Goodman®
Air Conditioning & Heating

COILS AND AIR HANDLER UNITS

CURRENT R-410A & NEW R-32 PRODUCTS

Thank goodness for Goodman®.

Trusted for **over 45 years.**

OUR HERITAGE.

In 1954, Harold V. Goodman, founder of Goodman, became an air conditioning contractor in the rapidly growing city of Houston, Texas. As the steamy Gulf Coast city grew, so did Harold's business, and by the late 1960s, he was one of the most successful HVAC contractors in the United States.

These same principles guide Goodman today. We remain focused on providing high-quality products at an affordable price, and protecting them with outstanding limited warranties*. This clear focus has led to Goodman being a leading unit manufacturer of residential and light commercial heating and air conditioning products and systems in North America.

DEDICATED TO YOUR COMFORT.

The best comfort system is the kind you don't have to worry about. It comes on the moment you need it and then runs quietly and efficiently all year long. Goodman brand systems are loaded with features designed to provide outstanding performance for years to come.

Our systems are priced to help add comfort to your budget from a local independent Goodman brand dealer. And that's only the beginning. We want you to smile every time you open your utility bill, so we design energy-efficient technology into our units.

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

BE GOOD TO YOURSELF.

Goodman is one of the biggest names in home cooling, heating and energy-efficient home comfort. That's because Goodman lives up to its name in a big way, with time-tested energy-efficient technology, highly durable materials and spot-on manufacturing. So, no matter where you live or whether your home is small or large, Goodman probably has a solution to help keep your home comfortable.

TRUST THE EXPERTS.

When selecting a new HVAC system, your local Goodman brand contractor will help you make the right choice. After all, they are the hardworking experts in the field who can accurately evaluate your specific needs and solutions. You may not know the brand of brake pads your trusted auto mechanic installed, but you trust your mechanic to make your vehicle perform the way it was meant to. You're in good hands with a Goodman brand contractor!

ALL ALUMINUM COIL

A TIME-TESTED 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.

IS YOUR HVAC SYSTEM READY FOR AN UPGRADE?

Discover the Benefits of Goodman!

Are you looking to give your home's comfort a boost while transitioning to a lower global warming potential (GWP) refrigerant? It might be the perfect time to consider a fresh start with your heating and cooling system! In 2020, the U.S. Congress enacted the American Innovation and Manufacturing (AIM) Act to mandate the phase-down of Hydrofluorocarbons (HFCs). The AIM Act empowered the Environmental Protection Agency (EPA) to reduce HFC production and, among other advancements, usher in the use of lower GWP alternative refrigerants.

Goodman is here to make the transition smoother with our R-32 products – a choice that reflects our commitment to:

- ✔ Low GWP: R-32 not only has a lower GWP than previous refrigerants, but it is also a game-changer in refrigerants.
- ✔ Ease of Access: R-32 is readily available, ensuring a hassle-free upgrade for you.
- ✔ Proven Performance: Goodman's new line of R-32 products is designed to deliver optimal performance, for outstanding capacity and efficiency of your system.

Wondering if You Need a Full or Partial System Update? Why repairing may no longer be the best solution:

- Recharging your system with older refrigerants (such as R-410A) may be expensive as refrigerants are phased out.
- Multiple repair visits can be (and become more) costly as older system parts may be harder to find.
- Refrigerant (R-410A and R-32) incompatibility may result in the system not working.
- R-32 and R-410A components may not be compatible.

Whether it is a full system upgrade or a smaller update, your Goodman contractor will be there every step of the way to ensure you make the best decision for your comfort needs.

