



# SOLAR WATER HEATER PARTS

# PRODUCT CATALOGUE



# **GEYSERWISE CIRCULATION PUMP 12V**

## **Features**

**Introducing the Geyserswise Circulation Pump 12V by The Water Solar Company, designed for split solar geyser systems. It ensures a constant flow of hot water, saves time and energy, and expedites the heating process for instant hot water.**



**Aluminium outer body**

**12V Power**

**PPS impeller**

**Brass front**

**Ceramic femite magnet**

**PPS inner chamber**

**Electronics in separate casing**

**“O” ring**

**Hot Water Circulation Pump**

# GEYSERWISE CIRCULATION PUMP 220V

## Features

Efficiency and reliability come together in the Geyserswise Circulation Pump, providing a range of strong features crafted to enhance the operation of split solar geyser systems.



## Technical Specifications

- **Voltage:** Operating at 230V with a tolerance of +/- 10%, the Geyserswise Circulation Pump ensures compatibility with standard electrical systems.
- **Mains Frequency:** The pump operates at a frequency of 50Hz, aligning with standard power grid frequencies.
- **Motor Speed:** With a motor speed of 2200 revolutions per minute (r/min), this pump delivers efficient water circulation within the solar geyser system.
- **Protection Category IP:** Featuring an IP42 protection category, the pump is designed to resist dust and water ingress, ensuring durability and longevity in various environmental conditions.
- **Flow Rate:** The pump boasts an impressive flow rate of 40 liters per minute, contributing to swift and effective water circulation.
- **Ambient Temperature:** Designed to withstand ambient temperatures up to 40 degrees Celsius, the Geyserswise Circulation Pump remains reliable in diverse climate conditions.
- **Operating Temperature Range:** With an operating temperature range spanning from -10 to 110 degrees Celsius, this pump proves versatile and resilient, adapting to a wide range of system conditions.
- **Maximum Operating Pressure:** Capable of handling pressures up to 10 Bar, the pump ensures optimal performance even in systems with varying pressure demands.

These technical specifications underscore the Geyserswise Circulation Pump's commitment to precision engineering and reliability, making it a dependable choice for enhancing the water circulation dynamics within split solar geyser systems. Choose the Geyserswise Circulation Pump for an integration of efficiency, durability, and advanced technology in your solar water heating setup

# GEYSERWISE MAX CONTROLLER



The Geyserswise Max by The Water Solar Company is an advanced control system for 12V and 220V pumped solar water geyser systems. It acts as a geyser timer and on a thermosyphon solar system, providing features that improve functionality, convenience, and safety.

## Features

### Dual Voltage

#### Compatibility:

Suitable for use in both 12V and 220V pumped solar water geyser systems, providing flexibility and compatibility.

### Comprehensive Display:

The clear and intuitive display offers real-time information on water temperature, time, day, heating mode, and any malfunction conditions, ensuring easy monitoring of your solar water heating system.

### Heating Modes:

Choose between auto or manual heating modes, allowing users to customize their system's operation based on preferences and needs.

### Temperature Settings:

Easily set the desired water temperature within the range of 30 – 75°C, with four different temperature settings available. The factory default is set at 55°C.

### Programmable Timer:

A daily programmable timer with four-time settings enhances control over the system, optimizing energy usage based on your daily routine.

### Error Conditions Alert:

The system alerts users to error conditions through warning codes (E1 to E9), facilitating quick identification and resolution of issues.

### Differential Controller:

This device can be used as a timer and a differential control on both 12V and 220V pumped solar systems, enhancing control and efficiency.

### Electronic Thermostat with Thermal Cut-Out:

The Geyserswise Max incorporates an electronic thermostat with a mechanical thermal cut-out at 90°C, providing an additional layer of safety. Note: Adjust cut-out temperature for systems expecting temperatures above this threshold.

