



HEAT TRANSFER EXPERTS
GAS FURNACES | HEAT PUMPS | PACKAGED PRODUCTS



Thank goodness for Goodman.®



At Goodman, we believe in American dependability. Units are designed, engineered and assembled in the U.S.A.





Heat Transfer Experts

When you think about it, the efficient movement of heat is a basic premise of the HVAC industry. Whether it's the removal of heat in conjunction with cooling products or the creation of heat for warmth, the HVAC world revolves around the thermodynamics of heat transfer.

The Goodman® brand offers a full line of residential heating products including gas furnaces, heat pumps, and packaged products. In nearly every product you'll find a variety of distinct features that complement the goal that all Goodman brand products are designed to be easy to sell, install and maintain.

Goodman brand heat pumps offer outstanding standard enhancements on the entire line, regardless of tonnage or SEER levels. All Goodman brand gas furnaces feature a distinct, award-winning, and incredibly durable tubular, dual-diameter heat exchanger. Residential packaged products utilize many of the same enhancements and durable features, too.

We design, engineer, manufacture and test every heating product to make certain that we provide you with the best value possible. Further, every unit is run tested before it leaves our manufacturing facilities.

Our definition of best value is the optimum combination of reliability, dependability, availability, efficiency, performance, and price. And that should be no surprise because our company was founded by a dealer. And we're certain that HVAC dealers today continue to seek the best value from both HVAC manufacturers and distributors.

So when you're looking for the brand that offers more heating choices, simply look to the Goodman brand. For full information on the Goodman brand, be certain to visit www.goodmanmfg.com.

Thank goodness for Goodman.®



The Goodman® brand offers a full line of heating and cooling products including residential gas furnaces, heat pumps, air conditioners, air handlers, coils, and packaged products.



80% AND 90+% AFUE GAS FURNACES

Ramp up with modulating multi-speed and variable-speed gas furnaces

Goodman® brand gas furnaces can deliver warm, money-saving indoor comfort year-after-year to your home. Modulating, variable and multi-speed furnaces can provide enhanced indoor comfort by slowly ramping up to your thermostat setting rather than simply turning on at full speed. This alleviates the 'cold air blow' often associated with single-speed furnaces.

Some Goodman 80% and 90+% furnace features include:

Distinctive, Heavy-Duty Heat Exchanger Technology – Constructed from tubular aluminized-steel, the primary heat exchanger is designed for outstanding durability and heat transfer. The use of wrinkle bend technology maintains the wall strength of the tubular design and aids in the efficient transfer of heat.

Efficient Blower Motor – Provides quiet system startup and shutdown with highly efficient performance.



Two-Stage Gas Valve – Automatically adjusts to the most efficient amount of gas needed to reach and maintain the temperature selected on the thermostat.

Continuous Air Circulation – Provides added filtration and keeps air moving throughout your home to help maintain comfort.

Self-Diagnostic Control Board – Silently and consistently monitors the gas furnace to ensure all furnace components are working properly and helps to achieve energy-efficient performance too. Also, allows for quick troubleshooting when the gas furnace needs maintenance.

Insulated Furnace Cabinet – Even the metal walls of this gas furnace support energy-efficiency. A fully insulated cabinet helps to keep the heat inside the furnace and has less than a 2% air leakage rate. The insulation also assists with noise suppression when the furnace is operating.

COMPONENT UPGRADE OFFERS BETTER PERFORMANCE

The aluminized steel, tubular primary heat exchanger featured in Goodman brand gas furnaces is likely the most essential component in a gas furnace's performance. This distinctive heat exchanger employs wrinkle-bend technology which was developed to deliver extraordinary durability and long-term reliability.








