



The new degree of comfort.®



The EcoNet® Smart Thermostat

- **Built-In WiFi**
- **Works With Alexa** – Enables the use of voice commands to control the HVAC system with Amazon Echo or Echo Dot devices¹
- **4.3" LCD Touch Screen**
- **Local Weather** – Current conditions plus 6-day forecast
- **5 Operating Modes** – Heat, Cool, Auto, Emergency Heat and Fan Only
- **7-Day Programmable Schedule** – Offers comfort without thought
- **One-Touch Away** – Quickly switch to your energy-saving away preferences
- **Vacation Scheduling** – Allows you to save while you're away and come home to comfort
- **Motion Sensor** – Automatically wakes the screen as you approach
- **Standby Screen** – Displays indoor temperature and current weather

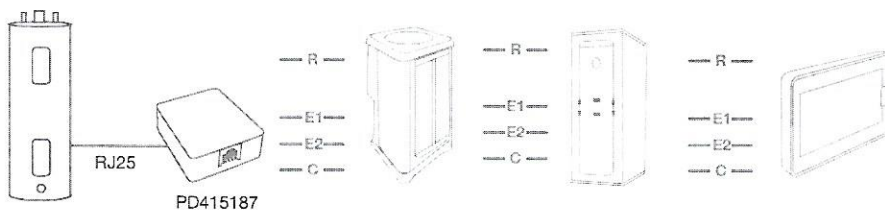


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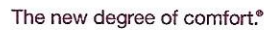
Installation / Setup Features

- **4-Wire Configuration**
- **Custom Push Buttons for Tool-Free Wiring**
- **Automatic Equipment Configuration** – Automatically detects equipment and configures equipment with optimal settings for hassle-free installation
- **Contact Info Sync** – Keeps contractor contact information ready when it's needed
- **Equipment Information** – Displays software version, model number and serial number of connected equipment
- **Automatic Brand Display** – Changes the screen logo based on equipment model number
- **Remote Room Sensor²** – Supports wired remote temperature sensor

¹ Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. ²Works with Aprilaire 8051.



Terminal	Function
R	Power - 24VAC
C	Common / Ground - 24VAC
E1	EcoNet Communications Bus Wire 1
E2	EcoNet Communications Bus Wire 2



- **Automatic Changeover** – Transitions between heating and cooling automatically to keep the house comfortable
- **Integrated Water Control** – Enables easy water heater management
- **Smooth Arrival** – Prompts the system to start ahead of schedule to ensure the home is at the desired temperature at the scheduled time
- **Humidity Control** – Supports humidifier accessories or over-cool based dehumidification
- **Detailed Operating Status** – View pertinent equipment status information and run times
- **Continuous Fan** – Offers 5 speeds (Low, Medium Low, Medium, Medium High, High)
- **Short-Cycle Protection** – Avoids damage to equipment from short run cycles

- **Active Monitoring** – Alerts to problems that need immediate attention
- **Remote Control** – Allows adjusting of comfort and settings from anywhere using a mobile device
- **Service Alerts** – Sends routine maintenance reminders
- **Air Filter Monitoring** – Detects when it's time to replace the air filter
- **Alarm History** – Displays time-stamped alarm codes with clear descriptions

- 5-Year limited parts warranty (from date of installation)
- If installed as part of a Rheem® system, the EcoNet Smart Thermostat will be covered under the applicable product parts warranty. Refer to manufacturer product warranty card for specific details.

*Models not EcoNet Enabled: RA1724AJ2NB, RA1736AJ2NB, RA1748AJ2NB, RA1760AJ2NB

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The new degree of comfort.®

Air | Heat Pumps
RP20

THE BEST COMFORT^o

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.