## Technical Specifications

- Operating Voltage: 230VAC / 50HZ.
- Main Relay Contact Rating: 30AMP (Max 4KW).
- Secondary Relays: Pump and solenoid 5Amp.
- Operating Voltage Range: 220V – 250V AC.
- Earth Leakage Protection: 25MA action time = 0.1 second.
- Temperature Display Range: 0 – 99°C (“-5” when below -5°C, “EA” when above 99°C).
- High Temperature Warning: Above 84°C.
- Temperature Setting Ranges: 30 – 75°C (for electric water heating).
- Temperature Tolerance: ± 2%.
- Temperature Differential Setting: 1°C.
- Switching Differential: 6°C.
- Collector Antifreeze Protection: At 0°C – 10°C, default is 5°C.

# GEYSERWISE TSE CONTROLLER



The Geyserville TSE, brought to you by The Water Solar Company, is a versatile and efficient control system designed for use in both Close Coupled Solar Geyser Systems and Standard Geyser Systems. Offering a range of features, this device serves as a reliable geyser timer and a timer on a thermosyphon solar system, providing enhanced control and monitoring capabilities

## Features

### Dual System

#### Compatibility:

Ideal for use in Close Coupled Solar Geyser Systems and Standard Geyser Systems, offering flexibility in application.

### Heating Modes:

Choose between auto or manual heating modes, allowing users to customize the operation based on preferences and requirements.

### Clear Display:

The intuitive display provides real-time information on water temperature, time, day, heating mode, and any malfunction conditions, ensuring easy monitoring and control of your solar water heating system

### Temperature Settings:

Easily set the desired water temperature within the range of 30 – 75°C, with four different temperature settings available. The factory default is set at 55°C



### Programmable Timer:

A daily programmable timer with four time settings enhances control over the system, optimizing energy usage based on your daily routine.

### Error Conditions Alert:

The system alerts users to error conditions through warning codes (E2 to E5 and E7), facilitating quick identification and resolution of issues.

### Electronic Thermostat with Thermal Cut-Out:

The Geyserswise TSE incorporates an electronic thermostat with a mechanical thermal cut-out at 90°C, providing an additional layer of safety. Note: Adjust cut-out temperature for systems expecting temperatures above this threshold.

## Technical Specifications

- Operating Voltage: 230VAC / 50HZ.
- Main Relay Contact Rating: 30AMP (Max 4KW).
- Operating Voltage Range: 220V – 250V AC.
- Temperature Display Range: 0 – 99°C (“-5” when below -5°C, “EA” when above 99°C).
- High Temperature Warning: Above 84°C.
- Temperature Setting Ranges: 30 – 75°C (for electric water heating).
- Heat Failure Detection: Activates when the increase is at a rate of less than 4°C per hour.
- Mechanical Thermal Cut-Out: At 90°C. Adjust for systems expecting temperatures above this threshold.
- Dry Heat Detection: Alerts for an empty cylinder.
- Temperature Tolerance: ± 2%.
- Temperature Differential Setting: 1°C.
- Switching Differential: 6°C.
- Temperature Probe Failure Detection: For the tank.
- Temperature Probe Range: -30 to + 130°C.

# Solar Air Release Valve



Elevate the efficiency of your solar geyser system with the Solar Air Release Valves, an innovation proudly presented by The Water Solar Company. These specially designed valves are your solution to eliminating concerns about trapped air in your plumbing system or unwanted air infiltration into the hot water circulation pump in a split solar geyser setup.

## Features

### Efficient Air Release:

Engineered for optimal performance, our Solar Air Release Valves effortlessly release any accumulated air within the plumbing system. This ensures smooth operation and uninterrupted water flow, preventing air-related disruptions in the performance of your solar geyser system.

### Advanced Design:

These valves feature an advanced design that effectively safeguards against air interference, providing a seamless experience with your solar geyser system. Bid farewell to worries about air-related issues impacting the performance of your solar water heating setup.

### Durable and Reliable:

Crafted with durability and reliability as top priorities, our air release valves utilize superior quality materials. This commitment to quality ensures long-lasting functionality, offering years of trouble-free operation. Trust in these valves to consistently deliver peak performance, providing peace of mind for an extended period.



**High-Quality Construction:** Specifically designed for solar water heating systems, these air release valves boast high quality for optimal performance.

