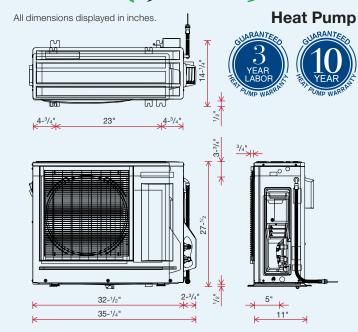
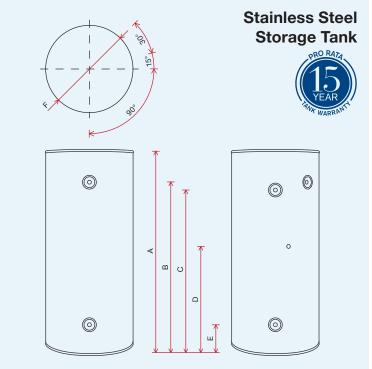
SANCO2 GEN3 Specifications



Outdoor Unit (Heat Pump) Model No. GUS-A45HPA

| Performance | 43-gal. system | 83-gal. system |
|-----------------------------------|-------------------------|----------------|
| Energy Factor | 3.09 | 3.84 |
| First Hour Rating | 71 gallons | 101 gallons |
| Specifications | | |
| Water Temperature Setting | 130°F to 175°F | |
| Ambient Air Operating Temperature | -20°F to +110°F | |
| Heat Pump Capacity | 15,400 Btu/h | |
| Heat Pump Capacity | 4.5 kW | |
| Heat Pump COP | 5.0 | |
| Refrigerant Type | R744 (CO ₂) | |
| Compressor Type | Inverter | |
| Power Voltage | 208/230v -1Ph - 60Hz | |
| Breaker Size | 15 Amps | |
| MCA | 13 Amps | |
| Outdoor Operating Noise Level | 37 dB | |
| Weight | 106 lbs | |
| Pipe Size (Tank to Heat Pump) | 1/2" (Hot & Cold) | |
| Max Length Inc Vertical | 50 |) ft |
| Max Vertical Separation | 16 ft | |
| Max Water Pressure | 95 | Psig |
| | | |



| Ta | nk Model No: | GAUS-160QTA | GAUS-315EQTD | SAN-43SSAQA | SAN-83SSAQA |
|------------------|-------------------------------------|-------------|--------------|-------------|-------------|
| Α | Height | 47-1/4" | 58-5/8" | 38-1/8" | 68-7/8" |
| В | Hot Water Outlet & PR Valve | 37-3/8" | 49-5/8" | 29-1/2" | 60-1/4" |
| С | Heat Pump Return | 37-3/8" | 49-5/8" | 29-1/2" | 60-1/4" |
| D | Sensor Port | 17-1/8" | 37" | 9-3/4" | 40 3/8" |
| Ε | Cold Water Inlet / Cold Water to HP | 8-1/4" | 7-7/8" | 8-3/4" | 8-3/4" |
| F | Diameter | 22-1/2" | 26-3/4" | 24-1/2" | 24-1/2" |
| | Weight (lbs) | 88 lbs | 154 lbs | 88 lbs | 115 lbs |
| | Tank Capacity (gallons) | 43 gallons | 83 gallons | 43 gallons | 83 gallons |
| Connection Sizes | | | | | |

| 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 |
| | |

REV 1216

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



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



Sanden International (U.S.A.) Inc. 47772 Halyard Drive, Plymouth, MI 48170

Phone: 1-844-726-3262 or 1-844-SANDCO2

Email: info@sandenwaterheater.com Website: www.sandenwaterheater.com











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





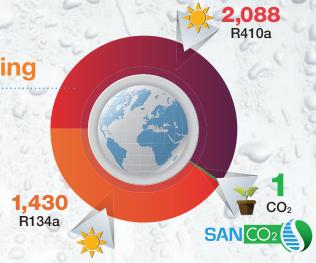


Minimal Impact on Global Warming

UNIQUE OZONE-FRIENDLY CO2 REFRIGERANT

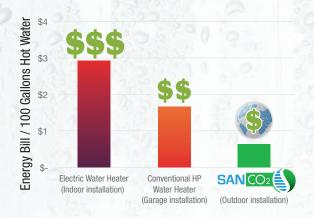
Heat pump water heaters commonly use synthetic refrigerants, such as R410A or R134A. Although these refrigerants do not deplete the ozone layer, they can have a significant impact on global warming. The CO₂ refrigerant uniquely used in the SANCO₂ system has an extremely low Global Warming Potential*,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



Global Warming Potential*

by refrigerant type per 100 years



Energy Bill Comparison

with traditional water heaters

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.

- 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 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.



