

TECHNICAL DATA SHEET KSF D25

PLEION KSF D 25 flat solar collector, consisting of a large absorbing surface capable of capturing and transforming solar radiation into heat, with innovative glass that maximizes the amount of absorbed solar radiation. The frame is made with welded aluminum profiles of increased thickness which give the structure stability, sturdiness and protection against deterioration. Aluminum absorber, welded to the copper circuit with laser technology. Internal single harp copper circuit equipped with horizontal supply and return distributors, with harp having 11 vertical channels. Cover in highly resistant tempered glass, class U1 certified according to EN 12975-2.

Internal insulation in rock wool to ensure insulation properties over time. Installation on pitched, flat and vertical roofs with triangular structure. Connectable as standard in series up to 6 collectors. Special solutions can be studied upon request.

Hydraulic connections 4 SMOOTH COPPER connections diameter 22 mm, male connection. For the connection, the IDRA BASIC SET is required (for single installation or the first manifold, made up of cap, immersion probe and gaskets) and the IDRA PLUS SET (for the series of two manifolds, made up of 2 expansion joints with gaskets)

DIMENSIONS (length x width x depth)	[mm]	2006x1257x103
GROSS SURFACE AREA	[m²]	2,52
OPENING SURFACE	[m²]	2,33
SURFACE ABSORPTION	[m²]	2,31
EMPTY WEIGHT	[kg]	46,5
LIQUID CONTENT	[l]	1,90
MAXIMUM WORKING PRESSURE	[bar]	10
MINERAL WOOL INSULATION	[mm]	40 h.f./ 10 l.a.
COEFF. OF TRANSMISSION a1 (ref. opening surface)	[W/m²K]	3,627
COEFF. OF TRANSMISSION a2 (ref. opening surface)	[W/m²K²]	0,011
OPTICAL EFFICIENCY η0 (ref. aperture surface)	[-]	79,5
ABSORPTION COEFFICIENT	[%]	95
EMISSION COEFFICIENT	[%]	5
TRANSMISSION COEFFICIENT	[%]	91
DISTRIBUTION MANIFOLD PIPE	[Ø]	22
GLASS THICKNESS	[mm]	4
MAXIMUM STAGNATION TEMPERATURE	[°C]	185
MINIMUM INCLINATION	[°]	15
MAXIMUM INCLINATION	[°]	75
SOLAR COLLECTOR PEAK POWER	[W]	1852
CORRECTION FACTOR ANGLE OF INCIDENCE	[K50°]	0,947
SOLAR KEYMARK CERTIFICATE	011 - 75S2926 F	
WÜRZBURG SKM ENERGY VALUE - Tm 50°C	[kWh]	1206



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