





As a highly energy-efficient alternative to the traditional electric or gas water heater, our unique system saves money, reduces greenhouse gas emissions and eliminates the production of carbon monoxide.

The SANCO, heat pump water heater system consists of two parts. The heat pump unit, where the hot water is produced, using the CO₂ refrigerant to extract heat from the ambient air, and the 43, 83 and 119 gallon storage tank.







Superior Features

Highest First Hour Rating of any residential electric water heater (Resistance and Heat Pumps) provides more hot water.



Faster recovery from a hot water draw at 20+ GPH of 150°F water to the top of the tank.



Highest real world efficiency: 80% savings over electric resistance water heaters and 40%+ over a hybrid HPWH.



Most environmentally friendly water heater on the market: CO₂ refrigerant has a low global warming potential.



Simple installation: only plumbing connections are required to connect storage tank and heat pump.



Heat pump will make hot water below -25°F to 104°F ambient -25°F temperature.



Perfect for homes with Solar PV Panels as the unit will use less than 2,000 Watts maximum.



Longest and most comprehensive warranty on the market.



Energy Efficiency

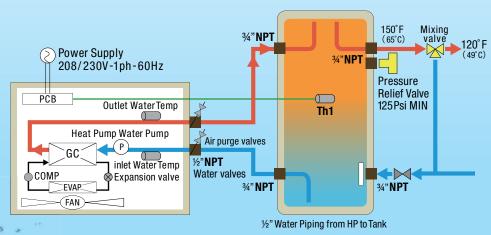
The SANCO₂ unit works to maximize the UEF value not only in the test lab, but also in real world operation due to several of its unique features:

Inverter Compressors increase the efficiency of a heat pump by varying the speed of the compressor and hence the amount of electrical energy used.

DC Fan Motor & Water Pump The other motors in the SANCO2, the fan and water pump, are also powered by direct current (DC), just like the Inverter Compressor. This allows both to run at a speed based on load requirements to optimize energy efficiency.

Technology – How It Works

- The SANCO₂ Water Heater works like any other storage water heater with one exception. The tank is stratified rather than mixed.
- Cold Water connections are located at the bottom of the tank and Hot Water connections are at the top.
- The Hot Water stored in the tank is hotter than Mixing Valve for normal use in the home or building. The unit is supplied with a Thermostatic Mixing Valve that must be installed to temper the delivered water to fixtures.

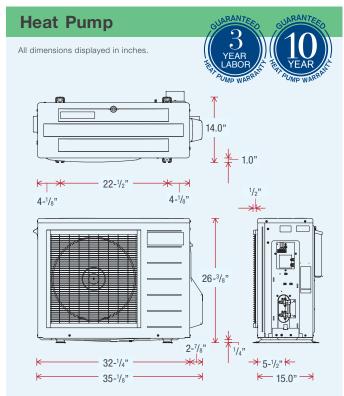


High Performance

The SANCO2 unit has the highest UFHR (Uniform First Hour Rating) of any comparably sized Storage Electric or Heat Pump Water Heater.

The Natural Refrigerant (CO₂) used by the SANCO₂ allows it to make and store hotter water than any other Heat Pump Water Heater. This means there is more energy stored in the tank which translates into more hot water delivered via the factory supplied Mixing Valve.





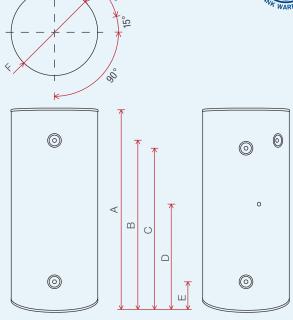
Outdoor Unit (Heat Pump) Model No. GS4-45HPC

Performance	43 Gal Sys	83 Gal Sys	119 Gal Sys
Uniform Energy Factor	3.1	3.75	3.4
First Hour Rating	69 gallons	115 gallons	135 gallons

Specifications	
Water Temperature Setting	145 or 150°F
Ambient Air Operating Range	-25 to 104°F
Nom Heating Capacity (Btu/h)	15,400 Btu/h
Nom Heating Capacity (kw)	4.5kw
Heating COP @80/47/17°F	5.5 / 4.2 / 2.8
Refrigerant Type	R744 (CO ₂)
Power Voltage	208/230v-1Ph-60Hz
Breaker Size	15 Amps
MCA (Amps)	7.2 Amps
Compressor Type	Rotary
Noise Level (DbA)	37
Weight (lbs)	108lbs
Pipe Size (Tank to Heat Pump)	1/2"(Both Hot Supply & Cold Return)
Max Length inc Vertical Sep	66 ft
Max Vertical Separation	23 ft
Max Incoming Water Pressure	95 Psi

Stainless Steel Storage Tank*





Tai	ık Model No:	SAN-43SSAQA	SAN-83SSAQA	SAN-119GLBK*
Α	Height	38-1/8"	68-7/8"	63-3/5"
В	Hot Water Outlet & PR Valve	29-1/2"	60-1/4"	56"
С	Heat Pump Return	29-1/2"	60-1/4"	60-1/4"
D	Sensor Port	9-3/4"	40-3/8"	56"
Е	Cold Water Inlet / Cold Water to HP	8-3/4"	8-3/4"	4"
F	Diameter	24-1/2"	24-1/2"	28"
	Weight (lbs)	88 lbs	115 lbs	345 lbs
	Tank Capacity (gallons)	43 gallons	83 gallons	119 gallons
	Warranty	15 years	15 years	10 years*

Connection Sizes		
Cold Water Inlet	3/4" NPT (11/2" SAN-119 GLBK)	
Hot Water Outlet	3/4" NPT (11/2" SAN-119 GLBK)	
Cold Water to Heat Pump	3/4" NPT	
Hot Water Return from Heat Pump	3/4" NPT	
Pressure Relief Valve Setting (Psig)	125 Psig	
		REV 02032021

*SAN-119GLBK tank is a glass-lined steel tank with a 10 year warranty. Note: Materials and specifications are subject



For more information, please call 1-844-SANDCO2 or email info@eco2systemsllc.com

to change without notice.



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