



TECHNICAL DATA SHEET

High efficiency Pleion X-AIR 14 vacuum solar collector consisting of 14 double-walled borosilicate glass tubes, external diameter 58 [mm] inside which a vacuum is created. Frame made of anodized aluminum profiles that give the structure strength. The solar radiation penetrates from the outside into the glass tubes and is captured by the absorber. An aluminum tube inside the glass transfers the heat to the "U" shaped copper circuit inserted in the same. A special Nickel treatment deposited on the copper circuit cancels any type of oxidation caused by high temperatures and guarantees a long life. Internal insulation in rock wool.

The special third tube integrated in the manifold allows the installation of up to 6 collectors in parallel with parallel operation, with the exclusive and extraordinary advantage of not having to realize the external return line. This reduces the cost and time of installation with an even aesthetic advantage. Installation on any type of flat or inclined surface with dedicated fixtures. Possibility of providing a special system of blackout dishes to eliminate the stagnation and over temperature of the panel. The dishes are controlled and managed by the special control unit.

MEASUREMENTS (length x width x height)	[mm]	2002 x 1314 x 120
GROSS SURFACE AREA	[m ²]	2,630
APERTURE AREA	[m ²]	1,940
ABSORBER SURFACE 360°	[m ²]	1,145
WEIGHT WHEN EMPTY	[kg]	71,0
FLUID CONTENT	[l]	2,83
MAX TEST PRESSURE	[kPA]	1000
RECOMMENDED CAPACITY	[l/min] for collector	0,85
PEAK POWER	[W]	1378
OUTPUT η_0	[%]	71,0
TRANSMITTANCE COEFFICIENT a1	[W/m ² K]	2,074
TRANSMITTANCE COEFFICIENT a2	[W/m ² K ²]	0,000
ABSORPTION COEFFICIENT	[%]	92,00
EMISSION COEFFICIENT	[%]	6,50
COEFFICIENT TRANSFER OF THE GLASS	[%]	92,00
CONNECTIONS		6 per 3/4"-M
STAGNATION TEMPERATURE	[°C]	240



Questo schema è puramente indicativo e non costituisce impegno o responsabilità alcuna da parte di Pleion e dei suoi collaboratori. La progettazione esecutiva e le conseguenti messa in opera dovranno essere realizzate nel rigoroso rispetto delle norme vigenti di legge. Pleion si riserva la proprietà di questo disegno con la proibizione di riprodurlo o trasferirlo a terzi senza autorizzazione scritta.

OGGETTO : PLEION SOLAR COLLECTOR X-AIR14		RIFERIMENTO :	
		COMMITTENTE :	
SCHEMA :	DATA :	DISEGNATO :	CONTROLLATO :
REVISIONE :	17.01.18	mdb	