COILS

R-32

CAPEA*3

Upflow, Downflow

CAPTA*3

Upflow, Downflow

CAPFA*3

Upflow, Downflow

CHPEA*3

Upflow, Downflow

CHPTA*3

Horizontal

CAUTA

Upflow, Downflow

R-410A

CAPEA/CAPE Cased

Upflow, Downflow

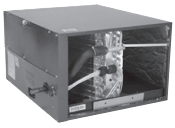
CAPTA

Upflow, Downflow

CAPT Cased

Upflow, Downflow

CHPF Cased



Horizontal

CHPT Cased

Horizontal

CHPTA Cased

Horizontal

CHPE

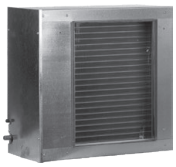
Horizontal

R-410A & R-22

CAPF Cased

Upflow, Downflow

CSCF Slab



***R-410A** Only*

CAPFA Cased

Upflow, Downflow

CAUF Uncased

Upflow, Downflow

CAUFA Uncased

Upflow, Downflow

AIR HANDLERS

R-32

AMST*13

9 TAP ECM

230V AHVE*13

Variable-Speed ECM

115V AHVE*03

Variable-Speed ECM

AMVT*13

Variable-Speed ECM

AWST*13

Multi-Speed ECM

ACST*13

9 Tap ECM

R-410A

AMST

9 Tap ECM

230V AHVE

Variable-Speed ECM

115V AHVE

Variable-Speed ECM

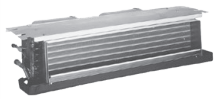
AMVT

Variable-Speed ECM

AMVE

Variable-Speed ECM

ACSF



Direct-Drive, Multi-Speed

AWST

Multi-Speed ECM

MBVK Modular Blower

Variable-Speed ECM
R-32 Compatible

MBVB Modular Blower

Variable-Speed ECM
R-32 Compatible

It's **Good** to know your HVAC system.

If you have a heat pump outside your home, the air handler is likely the indoor component comprising your two-part, split system that keeps the indoor temperature of your home comfortable all year long. Most often, air handlers are located in the attic, basement or a dedicated closet, and may closely resemble the shape of a gas furnace. As its name suggests, an air handler "handles" the air inside your home and delivers warm or cool indoor air throughout your entire home. What would we do without delivery!

The PB&J of HVAC

Depending on the design of your home, an air handler may be a principal indoor component of your heat pump system. When properly matched with the capacity and SEER2 (Seasonal Energy Efficiency Ratio) of your heat pump, the air handler is designed to efficiently circulate conditioned air through your home's duct work. Depending on the season, the circulated air is either cool or hot. According to the Air Conditioning, Heating and Refrigeration Institute (AHRI), mismatched systems are at least 30 percent less efficient than matched systems. Homeowners should keep this efficiency loss in mind when they are considering replacing only the outdoor unit portion of their split system.

In coordination with your HVAC system's ductwork, the air handler simultaneously creates a recurring cycle, delivering air out to your indoor spaces through supply vents and drawing air in through the return vents. Even if your is properly sized with your outdoor heat pump, a licensed professional HVAC dealer should ensure that the air supply and movement through the air handler are balanced.

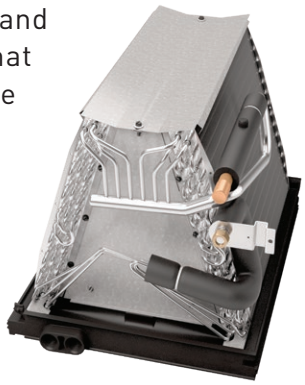
Parts of an Air Handler

Coil

The indoor coil or evaporator coil is a crucial component of the refrigeration cycle.

When your home requires cool indoor air, the coil is cold and removes humidity as the indoor air passes over it. This makes the conditioned air feel cooler throughout your home.

When your home requires warm indoor air, the coil is warm and transfers heat to the air that passes over it. This makes the conditioned air feel warmer throughout your home.



