

Application:

The laser welded aluminium absorber and the antireflective glass of the OKF flat-plate collector guarantee a high efficiency. The flat-plate collector OKF can be used for heating of potable water and swimming pools as well as solar support of the heating system. The flat-plate collector can be mounted horizontally or vertically and is suitable for rooftop installation, roof integration or free-standing installation (flat roof installation).

Installation:

Depending on the type of installation, a basic set for 2 collectors, an extension set for each additional collector and an individual set for the installation of a single collector are available. The pre-assembled rail systems for rooftop and flat rooftop installation allow a quick and rational installation on site. All fixing elements are easily accessible and allow a time-saving installation.

The absorber made of aluminium heat conducting steel sheet and copper pipe is connected to the solar circuit (supply and return) via two collector connections with G ½ male thread (see illustration on next page).

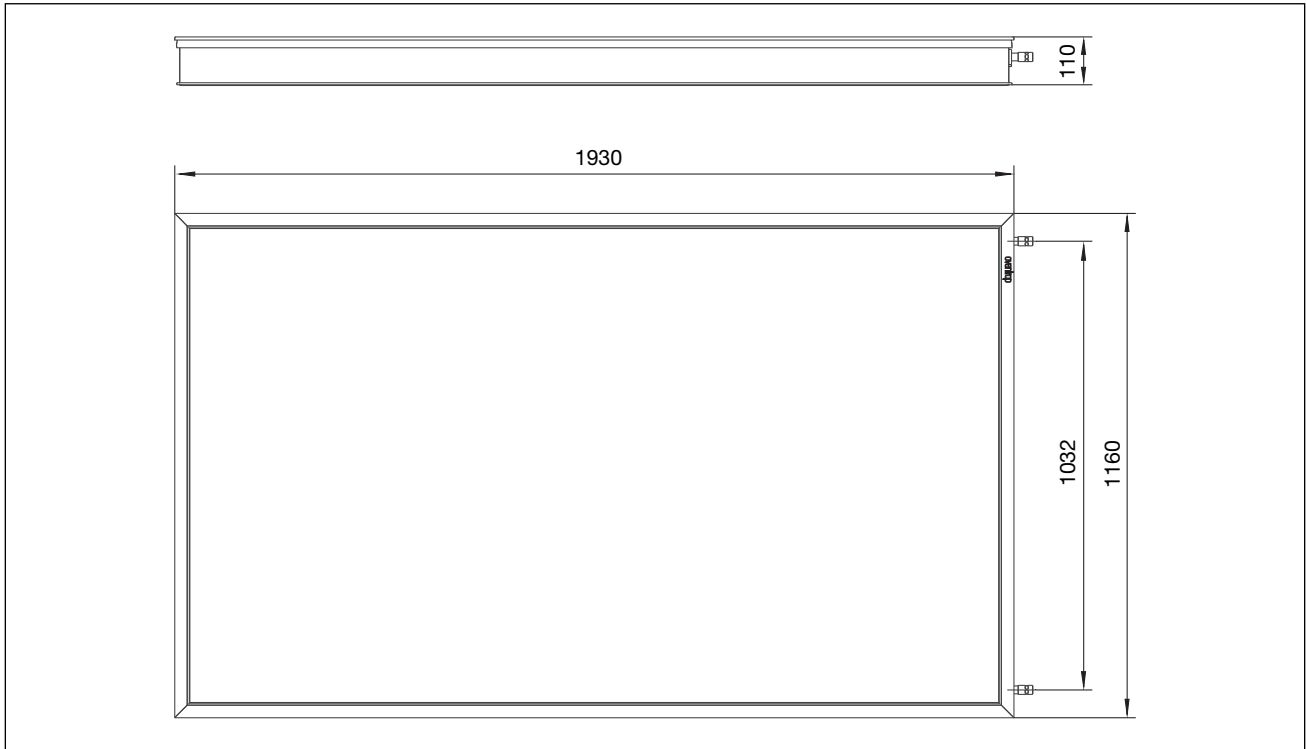
Advantages:

- Collector cover with matt finished antireflective glass for 95% light transmission
- Laser welded aluminium surface absorber with copper pipe elements for an optimum heat return and a low pressure loss
- Thermal insulation made of mineral wool of 60 mm thickness (with low binding agent content) of thermal conductivity group 040
- Peripheral frame insulation made of mineral wool (with low binding agent content) of thermal conductivity group 040
- UV-resistant EPDM glass sealing
- Permanent mechanical fastening of the glass pane
- Horizontal or vertical installation
- Architectonic appealing solution of roof integration



