

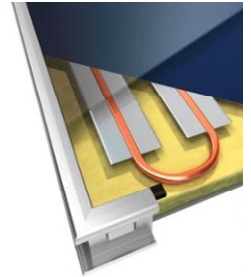
# Solar thermal high performance collector



## IS-HLK

### 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
- ▶ Minimum solar energy production 525kWh/m<sup>2</sup>
- ▶ Simple and rapid assembly system
- ▶ Optimized dead-time behaviour
- ▶ Collector size up to 2,69 m<sup>2</sup>
- ▶ Outstanding design

Certified to Keymark



## IS-HLK

	XLS	XLW	L
<b>Application</b>			
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		

<b>Type of installation</b>			
On-roof installation	yes		no
Flat-roof installation	yes		
In-roof installation	yes	no	
Facing installaion	on request	no	
Mounting / orientation	vertical adjoined	horizontal adjoined	
Max. number of collectors in a row	8	8	5

<b>Dimensions and weight</b>			
Gross area	2,69 m <sup>2</sup>		1,19 m <sup>2</sup>
Absorber area	2,52 m <sup>2</sup>		1,13 m <sup>2</sup>
Aperture area	2,49 m <sup>2</sup>	2,51 m <sup>2</sup>	1,12 m <sup>2</sup>
External dimentions (L x W x H)	2152 x 1252 x 80 mm	1252 x 2152 x 80 mm	552 x 2152 x 80 mm
Weight (empty)	48 kg		23 kg

<b>Key performance indicator</b>			
Nominal heat output	2,0 kW		0,95 kW
Efficiency	79%	81%	81%
Thermal loss coefficient a1	3,818 W/m <sup>2</sup> K	3,900 W/m <sup>2</sup> K	
Thermal loss coefficient a2	0,017 W/m <sup>2</sup> K <sup>2</sup>	0,013 W/m <sup>2</sup> K <sup>2</sup>	

<b>Hydraulic system / conduiting</b>			
Piping	collection pipe meander		meander
Orientation	vertical	horizontal	
Hydraulic connection Cu-Pipe	18 mm		12 mm
Number of hydraulic connections	4		2
Type of connection	clamp ring connector		
External compensation	with compensator connector		no
Position hydraulic connection	lateral at the long side (2x)		lateral at the short side (1x)

<b>Absorber</b>			
Coating absorber	high selective		
Absorption	95%		
Emission	5%		
Absorber material	aluminium		
Absorber pipes	copper		
Joining technology absorber sheet/pipes	thermal conduction technology		

<b>Data hydraulic system</b>			
Acceptable heat transfer medium	IMMOSOLAR solar liquid (water-glycol mixture)		
Heat carrier volume	2,2 l		1,0 l
Minimum volume collector array	150 l/h		
Acceptable positive operating pressure	10 bar		
Dead-time temperature clime class A (100 W/m <sup>2</sup> ; 30 °C)	210 °C		
Dead-time temperature clime class B (110 W/m <sup>2</sup> ; 40 °C)	235 °C		

## IS-HLK

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<b>Front panel</b>			
Solar glass	low iron, highly light-transmissive		
Transmission factor	>91%		
Size	4,0 mm		
<b>Insulation</b>			
Insulation material	mineral wool		
Insulation size	35 mm		
<b>Housing</b>			
Frame material	aluminium		
Sealing	EPDM		
Rear panel	aluminium		
Frame colour	frame color Eloxal silver, similar to RAL 7035		
<b>Collector minimum output</b>	525 kWh/m <sup>2</sup> a		-
Testing	Keymark EN 12975		-
Register number	011-7S2241F	011-7S2197F	-
<b>Product no.</b>	15 10 0027	15 11 0027	15 11 0012



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BES BuildingEnergySolutions GmbH  
Robert-Koch-Str. 50  
D-55129 Mainz  
Tel.: +49 (0) 6131 25 06 17-0  
Fax: +49 (0) 6131 25 06 17-9

**E-Mail: [info@bes-eu.com](mailto:info@bes-eu.com)**  
**[www.bes-eu.com](http://www.bes-eu.com)**

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