



ASTERSA forced flow kits are the best option for housing located in hot or cold climates. Their high production of hot water is due to high quality, efficiency and reliability of their different elements.

The system consist of a solar accumulator fitted with a high surface coil, a solar collection system, a solar station and all the safety, expansion and hydraulic circuit filling necessary elements.

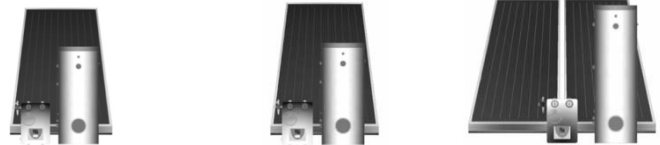
This kit has all the necessary elements for connections, ensuring a right operation and long useful life with a high performance.

Its installation is fast, easy and has options for architectural integration on any type of roof.

Forced flow kit includes:

- 150, 200 or 300 litres vertical solar accumulator
- AS-1.8M or AS-2.0 M Solar collector
- Flat or sloping anodized aluminium structure
- TEC-SOL 2V Solar station
- 18 litres Expansion vessel
- Expansion vessel connection set
- Hand operated filling pump up to 4 bar
- Installation kit
- Anti-freezing and anti-corrosion liquid

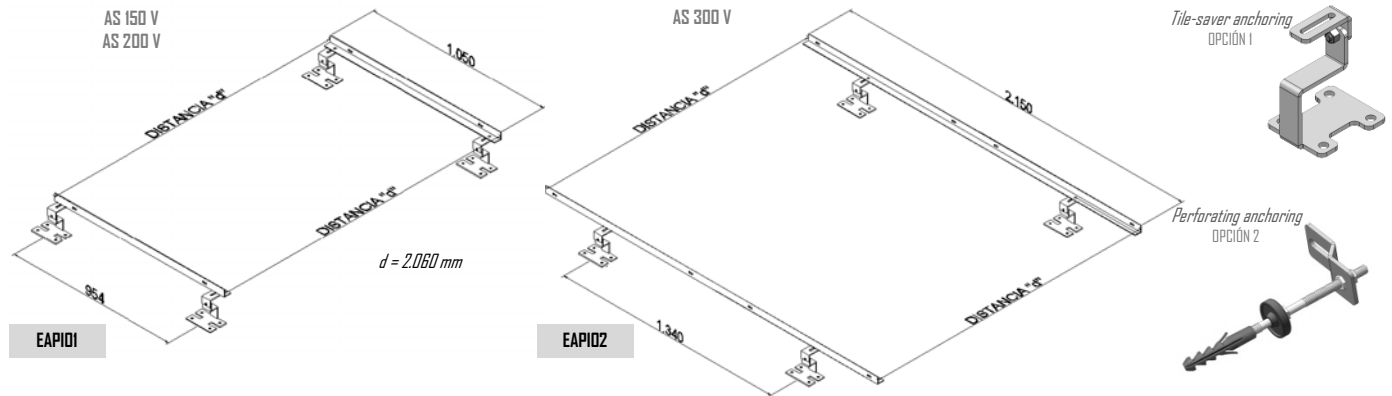
TECHNICAL FEATURES



Type	AS – 150 V	AS – 200 V	AS – 300 V
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 vitrified steel serpentine (DIN 4753) a 840 °C		
Exchanging area	0,60 m ²	0,80 m ²	1,30 m ²
Fluid volume	4,50 l	6,00 l	9,25 l
Insulation	Rigid Polyurethane 50 mm thickness and 40 kg/m ³ density		
External finished	Polyester sheet finished and treated in white colour		
Empty weight	60,0 Kg	65,0 Kg	75,0 Kg
Dimensions	Ø 560 x 1.260 mm	Ø 620 x 1.207 mm	Ø 620 x 1.685 mm
Certification	ISO 9001:2000 INTA		
SOLAR COLLECTION			
Collector type	AS 1.8 M (1 panel)	AS 2.0 M (1 panel)	AS 1.8 M (2 panels)
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	1,30 l	2,60 l
Certification	KEYMARK Nº 011-7S508F	(AS 2.0 M) NPS-0208	(AS 2.4 M) NPS-0308
STRUCTURE	Made up of anodized aluminium, whether for flat or sloping roofs. NB-AE/88 (6,5 Kg)		
SOLAR KIT			
Fluid volumen1º	According to hydraulic circuit length		
Pressures	Maximum pressure: 8,0 bar Maximum temperature 1º: 200,0 °C		
Relation V/A	75,0 l/m ²	83,3 l/m ²	75,0 l/m ²
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



