

SOLAR DISSIPATOR

Technical datasheet Nr 44



The dissipator is part of the excess solar energy module that avoids the occurrence of stagnation in the solar system caused by a low use of solar energy produced.

Dimensioning characteristics of the solar dissipator for excess solar energy modules are the following:

- Heat exchanger power based on $650 \text{ W/m}^2_{\text{aperture}}$
- Primary:
 - Flat-plate collector: Mono Propylene Glycol 45% – $100/76^\circ\text{C}$ – $25 \text{ l}/(\text{h}\cdot\text{m}^2_{\text{aperture}})$
 - Vacuum tube collector: Mono Propylene Glycol 45% – $100/85^\circ\text{C}$ – $40 \text{ l}/(\text{h}\cdot\text{m}^2_{\text{absorber}})$
- Secondary: outside air 25°C

• TECHNICAL SPECIFICATIONS:

Specifications	50070100358	50070100359	50070100360	50070100696	
Flat-plate collector	Maximum area of collectors ($\text{m}^2_{\text{aperture}}$)	21	46	83	142
	Thermal power (W)	13 500	30 200	53 800	92 300
Vacuum tube collector	Maximum area of collectors ($\text{m}^2_{\text{absorber}}$)	26	54	98	163
	Thermal power (W)	16 800	35 000	63 900	106 200
Dimensions A x B x C	615 x 490 x 460	720 x 570 x 480	915 x 735 x 505	1070 x 860 x 570	
Battery materials	Aluminium fins crimped on copper tubes				
Total weight (kg)	25	41	53	69	
Test pressure (bar)	8				
Noise level of fan dB(A)	39	40	49	57	
Absorbed current by fan (A)	0.45	0.65	2.40	1.75	
Power supply of fan	Single-phase			Three-phase	

