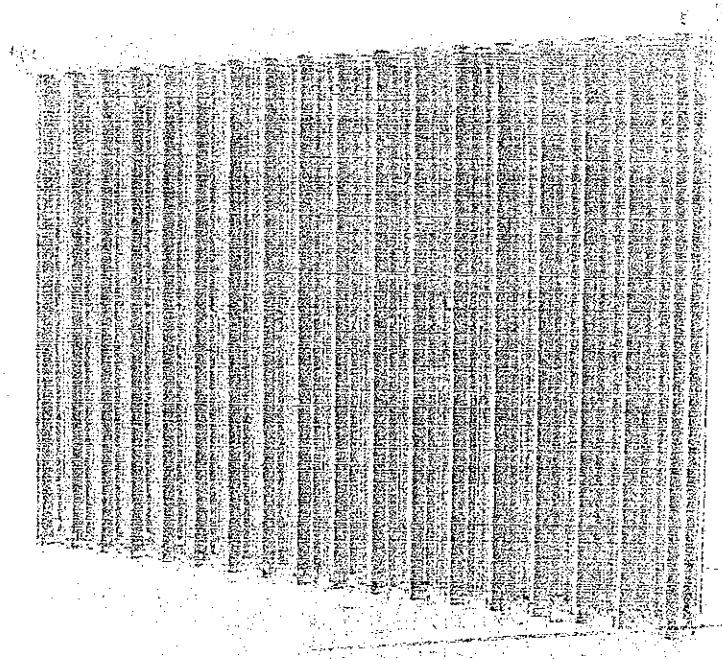
B

COLLECTOR

SKY 18 CPC 58

GROSS AREA 3.22 m²



Aodoozulok

15 APR 2009

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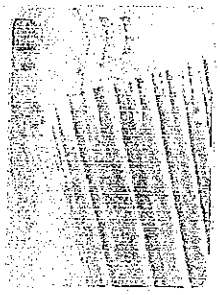
SOLAR KEYMARK

DIN CERTCO
Gesellschaft für Konformitätsbewertung mbH

PRODUCT DESCRIPTION

The Kloben solar collector mod. SKY 18 CPC 58 composed of a series of borosilicate glass pipes with double air gap, welded at the end, inside which a vacuum is caused. The internal air gap is made selective due to the absorption of solar electromagnetic radiation through a multi-layer metallisation called "CERMET", created using completely recyclable products.

The absorption unit is made up of a copper circuit bent into a U shape, positioned in contact with specific aluminium heat absorbers, which increases the heat exchange surface. Each unit is contained in a glass pipe, and is then connected in parallel to a collector situated on the head of the panel, which collects the carrier fluid which flows through every circuit. A metal frame with electro-coloured aluminium edging of a suitable thickness, as envisaged by regulations for saline mist corrosion resistance. The assembly of the individual components which make up the structure takes place using special brackets for simplified interlocking assembly. The protective structure of the copper distribution collector is made of electro-coloured aluminium, fully insulated with special non-flammable class 0 (ISO - DIS 1182.2) insulation, which is water repellent with low biopersistence. Low iridescence rolled section (regulations EN 573/3 - EN 485/2 - EN 485/4 and standard test for anodic oxidation DIN 50943) purposely created to reflect with percentages greater than 90% of the total light, taking advantage of the CPC (Compound Parabolic Concentrator) system.





"EASY CHANGE" fixing system

ADVANTAGES

- Designed and dimensioned for the most common requirements
- Excellent quality/price ratio
- Ø 18 mm collector attachments
- Simplified pipe removal thanks to the new EASY CHANGE system
- Reduced heat losses thanks to the vacuum technology

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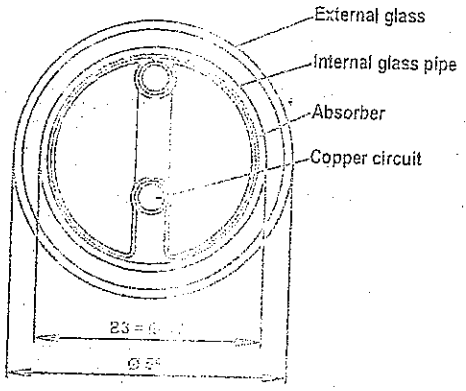

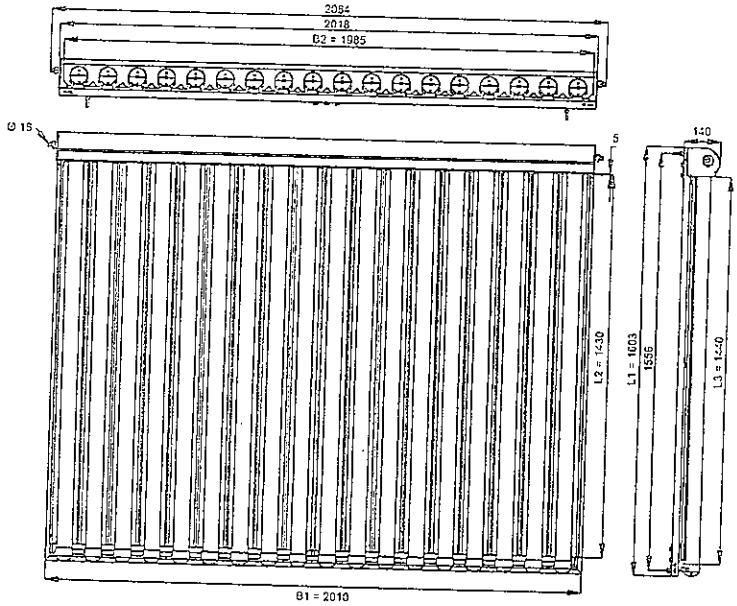

Solar collector certificates conforming to regulations EN 12975-1:2006 and EN 12975-2:2006 in accordance with the Solar Keymark European regulation scheme.

Certifying body DIN CERTCO

Certifying laboratory ITW, Institut für Thermodynamik





Würzburg Test
(3 m² opening area)

kWh/(m² year)

Number of pipes	18
External diameter [illegible] pipes	58 mm
Collector attachm[illegible]	18 mm
Efficiency ([illegible])	71.80%
Heat loss coefficie[illegible]	0.974 W/m²K
Heat loss coefficie[illegible]	0.005 W/m²K²
Maximum working [illegible]	6.0 bar
Optimal flow rate	1 l/min m²
Weight when empt[illegible]	65 kg
Liquid content	2.29 l
Gross area	3.22 m²
Opening surface	2.84 m²
Absorption surfac[illegible]	1.22 m²

Width with fitting[illegible]	2018 (2084) mm
Heigh[illegible]	1603 mm
Depth	140 mm

