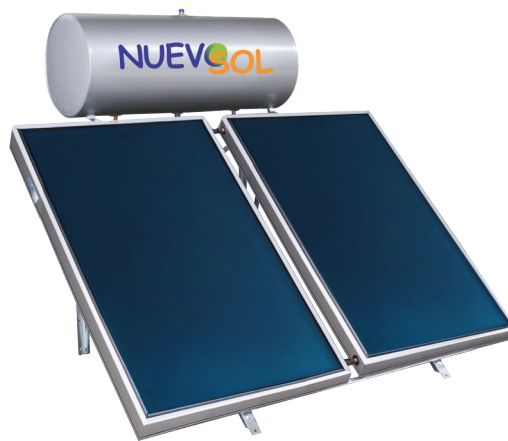


## Solar Collector's Technical Specifications

Attribute	Description
Profile	aluminum Al Mg Si 0,5, with treatment of electrostatic oven painting Seaside Class.
Absorber	titanium selective, laser welded.
Absorption coefficient	of the selective surface: $\alpha = 0,95$
Copper pipe headers	$\varnothing = 22 \text{ mm}$
Copper pipe risers	8mm thick
Glass cover	low iron prismatic tempered 3,2 mm thick
Transmissivity	$\tau = 0,93$
Rear insulation	rock-wall 30 mm thick with $\lambda = 0.035 \text{ W/m grd}$ (on 0°C)
Sealing materials	P.U. mastic, black silicone and EPDM rubber Limitations
Stagnation temperature	146 °C (selective) Maximum operational temperature
Maximum proposed working pressure	10 bars /1000kpa



## Solar Collector's Technical Characteristics

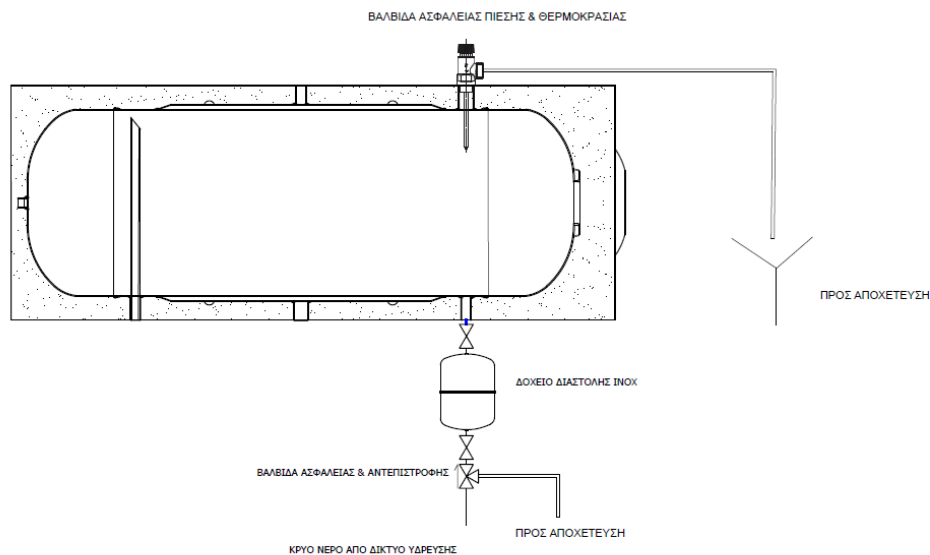
COLLECTOR'S TYPE	POSITIONING	DIMMENSIONS LxHxW mm	TOTAL SURFACE m <sup>2</sup>	GLASS SURFACE m <sup>2</sup>	VOLUME liters	WEIGHT kg
EPI 20 KNV	VERTICAL	1000 x 1500 x 85	1.5	1.36	1.05	16.6
EPI 30 KNV	VERTICAL	1300 x 1500 x 85	1.95	1.8	1.32	26.1
EPI 25 KNV	VERTICAL	1000 x 2000 x 85	2	1.83	1.43	26.6
EPI 25 ONV	HORIZONTAL	2000 x 1000 x 85	2	1.83	1.43	26.6
EPI 16 KNV	VERTICAL	1180 x 1900 x 85	2.24	2.07	1.43	29.2
EPI 16 ONV	HORIZONTAL	1900 x 1180 x 85	2.24	2.07	1.6	29.2
EPI 54 KNV	VERTICAL	1260 x 2000 x 85	2.53	2.34	1.7	33
EPI 54 ONV	HORIZONTAL	2000 x 1260 x 85	2.53	2.34	1.7	33
EPI 56 KNV	VERTICAL	1500 x 2000 x 85	3	2.81	1.98	57.3
EPI 56 ONV	HORIZONTAL	2000 x 1500 x 85	3	2.81	1.98	57.3

## Solar Water Heater Tank Technical Specifications

Attribute	Description
Interior	low carbon steel 2.5 mm thick, double enameled at 860 °C (DIN 4753/T3) double coating of 1.5 micro.
Heat exchanger	jacket (mantel) type of the above material, 1,5 mm thick, with wide exchange surface. The mantel surrounds the inner tank offering a better distribution of the thermal fluid and thus a better exchange.
Heat exchanger outlets	bronze F ¾''
Cylinder's outlets	bronze M ½ ''
Safety valves outlet	bronze F ½''
Patented diffusers	ENERGON®: one in the inlet of the jacket (mantel) forcing the thermal fluid coming from the collectors to be distributed in the mantel, another one in the cold water inlet of the inner tank, distributing the water coming from the water supply of the house throughout the tank, offering this way a better stratification. Practically, we have a slow reduction of the temperature of the water when used.
Insulation	expanded P.U. (52 kgr/m <sup>3</sup> ) 50 mm thick, CFC free.
P.U. thermal conductivity	0,0180 W/mK
Outer cover	aluminum, oven painting treatment, Seaside Class, for extra protection.
Side covers	aluminum, oven painting treatment, Seaside Class.
Protection against electrolysis (cathodic protection)	replaceable magnesium rod Ø 22 mm, L = 500 mm.
Inspection flange / Electrical heating element	Ø 140mm
Electrical heating element is included	with safety thermostat (overheating) of 1.5 – 4.0Kw.

