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 -15°F & below
- 149°F delivered hot water temperature
- No need for a back up electric element in the storage tank

**LOW-PROFILE DESIGN**
- Whisper-quiet noise level (38dB)
- Slimline heat pump design for a reduced footprint

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

<table>
<thead>
<tr>
<th>Tank Size</th>
<th>Capacity</th>
<th>First Hour Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>43 Gallon Tank</td>
<td>69-Gallon</td>
<td>2 to 4 People</td>
</tr>
<tr>
<td>83 Gallon Tank</td>
<td>97-Gallon</td>
<td>5+ People</td>
</tr>
</tbody>
</table>
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.

*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).

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.

Energy Bill Comparison with traditional water heaters

- Field testing data in cold climate (Northwest)
- Reference: Washington State University presentation by Ken Eklund available at www.sandenwaterheater.com
- Electricity price: 12.73 cents per kwh (EIA Residential October 2015)

Easy Installation

FLEXIBLE 2-PIECE SYSTEM

The tank is installed indoors and the heat pump outdoors (up to 25 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.
Performance

- **43-gal. system**
  - Energy Factor: 2.65
  - First Hour Rating: 69 gallons

- **83-gal. system**
  - Energy Factor: 3.35
  - First Hour Rating: 97 gallons

Specifications

- **Water Temperature Setting**: 149°F
- **Ambient Air Operating Temperature**: -15°F to +110°F
- **Heat Pump Capacity**: 15,400 Btu/h
- **Heat Pump Capacity**: 4.5 kW
- **Refrigerant Type**: R744 (CO₂)
- **Compressor Type**: Inverter
- **Power Voltage**: 208/230v –1Ph – 60Hz
- **Breaker Size**: 15 Amps
- **MCA**: 7.7 Amps
- **Outdoor Operating Noise Level**: 38 dB
- **Weight**: 123 lbs
- **Pipe Size (Tank to Heat Pump)**: ½" (Cold & Hot)
- **Max Length Inc Vertical**: 25 ft
- **Max Vertical Separation**: 10 ft
- **Max Water Pressure**: 95 Psig

Tank Model No: **GAUS-160QTA**
- **Height**: 47-1/4" (43-gal.)
- **Diameter**: 22-1/2" (43-gal.)
- **Weight**: 88 lbs (43-gal.)
- **Tank Capacity (gallons)**: 43 gallons

Tank Model No: **GAUS-315EQTD**
- **Height**: 58-5/8" (83-gal.)
- **Diameter**: 26-3/4" (83-gal.)
- **Weight**: 154 lbs (83-gal.)
- **Tank Capacity (gallons)**: 83 gallons

Connection Sizes

- **Cold Water Inlet**: ½" NPT
- **Hot Water Outlet**: ½" NPT
- **Cold Water to Heat Pump**: ½" NPT
- **Hot Water Return from Heat Pump**: ½" NPT
- **Pressure Relief Valve Setting (Psig)**: 125 Psig

Note: Materials and specifications are subject to change without notice.

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