

# Solar is cheaper and better than electric geysers for heating water

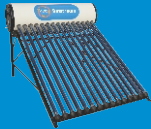


## Benefits:


- ✓ Significantly reduces your monthly electricity bill
- ✓ Durable inner tanks to handle hard water
- ✓ Superior PUF insulation keeps water hot
- ✓ Designed for excellent look and finish
- ✓ Optional electric back-up for cloudy days
- ✓ Three free preventive maintenance visits in first year



\* Assumes bright sunny days.

<b>Sunstream</b>	
<b>To heat 100 litres to 65°C per day</b>	
Sunstream Cost	Rs. 9.3*
Electricity cost	Rs. 0
<b>Total cost per day</b>	<b>Rs. 9.3*</b>

\* Assumes price Rs. 15,318 over 5 years and 330 sunny days per year

<b>Geyzer</b>	
<b>To heat 100 litres to 65°C per day</b>	
Geyzer cost	Rs. 3.50 *
Electricity cost	Rs. 18 **
<b>Total cost per day</b>	<b>Rs. 21.50</b>

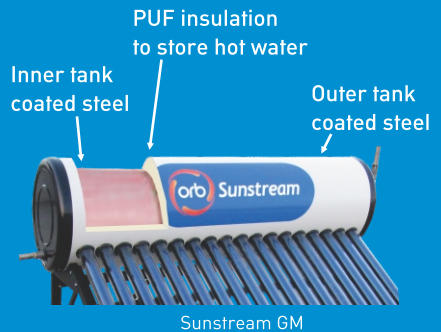
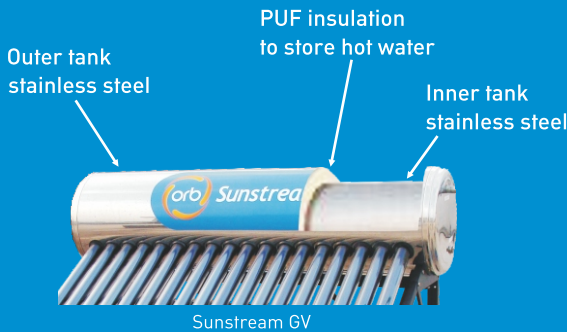
\* Estimate only. Assumes price Rs. 6500 over 5 years

\*\* Estimate only. Assumes 4kWh per day, Rs. 4.5 per kWh

Models	Inner Tank Material	Outer Tank Material	Water Hardness	Water Capacity
Sunstream GV	Stainless Steel / 0.8 mm	Stainless Steel	Less than 200 PPM	100LPD, 150LPD, 200LPD, 250LPD
Sunstream GM	Coated Steel / 1.6 mm	Coated Steel	Less than 1000 PPM*	100LPD, 150LPD, 200LPD, 250LPD, 500LPD

\* If the system uses a spun polypropylene filter, then the maximum water hardness increases to 1500 PPM.

Specifications are subject to change without notice.



For more information, please contact



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# Sunstream



## Because Your Home Deserves the Best Solar Water Heater

**Flexi-coupling**  
To avoid strain on the tank



Durable tanks with high density injected PUF

High efficiency flat plate collector

### Benefits:

- ✓ Significantly reduces your monthly electricity bill
- ✓ Inner tank made of stainless steel
- ✓ Built-in sacrificial anode to help protect tank against corrosion
- ✓ Pressurized systems for a better shower
- ✓ Superior PUF insulation keeps water hot
- ✓ Optional electric back-up for cloudy days
- ✓ Three free preventive maintenance visits in first year