**Maximum Working Temperature:** With a maximum working temperature of 180°C, these valves are well-suited for the demands of solar water heating applications.

**Maximum Pressure Rating:** Capable of handling pressures up to 10 bar, ensuring resilience and reliability in various system conditions.

**15mm Connection Port:** Featuring a 15mm connection port, the valves are designed for compatibility and easy integration into your solar geyser setup.

**Long Life Maintenance-Free Design:** Built to last, these valves embrace a maintenance-free design, offering prolonged functionality without the need for frequent interventions.

**Limited 1-Year Warranty:** Backed by a limited 1-year warranty, providing assurance of product quality and performance.

**Upgrade your solar geyser system today with The Water Solar Company's Solar Air Release Valves, where efficiency meets reliability, delivering a trouble-free and enhanced solar water heating experience.**

# Solar Expansion Tanks 2L



The Solar Expansion Tanks by The Water Solar Company stand as a premium solution, meticulously engineered to address the crucial need for expansion and contraction control in thermal transfer fluids within solar water heater systems. Designed for use on the solar liquid loop of any indirect thermal transfer system, these expansion tanks play a pivotal role in maintaining safe and efficient operating pressures within the solar geyser system.

## Features

- 1. High-Quality Solution:** Our Solar Expansion Tanks represent a high-quality solution suitable for solar, heating, and chilled water applications. Crafted with precision and durability in mind, these expansion tanks ensure reliable performance in diverse settings.
- 2. Maximum Working Temperature:** With a maximum working temperature of 70°C, these expansion tanks are engineered to withstand the demanding conditions of solar water heating systems, providing a robust solution for elevated temperature applications.
- 3. Maximum Pressure Rating:** The expansion tanks boast a maximum pressure rating of 10 bar, demonstrating resilience and reliability in managing pressure fluctuations within the solar geyser system.
- 4. ¾ Inch Connection Port:** Featuring a ¾ inch connection port, these expansion tanks provide compatibility and ease of integration into various solar water heater configurations.
- 5. Factory Pre-Pressurized with Nitrogen:** The tanks come factory pre-pressurized with Nitrogen, streamlining the installation process and ensuring optimal performance from the outset.
- 6. Limited 2-Year Warranty:** Backed by a limited 2-year warranty, The Water Solar Company stands behind the quality and durability of these expansion tanks, providing peace of mind for consumers.

# Thermostatic Mixing Valve



Thermostatic Mixing Valves (TMVs) from The Water Solar Company serve as crucial safety components in solar geyser systems, offering protection against scalding and ensuring a safe water temperature for various applications, including baths, showers, basins, bidets, and kitchen sinks.

## Features

- 1. High-Performance 3-Way Mixing:** Engineered for high performance with a 3-way mixing mechanism, minimizing pressure drop even at low pressures.
- 2. Easy Temperature Adjustment:** Convenient adjustment of the desired water temperature within the range of 38°C – 65°C, providing flexibility for user preferences.
- 3. 22mm Compression Fittings:** Designed with 22mm compression fittings, facilitating easy and straightforward installation for plumbing professionals.
- 4. Durable DZR Brass Body:** The valve features a robust DeZincification Resistant (DZR) brass body, ensuring durability and resistance to corrosion.

**5. Optional Non-Return Valve: The non-return valve is optional, allowing customization based on specific system requirements.**

**6. Maintenance-Free Design: Built with a long-life, maintenance-free design, ensuring reliable and hassle-free operation over an extended period.**

**7. High Pressure and Temperature Tolerance: Capable of handling pressures of up to 10Bar and water temperatures reaching 90°C, making it suitable for diverse applications.**

**8. Critical for Solar Water Heating Systems: Specifically designed for solar water heating systems, emphasizing its importance in maintaining safe water temperatures.**

**9. Limited 1-Year Warranty: Backed by a limited 1-year warranty, providing assurance of product reliability and performance.**

**Invest in the safety and efficiency of your solar geyser system with The Water Solar Company's Thermostatic Mixing Valves, where quality meets reliability.**



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