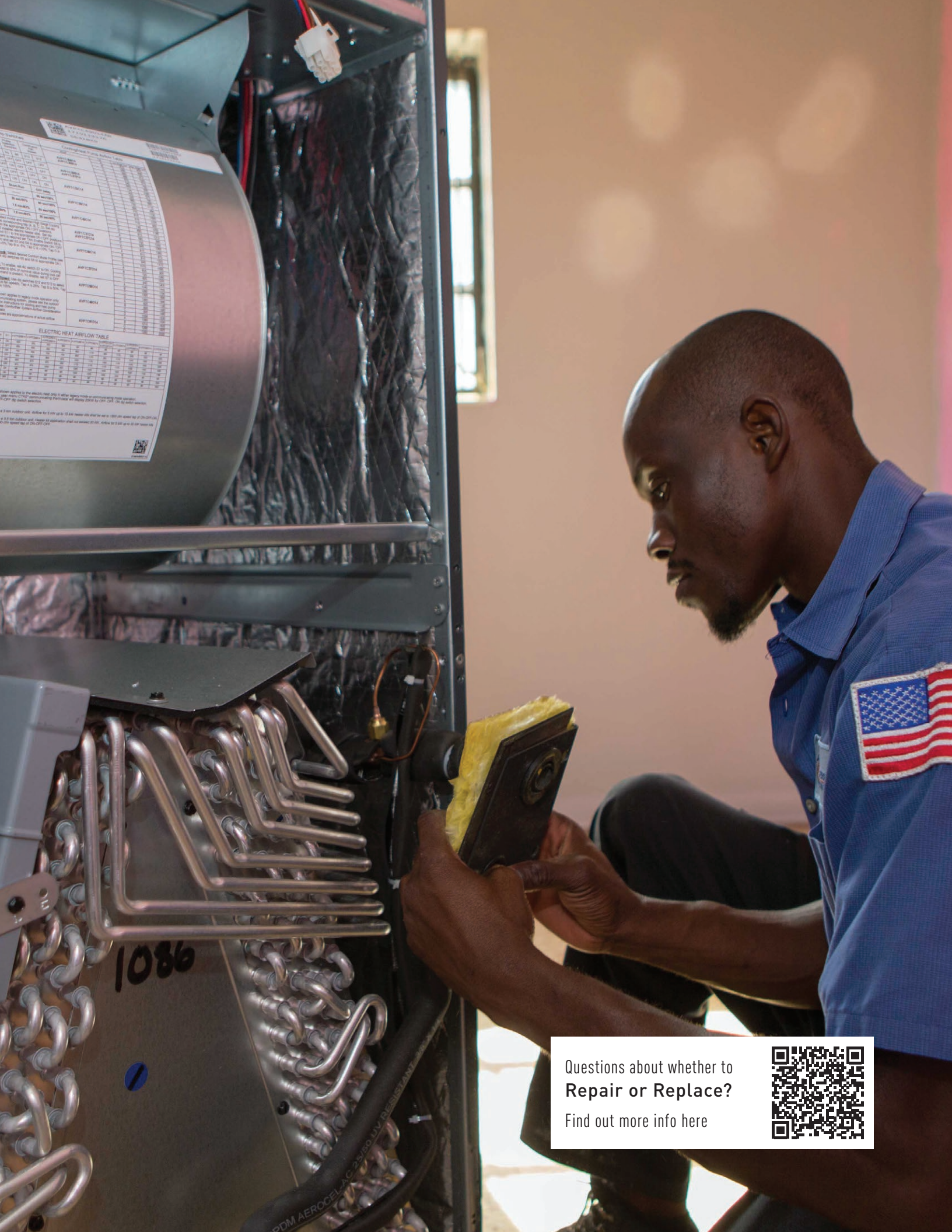
Blower Motor

The blower moves the air to the connected ductwork to circulate it into your indoor spaces. The blower motor may be a single speed, multi-speed or variable speed model.

Single-speed: Operates at one, fixed speed. These motors are cycled on and off, as required by a thermostat or control system.

Multi-speed: Has the ability to operate at multiple speeds, depending on the demand. The multi-speed blower motor may operate at 100% to meet a high-demand thermostat or control system setting. A low-stage demand will reduce the speed of the blower motor.