## Solar Water Heater Tank Technical Specifications

TYPE		120	150	170	200	300
Diameter	mm	500	500	580	580	580
Length	mm	1120	1300	1200	1320	1820
Weight (empty)	kg	53	64	64	70	110
Volume exchanger (jacket)	L	8.25	11.2	11.9	12.1	23
Tank's Volume	L	115	140	160	189	295
Total tank's volume	L	123.25	151.2	171.9	201.1	318



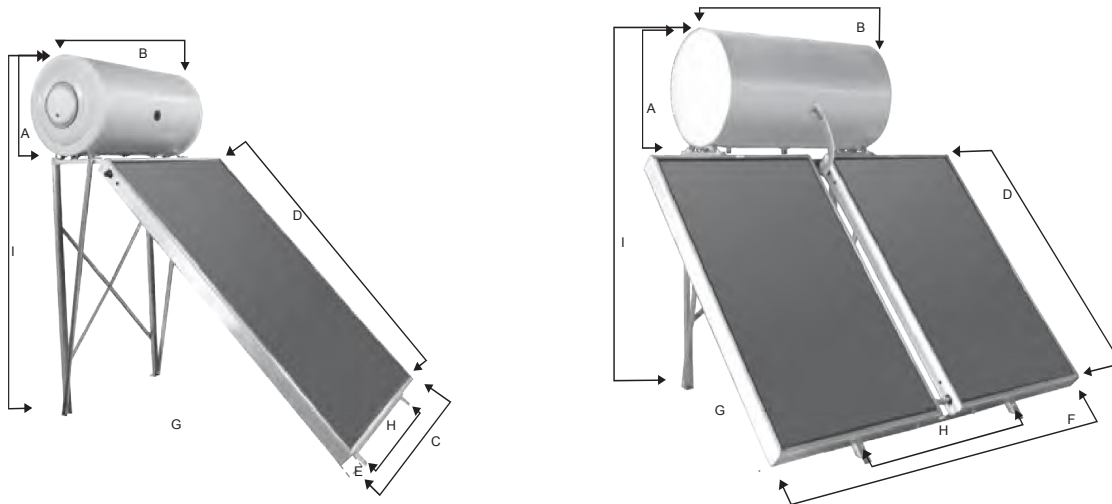
## Bracket limitations

Attribute	Description
Maximum snow load	56kg/m <sup>2</sup>
Maximum wind load	1.04kN/m <sup>2</sup>



SOLAR KEYMARK

## NS SOLAR THERMOSIPHON'S DIMENSIONS



TYPE	NUMBER OF PANELS x COLLECTOR'S SURFACE m <sup>2</sup>	SOLAR PANEL'S SURFACE m <sup>2</sup>	TANK'S DIMENSIONS		SOLAR COLLECTOR'S DIMENSIONS							WEIGHT kg
			mm		mm							
			A	B	C	D	E	F	G	H	I	
NS 80/1,50 KAΘ	1 X 1,50 m <sup>2</sup>	1,50	450	900	1000	1500	85	1000	1250	750	1460	75,00
NS 120/1,95 KAΘ	1 X 1,95 m <sup>2</sup>	1,95	500	1120	1300	1500	85	1300	1550	860	1750	91,00
NS 150/1,95 KAΘ	1 X 1,95 m <sup>2</sup>	1,95	500	1280	1300	1500	85	1300	1550	1080	1750	106,10
NS 150/2,24 KAΘ	1 X 2,24 m <sup>2</sup>	2,24	500	1280	1180	1900	85	1180	1830	1080	2000	109,00
NS 150/2,52 KAΘ	1 X 2,52 m <sup>2</sup>	2,52	500	1280	1260	2000	85	1260	2010	1080	1970	114,00
NS 170/2,52 KAΘ	1 X 2,52 m <sup>2</sup>	2,52	580	1210	1260	2000	85	1260	2010	1080	2130	114,00
NS 170/3,10 KAΘ	2 X 1,50 m <sup>2</sup>	3,00	580	1210	1000	1500	85	2200	1550	1080	1750	119,00
NS 200/3,00 KAΘ	1 X 3,00 m <sup>2</sup>	3,00	580	1280	1500	2000	85	1500	2010	1080	2080	143,00
NS 200/3,10 KAΘ	2 X 1,50 m <sup>2</sup>	3,00	580	1280	1000	1500	85	2200	1550	1080	1830	125,00
NS 200/4,00 KAΘ	2 X 2,00 m <sup>2</sup>	4,00	580	1280	1000	2000	85	2200	1865	1080	2080	139,00
NS 300/4,00 KAΘ	2 X 2,00 m <sup>2</sup>	4,00	580	1930	1000	2000	85	2200	1865	1080	2080	161,00