

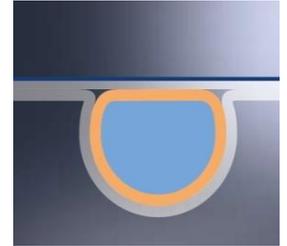
Solar thermal high performance collector



HLK pro-line v2.1

Application :

- ▶ High performance solar plant
- ▶ developed for ERS-ground storage
- ▶ On-roof, in-roof and flat roof installation
- ▶ Family homes, industrial plants and hotel
- ▶ New construction and refurbishment



- ▶ Advanced safety against hail impact through 4 mm solar glass thickness: according to DIN EN 12975-2
- ▶ Optimized connection between pipes and absorber through heat transmission technology
- ▶ Drainage channel and ventilation system for high performance through fast drying
- ▶ Efficient installation of large collector arrays and large plants
- ▶ 360° pipe enclosure for high-efficient heat transfer
- ▶ Simple and rapid assembly system
- ▶ Solar energy production 1083kWh
- ▶ Optimized dead-time behaviour
- ▶ Collector size 2,53 m²
- ▶ Outstanding design

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Keymark**



HLK pro-line v2.1

	2,5 H	2,5 Q
Application		
Domestic hot water		yes
Solar thermal system with support of heating (1-or 1-2 family home)		yes
ERS-ground storage system / solar plants		yes
Type of installation		
On-roof installation		yes
Flat-roof installation		yes
In-roof installation	yes	no
Facing installation	on request	no
Mounting / orientation	vertical adjoined	horizontal adjoined
Max. number of collectors in a row	8	8
Dimensions and weight		
Gross area		2,53 m ²
Aperture area		2,33 m ²
External dimensions (L x W x H)	2104 x 1204 x 80 mm	1204 x 2104 x 80 mm
Weight (empty)		38 kg
Key performance indicator		
Nominal heat output		1,9 kW
Efficiency		0,773
Thermal loss coefficient a1		3,65 W/m ² K
Thermal loss coefficient a2		0,010 W/m ² K ²
Yield at 50°C, location Würzburg		1083 kWh
Collector yield at 1000W and Tm-Ta = 0 K		1810 Wpeak
Hydraulic system / conduiting		
Piping		harp
Orientation	vertical	horizontal
Hydraulic connection Cu-Pipe		18 mm
Number of hydraulic connections		4
Type of connection		clamp ring connector with omega arch
External compensation		
Position hydraulic connection	lateral at the long side (2x)	lateral at the short side (2x)
Absorber		
Coating absorber		high selective
Absorption		0,95
Emission		0,05
Absorber material		aluminium
Absorber pipes		copper
Joining technology absorber sheet/pipes		thermal conduction technology
Data hydraulic system		
Acceptable heat transfer medium		BES solar liquid (water-glycol mixture)
Heat carrier volume		0,8 l
Minimum volume collector array		150 l/h
Acceptable positive operating pressure		10 bar
Dead-time temperature (Gs=1000 W/m ² ; Ta=30 °C)		200 °C

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	2,5 H	2,5 Q
Front panel		
Solar glass	low iron, highly light-transmissive	
Transmission factor	>91%	
Size	4,0 mm	
Insulation		
Insulation material	mineral wool	
Insulation size	35 mm	
Housing		
Frame material	aluminium	
Sealing	EPDM	
Rear panel	aluminium	
Frame colour	frame color Eloxal silver, similar to RAL 7035	
Testing according to	DIN EN 12975-1:2006 + A1 :2010 DIN EN ISO 9806:2018	
Register number	011-7S3064 F	
Product no.	15 10 0025	15 11 0025



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