

# Goodman 4 Ton Heat Pump 19 SEER Inverter Split System

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Goodman 20 SEER Heat Pump Inverter Condenser - GVZC200 series

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\$10,724.00

\$10,855.00





## **Goodman Heat Pump 20 Seer Split System Condenser**

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This Goodman GVZC heat pump split system for sale is one of the best and most energy efficient air source heat pumps available for your home or office today. Plus, this energy efficiency is partnered with the latest technological comfort-enhancing features to keep you cool in the summer and warm in the winter, regardless of the outdoor weather conditions.

This heat pump efficiently cools in the summer and heats in the winter without requiring a fossil fuel furnace (gas or oil). This keeps prices low and the value extremely high.

Goodman is one of the largest and most trusted names in the world in the home cooling and heating industry. That's because Goodman lives up to its name in a big way, using advanced and proven energy-efficient technology, highly durable materials and spot-on manufacturing.

So, no matter what your outdoor climate is like or whether your home is small or large, Goodman has one of the best replacement HVAC solutions to keep you and your family comfortable year-round.

ENERGY STAR products are third-party certified by an EPA recognized Certification Body. Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency.

- High-efficiency variable-speed swing and scroll compressors
- High-efficiency variable-speed ECM condenser fan motor
- ComfortBridge™ Communications System compatible
- Factory-provided filter drier (field installation required)
- Factory-installed suction line accumulator
- Factory-installed heat pump compressor crankcase heater
- Factory-installed high-capacity muffler
- Factory-installed high and low-pressure switches
- High-density foam compressor sound blanket
- Factory-installed sensors monitoring coil and ambient temperature
- Goodman ComfortAlert™ built in diagnostics
- SmartShift® technology with short-cycle protection to ensure quiet, reliable defrost
- In communicating mode, only two low voltage wires to the heat pump outdoor unit are required
- Contactor with lug connection
- Customized control algorithms
- Fully charged for fifteen feet of tubing length
- AHRI Certified-ETL Listed
- Copper tube & enhanced aluminum fin coil

Dependable and reliable cutting-edge technology:

A lot goes into every Goodman GVZC20 heat pump with smart speed technology

The art of precision

**Smart Speed™ Technology** – Designed to automatically adjust the speed of the air source compressor and condensing fan motor based on cooling demand, much like a dimmer switch to a light fixture – full, 100% capacity for extreme temperatures, and reduced capacity for milder days.

A system with Smart Speed technology can significantly lower your energy costs when compared to an ordinary single-speed heat pump that only runs at 100% on or 100% off.

When more power or speed is needed, the inverter technology increases the performance. After the set temperature is achieved, the inverter technology automatically calculates the lowest amount of energy required to maintain your indoor comfort.

Just picture how you use the gas pedal in your car. The car does not run at full speed all the time (that would be very dangerous), but instead, you modulate the gas pedal based on the exact amount of power you need at any given moment.

The result is lower utility costs compared to single-speed compressors and constant indoor comfort because the compressor is not operating at full capacity every time it is activated.

**ComfortBridge™ Technology** – Continuously monitors system performance for the best customized indoor comfort. Revolutionary ComfortBridge technology is factory-installed into select Goodman brand air handlers to ensure that the entire system operates at peak, energy-efficient performance.

How ComfortBridge works for you...

**Fact 1:** Communicating technology is located in the equipment.

**Fact 2:** The technology continuously monitors system performance.

**Fact 3:** System performance is customized based on actual data.



Simply put, communications technology that is typically located in a thermostat was moved from the wall and securely placed into the Goodman equipment!

**The CoolCloud™ HVAC app** – Enables qualified technicians to connect, configure and diagnose HVAC systems quickly and accurately. Goodman heat pumps simply work the way they're supposed to, making each one a thing of beauty.

**ComfortAlert™ Diagnostics** – Advanced diagnostics constantly monitor your air conditioner and/or heating system, reducing failures and pinpointing trouble spots for a fast fix.

**SmartShift® Technology** – Specialized time-delay defrost technology allows for a reliable, quiet and smooth transition when units enter defrost mode, preventing ice and frost buildup on the outdoor unit during the winter.

**Quiet Operation** – An acoustically engineered sound control blanket helps reduce noise levels compared to units without sound control blankets.

**Heavy-Gauge, Galvanized Steel Enclosure Cabinet** – A louvered cabinet protects the coil, while its appliance-quality, post-paint, baked enamel finish protects your system from harsh outdoor elements.

The absolute best warranty protection:

All parts are factory-backed with a 10 year limited warranty.

If the compressor ever fails, Goodman will replace the entire outdoor unit for as long as you own your home.

