

100NG | 100LP Solar Hybrid Gas Water Heaters

Provides maximum water-heating efficiency in one appliance by combining advanced Sun Bandit PV micro-grid technology with natural gas or propane.



Features

- 100 Gallon Capacity with Dual Magnesium Anode Rods
- (4) Sun Bandit PV Micro-grid Elements with additional 76,000 BTU Gas Burner
- Glass-fused-to-steel Tank Interior with 2" Non-CFC Foam Insulation
- Complete with Mixing Valve, T&P, Brass Drain, and Temperature Gauge
- Vents horizontally or vertically with 3" or 4" PVC, ABS or CPVC
- Zero clearance installation with room or outside combustion air
- Optional internal heat exchange coil provides a variety of heating options
- 6 year tank warranty

30% Federal Tax Credits and multiple State and Utility credits may apply*

* Consult with your tax advisor for availability and conformance depending upon specific usage



Patent(s) Pending

Optional internal heat exchange coil provides a variety of heating options

Benefits

- Up to 4,960 watts of Sun Bandit micro-grid power per tank, providing unmatched economic benefits by maximizing the FREE energy of the sun while seamlessly integrating the fossil fuel when necessary.
- Adaptable to all types of compatible power sources including photovoltaic, wind turbines, generator, batteries, grid or other power supply sources.
- Can be used in water heating or space heating applications as a stand alone unit or as a pre-heat.
- "All in one" convenience provides economy and space savings.
- **NO NET METER REQUIRED** — Sun Bandit advanced micro-grid technology eliminates costly and time consuming net meter applications, permits and fees.

Start using the FREE Energy of the Sun Today!

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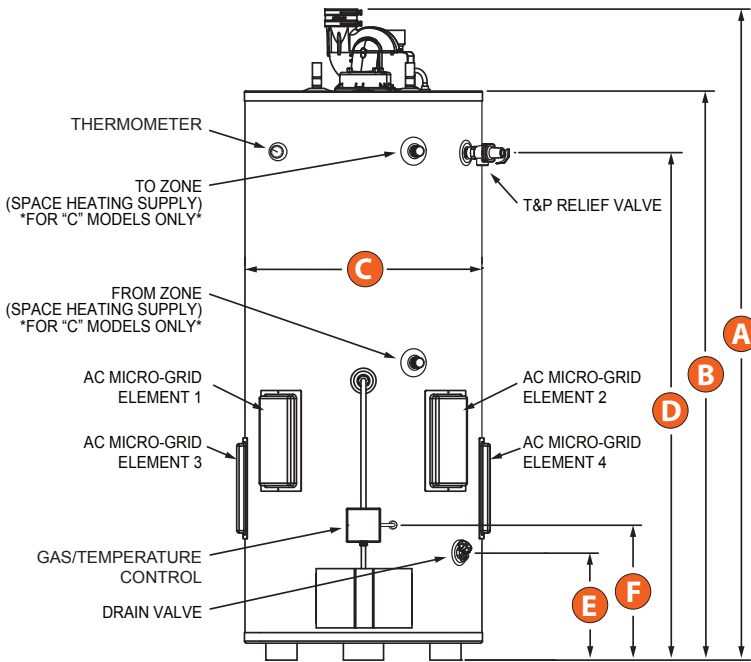
Solar Hybrid Gas Water Heaters

Technical Specifications

Patent(s) Pending

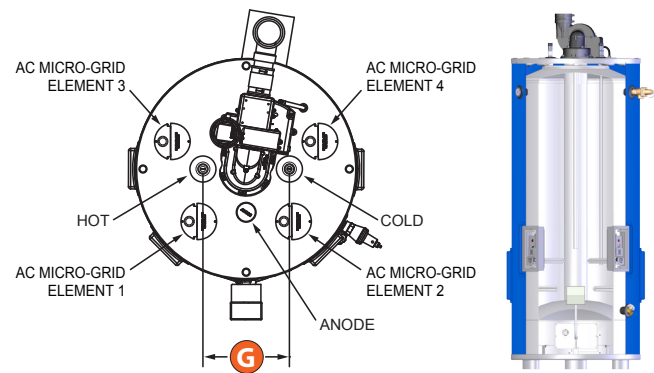
Optional internal heat exchange coil

Storage Tank Setpoint (°F)	180			140	
Supply Temperature (°F)	140	120	100	120	100
Return Temperature (°F)	120	100	80	100	80
Flow Rate (GPM)	3.7	5.0	5.0	1.9	2.4
BTU/HR)	31,500	43,000	43,000	18,429	23,889



Pipe Ø (In)	Minimum and Maximum Vent and Air Intake Pipe Lengths (Two-Pipe Terminations)			
	Minimum Equivalent Pipe Length (per pipe run)		Maximum Equivalent Pipe Length (per pipe run)*	
	Air Intake FT (m)	Vent FT (m)	Air Intake FT (m)	Vent FT (m)
3	5 (1.52)	12 (3.66)	55 (16.76)	55 (16.76)
4	5 (1.52)	12 (3.66)	85 (25.91)	85 (25.91)

*Note: For concentric terminations, subtract 10 feet from maximum equivalent pipe length. Equivalent straight pipe length of 90° elbow equals 5 feet.



Capacities, Inputs and Dimensions

Models	Storage GAL (L)	Rated Max. Input (kW) (PV Elements)	PV Element Rating (kW)	Rated Input (Gas) BTU/HR (kW)	Recovery (Gas) @ 100° F rise GAL/HR (L/HR)	1st Hr. delivery (Gas) @ 100° F rise GAL (L)	Dimensions Inches (cm)							Inlet Conn. Dia. (NPT)	Outlet Conn. Dia. (NPT)	Gas Conn. Dia. (NPT)	Shipping Weight LBS (kg)
							A	B	C	D	E	F	G				
SB-100NG-3000	100 (379)	12.0	3.0	76,000 (22.3)	74 (280)	155 (587)	76.88 (195)	67.25 (171)	28.00 (71)	60.00 (152)	28.19 (72)	16.00 (41)	11.00 (28)	1.00	1.00	0.50	530 (240)
SB-100NG-C-3000	98 (371)	12.0	3.0	76,000 (22.3)	74 (280)	152 (575)	76.88 (195)	67.25 (171)	28.00 (71)	60.00 (152)	28.19 (72)	16.00 (41)	11.00 (28)	1.00	1.00	0.50	572 (259)

Warning: Installation should be in accordance with all national and/or local codes. In the absence of local codes, refer to NFPA 54 or ANSI Z21.10.1.

Caution: The recommended maximum hot water temperature setting for normal residential use is 120°F. Manufacturer recommends a tempering valve or anti-scald valve be installed and used according to the manufacturer's directions to prevent scalding. Sun Bandit[®] Hybrid Water Heaters include a mixing valve that will minimize potential scalding when installed properly.

Electrical Rating, Sun Bandit[®] Upper and Lower AC Micro-Grid Resistive Elements: 3.0 kW, 240V

Technical Specifications are subject to change without notice.

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