

## DF100

Technical Specification DF100			
	DF100 - 1m <sup>2</sup>	DF100 - 2m <sup>2</sup>	DF100 - 3m <sup>2</sup>
<b>Number of Tubes</b>	10	20	30
<b>Dimensions</b>			
Absorber Area	1.002m <sup>2</sup>	2.004m <sup>2</sup>	3.020m <sup>2</sup>
Overall Dimensions	1996 x 709 x 97mm	1996 x 1418 x 97mm	1996 x 2127 x 97mm
Width of Manifold	709mm	1418mm	2127mm
Length (Tube and Manifold)	1996mm	1996mm	1996mm
Depth	97mm	97mm	97mm
Aperture Area	1.076m <sup>2</sup>	2.153m <sup>2</sup>	3.228m <sup>2</sup>
Fluid Volume (In Manifold)	1.9 Ltr	3.8 Ltr	5.6 Ltr
Inlet and Outlet Dimensions	22mm	22mm	22mm
Weight (Empty)	25kg	55kg	81kg
<b>Mounting</b>			
Recommended Inclination	0-90°	0-90°	0-90°
<b>Operating Data</b>			
Efficiency	Based on Aperture	Based on Aperture	Based on Aperture
eta 0	0.781	0.773	0.779
k1	1.44 W/m <sup>2</sup> K	1.43 W/m <sup>2</sup> K	1.07 W/m <sup>2</sup> K
k2	0.0062 W/m <sup>2</sup> K <sup>2</sup>	0.0059 W/m <sup>2</sup> K <sup>2</sup>	0.0135 W/m <sup>2</sup> K <sup>2</sup>
<b>Test Report</b>			
Performance Test Report	BLG 1909	BLG 10606	BLG 10706
<b>Quality Test Report</b>			
Flow Rate			
Rated	80 Ltr / h	160 Ltr / h	240 Ltr / h
Minimum	60 Ltr / h	120 Ltr / h	180 Ltr / h
Maximum	150 Ltr / h	300 Ltr / h	480 Ltr / h
Maximum Operating Pressure	8 Bar	8 Bar	8 Bar
Stagnation Temperature	286°C	286°C	286°C
Heat Transfer Fluid	Water/Glycol	Water/Glycol	Water/Glycol
<b>Materials</b>			
Absorber	Copper	Copper	Copper
Coating	Selective Coating	Selective Coating	Selective Coating
Absorbance	95%	95%	95%
Emissivity	5%	5%	5%
Mounting Frame and Clips	Stainless Steel, Aluminium, EPDM	Stainless Steel, Aluminium, EPDM	Stainless Steel, Aluminium, EPDM
Glass	Low Iron - Transm. 0.92	Low Iron - Transm. 0.92	Low Iron - Transm. 0.92
Vacuum	Less than 10 <sup>-6</sup> mbar	Less than 10 <sup>-6</sup> mbar	Less than 10 <sup>-6</sup> mbar
Quality Certification / Solar Keymark	Yes	Yes	Yes