

# SOLAR WATER HEATERS



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**SAWAN**

solar systems

# SAWAN ECO

## Type



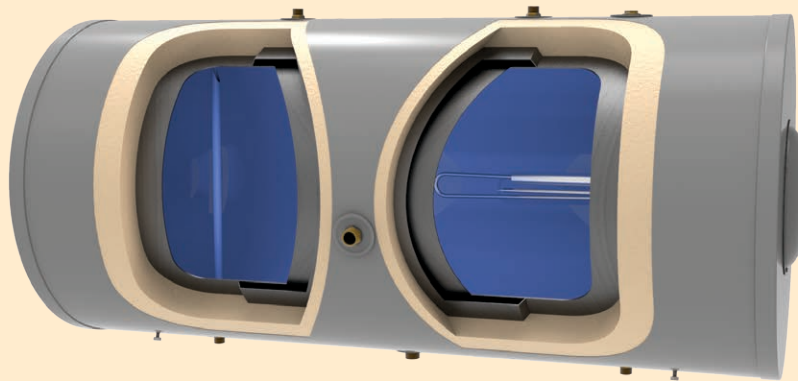
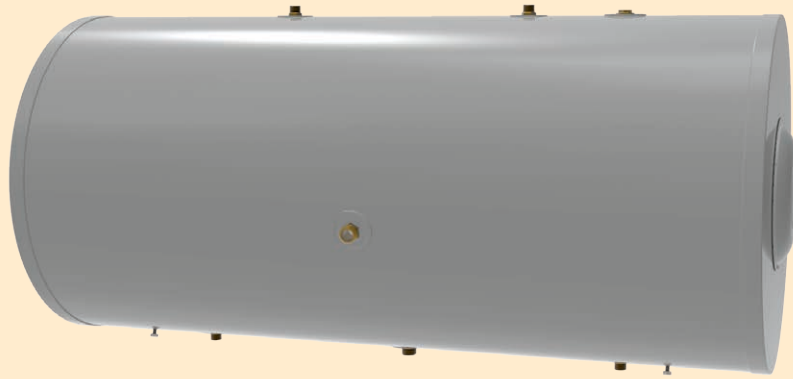
### TECHNICAL SPECIFICATIONS

<b>Main Tank's Material</b>	DC Sheet (EN 10130/2006)
<b>Internal Anti-corrosion Protection</b>	a) LIQUID enamel (DIN 4753-3), totally safe for public health (DIN 51032 & EN 1388-2) and b) magnesium anode (EN 12438)
<b>Welding</b>	MIG
<b>Insulation</b>	Hard polyurethane foam 48kg/m <sup>3</sup> (DIN 53420), self-extinguishing (DIN 4102)
<b>Maximum Working Pressure for the Main Tank</b>	10 bar
<b>Test pressure for the Main Tank</b>	15 bar (EN 12976-1, 4.1.6)
<b>Maximum Working Pressure for the Jacket (exchanger)</b>	3,2 bar
<b>Test Pressure for the Jacket (exchanger)</b>	5 bar (EN 12976-1/2006, 4.1.6)
<b>Maximum Working Temperature of the Main Tank</b>	95°C
<b>Heating Element</b>	Optional, upon request
<b>External Cover</b>	Pre-painted galvanized steel sheet 0,5mm (EN 10204/2.2)

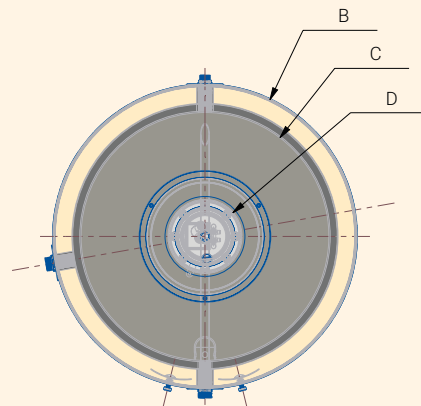
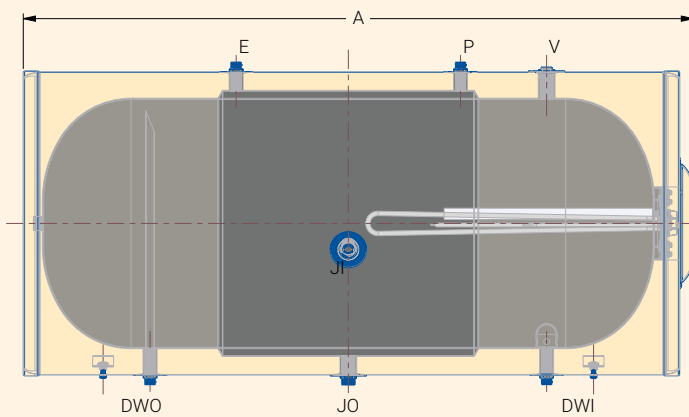
	<b>SAWAN ECO model</b>	<b>120 lt</b>	<b>150 lt</b>	<b>200 lt</b>	<b>250 lt</b>	<b>300 lt</b>
	Gross Capacity (lt)	116	144	199	242	295
A	Tank's Length (mm)	1065	1285	1285	1551	1785
B	External Diameter (mm)	Ø 500	Ø 500	Ø 580	Ø 580	Ø 580
C	Main Tank's Diameter (mm)	Ø 400	Ø 400	Ø 480	Ø 480	Ø 480
	Jacket's Capacity (lt)	6	8	9	12	19
D	Flange Diameter (mm)	Ø 140	Ø 140	Ø 140	Ø 140	Ø 140
	Weight (kg)	46	58	68	82	100



