

SONNENKRAFT IN-ROOF COLLECTOR IDMK-AL



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EINFACH

Durch die unterschiedlichen Modulgrößen und die Möglichkeit, diese sowohl neben als auch übereinander zu kombinieren, haben wir für jedes Dach die ideale Lösung.

EFFIZIENT

Der IDMK-AL erreicht dank der hochselektiven Absorber-Vakuumbeschichtung sehr schnell hohe Mediumtemperaturen.

EXTRA

Die Verbindungen können sowohl gelötet als auch verschraubt werden.



In-roof collector **IDMK-AL**

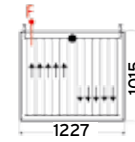
The in-roof module collector IDMK is optimised for easy self-mounting. This type of installation is recommended where crane mounting is not possible. The added option of combining collectors alongside and above one another provides the ideal solution for every roof.

Specifications IDMK-AL

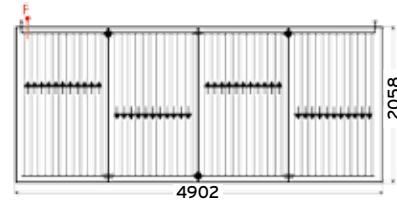
Name		IDMK12-AL	IDMK25-AL	IDMK50-AL	IDMK75-AL	IDMK100-AL
Collectortype		pre-assembled collector				
Mounting type		in-roof				
Gross area	m ²	1,25	2,52	5,05	7,57	10,10
Aperture area	m ²	1,10	2,32	4,64	6,96	9,28
Absorber area	m ²	1,08	2,28	4,56	6,84	9,12
Length	mm	1015	2058	2058	2058	2058
Width (incl. Connection)	mm	1227	1227	2454	3681	4908
Height	mm	105	105	105	105	105
Weight empty	kg	25	49	98	147	196
Collector capacity	l	1,2	1,7	3,37	5,06	6,75
Max. operating pressure	bar	10				
Idle temperature	° C	191				
Recommended throughput	l/m ² h	15 - 40				
Collector field piping		max. 6 pcs. in series		-	-	-
Min. collector incline	°	20				
Max. collector incline	°	65				
Connections		1" female screw connection or Cu22				
Absorber		Full surface aluminium absorber with highly-selective vacuum coating				
Hydraulic design		Harp				
Absorption (α) / Emission (ε)		0,95 / 0,05				
Collector housing		wooden frame with aluminium section, 4 mm hardboard backplate				
Heating insulation		50 mineral wool				
Collector glazing		3.2 toughened, low iron solar safety glass				
Number of glass plates		1	1	2	3	4
Efficiency (Aperture) η _{0a}		0,765	0,776	0,765		
Heat transfer coefficient a ₁	W/(m ² K)	3,951	3,293	3,951		
Temperature dependent heat transfer coefficient a ₂	W/(m ² K ²)	0,011	0,011	0,011		
Angle correction factor K _{50°}		0,93				
Solar Keymark Nr.		011 - 7S1551 F			011 - 7S1714 F	
Collector efficiency acc. to ErP Lot1 dT 40K@1000W/m ²	%	59	63	59		

Dimensions IDMK-AL

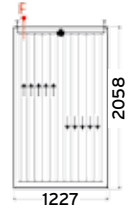
IDMK12-AL



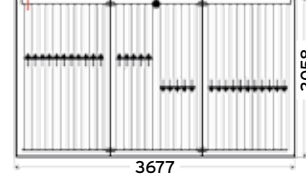
IDMK100-AL



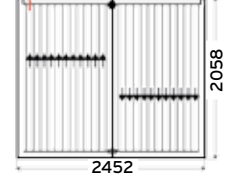
IDMK25-AL



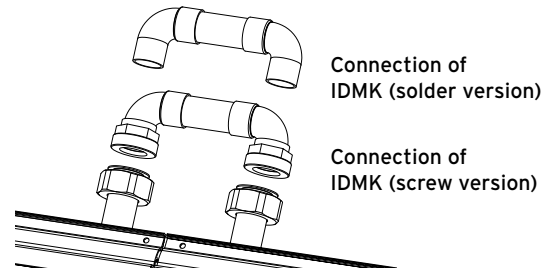
IDMK75-AL



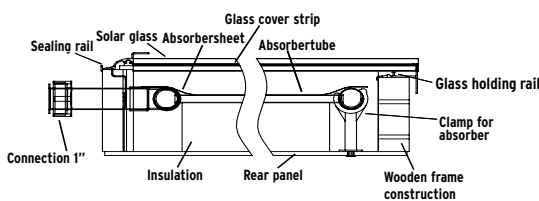
IDMK50-AL



Connections IDMK-AL



Cross section IDMK



IDMK Sheet metal edgings



Sheet metal edging tile



Roof shingle sheet metal edging



Plain tile sheet metal edging



Features of in roof module collector IDMK

- Simple and quick self-assembly
- Easily portable module
- Perfect integration into roof design
- Excellent price/performance ratio
- Full-surface, highly-selective coated and structured copper absorber
- Connection suitable for screw- and solder mounting

