

Technical Information and Specifications



| Collector Model | SLAR-24 | SLAR-32 | SLAR-40 | SLSG-40 | SLSG-40+ |
|-----------------------------|---------|---------|---------|---------|----------|
| Gross Area (sq. ft.) | 24 | 32 | 40 | 40 | 40 |
| Net Aperture Area (sq. ft.) | 23.03 | 30.84 | 38.65 | 37.4 | 37.4 |
| Ratio Net/Gross Area | 0.96 | 0.96 | 0.96 | 0.94 | 0.94 |
| Length (in.) | 72 | 96 | 120 | 120 | 120 |
| Width (in.) | 48 | 48 | 48 | 48 | 48 |
| Thickness (in.) | 3.875 | 3.875 | 3.875 | 3.875 | 3.875 |
| Dry Weight (lbs.) | 78 | 106 | 140 | 141 | 141 |
| Fluid Capacity (gal.) | 0.8 | 1.1 | 1.3 | 1.3 | 1.3 |
| Recommended Flow Rate | 0.6 | 0.8 | 1.0 | 1.0 | 1.0 |
| Test Pressure (psi) | 162 | 162 | 162 | 162 | 162 |
| Operating Pressure (psi) | 108 | 108 | 108 | 108 | 108 |

Solene®

Solar Hot Water Systems



SLAR-24

Solar Insolation

| Category T(°F) | | 2,000 BTU/ft ² | 1,500 BTU/ft ² | 1,000 BTU/ft ² |
|-----------------------------|----------|---------------------------|---------------------------|---------------------------|
| Water Temp. Minus Air Temp. | A (-9) | 35.4 | 26.8 | 18.3 |
| | B (+9) | 32.0 | 23.4 | 14.9 |
| | C (+36) | 27.1 | 18.7 | 10.4 |
| | D (+90) | 18.8 | 11.0 | 3.5 |
| | E (+114) | 12.1 | 4.8 | 0.0 |

Thousands of BTU's Per day per panel

SLAR-32

Solar Insolation

| Category T(°F) | | 2,000 BTU/ft ² | 1,500 BTU/ft ² | 1,000 BTU/ft ² |
|-----------------------------|----------|---------------------------|---------------------------|---------------------------|
| Water Temp. Minus Air Temp. | A (-9) | 47.3 | 35.9 | 24.4 |
| | B (+9) | 42.8 | 31.3 | 19.9 |
| | C (+36) | 36.4 | 25.1 | 13.9 |
| | D (+90) | 25.3 | 14.8 | 4.8 |
| | E (+114) | 16.4 | 6.5 | 0.0 |

Thousands of BTU's per day per panel

SLAR-40

Solar Insolation

| Category T(°F) | | 2,000 BTU/ft ² | 1,500 BTU/ft ² | 1,000 BTU/ft ² |
|-----------------------------|----------|---------------------------|---------------------------|---------------------------|
| Water Temp. Minus Air Temp. | A (-9) | 59.3 | 44.9 | 30.6 |
| | B (+9) | 53.7 | 39.3 | 25.0 |
| | C (+36) | 45.6 | 31.5 | 17.5 |
| | D (+90) | 31.7 | 18.6 | 6.0 |
| | E (+114) | 20.6 | 8.2 | 0.0 |

Thousands of BTU's per day per panel

SLSG-40

Solar Insolation

| Category T(°F) | | 2,000 BTU/ft ² | 1,500 BTU/ft ² | 1,000 BTU/ft ² |
|-----------------------------|----------|---------------------------|---------------------------|---------------------------|
| 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 (+114) | 10.0 | 1.6 | 0.0 |

Thousands of BTU's per day per panel

SLSG-40+

Solar Insolation

| Category T(°F) | | 2,000 BTU/ft ² | 1,500 BTU/ft ² | 1,000 BTU/ft ² |
|-----------------------------|----------|---------------------------|---------------------------|---------------------------|
| Water Temp. Minus Air Temp. | A (-9) | 59.3 | 44.9 | 30.6 |
| | B (+9) | 53.7 | 39.3 | 25.0 |
| | C (+36) | 45.6 | 31.5 | 17.5 |
| | D (+90) | 31.7 | 18.6 | 6.0 |
| | E (+114) | 20.6 | 8.2 | 0.0 |

Thousands of BTU's per day per panel

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

Manufactured & Distributed By:

Solene

Solar Hot Water Systems

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a Magen eco-Energy Company

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AR & SG Series

Solene Solar Hot Water Systems offer a clean, cost-effective way to heat your water!