Prestige Series RP20

Cooling Efficiencies up to 20 SEER / 14 EER

Heating Efficiencies up to 11.5 HSPF



Variable-Speed Technology is Smart Comfort



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

Energy Efficiency & 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 & Efficient Operation

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

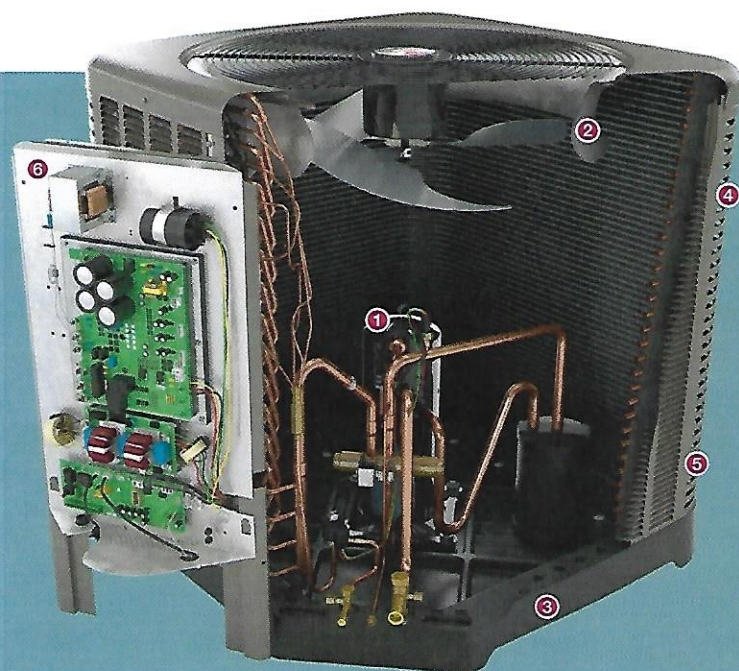
Smart Controls & Alerts

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*.



HEATING  COOLING  WATER HEATING

Rheem.com



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 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 dependable indoor comfort.

Dependable & 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 & more durable unit

Our smart new ③ composite base pan's 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 dependable 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

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 & accurate installation & maintenance

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 Rheem *Prestige* Series Variable Speed Heat Pump is designed to operate with the EcoNet Smart Thermostat. This easy-to-use thermostat optimizes system performance and includes great features like:

- Simple scheduling and one-touch energy savings
- Remote access via the EcoNet App
- Important equipment alerts sent directly to your phone or email
- Convenient voice control – just ask “Alexa, make home cooler”⁵



EcoNet Mobile App



EcoNet Smart Thermostat





Our Philosophy of Innovation

We meticulously evaluated every detail of this product from every angle, considering the work that goes into installing and servicing our products, as well as how we can deliver the very best homeowner experience. And then we take it a step further. That's 360°+1. And that's why you can count on your heat pump to bring you and your family years of comfort.



How to Speak Heating & Cooling

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.

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.

HSPF

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

Ready to upgrade or replace your old system?

Visit Rheem.com today to learn more.



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 at Rheem.com

Benefits At-A-Glance

Cooling Efficiency:
Up to 20 SEER / 14 EER

Heating Efficiency:
Up to 11.5 HSPF

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

Compressor:
Inverter-driven, variable-speed scroll compressor with modulating technology

Limited Warranty*:
Parts—10-year
Conditional unit replacement—10-year



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

Rheem.com

YOUR LOCAL RHEEM CONTRACTOR

*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. †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. ‡WiFi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet Smart Thermostat. Receipt of notifications depend on home WiFi set up. *12-, 3-, and 4-Ton only. †Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. ‡For complete details of the limited and conditional warranties, including applicable terms and conditions, contact your local contractor or go to Rheem.com for a copy of the product warranty certificate. Conditional warranties must be registered through RegisterMyUnit.com.

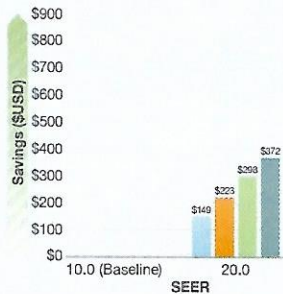


Savings: Variable-Speed Efficiency

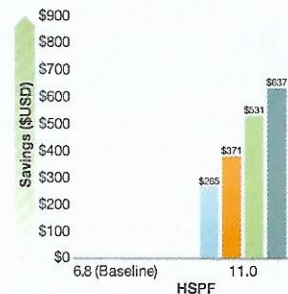
A typical variable-speed unit is capable of adjusting its capacity to meet building loads under a wide range of outdoor temperatures. Because inverter-driven solutions operate more efficiently, they actually perform better AND save on energy costs.

*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
10.0-SEER Baseline*



Annual Energy Cost Savings for Heating
6.8-HSPF Baseline*



Unit Capacity 2-Ton 3-Ton 4-Ton 5-Ton

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 dependability**. 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° F⁴. 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.

