SPP-25
Evacuated Tube Collector

- ☐ *SRCC Certified: OG-100 & OG-300*
- ☐ *High-Performance, High Efficiency*
- ☐ *Top Quality Materials & Construction*

The SPP-25 is a high performance, high-efficiency evacuated tube collector.

The 25 tube collectors is used for domestic hot water systems to provide a cost effective solution to reduce energy expendatures.

SRCC certified, these collectors are perfect for residential and commercial applications alike.

- ☐ SRCC Certified: Collector is OG-100 and OG-300 certified, allowing the SPP-25 to qualify for Federal, State, and local incentives, such as rebates and tax credits
- ☐ Cost Effective: Smaller size makes the SPP-25 perfect for smaller residential and commercial applications; allows for a more affordable solar thermal system
- ☐ Stainless Steel Frame: Frame made from stainless steel material, with 24" centers for easier mounting and installation
- ☐ Borosilicate Glass Tubes: Glass tubes made from high quality borosilicate glass, which is resistant to thermal shock, stress, and rated for 1" hail impact
- ☐ Extra Tubes: Each SPP-25 collector comes with 1 extra spare tube in case of tube damage during installation
- ☐ High performance: High heat performance in all weather conditions makes the SPP-25 perfect for domestic hot water and small space heating applications – regardless of climate
- ☐ Size: Smaller size with high output makes the SPP-25 ideal for areas where there are space limitations, such as in high-density cities or smaller homes

SPP-25 Specifications

Collector Data	
Number of Tubes	25
Dimensions	81" x 79"
Absorber Area	37.21
Fluid Capacity	0.4gl
Dry Weight	183lbs
Warranty	10 Years

Casing and Frame Specifications	
Header Casing Material	Aluminum
Frame Material	Stainless Steel
Manifold Insulation Material	Rock Wool
Manifold Insulation Thickness	2.36"
Internal Manifold Piping Material	1 ¼" Copper – Schedule M
Sealing Material	Silicone
Installation Angle Range	15° - 90°

Evacuated Tube / Heat Pipe Specifications	
Tube Length	70.8"
Emissivity Coefficient	8%
Tube Absorber Coating	Copper, Stainless Steel, Aluminum
Absorptive Coefficient	92%
Glass Material	Borosilicate Glass
Outer Glass Tube Diameter	2.28"
Inner Glass Tube Diameter	1.85"
Vacuum	5 x 10^{-2} PA
Stagnation Temperature	482°F
Heat Pipe Material	Copper
Hail Resistance	~1" Diameter

Manifold / Operation Specifications	
Recommended Manifold Fluid Content	Water or Water/Glycol
Maximum Operating Pressure	169 psi
Recommended Flow Rate	0.8 ~ 1.2 gpm

SRCC Certification Data: Collector Thermal Performance Rating

BTU per Panel Per Day			
Category (Ti-Ta)	Clear Day 2000 Btu/ft2/day	Mildly Cloudy 1500 Btu/ft2/day	Cloudy Day 1000 Btu/ft2/day
A (-9F)	39,000	30,000	20,000
B (9F)	38,000	28,000	19,000
C (36F)	36,000	26,000	16,000
D (90F)	30,000	21,000	11,000
E (144F)	24,000	15,000	6,000

(Ti) – Temperature Inlet: Refers to temperature of fluid entering manifold.
(Ta) – Temperature Ambient: Refers to the ambient temperature, or the outside air temperature.
(Ti-Ta) – Refers to the inlet fluid temperature subtracted from the outside ambient temperature. For example, if the temperature entering the manifold is 100F, and the outside air temperature is 80F, the Ti-Ta would be 20F.

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