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European Renewable Energy

A whole world of energy saving technologies



The dependable

FK 7210 elite Flat plate collector

dependable construction with great performance potential

the estec flat plate collector FK 7210 elite from our classic line series of products is defined by its high-quality workmanship and excellent durability. A dependable collector that has been on the market for 10 years the one-piece full-face absorber makes possible a highly effective use of available space whilst creating the best efficiency.

**10-year
warranty**

- high-quality workmanship
- excellent durability
- Quickest installation time
- exceptionally efficient use of surface area
- Maximum standard of quality
- trouble-free operation



Umweltmanagement
System
zertifiziert nach
ISO 14001



QUALITÄTSMANAGEMENTSYSTEM
ÖNORM EN ISO 9001
ZERTIFIKAT
86910
ISO 9001



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FK 7210elite Flat plate collector

the new flat plate collector with greenhe At technology.

the collectors in this series are dry sealed and silicone free. the solar glass cover is sealed using a bond free rubber frame. the full-face absorber is embedded in a tray made from aluminium and positioned on a layer of rock wool 40mm thick.

A mounting system especially created for the collector series makes it possible to have free standing or roof mounted installations.

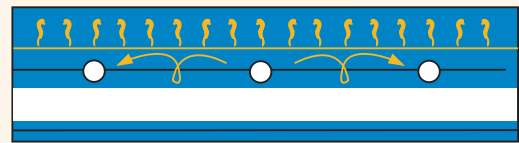
greenhe At stands for the cleanest absorber technology

the welded full face absorber makes possible the most effective use of space: the collector tubes are completely covered, thereby preventing air turbulence and limiting the loss of heat at the solar cover.

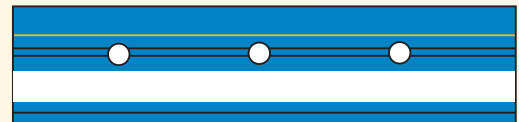
solar coating for maximum energy absorption.

with the coating of theestec fK 7210 elite the emission values (thermal reflection) are reduced to less than 5 %! Power levels previously believed to be unreachable are now a reality.

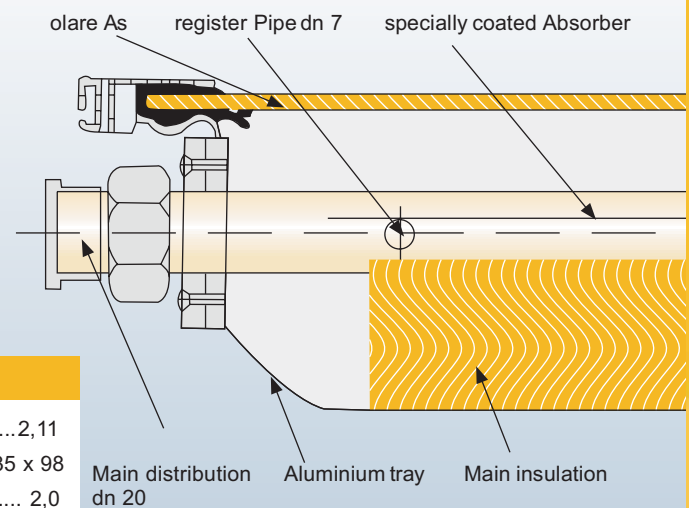
conventional strip design
Air turbulence causes loss of heat



greenhe At technology
closed surface – no loss of heat



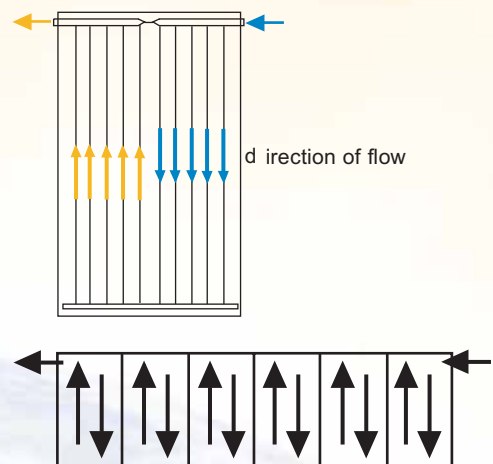
Modern absorber coating processes mean the efficiency of solar collectors has considerably improved.



technical details

| | |
|---|--|
| overall area (m ²): |2,11 |
| Measurements height (h) width (w) depth (d) (mm): |2036 x 1035 x 98 |
| Aperture area (mm ²): | 2,0 |
| total weight of collector (kg): |39 |
| casing: |deep mould Aluminium tray |
| Absorber components: |full face absorber ultrasonically welded register Ø 8 x 0,5 mm pipes made from copper |
| Absorber-coating: |interpane sunselect |
| efficiency factor, Absorber designation (%): |82 |
| Absorber volume (l): |1,4 |
| transparent cover: |low-iron, tempered, clear solar glass |
| light transmittance of glass: |90,8 ±2% |
| energy transmittance of glass: |90 ±2% |
| glass measurements l x w x h (mm): | 2000 x 1000 x 4 |
| over all collector weight (kg): |20,0 |
| connections/fixings: |two..1" flat-sealed screw connections design:.....vertical Mount |
| Max. operating pressure (bar) |10 |
| stagnation temperature: | ca. 180 plus surrounding area temperature |
| heat transfer medium: |Polypropylene glycol / water mixture |
| insulation: |40mm rock wool |
| efficiency and Quality test: |din certco 011-7s229f |

example of connection and direction of flow



A maximum of six collectors can be connected together