Y O U ' V E G O T T H E P O W E R



# Sunstream



**Invest once  
get free  
hot water  
for years**

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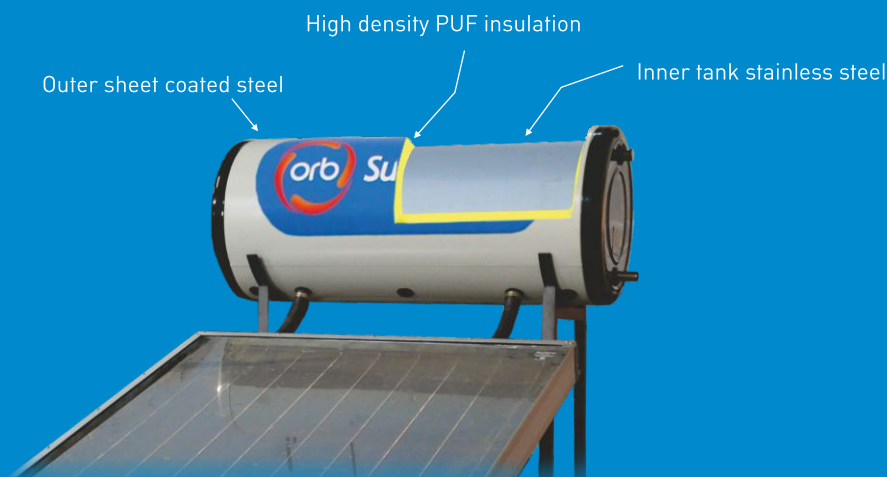
\*\* Estimate only. Assumes 4kWh per day, Rs. 4.5 per kWh

System	Sunstream 100C	Sunstream 200C	Sunstream 200CPR	Sunstream 300CPR
Litres per day	100	200	200	300
Shadow free floor area required	2.5mtrs x 1.2mtrs	2.5mtrs x 2.4mtrs	2.5mtrs x 2.4mtrs	2.5mtrs x 3.6mtrs
Number of collectors	1	2	2	3
Tank operating pressure (max)	1 kgf/cm <sup>2</sup> (atmospheric) pressure		3.5 kgf/cm <sup>2</sup> pressure	
Water hardness - maximum	400 PPM			
Collector type	Copper tube with fins, coated with selective-black chrome			
Collector frame	Aluminum with anodised finish / pure polyester powder coating			
Glass	4 mm toughened, low iron, high transmission of energy > 85%			
Inner tank material and type	Stainless steel 304			
Thermal insulation material	PUF, 50mm thickness			

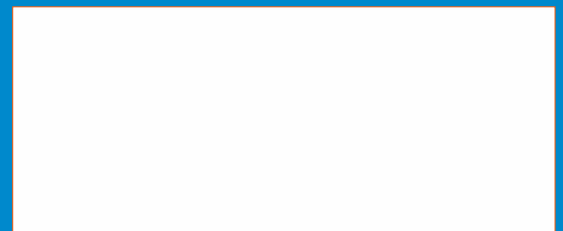
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**Sunstream roof-top system**



