



ASTERSA drain-back kits are the best option for housing located in hot or cold climates. It is autonomous, self-regulated and with no maintenance

Its high production of hot water is due to high quality, efficiency and reliability of its different elements.

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

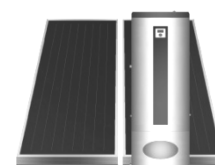
This kit has all the necessary elements to be interconnected, guaranteeing a right operation and long useful life with high performance.

Its installation is fast, easy, without any type of maintenance and has several options to be architecturally integrated on any type of roof.

Drain-back kit includes:

- Vertical DB solar accumulator 200 or 300 litres
- AS-1,8M or AS-2.0 M Solar collector
- Flat or sloping anodized aluminium structure
- Installation kit
- Anti-freezing and anticorrosion liquid

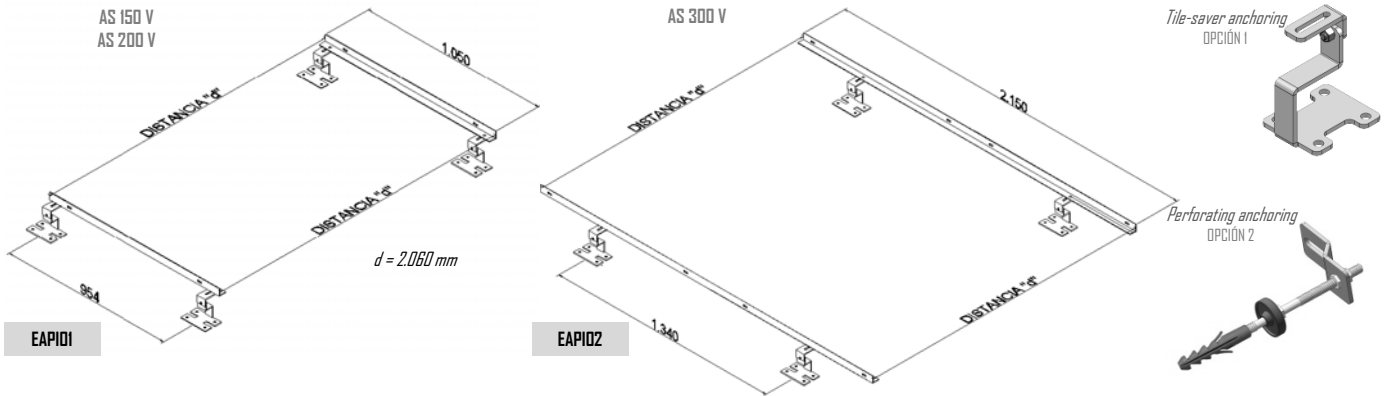
TECHNICAL FEATURES



Type	AS – 200 DB	AS – 300 DB
SOLAR ACCUMULATION		
Volume	200 litres	280 litres
Manufacturing	AISI 316 L Stainless steel 1,2 mm thickness	
Exchanger	AISI 316 L stainless steel serpentine 1,5 mm thickness	
Exchanging area	1,40 m ²	1,54 m ²
Fluid volume	11,55 l	12,71 l
Insulation	Rigid Polyurethane 50 mm thickness and 40 kg/m ³ density	
External finished	Polystyrene sheet treated and finished in clear blue	
Empty weight	75,0 Kg	85,0 Kg
Dimensions	Ø 570 x 1.629 mm	Ø 570 x 2.123 mm
Certification	ISO 9001:2000 TÜV	
SOLAR COLLECTION		
Collector type	AS 2.0 M (1 panel)	AS 1.8 M (2 panels)
Useful area	2,00 m ²	3,60 m ²
Manufacturing	Selective BLUETEC, AL 6063 T5 steel case and 50 mm mineral wool insulation	
Optical performance	77,60 %	74,80 %
Losses factor 1º	3,635 W/m ² ·K	3,718 W/m ² ·K
Losses factor 2º	0,013 W/m ² ·K ²	0,014 W/m ² ·K ²
Empty weight	42,5 Kg	72,0 Kg
Fluid volume	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	99,9 l/m ²	83, l/m ²
Certification	UNE-12976 – KEYMARK – TÜV	