EXTERNAL  
COVER SS304



<b>E</b>	Pressure valve position protecting closed circuit	
<b>P</b>	Inlet to fill exchanger's solution and (optional) expansion vessel position	
<b>V</b>	Pressure and temperature valve position protecting main tank	
<b>DWO</b>	Domestic hot Water Outlet	<b>JO</b> Closed circuit cold water outlet
<b>DWI</b>	Domestic cold Water Inlet	<b>JI</b> Closed circuit hot water inlet



# SAWAN 1

## Collector

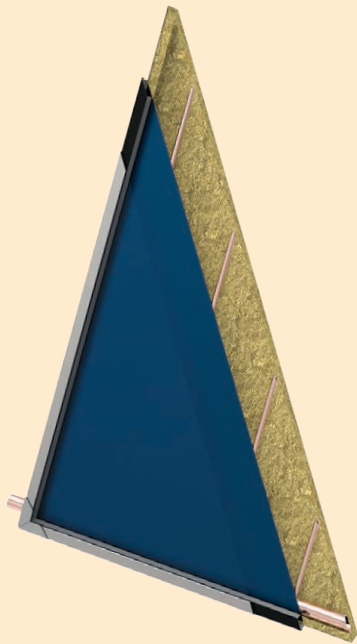
(with frame)



### TECHNICAL SPECIFICATIONS

TECHNICAL DATA	MEASUREMENT UNIT (SI)	COLLECTOR'S CHARACTERISTICS SAWAN 1 - FULL FACE		
		SAWAN 1 – 15	SAWAN 1 – 20	SAWAN 1 – 25
<b>TYPE</b>				
Extrenal dimensions (height × width × thickness)	mm	1460×960×80	1960×960×80	1960×1210×80
Gross area	m <sup>2</sup>	1,40	1,88	2,37
Aperture area	m <sup>2</sup>	1,32	1,79	2,27
Absorber area	m <sup>2</sup>	1,35	1,83	2,33
Absorber capacity	L	1,45	1,63	1,81
Frame / thickness	mm	Coated galvanized sheet metal / 0,5		
Glass		Clear tempered		
Insulation (Back and side) thickness / density	mm / Kg/m <sup>3</sup>	Rockwool thickness 30mm / density 50 kg/m <sup>3</sup> . Product specifically designed for collectors, with very low conductivity to avoid losses. Its properties remain unchanged over time. Parasites are prevented.		
Absorber		Copper harp-type, Full Face Aluminum Selective Surface. Laser welding.		
Absorbtion	%	95		
Emission	%	5		
Header copper tube Ø / thickness	mm	Ø 22 / 0,70		
Riserer copper tube Ø / thickness	mm	Ø 8 / 0,40		
Number of vertical risers	No.	10	10	11
Maximum operating pressure	Bar	10		
Heat transfer mean		Antifreeze and water solution ( <i>monopropylene glycol</i> )		
Layout		Vertical		
Weight (empty & packed)	Kg	30	37	41





