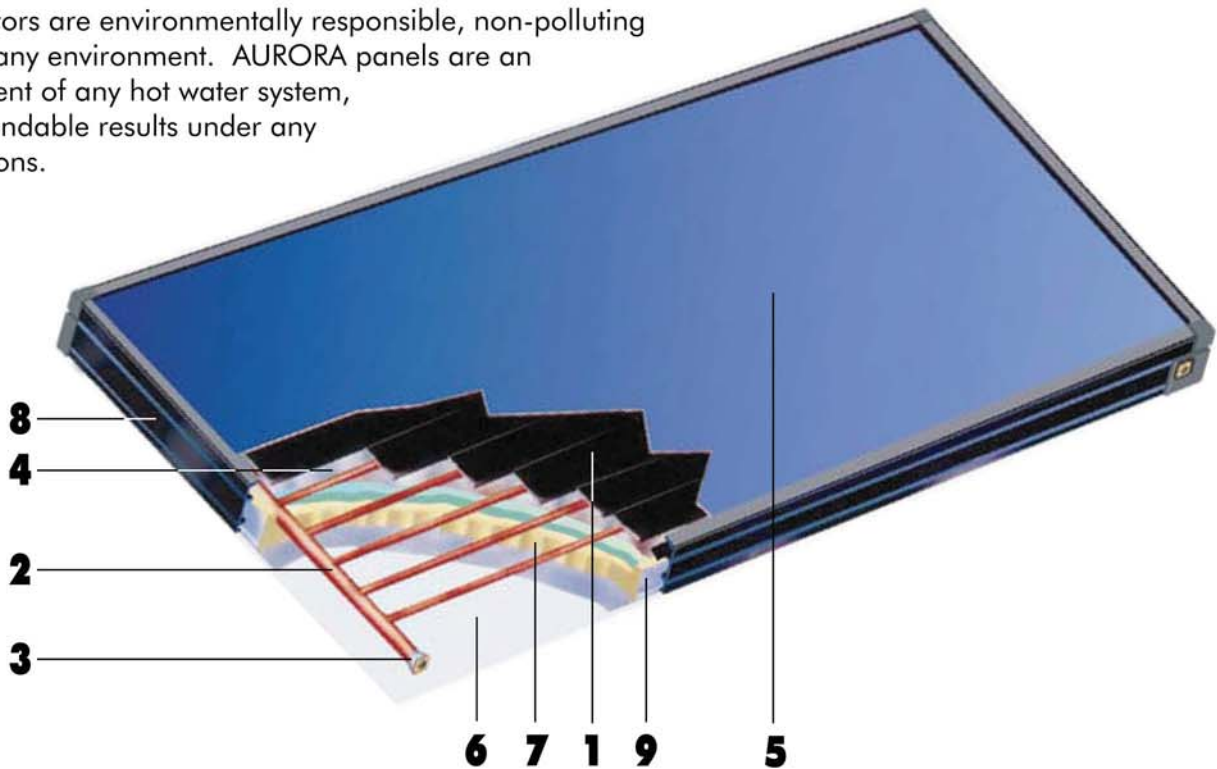


## TECHNOLOGICALLY ADVANCED ENGINEERING FOR MAXIMUM PERFORMANCE

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" polyurethane 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

Gross Area (sq. ft.)  
 Net Aperture Area (sq. ft.)  
 Ratio Net/Gross Area  
 Length (in.)  
 Width (in.)  
 Thickness (in.)  
 Weight (lbs.)  
 Fluid Capacity (gal.)  
 Recommended Flow Rate  
 Test Pressure (psi)  
 Operating Pressure (psi)

#### SLAR-30

24.51  
 23.46  
 0.95  
 74.4"  
 47.4"  
 3.96"  
 77.8  
 0.6  
 0.7  
 300  
 145

#### SLAR-32

31.78  
 30.53  
 0.95  
 96.48"  
 47.4"  
 3.96"  
 105.8  
 0.8  
 0.7  
 300  
 145

#### SLAR-40

38.87  
 37.44  
 0.95  
 117.96"  
 47.4"  
 3.96"  
 132.2  
 1.05  
 0.7  
 300  
 145

#### efficiency ratings

Low Temp (95° F)  
 Intermediate Temp (122° F)  
 High Temp (212° F)  
 Btu per Square Foot  
 Efficiency Equation

#### SLAR-30

28,700  
 23,800  
 10,300  
 970  
 78.2-81 (Ti-Ta)/I

#### SLAR-32

37,300  
 30,900  
 13,400  
 974  
 78.5-81 (Ti-Ta)/I

#### SLAR-40

45,700  
 37,900  
 16,400  
 976  
 78.7-81 (Ti-Ta)/I

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

Efficiency ratings as measured by the  
 Florida Solar Energy Center (FSEC).



OG-100 Collector Approved



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