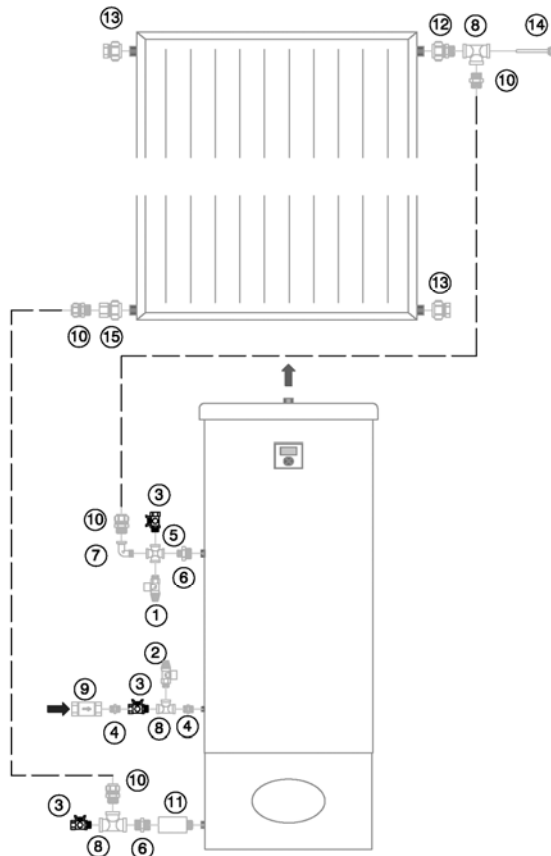
ASTERSA structures are made up of AL 6063-T5 aluminium with shape forms designed to support the heaviest weights, meeting strictly the specified under building norm NB-AE/88.

SLOPING ROOF STRUCTURE

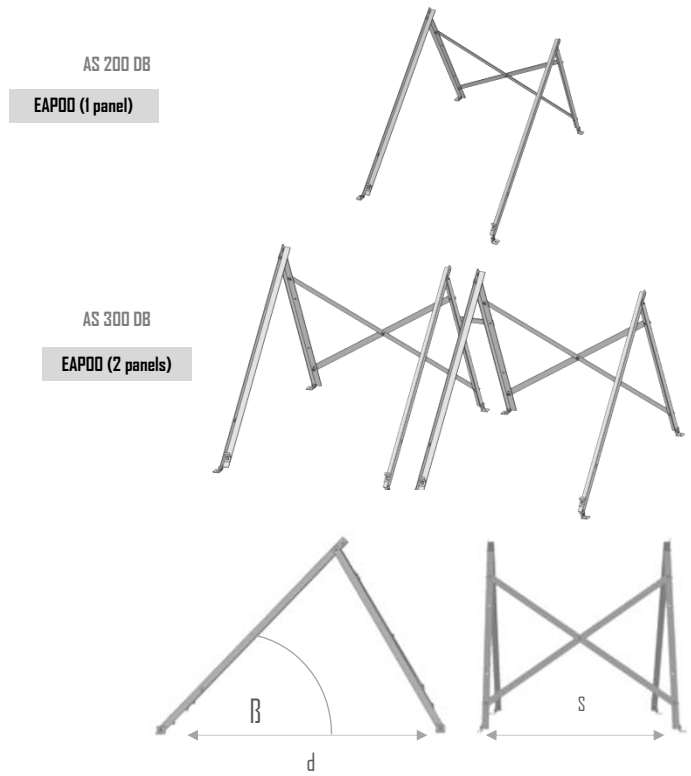


DRAIN-BACK KITS

ITEM	REFERENCES	200	300
1	SAFETY VALVE 1,5 BAR	1	1
2	SAFETY BALL 8,0 BAR	1	1
3	BALL PLUG	3	3
4	REDUCED NIPPLE 1/2"	1	1
5	CROSS 1/2" H	1	1
6	REDUCTION 3/4" - 1/2"	2	2
7	ELBOW 1/2"	1	1
8	T 1/2"	3	3
9	RETENTION VALVE 1/2"	1	1
10	CONEX 12 - 1/2" M	4	4
11	SOCKET	1	1
12	CONEX 22 - 1/2" M	1	1
13	BLANK CAP CONEX 22	2	2
14	PROBE POD 1/2" M	1	1
15	CONEX 22 - 1/2" H	1	1
16	CONEX 22 H	0	2



FLAT ROOF STRUCTURES



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

REFERENCES

AS-200 DB	WITH FLAT ROOF STRUCTURE	AS03020120P
	WITH SLOPING ROOF STRUCTURE	AS03020120R
AS-300 DB	WITH FLAT ROOF STRUCTURE	AS03030218P
	WITH SLOPING ROOF STRUCTURE	AS03030218R