



Payback Period < 3 years



Cost Benefit Analysis of Solar Hot Water Systems Vs Other Hot Water Systems

Heating 100 ltr. of water with 25°C rise in Temp. using conventional energy

	UoM	LPG	Electricity
Required Heat*	Kcal	3001	2626
Required Fuel Qty.	kg	0.3	3 units
Efficiency	%	80	95
Fuel Rate	INR	55	8
Cost per day *	INR	17	24
Monthly Cost	INR	510	720
Annual Cost *	INR	5100	7200

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Reference Test Conditions:

- * Ambient temperature 20°C. 100 Lt/day capacity water heating with temperature rise of 25°C.
- * It is assumed that 3 units of electricity is saved per day and unit price is 8 Rs.
- * It is assumed that system is used for 300 days per year.

Technical Specifications

Capacity (LPD)	100	150	200	250	300	500 Manifold	500 Compact
Type	ETC						
Working	Thermosyphon						
Inner tank thickness (mm)	0.6	0.6	0.6	0.6	0.6	1.0	1.0
Inner Tank Material	SS 304	SS 304	SS 304	SS 304	SS 304	SS 304	SS 304
Outer Tank Material	GI	GI	GI	GI	GI	GI	GI
Insulating Material	PUF	PUF	PUF	PUF	PUF	PUF	PUF
Insulating Thickness (mm)	75	75	75	75	75	75	75
Insulating Density (kg/m ³)	38	38	38	38	38	38	38
Evacuated Tubes size (mm)	58 x 1800	58 x 1800	58 x 1800	58 x 1800	58 x 1800	58 x 1800	58 x 2100
Evacuated Tubes coating	SS-CU-ALN	SS-CU-ALN	SS-CU-ALN	SS-CU-ALN	SS-CU-ALN	SS-CU-ALN	SS-CU-ALN
Hot Water Temperature (°C)	55 - 60	55 - 60	55 - 60	55 - 60	55 - 60	55 - 60	55 - 60
Working Pressure (kg/cm ²)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Evacuated Tubes Qty.	10	15	20	25	30	50	34
Absorber Area (sqm.)	1.6	2.4	3.2	4.0	4.8	8.0	7.2
System Weight	41	55	73	79	87	157	136
Space Required (sqft.)	6.5 x 4	6.5 x 5.5	6.5 x 7	6.5 x 8	6.5 x 9	11 x 12.5	7.5 x 11
Warranty (years)*	5	5	5	5	5	5	5

Accessories:

End Cap



Silicon Seal Ring



Dust Cover



Waasol Energies LLP is the largest vertically Integrated Company engaged in Solar Business in India with diversified business interest with in over 65+ nations across the globe. It is fact that 44 % energy is consumed in Thermal Applications Globally and if we replace 10 % of the thermal energy with Solar Thermal, there will be enormous savings in High Recurring Energy Bills & Consumption of Fossil Fuels while great savings on Carbon Foot Prints as well. We strongly believe that the Customized application development is essential for the promotion of Solar Thermal and hence we have always emphasized on development in house Research Team. Solar thermal has been key Business Vertical which helps to save recurring energy expense with attractive IRR. Waasol Energies LLP possess Passionate team of Techno commercial professions who provides Solutions for Hot Water, Process Heat and Its applications.

Contact:

WAASOL Energies LLP

40, Vibrant Business Park, Opp. UPL,
GIDC, vapi – 396191, Gujarat, India

Ph.: + 951021474/71

Email: crm@waasol.com

* Terms and Conditions as per warranty cards