



The new degree of comfort.™

Air | Heat Pumps  
RP20

# THE BEST COMFORT

FROM EVERY ANGLE

The EcoNet™ Enabled, Inverter-Driven Rheem® *Prestige*® Series Variable Speed Heat Pump offers the solid technology and energy-saving performance you've come to expect from Rheem. The quiet comfort is definitely a step up in comfort—for your entire family.

## RP20 *Prestige*® Series

Cooling Efficiencies up to 20 SEER / 14.5 EER

Heating Efficiencies up to 13 HSPF<sup>##</sup>



### Variable-Speed Technology is Smart Comfort



With variable-speed technology, you can rely on your heat pump to adapt quickly and consistently to your heating and cooling needs, regardless of the conditions outside.

### Energy Efficiency and Savings

Our Variable Speed Heat Pump provides cooling efficiencies up to 54% higher and heating efficiencies up to 58% higher than typical heat pump designs. You can also expect more than \$7,000 in lifetime savings.\*\* Rheem inverter-driven technology provides just the right amount of heating and cooling under all conditions for dependable comfort and energy savings year-round.

### Quiet and Efficient Operation

By running at lower speeds throughout the day, our variable-speed model streamlines airflow and reduces vibration, running quieter than other systems.

### Smart Controls and Alerts

Innovative EcoNet™ technology sends you important alerts and reminders to keep your system working at its best. Plus, it's easy to adjust your comfort settings from home or away.\*



# Savings: Variable-Speed Efficiency

A typical variable-speed unit is capable of adjusting its capacity to meet building loads under a wide range of outdoor temperatures. Because inverter-driven solutions operate more efficiently, they actually perform better AND save on energy costs.

*\*Most commonly replaced system. Energy savings shown are calculated per AHRI (Air Conditioning, Heating, and Refrigeration Institute) annual operating costs and represent directional numbers most applicable to typical cooling and heating requirements within the mid-latitudes of the U.S.*

Annual Energy Cost Savings for Cooling  
10-SEER Baseline\*



Annual Energy Cost Savings for Heating  
6.8-HSPF Baseline\*



## Inverter-Driven Comfort in Every Season

EcoNet™ Enabled, Inverter-Driven Rheem® *Prestige*® Series Variable Speed Heat Pumps deliver all the **smart comfort and energy saving performance** you expect from Rheem. With inverter technology, the variable-speed compressor adapts to handle everything from the mildest spring and fall days, to harsh winters, to sweltering summers—precisely, dependably, and efficiently. This results in continual and efficient adjustments of your comfort needs, offering more precise all-day temperature, humidity, and indoor air quality control.

The compressor found in the *Prestige* Series Heat Pump provides **superior performance and reliability**. Variable speeds allow your unit to adapt to surrounding conditions with more precision and efficiency, avoiding temperature fluctuations that are sometimes associated with standard single-stage systems. And because your variable-speed system is efficiently adjusting to your heating and cooling needs, it's also able to deliver humidity and indoor air quality control that is not possible with standard on/off single-stage designs.

## Energy-Saving Efficiency Meets High Performance

It's also easy to **save on energy costs** with the *Prestige* Series Heat Pump. The variable-speed operation **outperforms single-stage systems** and provides you with a new level of adaptability and precision. While that means more comfort for your home, it also means more energy savings. The RP20 Heat Pump also provides the extra heat needed on those cold winter days and nights, reducing the costly expense of auxiliary heating. In fact, our Variable Speed Heat Pump is capable of meeting a building's heating load down to approximately 0° F.<sup>1</sup> The overdrive feature maintains your home's comfort when outside temperatures are as high as 107° F. To get the most performance from your unit, count on a Variable Speed Heat Pump from Rheem.





## Engineered for Energy-Saving Performance

The *Prestige*® Series Heat Pump knows how to efficiently keep the temperature right where it needs to be. Since it has variable speeds, it can adjust to meet non-peak heating and cooling demands. So leave the thermostat alone and let your heat pump do the work—for a superior, money-saving performance that's always in season.

## Count on Staying Comfortable in Every Season

A smart, efficient design makes the Rheem® *Prestige* Series Heat Pump one of your best options for staying comfortable inside. Each new unit includes a generous list of features that work together to bring you quiet, efficient, and reliable indoor comfort.

Reliable and legendary **1 scroll compressor** technology makes the *Prestige* Series as efficient as it is durable. The **2 optimized fan orifice** also contributes to quieter operation, optimal airflow, and better overall performance. Simply put, you get efficient comfort that lasts a very long time. The built-in defrost capabilities are an added benefit that means your unit spends less time defrosting and more time warming your home.

