

# SAVE SPACE & **MAXIMIZE COMFORT**

Side-Discharge  
Heat Pump System  
(Cold Climate Models Only)

Air

**RD16AZ\*\*\*H/  
RHMVZ\*\*\*N**



## ENDEAVOR®

### Ruud® Endeavor® Line *Achiever Plus®* Series

Part of our **Sound & Space Constraint Solution**, the ENERGY STAR® certified Ruud Endeavor Line *Achiever Plus* Series Side-Discharge Heat Pump and Multi-Position Air Handler provide quiet system options for when space is at a premium—without sacrificing the technology and energy-saving performance you've come to expect.

[Ruud.com/Endeavor](http://Ruud.com/Endeavor)



RELY ON RUUD.™





# A Sound & Space Constraint Solution

## Innovation You Can Count On

Patented industry-first features and 360+1 design make the Ruud Endeavor RD16AZ\*\*\*\*H and RHMVZ\*\*\*\*\*N system a smart choice.



### Peace-Of-Mind Performance

Relax, you're covered by one of the best warranties in the industry<sup>1</sup>—10 Year Parts.



### Exact Comfort

The variable speed, inverter technology on the Ruud® Achiever Plus® Series RD16AZ\*\*\*\*H Heat Pump provides just the right amount of heating and cooling under all conditions for dependable comfort and energy savings year-round.

The Ruud RHMVZ\*\*\*\*N Air Handler features a high-efficiency, constant CFM, variable-speed motor with modulating airflow—the heart of the air handler. When the unit is matched with the RD16AZ\*\*\*\*H Heat Pump, it can run at speeds that match the requirements of the home. This provides even temperatures so there is no need to continuously adjust your thermostat, reducing your energy usage.



### Humidity Control

The air handler manages humidity levels in the home, improving comfort and helping you save money on energy bills. The factory-installed variable speed blower motor within the air handler cabinet is a key component for your system. Superior humidity control, improved system performance and the high-quality standards used in manufacturing ensure long-lasting, dependable performance.



### Space-Saving Design

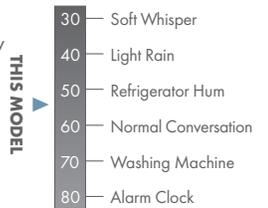
Part of our Sound & Space Constraint Solution, the Achiever Plus Side-Discharge Heat Pump & Multi-Position Air Handler are the ideal system for when installation locations are cramped or require noise control—or both. This system was designed to deliver whole-home comfort quietly and efficiently. It's further proof that good (and quiet) things come in small packages.



### Quiet Operation Inside & Out

The Ruud RHMVZ\*\*\*\*N Air Handler is engineered with a sturdy steel cabinet with 1" of foil-faced insulation, offering excellent thermal and sound insulation to keep your indoor environment nice and quiet. By adjusting to comfort requirements and running at lower speeds throughout the day, our RD16AZ\*\*\*\*H Heat Pump streamlines airflow and reduces vibration, allowing for a much quieter outdoor operation than conventional outdoor units.

#### SOUND RATING<sup>2</sup>



### Among Heat Pump Systems, This One's A Star<sup>4</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.

ENDEAVOR



To learn more visit [Ruud.com/Endeavor](http://Ruud.com/Endeavor)



We Thought of Everything... & Then Some

We evaluate every detail of a product from top to bottom, inside and out and every angle in between. That's 360+1. And that's why you can count on this heat pump and air handler to bring you and your family years of efficient and dependable comfort.



TESTED. TRUSTED. TOUGH.

From the smallest part to complete comfort systems, we engineer quality into every piece of equipment to be sure it's tough enough to deliver the maximum performance you count on day after day, year after year. That reliability is what makes Ruud different—and better.

