

# Solar water heater

## 200 L -separated system

Tank size :  $\varnothing 520 \times 1520 \text{mm}$



### SPECIFICATION OF THE TANK

|                            |                                         |
|----------------------------|-----------------------------------------|
| Dimension                  | $\varnothing 520 \times 1520 \text{mm}$ |
| Inner tank material        | SUS304                                  |
| Inner tank material        | 1.2mm                                   |
| Housing material           | Colored steel                           |
| Housing materiel thickness | 0.5mm                                   |
| Insulation material        | Polyurethane foam                       |
| Insulation thickness       | 50mm                                    |
| Max working pressure       | 6 bar                                   |
| Electric heating           | 1.5kw                                   |

## 2 pcs of flat collector

### SPECIFICATION OF FLAT COLLECTOR

|                      |                      |
|----------------------|----------------------|
| Dimension            | 2000*1000mm          |
| Max working pressure | 6 bar                |
| Cover                | 3.2mm tempered glass |
| Backplate            | 0.3mm colored steel  |
| Housing material     | Aluminium alloy      |
| Absorber             | Black chrome         |
| Absorption           | 0.97                 |
| Head pipe            | φ22 TP2 copper*2     |
| Riser pipe           | φ8 TP2 copper*7      |
| Insulation           | PET                  |
| Frame material       | color coated steel   |

Flat collector



Tank



# Main accessories



Temperature Controller

Regulatesthe temperature and flow of water. Ensuresthat the system operates efficiently by turning the pump on or off basedon the temperature of the solar collector and the water tank. Helps prevent overheating. Ensuresthat energy is used effectively.



Circulator

Responsiblefor moving the water or heat transfer fluid between the solar collector and the storage tank. Ensuresthat the heated water from the solar collector flows into the tank for storage, allowing the system to efficiently transfer heat and maintain optimal performance. Controlled by solar controller to operate.



Expansion Vessel

Manages the pressure changes that occur as the water heats up and expands. As the water warms, it increases in volume, and the expansion vessel absorbs this extra pressure to prevent damage to the system. Ensuresthat the system operates safely and efficiently.

# Other accessories

Collector connection



three way



Exhaust valve connection



Direct connector



Pipes



Pipe insulation



## System setup

### split pressurized solar system diagram

