

VANTIX®

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



RussellByRheem.com/Vantix

Simple, **dependable comfort**

Keep effortlessly comfortable all year long with the Russell® by Rheem Vantix® 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 industry¹—up to 10 Year Limited Parts².



QUIET OPERATION

Sound levels range from quietest to quiet with insulated cabinets and truly variable speed airflow technology³—giving you one of the quieter air handler lines available⁴.



OPTIMAL COMFORT

Modulating⁵ (between 40% and 100% of capacity) or two-stage (high, low) heating and cooling operation⁶, along with variable speed motor technology³, 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%⁹ 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[®]



The SHMVY and SH2VY Russell[®] by Rheem Vantix[®] 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 App⁷
- Alerts sent directly to your phone or email



Simplified Install & Service with Bluetooth Technology

Built-in Bluetooth[®] connectivity⁸ 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	SH2TY
Motor	Constant CFM	Constant CFM	Constant Torque
Airflow Stages	Modulating	Two-Stage	Two-Stage
Expansion Device	Electronic Expansion Valve (EEV)	Thermal Expansion Valve (TXV)	Thermal Expansion Valve (TXV)
Efficiencies	21 SEER2	20 SEER2	19 SEER2
Sound Ranking⁴	Quietest	Quieter	Quiet
EcoNet Enabled	Yes	Yes	No
Bluetooth Connectivity⁸	Yes	Yes	No
Feature Highlights	Patented Refrigerant Detection System — Russell by Rheem Contractor and EcoNet Apps ⁷ , built-in EcoNet and Bluetooth technology allows for easy install and diagnostics	Patented Refrigerant Detection System — Russell by Rheem Contractor and EcoNet Apps ⁷ , built-in EcoNet and Bluetooth technology allows for easy install and diagnostics	Patented Refrigerant Detection System
Configuration	4-Way Convertible	4-Way Convertible	4-Way Convertible
Height	42.5–57 in. (varying sizes)	42.5–57 in. (varying sizes)	42.5–57 in. (varying sizes)
Compatible Thermostat	EcoNet Smart Thermostat — Two-Stage 24V (Emergency Only)	EcoNet Smart Thermostat — Two-Stage 24V	Two-Stage 24V — Single-Stage 24V
Limited Warranty¹	Parts – 10 Years	Conditional Parts – 10 Years (registration required)	Conditional Parts – 10 Years (registration required)

	SH1PY	RF2TY	RF1PY	SB2TY
Motor	PSC	Constant Torque	PSC	Constant Torque
Airflow Stages	Single-Stage	Two-Stage	Single-Stage	Two-Stage
Expansion Device	Thermal Expansion Valve (TXV)	Thermal Expansion Valve (TXV)	Thermal Expansion Valve (TXV)	Thermal Expansion Valve (TXV)
Efficiencies	13.4–15.2 SEER2	13.4–16 SEER2	13.4–15.2 SEER2	13.4–16 SEER2
Sound Ranking⁴	Quiet	Quiet	Quiet	Quiet
EcoNet Enabled	No	No	No	No
Bluetooth Connectivity⁸	No	No	No	No
Feature Highlights	Patented Refrigerant Detection System	Patented Refrigerant Detection System	Patented Refrigerant Detection System	Patented Refrigerant Detection System
Configuration	4-Way Convertible	Front / Bottom	Front / Bottom	4-Way Convertible
Height	42.5–55.5 in. (varying sizes)	36 in. (all sizes)	36 in. (all sizes)	35 in. (all sizes)
Compatible Thermostat	Two-Stage 24V — Single-Stage 24V	Two-Stage 24V — Single-Stage 24V	Two-Stage 24V — Single-Stage 24V	Two-Stage 24V — Single-Stage 24V
Limited Warranty¹	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
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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.

¹Registration 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 for a copy of the product warranty certificate. ²Refer to the chart for specific warranty terms by product.

³Applies to the SHMVY and SH2VY models. ⁴Based 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. ⁵Applies to the SHMVY model. ⁶Applies to the SH2VY, SH2TY, RF2TY and SB2TY models. ⁷Wi-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. ⁸Applies to the SHMVY and SH2VY models. ⁹When comparing the GWP of R-454B to R-410A refrigerant.

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