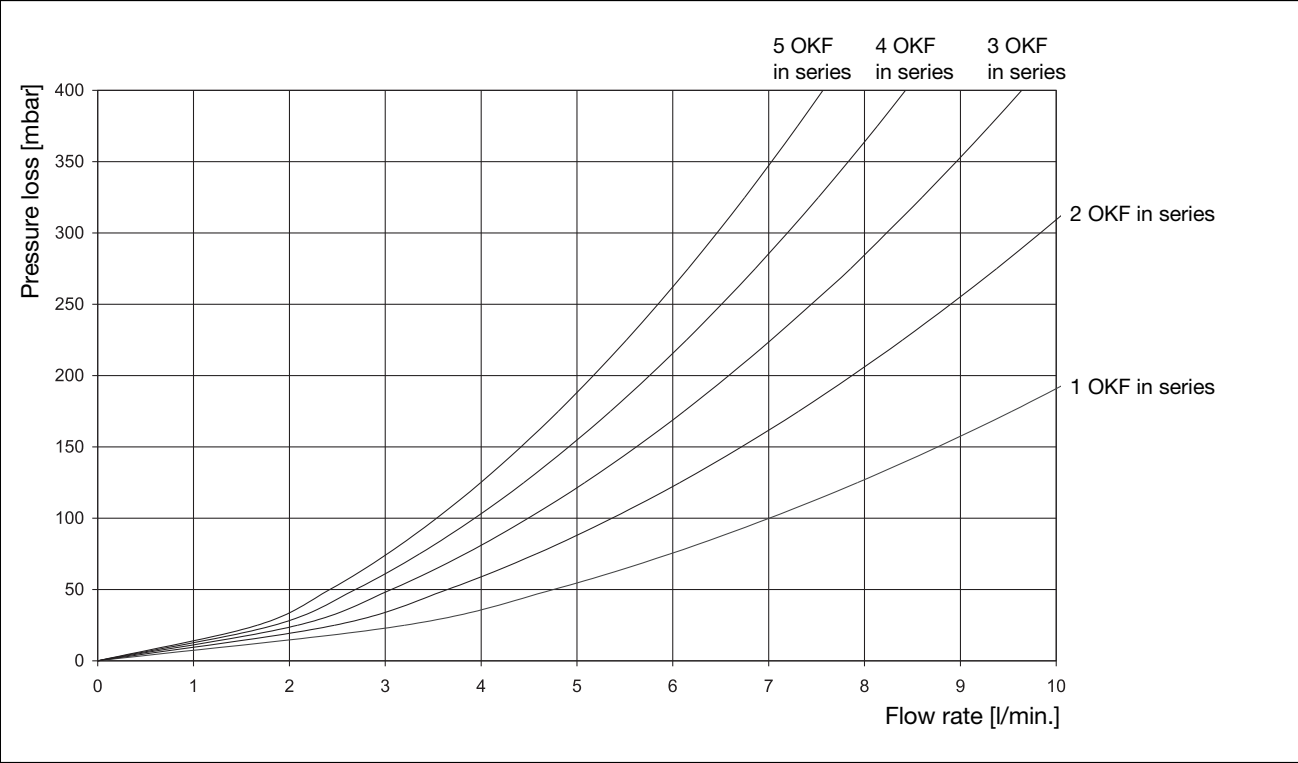
Flat-plate collector OKF

Technical data:



Flat-plate collector	Unit	OKF
Gross surface area	m ²	2.24
Outer dimensions (L x W)	m	1930 x 1160
Aperture surface area	m ²	2.02
Collector connection	-	G ½ male
Weight	kg	42
Absorption coefficient	α	95 %
Emission coefficient	ε	5 %
Transmission	τ	96 %
Stagnation temperature at 1000 W/m ² and 30°C	°C	about 232
Max. permissible operating pressure	bar	10
Collector heat return	kWh/m ²	> 525
Heat exchanger content	l	1.24
Glass cover	-	4 mm solar safety glass with antireflective coating
Solar sensor (inner diameter)	Ø	6 mm
Absorber	-	Absorber made of aluminium heat conducting steel sheet and copper pipe, laser welded

Pressure loss chart flat-plate collector OKF



Subject to technical modification without notice.

Product range 7
ti 235-0/10/MW
Edition 2010