

GOODMAN® BRAND
AIR CONDITIONING AND HEATING

The right choice



Air Conditioning & Heating



**Thank goodness
for Goodman.®**



A word from the CEO

Thank you for your interest in the Goodman® brand of heating and cooling systems. As we enter another challenging season in the heating, ventilation and air conditioning (HVAC) industry, I am proud of the successes, strengths and values that our company continues to deliver to our customers and your customers.

Every day we display our pride in our U.S. manufacturing facilities. From day one, the company has focused on a common goal — to produce energy-efficient, high-quality HVAC equipment. We believe that our continued focus on this founding goal has contributed not only to our sales achievements, but also to the success of the dealers selling and installing our products.

Our current product line is supported by a myriad of enhancements, many exclusive to our brands:

- A unique heat exchanger design featured in all gas furnaces
- SmartShift® heat pump defrost technology
- SmartCoil™ 5mm condenser coils
- Factory-installed filter driers
- All-Aluminum evaporator coils
- ComfortNet™ communicating control systems

As you continue to learn more about our company, brand and products, I believe that you will find us to be the most focused, deliberate, and aggressive company in the HVAC marketplace with regard to the manufacture of high-quality products and efficient customer service.

Cordially,



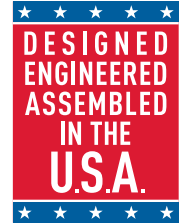
Takeshi Ebisu
President and CEO



Designed, Engineered, and Assembled in the U.S.A.



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



Daikin Texas Technology Park HVAC industrial campus now in Waller, Texas

Our commitment to designing, engineering, and assembling our products in the United States is now deeper than ever. Our massive new campus consolidates our design, engineering, testing, manufacturing, and logistics. Just outside of Houston, Texas, the facility has over 4 million square feet under one roof and is one of the largest manufacturing facilities in North America. Within the current business atmosphere where it is common for manufacturers to move manufacturing outside of the United States, we have invested right here at home. This ensures that you will get high-quality products with great availability — designed, engineered, and assembled with American Pride.



Highest Standards

Quality Products

Affordable Comfort



Limited warranty protection*

Every Goodman® brand indoor comfort product is built to our highest standards. The high quality of our products' limited warranties* reflect the high standards of our manufacturing processes. As a heating and cooling contractor, our founder, Harold Goodman, knew firsthand the concerns that homeowners expressed when it came to purchasing and installing a new central indoor comfort system. That's why all Goodman brand products provide outstanding limited warranty protection.

Why would you settle for anything less?

Here are some examples of the outstanding limited warranty protection coverage:



10-Year Unit Replacement Limited Warranty* on select gas furnace models.

If the heat exchanger fails in use at the registered, single-family homeowner's residence, within the first decade after installation, a new furnace will be provided at no charge.



Lifetime Heat Exchanger Limited Warranty* on selected gas furnace models, good for as long as the purchaser owns his/her home.

If the heat exchanger fails in use at the registered, single-family homeowner's residence, a new heat exchanger will be provided at no charge.



Lifetime Compressor Limited Warranty* on selected models, good for as long as the purchaser owns his/her home.

If the compressor fails while in use at the registered, single-family homeowner's residence, a new compressor will be provided at no charge.



10-Year Parts Limited Warranty*

Included on all residential heating and cooling products regardless of SEER or AFUE rating.



Beyond the standard warranty coverage available, dealers can also purchase a variety of extended service plans directly from their local Goodman brand distributor.



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* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the Lifetime Compressor Limited Warranty, Lifetime Heat Exchanger Limited Warranty (in each case, good for as long as you own your home), 10-Year Unit Replacement 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.



Air Conditioning & Heating



Refreshingly affordable, energy-efficient air conditioners



Refreshingly affordable, energy-efficient air conditioners

Goodman has central air conditioning systems that are designed for any home. Even on the hottest days of the year, homeowners can keep their home cool and comfortable while enjoying low energy costs with a high-efficiency Goodman® brand air conditioner.

Don't choose between affordability, durability, and optimum cooling comfort. Install a Goodman brand air conditioner and get all three.

As you review the various Goodman brand air conditioners, remember that higher SEER numbers reflect more energy-efficient systems.

Some Goodman brand Air Conditioners features include:

Energy-Efficient Compressor – Designed to provide years of reliable cooling comfort, it provides cooling performance for lower energy bills compared to lower SEER units.

Efficient Cooling Capacity – Five millimeter, refrigeration-grade premium copper tubing and aluminum fin condenser coil configuration deliver outstanding heat transfer properties with R-410A, chlorine-free, refrigerant.

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 outdoor elements.

Factory-Installed In-Line Filter Drier – Protects the refrigerant system from dirt and moisture for longer service life compared to units without filter driers.