FORCED FLOW KITS

FLAT ROOF STRUCTURES

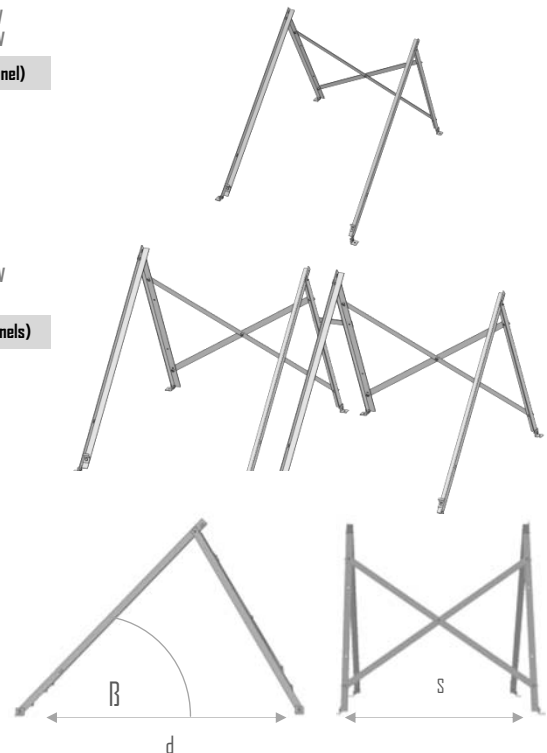
ITEM	REFERENCES	150 -200	300
1	RACORD CONEX 22 H	1	1
2	CROSS 3/4" H	1	1
3	REDUCED NIPPLE 3/4" - 1/2" MH	2	2
4	CUTTING VALVE 1/2" MH	2	2
5	AUTOMATIC PURGING 1/2" M	1	1
6	INMERSSION POD 1/2" M	2	2
7	BLANK CAP 3/4" M	2	2
8	REDUCTION 1" - 1/2" HM	2	2
9	BLANK CAP 1/2" M	1	1
10	SAFETY VALVE 8 BAR 1/2" H	1	1
11	BLANK CAP CONEX 22 H	2	2
12	RETENTION VALVE 1/2" H	1	1
13	CONEX 18 - 1/2" M	3	3
14	CONEX 18 - 3/4" M	5	5
15	CONEX 22 - 1/2" H	1	1
16	T 1/2"	1	1
17	CONNECTION SET V. EXP. 3/4" H	1	1
18	EXPANSION VESSEL 18 LITRES 3/4" H	1	1
19	HAND OPERATED FILLING PUMP 3/4" H	1	1
20	ANTI-FREEZING BOTTLE 5 L.	1	1
21	TEC-SOL 2V SOLAR STATION	1	1
22	CONEX 22 H	0	2

AS 150 V
AS 200 V

EAP00 (1 panel)

AS 300 V

EAP00 (2 panels)



FLAT ROOF ANCHORING DIMENSIONS	Inclination β	d (mm)		S (mm)	
		Frontal	Back	AS 150 V AS 200V	AS 300V
	35°	1.970		1.132	1.317
	40°	1.785			
	45°	1.565			
	50°	1.290			

REFERENCES

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

AS02015118P
AS02015118R
AS02020120P
AS02020120R
AS02030218P
AS02030218R

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

