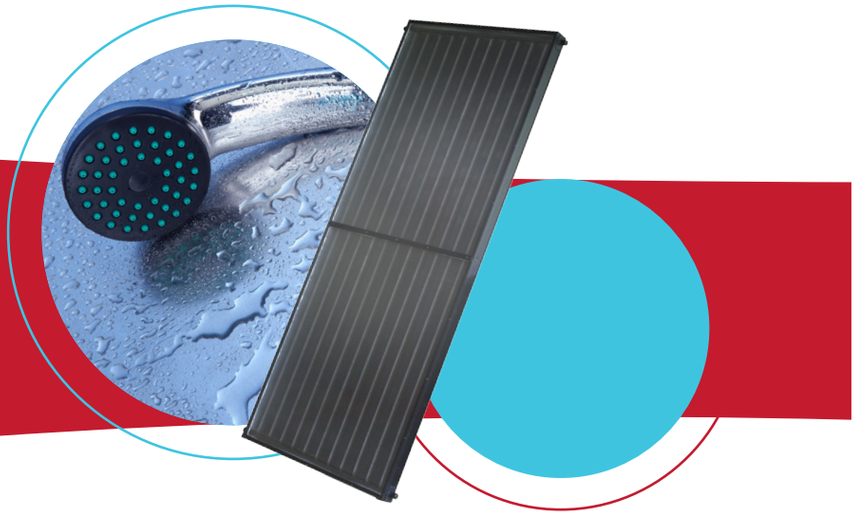
Solene
Solar Hot Water Systems

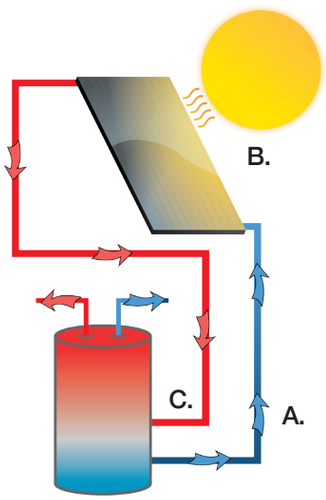
SLSG-40



HOT WATER WHEN YOU NEED IT

Get all of the convenience of traditional water heaters while eliminating traditional costs, emissions, and hassles.

THE FEATURES	ADVANTAGES
Financial Benefits	Solene systems reduce water-heating costs by 75-90%, lowering your overall power bill by up to 30%. Thousands of dollars may be deducted from your tax return. The return on investment can occur in less than 5 years (based on current cost of energy and available rebates).
Quality Guaranteed	Solene products are SRCC certified and are designed to exceed the minimum standards for system durability, reliability, safety, and operation. The 10-year Warranty is the best in the industry; no one else can compete.
Constant Heating	A back-up heating element means you always have hot water, even during extended cloudy periods.
Green	A Solene system will reduce the air pollution created by your traditional system. Replacing an electric system will displace 25 tons of CO2 emissions over a 10-year period. Not only is the system green for your wallet, but it's green for the environment too.



Solar Hot Water: How It Works

A. Water in the storage tank is pumped through a series of valves to your solar collector.
B. As the water rises through the solar collector, it is heated by the sun's thermal energy.
C. The heated water is then returned back to the tank,where it is stored until used.

CERTIFICATION DATA

- SRCC OG-100 Certified (collectors)
- SRCC OG-300 Certified (systems)
- FSEC Certified (collector & systems)
- IAPMO/USEC Certified

WHAT SRCC CERTIFICATION MEANS TO YOU

The SRCC currently operates two major solar programs: collector certification (OG-100), and heating system certification (OG-300). The OG-100 collector certification program applies to that part of a solar energy system that is exposed to the sun and collects the sun's heat. The collectors can be used to heat water, air or other heat transfer media. The OG-300 rating and certification program for solar hot water systems integrates results of collector tests with a performance model for the entire systems and determines whether systems meet minimum standards for system durability, reliability, safety and operation. Factors affecting total system design, installation, maintenance and service are also evaluated.

TECHNICAL INFORMATION AND SPECIFICATIONS

SOLENE SLSG-40

Thousands of BTU's per day per panel

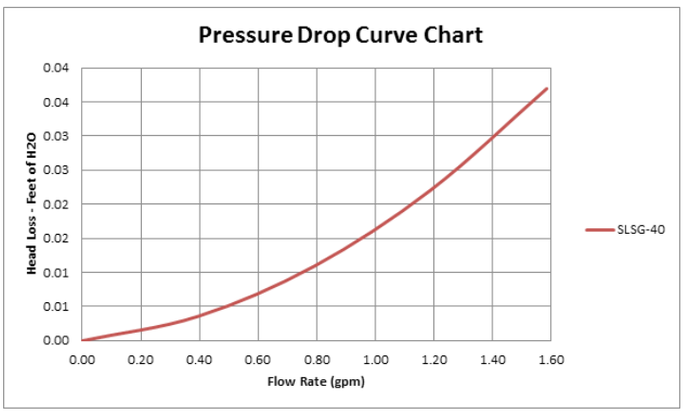
SOLAR INSOLATION

Category T(°F)		2,000 BTU/ft²	1,500 BTU/ft²	1,000 BTU/ft²
Water temp. minus air temp.	A (-9)	55.0	41.5	28.0
	B (+9)	50.6	37.1	23.7
	C (+36)	42.8	29.7	16.6
	D (+90)	26.1	14.3	3.7
	E (+144)	10.0	1.6	0.0

KEY: **A** - Pool Heating (Warm Climate) **B** - Pool Heating (Cool Climate) **C** - Water Heating (Warm Climate) **D** - Space & Water Heating **E** - Commercial Hot Water + Cooling

CERTIFICATION DATA

Certifying Organization	SLSG-40
National Standard SRCC ISO 9806	42.8 kBTU/day η=0.727 – 0.54921(P/G) -0.00257(P2/G)
Florida Standard FSEC ISO 9806	34.7 kBTU/day η=0.727 – 0.550(P/G) -0.003(P2/G)



COLLECTOR DATA

Collector Model	SLSG-40
Gross Area (sq. ft.)	40
Net Aperture Area (sq. ft.)	37.4
Ratio Net/Gross Area	0.94
Length (in.)	120
Width (in.)	48
Thickness (in.)	3.875
Dry Weight (lbs)	141.4
Fluid Capacity (gal.)	1.32
Recommended Flow Rate (GPM)	1
Test Pressure (psi)	160
Operating Pressure (psi)	80

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Altamonte Springs, FL 32714
1.800.79.SOLAR
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