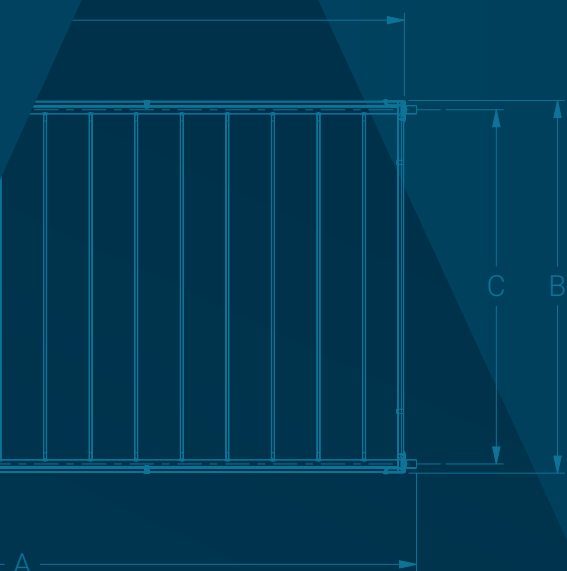




C

D



SOLAR THERMAL **COLLECTORS**

VENMAN flat solar thermal collectors have an undivided selective coating or Strip, powerful insulation and have been designed with high thermal capacity and low pressure drop. Further down you will find all the technical features of the available models.

H81 Collector



TECHNICAL SPECIFICATIONS

TECHNICAL DATA	MEASUREMENT UNIT (SI)	COLLECTOR'S CHARACTERISTICS H81 - FULL FACE			
TYPE		H81 – 15	H81 – 20	H81 – 22	H81 – 25
Extrenal dimensions (height × width × thickness)	mm	1460×960×80	1960×960×80	1960×1040×80	1960×1210×80
Gross area	m ²	1,40	1,88	2,04	2,37
Aperture area	m ²	1,35	1,83	2,01	2,33
Absorber capacity	L	1,30	1,60	1,70	1,90
Compact Tray / thickness	mm	Pre-painted galvanized metal sheet / 0.5			
Glass		Clear, tempered / 3,2mm			
Insulation (Back and side) thickness / density	mm / Kg/m ³	Mineral glass wool 30mm / density 24 kg/m ³ . Product specifically designed for collectors, with very low conductivity to avoid losses. It is certified that it prevents glass fogging of the collector.			
Absorber		Copper harp-type, Full Face Aluminum Selective Surface. Laser welding.			
Absorbtion	%	95			
Emission	%	5			
Header copper tube Ø / thickness	mm	Ø 22 / 0,70			
Riserer copper tube Ø / thickness	mm	Ø 8 / 0,40			
Number of vertical risers	No.	10	10	10	11
Maximum operating pressure	Bar	10			
Heat transfer mean		Antifreeze and water solution (<i>monopropylene glycol</i>)			
Layout		Vertical			
Weight (empty & packed)	Kg	26	33	34	41





