VERSOL

VERSOSUN THERMOSIPHON SOLAR WATER HEATERS

VERSOSUN THERMAL SOLUTIONS

THERMOSIPHON SOLAR WATER HEATERS

New from Versol – Purchase your solar water heater from one of the worlds largest manufacturers. You simply cannot be charged for free solar hot water.

By combining the quality of a Versol storage tanks with the performance of the FPC solar collector system, Versol has now produced a roof-top thermosiphon solar water heater second to none and affordably priced for all Australian homes. This quality extends to the roof top mounting system constructed from Aluminium and stainless steel making the product ideal for coastal and non-frost applications.

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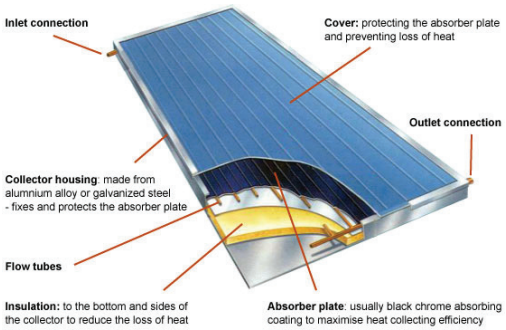


FEATURES AND BENEFITS

- Enamel Lined Steel or SUS316L Stainless Steel Tank and outer shell
- Designed specifically for harsh weather conditions
- Stainless steel or Aluminium or Galvanized Steel Mounting Frame
- High performance solar collectors with toughened glass to resist hail and other falling objects
- 7 Year tank and collector warranty (limited)

TECHNICAL DATA AND DIMENSIONS

Model	Volume	No of Panels	Panel Area	Total Panel Area	Elec. Back Up
VERSOSUN TS/FP-150	150 L	01	2.0 m2	2.0 m2	1.5 kW
VERSOSUN TS/FP-200	200 L	01	2.0 m2	2.0 m2	1.5 kW
VERSOSUN TS/FP-250	250 L	02	2.0 m2	4.0 m2	1.5/2.5/3.0 kW
VERSOSUN TS/FP-300	300 L	02	2.0 m2	4.0 m2	1.5/2.5/3.0 kW

STORAGE TANKS FOR SOLAR WATER HEATER

VERSOTHERM - STD/EL

Versol Production Line Creates Thermosiphonic Solar Heater Tanks Based On Market Trend And Need. Versol's Newly Designed Solar Storage Tanks Ensure More Many Saving In The Solar Water Heaters.versol Produce Multiple Range Of Storage Tanks To Serve Based On Customer Demands

TECHNICAL SPECIFICATIONS

Main Tank's Material	DC Sheet (*EN 10130/2006*)
Internal Anti-corrosion Protection	a) LIQUID enamel (*DIN 4753-3*), totally safe for public health (*DIN 51032 & EN 1388-2*) and b) magnesium anode (*EN 12438*)
Insulation	Hard polyurethane foam 48kg/m^3 (*DIN 53420*), self-extinguishing (*DIN 4102*)
Maximum Working Pressure for the Main Tank	6 bar (Higher pressure available on request)
Test pressure for the Main Tank	10 bar (*EN 12976-1, 4.1.6*)
Maximum Working Temperature of the Main Tank	95℃
Heating Element	Optional, upon request 1.5/2.5/3.0 kW
External Cover	Pre-painted galvanized steel sheet 0,5mm (*EN 10204/2.2*)

	STD/EL model	120 lt	150 lt	200 lt	250 lt	300 lt	500 lt
	Gross Capacity (lt)	116	144	199	242	295	502
A	Tank's Length (mm)	1058	1330	1640	1551	1815	1737
B	External Diameter (mm)	Ø 500	Ø 500	Ø 500	Ø 580	Ø 580	Ø 750
C	Main Tank's Diameter (mm)	Ø 400	Ø 400	Ø 480	Ø 480	Ø 480	Ø 640
	Jacket's Capacity (lt)	6	8	9	12	19	24
D	Flange Diameter (mm)	Ø 140	Ø 140	Ø 140	Ø 140	Ø 140	Ø 140
	Weight (kg)	48	60	70	82	102	132

* Dimensions can be amended as per versol R & D updates.

