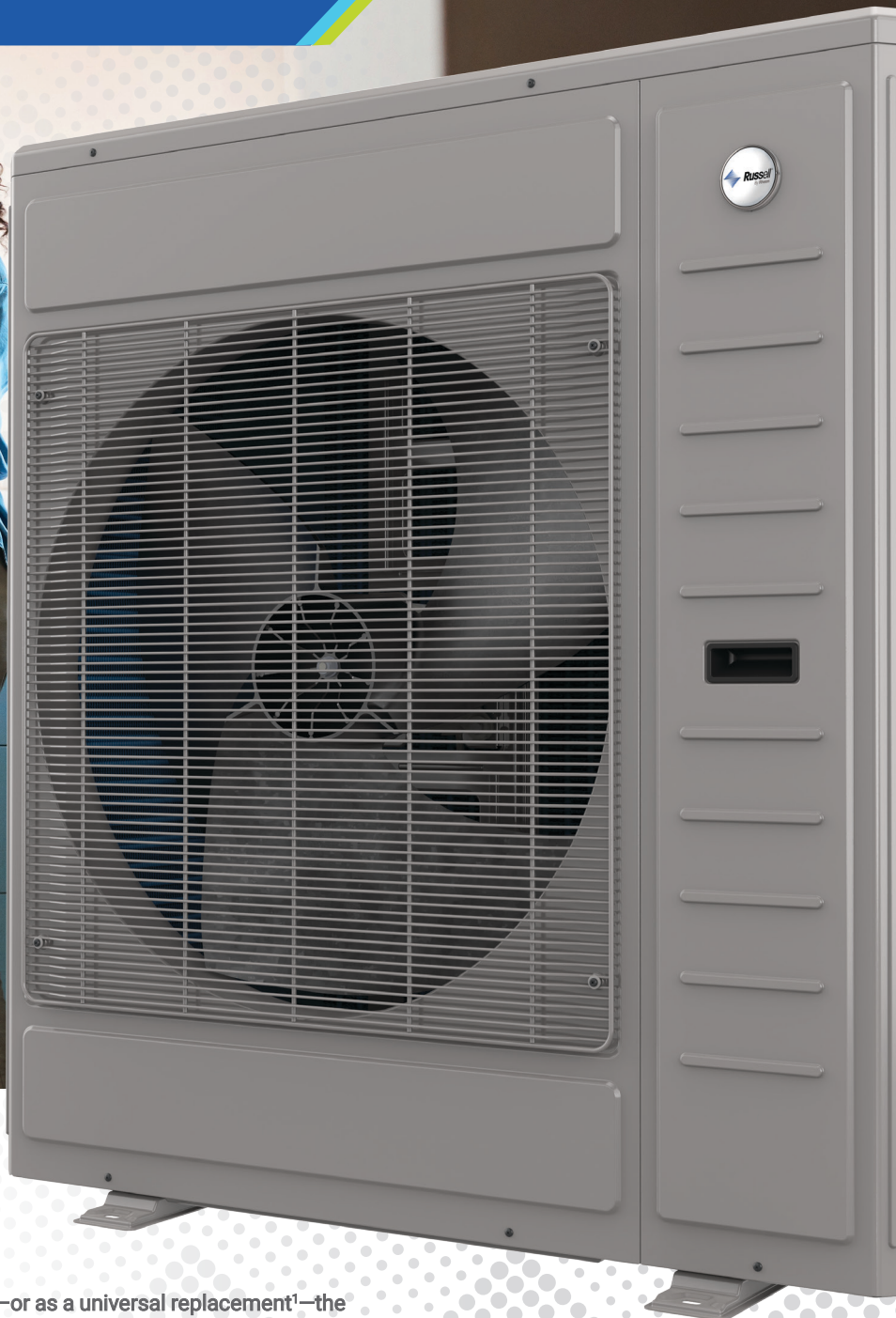


**TIGHT SPACES. QUIET PLACES.**  
ENDLESS POSSIBILITIES.



Side-Discharge  
Universal Heat Pump  
RD17AZ



**VANTIX™**

**Russell® by Rheem Vantix™ Line**

Compatible with nearly any existing HVAC system—or as a universal replacement<sup>1</sup>—the EcoNet® enabled Russell by Rheem Vantix Line RD17AZ Universal Heat Pump excels in all install situations. And as part of our Sound & Space Constraint Solution, it features a compact footprint, making it the perfect choice when space is at a premium.

