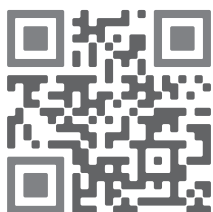


# VANTIX<sup>®</sup>



A I R H A N D L E R G U I D E



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

## Simple, **dependable comfort**

Keep effortlessly comfortable all year long with the Russell<sup>®</sup> by Rheem Vantix<sup>®</sup> Line of Air Handlers. Offering high efficiency and quiet operation, Russell by Rheem Vantix Air Handlers ensure dependable comfort and savings for every season.



# Performance & Quality You Can Count On



## PEACE-OF-MIND PERFORMANCE

Relax, you're covered by some of the best warranties in the industry<sup>1</sup>—up to 10 Year Limited Parts<sup>2</sup>.



## QUIET OPERATION

Sound levels range from quietest to quiet with insulated cabinets and truly variable speed airflow technology<sup>3</sup>—giving you one of the quieter air handler lines available<sup>4</sup>.



## OPTIMAL COMFORT

Modulating<sup>5</sup> (between 40% and 100% of capacity) or two-stage (high, low) heating and cooling operation<sup>6</sup>, along with variable speed motor technology<sup>3</sup>, ensures a steady stream of just-right airflow to maintain your comfort level preference while providing superior humidity control.



## Designing for Sustainability with Low GWP

For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in heating and cooling systems. This new requirement will result in a 78%<sup>9</sup> lower GWP than previous-generation refrigerants—with only minimal changes to system installation. For us, this is another step toward our continued sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort.



EcoNet<sup>®</sup>



The SHMVY and SH2VY Russell<sup>®</sup> by Rheem Vantix<sup>®</sup> Line Air Handlers operate 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>7</sup>
- Alerts sent directly to your phone or email



## Simplified Install & Service with Bluetooth Technology

Built-in Bluetooth<sup>®</sup> connectivity<sup>8</sup> makes it faster and easier for your contractor to install and service your new system. This can help lower your costs and help make your home comfortable again—fast.



Russell® by Rheem  
Vantix® Line

## Air Handlers



|                                           | SHMVY                                                                                                                                                                                     | SH2VY                                                                                                                                                                                     | SH2CY                                                |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>Motor</b>                              | Constant CFM                                                                                                                                                                              | Constant CFM                                                                                                                                                                              | Constant Torque                                      |
| <b>Airflow Stages</b>                     | Modulating                                                                                                                                                                                | Two-Stage                                                                                                                                                                                 | Two-Stage                                            |
| <b>Expansion Device</b>                   | Electronic Expansion Valve (EEV)                                                                                                                                                          | Thermal Expansion Valve (TXV)                                                                                                                                                             | Thermal Expansion Valve (TXV)                        |
| <b>Efficiencies</b>                       | 21 SEER2                                                                                                                                                                                  | 20 SEER2                                                                                                                                                                                  | 19 SEER2                                             |
| <b>Sound Ranking<sup>4</sup></b>          | Quietest                                                                                                                                                                                  | Quieter                                                                                                                                                                                   | Quiet                                                |
| <b>EcoNet Enabled</b>                     | Yes                                                                                                                                                                                       | Yes                                                                                                                                                                                       | No                                                   |
| <b>Bluetooth Connectivity<sup>8</sup></b> | Yes                                                                                                                                                                                       | Yes                                                                                                                                                                                       | No                                                   |
| <b>Feature Highlights</b>                 | Patented Refrigerant Detection System<br>—<br>Russell by Rheem Contractor and EcoNet Apps <sup>7</sup> , built-in EcoNet and Bluetooth technology allows for easy install and diagnostics | Patented Refrigerant Detection System<br>—<br>Russell by Rheem Contractor and EcoNet Apps <sup>7</sup> , built-in EcoNet and Bluetooth technology allows for easy install and diagnostics | Patented Refrigerant Detection System                |
| <b>Configuration</b>                      | 4-Way Convertible                                                                                                                                                                         | 4-Way Convertible                                                                                                                                                                         | 4-Way Convertible                                    |
| <b>Height</b>                             | 42.5–57 in. (varying sizes)                                                                                                                                                               | 42.5–57 in. (varying sizes)                                                                                                                                                               | 42.5–57 in. (varying sizes)                          |
| <b>Compatible Thermostat</b>              | EcoNet Smart Thermostat<br>—<br>Two-Stage 24V (Emergency Only)                                                                                                                            | EcoNet Smart Thermostat<br>—<br>Two-Stage 24V                                                                                                                                             | Two-Stage 24V<br>—<br>Single-Stage 24V               |
| <b>Limited Warranty<sup>1</sup></b>       | Parts – 10 Years                                                                                                                                                                          | Conditional Parts – 10 Years (registration required)                                                                                                                                      | Conditional Parts – 10 Years (registration required) |