STORAGE TANKS FOR SOLAR WATER HEATER

VERSOTHERM - STD/SS

TECHNICAL SPECIFICATIONS

Main Tank's Material	Stainless Steel
Insulation	Hard polyurethane foam 48kg/m^3 (*DIN 53420*), self-extinguishing (*DIN 4102*)
Maximum Working Pressure for the Main Tank	10 bar
Test pressure for the Main Tank	6 bar (*EN 12976-1, 4.1.6*)
Test Pressure for the Jacket (*exchanger*)	10 bar (*EN 12976-1/2006, 4.1.6*)
Maximum Working Temperature of the Main Tank	95℃
Heating Element	Optional, upon request 1.5/2.5/3.0 kW
External Cover	Pre-painted galvanized steel sheet 0,5mm (*EN 10204/2.2*)

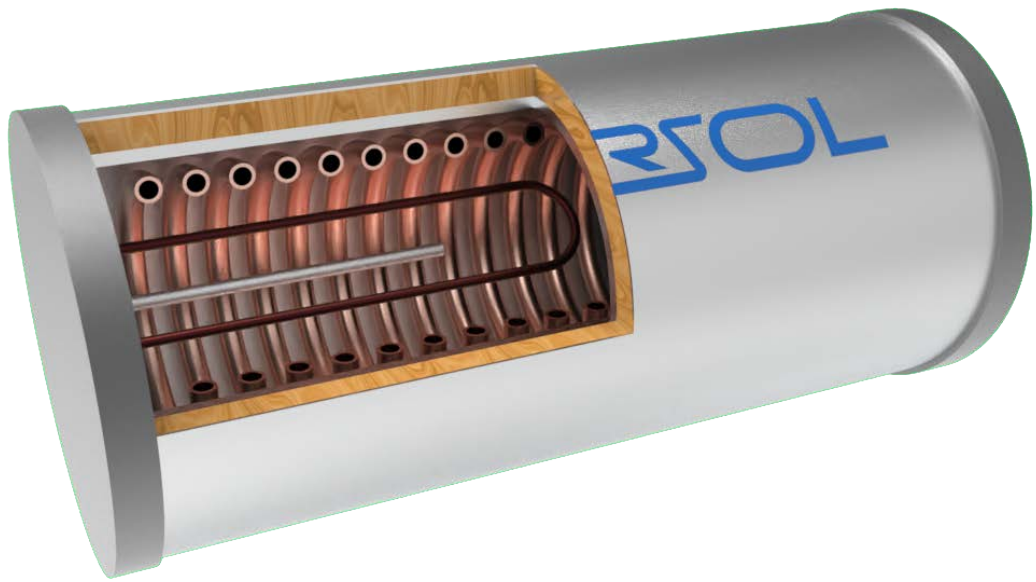
	STD/SS model	120 lt	150 lt	200 lt	250 lt	300 lt	500 lt
	Gross Capacity (lt)	116	144	199	242	295	502
A	Tank's Length (mm)	1058	1330	1330	1565	1805	1737
B	External Diameter (mm)	Ø 500	Ø 500	Ø 580	Ø 580	Ø 580	Ø 750
C	Main Tank's Diameter (mm)	Ø 400	Ø 400	Ø 480	Ø 480	Ø 480	Ø 640
	Jacket's Capacity (lt)	6	8	9	12	19	24
D	Flange Diameter (mm)	Ø 140	Ø 140	Ø 140	Ø 140	Ø 140	Ø 140
	Weight (kg)	49	60	70	84	102	132

STORAGE TANKS FOR SOLAR WATER HEATER

VERSOTHERM - STT/SPIRA

TECHNICAL SPECIFICATIONS

Main Tank's Material	DC Sheet (*EN 10130/2006*)
Internal Anti-corrosion Protection	a) LIQUID enamel (*DIN 4753-3*), totally safe for public health (*DIN 51032 & EN 1388-2*) and b) magnesium anode (*EN 12438*)
Insulation	Hard polyurethane foam 48kg/m^3 (*DIN 53420*), self-extinguishing (*DIN 4102*)
Maximum Working Pressure for the Main Tank	6 bar
Test pressure for the Main Tank	10 bar (*EN 12976-1, 4.1.6*)
Maximum Working Pressure for the heat *exchanger*	3,2 bar
Test Pressure for the heat *exchanger*	5 bar (*EN 12976-1/2006, 4.1.6*)
Maximum Working Temperature of the Main Tank	95℃
Heating Element	Optional, upon request 1.5/2.5/3.0 kW
External Cover	Pre-painted galvanized steel sheet 0,5mm (*EN 10204/2.2*)