80% AFUE FURNACE HEAT EXCHANGER



90+% AFUE FURNACE HEAT EXCHANGER

Thank goodness for Goodman.®

	90+% AFUE								
MODELS	GMVM97	GCVM97	GMVC96	GCVC96	GMEC96	GMSS96	GCSS96	GMSS92	GCSS92
Lifetime Heat Exchanger Limited Warranty *	•	•	•	•	•	•	•	•	•
10-Year Unit Replacement Limited Warranty *	•	•	•	•	•	•	•	N/A	N/A
10-Year Parts Limited Warranty *	•	•	•	•	•	•	•	•	•
ComfortNet™ Compatible	•	•	•	•	N/A	N/A	N/A	N/A	N/A
AFUE	Up to 98%	Up to 97%	Up to 96%	Up to 96%	Up to 96%	Up to 96%	Up to 96%	Up to 92%	Up to 92%
Gas Valve Type	Modulating	Modulating	Two Stage	Two Stage	Two Stage	Single Stage	Single Stage	Single Stage	Single Stage
Self-Diagnostics Control Board	•	•	•	•	•	•	•	•	•
Aluminized Steel Primary Heat Exchanger	•	•	•	•	•	•	•	•	•
Stainless Steel Secondary Heat Exchanger	•	•	•	•	•	•	•	•	•
Motor Type	Variable-Speed ECM	Variable-Speed ECM	Variable-Speed ECM	Variable-Speed ECM	Multi-Speed ECM (EEM)	Multi Speed	Multi Speed	Multi Speed	Multi Speed
Silicon Nitride Igniter	•	•	•	•	•	•	•	•	•
Installation Options	Upflow Horizontal	Downflow Horizontal	Upflow Horizontal	Downflow Horizontal	Upflow Horizontal	Upflow Horizontal	Downflow Horizontal	Upflow Horizontal	Downflow Horizontal
ENERGY STAR Certified						NO	NO	NO	NO





* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 10-Year Unit Replacement Limited Warranty, Lifetime Heat Exchanger Limited Warranty (good for as long as you own your home) and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.

	80% AFUE							
MODELS	GMVC8	GCVC8	GME8	GMH8	GDH8	GMS8	GDS8	GHS8
Lifetime Heat Exchanger Limited Warranty *	•	•	•	•	•	•	•	•
10-Year Unit Replacement Limited Warranty *	•	•	•	•	•	N/A	N/A	N/A
10-Year Parts Limited Warranty *	•	•	•	•	•	•	•	•
ComfortNet™ Compatible	•	•	N/A	N/A	N/A	N/A	N/A	N/A
Self-Diagnostics Control Board	•	•	•	•	•	•	•	•
Aluminized Steel Tubular, Dual-Diameter Primary Heat Exchanger	•	•	•	•	•	•	•	•
Gas Valve Type	Two Stage	Two Stage	Two Stage	Two Stage	Two Stage	Single Stage	Single Stage	Single Stage
Motor Type	Variable-Speed ECM	Variable-Speed ECM	Multi-Speed ECM (EEM)	Multi Speed	Multi Speed	Multi Speed	Multi Speed	Multi-Speed Hi Airflow
Igniter Type	Silicon Nitride	Silicon Nitride	Silicon Nitride	Silicon Nitride	Silicon Nitride	Silicon Carbide	Silicon Carbide	Silicon Carbide
Installation Options	Upflow Horizontal	Downflow Horizontal	Upflow Horizontal	Upflow Horizontal	Dedicated Downflow	Upflow Horizontal	Dedicated Downflow	Upflow Horizontal

* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 10-Year Unit Replacement Limited Warranty, Lifetime Heat Exchanger Limited Warranty (good for as long as you own your home) and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.

SPLIT SYSTEM HEAT PUMPS

If you think that the performance of a heat pump is equal to the sum of its parts, then you'll be amazed by Goodman® brand heat pumps. Every Goodman heat pump is loaded with standard features that are designed to deliver outstanding performance, durability, and reliability. In fact, we challenge anyone to find a more fully-loaded heat pump!