AVAILABLE ABSORBER TYPE



DARK BLUE SELECTIVE



LIGHT BLUE SELECTIVE

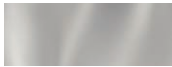


BLACK NON-SELECTIVE

AVAILABLE EXTERNAL MATERIALS



MAGNETIS



ALUMINIUM



PRE-PAINTED GALVANIZED STEEL SHEET

AVAILABLE COLOURS

> PRE-PAINTED GALVANIZED STEEL SHEET



RAL 9006

RAL 9007



RAL 9010

> ALUMINIUM



RAL 9005

RAL 9006

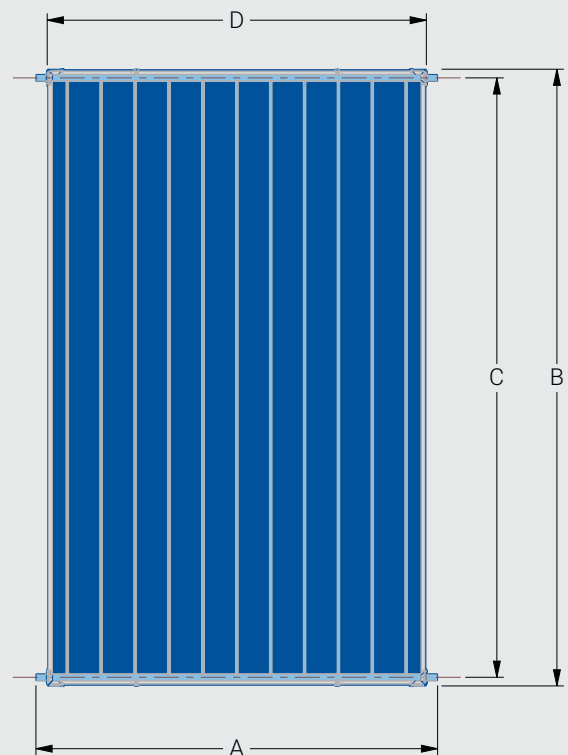


H81 – 15	
A	1030 mm
B	1460 mm
C	1405 mm
D	960 mm

H81 – 20	
A	1030 mm
B	1960 mm
C	1910 mm
D	960 mm

H81 – 22	
A	1110 mm
B	1960 mm
C	1910 mm
D	1040 mm

H81 – 25	
A	1280 mm
B	1960 mm
C	1910 mm
D	1210 mm



H81 MP Collector



TECHNICAL SPECIFICATIONS

TECHNICAL DATA	MEASUREMENT UNIT (SI)	COLLECTOR'S CHARACTERISTICS H81 MP - FULL FACE	
TYPE		H81 MP – 20	H81 MP – 25
Extrenal dimensions (height × width × thickness)	mm	1970×965×80	1970×1220×80
Gross area	m ²	1,90	2,40
Aperture area	m ²	1,80	2,29
Absorber capacity	L	1,60	1,90
Compact Tray / thickness	mm	Pre-painted galvanized metal sheet / 0.5	
Glass		Low iron, mat prismatic, extra clear, tempered / 3,2mm	
Insulation (Back and side) thickness / density	mm / Kg/m ³	Mineral glass wool 30mm / density 24 kg/m ³ . Product specifically designed for collectors, with very low conductivity to avoid losses. It is certified that it prevents glass fogging of the collector.	
Absorber		Copper harp-type, Full Face Aluminum Selective Surface. Laser welding.	
Absorbtion	%	95	
Emission	%	5	
Header copper tube Ø / thickness	mm	Ø 22 / 0,70	
Riserer copper tube Ø / thickness	mm	Ø 8 / 0,40	
Number of vertical risers	No.	10	11
Maximum operating pressure	Bar	10	
Heat transfer mean		Antifreeze and water solution (<i>monopropylene glycol</i>)	
Layout		Vertical	
Weight (empty & packed)	Kg	33	41