	STT/SPIRA model	150 lt	200 lt	300 lt	500 lt
	Gross Capacity (lt)	144	199	295	502
A	Tank's Length (mm)	1285	1285	1785	1737
B	External Diameter (mm)	Ø 500	Ø 580	Ø 580	Ø 750
C	Main Tank's Diameter (mm)	Ø400	Ø480	Ø480	Ø640
	Jacket's Capacity (lt)	8	9	19	24
	Coil Surface 1" (m^2)	1,6	2,1	3,1	4
	Coil Capacity 1" (lt)	9,92	13,22	19,83	24,45
	Coil max Pressure (bar)	25	25	25	25
	Coil max Temperature (°C)	100	100	100	100
D	Flange Diameter (mm)	Ø 140	Ø 140	Ø 140	Ø 140
	Weight (kg)	84	99	130	18

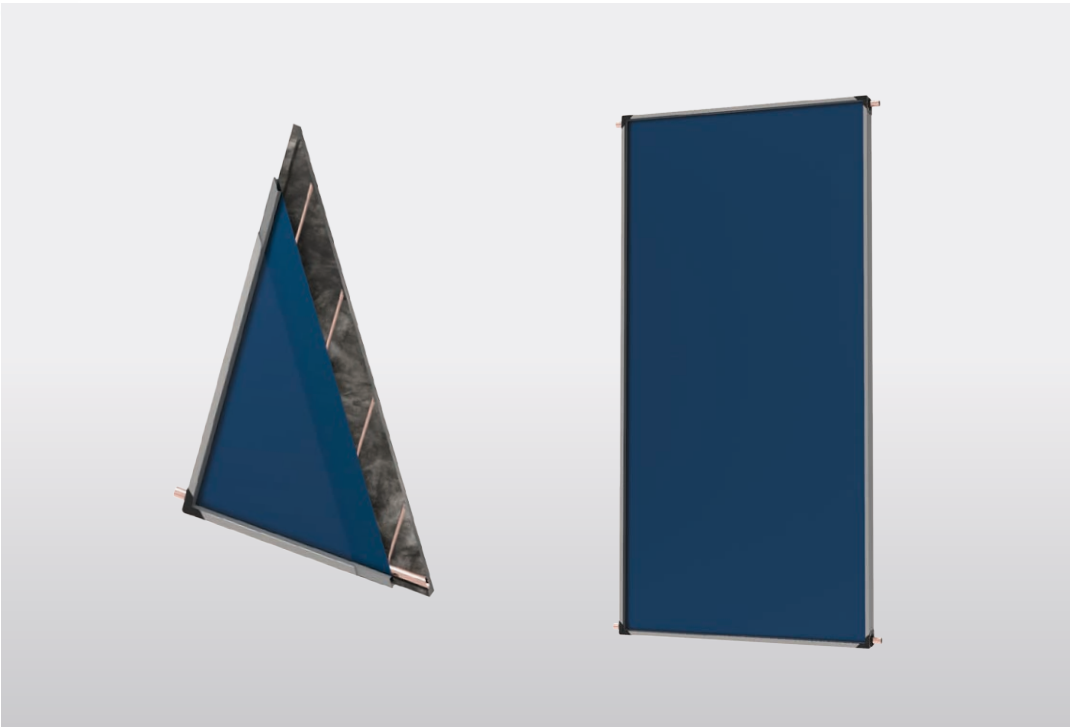
VERSOSUN SOLAR THERMAL PANELS

VERSOSUN- FP-CU/AL

Versol Flate Plate Solar Thermal Collectors Use Selective Coating Powerful Insulation And Copper Wet Parts. Versol Thermal Panels Are With High Thermal Capacity And Low Pressure Drop.