A quieter and more durable unit starts with our smart new **3 composite base pan**. The design helps eliminate corrosion and adds to quieter performance. Extensive UV testing was done to ensure the base pan stays looking new for years to come. Our enhanced mufflers and improved refrigerant tubing design also contribute to a quieter, more reliable operation. For added strength, **4 curved louver panels** and **5 rugged corner posts** on the exterior do an excellent job of protecting the inside.

Curb appeal is not lost on our new *Prestige* Series. Our heat pumps look as good as they operate. Modern cabinet aesthetics allow your unit to put its best face forward, and a powder coat paint system provides a lasting, professional finish.

Fast and accurate installation and maintenance means your savings start with the installation of your new unit. Our *Prestige* Series Heat Pumps are built to go in fast and easy. The **6 easy to access control box**, and roomy diagnostic service window mean maintenance calls go quickly, saving you time and money.



The RP20 *Prestige*® Series Heat Pump is designed to operate with the EcoNet Smart Home System. EcoNet technology combines select Rheem Heating, Cooling and Water Heating solutions into one integrated network so you'll receive important alerts and notifications about your home comfort systems. Plus, you can adjust settings for efficiency and comfort from anywhere with the control center, free mobile app, or mobile-friendly web portal.



# We Thought of Everything... And Then Some

Designed to keep your family comfortable for years to come, the *Prestige*® Series Heat Pump was developed using our 360°+1 design philosophy. We strive to deliver the very best homeowner experience by evaluating every detail of the product from every angle. That's 360°+1. And that's why you can count on Rheem® air and water solutions to bring you and your family years of comfort.



## How to Speak HVAC

What's your stage?

### Single-Stage

One level of operation, with no differentiation between peak or non-peak heating and cooling demands.

### Variable-Speed

Varying levels of operation based on cooling needs. This modulating technology provides more precise temperature control, lower humidity, and greater efficiency.

### Efficiency

Description for how effectively incoming energy is converted to outgoing energy. The higher the number, the more efficient the unit—and the lower the operating costs.

### HSPF

Heating Seasonal Performance Factor is used to express the efficiency of heat pumps. The higher the HSPF, the more efficient the unit.

Nice HSPF!

### SEER

Seasonal Energy Efficiency Rating is used to express the efficiency of an air conditioning unit, or a heat pump in cooling mode. The higher the SEER rating, the more efficient the unit.

### EER

Energy Efficiency Ratio is the cooling capacity of the air conditioner in BTUs per hour to the total electrical input in watts. This measure is determined by comparing test units to the Air Conditioning and Refrigeration Institute specifications.

### Compressor

The compressor plays an integral role in cooling your home. It is responsible for pumping refrigerant through the refrigerant lines and the coil, making the transfer of heat from inside your house to the outdoors possible.

When it's time to upgrade or replace your system, Rheem makes it easy. Our full line of energy-efficient heat pumps are built for your comfort—helping your family stay the perfect degree of comfortable, while saving on energy and maintenance costs.

Visit [Rheem.com](http://Rheem.com) today to learn more.

## Benefits At-A-Glance

### Cooling Efficiency

Up to 20 SEER/14.5 EER

### Heating Efficiency

Up to 13 HSPF

### Sound Level

Features like our smart new composite base pan contribute to sound levels as low as 59dBA

### Compressor

Inverter-driven, variable-speed scroll compressor with modulating technology.

### Warranty<sup>1</sup>

Parts – 10-year  
Conditional unit replacement – 10-year



Rheem Heating, Cooling & Water Heating

As the only brand bringing innovative air and water solutions to homes and businesses around the world, Rheem® continues to deliver advanced comfort, savings and experiences to our customers—just as we've done for nearly 100 years.

To learn more about our products, including our line of Integrated Home Comfort Solutions, visit us online at [Rheem.com](http://Rheem.com).



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In keeping with its policy of continuous progress & product improvement, Rheem reserves the right to make changes without notice.

**YOUR LOCAL RHEEM CONTRACTOR**

<sup>1</sup>2, 3 and 4 Ton only.

<sup>2</sup>Purchase and installation of EcoNet™ WiFi Kit and EcoNet Control Center required; WiFi broadband Internet connection required; must be paired with EcoNet Enabled Gas Furnace or Air Handler.

<sup>3</sup>\*Based on DOE calculation for estimated national operating costs for a 3 ton 10 SEER vs 20 SEER, 6.8 HSPF vs 13 HSPF, and a 15 year life expectancy.

<sup>4</sup>For complete details of the limited and conditional warranties, including applicable terms and conditions, contact your local Contractor or go to [Rheem.com](http://Rheem.com) for a copy of the product warranty certificate. Conditional warranties must be registered through [RegisterMyUnit.com](http://RegisterMyUnit.com).

<sup>5</sup>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 [EnergyStar.gov](http://EnergyStar.gov).