[RussellByRheem.com/Vantix](https://RussellByRheem.com/Vantix)



# Comfort & Efficiency

## Innovation You Can Count On

Patented industry-first features and advanced design make the Russell by Rheem Vantix RD17AZ a smart choice.



### Peace-Of-Mind Performance

Relax, you're covered by one of the best warranties in the industry<sup>2</sup>—10 Year Conditional Parts when installed as a heat pump only or as part of a system.



### Reduced Emissions

Households generate 72%<sup>4</sup> of greenhouse gas emissions, so switching to a heat pump can make a big difference for the environment—today.



### Energy Savings

Just like a vehicle's MPG rating, the higher the SEER2, EER2 and HSPF2 rating (Seasonal Energy Efficiency Ratio / Energy Efficiency Ratio / Heating Seasonal Performance Factor), the higher the efficiency of your heat pump—resulting in more energy savings. Keep in mind, other factors such as system matching, sizing, ductwork and installation also impact the overall efficiency. By working with a properly trained contractor, you can be confident that you are choosing the best heating and cooling system for your home's comfort—and your finances.



### High-Strength Curb Appeal

Steel panels provide excellent support and protection to internal components, while the overall modern cabinet aesthetics including the powder coat paint system and rust-resistant screws allow your unit to put its best face forward for years to come.



### Lower Environmental Impact

The 7mm condenser coil reduces refrigerant requirements up to 15%. This lowers the amount of greenhouse gases emitted while contributing to our sustainability goal of a 50% reduction in our greenhouse gas footprint by 2025.<sup>5</sup> A win for all of us.



### Genuine Comfort

Inverter driven, variable speed, twin rotary compressor technology features fully variable cooling and heating operation between 45% and 100% of capacity<sup>3</sup> to continuously meet your ever-changing needs. You'll enjoy exact temperature and advanced humidity control that combine to exceed your optimal comfort expectations.



### Universal Install Compatibility

The RD17AZ works with nearly any HVAC system option—including Russell by Rheem EcoNet enabled and non-communicating systems, or as a universal replacement with minimal alterations required.<sup>1</sup> Whether your choice is driven by space or sound constraints, electrification initiatives or dual fuel opportunities—this is the comfort solution for you.



### Space-Saver Solution

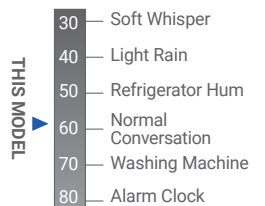
Part of our Sound & Space Constraint Solution, the RD17AZ Side-Discharge Universal Heat Pump is the ideal product for when installation locations are cramped. It features a small footprint with size options as low as 40.2" wide, 16.4" deep and 36.6" tall. This unit was designed to deliver whole-home comfort quietly and efficiently—further proof that good (and quiet) things come in small packages.



### Quiet Operation

Efficient home comfort shouldn't be noisy. That's why our heat pumps are designed with acoustics in mind. Sound-dampening features such as refrigerant tubing design, fan blade approach and innovative compressor and drive technologies ensure that as efficiency goes up, sound levels stay low—as low as 58 dB.<sup>6</sup>

#### SOUND RATING



To learn more visit  
[RussellByRheem.com/Vantix](https://RussellByRheem.com/Vantix)

VANTIX™

# ly Made **Universal**



## Making It Easy to Live Both **Comfortably** and **Sustainably**

Many Russell by Rheem products have sustainability features, but the RD17AZ has earned our Sustainability Standout® Seal<sup>7</sup>, indicating it's among the best of the best. We created the seal to help you more easily find the products that save energy, save money and save the planet.



