



DATA SHEET X-RAY 18		
High efficiency vacuum solar collectors Pleion X-RAY R consisting of 58 mm diameter borosilicate double air casing vacuum tubes. Anodized aluminum framework for strength. Direct and diffused solar radiation penetrates the outside of the tubes and is captured in the absorber. The X-Ray 18 collector comes with a parabolic reflector which enhances the annual Energy performance. A special aluminum absorber inside the glass tube transfers the heat to the copper U tube inside the tubes. Strength, reduced overall dimensions, energy performance and exclusive design make it a quality benchmark for the solar thermal market. The BASIC version (standard) has 2 internal tubes that allow laying with opposite inlet and outlet. Available in the PERFORMA version (optional) with third tube integrated in the header of the collector which allows entry and exit on the same side, with In-line Installation and parallel connection. This brings the exclusive and extraordinary advantage of not having to make the external return line and drastically reduces Installation costs and time, ensures balanced plumbing systems and a clean stylish appearance. Pleion X-RAY R may be fixed to any kind of surface.		
DIMENSIONS (length x width x height)	[mm]	1921x1986x114
GROSS SURFACE AREA	[m ²]	3,82
OPENING SURFACE	[m ²]	3,45
ACTIVE ABSORPTION SURFACE 360 °	[m ²]	4,62
EMPTY WEIGHT	[kg]	69,2
LIQUID CONTENT	[l]	3,21
MAXIMUM WORKING PRESSURE	[bar]	10
RECOMMENDED FLOW	[l/min] per collector	2,70
PEAK POWER	[W]	2349
PERFORMANCE η_0	[%]	61,5
COEFFICIENT TRANSMISSION a1	[W/m ² K]	0,850
COEFFICIENT TRANSMISSION a2	[W/m ² K]	0,009
COEFFICIENT ABSORPTION	[%]	92
COEFFICIENT ISSUE	[%]	6,5
COEFFICIENT GLASS TRANSMISSION	[%]	92
CONNECTIONS		4 / 6 per 3/4"-M
MAXIMUM SEASONING TEMPERATURE	[° C]	300
MINIMUM INCLINATION AND MAXIMUM COLLECTOR	[°]	15 - 75
HEAD INSULATION THICKNESS	[mm]	30
WURBURG VALUE 50 °	[kWh/an]	2371
IAM VALUE 50 °	[-]	1,05



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OGGETTO : 24.1018

Vacuum SOLAR collector X-RAY 18