SEASON AFTER SEASON OF ENERGY-SAVING







Sure Comfort® Vantix® Line

Expertly engineered to deliver high efficiencies year-round, the Sure Comfort Vantix Line RD16AY Side-Discharge Heat Pump features a compact footprint, making it the perfect choice when space is at a premium.

SureComfort.com/Vantix







Comfort & Effici

Innovation You Can Count On

Patented industry-first features and advanced design make the Sure Comfort Vantix RD16AY a smart choice.



Peace-Of-Mind Performance

Relax, you're covered by one of the best warranties in the industry¹—10 Year Conditional Parts when installed as a heat pump only or as part of a system.



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.⁴ A win for all of us.



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.



Space-Saver Solution

Part of our Sound & Space Constraint Solution, the RD16AY Side-Discharge Heat Pump is the ideal product for when installation locations are cramped. It features a small footprint with size options as low as 31.8" tall and 19.8" wide. This unit was designed to deliver whole-home comfort quietly and efficiently—further proof that good (and quiet) things come in small packages.



Genuine Comfort

Inverter driven, variable speed, twin rotary compressor technology features fully variable cooling and heating operation between 45% and 100% of capacity² to continuously meet your ever-changing needs. You'll enjoy exact temperature and advanced humidity control that combine to exceed your optimal comfort expectations.



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.



Reduced Emissions

Households generate 72%³ of greenhouse gas emissions, so switching to a heat pump can make a big difference for the environment—today.



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



- Alarm Clock

approach and innovative compressor and drive technologies ensure that as efficiency goes up, sound levels stay low—as low as 50 dBA.⁵



To learn more visit **SureComfort.com/Vantix**

ency Made Simple



Comfortably and Sustainably

features, but the RD16AY has earned our Sustainability



Among Heat Pumps This One's A Star⁷

heating and cooling equipment can enhance which saves money on utility bills and protects pollution and other greenhouse gases.





AVAILABLE MODELS				
Model No.	Description			
RD16AY24AJVCA	2 ton			
RD16AY36AJVCA	3 ton			
RD16AY48AJVCA	4 ton			
RD16AY60AJVCA	5 ton			





The Sure Comfort Vantix RD16AY—when installed as part of a complete AHRI-matched, Sure Comfort EcoNet-enabled systemoperates 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 App⁸











· Alerts sent directly to your phone or email

EcoNet Mobile App



General Data





SureComfort.com/Vantix



GENERAL DATA					
Model No.	RD16AY24AJVCA	RD16AY36AJVCA	RD16AY48AJVCA	RD16AY60AJVCA	
Nominal Tonnage	2	3	4	5	
Valve Connections					
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	
Refrigerant (R-454B) Furnished oz.	76	141	194	222	
Coil Type	7mm	7mm	7mm	7mm	
Outdoor Coil					
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	
Outdoor Fan					
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	2,820	4,350	5,400	
RPM	550	450	550	675	
Watts	115	106	191	327	
Shipping Weight – lbs.	205	272	347	354	
Operating Weight – lbs.	177	230	296	306	





Unit Dimensions

UNIT DIMENSIONS						
	OPERATING			SHIPPING		
Model No.	Height in. (mm)	Length in. (mm)	Width in. (mm)	Height in. (mm)	Length in. (mm)	Width in. (mm)
RD16AY24AJVCA	31.8 (80.4)	40.4 (102.6)	19.8 (50.3)	38 (96.4)	48.43 (123)	22.05 (56)
RD16AY36AJVCA	31.8 (80.4)	40.4 (102.6)	19.8 (50.3)	38 (96.4)	48.43 (123)	22.05 (56)
RD16AY48AJVCA	36.6 (93)	40.4 (102.6)	19.8 (50.3)	43.3 (110)	48.43 (123)	22.05 (56)
RD16AY60AJVCA	46.4 (117.8)	42.3 (107.4)	22.8 (57.8)	53.94 (137)	50 (127)	25 (63.5)



2 ton RD16AY24AJVCA



3 ton RD16AY36AJVCA



4 ton RD16AY48AJVCA



5 ton RD16AY60AJVCA



To learn more visit SureComfort.com/Vantix

& Available Accessories

ACCESSORIES					
Model No.		RD16AY24AJVCA	RD16AY36AJVCA	RD16AY48AJVCA	RD16AY60AJVCA
Compressor Crankcase Heater		44-103663-15	44-103663-15	44-103663-15	44-103663-15
Base Pan Heater Connector Kit*		45-110492-01	45-110492-01	45-110492-01	45-110492-01
Low Ambient Control		Included	Included	Included	Included
Compressor Sound Cover		Included	Included	Included	Included
Low Pressure Control		Included	Included	Included	Included
High Pressure Control		Included	Included	Included	Included
Liquid Line Solenoid (24 VAC, 50/60 Hz)	Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC
	Coil	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V
Liquid Line Solenoid (120/240 VAC, 50/60 Hz)	Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC
	Coil	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V

^{*}Required for heating element commissioning.

VANTIX





Simplified Install & Service with Bluetooth Technology

Built-in Bluetooth® connectivity makes it faster and easier for your contractor to install and service your new system9. This can help lower your costs and help make your home comfortable again—fast.



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%¹⁰ 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.

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 RD16AY also meets the High Efficiency Electric Home Rebate Program criteria and may qualify for additional funds—dependent on state participation and household income.

Visit SureComfort.com/Federal-Incentives for complete details and conditions.

FEATURES AT A GLANCE

Cooling & Heating Efficiencies Up To: 17 SEER2 / 10.5 EER2 / 8.5 HSPE2

Nominal Sizes: 2 to 5 Tons

Cooling & Heating Capacities: 22.8 to 55.5 kBTU

EcoNet® Enabled: Yes 11

Sound Rating⁵: As low as 50 dBA

Compressor Type: Inverter Driven, Variable Speed² Twin Rotary

Condenser Coil Type: 7mm

Operating Range: Cooling: 50-125°F Heating: -22-70°F Refrigerant Type: R-454B

FEATURE HIGHLIGHTS

Variable Speed Twin Rotary Compressor & Inverter Drive: Variable speed operation with EcoNet® Smart Thermostat or legacy and other thermostats^{2,11}

Diagnostics9: Bluetooth technology aids in quick & easy service

Refrigerant Detection System™12:

Integrated, patented design providing system protection and homeowner peace-of-mind with low GWP refrigerant monitoring

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
- Base Pan Heating Element (Commissioning Kit Required)

Limited Warranty¹:

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

A History of Innovation



SureComfort.com

We are proudly backed by over 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 over a century.



Sure Comfort USA 5600 Old Greenwood Road Fort Smith, Arkansas 72908



Sure Comfort Canada Ltd. / Ltée 125 Edgeware Road, Unit 1 Brampton, Ontario L6Y 0P5

Rheem Sales Company, Inc. manufactures the Sure Comfort 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.











© 2025 Rheem Manufacturing Company. Sure Comfort trademarks owned by Rheem Manufacturing Company.