**SAWAN 1 – 15**

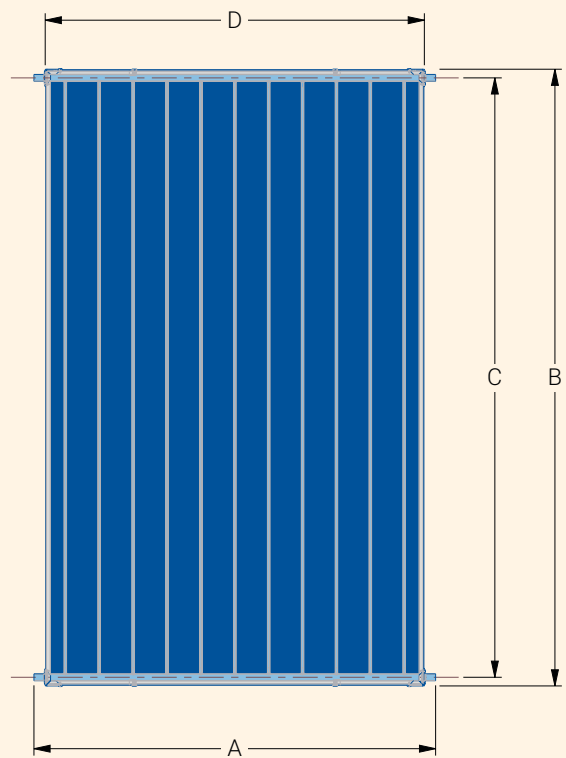
A	1030 mm
B	1460 mm
C	1405 mm
D	960 mm

**SAWAN 1 – 20**

A	1030 mm
B	1960 mm
C	1910 mm
D	960 mm

**SAWAN 1 – 25**

A	1280 mm
B	1960 mm
C	1910 mm
D	1210 mm



# SUPPORT Base (25°– 35°)



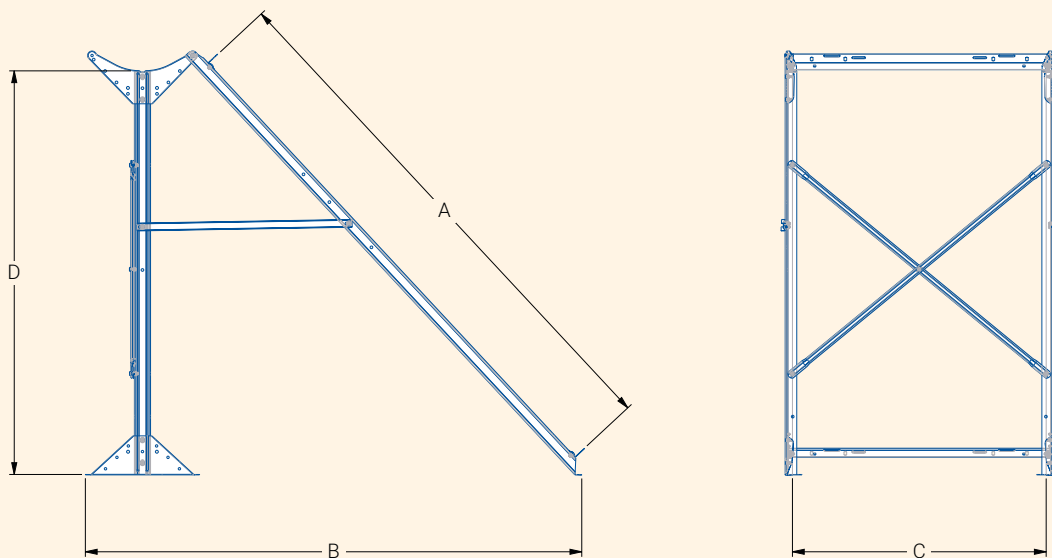
## DIMENSIONS (MM)

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

<b>m<sup>2</sup> collector</b>	<b>Collectors Quantity</b>	
1,5 / 2 m <sup>2</sup>	1	2
2,5 m <sup>2</sup>	1	

Maximum system capacity for support 300L

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



# SUPPORT Base (45°)

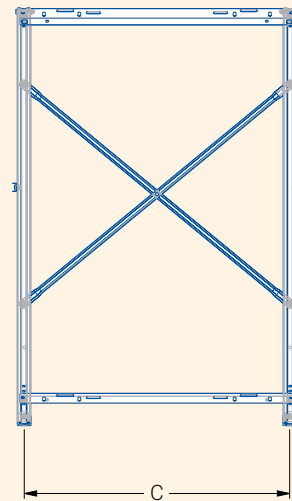
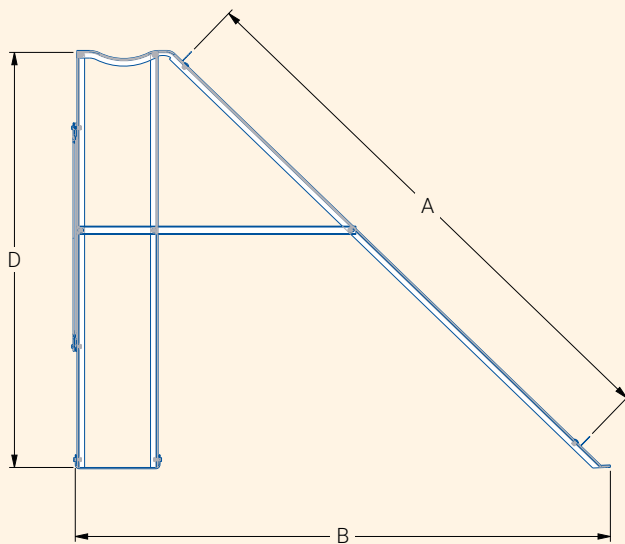


