





# Solene Solar Hot Water Systems by AET offers a clean, cost-effective way to heat your water!

## **Residential**

Get all the convenience of traditional water hearters while eliminating traditional costs, emissions, and hassles. For over 25 years, Solene by AET residential solar products have been providing energy-efficient hot water to homes all over the United States. Solene by AET'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 by AET 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 activated by the sun
- 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 by AET, you can expect to save some green while going green!

Your authorized Solene by AET 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 by AET

Expense to heat water without Solene by AET



\$18,000

\$3,600

## **Design Features**

- Wind load tested to allowable loads of 51spf
- 30+ year design life
- Extruded aluminum frame and battens
- Quick-lock mounting hardware
- Aircraft aluminum pin grip rivets



#### **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.



#### **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)
- FSEC Certified
  - IAPMO/USEC Certified



Certifying Organization	MS-20	MS-26	MS-32	MS-40
National Standard	22 kBTU/day	25.5 kBTU/day	32.3 kBTU/day	40.5 kBTU/day
SRCC ISO 9806	η=0.717 - 0.63858(P/G) - 0.00268(P²/G)	η=0.722-0.88560 (P/G)- 0.00182(P²/G)	η=0.728 - 0.88560(P/G) - 0.00184(P²/G)	η=0.732 – 0.5.89360(P/G) -0.00185(P²/G)

#### **Technical Information and Specifications**

Collector Model	MS-20	MS-26	MS-32	MS-40
Gross Area (sq. ft.)	20.68	25.97	32.62	40.60
Net Aperture Area (sq. ft.)	18.43	23.37	29.60	38.54
Ratio Net/Gross Area	0.89	0.90	0.91	0.95
Length (in.)	62.125	78.125	98.125	122.125
Width (in.)	47.938	47.875	47.875	47.875
Thickness (in.)	3.192	3.125	3.125	3.125
Dry Weight (lbs.)	79	91	116	151
Fluid Capacity (gal.)	0.60	0.90	1.05	1.22
Recommended Flow Rate	1.25	1.25	1.25	1.50
Test Pressure (psi)	160	160	160	160
Operating Pressure (psi)	100	100	100	100

MS-20	

MS-20		Solar Insolation			
Category T(°F)		2,000 BTU/ft <sup>2</sup>	1,500 BTU/ft²	1,000 BTU/ft <sup>2</sup>	
	A (-9)	29.2	22.1	15.1	
mp. Temp	B (+9)	26.6	19.5	12.5	
er Te s Air	C (+36)	22.0	15.1	8.3	
Wat Minu:	D (+90)	12.4	6.4	1.1	
-	E (+114)	3.7	0.	0.0	

Thousands of BTU's Per day per panel

MS-26		Solar Insolation			
Category T(°F)		2,000 BTU/ft <sup>2</sup>	1,500 BTU/ft <sup>2</sup>	1,000 BTU/ft <sup>2</sup>	
ċ	A (-9)	36.7	27.9	19.1	
тетр. Тетр	B (+9)	32.2	23.3	14.5	
er Te s Air	C (+36)	25.5	16.8	8.3	
Wat Minu:	D (+90)	12.9	5.4	0.1	
-	E (+114)	2.4	0.0	0.0	

Thousands of BTU's per day per panel

**Distributed By:** 



MS-32		Solar Insolation			
Category T(°F)		2,000 BTU/ft <sup>2</sup>	1,500 BTU/ft <sup>2</sup>	1,000 BTU/ft <sup>2</sup>	
ė	A (-9)	46.5	35.3	24.2	
Temp.	B (+9)	40.8	29.5	18.4	
er Te s Air	C (+36)	32.3	21.3	10.5	
Wat Minu:	D (+90)	16.4	6.8	0.1	
	E (+114)	3.1	0.0	0.0	

Thousands of BTU's per day per panel

MS-40		Solar Insolation			
Category T(°F)		2,000 BTU/ft <sup>2</sup>	1,500 BTU/ft²	1,000 BTU/ft <sup>2</sup>	
ċ	A (-9)	58.2	44.1	30.2	
тетр. Тетр	B (+9)	51.0	37.0	23.0	
er Te s Air	C (+36)	40.5	26.7	13.2	
Wat Minus	D (+90)	20.6	8.6	0.2	
-	E (+114)	3.9	0.0	0.0	

Thousands of BTU's per day per panel

For more information, contact your local Solene by AET dealer or visit: www.umasolar.com