



# Wunder CNP

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In the Wunder CNP series, on which aluminum top frame, EPDM rubber and silicone are used for case finishing and 4 mm thick normal iron tempered prismatic glasses are used for glazing. In this series, 50 mm thick glasswool is the insulation and 0,12 mm thick black painted copper sheet is the absorber surface.



**Wunder CNP 2510**
**Wunder CNP 2108**

Dimensions	1988x1218x90 (mm)	1988x1041x90 (mm)
Casing Material	Electrostatic Painted Aluminium Case	Electrostatic Painted Aluminium Case
Weight	41.5 kg	36,5 kg
Sealing Material	EPDM & Silicone & Aluminium Frame	EPDM & Silicone & Aluminium Frame
Gross Area	2.42 m <sup>2</sup>	2.07 m <sup>2</sup>
Aperture Area	2.27 m <sup>2</sup>	1.93 m <sup>2</sup>
Absorber Area	2.20 m <sup>2</sup>	1.87 m <sup>2</sup>
Absorber Material	Black Painted Copper	Black Painted Copper
Absorber Thickness	0.12 mm	0.12 mm
Absorptance	%74	%74
Emittance	%26	%26
Welding Method	Ultrasonic Welding	Ultrasonic Welding
Heat Carrier Volume	1.27 Liter	1.27 Liter
Diameter of Absorber Tube	8,0 mm / 10 mm / 12.7 mm	8,0 mm / 10 mm / 12.7 mm
Absorber Tube Wall Thickness	0.45 mm	0.45 mm
Diameter of Header Tube	18 mm / 22 mm / 24 mm	18 mm / 22 mm / 24 mm
Header Tube Wall Thickness	0.70 mm	0.70 mm
Number of Tube	10	9
Tube Pitch (mm)	110 mm	110 mm
Glass Material	Normal Iron Tempered Glass	Normal Iron Tempered Glass
Transmittance of Glass	% 87.50	%87.50
Thickness of Glass	4 mm	4 mm
Insulation Material	Glass Wool	Glass Wool
Thermal Conductivity	0.040 W/(mK)	0.040 W/(mK)
Heat Capacity of Wool	0.84 KJ/(kgK)	0.84 KJ/(kgK)
Density of Wool	50 Kg / m <sup>3</sup>	50 Kg / m <sup>3</sup>
Thickness of Wool	40 mm	40 mm
Stagnation Temperature at 1000 W/m <sup>2</sup> and 30 °C	232 °C	211 °C
Maximum Operation Pressure	10 bar	10 bar
Test Pressure	25 bar	25 bar
Nominal Flow Rate	120 Liter / H	105 Liter / h
Base Sheathing	Embossed - finished Aluminium	Embossed - Finished Aluminium
Mounting Mode	Inroof, onto-roof, flat roof	Inroof, onto-roof, flat roof