## Among Heat Pumps This One's A Star<sup>8</sup>

Earning ENERGY STAR® recognition means products meet strict energy efficiency guidelines set by the U.S. Environmental Protection Agency. ENERGY STAR certified heating and cooling equipment can enhance the comfort of your home while saving energy—which saves money on utility bills and protects our climate by reducing harmful carbon pollution and other greenhouse gases.



# VANTIX™

AVAILABLE MODELS	
Model No.	Description
RD17AZ24AJ3NA	2 ton
RD17AZ36AJ3NA	3 ton
RD17AZ48AJ3NA	4 ton
RD17AZ60AJ3NA	5 ton



The Russell by Rheem Vantix RD17AZ—when installed as part of a complete AHRI-matched, Russell by Rheem EcoNet-enabled system—operates with the easy-to-use EcoNet Smart Thermostat, which optimizes system performance and provides a new level of protection and precision comfort with features like:

- Communication with latest sensor technology
- Control of your thermostat from anywhere via the EcoNet App<sup>9</sup>
- Alerts sent directly to your phone or email



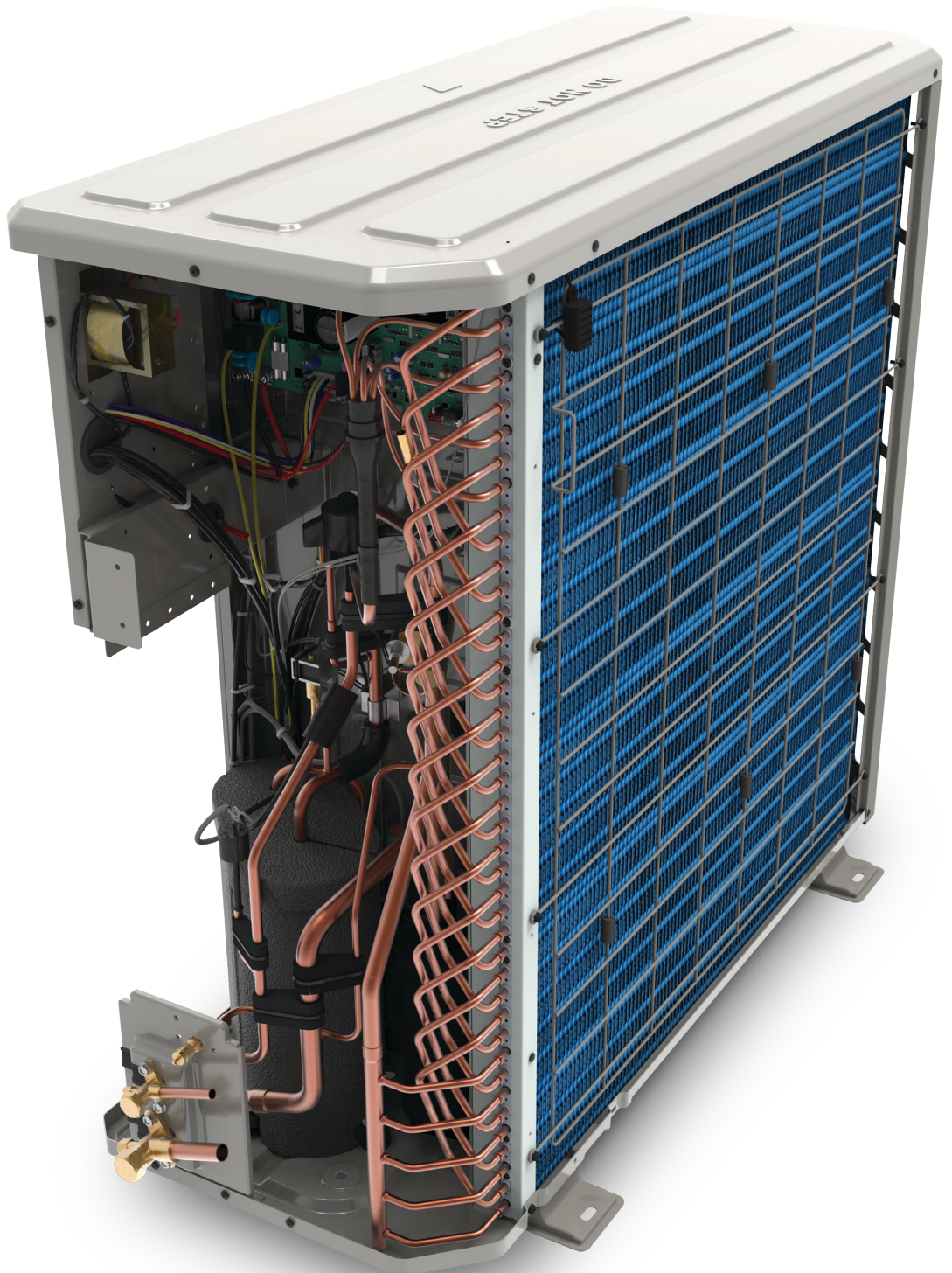
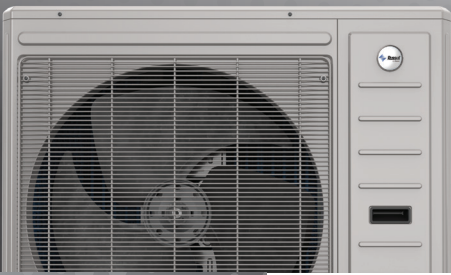
EcoNet Mobile App