TECHNICAL SPECIFICATIONS

TECHNICAL DATA	MEASUREMENT UNIT (SI)				
TYPE		**FP1,5CU/AL**	**FP2,0CU/AL**	**FP2,2CU/AL**	**FP2,5CU/AL**
Extrenal dimensions (*height × width × thickness*)	mm	1460×960×80	1960×960×80	1960×1040×80	1960×1210×80
Gross area	m^2	1,40	1,88	2,04	2,37
Aperture area	m^2	1,32	1,79	2,01	2,27
Absorber area	m^2	1,35	1,83	1,71	2,33
Absorber capacity	L	1,45	1,63	1,63	1,81
Compact Tray / thickness	mm	Pre-painted galvanized metal sheet / 0.5			
Glass		Clear, tempered			
Insulation (*Back and side*) thickness / density	mm / Kg/m^3	Mineral glass wool 30mm / density 24 kg/m^3. Product specifically designed for collectors, with very low conductivity to avoid losses. It is certified that it prevents glass fogging of the collector.			
Absorber		Copper harp-type, Full Face Aluminum Selective Surface. Laser welding.			
Absorbtion	%	95			
Emission	%	5			
Header copper tube Ø / thickness	mm	Ø 22 / 0,7			
Riserer copper tube Ø / thickness	mm	Ø Ø 8 / 0,			
Number of vertical risers	No.	10	10	10	11
Maximum operating pressure	Bar	10			
Heat transfer mean		Antifreeze and water solution (*monopropylene glycol*)			
Layout		Vertical			
Weight (*empty & packed*)	Kg	30	37	38	41

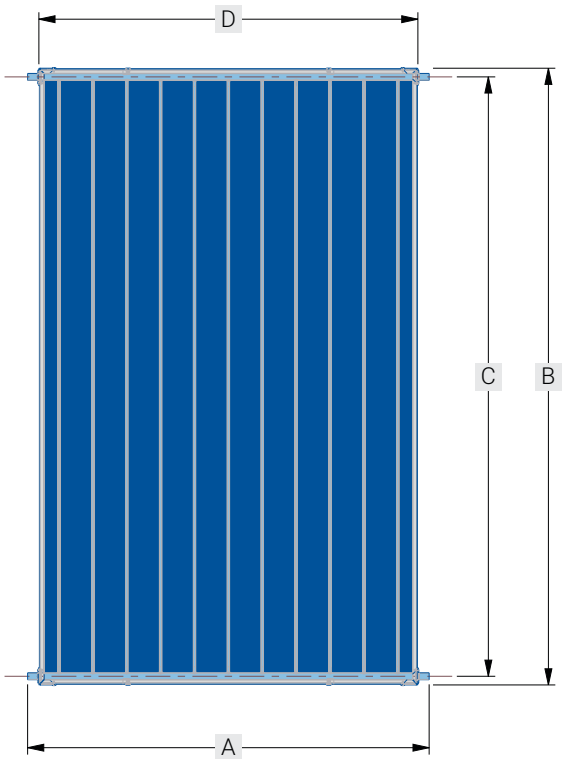


FP1,5CU/AL	
A	1030 mm
B	1460 mm
C	1405 mm
D	960 mm

FP2,0CU/AL	
A	1030 mm
B	1960 mm
C	1910 mm
D	960 mm

FP2,2CU/AL	
A	1030 mm
B	1960 mm
C	1910 mm
D	1040 mm

FP2,5CU/AL	
A	1280 mm
B	1960 mm
C	1910 mm
D	1210 mm



MOUNTING FRAME

FRAME-TS-45 (45°)

Versol mounting frame are manufactured according to the stability and resistance against time and adverse weather conditions. With these systems we achieve:

- Easy installation
- Less storage space
- Logistics' cost reduction
- Easy transportation

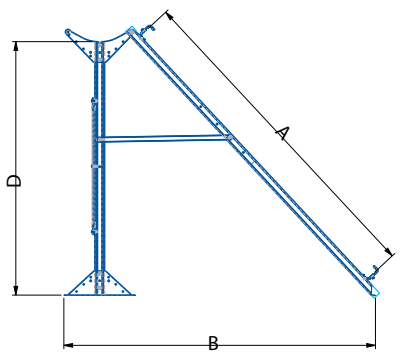
The standard material of the mounting system parts is galvanized steel. Alternatively you can choose the mounting system parts to be made out of magnelis/aliminum and the fasteners made out of stainless steel.