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



Heating and cooling in a single system



Heating and cooling in a single system

Enjoy year-round indoor comfort with a Goodman® brand heat pump. These units provide both cooling and heating comfort from a single system. High-efficiency heat pumps, when compared to lower SEER/HSPF units, can lower the cost of keeping your home comfortable all year. Goodman offers a full line of heat pump systems, so you are certain to find the perfect system to fit any budget. For greater energy-efficiency savings, select a heat pump system with the highest SEER and HSPF ratings.

Some Goodman brand Heat Pumps features include:

Quiet Condenser Fan Motor – High-efficiency, single-speed motor with special three-blade fan design provides dependable, quiet airflow across the condensing coil.

Efficient Cooling Capacity – Refrigeration-grade premium copper tubing and aluminum fin condenser coil configuration deliver outstanding heat transfer properties with R-410A, chlorine-free, refrigerant.

SmartShift® Defrost Technology – Specialized time-delay defrost technology allows for a reliable, quiet and smooth transition when units enter defrost mode.

Quiet Operation – An acoustically engineered sound control top helps reduce operation noise levels compared to units without sound control enhancements.

Factory-Installed Bi-flow Liquid Line Filter Drier – Protects the refrigerant system from dirt and moisture for longer service life compared to units without filter driers.

Factory-Installed Heater Band and Suction Line Accumulator – Ensures refrigerant is ready even in extreme external temperatures for smooth and energy-efficient performance.

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 outdoor elements.



Ramp up with modulating multi-speed and variable-speed 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 brand 80% and 90+% AFUE Furnaces 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 the energy-efficient performance too. Also, allows for quick troubleshooting when 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.



Air Conditioning & Heating

Heating and cooling performance from a single self-contained unit



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 Units 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.

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

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





A lot goes into Goodman® brand Air Handlers and Coils



Goodman® Air Handlers and All-Aluminum Coils

Goodman Air Handlers with All-Aluminum evaporator coils simply work the way they're supposed to, making each one a thing of beauty.

Some Goodman brand Air Handler features include:

Variable-Speed Motors – For energy-efficient operation that helps to lower utility bills compared to single speed motors.

Field-Installed Electric Heat – From 3-25 kW for emergency heat, if ever needed.

Smartframe™ Substructure – Intelligent structural design both improves the Goodman brand air handler's lateral strength and affords a sturdy mounting framework for internal components. It also secures the foil-faced insulation covering the entire blower casing that can reduce operating noise. All of which helps to increase the durability and reliability of the unit.

Goodman brand Coils feature:

Aluminum Tube and Aluminum Fin Coil Construction – Provides time-tested and proven heat transfer efficiency designed to resist potential corrosion.

Grooved Aluminum Tubing – Offers increased surface area for efficient heat transfer performance by the unit's refrigerant.

Every Unit Is Helium Pressure-Tested – During assembly to help ensure high levels of product quality. Helium is used, in part, because its molecules are smaller than oxygen. It's just one extra step taken to help ensure a high quality product.

A TIME-TESTED SINGLE METAL SOLUTION

The All-Aluminum evaporator coil is constructed from aluminum tubing, fins and end plates giving you a single metal solution for outstanding, time-tested, heat transfer performance properties. If you're looking for an evaporator coil that offers enhanced durability, coupled with enhanced performance (as tested in our labs), this is the product for you.



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

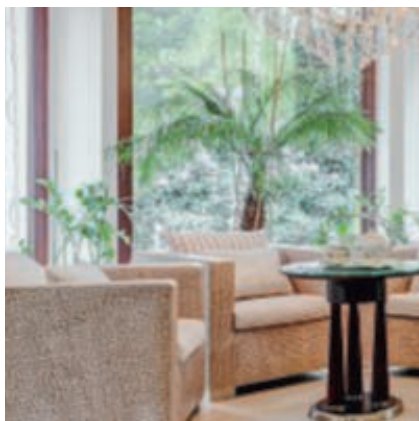
For homeowners that are continuously looking for ways to connect their lives and homes, the ComfortNet CTK04, when used with the Residential Internet Gateway™, can be used to manage home comfort more effectively with voice controls. Amazon Alexa™ and Google Home™ offer direct connectivity to the CTK04 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.

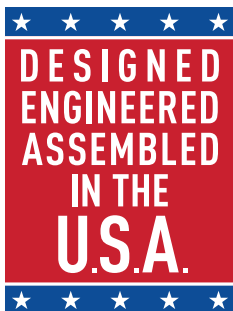


Goodman — the best HVAC brand you've never heard of

For over three decades, the Goodman® brand has concentrated on something more important than simple brand-recognition consumer advertising. We've focused on the design, engineering, and manufacture of dependable products that have helped millions and millions of homeowners achieve reliable, high-quality, and affordable indoor comfort. In addition, the Goodman brand has earned the loyalty and respect from thousands of local independent heating and cooling professionals across North America.

We believe that your local HVAC (Heating, Ventilation and Air Conditioning) professional knows best about your specific indoor comfort needs and indoor air quality solutions. When they recommend a Goodman brand product, rest assured that you and your family will soon be receiving great indoor comfort, at a refreshingly affordable price.





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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.



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