

Solar Panels

SOLAR TANK WITH PUMP STATION AND CONTROL PANEL

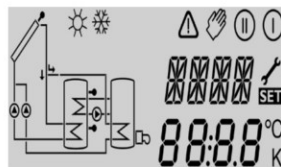
TECHNICAL SPECIFICATION

Model	SUN-100/120/150ST		SUN-200ST	SUN-300ST
Size(mm)	φ 461*1050/1250/1400		φ 521*1570	φ 608*1610
Pakage (mm)	550*540*1150/1350/1510		610*600*1660	690*680*1710
Electric heater	220V, 50Hz, 2Kw			
Gross weight(Kg)	58	65	74	83
Appearance color	White			
Max water pressure	1.0 Mpa(10 Bar)			
Water inlet/outlet(Inch)	3/4 inch			
Heat exchane area(m ²)	0.96 (Length 12m, φ 25mm)		1.21 (Length 15m, φ 25mm)	
Temperature sensor inlet	3/4 inch			

Control Panel



- System-monitoring-display
- Up to 4 Pt1000 temperature sensors
- semiconductor relay for pump speed control
- 3 basic system layouts to choose from
- Heat quantity measurement
- VBus®
- Function control
- Thermostat function (time-controlled)
- Extra-low power consumption
- User-friendly operation
- Housing with outstanding design



Technical data

Housing:	Plastic, PC-ABS and PMMA
Protection type:	IP 20 / EN 60529
Ambient temp.:	0 ... 40 °C [32 ... 104 °F]
Size:	172 × 110 × 47 mm 6.8" × 4.3" × 1.9"
Mounting:	Wall mounting, mounting into patch-panels is possible
Display:	System screen for system visualisation, 16-segment display, 7-segment display, 8 symbols for system status and operating control lamp
Operation:	By 3 push buttons at the front of the housing
Power supply:	100 ... 240 V~
Standby power consumption:	< 1 W
Switching capacities:	R1: 1 (1) A 100 ... 240 V~ (semiconductor relay) R2: 1 (1) A 100 ... 240 V~ (semiconductor relay)

Functions: Differential temperature controller with optional
add-on system functions. Function control, operating hours
counter for solar pump, tube collectorfunction, pump speed
control, thermostat function, drainback and booster option,
and heat quantity measurement.

Inputs: For 4 Pt1000 temperature sensors

Outputs: 2 semiconductor relays

Bus: VBus-



- **Solar station with integrated controller**
- **Integrated** DeltaSol® AX or DeltaSol
- **BS® controller**
- **Outstanding design**
- **Safety assembly with relief valve and pressure gauge**
- **Filling and flushing unit**
- **Wall mounting with screws and dowels**
- **Insulated casing**
- **Flowmeter**

Technical data

Material: fittings: brass
 flat sealings: Klingerit, max. 200°C
 O-ring-seal:
 VITON / EPDM, max. 180 °C
 Solar non-return valve:
 PPS, max. 180 °C
 Insulation: EPP, max. 120 °C continuous
 and up to 180 °C intermittent

Admissible max. temp.: 0 ... 120 °C, continuous and up to 180 °C
 Intermittent

Dimensions: with insulation: 500 x 230 x 62 mm
 distance axis / wall: 62 mm

Mounting: wall mounting

Connections: 3/4" IT]

Circulation pump: WILO Star ST20/6 or
 ST 20/7 (extra charge)

Power supply: 220 ... 240 V~

Operating pressure: max. 8 bar

Spring pressure of non-return valve: 200 mm head

Flowmeter: 0,5 ... 5 l/min., 1 ... 13 l/min
 (standard) or 8...30l/min

- Visualisation of collector and store temperature aswell as of heat quantity
- one 6-digit and two 4-digit 7-segment LED displays
- easy connection via RESOL VBus®
- anti-reflective window
- power supply via mains adapter
- automatic controller recognition



SMART DISPLAY (Optional)

Technical data

Housing:	High-grade steel frame with multiplex-wood elements
Dimensions:	530 x 630 x 100 mm
Protection type:	IP30 (suitable for dry interior locations)
Display:	numerical 7-segment LED display
Segment size:	45 x 26 mm, 10°- digit inclination
Ambient temperature:	0 ... 40 °C
Alimentation:	220 ... 240V~ (via mains adapter, included in delivery scope)
Power consumption:	max. 9 VA
Bus connection:	VBus®

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Om Sai Enterprises

H-6, Lajpat Nagar-II, New Delhi - 110024

Ph. No. 4650 4366/ 9810039105