	Split System Heat Pumps			
MODELS	DSZC18	DSZC16	GSZ16	GSZ14
10-Year Unit Replacement Limited Warranty *	•	•	N/A	N/A
Lifetime Compressor Limited Warranty *	•	•	N/A	N/A
10-Year Parts Limited Warranty *	•	•	•	•
ComfortNet™ Compatible	•	•	N/A	N/A
SEER	Up to 18	Up to 16	Up to 16	Up to 15
HSPF	Up to 9.5	Up to 9.5	Up to 9.0	Up to 9.0
Compressor Type	High-Efficiency Two-Stage Scroll	High-Efficiency Two-Stage Scroll	High-Efficiency Scroll	Energy Efficient
SmartShift® Defrost Technology	•	•	•	•
High-Capacity Muffler	•	•	•	•
Factory-Installed Accumulator	•	•	•	•
Crankcase Heater	•	•	•	•
Compressor Sound Blanket	High Density	High Density	N/A	N/A
Factory-Installed Filter Drier	•	•	•	•
ENERGY STAR Certified**				

* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 10-Year Unit Replacement Limited Warranty, Lifetime Compressor Limited Warranty (good for as long as you own your home) and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.

** Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet **ENERGY STAR** criteria. Ask your contractor for details or visit www.energystar.gov.



Thank goodness for Goodman.®

Performance features

Take a look at the standard features on the full line of Goodman® brand heat pumps. And yes, they are the standard features found on all models, not just the features you might find on a few select models. After a full review, we think you'll agree that Goodman brand heat pump are a great value.

1 Compressor – The compressor is often referred to as the heart of a heat pump. This device pumps and compresses the refrigerant that provides the heating and cooling benefits of a heat pump. Scroll compressors also contain up to 70% fewer moving parts than reciprocating compressors. Goodman brand models utilize a mix of scroll and reciprocating compressors optimized for the application.

2 Filter Drier – A factory-installed filter drier traps moisture and other contaminants in the liquid refrigerant that could be detrimental to the function and longevity of the heat pump and is a standard feature on all Goodman heat pump products.

3 Crankcase heater – The factory-installed crankcase heater is wrapped around the base of the compressor and provides multiple functions. When the heat pump is shut down in colder ambient conditions, the crankcase heater reduces liquid refrigerant migration in the compressor shell by keeping the refrigerant at a temperature higher than the coldest part of the refrigerant system. System oil will generally migrate to the warmest part of the refrigerant system. By keeping the compressor warm the crankcase heater helps to keep oil in the compressor where it is needed. Not only does this protect the compressor but noise reduction is achieved by preventing liquid refrigerant accumulation in the compressor shell.

4 Accumulator – Designed to protect the heat pump compressor from the damage of liquid refrigerant flood back conditions, an accumulator stores excess liquid refrigerant and only allows refrigerant vapor to enter the compressor. Basically the accumulator acts as a storage vessel. By storing and converting outlet refrigerant to a vapor state the accumulator protects against long term damage to the compressor commonly called 'slugging'.

5 Discharge Muffler – Similar to the muffler on the exhaust system of a car, the discharge muffler on a heat pump reduces transient conditions that cause vibration affecting the operational noise of a heat pump. A discharge muffler also helps to minimize the pulsations occurring between the cooling and heating modes of a heat pump. Mufflers on Goodman brand heat pumps have been up-sized to minimize noise caused by higher operating pressures associated with R-410A refrigerant.

6 Low pressure switch – When the refrigerant charge or pressure in a heat pump system is low, this switch activates and stops the operation of the heat pump to minimize potential damage to the compressor. A heat pump system that is low on refrigerant will not provide adequate heating or cooling. Further, low or loss of pressure can cause freezing of the condenser coil which drastically hinders the performance a heat pump. This silent guard stands ready to operate only when needed to help protect the heat pump's compressor from damage.

