The Sanden SANCO₂ Heat Pump Water Heater is a highly energy efficient alternative to traditional electric or gas water heaters. It absorbs heat from the outside air to heat water – saving energy, saving money and reducing greenhouse gas emissions.

**Superior Features**

**ENERGY EFFICIENT**
- 4x more efficient than traditional electric water heaters
- Allows use of off-peak power

**HIGH PERFORMANCE**
- Greater first hour rating than all heat pump water heaters
- Faster recovery after hot water draw

**SUPERIOR QUALITY**
- Corrosion-resistant stainless steel tank
- 3-year labor, 10-year parts heat pump warranty; 15-year tank warranty

**EXTENDED OPERATING RANGE**
- Hot water production down to -20°F & below
- Up to 175°F delivered hot water temperature
- No need for a back up electric element in the storage tank

**LOW-PROFILE DESIGN**
- Whisper-quiet noise level (37dB)
- Slimline heat pump design for a reduced footprint

**TANK SIZE OPTIONS**
- Two sizes to best fit your hot water needs

- **43 Gallon Tank**
  - 65-Gallon first hour delivery
  - 2 to 4 People

- **83 Gallon Tank**
  - 109-Gallon first hour delivery
  - 5+ People
**Minimal Impact on Global Warming**

**UNIQUE OZONE-FRIENDLY CO₂ REFRIGERANT**

Heat pump water heaters commonly use synthetic refrigerants, such as R410A or R134A. Although these refrigerants do not deplete the ozone layer, they can have a significant impact on global warming. The CO₂ refrigerant uniquely used in the SANCO₂ system has an extremely low Global Warming Potential*, and CO₂, a natural refrigerant, does not deplete the ozone layer.

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**Global Warming Potential* by refrigerant type per 100 years**

- **R410a**: 2,088
- **R134a**: 1,430

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*Global Warming Potential (GWP) is a measure of how much a given mass of greenhouse gas is estimated to contribute to global warming. It is a relative scale which compares the gas in question to that of the same mass of carbon dioxide (whose GWP is equal to 1).

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**Ultra High Efficiency Reduces Energy Bills**

**USES OVER 70% LESS ELECTRICITY**

The SANCO₂ system uses an inverter-type compressor, DC fan motor and pump. Our design minimizes energy consumption, maximizes water-heating capacity, and allows for faster recovery, resulting in significantly lower operating costs than electric-resistance storage water heaters or conventional heat pump water heaters.

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**Energy Bill Comparison**

- **Electric Water Heater (indoor installation)**: $4
- **Conventional HP Water Heater (Garage installation)**: $3
- **SANCO₂ (Outdoor installation)**: $1

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**Easy Installation**

**FLEXIBLE 2-PIECE SYSTEM**

The tank is installed indoors and the heat pump outdoors (up to 50 feet away) with only water piping connections required between the two. This flexible SANCO₂ design offers several advantages including maintaining comfortable indoor air temperatures (unlike conventional heat pump water heaters that 'scavenge' heat from the indoor air), along with reducing in-home noise.
### Heat Pump Specifications

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<tr>
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</thead>
<tbody>
<tr>
<td>Uniform Energy Factor</td>
<td>2.85</td>
<td>3.34</td>
<td>3.23</td>
</tr>
<tr>
<td>First Hour Rating</td>
<td>65 gallons</td>
<td>109 gallons</td>
<td>130 gallons</td>
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### Tank Model No:

- **SAN-43SSQA**
  - A Height: 38-1/8”
  - B Hot Water Outlet & PR Valve: 68-1/2”
  - C Heat Pump Return: 60-1/4”
  - D Sensor Port: 40-1/4”
  - E Cold Water Inlet / Cold Water to HP: 8-1/2”
  - F Diameter: 24-1/4”
  - Weight (lbs): 88 lbs
  - Tank Capacity (gallons): 43 gallons
  - Warranty: 15 years

- **SAN-83SSQA**
  - A Height: 68-7/8”
  - B Hot Water Outlet & PR Valve: 60-1/4”
  - C Heat Pump Return: 60-1/4”
  - D Sensor Port: 56”
  - E Cold Water Inlet / Cold Water to HP: 8-1/4”
  - F Diameter: 24-1/4”
  - Weight (lbs): 115 lbs
  - Tank Capacity (gallons): 83 gallons
  - Warranty: 15 years

- **SAN-119GLBK**
  - A Height: 63-3/5”
  - B Hot Water Outlet & PR Valve: 56”
  - C Heat Pump Return: 60-1/4”
  - D Sensor Port: 56”
  - E Cold Water Inlet / Cold Water to HP: 8-1/4”
  - F Diameter: 28”
  - Weight (lbs): 345 lbs
  - Tank Capacity (gallons): 119 gallons
  - Warranty: 10 years

### Connection Sizes

- Cold Water Inlet: 3/4” NPT
- Hot Water Outlet: 3/4” NPT
- Cold Water to Heat Pump: 3/4” NPT
- Hot Water Return from Heat Pump: 3/4” NPT
- Pressure Relief Valve Setting (Psig): 125 Psig

*SAN-119GLBK tank is a glass-lined steel tank with a 10 year warranty. Note: Materials and specifications are subject to change without notice.

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

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**SAN-119GLBK tank is a glass-lined steel tank with a 10 year warranty.**