Indoor unit model			RHVMV3021SNAUNJ	RHVMV3621MNAUAJ	RHVMV4821SNAUAJ	
Outdoor unit model			RD16AZ30AJHUA	RD16AZ36AJHUA	RD16AZ48AJHUA	
Power supply			Single-phase 208 / 230V 60Hz			
Available voltage range			187-253V			
Static pressure range			0.1-1.0 inWG			
Cooling character	Rated	Capacity	BTU/HR	30,000	36,000	45,500
		Power consumption	kW	2.97	3.18	5.56
		EER2	BTU/hW	11.70	11.00	8.80
	SEER2		BTU/hW	18.80	17.10	16.60
	Operating current		A	11.00	13.40	22.90
	Max. operating current		A	19.80	23.90	28.90
	Capacity range		BTU/HR	9,600-35,000	13,000-39,000	13,000-50,000
	Noise level	Indoor unit (H/M/L/Q)	dB(A)	42 / 37 / 33 / 28	41 / 30 / 27 / 24	48 / 36 / 31 / 25
		Outdoor unit	dB(A)	52	52	54
	Heating character	Rated	Capacity	BTU/HR	32,000	38,000
Power consumption			kW	3.02	3.82	5.35
COP2			BTU/hW	12.40	11.00	12.10
HSPF2		BTU/hW	9.70	10.40	10.00	
Operating current		A	12.10	13.20	18.80	
Max. operating current		A	26.80	32.90	35.90	
Capacity range		BTU/HR	9,200-39,000	15,000-52,000	15,000-55,000	
Noise level		Indoor unit (H/M/L/Q)	dB(A)	39 / 36 / 32 / 25	40 / 35 / 28 / 26	47 / 37 / 32 / 29
		Outdoor unit	dB(A)	53	53	54
Indoor unit		Net dimensions	Height	in.	42-1/2	57
	mm			1,080	1,448	
	Width		in.	21	21	
			mm	533	533	
	Depth	in.	21-11/16	21-11/16		
		mm	551	551		
	Gross dimensions	Height	in.	42-3/4	57-1/8	
			mm	1,086	1,451	
		Width	in.	24	23	
			mm	610	584	
	Depth	in.	25-5/16	26-1/2		
		mm	643	673		
	Weight	Net	lbs.	104	132	
kg			47	60		
Gross		lbs.	116	146		
		kg	52.5	66		
Stack		boxes	4	3		
Outdoor unit	Net dimensions	Height	in.	39-5/16	52-1/2	
			mm	998	1,334	
		Width	in.	38-3/16	38-3/16	
			mm	970	970	
	Depth	in.	14-9/16	14-9/16		
		mm	370	370		
	Gross dimensions	Height	in.	45-3/4	59-5/16	
			mm	1,162	1,506	
		Width	in.	41-7/8	41-14/16	
			mm	1,064	1,064	
	Depth	in.	18-13/16	18-13/16		
		mm	478	478		
	Weight	Net	lbs.	187	236	
			kg	95	107	
		Gross	lbs.	209	260	
			kg	95	118	
Stack		boxes	5	3		
Refrigerant	Type		R410A			
	Charge	lbs. oz.	7 lbs. 8 oz.	10 lbs. 9 oz.		
		kg	2.10	4.80		
Installation	Connection pipe	Connection method		Flare		
		Liquid pipe diameter	in.	3/8		
			mm	9.52		
		Gas pipe diameter	in.	5/8		
mm	15.88					

# ENDEAVOR<sup>®</sup>



## FEATURES AT A GLANCE

Cooling & Heating Efficiencies Up To:  
18.8 SEER2 / 11.7 EER2 / 10.4 HSPF2

Outdoor Sound Level<sup>2</sup>:  
As low as 53 dB

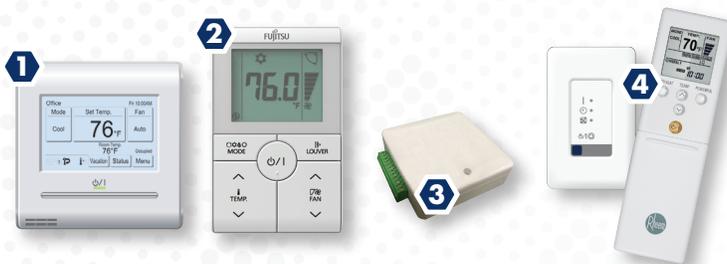
Heat Pump Compressor:  
Variable-speed, inverter-driven  
rotary compressor

Air Handler Motor:  
Constant CFM variable speed  
modulating airflow

Air Handler Evaporator Coil:  
All-aluminum

Optional Electric Heat<sup>3</sup>:  
Thermostat (RXRSRY or RXRNRUZ<sup>\*</sup>)  
required as a tool to configure  
electric heat

Limited Warranty<sup>1</sup>:  
Parts - 10-year



## Optional Accessories

Type	Accessory Name	Model Number
Thermostat	1 Wired Controller	RXRNRUZ <sup>*3</sup>
	2 Simple Controller	RXRSRY <sup>3</sup>
Converter	3 Thermostat Converter	RXTTRX
Wireless Remote Controller	4 IR Receiver Kit with Wireless Remote Controller	RXLBTUM

## Nearly 100 Years of Innovation



Ruud.com

As the only brand bringing innovative air and water solutions to homes and businesses around the world, Ruud continues to deliver advanced comfort, savings and experiences to our customers—just as we've done for nearly 100 years.



**Ruud USA**  
5600 Old Greenwood Road  
Fort Smith, Arkansas 72908



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

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

<sup>1</sup>For complete details of the limited and conditional warranties, including applicable terms and conditions, contact your local Contractor or go to Ruud.com for a copy of the product warranty certificate. <sup>2</sup>Based on Internal R&D Testing, May 2022. Sound levels are also dependent on proper installation and location of outdoor product. <sup>3</sup>Thermostat (RXRSRY or RXRNRUZ<sup>\*</sup>) required as a tool to configure electric heat and other function codes. <sup>4</sup>Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your contractor for details or visit EnergyStar.gov.