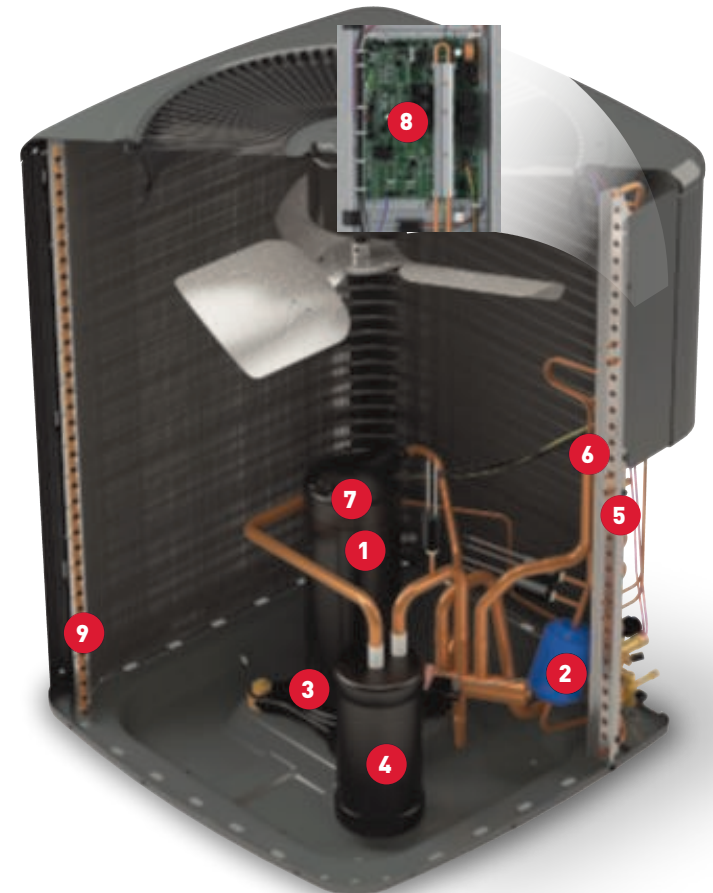
7 Compressor sound blanket – The sound blanket insulates against the normal operating sound of the compressor. But not all sound blankets are created equal, unless it's constructed of high-density, thick foam and other materials, it may not provide the same level of sound insulation.

8 SmartShift® - This feature helps to increase compressor reliability and reduces the noise level during heat pump systems defrost cycles. When outdoor temperatures fall below freezing and the heat pump is forced to initiate a defrost

cycle, SmartShift simply turns off the compressor for 30 seconds allowing the system pressure to equalize and then it restarts the compressor. This seamless operation is triggered automatically eliminating unwanted noise caused by heat pump defrost changeover cycles.

9 R-410A Refrigerant - Since this refrigerant does not contain chlorine, it is considered to be more environmentally-friendly compared to R-22 refrigerant.

Goodman®
Air Conditioning & Heating



PACKAGED UNITS

Packaged Units

Packaged units offer both heating and cooling performance from one product. Packaged heat pumps provide efficient electric heating and cooling to your home or business. Packaged air conditioners efficiently keep you cool in the summer, and gas furnace/air conditioner packaged products add the warmth of cozy gas heat in the winter. Regardless of your specific need, all packaged systems offer the quality and affordability associated with the Goodman® brand — and are backed by what we believe to be some of the best limited warranty coverages in the heating and cooling industry*.

Some Goodman brand packaged unit features include:

Efficient Cooling Capacity – 5 millimeter (select models) refrigeration grade premium copper tubing and aluminum fin condenser coil configuration delivers outstanding heat transfer properties.

All-ALUMINUM Evaporator Coil – A single metal solution that is designed for enhanced durability and performance.

Multi-Speed ECM Blower Motor – Provides quiet system startup and shutdown with highly-efficient performance.

Energy-Efficient Compressor – Compressor will provide years of reliable cooling comfort. Uses chlorine-free R-410A refrigerant.

Refrigeration-Grade Premium Copper Tubing and Aluminum Fin Condenser Coil Configuration – Delivers outstanding heat transfer properties with R-410A refrigerant.

SmartShift® Defrost Technology with Short-Cycle Protection – Supports smooth and quiet transition between heating and cooling cycles (heat pump packaged units only).



Heavy-Gauge Galvanized Steel Enclosure with Powder-Paint Finish – Protects your system from extreme outdoor elements.

With performance ratings of up to 16 SEER, 8.2 HSPF and 81% AFUE, Goodman packaged products are designed to deliver comfort year after year.




* Complete warranty details available from your local dealer or at www.goodmanmfg.com.

