

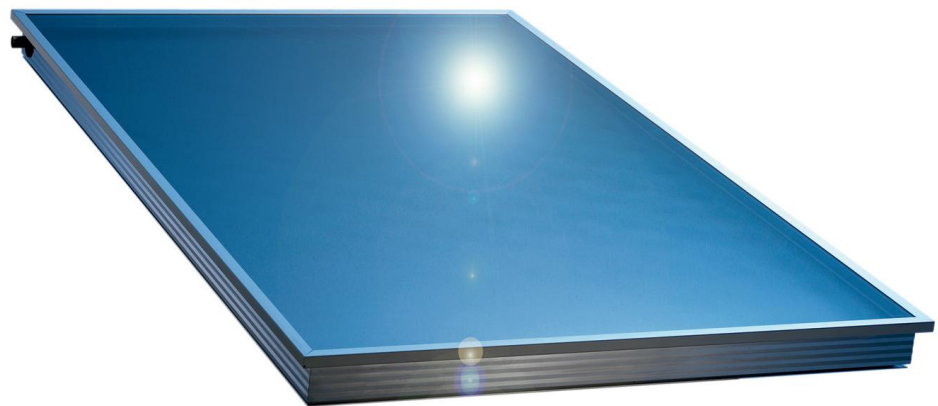
# Flat Panel Solar Collectors

## Flat Panel Solar Collectors

Everything begins with the solar collector and the performance of your entire system depends on the efficiency of this key component. Meibes flat panel solar collectors are custom designed and set the standard for both performance and reliability. They are highly efficient and offer outstanding value on a price/performance basis. These collectors are engineered to achieve the maximum efficiency in wide range of residential and commercial solar thermal applications, and they are backed by a full 10-year warranty.

Each Meibes solar collector is constructed with a laser-welded, corrosion-resistant, aluminum frame and back plate. Inside the collector we use 40mm of mineral wool insulation and an absorber plate covered with a highly selective coating to maximize the solar heat absorption. The low iron, tempered, solar glass is secured to the frame using an exclusive two part adhesive compound ensuring a weather tight seal. The low-profile design is aesthetically pleasing and the light-weight panels provide ease of transport and installation. A modular mounting system allows the collectors to be used for both flush and rack mounted installations, and they have been designed to withstand 93 mph (150 km/h) winds and 26 lbs/ft<sup>2</sup> (1.25 kN/m<sup>2</sup>) snow loads.

- Highly efficient solar collector engineered to achieve the maximum efficiency
- Excellent choice for most residential & commercial solar thermal applications
- Low-profile, light-weight design is aesthetically pleasing and ensures easy transport and installation
- Modular mounting system makes both flush and rack mounted installations quick and easy
- 10-Year Warranty

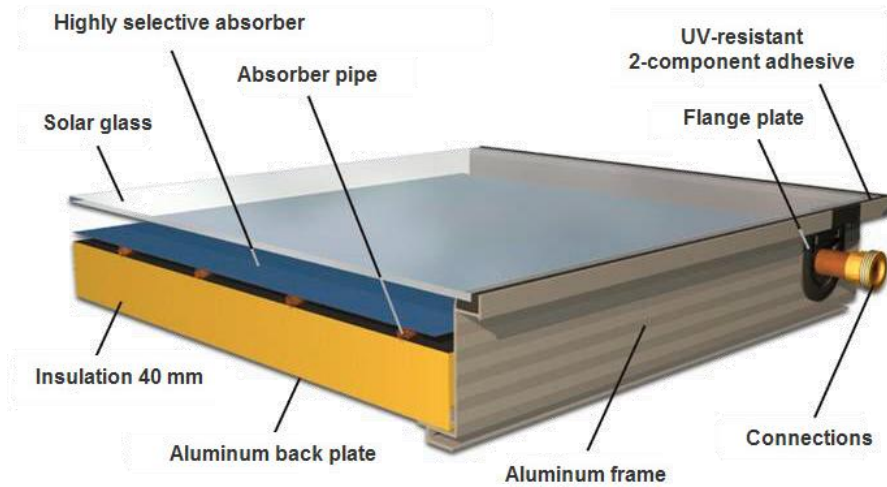


# Meibes Flat Panel Collectors

Model Numbers: SC-FP-001 / MFK 001 & SC-FP-002 / MFK 002

Technical Data	SC-FP-001 / MFK 001	SC-FP-002 / MFK 002
Overall area [ft <sup>2</sup> (m <sup>2</sup> )]	27.0 (2.51)	25.2 (2.34)
Absorber area [ft <sup>2</sup> (m <sup>2</sup> )]	24.8 (2.3)	23.0 (2.14)
Aperture area [ft <sup>2</sup> (m <sup>2</sup> )]	25.7 (2.39)	23.9 (2.22)
L x W x H [in (mm)]	84.6 (2150) x 46.1 (1170) x 2.9 ( 83)	78.7 (2000) x 46.1 (1170) x 2.9 ( 83)
Weight [lb (kg)]	93 (42)	88 (40)
Absorber capacity [gal (l)]	0.45 (1.7)	0.42 (1.6)
Connections	3/4" ISO 228	1" ISO 228
∅ manifold [in (mm)]	3/4" (18)	1" (22)
∅ risers [in (mm)]	5/16" (8)	
Housing	Aluminum-frame	
Back plate	Aluminum-sheet	
Absorber	Highly-selective coating	
Absorption [%]	95	
Emission [%]	5	
Glass cover	0.125 in (3.2 mm) tempered solar safety glass	
Transmittance of glass [%]	95	
Insulation	40 mm mineral wool plate	
Max. stagnation temperature	453°F (234 °C) under test conditions	
Max. operating pressure	145 psi (10 bar)	
Proper heat transfer medium	Polypropylene glycol / water mixture	
Approved installation angle	min. 15°, max. 75°	

## Design & Construction



**Meibes Incorporated**  
 North American Headquarters  
 68 Mazzeo Drive, Randolph, MA 02368 - USA  
 (877) 257-5473 Tel/Fax  
[www.meibes.us.com](http://www.meibes.us.com)