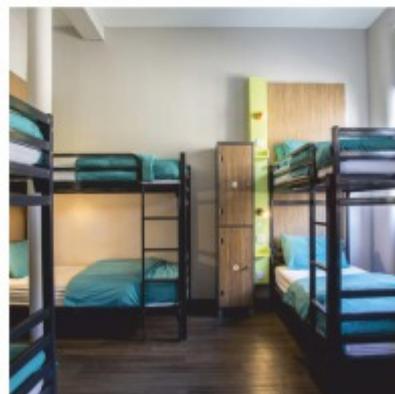
Swimming Pools



Salons



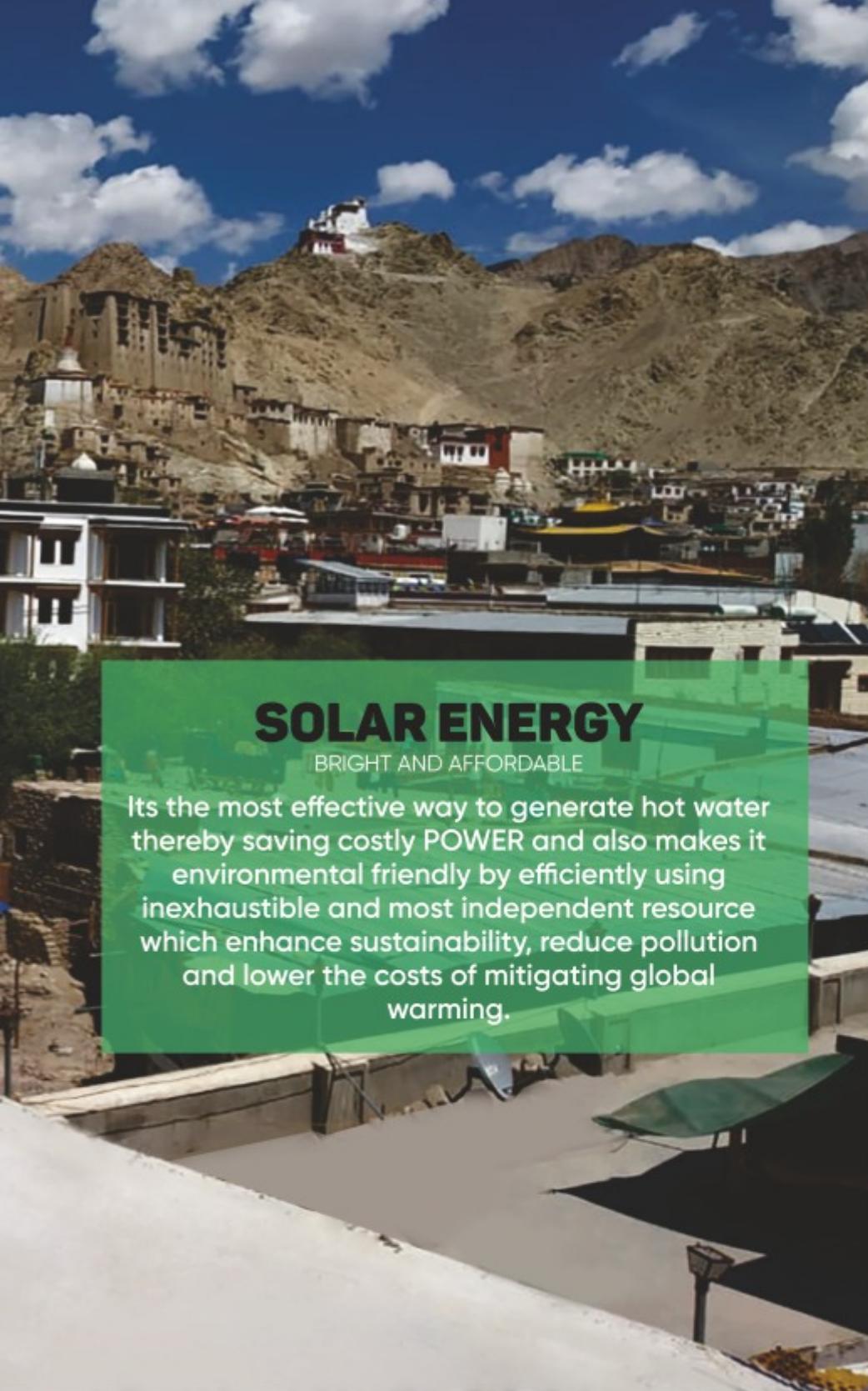
Hostels





## **SOLAR WATER HEATER**

Solar Heating System Is Basically A Natural Method Of Converting Sunlight Into The Heat For Water Heating, Using A Solar Thermal Collector. This System Works On The Thermosiphon Principle And Is Designed To Provide Hot Water Without Consuming Expensive Electricity. These Systems Are Mostly Used For Residential And Industrial Purposes. The Extra Thick SS Inner Tank & High Density PUF Insulation Makes Sun Stellar Solar Thermal Tanks One Of The Best In North India. Sun Stellar Has one of the Most Technologically Advanced Manufacturing Facility For Vacuum Types Solar Water Heater With The Capacity Of 2000 Tanks. Our Products Have Been Tested And Verified By Regional Testing Institute Of MNRE.