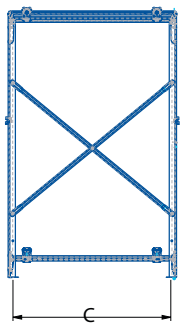
DIMENSIONS (MM)

A*	1370 to 1505	1885 to 2020
B	1560	1845
C	780 / 940	780 / 940
D	1080	1500
Kg (*one collector*)	18,52	20,35
Kg (*two collectors*)	21,97	23,56

m² collector	**Collectors Quantity**	
1,5 / 2 m²	1	2
2,5 m²	1	
Maximum system capacity for support 300L		

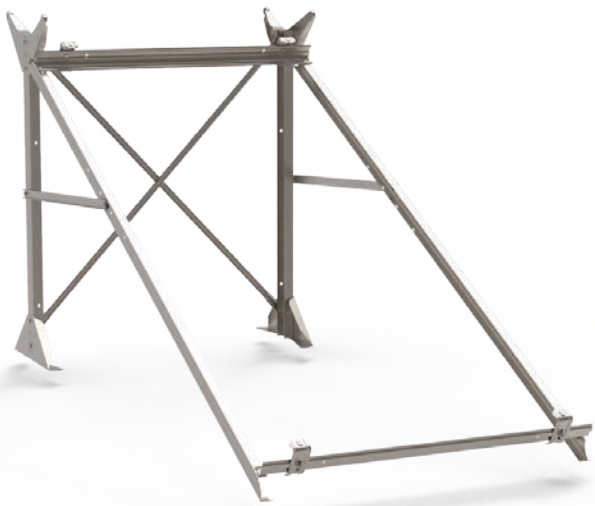
* *The collector crossing can be used in various positions. Valid for all our support systems.*





MOUNTING FRAME

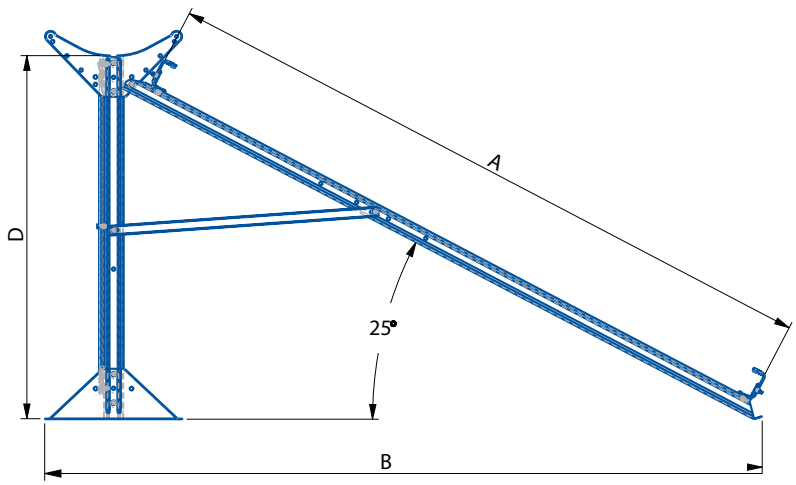
FRAME-TS-25 (25°)

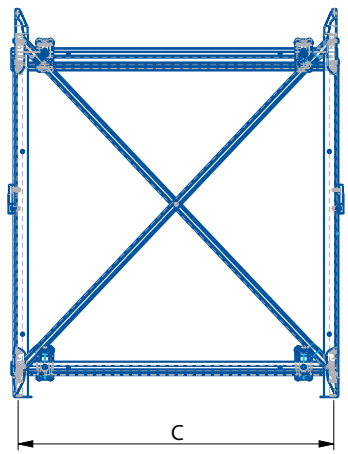


DIMENSIONS (MM)

A	1885 to 2020	1885 to 2020
B	2120 (35) to 2135 (25)	2120 (35) to 2135 (25)
C	940	940
D	1082 (35) to 1175 (25)	1082 (35) to 1175 (25)
Kg (*one collector*)	18,5	18,5
Kg (*two collectors*)	22,5	22,5

m² collector	**Collectors Quantity**	
2 m²	1	2
2,5 m²	1	2
Maximum system capacity for support 300L		