Thank goodness for Goodman.®

	Packaged Heat Pumps				Dual-Fuel	Packaged Gas/Electric	
MODELS	GPH16H	GPH16M	GPH14H	GPH14M	GPD14	GPG16M	GPG14M
20-Year Heat Exchanger Limited Warranty*	N/A	N/A	N/A	N/A	•	•	•
10-Year Parts Limited Warranty*	•	•	•	•	•	•	•
R-410A Refrigerant	•	•	•	•	•	•	•
SEER	Up to 16	Up to 16	14	14	Up to 14.5	Up to 16	14
HSPF/AFUE	Up to 8.2	Up to 8.2	8.0	8.0	8.0 81% AFUE	81% AFUE	81% AFUE
Capacity (Tons)	2 to 5 Tons	2 to 5 Tons	2 to 5 Tons	2 to 5 Tons	2 to 4 Tons	2 to 5 Tons	2 to 5 Tons
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll (Except 2.0 & 2.5 ton)
Heavy-Gauge Galvanized Steel Cabinet	•	•	•	•	•	•	•
Louvered Condenser Coil Protection	•	•	•	•	•	•	•
Tubular Heat Exchanger	N/A	N/A	N/A	N/A	Aluminized Steel Dual-Diameter Tubular Heat Exchanger	Aluminized Steel Dual-Diameter Tubular Heat Exchanger	Aluminized Steel Dual-Diameter Tubular Heat Exchanger
Installation Option	Dedicated Horizontal	Multi Position	Dedicated Horizontal	Multi Position	Multi Position	Multi Position	Multi Position
ENERGY STAR Certified	NO		NO	NO	NO		NO

* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 20-Year Heat Exchanger Limited Warranty and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.

	Packaged Air Conditioners		
MODELS	GPC15H	GPC14H	GPC14M
10-Year Parts Limited Warranty *	•	•	•
R-410A Refrigerant	•	•	•
SEER	15	14	14
Capacity (Tons)	2 to 5 Tons	2 to 5 Tons	2 to 5 Tons
Installation Options	Dedicated Horizontal	Dedicated Horizontal	Multi Position
Compressor Type	Scroll	Scroll (Except 2.0 & 2.5 Ton)	Scroll (Except 2.0 & 2.5 Ton)
Louvered Condenser Coil Protection	•	•	•
Heavy-Gauge Galvanized Steel Cabinet	•	•	•
ENERGY STAR Certified		NO	NO

* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.

Goodman®
Air Conditioning & Heating

Get control with ComfortNet™ Communicating Control Systems

ComfortNet communicating control systems for residential heating and cooling systems provide an elevated level of home comfort. From any device connected to the internet, the homeowner can enjoy features such as outdoor temperature display, integrated dehumidification, advanced diagnostics and a programmable continuous fan control, in addition to setting a specific temperature for the home or creating a programmable schedule.

RedLINK™ Wireless Technology

The CTK04 RedLINK wireless technology and its full suite of wireless-enabled accessories help to better meet the homeowner's personal comfort needs. Wireless accessory add-ons such as the remote indoor and outdoor temperature sensors and remote control offer comfort, convenience and connection.

Internet Gateway

The installation of an optional RedLINK Internet Gateway to a ComfortNet CTK04 thermostat builds a wireless network through Honeywell's free Total Connect Comfort Services application. Once registered, you can customize the system and download the free mobile app to connect to up to four RedLINK thermostats through the Honeywell Total Comfort Connect portal. This provides connectivity from anywhere you have a device with an internet connection – from the other side of the house, at work or anywhere in the world.

IFTTT Compatible

Honeywell has a new channel compatible with ComfortNet CTK04 thermostats on the IFTTT app (www.IFTTT.com) giving homeowners and dealers more options for remote control of their home comfort system. IFTTT, which stands for "If This, Then That", is a web-based service that allows users to create chains of simple conditional statements, called "recipes", to trigger actions from their connected devices by connecting applications.

