

ARCHITECT/ENGINEER

JOB:_____

REP:_____

Evosolar

Rev. 10/09

7243 Miller Drive* Warren, MI 48092 Phone:800-325-5690 Fax:800-628-4194 www.evosolar.us

DESCRIPTION

The EVOP is a solar flat plate collector with selective aluminum. The aluminum absorber is laser welded to copper pipes. The aluminum absorber is protected by high resistance tempered glass. The insulation is made of rock wool and glass wool.

FEATURES

1-**Collector casing**: Aluminum profile, RAL 9006 (grey)

2-**Side insulation**: Glass wool:0.79 in thick. Thermal conductivity:0.013 W/ftK (212F). Density: 2.5 lbs/ft3

3-**Copper pipes: Riser** .87in x 0.031in. Absorber: 0.31in x 0.019in

4-**Back insulation**: Rock wool:1.6 in Thermal conductivity: 0.013 W/ftK (212F) Density: 2.5 lbs/ft3

5-Back sheet: Aluminum

6-**Absorber sheet**: high selective coating aluminum

DIMENSIONS

Collector Type	27ft2
A [in]	48.6
B [in]	80.1
C [in]	3.5
Weight [lbs]	110
Absorber area [ft2]	24.9
Aperture area [ft2]	25.8
Absorber capacity [ft2]	26.9

ENGINEER:_____

CONTRACTOR:_____

The specification is provided for reference only. Evosolar reserves the right to change any portion of this specification without notice and without incurring obligation to make such changes to Evosolar products previously and subsequently sold.



EVOP/EVOPN



The EVOPN is a solar flat plate collector with black painted aluminum. The aluminum absorber is laser welded to copper pipes. The aluminum absorber is protected by high resistance tempered glass. The insulation is made of rock wool and glass wool.

FEATURES

1-**Collector casing**: Aluminum profile, black painted

2-**Side insulation**: Glass wool:0.79 in thick. Thermal conductivity:0.013 W/ftK (212F). Density: 2.5 lbs/ft3

3-**Copper pipes: Riser** .87in x 0.031in. Absorber: 0.31in x 0.019in

4-**Back insulation**: Rock wool:1.6 in Thermal conductivity: 0.013 W/ftK (212F) Density: 2.5 lbs/ft3

5-Back sheet: Galvanized steel

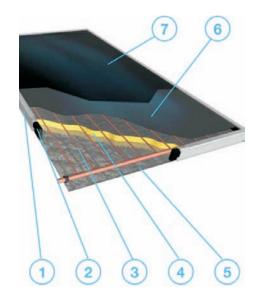
6-Absorber sheet: Pre painted aluminum

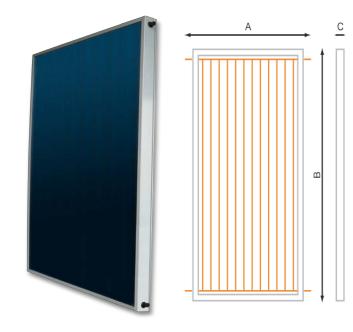
DIMENSIONS

Collector Type	27ft2
A [in]	49.2
B [in]	77.5
C [in]	3.7
Weight [lbs]	111
Absorber area [ft2]	24.5
Aperture area [ft2]	24.9
Absorber capacity [ft2]	26.9



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EVOP/EVOPN

SOLAR COLLECTOR	CERTIFIED SOLAR COLLECTOR				
CERTIFICATION AND RATING					
SOLAR	SUPPLIER:	EVOSOLAR 7243 Miller Drive Warren, MI 48092 USA			
	MODEL:	EVOP			
The a CONTINUATION CONTINUE	COLLECTOR TYPE:	Glazed Flat-Plate			
SRCC OG-100	CERTIFICATION#:	2007055A			
COLLECTOR THERMAL PERFORMANCE RATING					

L	COLLECTOR THERMAL PERFORMANCE RATING							
	Megajoules Per Panel Per Day				Thousands of BTU Per Panel Per Day			
	CATEGORY	CLEAR	MILDLY	CLOUDY	CATEGORY	CLEAR	MILDLY	CLOUDY
	(Ti-Ta)	DAY	CLOUDY	DAY	(Ti-Ta)	DAY	CLOUDY	DAY
	A (-5℃)	37.0	27.9	18.9	A (-9°F)	35.1	26.5	17.9
	B (5°℃)	33.4	24.3	15.2	B (9°F)	31.6	23.0	14.5
	C (20°C)	28.1	19.1	10.3	C (36 °F)	26.6	18.1	9.7
	D (50°C)	18.4	10.2	2.8	D (90°F)	17.5	9.7	2.6
	E (80°C)	9.7	3.0	0.0	E (144°F)	9.2	3.0	0.0

A- Pool Heating (Warm Climate) B- Pool Heating (Cool Climate) C- Water Heating (Warm Climate) D- Water Heating (Cool Climate) E-Air Conditioning



COLLECTOR TYPE:

EVOSOLAR 7243 Miller Drive Warren, MI 48092 USA EVOPN Glazed Flat-Plate 2007056A

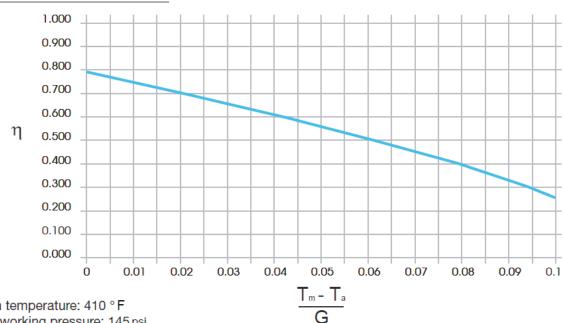
	COLLECTOR THERMAL PERFORMANCE RATING							
	Megajoules Per Panel Per Day				Thousands of BTU Per Panel Per Day			
	CATEGORY (Ti-Ta)	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY	CATEGORY (Ti-Ta)	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY
А	(-5 ℃)	35.4	26.9	18.5	A (-9 °F)	33.5	25.5	17.6
в	(5 °C)	30.0	21.6	13.2	B (9°F)	28.5	20.4	12.5
С	(20 °C)	22.5	14.2	6.6	C (36 °F)	21.3	13.5	6.2
D	(50 °C)	9.1	2.9	0.0	D (90°F)	8.6	2.8	0.0
E	(80 °C)	0.2	0.0	0.0	E (144°F)	0.2	0.0	0.0

A- Pool Heating (Warm Climate) B- Pool Heating (Cool Climate) C- Water Heating (Warm Climate) D- Water Heating (Cool Climate) E-Air Conditioning

Pressure Drop					
Flo	w	ΔΡ			
ml/s	քրո	Pa	in H ₂ O		
20.00	0.32	84.90	0.34		
50.00	0.79	259.1	1.0		
80.00	1.27	489.60	1.97		

Duesenne Duen

EFFICIENCY CURVE



Stagnation temperature: 410 ° F Maximum working pressure: 145 psi



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