AVAILABLE ABSORBER TYPE



DARK BLUE SELECTIVE



LIGHT BLUE SELECTIVE

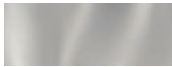


BLACK NON-SELECTIVE

AVAILABLE EXTERNAL MATERIALS



MAGNETIS



ALUMINIUM



PRE-PAINTED
GALVANIZED
STEEL SHEET

AVAILABLE COLOURS

> PRE-PAINTED
GALVANIZED
STEEL SHEET



RAL 9006

RAL 9007



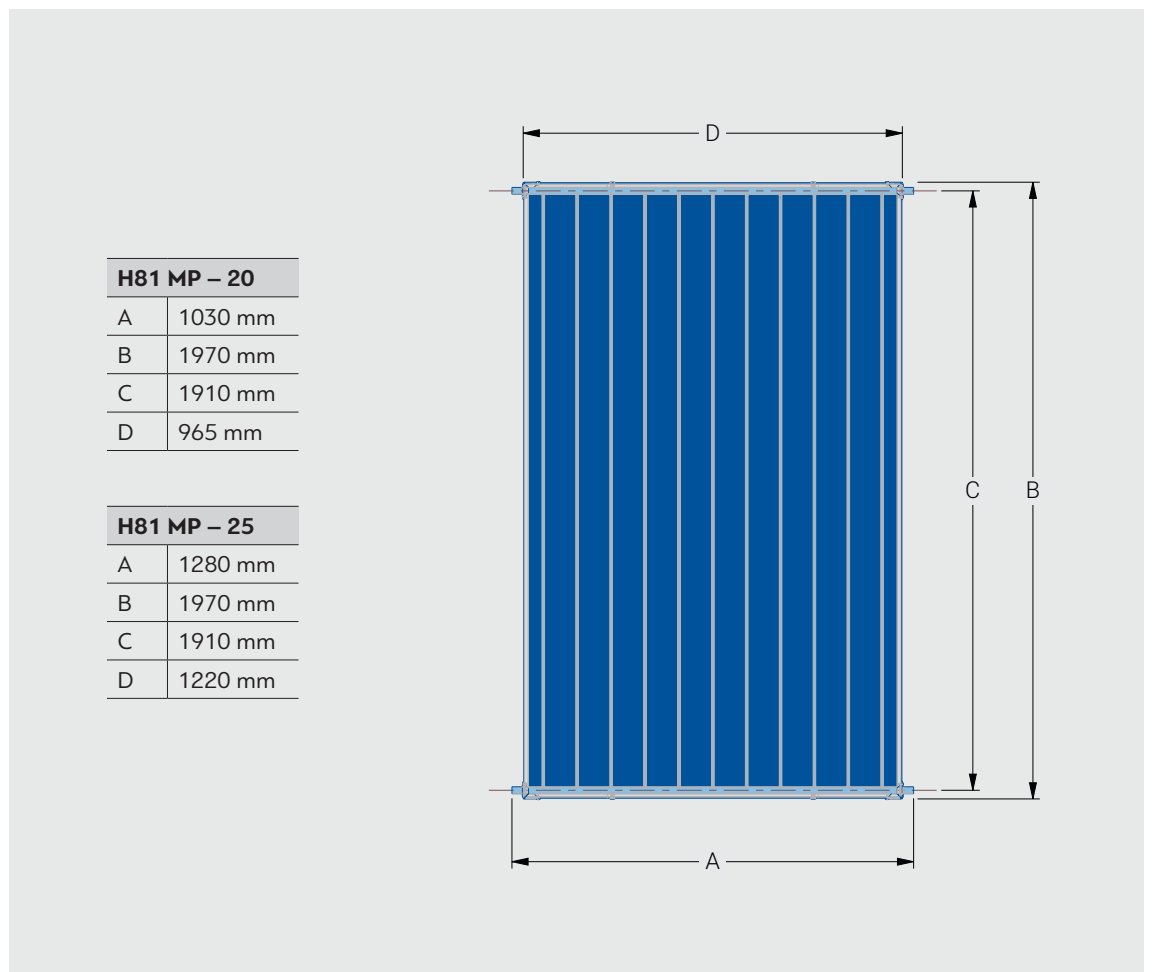
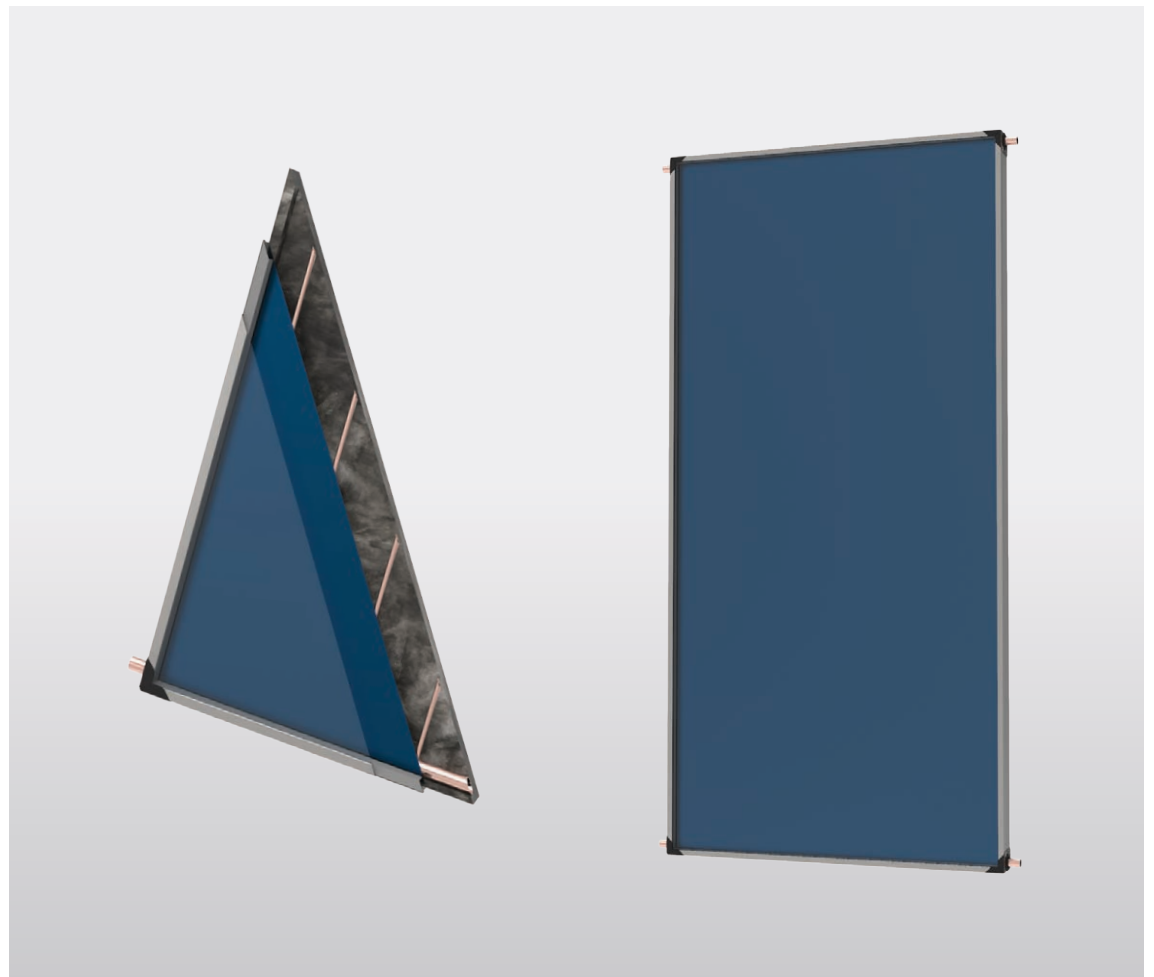
RAL 9010

