

wunder^{Drain}

Serpentine Collector

Wunder Drain by Solimpeks is a high performance flat collector sealed with EPDM, glazed with low iron tempered glass and used titanium coated copper inside. The double meander absorber optimizes heat transfer and allows drain back system use and 10 collectors to be connected in a single row.



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Spesification / Type

Wunder CLS 2510 DRAIN

Wunder CLS 2108 DRAIN

Dimensions	1988 x 1218 x 90 mm	1988 x 1041 x 90 mm
Casing Material	Electrostatic Painted Aluminium Case	Electrostatic Painted Aluminium Case
Weight	44 kg	37,2 kg
Sealing Material	EPDM & Silicone & ALUMINUM FRAME	EPDM & Silicone & ALUMINUM FRAME
Gross Area	2.42 m ²	2.07 m ²
Aperture Area	2.25 m ²	1.92 m ²
Absorber Area	2.23 m ²	1.90 m ²
Absorber Material	Full - face Selective Coated Copper	Full - face Selective Coated Copper
Thickness	0,20 mm	0,20 mm
Absorptance	96%	96%
Emittance	3%	3%
Welding Method	Ultrasonic welding	Ultrasonic welding
Heat Carrier Volume	1.88 liter	1.60 liter
Diameter of Absorber Tube	10 mm	10 mm
Absorber Tube Wall Thickness	0,45 mm	0,45 mm
Diameter of Header Tube	18 mm	18 mm
Header Tube Wall Thickness	0,70 mm	0,70 mm
Number of Tubes	1	1
Tube pitch (mm)	92 mm	92 mm
Glass Material	Low Iron Tempered Glass	Low Iron Tempered Glass
Transmittance of Glass	91%	91%
Thickness of Glass	4 mm	4 mm
Insulation Material	Rock wool	Rock wool
Thermal Conductivity	0.037 W/(mK)	0.037 W/(mK)
Heat Capacity of wool	0.84 kJ/(kgK)	0.84 kJ/(kgK)
Density of wool	40 density	40 density
Thickness of wool	40 mm	40 mm
Stagnation Temperature at 1000 W/m ² and 30 °C	203 °C	203 °C
Max. Operation Pressure	10 bar	10 bar
Test Pressure	20 bar	20 bar
Pressure Loss	1.8 bar	1.6 bar
Nominal Flow Rate	120 liter/h	105 liter/h
Base Sheeting	Embossed - finished Aluminium	Embossed - finished Aluminium
Mounting Mode	Inroof, onto-roof, flat roof	Inroof, onto-roof, flat roof
Absorber tube (mm)	21, 6 meters total lenght	18,1 meters total lenght
Inner diameter	9 mm	9 mm
Outer diameter	10 mm	10 mm
Header tube (mm)	1272 mm x 2	1095 mm x 2

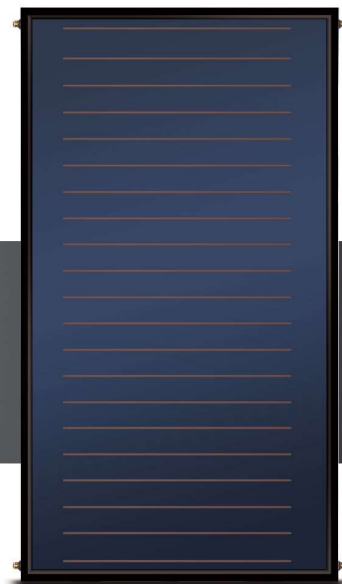
On-Roof



In-Roof



Flat-Roof



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