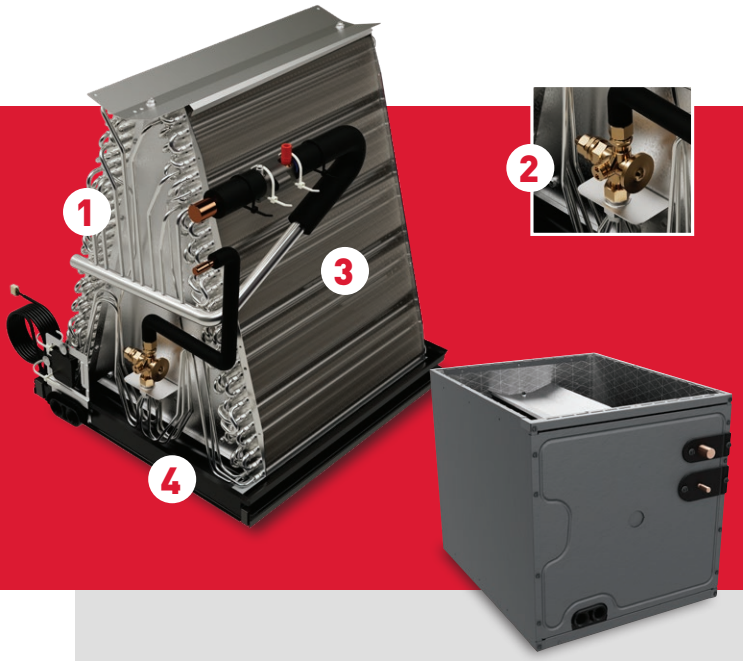
Variable-speed: Varies the fan speeds to precisely control the flow of heated or cooled air throughout your home based on your indoor comfort requirements. A variable speed motor can help control indoor humidity levels and achieve a consistent temperature in your home.



Questions about whether to
Repair or Replace?
Find out more info here

The art of **precision.**

Installing the correct coil is essential for getting the highest performance and comfort from your system.



PREMIUM COIL FEATURES INCLUDE*:

1. **Aluminum Tube and Aluminum Fin Coil Construction –** Provides time-tested and proven heat transfer efficiency designed to resist potential corrosion.
2. **Factory-mounted thermal/electronic expansion valve –** Supports simple installation and controls refrigerant flow for efficient cooling.
3. **Grooved Aluminum Tubing –** Offers increased surface area for efficient heat transfer performance by the unit's refrigerant (compared to units without).
4. **Thermoplastic drain pan –** handles condensate for years without rusting.

3 STEP TESTING PROCESS:

Initial Pressure-Leak Test – To ensure high levels of product quality, coils are pressure tested during assembly. It's just the first step in three leak test processes to help ensure a high-quality product.

Secondary Pressure-Leak Test – Before the coils leave the assembly line, a secondary pressure-leak test is conducted with hand-held devices to check brazed joints.

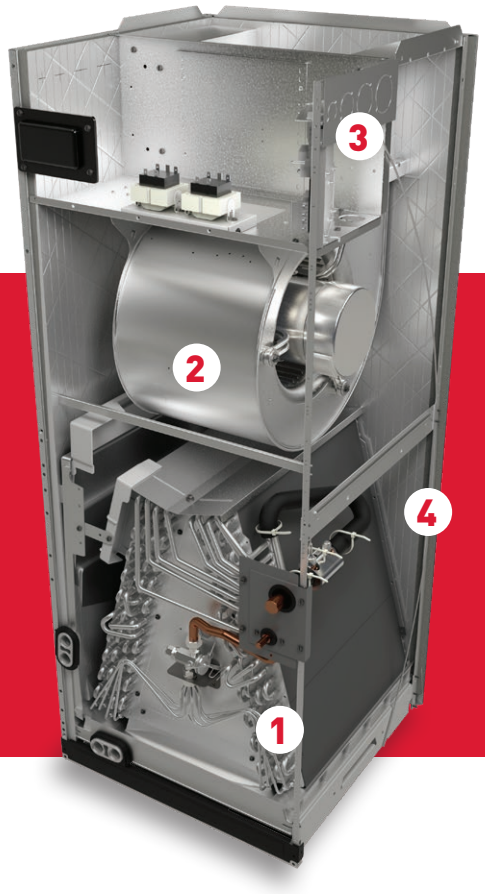
'Hound-Dog' Vacuum Test – Coils undergo automated testing for leak 'sniffing' during the 'hound-dog' vacuum test.

AlumaFin7™ Evaporator Coil

The *AlumaFin7* joins an array of products and components designed to deliver outstanding heat transfer properties. The evaporator coil design provides many features and benefits to help create great value for enhanced indoor comfort.