EcoNet Smart Thermostat



# General Data



VANTIX™

TM



To learn more visit  
[RussellByRheem.com/Vantix](http://RussellByRheem.com/Vantix)

GENERAL DATA

Model No.	RD17AZ24AJ3NA	RD17AZ36AJ3NA	RD17AZ48AJ3NA	RD17AZ60AJ3NA
<b>Nominal Tonnage</b>	2	3	4	5
<b>Valve Connections</b>				
Liquid Line O.D. – in.	3/8	3/8	3/8	3/8
Suction Line O.D. – in.	3/4	3/4	7/8	7/8
<b>Refrigerant (R410A) Furnished oz.</b>	81	116	222	236
<b>Compressor Type</b>	7mm	7mm	7mm	7mm
<b>Outdoor Coil</b>				
Net Face Area – Outer Coil – sq. ft.	11.0	15.1	17.2	17.2
Net Face Area – Inner Coil – sq. ft.	N/A	15.1	17.2	17.2
Tube Diameter – in.	0.276	0.276	0.276	0.276
Number of Rows	1	2	3	3
Fins Per Inch	18	18	16	16
<b>Outdoor Fan</b>				
Diameter – in.	26	28	24	24
Number of Blades	3	3	3	3
Motor HP	1/2	1/2	1/3	1/3
Number of Fans	1	1	2	2
CFM	3,175	3,575	5,150	5,600
RPM	550	570	650	700
Watts	115	215	315	365
<b>Shipping Weight – lbs.</b>	205	271	354	356
<b>Operating Weight – lbs.</b>	146	200	278	280

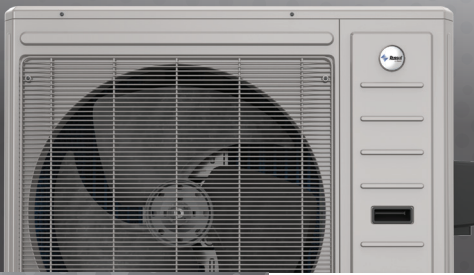
## Earning ENERGY STAR® Cold Climate Certification



Every tonnage of the RD17AZ has earned ENERGY STAR® Cold Climate certification, when installed as part of an AHRI-matched EcoNet-enabled system. To earn the designation, heat pumps must meet or exceed a series of criteria designated by the Department of Energy for cold climate operation.



