

500 Liter Solar Water Heater – Technical Datasheet (ETC Type)

Brand: G-Axis Solar Oman

Model: SWH-ETC-500L

General Description:

The 500L Solar Water Heater is a high-capacity evacuated tube heating system designed for commercial and multi-family applications. Built for Oman's climate with high efficiency and long lifespan.

Technical Specifications:

Tank Specifications:

- Capacity: 500 Liters
- Tank Type: Pressurized / Non-Pressurized
- Inner Tank: Stainless Steel 304/316
- Outer Tank: Color-coated steel / Stainless steel
- Insulation: PUF 50–60 mm
- Max Temperature: 85–95°C
- Heat Loss: <4–6°C per 12 hours

Evacuated Tube Collector:

- Triple-layer borosilicate vacuum tubes
- Tube diameter: 47 mm or 58 mm
- Length: 1800–2100 mm
- Number of tubes: 50–60
- Solar absorption $\geq 93\%$

Stand / Frame:

- Material: Galvanized steel
- Wind resistance: 120–150 km/h
- Installation angle: 25°–45°

Connections & Installation:

- Inlet/Outlet size: 1/2" or 3/4"
- Safety valve included
- Optional electric heater: 2–3 kW

Key Features:

- Large 500L capacity
- High-efficiency evacuated tubes
- Zero electricity cost
- Low maintenance
- Suitable for villas, hotels, camps, schools

Warranty:

- Tank: 3–5 years
- Tubes: 1 year
- Stand: 1 year