

FLAT PLATE SOLAR COLLECTORS

Powerz-On Flat Plate solar collectors have been developed for South Africa's unique climatic conditions and can be used in direct and indirect system configurations. Flat Plate solar collectors are hail resistant, aesthetically pleasing and very cost effective.



The Powerz-On Flat Plate solar collector range with "selective coated" fin material is comprised of 99.7% local content.

Model:	SAP	Eco-1.5B	Eco-2.2B	Eco-2.5B
System Application:	Sys	Thermosiphon	Thermosiphon / Pumped	Thermosiphon / Pumped
Aperture area:	m ²	1.49	2	2.3
Total collector size: (outer frame)	m ²	1.61	2.2	2.5
Pipe connections:	mm	22mm copper	22mm copper	22mm copper
Number of Ports:	No.	4	4	4
Freeze Protection:	NO	System Dependant	System Dependant	System Dependant
Dimensions: (D x W x H)	mm	1951 x 830 x 60	1782 x 1232 x 75	2035 x 1232 x 75
Working pressure:	kpa	400	400	400
Glazing: (tempered / toughened)	mm	4 (Low Iron Toughened)	4 (Low Iron Toughened)	4 (Low Iron Toughened)
Insulation materials:	type	Polyurethane	Mineral Rock Wool	Mineral Rock Wool
Fin Absorber:	type	Aluminium (Solar Absorber Coating)(0.40mm)	Aluminium (Solar Absorber Coating)(0.40mm)	Aluminium (Solar Absorber Coating)(0.40mm)
Frame materials:	type	Vacuum Formed Polymer Composite	Extruded, Powder coated , Profiled Aluminium	Extruded, Powder coated , Profiled Aluminium
Absorber coating:	type	Specially formulated Solar Selective Coating	Specially formulated Solar Selective Coating	Specially formulated Solar Selective Coating
Riser material:	Qty	5 - 15mm copper tubing	8 - 15mm copper tubing	8 - 15mm copper tubing
Header material:	Qty	2 - 22mm copper tubing	2 - 22mm copper tubing	2 - 22mm copper tubing
Installation footprint: (D x W)	mm	1951 x 923	1782 x 1350	2035 x 1350
Internal volume:	L	2.1	2.7	2.9
Dry weight:	Kg	22.5	41	46.5
Filled weight:	Kg	26.32	43.7	49.4
Packaged dimensions: (D x W x H)	mm	1971 x 950 x 80	1810 x 1360 x 100	2045 x 1360 x 100
Recommended standard capacity:	L	100 (Geyser)	150 (Geyser)	200 (Geyser)
SABS Q-factor:	MJ	10	19.5	25
Total & Use full Energy:	KW	2.9 Kw m ² /Day	4.35 Kw m ² /Day	5.81 Kw m ² /Day