# Unit Dimensions



## UNIT DIMENSIONS

Model No.	OPERATING			SHIPPING		
	Height in. (mm)	Length in. (mm)	Width in. (mm)	Height in. (mm)	Length in. (mm)	Width in. (mm)
<b>RD17AZ24AJ3NA</b>	36.61 (930)	40.16 (1,020)	16.38 (416)	43.31 (1,100)	48.43 (1,230)	22.05 (560)
<b>RD17AZ36AJ3NA</b>	46.38 (1,178)	42.01 (1,067)	19.29 (490)	53.94 (1,370)	50 (1,270)	25 (635)
<b>RD17AZ48AJ3NA</b>	57.8 (1,468)	40.16 (1,020)	16.38 (416)	65.16 (1,655)	48.43 (1,230)	22.05 (560)
<b>RD17AZ60AJ3NA</b>	57.8 (1,468)	40.16 (1,020)	16.38 (416)	65.16 (1,655)	48.43 (1,230)	22.05 (560)



**2 ton**  
RD17AZ24AJ3NA

**3 ton**  
RD17AZ36AJ3NA

**4 ton**  
RD17AZ48AJ3NA

**5 ton**  
RD17AZ60AJ3NA



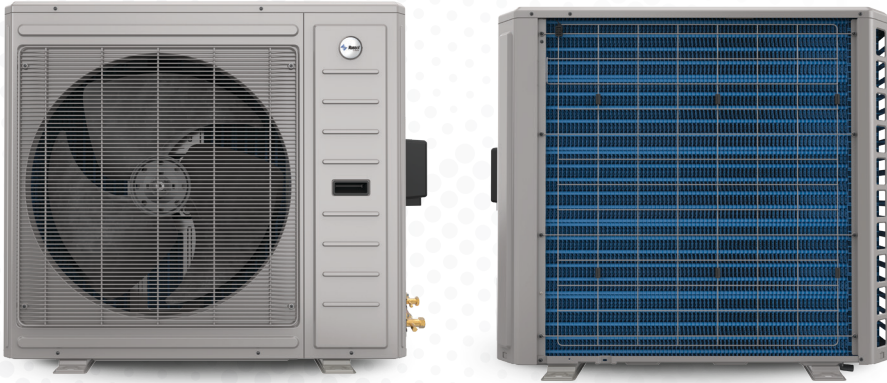
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VANTIX™

# & Available Accessories

ACCESSORIES					
Model No.		RD17AZ24AJ3NA	RD17AZ36AJ3NA	RD17AZ48AJ3NA	RD17AZ60AJ3NA
<b>Compressor Crankcase Heater</b>		44-103663-15	44-103663-15	44-103663-15	44-103663-15
<b>Basepan Heater</b>		44-109957-01	44-109958-01	44-109957-01	44-109957-01
<b>Low Ambient Control</b>		Included	Included	Included	Included
<b>Compressor Sound Cover</b>		Included	Included	Included	Included
<b>Low Pressure Control</b>		Included	Included	Included	Included
<b>High Pressure Control</b>		Included	Included	Included	Included
<b>Liquid Line Solenoid (24 VAC, 50/60 Hz)</b>	<b>Valve</b>	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC
	<b>Coil</b>	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V
<b>Liquid Line Solenoid (120/240 VAC, 50/60 Hz)</b>	<b>Valve</b>	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC
	<b>Coil</b>	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V

# VANTIX™



## FEATURES AT A GLANCE

**Cooling & Heating Efficiencies Up To:**  
19 SEER2 / 12 EER2 / 8.5 HSPF2

**Nominal Sizes:** 2 to 5 Tons

**Cooling & Heating Capacities:** 22.8 to 53  
kBTU

**EcoNet® Enabled:** Yes<sup>11</sup>

**Sound Rating<sup>6</sup>:** As low as 58 dB

**Compressor Type:** Inverter Driven,  
Variable Speed<sup>3</sup> Twin Rotary

**Condenser Coil Type:** 7mm

**ENERGY STAR® Certified Cold Climate:**  
Yes<sup>12</sup>

**Operating Range:**

**Cooling:** 50–125°F

**Heating:** -22–70°F

**Refrigerant Type:** R-410A

## FEATURE HIGHLIGHTS

**Variable Speed Twin Rotary Compressor & Inverter Drive:** Variable speed operation with EcoNet® Smart Thermostat or legacy and other thermostats<sup>3,11</sup>

**Diagnostics<sup>10</sup>:** Bluetooth technology aids in quick & easy service

**Additional Standard Features:**

- Filter Drier (Field-installed)
- Front Seating Service Valves
- Internal Pressure Relief Valve
- Powder Coated Paint
- Rust-resistant Screws
- Optimized Venturi Airflow
- External Gauge Ports
- Easy Accessibility

**Limited Warranty<sup>2</sup>:**

**Conditional Parts – 10 Years**  
(registration required—no AHRI-matched system requirement)

## Simplified Install & Service with Bluetooth Technology

Built-in Bluetooth® connectivity makes it faster and easier for your contractor to install and service your new system<sup>10</sup>. This can help lower your costs and help make your home comfortable again—fast.