> ALUMINIUM



RAL 9005

RAL 9006



TECHNICAL SPECIFICATIONS

TECHNICAL DATA	MEASUREMENT UNIT (SI)	COLLECTOR'S CHARACTERISTICS H81 - FULL FACE	
TYPE		H81 – 20	H81 – 25
Extrenal dimensions (height × width × thickness)	mm	960×1960×80	1210×1960×80
Gross area	m ²	1,88	2,38
Aperture area	m ²	1,83	2,33
Absorber capacity	L	1,93	2,13
Frame / thickness	mm	Pre-painted galvanized metal sheet / 0,5	
Glass		Clear, tempered / 3,2mm	
Insulation (Back and side) thickness / density	mm / Kg/m ³	Mineral glass wool 30mm / density 24 kg/m ³ . Product specifically designed for collectors, with very low conductivity to avoid losses. It is certified that it prevents glass fogging of the collector.	
Absorber		Copper harp-type, Full Face Aluminum Selective Surface. Laser welding.	
Absorbtion	%	95	
Emission	%	5	
Header copper tube Ø / thickness	mm	Ø 22 / 0,70	
Riserer copper tube Ø / thickness	mm	Ø 8 / 0,40	
Number of vertical risers	No.	16	17
Maximum operating pressure	Bar	10	
Heat transfer mean		Antifreeze and water solution (<i>monopropylene glycol</i>)	
Layout		Horizontal	
Weight (empty & packed)	Kg	33	42



