

Kiwa Cermet Certification For Thermal (TH) Solar Collector Constructional Data Form

Customer Data:		
License holder	Production site	Trademark
Idrocalor S.r.l. Piazza A. Moro 17, Int.1 – 35030 Rubano (PD), Italy	Idrocalor S.r.l. Via L. Einaudi 38 – 35030 Saccolongo (PD), Italy	  TORMENE 1907 INDUSTRIAL OVENS eosth solar energy catcher Built under licence of: greenetica

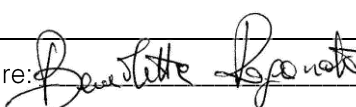
Product General / Technical Data:	
Collector type	Concentrating collector
Model name	EOS TH
Dimensions: gross length x gross width x gross height (mm)	3500x2010x3880
Gross area (m ²)	3,863
Aperture area (m ²)	3,715
Absorber area (m ²)	0,089
Weight of empty collector (kg)	5 (absorber) 750 (total weight)
Collector loop flow range (kg/s)	0,16/0,55
Max. Operating pressure (kPa)	200
Max. operating temperature (°C)	100
Stagnation temperature (°C) at 1000 W/m ² and 30°C	196
Fluid capacity (l) (volume of heat transfer fluid)	0,08
Heat transfer fluid (heat transfer medium)	Water-glycole



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List of critical components (as applicable):			
Component	Manufacturer	Model name	Technical data
Transparent cover - glass (only for flat plate glazed collector)	NA	NA	<ul style="list-style-type: none"> Thickness = NA Cover solar transmittance (%) at normal incidence (air mass 1.5) = NA
Transparent cover - vacuum tube (only for evacuated tube collector)	NA	NA	<ul style="list-style-type: none"> Thickness = NA Cover solar transmittance (%) at normal incidence (air mass 1.5) = NA
Absorber plate	Greenetica	EOS-P02	<ul style="list-style-type: none"> Thickness = 20 mm Material = aluminium anodized Absorber - fin width = Absorber - fin thickness = Solar absorptance $\alpha = 0,54$ Hemispherical emittance $\varepsilon = 0,75$ Surface treatment = black paint
Manifold (header pipe)	NA	NA	<ul style="list-style-type: none"> Manifold diameter or dimensions = NA
Risers (absorber tubes) (only for flat plate collector)	NA	NA	<ul style="list-style-type: none"> Number of risers = NA Riser diameter or dimensions = NA Distance between risers = NA
Heat pipe (only for evacuated tube collector with heat pipe technology)	NA	NA	<ul style="list-style-type: none"> Fluid content = NA Internal pressure = NA
U pipe (only for evacuated tube collector with U pipe technology)	NA	NA	<ul style="list-style-type: none"> Fluid content = NA Internal pressure = NA
Insulation	Aspen Aerogels	Pyrogel xte	<ul style="list-style-type: none"> Back insulation thickness = 30 mm Side insulation thickness = 10 mm
Casing (box)	NA	NA	NA

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Diffusion barriers (between absorber and insulation material)	NA	NA	NA
Reflectors (only for evacuated tube collector and concentrating collector)	Reflex S.p.A.	RFX001	<ul style="list-style-type: none">• Material: mirror glass• Geometry: parabolic• Focal length: 1810 mm• Reflector number: 2• Tracking system: 2-axis
Heat conductive paste (only for evacuated tube collector)	NA	NA	NA
Electronic unit (only for concentrating collector)	//	//	PLC
Protection systems	//	//	Temperature sensor Flow switch Anemometer
Other components (e.g.: sealing / adhesive material / rubber parts / plastic parts)	NA	NA	NA

Key:

NA = not applicable;

// = not declared by the manufacturer.

Copy of marking plate: -

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