## Federal Incentives Available (conditions apply)

As part of the Inflation Reduction Act of 2022, homeowners may be eligible for up to \$2,000 for qualified heat pumps as part of the Energy Efficient Home Improvement Federal Tax Credit (Tax Section 25C). The RD17AZ also meets the High Efficiency Electric Home Rebate Program criteria and may qualify for additional funds—dependent on state participation and household income.

Visit [RussellByRheem.com/Federal-Incentives](https://RussellByRheem.com/Federal-Incentives) for complete details and conditions.

## A History of Innovation



[RussellByRheem.com](https://RussellByRheem.com)

We are proudly backed by nearly 100 years in the HVAC industry. We continue to give homeowners and business owners the innovative products that meet their needs and budget to keep people comfortable day after day—just as we've done for nearly a century.



**Russell by Rheem USA**  
5600 Old Greenwood Road  
Fort Smith, Arkansas 72908



**Russell by Rheem Canada Ltd. / Ltée**  
125 Edgeware Road, Unit 1  
Brampton, Ontario L6Y 0P5

*Rheem Sales Company, Inc. manufactures the Russell by Rheem brand of residential heating & cooling products. In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.*

<sup>1</sup>Coil only – with TXV, with minimum alterations. <sup>2</sup>For complete details of the limited and conditional warranties, including applicable terms and conditions, contact your local Contractor or go to [RussellByRheem.com](https://RussellByRheem.com) for a copy of the product warranty certificate; warranty applies to a heat pump only or system installation; Does not require the heat pump to be part of a properly matched system as specified by the Manufacturer and the Air Conditioning Heating & Refrigeration Institute (AHRI). <sup>3</sup>When installed with the EcoNet Smart Thermostat or with legacy and other thermostats when the utility 1 and 2 jumpers are installed. Features two-stage (70% and 100% capacity) operation when installed with legacy and other thermostats when the utility 1 and 2 jumpers are not installed; The 2-ton model features a single rotary compressor. <sup>4</sup>Residential Building Electrification in CA: Consumer economics, greenhouse gases and grid impacts, April 2019. <sup>5</sup>Rheem's goal is to release by 2025 a line of heating, cooling, and water heating products that reduce greenhouse gas emissions by 50% as compared to products available in 2019. Reduction calculations will be based on the products' use phase emissions only and utilize average emission factors to account for variability in electricity grids. Reduction calculations will not consider upstream or manufacturing impacts, but use phase emissions account for the majority of the products' impact. At this time, these figures have not been independently verified by a third party. <sup>6</sup>Based on Internal R&D Testing, 2023. Sound levels are also dependent on proper installation and location of outdoor product. <sup>7</sup>When installed as part of a complete AHRI-matched Russell by Rheem EcoNet-enabled system; Does not apply to coil-only matched systems. <sup>8</sup>Valid for qualifying AHRI-matched Russell by Rheem systems; Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your contractor for details or visit [EnergyStar.gov](https://EnergyStar.gov). <sup>9</sup>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 setup. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. <sup>10</sup>When installed as part of a complete Russell by Rheem system where both the outdoor and indoor components feature Bluetooth technology. <sup>11</sup>When installed as part of a complete AHRI-matched Russell by Rheem EcoNet-enabled system. <sup>12</sup>70% heating capacity at 5°F on all tonnages when part of a qualifying AHRI-matched Russell by Rheem EcoNet-enabled system.



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Printed in the USA | 02/24 | QG | Form No. MRR-3126 | Rev. 0