AVAILABLE ABSORBER TYPE



DARK BLUE SELECTIVE



LIGHT BLUE SELECTIVE

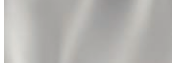


BLACK NON-SELECTIVE

AVAILABLE EXTERNAL MATERIALS



MAGNELIS



ALUMINIUM



PRE-PAINTED
GALVANIZED
STEEL SHEET

AVAILABLE COLOURS

> PRE-PAINTED
GALVANIZED
STEEL SHEET



RAL 9006



RAL 9007



RAL 9010

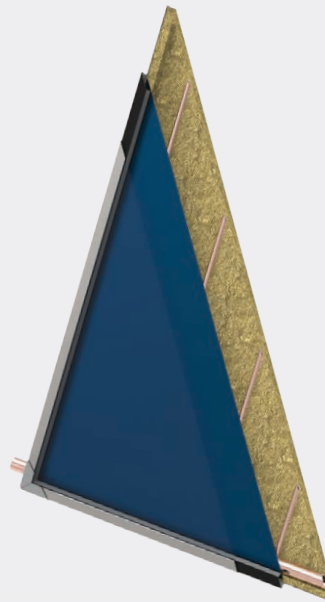
> ALUMINIUM



RAL 9005

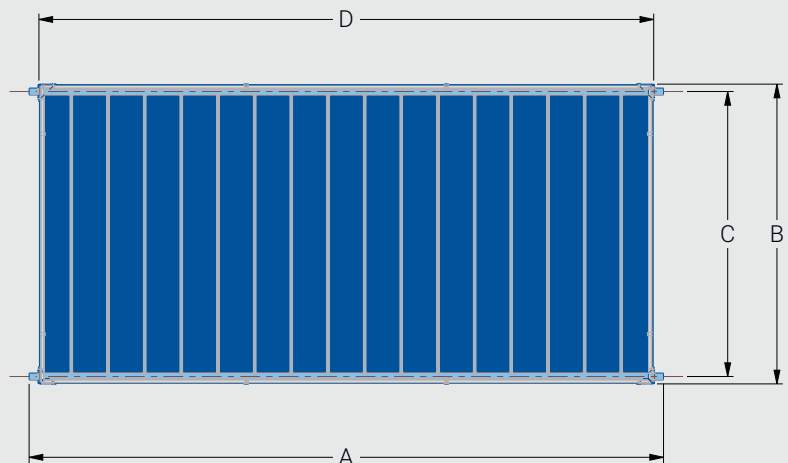


RAL 9006



H81S – 20	
A	2028 mm
B	960 mm
C	911 mm
D	1960 mm

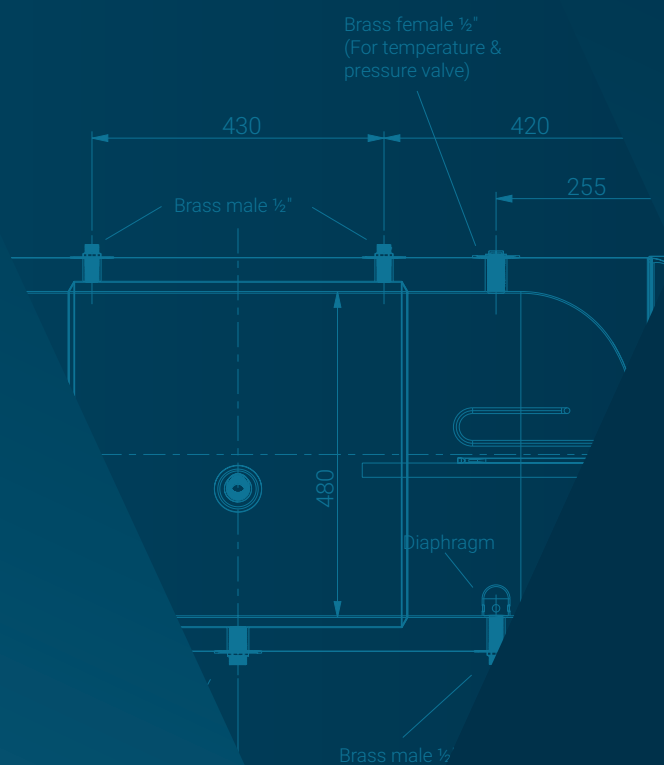
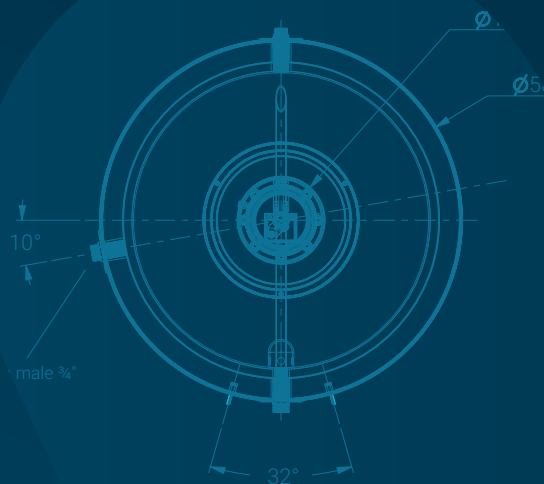
H81S – 25	
A	2028 mm
B	1210 mm
C	1161 mm
D	1960 mm







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