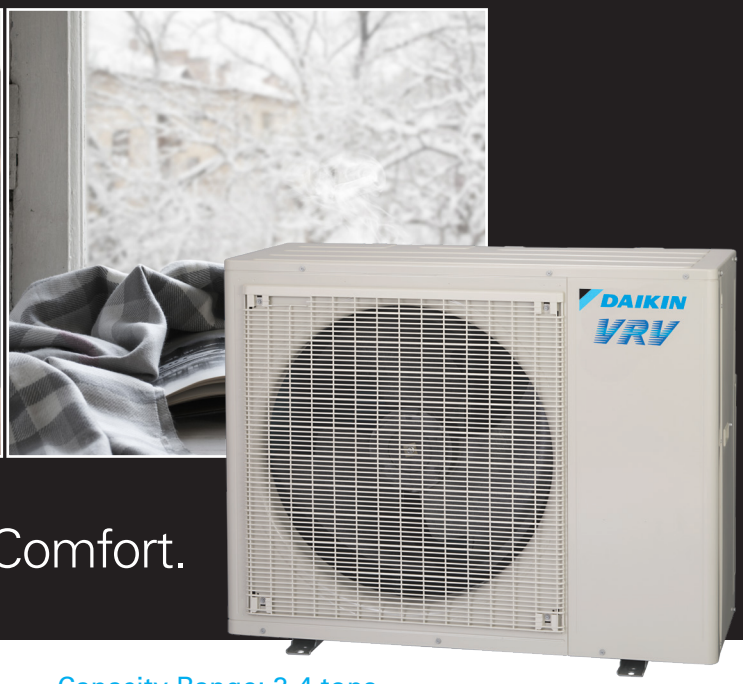
VRV-S AURORA







Embrace the Chill, Elevate the Comfort.

The Daikin *VRV-S AURORA* expands on the product offering as Daikin's first cold climate *VRV* single phase lineup. The *VRV-S AURORA* features a sleek, compact design while providing powerful heating performance at low ambient temperatures. Leveraging the engineering design opportunities of R-32, the new Daikin *VRV-S AURORA* provides an expansion of the product offering for cold climate applications as well as several useful features and benefits

Engineered for Cold Climate and Heating Dominant Applications

VRV-S AURORA systems can simplify design and optimize cost by delivering heating capacities down to -13°F. The increased heating capacities at lower ambient temperature, compared to *VRV-S* systems, provide an alternative solution to help minimize the need for backup heat or conditioned mechanical rooms to deliver reliable heating operations in cold climates.

Low GWP R-32 Refrigerant:

Aligning with Daikin's goals of decarbonization, sustainability, and advancement towards clean energy, Daikin *VRV-S AURORA* models feature Low GWP R-32 refrigerant. Widely used and proven around the globe, easily available, efficient, and affordable, R-32 is an ideal choice to replace R-410A. Additionally, R-32 is a single component refrigerant offering simplicity and flexibility in charging and reclaiming (compared to blended refrigerants).

Capacity Range: 3-4 tons

Applications:

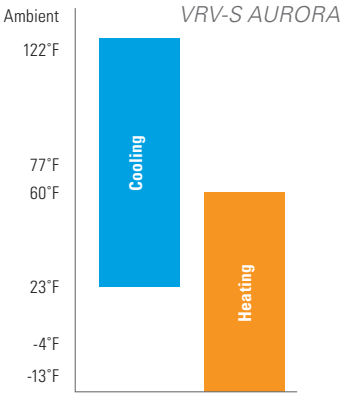


Features. Benefits, and Improvements:

- Delivers heating down to -13°F and cooling down to 23°F
- 3 ton and 4 ton offering
- Compact, space-saving single fan chassis design for both 3 and 4 ton
- Same footprint and dimensions as the standard VRV-S product offering simplicity in design and installation
- Higher heating capacities at 47°F, 17°F and 5°F as compared to VRV-S
- Compact height of only 34-1/4" to support a range of applications
- Efficient operation and year-round energy savings through Smart Variable Refrigerant Temperature (VRT) technology
- Ease of retrofit of existing R-410A installation with the ability to re-use larger diameter refrigerant pipes via field setting
- Long pipe lengths with vertical separation up to 164 ft. and total pipe length up to 984 ft.
- Easier serviceability and field setting adjustment through new 7 segment display
- Optional base pan heater to defrost base pan

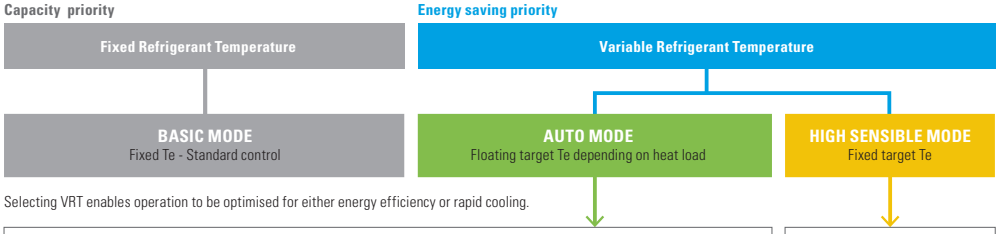
[1] Conditions/rules apply. Refer to the Installation and Engineering Manual for details.