|                                           | SH1PY                                                | RF2TY                                                | RF1PY                                                | SB2CY                                                |
|-------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| <b>Motor</b>                              | PSC                                                  | Constant Torque                                      | PSC                                                  | Constant Torque                                      |
| <b>Airflow Stages</b>                     | Single-Stage                                         | Two-Stage                                            | Single-Stage                                         | Two-Stage                                            |
| <b>Expansion Device</b>                   | Thermal Expansion Valve (TXV)                        | Thermal Expansion Valve (TXV)                        | Thermal Expansion Valve (TXV)                        | Thermal Expansion Valve (TXV)                        |
| <b>Efficiencies</b>                       | 13.4–15.2 SEER2                                      | 13.4–16 SEER2                                        | 13.4–15.2 SEER2                                      | 13.4–16 SEER2                                        |
| <b>Sound Ranking<sup>4</sup></b>          | Quiet                                                | Quiet                                                | Quiet                                                | Quiet                                                |
| <b>EcoNet Enabled</b>                     | No                                                   | No                                                   | No                                                   | No                                                   |
| <b>Bluetooth Connectivity<sup>8</sup></b> | No                                                   | No                                                   | No                                                   | No                                                   |
| <b>Feature Highlights</b>                 | Patented Refrigerant Detection System                | Patented Refrigerant Detection System                | Patented Refrigerant Detection System                | Patented Refrigerant Detection System                |
| <b>Configuration</b>                      | 4-Way Convertible                                    | Front / Bottom                                       | Front / Bottom                                       | 4-Way Convertible                                    |
| <b>Height</b>                             | 42.5–55.5 in. (varying sizes)                        | 36 in. (all sizes)                                   | 36 in. (all sizes)                                   | 35 in. (all sizes)                                   |
| <b>Compatible Thermostat</b>              | Two-Stage 24V<br>—<br>Single-Stage 24V               | Two-Stage 24V<br>—<br>Single-Stage 24V               | Two-Stage 24V<br>—<br>Single-Stage 24V               | Two-Stage 24V<br>—<br>Single-Stage 24V               |
| <b>Limited Warranty<sup>1</sup></b>       | Conditional Parts – 10 Years (registration required) | Conditional Parts – 10 Years (registration required) | Conditional Parts – 10 Years (registration required) | Conditional Parts – 10 Years (registration required) |



## A History of Innovation

As a proud member of the Rheem® Family of Brands, 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 over a century.



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

*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>Registration is required for the conditional parts and unit replacement warranty (if applicable). For complete details of the limited and conditional warranties, including applicable terms and conditions, contact your local Contractor or go to [RussellByRheem.com](http://RussellByRheem.com) for a copy of the product warranty certificate. <sup>2</sup>Refer to the chart for specific warranty terms by product.

<sup>3</sup>Applies to the SHMVY and SH2VY models. <sup>4</sup>Based on manufacturer's product offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on unit location and installation. <sup>5</sup>Applies to the SHMVY model. <sup>6</sup>Applies to the SH2VY, SH2CY, RF2TY and SB2CY models. <sup>7</sup>Wi-Fi 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 Wi-Fi set up. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. <sup>8</sup>Applies to the SHMVY and SH2VY models. <sup>9</sup>When comparing the GWP of R-454B to R-410A refrigerant.

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