

# CHOOSE THE BEST !



**HOTmax**

## SOLAR WATER HEATERS FROM TATA BP SOLAR

### HOTMAX SOLAR WATER HEATER

Available in 100 and 200 LPD (liters per day)

Compact and lightweight Solar Water Heaters. Easy to install, operate and maintain

#### Evacuated tube technology

- Works efficiently with hard water with hardness up to 600 ppm
- Works even when overhead tank height is 1.3 m from roof

#### High performance glass tubes

- High quality tubes made from borosilicate glass
- Inner coating of tubes consists of copper, stainless steel and aluminum nitride layers (see diagram below)
- Withstands high impact from hail storms
- No clogging or choking
- Heats water to a very high temperature
- Availability of hot water even on partially cloudy days

#### PUF insulation

- Ensures that the heat generated by the water heater is retained for long hours

#### Zincalume Advantage

- SS304 tank with Zincalume Outer Cladding
- Protection against wear and tear
- Long life of tank
- Enhances performance in coastal climatic conditions

#### Aluminum support structure

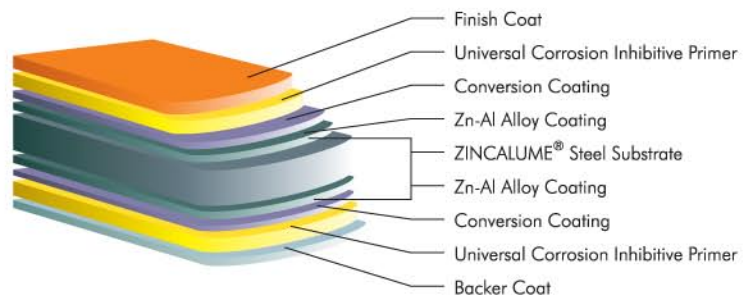
- Strong and light weight
- Corrosion-free



Three-Layer Evacuated Tube

1. Metal Insulation Layer (Copper)  
Reduces heat loss and lowers emission rate
2. Absorption Layer (Stainless Steel & Al-N-Al Enamelled Mirror)  
Anti-corrosion & Anti-oxidation
3. Anti-reflection Layer (Al-N-Al)  
Ensures high absorption rate and low emission rate by reducing reflection

#### ZINCALUME (COLORBOND®) Outer Cladding



Cross Sectional View of COLORBOND® Steel

# HOTMAX SOLAR WATER HEATER 500 LPD

## Horizontal Manifold

Saves space. Can be comfortably accommodated even in space-constrained areas

## PUF Insulated, Seam-Welded Manifold

Prevents heat-loss. Ensures water remains hot for a long time

## Internal Piping for Manifold made of SS 304 Steel

- Ensures the system is corrosion-free
- Enhances the life of the system

## GI Pre-coated Sheet for Cladding

- Increases corrosion-resistance
- Improves life of the system

## Powder-coated Support Structure

- Better aesthetics
- Increases corrosion resistance, improves durability



500 LPD

Other benefits of Evacuated Tube Technology as described for Hot Max 100 & 200 LPD are applicable to Hot Max 500 LPD too.

	100 LPD	200 LPD	500 LPD
No of Tubes (As per MNRE Specifications)	15	30	Max. 76
Circulation type		Thermosyphon	
Hot water temperature		60°C*	
Overnight temp. drop	Less than 5°C		Less than 4°C
Inner Tank		Stainless Steel SS 304 2B Grade	
Tank Welding	Automated TIG Welding for consistent welding and superior leak proof joints		
Outer Cladding	Zinc Alum Steel		Pre-Coated galvanized steel
Insulation	High density 50 mm thick CFC Free PUF insulation of uniform density (35-42kg/m <sup>3</sup> )		High density 40 mm thick CFC Free PUF insulation of uniform density (35-42kg/m <sup>3</sup> )
Evacuated tubes	Double-walled hard borosilicate glass tube with 1.6 mm thickness • Special three layer selective coating consists of Stainless Steel, Copper and Aluminum • Absorptivity > 92% Emittance < 7%		
Hardness of water	Up to 600 ppm • Total Chlorine and Florine contents should not exceed 100 ppm		
Manifold Pipe	NA		SS 304, 2B Grade with automated TIG Welding
Manifold Insulation	NA		High Density 30 mm thick CFC-Free PUF insulation
Manifold Cladding	NA		Stainless steel
Support Structure	Aluminum section steel for long life and easy assembly		Tubular section steel with Pure Polyester powder-coated for long life and easy assembly
Anode Protection	Magnesium / Aluminum alloy		
Certifications	MNRE Approved		
System height from the roof-top	30° stand - 1.3 m 42° stand - 1.6 m		2.5 m
Min. height of overhead tank from roof-top	2 m		3 m
Min. roof area required for installation	1.5 m x 2 m shadow-free area	3 m x 2 m shadow-free area	3.5 m x 3.5 m shadow-free area



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Your nearest Tata BP Solar Dealer :

Toll Free Customer Service Helpline 1800 425 7860 [www.tatabpsolar.com](http://www.tatabpsolar.com)

Due to continuous developments and product improvement, the Company reserves the right to change/alter the specifications.

\* At sunshine of 5kWh/m<sup>2</sup> and ambient temperature of 25°C  
IMPORTANT - Please ensure grouding of the system to the terrace for safety reasons

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