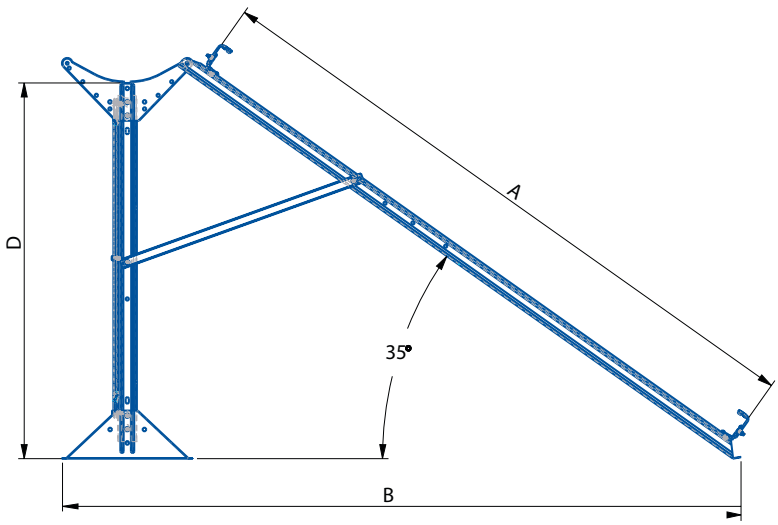
MOUNTING FRAME

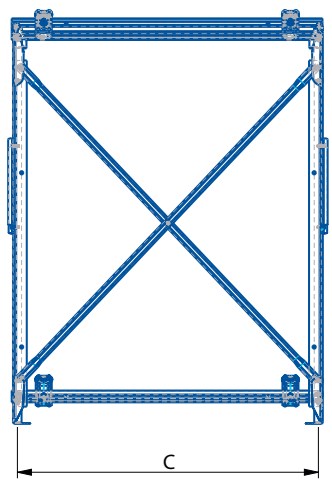
FRAME-TS-35 (35°)

DIMENSIONS (MM)

A	1885 to 2020	1885 to 2020
B	2120 (35) to 2135 (25)	2120 (35) to 2135 (25)
C	940	940
D	1082 (35) to 1175 (25)	1082 (35) to 1175 (25)
Kg (*one collector*)	18,5	18,5
Kg (*two collectors*)	22,5	22,5

m² collector	**Collectors Quantity**	
2 m²	1	2
2,5 m²	1	2
Maximum system capacity for support 300L		





MOUNTING FRAME

FRAME-TS-FLAT

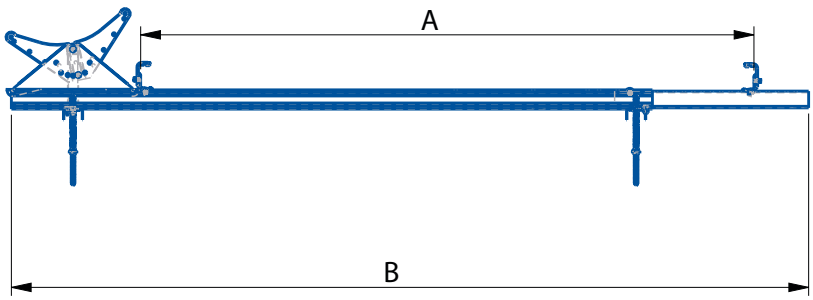
DIMENSIONS (MM)

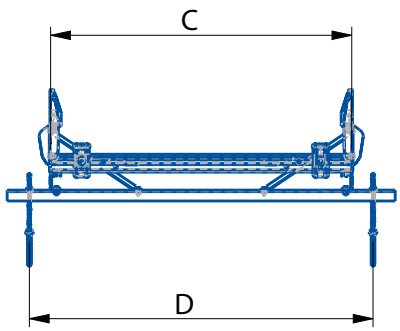
A	1480 to 2120
B	2568
C	780 / 940
D	1250
Kg (*one collector*)	22,3
Kg (*two collectors*)	25,65