Residential

Get all the convenience of traditional water heaters while eliminating traditional costs, emissions, and hassles. For over 25 years, Solene residential solar products have been providing energy-efficient hot water to homes all over the United States. Solene's cutting edge solar thermal technology gives you immediate savings on your monthly power bill. Along with federal tax credits, your utility company and state/local government may also provide rebates on your solar water heating purchase.



Commercial

Solar hot water isn't just for homeowners, it's a great choice for businesses too. For many businesses and commercial buildings, heating water can be a major expense. Our Solene solar hot water systems are designed for maximum performance, allowing you to put the money you've saved back into your business. Once your system is installed, you can be happy knowing you've helped the environment and can promote your eco-friendly building.



- Reduce your water heating costs up to 85%
- Fully automated pump and controller
- Always have hot water by adding a back-up heating element
- Reduce air pollution created by your traditional hot water system
- Industry leading 10 year limited warranty with bonus lifetime limited warranty

Savings Comparison

By installing a Solene Solar Hot Water System, you can expect to save some green while going green!

Your authorized Solene dealer can provide a personalized savings analysis upon request!

* Costs are based on a 4-person family utilizing an electric resistance water heater. Utility rates and fuel sources may vary state by state.

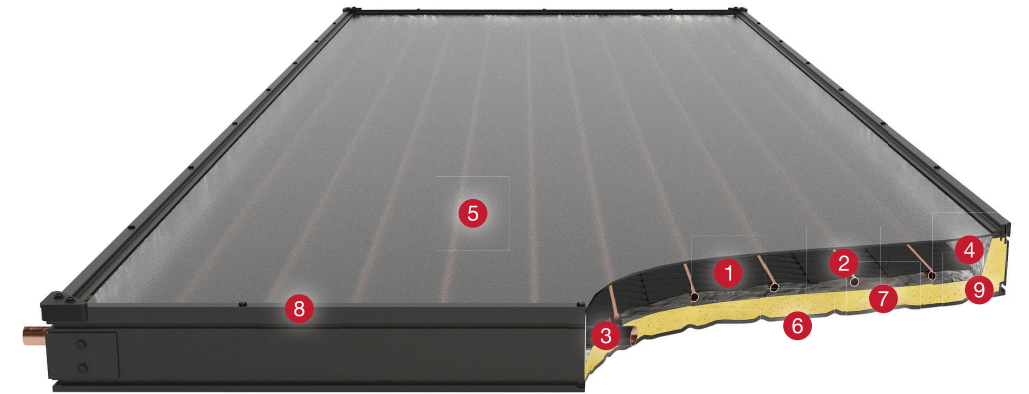
- Expense to heat water with Solene
- Expense to heat water without Solene

| Average Monthly Cost* | |
|-----------------------|----------|
| \$12 | \$60 |
| Average Annual Cost* | |
| \$144 | \$720 |
| Lifetime (25 Years)* | |
| \$3,600 | \$18,000 |

Design Features

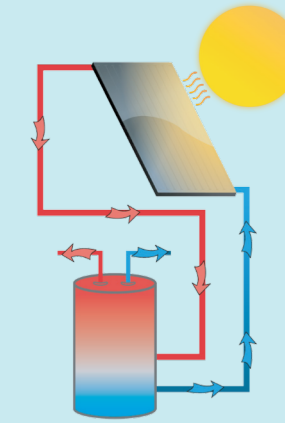
Solene panels are designed to be sleek and efficient.

1. Absorber Plate
2. Tubing Grid
3. Piping Connection
4. Aluminum Foil
5. Solar Glass Glazing
6. Back Plate
7. Insulation
8. Casing
9. Gaskets



How It Works

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



Split Glass Advantages

- Improved cost per BTU
- Increased strength and rigidity from structural mid-rail and dual glazing
- Designed to handle harsh conditions; extremely high snow and wind loads
- Redesigned frame results in improved durability and lower weight

Total Solutions

UMA Solar offers a total solution for your solar hot water needs by also distributing the best hot water tanks, circulation pumps and controllers in the industry.

Certification Data

- SRCC OG-100 Certified (collectors)
- SRCC OG-300 Certified (systems)



| Certifying Organization | SLAR-24 | SLAR-32 | SLAR-40 & SLSG-40+ | SLSG-40 |
|------------------------------------|--|--|--|--|
| National Standard SRCC ISO 9806 | 27.1 kBTU/day $\eta=0.740 - 0.716(P/G)$ | 36.4 kBTU/day $\eta=0.743 - 0.715(P/G)$ | 43.8 kBTU/day $\eta=0.745 - 0.715(P/G)$ | 43.8 kBTU/day $\eta=0.745 - 0.715(P/G)$ |