* Some features/technology vary by model.

Quality and **time-tested performance.**



Your air handler is an essential part of your "split" heating and cooling system.

PREMIUM AIR HANDLER FEATURES INCLUDE*:

1 **All-Aluminum Coils –** Designed for efficient heat transfer and durable performance and corrosion resistance due to rust.

2 **Blower Motor –** The blower moves the air to the connected ductwork to circulate it into your indoor spaces. The blower motor may be a single speed, multi-speed or variable speed model.

Single-speed: Operates at one, fixed speed. These motors are cycled on and off, as required by a thermostat or control system.

Multi-speed: Has the ability to operate at multiple speeds, depending on the demand.

Variable-speed: Varies the fan speeds to precisely control the flow of heated or cooled air throughout your home based on your indoor comfort requirements.

3 **Electric Heat Strips –** Provides an auxiliary, electric heating option when conditions arise that require activation.

4 ***Smartframe* Substructure –** Intelligent structural design both improves the air handler's lateral strength and provides a sturdy mounting framework for internal components.

Discover more at www.goodmanmfg.com

* Some features/technology vary by model.

Peace-Of-Mind

Limited Warranties

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?

* Limited Warranties vary by product model. Complete warranty details available from your local dealer/contractor or at www.goodmanmfg.com.

10 YEAR PARTS LIMITED WARRANTY*

10-Year Parts Limited Warranty*

* Complete warranty available from your local dealer or at www.goodmanmfg.com. Limited Warranties vary by product model. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in Florida, California, or Québec. The duration of warranty coverages in Texas and Florida differs in some cases. Other limitations and exclusions apply, refer to complete warranty details for full list of limitations and exclusions.

ASURE PROVIDES YEARS OF WORRY-FREE COMFORT

With *ASURE* Extended Service Plans‡, you will have your choice of additional options to help with unexpected costs of replacement parts or labor expenses should your Goodman brand equipment requires covered service. If a covered repair is needed, an Authorized *ASURE* Dealer will respond promptly and make repairs with quality Goodman brand parts.

ASURE coverage is affordable, on average costing only pennies a day. It's valuable coverage that protects you today and, in the future, no matter how much the cost of service may increase over the life of your Goodman brand equipment. With an *ASURE* extended service plan, your comfort is covered.

An *ASURE* Extended Service Agreement is only available through an Authorized *ASURE* Dealer. Visit the Dealer Locator to find an *ASURE* Dealer near you.

‡ *ASURE* Extended Service Plans vary by product model. Complete details about the Extended Service Plan options available from your *ASURE* dealer.

Asure
EXTENDED SERVICE PLAN

To learn more about financing and extended service plans, ask your Goodman contractor!

Coil and Air Handler **specifications**

Coils

MODELS	NEW R-32 Models							CHPF Cased	CAUFA / CAUF Uncased	CSCF Slab
	CAPEA/ CAPE** /CAPEA*3**	CAPFA/CAPF /CAPFA*3	CHPTA/CHPT /CHPTA*3	CAPTA/CAPT /CAPTA*3	CHPE** /CHPEA*3**	CAUTA	CSCT			
Refrigerant	R-410A / R-32 (CAPEA*3** is R-32)	R-410A & R-22 / R-32 (CAPFA*3 is R-32)	R-410A / R-32 (CHPTA*3 is R-32)	R-410A / R-32 (CAPTA*3 is R-32)	R-410A / R-32 (CHPEA*3** is R-32)	R-32	R-32	R-410A	R-410A & R-22	R-410A & R-22
10-Year Parts Limited Warranty*	●	●	●	●	●	●	●	●	●	●
ALL-ALUMINUM Evaporator Coil	●	●	●	●	●	●	●	●	●	●
AlumaFin7™ Coil	●	●	●	●	●	●	N/A	N/A	●	N/A
Rust-Resistant, High-Temperature Thermoplastic Drain Pan	●	●	●	●	●	●	●	●	●	●
Metering Device	EEV	Piston	TXV	TXV	EEV	TXV	TXV	Piston	Piston	Piston
Other Features	Upflow, Downflow	Upflow, Downflow	Horizontal	Upflow, Downflow	Horizontal	Upflow, Downflow	Horizontal Slab	Horizontal	Upflow, Downflow	Horizontal Slab

* Complete warranty details available from your local dealer or at www.goodmanmfg.com. Limited Warranties vary by product model. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in Florida, California, or Québec. The duration of warranty coverages in Texas and Florida differs in some cases. Other limitations and exclusions apply, refer to complete warranty details for full list of limitations and exclusions.

