

D A T A S H E E T**Reg. No. 011-8D001**

(filled in by DIN CERTCO)

**for testing of
ceiling mounted radiant panels according to DIN EN 14037**

Licensee:

Name	Frenger Sytemen BV Heiz- und Kühltechnik GmbH.....
Street	Gartenstraße 69-73
Postal code / Country	64823 Groß – Umstadt / Deutschland

Designation of the model (type): ECO EVO

Technical data/characteristics

The ceiling mounted radiant panels of this model and/or this type become determine by the following data (see dimensioned plan page 2) and the following table:

- Design of the ceiling mounted radiant panel: Strahlplatte mit Heizrohren aus Stahl
 - Aquifer system: Meander.....
 - Material(s): heating tube: Stahl.....
radiant surfaces: Aluminium
 - Surface condition: Lackiert
 - Connection of the aquifers and non-aquifers heating surface: geklemmt
 - Others: /
- | | | | | | |
|-------------------------|------------|----------|-------------------------------|-------|----------|
| ▪ Depth/ width: | 310 – 1210 | mm | ▪ Number of tubes | 2 - 8 | |
| ▪ Height: | 35 | mm | ▪ Outside diameter of tubes | 28,5 | mm |
| ▪ Construction length | / | mm | ▪ Distance between tubers | 150 | mm |
| ▪ Height of side frame: | 68 | mm | ▪ max. operating pressure: | 10 | bar |
| ▪ Thickness of sheet: | 0,7 | mm | ▪ max. operating temperature: | 120 | °C |
| ▪ Coating level | 4 | (1 to 5) | ▪ Working pressure level | 3 | (1 to 4) |

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Test report No.: H.0502.P.269.FRE..... **of:** 8.3.2005.....

70569 Stuttgart, 24.9.2007

Place and date

**Institut für
GebäudeEnergetik**
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Stamp and signature of testing laboratory

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Width [mm]	Number of tubes	Dry weight [kg/m]	Water content [kg/m]	Standard thermal output [W/m]	Characteristic equation $\phi = K \cdot \Delta t^n$ [W/m]	
					K	n
310	2	3,55	1,20	175,84	1,7881	1,1450
460	3	5,15	1,70	239,94	2,3720	1,1521
610	4	6,70	2,20	304,04	2,9220	1,1591
760	5	8,30	2,70	361,35	3,4588	1,1601
910	6	9,90	3,20	418,66	3,9914	1,1611
1060	7	11,45	3,70	475,96	4,5196	1,1621
1210	8	13,05	4,20	533,27	5,0435	1,1631

DATASHEET

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Dimensioned plan:

Confirmation by the testing laboratory:

The dimensional plan contains all data and nominal dimensions relevant for the thermal output of the ceiling mounted radiant panel(s). Compared to the indicated nominal dimensions, the ascertained dimensions of the ceiling mounted radiant panel(s) of this model and/or type, which were tested by us, are located within the maximum dimensional tolerances of DIN EN 14037

