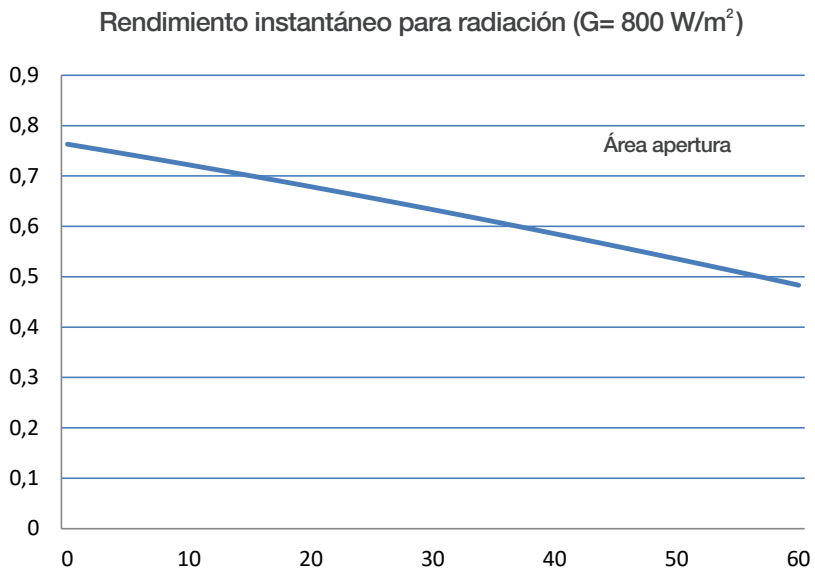
FLAT SOLAR COLLECTORS

FORTIUS



Technical Characteristics

EN 12975 Standard | EN ISO 9806 Standar

	Refered to aperture area and Tm	Refered to gross area and Tm
Zero-loss efficiency (n_{0b})	0,763	0,736
Loss factor K_1 (W / Km^2)	4,00	3,86
Loss factor K_2 (W / K^2 m^2)	0,011	0,011
Peak power (W)	1787	
Incident Angle Modier 50º	0,88	

Dimensions

External dimensions	
Length (mm)	2047
Width (mm)	1247
Thickness (mm)	49
Gross Area (m^2)	2,55
Aperture Area (m^2)	2,44

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F25 COLLECTOR

Absorber	
Type	Arp One-n
Fin material	Aluminum
Pipes Material	Copper
Type of welding	Laser
Number of manifolds pipes	2
Number of secondary pipes	11

External Diameter	
Manifold pipes (mm)	18
Secondary pipes (mm)	8

Coating	
Type	Ultraselective Tinox Robust
Base Material	Aluminum
Method of applying	Sputtering
Absorptance (%)	94
Emittance (%)	4

Insulation	
Type	Blanked
Material	Glass wool
Length (mm)	2019
Width (mm)	1219
Thickness (mm)	15
Conductivity (W/m^{2}k)	0,033

Frame	
Type	Extruded
Material	Aluminum AL 6063
Length (mm)	2047
Width (mm)	1047
Thickness (mm)	49

General Characteristics	
Cover	Solar tempered glass 3.2 mm
Optimal flow	30 l/hm^2
Empty weigth (kg)	34
Heat transfer fuid	Propilenglicol
Capacity (litres)	1,38
Maximum work pressure (bar)	8
Stagnation Temperature (ºC)	201
Heat capacity (J/K)	10893
Connections	Compress Fitting