

Technical Specification DF100 Series Solar Collectors

THERMOMAX DF100 DIRECT FLOW SYSTEMS				
Dimensions	DF100 - 2m ²		DF100 - 3m ²	
Absorber Area	2.004	m ²	3.02	m ²
Aperture Area	2.153	m ²	3.228	m ²
Length / Width / Height	1996 / 1418 / 97	mm	1996 / 2127 / 97	mm
Fluid Volume (In Manifold)	3.8	l	5.6	l
Inlet and Outlet Dimensions	22	mm	22	mm
Weight (Empty)	54.8	kg	81.4	kg

Mounting				
Recommended Inclination	0 - 90	°	0 - 90	°
Orientation	Horizontal or Vertical		Horizontal or Vertical	

Efficiency (Absorber Area)				
η ₀	0.83		0.832	
a ₁	1.53	W/m ² K	1.14	W/m ² K
a ₂	0.0063	W/m ² K ²	0.0144	W/m ² K ²

Hydraulics				
Recommended Flow	160	l/h	240	l/h
Minimum Flow	120	l/h	180	l/h
Maximum Flow	300	l/h	450	l/h
Maximum Operating Pressure	8	Bar	8	Bar
Stagnation Temperature	286	°C	286	°C
Heat Transfer Fluid	Water/Propylene Glycol		Water/Propylene Glycol	

Materials of Manufacture				
Absorber	Copper		Copper	
Coating	Selective Coating		Selective Coating	
Absorbance	95	%	95	%
Emissivity	5	%	5	%
Mounting frame and clips	Stainless Steel, Aluminium, EPDM		Stainless Steel, Aluminium, EPDM	
Glass Transmission	92	%	92	%
Vacuum	<10 ⁻⁸	Bar	<10 ⁻⁸	Bar
Quality Certification / Solar Keymark	Solar Keymark EN12975		Solar Keymark EN12975	

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