

## Technical data

|                                     |  |
|-------------------------------------|--|
| Type of construction                | Flat plate collector for on-roof, flat-roof and facade mounting  |
| Absorber type                       | KBB absorber with Al-sheet and Cu-tubes,<br>Absorber with 1 meander $\varnothing 9$ mm and 2 manifolds $\varnothing 18$ mm |
| Measurement (L / W / H)             | 1908 / 1058 / 75 mm  |
| Gross area                          | 2.019 m <sup>2</sup>   |
| Aperture area / Absorber area (net) | 1.833 m <sup>2</sup> / 1.833 m <sup>2</sup>  |
| Total Weight dry                    | 29 kg  |
| Liquid content                      | 1.15 l   |
| Efficiency $\eta_0$                 | 76,1 %, related to the aperture area   |
| Heat loss coefficient a1            | 4.04 W / (m <sup>2</sup> x K)  |
| Heat loss coefficient a2            | 0.0127 W/(m <sup>2</sup> K <sup>2</sup> )  |
| Heat loss coefficient a40           | 4.548 W / (m <sup>2</sup> x K)   |
| Stagnation temperature              | 205°C  |
| Absorber coating                    | Highly selective on Aluminium  |
| Absorptance / Emittance             | 95 % / 5%  |
| Covering                            | Low iron, structured, solar safety glass (ESG)   |
| Transmission of covering            | 91,5 %   |
| Impact resistance of covering       | Cover passed the optional impact resistance tests following EN12975-2.   |
| Nominal flow                        | 120 l/h (low flow conditions: 50 l/h)  |
| Nominal pressure loss               | 220 mbar (low flow conditions: 90 mbar, water/propylene-glycol 20°C)   |
| Hydraulic connection                | Parallel connection with collectors side-by-side   |
| Collector connection                | 4 connectors $\varnothing 18$ mm for compression fittings  |
| Max. operation pressure             | 10 bar   |
| Heat insulation                     | Mineral wool 30 mm   |
| Collector case                      | Aluminium frame, seawater resistant  |
| Angle of inclination                | 15 – 90°   |
| Permissible wind and snow load      | 3 kN/m <sup>2</sup> suction, 3 kN/m <sup>2</sup> pressure  |
| Recommended heat transfer fluid     | Antifreeze mix based on propylene-glycol   |
| Report no. of Performance Test,     | 135-12/KD,   |
| Reliability Test acc. to EN12975    | 136-12/KQ  |
| Solar Keymark no. / expiry date     | 011-7S1685 F / 2018-06-30  |
| Guarantee                           | 10 years for functionality and weathering resistance   |

