

Turning HVAC on its Side, Goodman Launches New Inverter Air Conditioner and Heat Pumps

Quiet, Compact, Energy Efficient Side-discharge Design for Ducted Applications are Revolutionizing the Residential HVAC Industry

WALLER, Texas, March 7, 2024 – We are turning HVAC on its side with the launch of our new Goodman brand split system, side-discharge air conditioners and heat pumps designed to free up space for backyards, rooftops or patios, while delivering extremely quiet, premium-style performance.

A compact, space-saving solution for homes with limited installation options, the new inverter-driven, variable-speed, communicating Goodman SD is up to 53 percent lighter and 40 percent smaller than a traditional cube-style unit – requiring just 4” of clearance.

“Our new Goodman SD side-discharge units bring the advantages of high-performance ductless engineering to ducted systems,” explains Salli Cobb, Senior Product Manager, Split Systems for Goodman. “They are designed to optimize space, indoor comfort and performance, while priced, in the Goodman way, to add comfort with a homeowner’s budget.”

Goodman SD air conditioners deliver high-efficiency performance, up to 17.2 SEER2, while the SD heat pump reaches up to 17.5 SEER2 and 8.5 HSPF2. Both cover a remarkable range of temperatures from lightweight, compact units that feature powerful cooling up to 115°F DB and, for the heat pump, warmth down to -10°F DB.

“An exciting feature of the Goodman SD is its quiet operation, running as low as 56 dBA, about as noiseless as a refrigerator,” Cobb says. “Activating the Quiet Mode allows the system to reach decibel levels as low as 45 dBA. Better still, homeowners also can enjoy up to 30 percent in energy savings thanks to our inverter technology, as compared to non-inverter systems.”

Goodman engineering brought the dimensions of the Goodman SD units down to a size and weight that may be easily managed by a single HVAC contractor using a dolly. Goodman SD air conditioner (GSXS6) and heat pump (GSZS6) 1.5- to 3-ton units are a mere 36.6” wide, 13.8” deep and 27.4” tall. The 3.5- to 5-ton units run slightly taller at 39” high.



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Innovative engineering abounds in the new Goodman SD air conditioners and heat pumps. A variable-speed digitally commutated fan provides precise, efficient air distribution across the condenser coil. Goodman's 7mm coil allows for both a compact casing and outstanding heat transfer efficiencies. Hydrophilic Blue Fin corrosion coating helps keep the 1,000-hour salt-spray rated coil clean. To eliminate condenser fan pressure drop caused by heat sink, the inverter board is cooled by the refrigerant circuit.

Goodman SD heat pumps feature hot start technology, building heating capacity to deliver warm air before the indoor blower starts. Intelligent Defrost Mode helps reduce ice and frost from building up, running only as long as needed for more efficient operation. A selectable defrost backup heat option, when turned off, will lower power consumption during defrost. Advanced water-shedding drain pans are engineered with multiple drain holes and channels to help provide effective water shedding. To minimize transfer of natural frequency to connecting pipes, the 1.5- to 3-ton heat pumps feature a special muffler.

"To ensure that homeowners enjoy the ultimate inverter experience, Goodman side discharge, split system units are designed to work solely with Goodman's new GTST connected thermostat," explains Jim Lowell, IoT Solutions Manager. "The full-featured GTST links via Wi-Fi to the Goodman home app for convenient, seamless control over your indoor comfort from a smartphone or tablet."

The GTST thermostat is compatible with all Goodman communicating unitary equipment.

The new Goodman SD air conditioners and heat pumps are backed by a 10-Year Unit Replacement Limited Warranty and Lifetime Compressor Limited Warranty for compressor failures (in each case, good for as long as you own and reside in your home), and a 10-Year Parts Limited Warranty where online registration is completed within 60 days of installation. Online registration is not required in California or Quebec. The duration of warranty coverages in Texas and Florida differs in some cases. Changes in law, regulations, or technology may result in an equivalent unit not being available. Other limitations and exclusions apply. Complete warranty available from your local dealer or at www.goodmanmfg.com.

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About Goodman

A member of the DAIKIN group, Houston-based Goodman Manufacturing Company, L.P. is a leading manufacturer of heating, ventilation and air conditioning products for residential and light commercial use. Goodman® brand products are predominantly sold through company-operated and independent distribution networks, with more than 1,000 total distribution points throughout North America. For more information, visit www.goodmanmfg.com.

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News Release



Air Conditioning & Heating

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About Daikin

Daikin Industries, Ltd. (DIL) is a Fortune 1,000 company with more than 96,337 employees worldwide and is a leading indoor comfort solutions provider. Daikin Comfort Technologies North America, Inc. (DNA) is a subsidiary of DIL, providing Daikin, Goodman, Amana® brand and Quietflex brands products. DNA and its affiliates manufacture heating and cooling systems for residential, commercial and industrial use and are sold via independent HVAC contractors. DNA engineering and manufacturing is located at [Daikin Texas Technology Park](#) near Houston, TX. For additional information, visit www.northamerica-daikin.com.

Additional Information:

Before purchasing this appliance, read important information about its estimated annual energy consumption, yearly operating cost, or energy efficiency rating that is available from your retailer.

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