m² collector	**Collectors Quantity**	
1,5 / 2 m²	1	2
2,5 m²	1	

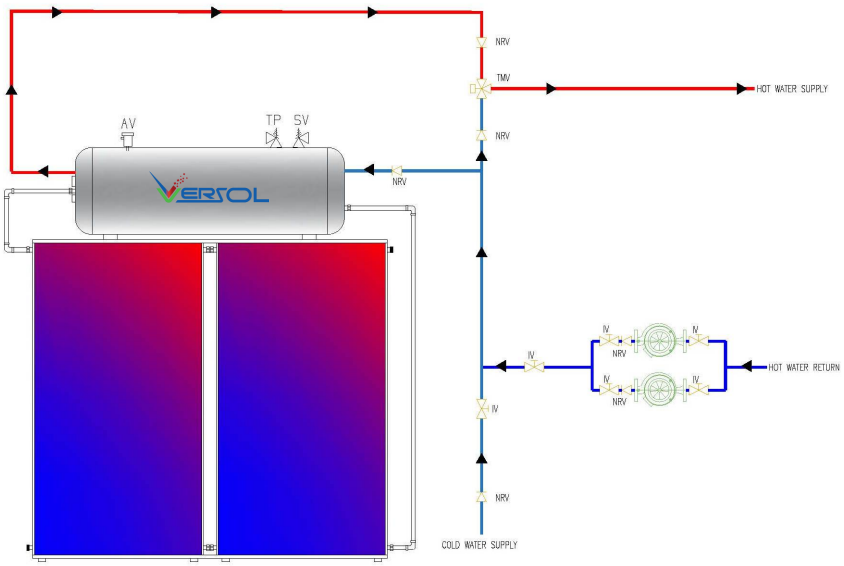
Alternative Roof Mounting

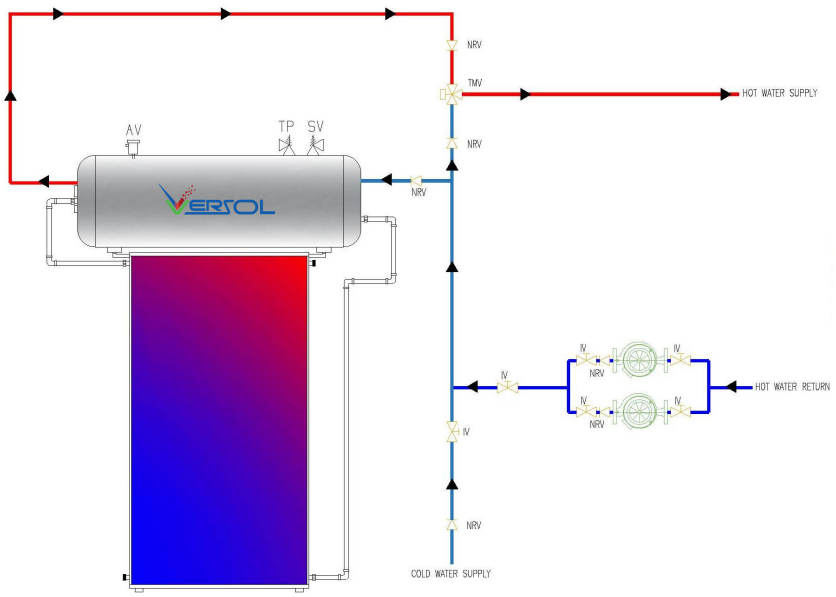
×4 pieces





INSTALLATION LAYOUT





ELECTRIC IMMERSION HEATERS VERSOHEX-IM-EH

Capacity: 1.5kW / 230V

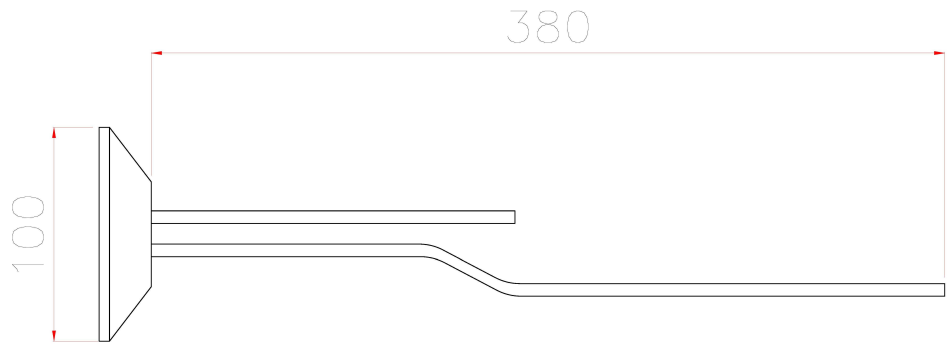
Capacity: 2.0kW / 230V

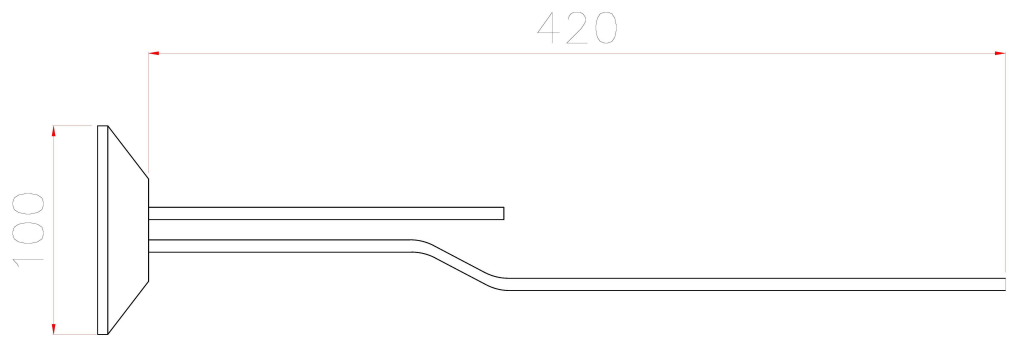
Capacity: 3.0kW / 230V

TECHNICAL DATA SHEET-ELECTRIC HEATER

DESCRIPTION	IMMERSION HEATER FOR THERMOSIPHON TANK
MEDIUM	DOMESTIC WATER / PORTABLE WATER
HEATING ELEMENT LOAD DENSITY	10.7 W/Cm2
STAGE	1 STAGE
PERMISSIBLE MAXIMUM PRESSURE	16 BAR
CONNECTION	FLANGE
MOC-HEATING COIL	INCOLLOY 800
	STAINLESS STEEL
	COPPER
SHEATH MAXIMUM TEMPERATURE:	200°C
SUPPLY VOLTAGE	230V, 50Hz, 1 Phase
CONTROL THERMOSTAT RANGE	30°C-80°C
MOC THERMOSTAT LEAD	COPPER

ELECTRIC IMMERSION HEATERS VERSOHEX-IM-EH





ACCESSORIES

THERMOSTATIC MIXING VALVE

Thermostatic mixing valves are used in domestic hot water systems to regulate and maintain the temperature of domestic hot water, thereby providing protection against burns.

Manufactured according to European standards EN 12164:2011, EN 12165:2011, EN 1503–4:2003, EN 10088–3:2005, EN 12516–3:2003, EN 12266–1:2012.

TECHNICAL FEATURES

Material: Dzr brass
Max working pressure: 1,0 MPa (*10 bar*)
Max working temperature: 99°C
Temperature setting range: +38°C to +65°C

SOLAR SYSTEM CONNECTION MATERIAL

Complete solution variety to choose for your solar themosiphonic system set. All the offered sets are quality specified with respect towards the end user.

