



ASTERSA thermo-siphon kits are most suitable for housing located in mild and hot climates. Their high production of hot water is due to the high quality and efficiency of their different elements

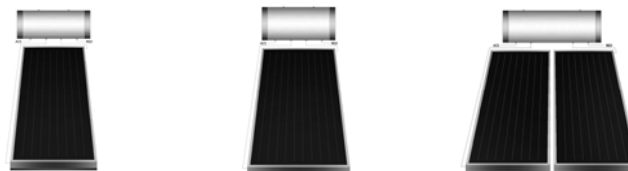
The circulating flow through closed circuit is produced by natural flow, due to the temperature difference between hot and cold layers inside the own circuit. The expansion of heat transmitter fluid by temperature increase is totally absorbed by an expansion vessel located in the accumulator double coating.

They do not consume power and they are self-sufficient
This kit includes all the necessary elements to be interconnected, guaranteeing a right operation and long useful life with a high performance.
The installation is fast, easy and with no maintenance

Thermo-siphon kit includes:

- Horizontal solar accumulator 150, 200 or 300 litres
- Solar collector AS-1.8M or AS-2.0 M
- Installation kit
- Flat or sloping roof anodized aluminium structure

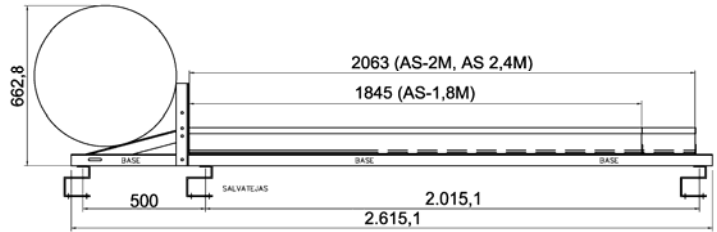
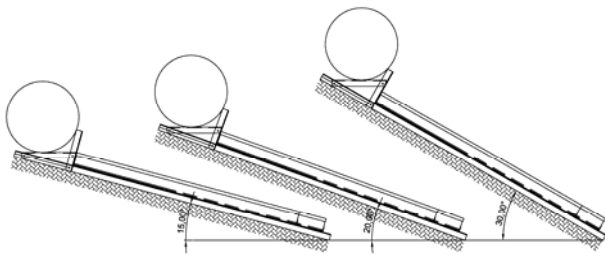
TECHNICAL FEATURES



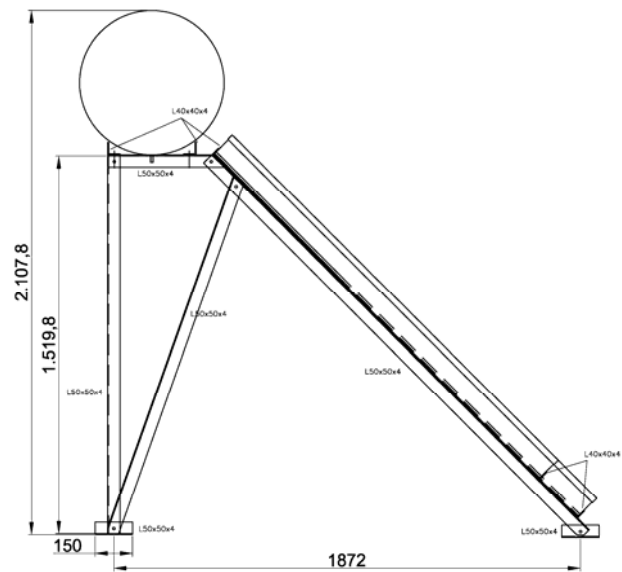
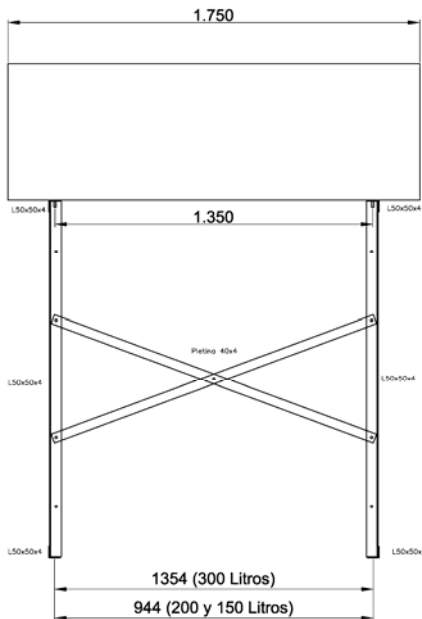
Type	AS – 150 H	AS – 200 H	AS – 300 H
SOLAR ACCUMULATION			
Volume	150 litres	200 litres	300 litres
Manufacturing	USD 37.2 2,5 mm thickness double vitrified steel (DIN 4753) to 840°C		
Exchanger	USD 37.2 1,5 mm thickness steel double coating.		
Exchanging area	0,80 m ²	1,20 m ²	1,40 m ²
Fluid volume	6,50 l	7,00 l	8,00 l
Insulation	Rigid Polyurethane 50 mm thickness and 40 kg/m ³ density		
External finishing	Steel sheet with RAL 9006 treatment		
Empty weight	60,0 Kg	67,0 Kg	106,0 Kg
Dimensions	Ø 520 x 1.320 mm	Ø 530 x 1.320 mm	Ø 530 x 2.080 mm
Certification	ISO 9001:2000 INTA CSTB TÜV		
SOLAR COLLECTION			
Collector type	AS 1.8 M (1 panel)	AS 2.0 M (1 panel.)	AS 1.8 M (2 panel.)
Useful area	1,80 m ²	2,00 m ²	3,60 m ²
Manufacturing	Selective BLUETEC, AL 6063 T5 steel case and 50 mm mineral wool insulation		
Optical performance	74,80 %	77,60 %	74,80 %
Losses factor 1º	3,718 W/m ² ·K	3,635 W/m ² ·K	3,718 W/m ² ·K
Losses factor 2º	0,014 W/m ² ·K ²	0,013 W/m ² ·K ²	0,014 W/m ² ·K ²
Empty weight	36,0 Kg	42,5 Kg	72,0 Kg
Fluid volume	1,30 l	1,60 l	2,60 l
Certification	KEYMARK Nº 011-7S508F		
STRUCTURE	Made of anodized aluminium NB-AE/88 (10,0 Kg)		
KIT SOLAR			
Fluid volumen1º	8,40 l	8,90 l	11,20 l
Pressures	Working: 10,0 bar Testing: 13,0 bar Offload: 2,5 bar		
Relation V/A	83,3 l/m ²	100,0 l/m ²	83,3 l/m ²
Empty weight	106,0 Kg	119,5 Kg	188,0 Kg
Service weight	264,5 Kg	328,5 Kg	499,0 Kg
Certification	UNE-12976 – KEYMARK – TÜV		

