

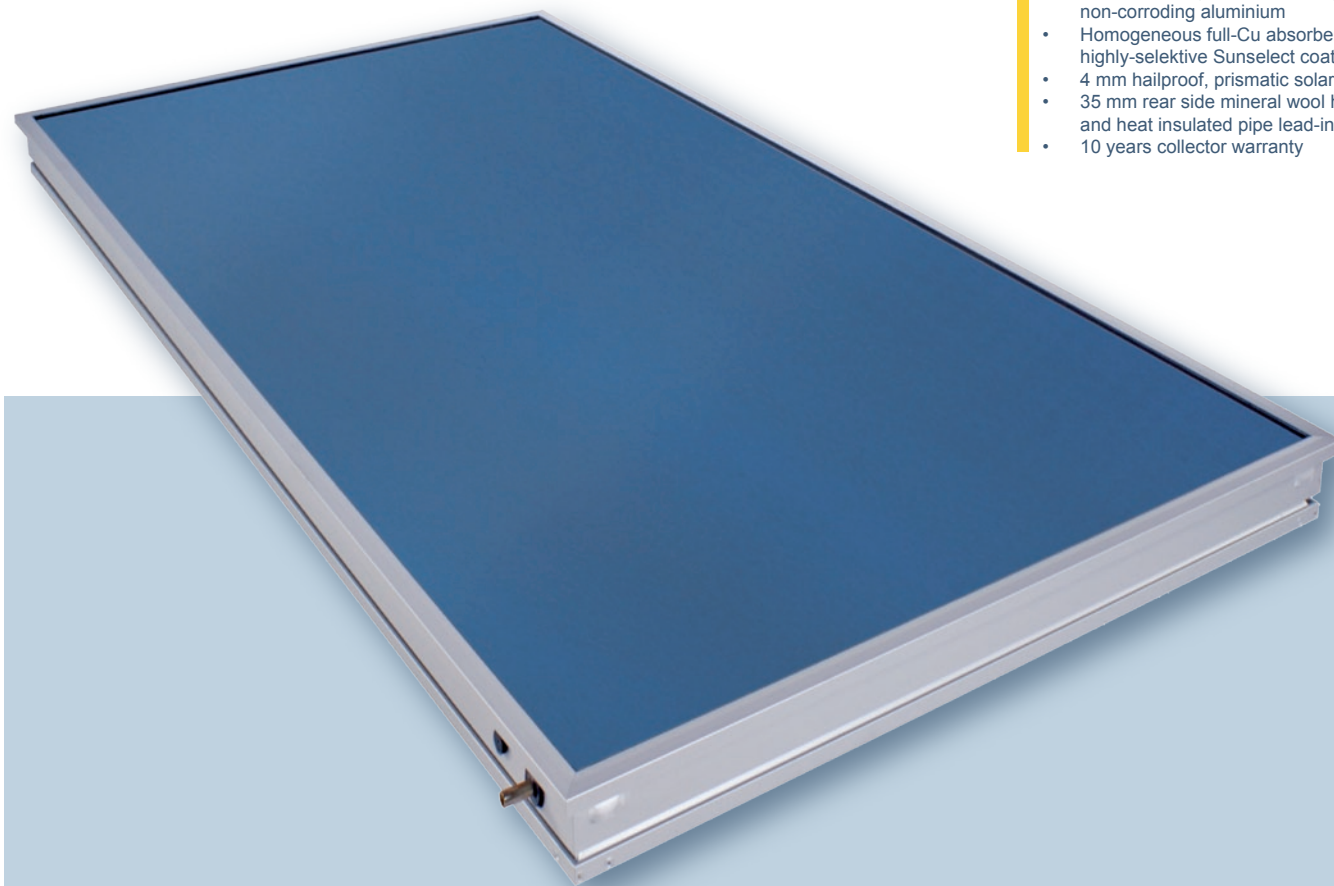
# Flat-Plate Collector AS-FK 2.3

Warming the Future

## Advantages at a glance

High performance due to extensive fabrication experience, high tech-production and first-class materials

- Vertical and horizontal setup in connection with on-roof, in-roof, and flat roof assembly kits possible
- Self-supporting collector casing made of non-corroding aluminium
- Homogeneous full-Cu absorber with highly-selektive Sunselect coating
- 4 mm hailproof, prismatic solar safety glass
- 35 mm rear side mineral wool heat insulation and heat insulated pipe lead-in
- 10 years collector warranty



## Certification

The flat-plate collector AS-FK 2.3 is Solar Keymark certified in accordance with DIN EN 12975 and 12976 under the

registration number 011-7S446 F

and meets all requirements concerning quality, security, environmental protection and durability. Therefore this collector is in accordance with the funding guidelines of the German BAFA and European support programs.

**AS Solar**  
Lighting the Way.

# Flat-Plate Collector AS-FK 2.3

Warming the Future



Competent solar specialist:

## The Collector

This high performance hot water collector is the core of a solar energy system and transfers the incoming solar radiation into heat. The collector can be fitted vertically or horizontally into several roof structures allowing a flexible and efficient assembly. The casing is self-supporting and consists of non-corroding aluminum. The high-quality aluminum frame forms an optically harmonic unit with the collector surface – an important detail for the aesthetic overall impression of the roof. The valuable interior is covered with solar safety glass which is protected against hail and other environmental influences and therefore offers all around safety. In order to prevent energy loss the collector is equipped with an optimized heat insulation. The usage of this quality product ensures high customer satisfaction and best operating efficiency.

## Technical Data

Flat-Plate AS-FK 2.3	
Dimensions (l x w x d) [mm]	2044 x 1144 x 80
Collector surface area [m <sup>2</sup> ]	2,34
Weight [kg]	44
Efficiency rate $\eta_0$ [%]	79,1
Heat loss coefficient $k_1$ [W/m <sup>2</sup> K] / $k_2$ [W/m <sup>2</sup> K <sup>2</sup> ]	3,3 / 0,016
Nominal heat capacity [kW]	1,69
Yield prediction Würzburg 3m <sup>2</sup> / 5m <sup>2</sup> [kWh/m <sup>2</sup> a]	581 / 482
Frame colour	silver / natural aluminium
Absorber	
Absorption $\alpha$ / emission $\epsilon$ [%]	95 / 5
Absorber surface / aperture area [m <sup>2</sup> ]	2,14 / 2,14
Material / coating	copper / Sunselect
Hydraulics	
Minimum flow rate (up to 5 collectors in series) [l/m]	2,5
Pressure loss (minimum flow rate) [mbar]	59
Max. pressure of operation [bar]	2 / 10
Shutdown temperature [°C]	217
Collector volume [l]	1,6
Collector connection lateral [mm]	Cu12

## Connection Accessory

Article	Description
Collector array connection set	Hydraulic couplings for a fast connection of the collector array with the tubing, consisting of 2 highly flexible stainless steel corrugated tubes with temperature-, UV-, weather-proof, PE-foil coated heat insulation, 1.0 m apiece
Collector connection vertical / side by side	Straight clamp ring fitting made of nickel-plated high quality brass with self-sticking, flexible adhesive tape and temperature-resistant heat insulation (optionally also available for all other positionings!)

Subject to change

**AS Solar**  
Lighting the Way.

Am Tönniesberg 4A  
D-30453 Hannover  
[www.as-solar.com](http://www.as-solar.com)

Tel.: +49 511 47 55 78 - 0  
Fax: +49 511 47 55 78 - 11  
[info@as-solar.com](mailto:info@as-solar.com)