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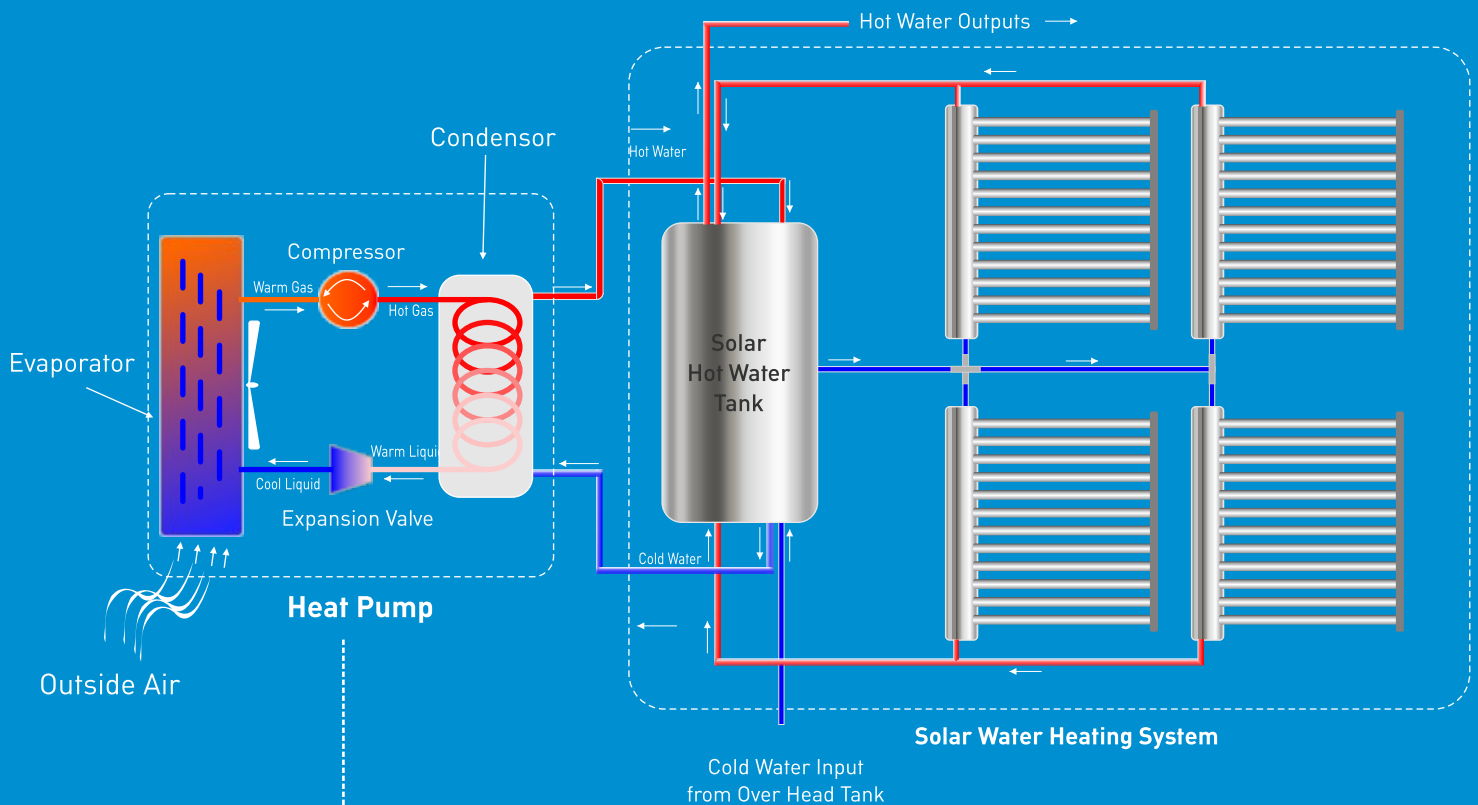


**Call us toll free 1 800 3010 1650 Email: sales@orbenergy.com Web: www.orbenergy.com**

Orb Energy, No.12, Sriganthadakavalu, Sunkadakatte, Magadi Road, Bangalore 560091, India



# Heat Pumps and Solar Energy For 24/7 Hot Water at Lowest Cost



## Features and Benefits :

Heats water day and night, in all seasons

Consumes just 1/4<sup>th</sup> power of an electric geyser

No mess or fumes of diesel fuel or fire wood

Easy to use and maintain

Price includes delivery and installation

3 free preventative maintenance visits during 1<sup>st</sup> year

Y O U ' V E G O T T H E P O W E R



## Payback

Estimated Price *	Rs.1 Lakh
Power savings per day	14.50 units
Savings per day (Rs.7 / Unit)	Rs. 101.5
Savings per year	Rs. 37,047
<b>Payback in years</b>	<b>&lt; 3 years</b>

\* Price of 3.8kW system. Prices subject to change without notice.



Sunstream 4000GM - Centralized System Integrated with Heat Pump

Heat Pump

Also works as stand alone heating system without solar

Specifications *	Input Power	Output Power	Maximum Temperature	Compressor Make
Heat Pump - 100 ltrs per hour	0.98 kW	3.80 kW	60° C	Panasonic / Toshiba / Rotary
Heat Pump - 150 ltrs per hour	1.44 kW	5.60 kW	60° C	Panasonic / Toshiba / Rotary
Heat Pump - 250 ltrs per hour	2.45 kW	9.50 kW	60° C	Panasonic / Toshiba / Rotary
Heat Pump - 350 ltrs per hour	3.50 kW	13.50 kW	60° C	Panasonic / Sanyo
Heat Pump - 500 ltrs per hour	4.90 kW	19.50 kW	60° C	Panasonic / Sanyo
Heat Pump - 1000 ltrs per hour	9.50 kW	40 kW	60° C	Panasonic / Sanyo