## DIMENSIONS (MM)

<b>A</b>	1405 to 1545	1880 to 2020
<b>B</b>	1561	1895
<b>C</b>	780 / 940	780 / 940
<b>D</b>	1125	1470
<b>Kg (one collector)</b>	18,2	21,62
<b>Kg (two collectors)</b>	21,14	24,88

<b>m<sup>2</sup> collector</b>	<b>Collectors Quantity</b>	
1,5 / 2 m <sup>2</sup>	1	2
2,5 m <sup>2</sup>	1	

Maximum system capacity for support 300L



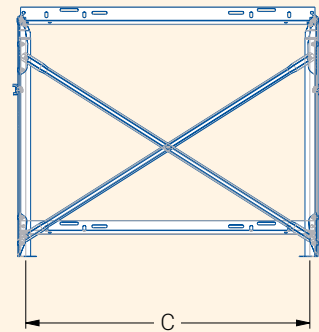
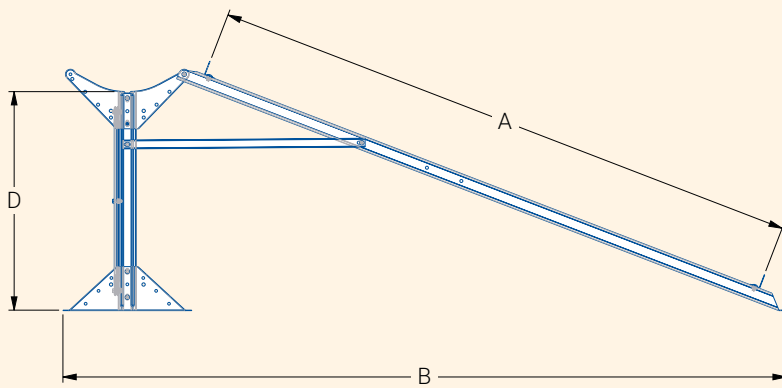
# SUPPORT Base (21°)



## DIMENSIONS (MM)

<b>A*</b>	1875 to 2005
<b>B</b>	2383
<b>C</b>	940
<b>D</b>	720
<b>Kg (one collector)</b>	17,44
<b>Kg (two collectors)</b>	21,98

<b>m<sup>2</sup> collector</b>	<b>Collectors Quantity</b>	
2 m <sup>2</sup>	1	2
2,5 m <sup>2</sup>	1	
Maximum system capacity for support 300L		



# Tiled Roof



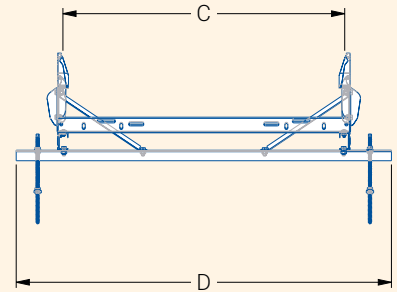
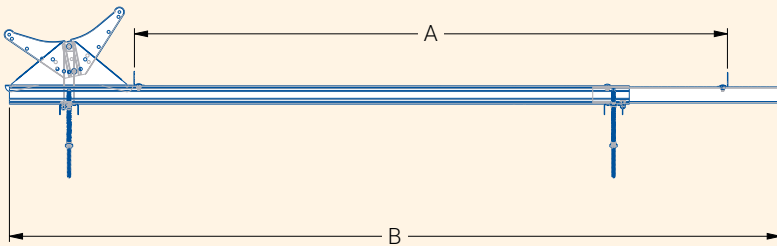
## DIMENSIONS (MM)

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

m <sup>2</sup> collector	Collectors Quantity	
	1,5 / 2 m <sup>2</sup>	1
2,5 m <sup>2</sup>	1	



**Alternative  
Roof Mounting**  
×4 pieces





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