Variable Refrigerant Temperature

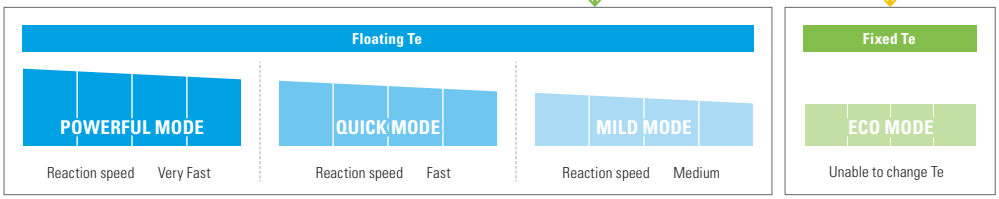


VRT mode control selection to match user preferences

VRT mode is efficiency focused while Basic mode is capacity focused.



Selecting VRT enables operation to be optimised for either energy efficiency or rapid cooling.



- Can boost capacity above 100% if needed.
  The refrigerant temperature can go lower in cooling than the set minimum.
- Gives priority to very fast reaction speed.
  The refrigerant temperature goes down fast to keep the room setpoint stable.
- Gives priority to fast reaction speed.
  The refrigerant temperature goes down fast to keep the room setpoint stable.
- Gives priority to efficiency.
  The refrigerant temperature goes down gradually giving priority to the efficiency of the system instead of the reaction speed.

VRV air-cooled system that is designed to deliver powerful heating performance at low ambient conditions

UP TO **100%** HEATING CAPACITY AT **17°F** OUTDOOR AMBIENT

UP TO **88%** HEATING CAPACITY AT **5°F** OUTDOOR AMBIENT

UP TO **80%** HEATING CAPACITY AT **0°F** OUTDOOR AMBIENT

DAIKIN *VRV-S AURORA SERIES*				
	Model Name		RXLA36AAVJU	RXLA48AAVJU
STYLE	ODU Style	Fan Type	Single Fan	
PERFORMANCE	Nominal Cooling Capacity	BTU/H	36,000	48,000
	Nominal Heating Capacity	BTU/H	40,000	52,000
	Operation Range Cooling	°F DB	23 to 122	
	Operation Range Heating	°F WB	-13 to 60	
	Power	V/P/HZ	208-230/1/60	
	Sound Pressure Level @ 3ft	dB(A)	56	56
REFRIGERANT PIPING	Refrigerant		R-32	
	Refrigerant Quantity	lbs.	7.5	7.5
	Liquid Pipe (Main Line)	in.	3/8 Flare	
	Suction Gas Pipe (Main Line)	in.	5/8 Flare	
	Vertical Drop	ft.	164	
	Vertical Rise	ft.	130	
	Maximum vertical pipe length between IDU	ft.	49	
	Actual Pipe Length (Equivalent Length)	ft.	394	
	Total Piping Length	ft.	984	
CONNECTION RATIO	Connectable Indoor Unit Ratio	%	50-130	
	Number of Indoor Units	Qty	6	8
UNIT	Outdoor Unit Size	(HxWxD)	34-1/4 x 43-5/16 x 18-1/8	
	Weight	lbs.	234	
FAN	Airflow	CFM	3000	
	Fan Motor Output and Quantity	kW	0.234	
ELECTRICAL	Maximum Over Current Protection (MOP)	A	25	35
	Minimum Circuit Amps (MCA)	A	24.8	34.6
COMPRESSOR	Compressor Type	Type	Daikin Swing	Daikin Swing

Daikin *VRV-S AURORA* outdoor heat pumps are compatible only with the R-32 indoor units. R-410A-based indoor units are not compatible with the new Daikin *VRV-S AURORA* heat pump.

Additional information

Before purchasing this appliance, read important information about its estimated annual energy consumption, yearly operating cost, or energy efficiency rating that is available from your retailer. Visit **www.daikincomfort.com or www.daikinac.com to learn more.**

DAIKIN

R32 Compatible with R-32 refrigerant

Our continuing commitment to quality products may mean a change in specifications without notice.

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