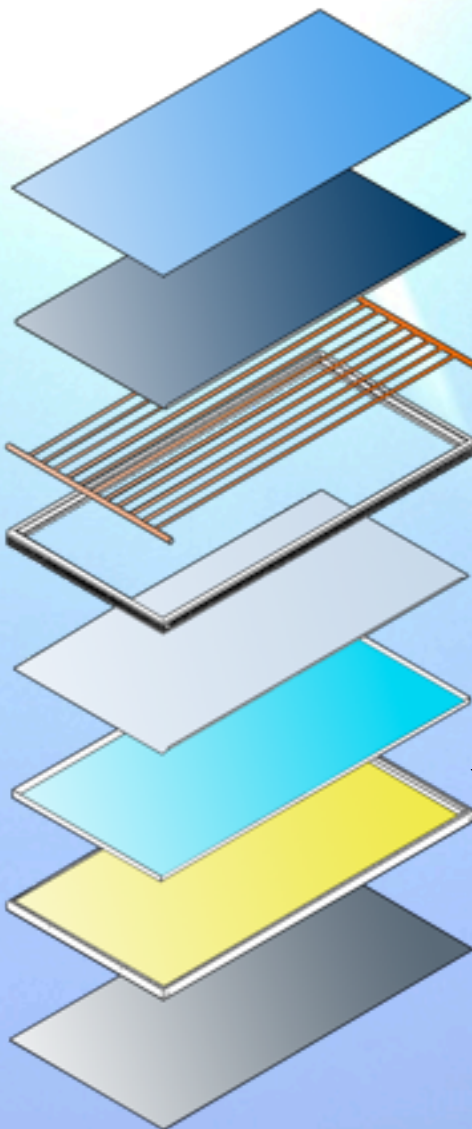


SOLARHOT

Platinum Collector

Designed to exceed the requirements of the most demanding customer - attractive collectors with great performance for generations to come.



The single pane 4 mm solar glass is patterned to reduce reflection and is tempered to **maximize strength and durability**. The low iron oxide content of 0.03% enables a **high solar transmittance** of 91%.

The absorber plate consists of copper fins ultrasonically welded to copper risers, this provides excellent heat transfer between the fins and risers, ensuring high efficiency. The absorber plate is coated with a German engineered blue sputtered coating, **the most efficient absorber coating without exception**. The absorption rate is 95% with extremely low emissivity of 5%.

½" copper risers are brazed to 1" copper manifolds for **optimal flow distribution**. SOLARHOT collectors have 11 risers - that's 10% more risers than other leading flatplate collectors.

The black aluminum extrusion casing looks **attractive** on a roof. The unique design does not have any obtrusive bolts or screws. The all-around EPDM gasket is highly resistant to temperature variations and UV radiation. The gasket absorbs the differential expansion of the frames and glazing.

We spray polyurethane foam insulation into the cavity eliminating any issues with air infiltration. On top of the polyurethane we add a layer of mineral wool for extra insulation to further **lock in the heat**. Attached to the insulation, an aluminum foil radiant barrier also acts as a barrier against out-gassing.

The aluminum back plate is **lightweight, long lasting and corrosion resistant**.



SOLARHOT Collector Specification Sheet

Platinum

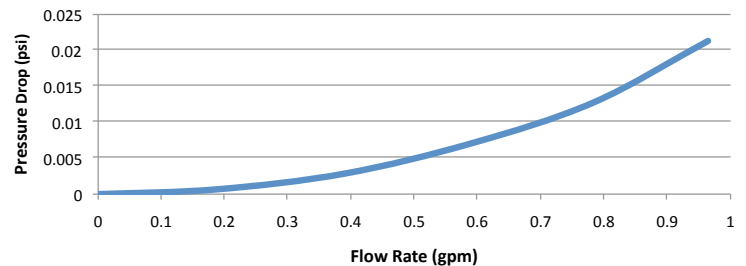
Category (Ti - Ta)	Clear 2000 Btu/ft ² •day			Mildly Cloudy 1500 Btu/ft ² •day			Cloudy 1000 Btu/ft ² •day		
	S-SC-126P26	S-SC-126P32	S-SC-126P40	S-SC-126P26	S-SC-126P32	S-SC-126P40	S-SC-126P26	S-SC-126P32	S-SC-126P40
T inlet fluid - T ambient air	Thousands of BTU per Panel per Day								
A (-9°F)	33	40	50	25	30	38	17	21	25
B (9°F)	30	37	45	22	27	33	14	17	21
C (36°F)	26	31	38	18	21	26	10	12	14
D (90°)	17	21	25	10	12	14	3	3	4
E (144°F)	9	11	14	3	4	4			

Silver

Category (Ti - Ta)	Clear 2000 Btu/ft ² •day			Mildly Cloudy 1500 Btu/ft ² •day			Cloudy 1000 Btu/ft ² •day		
	S-SC-126S26	S-SC-126S32	S-SC-126S40	S-SC-126S26	S-SC-126S32	S-SC-126S40	S-SC-126S26	S-SC-126S32	S-SC-126S40
T inlet fluid - T ambient air	Thousands of BTU per Panel per Day								
A (-9°F)	33	40		25	31		17	21	
B (9°F)	28	35		20	25		6	15	
C (36°F)	21	26		14	17		3	8	
D (90°)	9	10		3	3				
E (144°F)									

	S-SC-126P26 S-SC-126S26	S-SC-126P32 S-SC-126S32	S-SC-126P40 S-SC-126S40
Length	80.3 in	96 in	120 in
Width	47.2 in	47.2 in	47.2 in
Depth	3.7 in	3.7 in	3.7 in
Dry Weight	Platinum Silver	98 lbs 89 lbs	121 lbs 110 lbs
Fill Weight	Platinum Silver	106 lbs 97 lbs	137 lbs 137 lbs
Fluid Capacity	1 gal	1.1 gal	1.2 gal
Recommended Flow Rate	0.8-4.5 gpm		
Max Operating Pressure	15 psi		
Nominal Header Diameter	1 in		
Header Center to Center	75 - 3/4 in	92 - 1/2 in	116 - 1/2 in
Frame	black anodized aluminum		
Absorber	Platinum - SunSelect Tinox coating on copper fins Silver- Selective black paint on copper fins		
Absorptivity / Emissivity	Platinum - 95% / 5% Silver - 90% / 25%		
Light Transmission	91%		

Collector Pressure Drop



Collector Efficiency Curve