ASTERSA structures are made up of AL 6063-T5 aluminium with shape forms designed to support the heaviest weights, meeting strictly the specified under building norm NB-AE/88.

SLOPING ROOF STRUCTURE



FLAT ROOF STRUCTURE



CONNECTION KIT

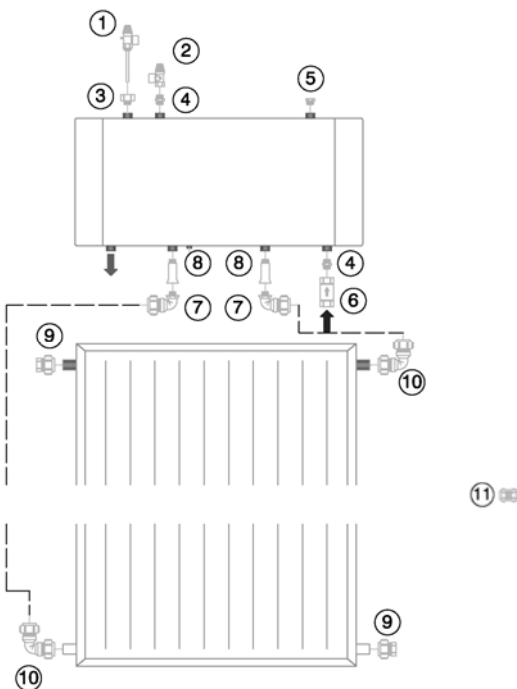


FIGURE	REFERENCE	Number of pieces per type	
		150 - 200	300
01	Pressure relief valve (P&T) 3/4" M	1	1
02	Safety valve 3 Bar 1/2" H	1	1
03	Reduced nipple 3/4" - 1/2" MH	1	1
04	Blank cap 3/4" - 1/2" M	2	2
05	Cap 1/2" H	1	1
06	Non return valve 1/2" H	1	1
07	Conex 22 Connector H - 3/4" M	2	2
08	Reduced nipple 1/2"-3/4" MF	2	2
09	Blank cap Conex 22 H	2	2
10	90° Elbow Conex 22 H	2	2
11	Straight Conex Connector 22 H	0	2

REFERENCES

AS-150 H	WITH FLAT ROOF STRUCTURE
	WITH SLOPING ROOF STRUCTURE
AS-200 H	WITH FLAT ROOF STRUCTURE
	WITH SLOPING ROOF STRUCTURE
AS-300 H	WITH FLAT ROOF STRUCTURE
	WITH SLOPING ROOF STRUCTURE

AS01015118P
AS01015118R
AS01020120P
AS01020120R
AS01030218P
AS01030218R

ADDITIONAL ELECTRICAL IMMERSION (optional) OF 2.5 KW AND THERMOSTAT (MPS81)