## SOLAR ENERGY

BRIGHT AND AFFORDABLE

Its the most effective way to generate hot water thereby saving costly POWER and also makes it environmental friendly by efficiently using inexhaustible and most independent resource which enhance sustainability, reduce pollution and lower the costs of mitigating global warming.

WHY CHOOSE STELLAR SOLAR WATER HEATER ?



### CNC PROCESS

We Use CNC Based Automatic Punching Process



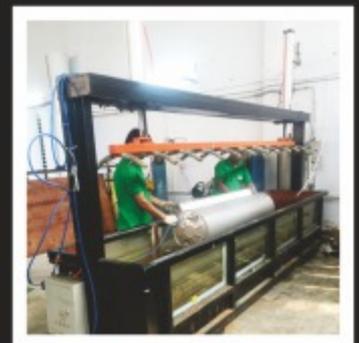
### ROBOTIC ARGON WELDING

We Use Robotic Arm Argon Welding For High Precision



### PUFF INSULATION

We Use High Density PUFF Insulation With Dow Chemical For Best In Clasthermal Insulation



### QUALITY CHECKS

MORE THAN 10 IN HOUSE PROCESS FOR QUALITY CHECKS TO MAINTAIN HIGH STANDARDS



# ETC SOLAR WATER HEATER



Gurudwara Pathar Sahib   
Leh Ladakh

The Evacuated Tube Collector System facilitates high-efficiency absorption and utilisation of solar energy with minimum heat loss. The evacuated tubes are the absorber component in the solar water heater function.

SYSTEM CAPACITY	100	150	200	250	300	500(l)	500(35/500)	500(M)
ETC TUBE	10 58*1800	15 58*1800	20 58*1800	25 58*1800	30 58*1800	50 58*1800	35 58*2100	35 58*1800
FLOOR AREA (FEET)	4 X 6	5 X 6	6 X 6	7 X 6	8 X 6	13 X 6	10 X 7	13 X 8

## STELLAR PRIME

- SS 304-2B (Food Grade) inner tank.
- Long lasting seam welding technology for linear and circular joints.
- Automatic robotic arm argon welding for nipple and sockets.
- High density PUF insulation.
- Use of sacrificial anode to prevent corrosion of steel.
- Best suited for soft water regions.

- Latest non welded technology for circular joints.
- System designed to eliminate pressure of overhead tank.
- Use of assistant tank increases the life of system
- Push insert type connections.
- High density PUF Insulation.
- Best suited for hard water regions.

## STELLAR MAGIC

## STELLAR SHIELD

- Galvanized iron inner tank with marine grade epoxy coating.
- Best in class airless technology used for tank lining.
- MIG welding for linear and circular joints.
- Dual protection of zinc coating and epoxy coating
- Sturdy frame design.
- Best suited for extreme hard water regions.

- System capacity starting from 500 LPD upto thousand of litres per day.
- Manifold type collector ensures minimum installation space.
- Elliptical dish end tanks to minimize damage due to pressure.
- Options of SS 304, SS 316 and GI/MS for tank material.
- Provision of man hole for ease of maintenance.
- System design as per end user's requirement.
- Experience of lakhs of litres of installations.

