



Monitoring of Solar thermal systems and components

AEE - Institute for Sustainable Technologies

A-8200 Gleisdorf, Feldgasse 19, Ph.:+43(0)3112/5886, Fax ext. 18
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AEE INTEC Solar Collector Factsheet Nr. MAG0705



MODEL	EKO MAG II
TYPE	EmaG2000
MANUFACTURER	EKO Solar
ADDRESS	ST Cveta Jovanova 14 2000 Stip Rep. Of Macedonia
TELEPHONE	-
FAX	-
E-MAIL	-
INTERNET	-
DISTRIBUTION	-

Performance verification according to EN 12975

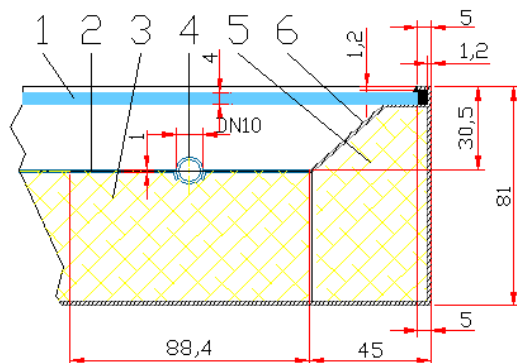
DIMENSION

gross length	1,935m
gross width	0,97m
empty weight with glass	36kg
liquid content	-
aperture area	1,762m ²
absorber area	1,61m ²
gross area	1,877m ²

ASSEMBLING

construction for flat roof	yes
integration into sloped roof	-
construction for sloping roof	yes
front mounting	-

CONSTRUCTION



TECHNICAL DATA

minimum volume flow rate	-
recommended volume flow rate	-
maximum volume flow rate	-
maximum operating pressure	-
maximum operating temperature	-
stagnation temperature	-

FURTHER DATA

variable module size	-
glazing replaceable	-
hydraulic connection:	-
	-

COMPONENTS

float glass cover 4mm	1
absorber	2
insulation	3
copper tube	4
outer insulation	5
aluminium frame	6



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EFFICIENCY CURVE

TESTTIME: 16.07.2007-24.08.2007

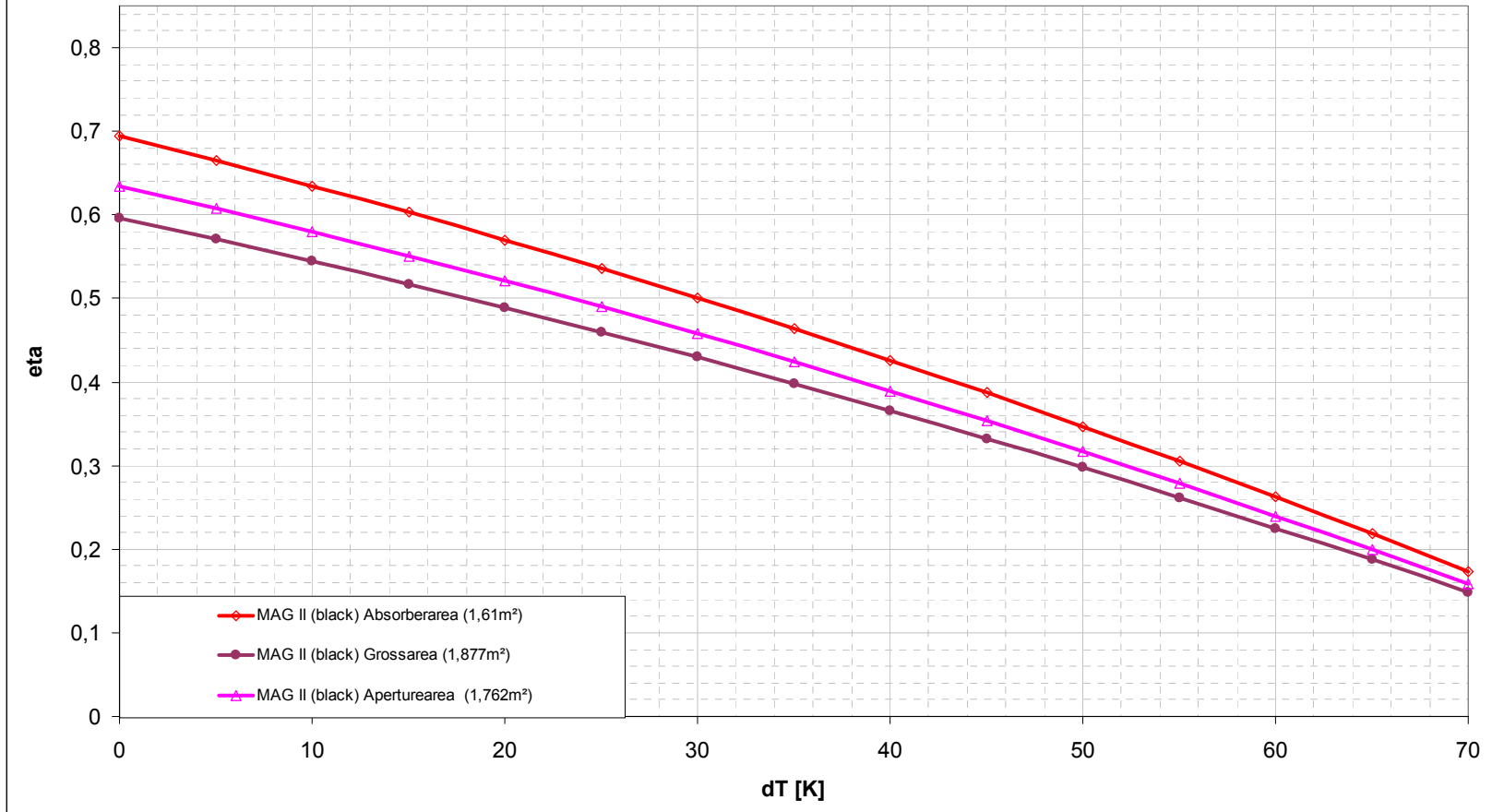
Reference area	η_0	$a_1[\text{W}/(\text{m}^2\text{K})]$	$a_2[\text{W}/(\text{m}^2\text{K})]$
Absorber	0,69411	-4,5584	-0,0200
Aperture	0,63424	-4,1651	-0,0182
Gross	0,59538	-3,9100	-0,0171