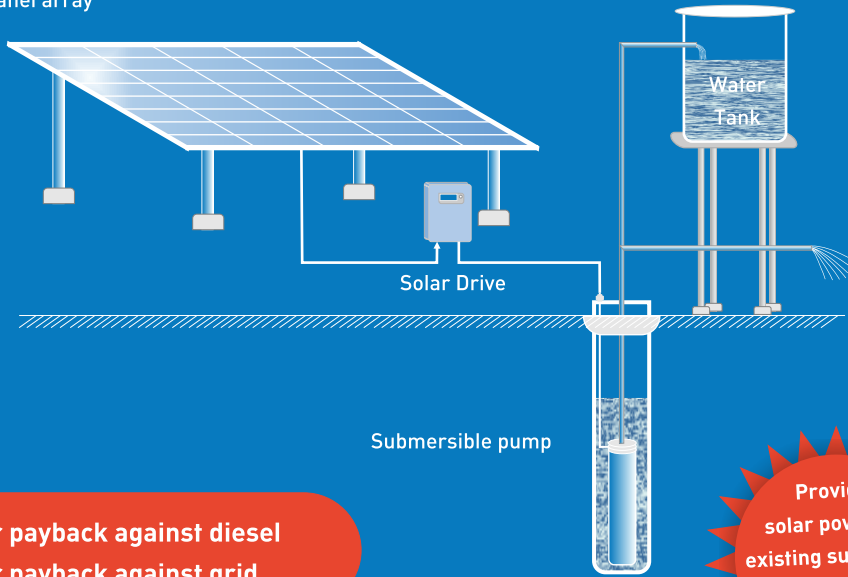
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## Solar water pumping for reliable water supply at lower costs

Solar panel array



3 year payback against diesel  
7 year payback against grid

Provide solar power to existing surface or submersible pump

### Features and Benefits

Reliable water supply when you need it

No on-going costs of diesel and electricity

Solar panels designed for 25 years life time

Free preventative maintenance in first year

Price includes delivery and installation



Specifications *	Solectric 1HP	Solectric 2HP	Solectric 3HP	Solectric 5HP	Solectric 7.5HP
PV Module	1080 (60Wp x 18)	2160 (60Wp x 36)	2880 (180Wp x 18)	4750 (250Wp x 19)	6000 (200Wp x 30)
Area for PV module	10.8 Sq.mtrs	21.6 Sq.mtrs	28.8 Sq.mtrs	47.5 Sq.mtrs	60 Sq.mtrs
Solar Drive	1HP Single Phase	2HP Single Phase	3HP Single Phase	5HP Three Phase	7.5HP Three Phase
Pump Rating (VA)	750	1500	2200	3700	5500
Head Range (Meter)	34 - 89	66 - 171	107 - 274	63 - 117	97 - 180
Discharge Range (Litres / Second)	0.8 - 0.2	0.8 - 0.2	0.8 - 0.2	2.8 - 0.7	2.8 - 0.7
Irradiance Assumption	5.5kWh / sq.mtrs / day at 25 degree C, AM 1.5 Sun Spectrum				

\* Specifications are subject to change without notice

## Agricultural Applications



Sprinklers



Drip Irrigation



Farming

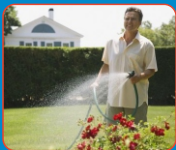


Dairy

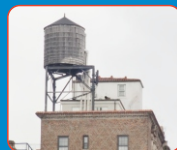


Poultry

## Household Applications



Gardening



Overhead Tank

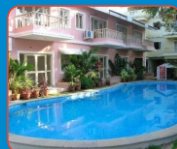


Borewell

## Apartment Applications



Water Pumping



Swimming Pool

For more information, please contact



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