## INDUSTRIAL/ COMMERCIAL

## FEATURES



IT'S A ZERO WASTE,  
ZERO-EMISSION SOLUTION



HIGH EFFICIENCY ON  
HIGH TEMPERATURE

EFFICIENCY



RUST-PROOF BODY MAKES  
LONG OPERATING LIFE



HARD WATER DOES NOT  
AFFECT THE SYSTEM



HIGH ENERGY ABSORPTION  
VACUUM TUBES KEEP WATER  
WARM FOR LONGER TIME



COMES WITH 5 & 7 YEARS  
WARRANTY VARYING TO  
THE SPECIFICATIONS

## INSTALLATIONS



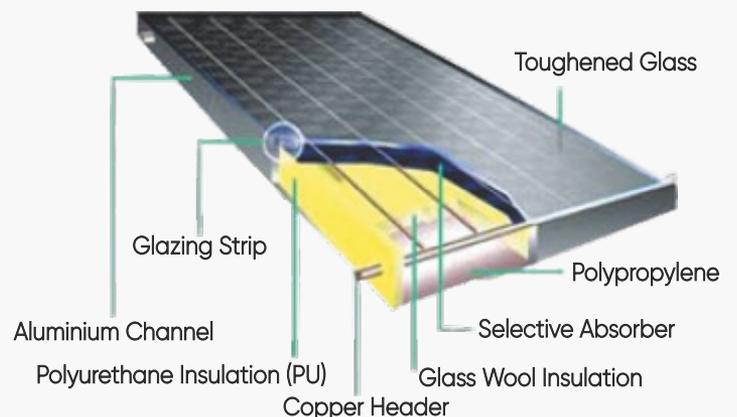
# FPC SOLAR WATER HEATERS



Flat plate collector(FPC) is a metal box with a glass cover (called glazing) on top and a dark colored absorber plate at the middle. The sides and bottom of the collector are usually insulated to minimize the heat loss. Sunlight passes through the glazing and strikes the absorber plate, which is made of copper plate, which heats up, changing solar energy into heat energy ensuring high efficiency and durability. The heat is transferred to liquid passing through pipes attached to the absorber plate.

## FEATURES

- Ultrasonic welded fins and tubes for optimum heat transfer
- Toughened glass with high heat transmission efficiency
- Ultra Conductive Collectors
- High Density Insulation
- High selective absorber sheet
- Superior Durability
- High Quality Components
- Efficient heating performance



## Collector Specifications

Collector Size	2.17 sq. mtr.
Absorber Area	2.01 sq. mtr.
No. of Riser tubes per collector	9 per collector
Grommet (Sealing gasket)	EPDM Rubber
Insulation	Polyurethane/Rockwool
Absorber Plate	Copper Aluminium
Glazing Cover	Toughened clear glass 4 mm thick
Absorber riser bonding	Ultrasonic/Laser welding

## System Specifications

System Type	Non Pressurized or Pressurized
Tank Material	SS 304/ SS 316/ SS 904 (Duplex)/ Glass Enamelled
Insulation	High density PUF / Rockwool
Outer Tank Cladding	PPGI / Aluminium
Domestic System Size	100, 200, 300, 400 & 500 Ltrs.
Commercial System Size	1000 Ltrs and above-customised
Working Pressure	6 Bar for pressurized system
Heat Exchanger	Cage type/coil type/plate type -optional
Electrical Backup Heater	Optional
Circulation	Thermosyphon/Forced Circulation
Tank Protection	Magnesium -Sacrificial anode

## INSTALLATIONS



VIETNAM EMBASSY



MOHALI



BHIWARI



AMBALA



CHANDIGARH



DELHI



SASARAM



BADDI



## HYBRID HOT WATER SOLUTION

SOLAR WATER HEATER + HEAT PUMP WATER HEATER



Hybrid Heat Pump Water Heaters are designed and manufactured by Sun Stellar which are a combination of Heat Pumps and Solar Thermal Collectors integrated with an Insulated Hot Water Tank. Hybrid Hot water systems are not dependant on Weather conditions or Sun radiations. Thus provide 24 hours Hot water – 365 days with 100% reliability. These Systems provide maximum energy savings in comparison to all other sources of water Heating.

The Solar Thermal Collectors absorb maximum energy from the Sun and convert this energy into heat during sunny days, whereas Heat Pump sare turned on during non-sunny days or on which the hot water requirement is higher, thus making this system non dependant on climate conditions.

A Hybrid System uses Heat Pump Technology to heat water with COP as high as 5.5. These Systems are totally customized for Residences, Hotels, Hospitals, Hostels and any other application where hot water is required.



## FEATURES



### MAXIMUM POWER SAVINGS

Combination of Solar Water Heaters and Heat Pumps provide maximum power savings.



### NOT DEPENDENT ON CLIMATE

These Systems are not dependent on climate conditions, thus gives required hot water throughout the year.



### HIGHEST COP OF UPTO 5.5

Hybrid Systems are designed to achieve COP of over 5.5



### 24 HOURS HOT WATER

Hybrid Systems use dual heating methods, which is effective in sunlight and non sunny time which can provide 24 hours hot water without mixing losses.



### HIGHER SAFETY LEVELS

These have a high level of Safety in comparison to Electric Boilers, Diesel or Gas Boilers.



### SMART DIGITAL CONTROLLER

These are equipped with Smart Digital Controller to control water temperature, electricity consumption, time etc.

## INSTALLATIONS



# sun Stellar

Rising with the sun...

 SF-28, 30 Cross River Mall, Delhi 110032

 Khasra # 12/21-22, Village Jalalpur 1,  
Tehsil Bapoli, Panipat 132104. Haryana

 +91 9143 917 917

 [info@mehargroup.in](mailto:info@mehargroup.in)

 [www.sunstellar.in](http://www.sunstellar.in)

