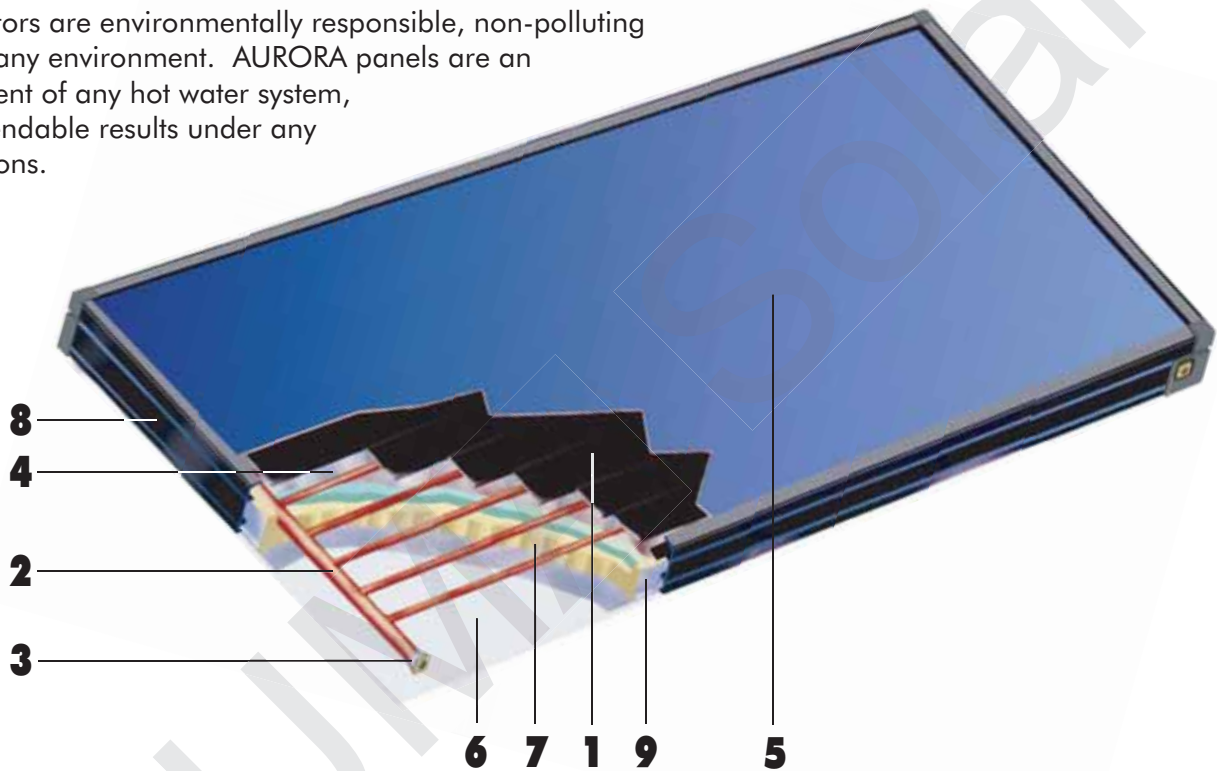


TECHNOLOGICALLY ADVANCED ENGINEERING FOR MAXIMUM PERFORMANCE

AURORA Solar Collectors are the most technologically advanced collectors on the market today. AURORA features the highest quality materials & state-of-the-art engineering to provide maximum efficiency & durability you can depend on for years to come.

AURORA collectors are environmentally responsible, non-polluting and reliable in any environment. AURORA panels are an important element of any hot water system, producing dependable results under any weather conditions.



1. Absorber Plate

Utilizing a state-of-the-art ultrasound weld, copper fins and risers provide superior thermal connectivity between the fins and risers. Revolutionary coating is black chrome on nickel, producing a premium selective surface with maximum efficiency for solar energy use.
Absorbability = 0.95
Emissivity = 0.12

2. Tubing Grid

3/8" copper risers are brazed to 1" copper mainfolds for optimal flow distribution.

3. Piping Connection

Four 1" Type M copper tubes.

4. Aluminum Foil

Attached to the insulation, acts as a barrier against out-gassing.

5. Solar Glass Glazing

A single pane of 1/8" thick solar glass is patterned to reduce reflection and tempered to maximize strength and durability.

*Iron oxide content:

0.03%

*Solar transmittance: 91%

6. Back Plate

Fiberglass Backing: Reduces torque in the frame, is lightweight and eliminates the possibility of any electrolysis issues for maximum benefit.

7. Insulation

1-3/16" isocyanurate foam cast under and around the side of the absorber plate, retains the heat of the water in the collector. DFC-free P.U. meets U.S. and European standards.

8. Casing

All aluminum extrusion casings create a sleek framewall. Unique extruded profile allows easy anchoring to the roof (shingle, tile, tar) or collector stands.

9. Gaskets

All-around EPDM gasket. Highly resistant to temperature differences and UV radiation. Absorbs the differential expansion of frame and glazing.

AURORA Solar Collectors by Solene™



SPECIFICATIONS AND EFFICIENCIES

models

general specifications

	SLAR-32	SLAR-40
Gross Area (sq. ft.)	31.78	40.38
Net Aperture Area (sq. ft.)	30.53	37.44
Ratio Net/Gross Area	0.95	0.95
Length (in.)	96.48"	117.96"
Width (in.)	47.4"	47.4"
Thickness (in.)	3.96"	3.96"
Weight (lbs.)	105.8	132.2
Fluid Capacity (gal.)	0.8	1.05
Recommended Flow Rate	0.7	0.7
Test Pressure (psi)	300	300
Operating Pressure (psi)	145	145

efficiency ratings

	SLAR-32			SLAR-40		
	Clear Day	Mildly Day	Cloudy Day	Clear Day	Mildly Day	Cloudy Day
A (-9° F)	46.1	34.8	23.7	56.5	42.7	29.0
B (9° F)	41.3	30.1	18.9	50.7	36.9	23.2
C (36° F)	34.5	23.5	12.6	42.4	28.8	15.4
D (90° F)	22.4	12.4	3.3	27.6	15.3	4.1
E (144° F)	12.0	4.1	0.0	14.9	5.1	0.0

Efficiency Equation [NOTE: Based on gross are and (P)=Ti-Ta]j
 S I UNITS: $\eta=0.7820 -4.28290 (P)/I -0.00484 (P)^2/I$
 I P UNITS: $\eta=0.7820 -0.7544 (P)/I -0.0005 (P)^2/I$
 Y INTERCEPT SLOPE
 0.8 -4.6 W/m².°C
 0.8 -0.8 Btu/hr.ft².°F

Efficiency Equation [NOTE: Based on gross are and (P)=Ti-Ta]j
 S I UNITS: $\eta=0.7840 -4.28050 (P)/I -0.00484 (P)^2/I$
 I P UNITS: $\eta=0.7840 -0.7540 (P)/I -0.0005 (P)^2/I$
 Y INTERCEPT SLOPE
 0.8 -4.6 W/m².°C
 0.8 -0.8 Btu/hr.ft².°F

Ti = Water temperature (T out - T in)/2 F
 Ta = Ambient temperature F
 I= Solar radiation Btu/hr/ft2



OG-100 Collector Approved



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