Test fluid: water

Volume current: 316 l/h

dt	Absorber area	Aperture area	Gross area
0	0,69411	0,63424	0,59538
5	0,665	0,60763	0,5704
10	0,63464	0,57989	0,54436
15	0,60303	0,55101	0,51725
20	0,57017	0,52099	0,48907
25	0,53607	0,48982	0,45981
30	0,50072	0,45752	0,42949
35	0,46412	0,42408	0,3981
40	0,42627	0,3895	0,36563
45	0,38718	0,35378	0,3321
50	0,34683	0,31691	0,2975
55	0,30524	0,27891	0,26182
60	0,26241	0,23977	0,22508
65	0,21832	0,19949	0,18726
70	0,17299	0,15806	0,14838

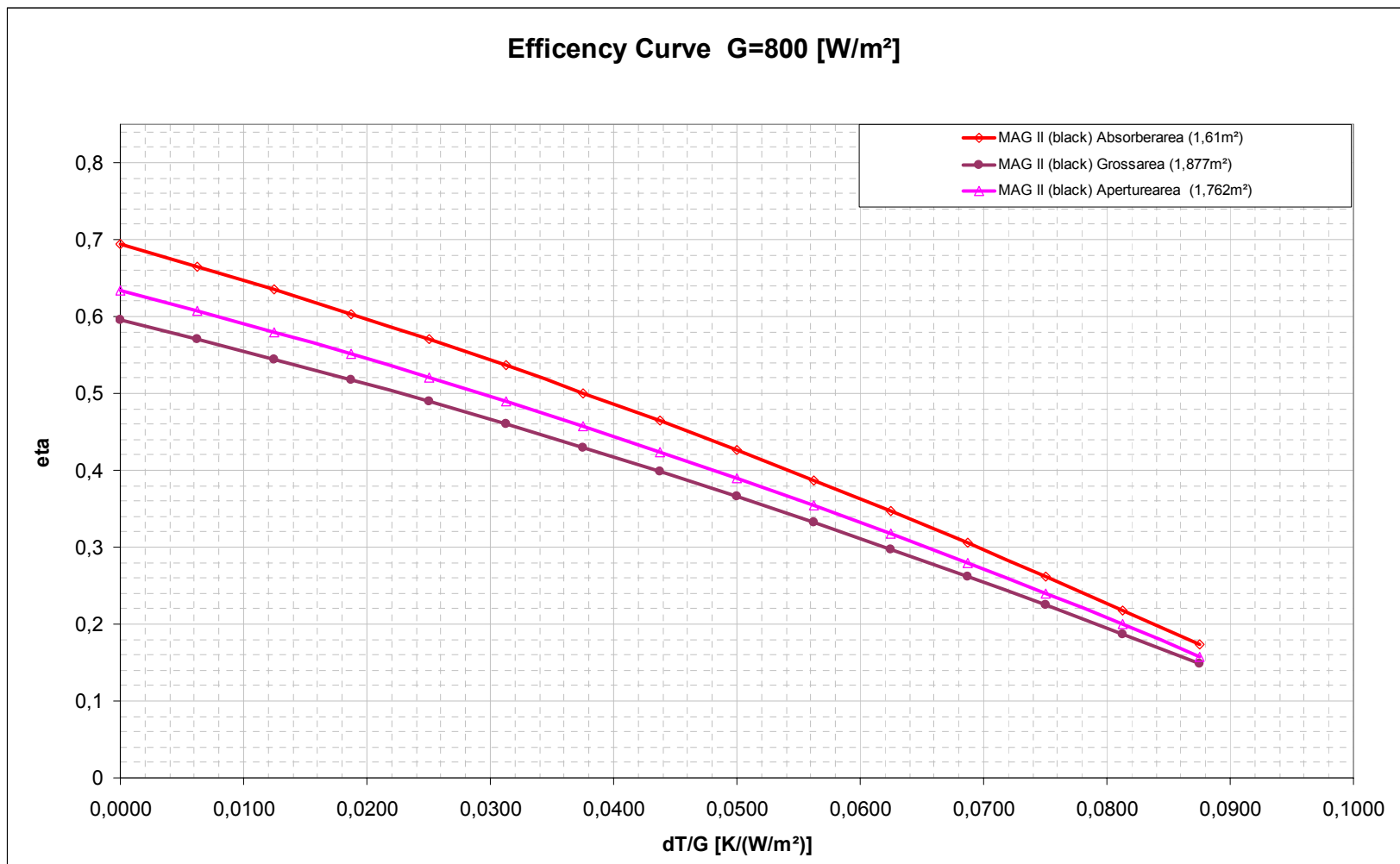
Efficiency Curve

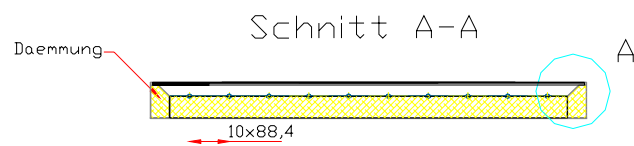
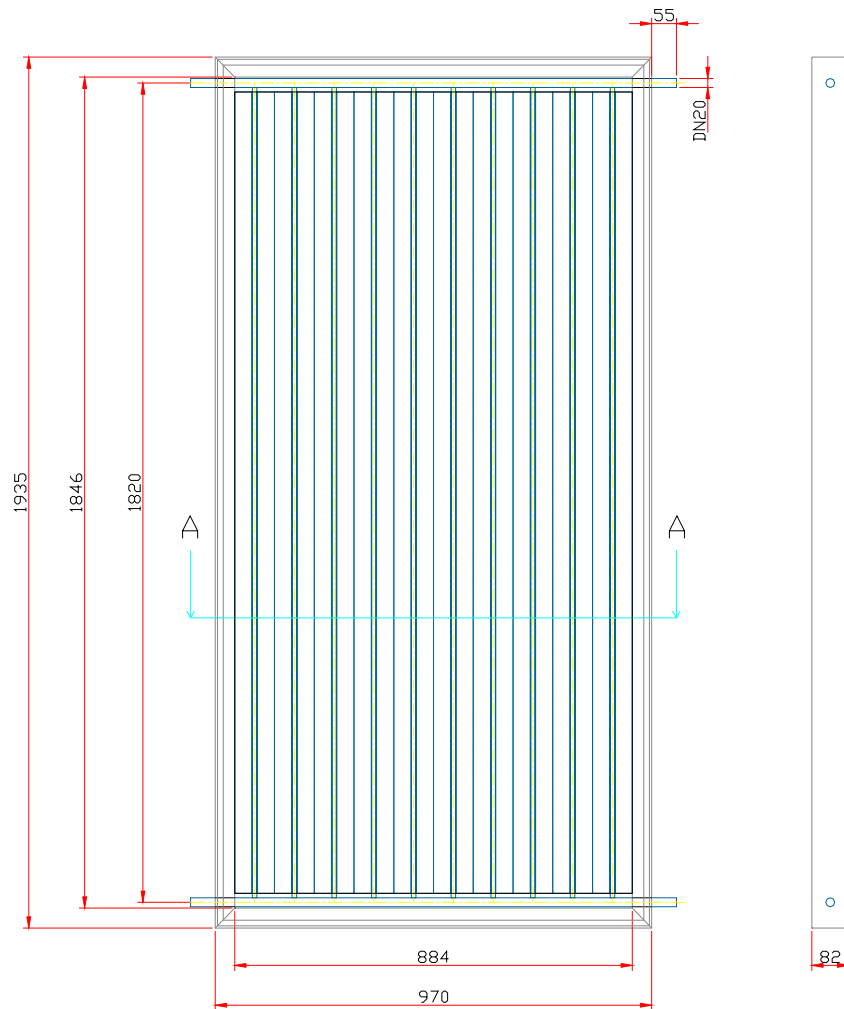


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