TEMPERATURE & PRESSURE SAFETY VALVE

Temperature and pressure relief valves are suitable for the solar water heaters to provide automatic overpressure and overheating protection.

At first, it responds to excessive pressure by opening the valve at the regulated pressure level, typically at 10 Bar, to prevent further pressure increase. The pressure & temperature relief valve detects excessive pressure, opens and discharges thermal expansion by returning pressure back to normal conditions.

Secondly, it responds to overheating. When the water temperature in the solar water heater reaches 95°C, the internal thermostatic element of the discharge valve expands, lifting the valve tray from its position to expel the overheated water. This allows colder water to enter the tank and adjust the temperatures. When the temperature returns to a safe level (*below 95°C*), the thermostat shrinks, allowing the spring to reposition the valve. At this point the temperature discharge element is ready to protect the system again.

TECHNICAL PARAMETERS

Pressure setting: 10 Bar
Adjustable pressure tolerance: +5%, -10% of the adjusted pressure
Temperature adjustment: Up to 99°C
Temperature tolerance setting: 95°C – 99°C

Water Heating & Cooling Solutions

Solar Water Heaters

Heat Exchangers

Storage Calorifiers

Heat Pump

Hot Water Boilers

Gas Fired Calorifiers

Electric Calorifiers

Steam Boilers

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