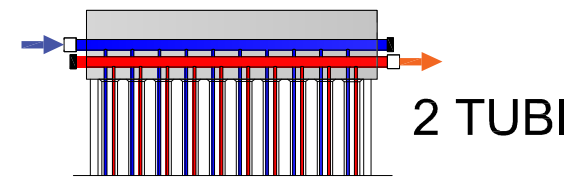
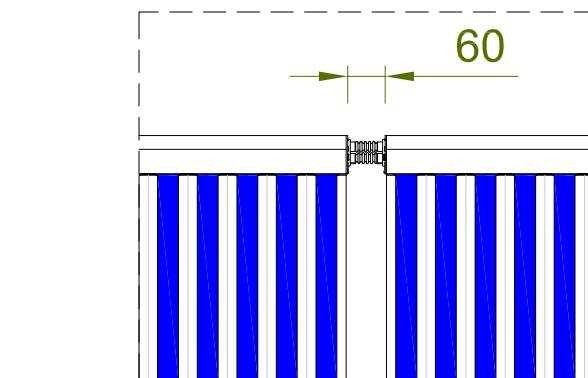
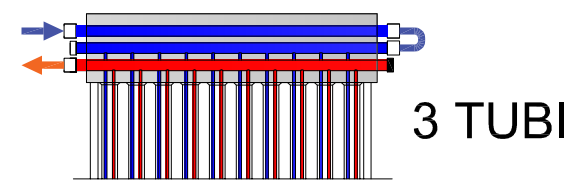


## BASIC



## PERFORMA



## DATA SHEET X-RAY 11

High efficiency vacuum solar collectors Pleion X-RAY R consisting of 58 mm diameter borosilicate double air casting 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 11 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]	1921x1216x114
GROSS SURFACE AREA	[m <sup>2</sup> ]	2,34
OPENING SURFACE	[m <sup>2</sup> ]	2,11
ACTIVE ABSORPTION SURFACE 360 °	[m <sup>2</sup> ]	2,82
EMPTY WEIGHT	[kg]	43,6
LIQUID CONTENT	[l]	1,96
MAXIMUM WORKING PRESSURE	[bar]	10
RECOMMENDED FLOW	[l/min] per collector	1,65
PEAK POWER	[W]	1404
PERFORMANCE $\eta_0$	[%]	60,0
COEFFICIENT TRANSMISSION a1	[W/m <sup>2</sup> K]	0,910
COEFFICIENT TRANSMISSION a2	[W/m <sup>2</sup> K]	0,013
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]	1359
IAM VALUE 50 °	[-]	1,05

**PLEION**  
Passion and Innovation make the difference

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OGGETTO : 24.1018

Vacuum SOLAR collector X-RAY 11