The compressor (the most expensive part and the heart and soul of every air conditioning system) is covered by a lifetime limited warranty.

When was the last time you bought anything that came with a 10 year to lifetime limited warranty? Probably never and this shows Goodman's commitment to quality and their desire to ensure their products not only work well, but last a long, long, time.

### Benefits

- The variable speed swing or scroll compressor with inverter technology runs at from 0% to 100% capacity, depending on cooling/heating demand. This operational flexibility provides a great energy-efficient option and lower operational cost when compared to a traditional, single-stage or two-stage units.
- The advanced performance of a variable speed, electronically commutated motor (ECM) allows for operation over a wide range of fan speeds, from 0% to 100%, depending on your home airflow needs. It is the best energy-efficient option when compared to a traditional, single-speed or two-stage motors.
- Designed to regulate and communicate with your ComfortBridge™ Controls System so you can remotely monitor and manage your heating and cooling system – at any time, from anywhere with just an internet connection.
- Filter-driers play a pivotal role in the operation of air conditioning and refrigeration systems. A factory-provided filter-drier absorbs and filters residual system contaminants and moisture when installed on site.
- Suction accumulator ensures refrigerant is ready even in extreme external temperatures.
- Crankcase heater prevents condensation of refrigerant in the crankcase of a compressor.
- High-capacity muffler reduces pass-through vibration noise from compressor operation.
- A high-pressure switch prevents the system from operating at extremely high pressures by shutting off the compressor circuit if the pressure exceeds the designated rating. When a refrigeration system operates at lower than normal pressures, the low-pressure switch prevents freezing from working its way to the compressor.
- High-density foam compressor blanket provides noise reduction when the compressor is in operation.

- Consistent and concise monitoring helps to ensure that the system is operating efficiently, regardless of the weather.
- Assists contractors in troubleshooting the system with improved diagnostic accuracy by utilizing indicator lights, seven-segment LED display, and fault code storage.
- SmartShift is a time-delay defrost technology that allows for a reliable, quiet, and smooth transition when units enter defrost mode.
- By simplifying the communication connection to two low voltage wires to the outdoor unit, technicians may eliminate the need to run additional thermostat wiring.
- Contractors can securely connect wires with large screw lugs, allowing for quick and solid wiring.
- Proprietary, self-contained sequence of actions designed to help control system operation for energy efficient performance and enhanced reliability.
- Fully charged with refrigerant sufficient for 15' of tubing length to assist with easy installation of unit.
- Meets the performance requirements for AHRI certification and complies with ETL North American safety standards.
- Copper coil tubing with enhanced aluminum fins increases the area for heat absorption, providing outstanding, energy-efficient heat transfer performance.

#### **4 Ton Heat Pump Unit Features**

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- Variable-speed swing compressors
- High-density compressor sound blanket
- Integrated communicating ComfortBridge™ Technology
- Commissioning and diagnostics via indoor board Bluetooth with the CoolCloud™ phone and tablet application
- Goodman control algorithmic logic
- In communicating mode, only two low-voltage wires to outdoor unit required
- Diagnostic indicator lights, seven-segment LED display, and fault code storage
- Field-selectable boost mode increases compressor speed during unusually high loads
- Quiet DC outdoor fan motor
- Fully charged for 15' of tubing length
- Field-installed bi-flow filter drier
- Coil and ambient temperature sensors
- Suction pressure transducer (in cooling mode)
- Sweat connection service valves with easy access to gauge ports
- AHRI Certified; ETL Listed

#### **Heat Pump Cabinet Features**

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- Goodman® brand louvered sound control top design
- Heavy-gauge galvanized-steel cabinet with grille-style sound control top design
- Custom two-tone gray powder-paint finish

- 500-hour salt-spray tested
- Wire fan discharge grille
- Steel louver coil guard
- Top and side maintenance access
- Single-panel access to controls with space provided for field-installed accessories
- When properly anchored, meets the 2017 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)

## Specifications

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Brand

Goodman

Model Number

GVZC200481

Max. Cooling (BTU/h)

46,500

Max. Heating (BTU/h)

46,000

SEER

20

Compressor Type

Swing

Liquid Line Size

3/8"

Liquid Valve Size

3/8"

Suction Line Size

1-1/8"

Suction Valve Size



7/8"

Valve Connection Type

Ball Valve

Voltage

208-230 VAC

Phase

Single

Cycle/Hertz

60 Hz

Min / Max Volts

197/253

Electrical Conduit Size

1/2" or 3/4"

Tonnage

4

Height

35-1/2 in

Length

35-1/2 in

Width

41-1/4 in

Weight

291 Lb