Voice Control

For homeowners that are continuously looking for ways to connect their lives and homes, the ComfortNet CTK04, when used with the Residential Internet Gateway™, can be used to manage home comfort more effectively with voice controls. Amazon Alexa™ and Google Home™ offer direct connectivity to the CTK04 thermostat via the Honeywell Total Connect Comfort Services application. The CTK04 can also be operated by voice control directly through the Honeywell Total Connect Comfort Services app.



The ComfortNet™ Communicating Control is compatible with a wide variety of Goodman® brand condensing units and gas furnaces.

Thank goodness for Goodman.®

Testing...Testing...Testing...

We take great pride in all of our products, relying on strict quality-driven processes to help ensure that each component and the final assembled product meets or exceeds our customer's expectations. On the assembly line, we leak-test every single unit at least three times during the manufacturing process and run-test each and every unit before it's shipped from our facilities.

We also employ the rigors of Six Sigma principles to challenge ourselves constantly to improve both our product design and our manufacturing processes.

This continued commitment to quality manufacturing operations helps ensure the successful installation of our products.

We do all this because anything less would not be worthy of your quality standards.

Trust the Experts

When it comes to recommending a brand for your cooling and heating needs, your local HVAC professional knows best. After all, they are the experts, the ones in the field who can accurately evaluate your specific needs and solutions. You may not know the brand of brake pads your trusted mechanic installed, but you trust your mechanic to make your vehicle perform the way it was meant to. Each HVAC installation is different, and your local, independent HVAC professional knows which HVAC brands are best suited to your specific indoor comfort needs.

Every Goodman® brand heating and air conditioning system is designed, engineered, and manufactured with pride. All employees follow strict, quality-driven processes to ensure that all Goodman products offer the legendary performance that has made the brand a recognized leader in the industry.



At Goodman, we believe in American dependability. Units are designed, engineered and assembled in the U.S.A.

Where are Goodman brand heating products assembled?

All Right here in the U.S.A., of course!

The Daikin Texas Technology Park is one of the largest HVAC facilities in the hemisphere, located just west of Houston, Texas.

This facility was built to provide a positive workplace environment, logical arrangement of equipment and material flow, high-speed manufacturing, and the centralization of all internal departments required to create some of the best energy-efficient residential heating and cooling systems. A primary goal of the campus is to consolidate all the company's assembly operations, along with research and testing labs, a sophisticated distribution facility, and the administrative support and infrastructure that go with those functions.



We've invested over \$400 million on our new campus located on a five hundred acre site which includes room for future expansion. When fully functional it will be over 4 million square feet of operational space.

Within the manufacturing and distribution sections of the building you'll find 57 receiving docks and 228 shipping docks. A stroll around the outside footprint of the building is 2 miles in length.

Locating engineering, logistics, assembly and customer support under one roof improves efficiency, quality, communication, and responsiveness to our customers.

ONCE YOU CHOOSE THE **GOODMAN**[®] BRAND, YOU'LL PROBABLY BE A FAN FOR LIFE.



Millions of homeowners across North America are big fans already.

YOU COULD BECOME ONE, TOO!

Just go to www.goodmanmfg.com/reviews
and find out why you'll say "Thank goodness for Goodman®."

GOODMAN IS SOCIAL!

 Like us on **Facebook!**
facebook.com/GoodmanMfg

 Follow us on **Twitter!**
twitter.com/Goodman_Mfg



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.



a member of **DAIKIN** group

Our continuing commitment to quality products may mean a change in specifications without notice. © 2017 Goodman Manufacturing Company, L.P. Houston, Texas • USA
www.goodmanmfg.com



GOODMAN — A MEMBER OF DAIKIN GROUP

Daikin Industries, Ltd. (DIL) is a global Fortune 1000 company. It is a worldwide leader for residential and commercial HVAC. DIL is engaged primarily in the development, manufacture, sale, and aftermarket support of heating, ventilation, air conditioning and refrigeration equipment, refrigerants and other chemicals, as well as oil hydraulic products. DIL is headquartered in Osaka, Japan.

The company provides innovative, premium quality indoor climate management solutions to meet the changing needs of residential, commercial, and industrial customers.