** Compatible with Goodman SD side discharge inverter outdoor unit. Modular blower MBVK models are the ONLY ones compatible with the Goodman GTST Connected Thermostat

Air Handlers

MODELS	NEW R-32 Models						AMVE Multi-Position	MBVB MODULAR BLOWER	MBVK MODULAR BLOWER
	230V AHVE/ 230V AHVE*13 Multi-Position	115V AHVE/ 115V AHVE*03 Multi-Position	AMVT AMVT*13 Multi-Position	AMST AMST*13 Multi-Position	AWST/ AWST*13 WALL MOUNT	ACSF/ACST*13 Ceiling-Mount			
Refrigerant	R-410A / R-32 (230V AHVE*13 is R-32)	R-410A / R-32 (115V AHVE*03 is R-32)	R-410A / R-32 (AMVT*13 is R-32)	R-410A / R-32 (AMST*13 is R-32)	R-410A / R-32 (AWST*13 is R-32)	R-410A / R-32 (ACST*13 is R-32)	R-410A	R-410A	R-410A
Furnace Integration Kit required for R-32 compatibility	N/A	N/A	N/A	N/A	N/A	N/A	N/A	●	●
10-Year Parts Limited Warranty*	●	●	●	●	●	●	●	●	●
ComfortBridge™ Compatible	*ComfortNet*™ Only	*ComfortNet*™ Only	●	N/A	N/A	N/A	●	●	*ComfortNet*™ Only
ALL-ALUMINUM Evaporator Coil	●	●	●	●	●	●	●	N/A	N/A
Factory-Mounted TXVs	Factory-mounted EEV	Factory-mounted EEV	●	●	●	Factory-mounted TXV included on the ACST*13	Factory-mounted EEV	N/A	N/A
Tonnage	2 to 5 Ton	2 to 5 Ton	2 to 5 Ton	2 to 5 Ton	1 ½ to 3 Ton	1 ½ to 2 ½ Ton	2 to 5 Ton	1 ½ to 5 Ton	1 ½ to 5 Ton
Motor Type	Variable-Speed ECM	Variable-Speed ECM	Variable-Speed ECM	9 Tap ECM	Multi-Speed ECM	Direct-Drive, Multi-Speed	Variable-Speed ECM	Variable-Speed ECM	Variable-Speed ECM
UL 60335 2-40 Compliant	●	●	●	●	●	●	●	●	●

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

People across North America are big fans already.
Once you choose a Goodman brand,
you'll probably be a big fan, too!

Just go to www.goodmanmfg.com/reviews

CLEAN COMFORT®
INDOOR AIR ESSENTIALS

Our complete family of *Clean Comfort* products helps to improve indoor air quality:

FILTRATION

PURIFICATION

HUMIDITY CONTROL

DEHUMIDIFICATION

VENTILATION

ZONING

LEARN MORE AT: www.cleancomfort.com

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facebook.com/GoodmanMfg

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

Follow us on **Instagram!**
instagram.com/Goodman_Mfg

R32

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.

WARNINGS:
Always use a licensed installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.

Use only those parts and accessories supplied or specified by the manufacturer. Ask a licensed contractor to install those parts and accessories. Use of unauthorized parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.

Read the Product Manuals carefully before using this product. The Product Manuals provide important safety instructions and warnings. Be sure to follow these instructions and warnings.

For any inquiries, contact your local Goodman brand sales office.

Goodman® Air Conditioning & Heating

A DAIKIN BRAND

Our continuing commitment to quality products may mean a change in specifications without notice.

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