



## Commercial. Renovation. New construction.

Daikin's VRV IV systems integrate advanced technology to provide comfort control with high energy efficiency and reliability. VRV IV provides heating and cooling solutions for multi-family residential to large commercial applications. Daikin VRV IV is the first variable refrigerant flow (VRF) system assembled in North America.

### Main features and benefits:

- Total comfort solution for heating, cooling, ventilation and controls.
- Redesigned and optimized for low total Life Cycle Cost (LCC).
- Available in large capacity single modules up to 14 tons and systems up to 34 tons allowing for a more flexible system design.
- Year-round comfort and energy efficiency delivered by combining VRV and VRT technologies.
- High energy efficiency with IEER values up to 273.
- Integrated inverter technology delivers high efficiency during part load conditions and provides precise individual zone control.
- Design flexibility with long piping lengths up to 3,280 ft. total, and up to 100 ft. vertical separation between indoor units.
- Corrosion resistant 1000 hr. salt-spray tested Daikin PE blue fin heat exchanger.
- Reduced commissioning time with VRV configuration software and Graphical User Interface (GUI), as compared to VRV III.



- VRV IV takes advantage of Daikin's unique zone and centralized controls that are optimized for the specific needs of North America.
- Outstanding 10-year limited parts warranty\* as standard.



### 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.

### FIND OUT MORE ABOUT DAIKIN VRV.

\*Complete warranty details available from your local distributor, manufacturer's representative, [www.daikincomfort.com](http://www.daikincomfort.com) or [www.daikinac.com](http://www.daikinac.com).

# VRV IV Operations



Lower capacity is required to cool and heat a building during mid-season.



A VRV system adapts to the required changes in capacity by varying the refrigerant volume. This results in an increase in efficiency at part load operation.



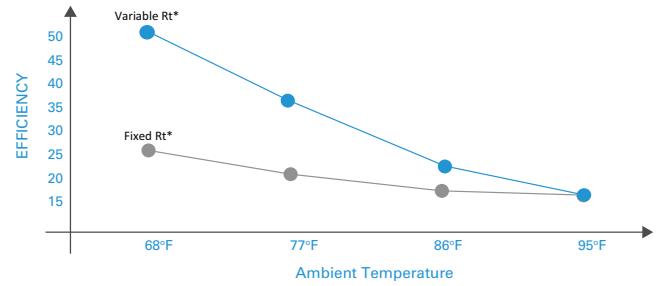
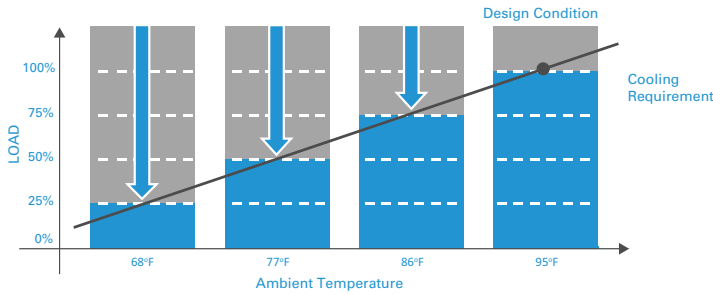
The efficiency of the VRV IV system is further increased by adjusting the refrigerant temperature depending on space load and weather conditions.



**Up to 28% Improved Seasonal Cooling Efficiency vs. VRV III**

## VRV IV VRT Advantages

The graphs below are intended only to depict how new Daikin VRV IV efficiency is increased by using VRT.



\*Data based on RXYQ96 outdoor unit only with 100% connection ratio.

## Technical Data for VRV IV Heat Pump Outdoor Units

		6 Ton		8 Ton		10 Ton		12 Ton		14 Ton		
Model	208-230V/3Ph/60Hz	RXYQ72TATJU		RXYQ96TATJU		RXYQ120TATJU		RXYQ144TATJU		RXYQ168TATJU		
	460V/3Ph/60Hz	RXYQ72TAYDU		RXYQ96TAYDU		RXYQ120TAYDU		RXYQ144TAYDU		RXYQ168TAYDU		
Performance	Rated Cooling Capacity	Btu/h	69,000	92,000	114,000	138,000	160,000					
	Rated Heating Capacity	Btu/h	73,000	103,000	129,000	154,000	176,000					
	Operation Range - Cooling	°F DB	10*-122		10*-122		10*-122					
	Operation Range - Heating	°F WB	-4 - 60		-4 - 60		-4 - 60					
	Sound Pressure	dB(A)	58		61		65					
	IEER (Ducted / Non-Ducted)		20.7 / 25.9		22.5 / 27.3		22 / 25.4		22.6 / 24.8		19.8 / 22.6	
	Airflow	cfm	5,544		5,827		6,286		8,228		8,228	
Refrigerant Piping	Vertical Pipe Length Above	ft.	164 (295 w/outdoor setting)		164 (295 w/outdoor setting)		164 (295 w/outdoor setting)		164 (295 w/outdoor setting)		164 (295 w/outdoor setting)	
	Vertical Pipe Length Below	ft.	130 (295 w/outdoor setting)		130 (295 w/outdoor setting)		130 (295 w/outdoor setting)		130 (295 w/outdoor setting)		130 (295 w/outdoor setting)	
	Vertical Pipe Length Between IDU	ft.	100		100		100		100		100	
	Actual Pipe Length	ft.	540		540		540		540		540	
	Equivalent Pipe Length	ft.	620		620		620		620		620	
	Total Pipe Length	ft.	3,280		3,280		3,280		3,280		3,280	
Unit	Weight (RXYQ_TAT / RXYQ_TAY)	lbs.	435 / 451		525 / 553		528 / 556		695 / 709		695 / 709	
	Dimensions (H x W x D)	in.	66-11/16 x 36-11/16 x 30-3/16		66-11/16 x 36-11/16 x 30-3/16		66-11/16 x 48-7/8 x 30-3/16		66-11/16 x 48-7/8 x 30-3/16		66-11/16 x 48-7/8 x 30-3/16	
		16 Ton		18 Ton		20 Ton		22 Ton		24 Ton		
Model	208-230V/3Ph/60Hz	RXYQ192TATJU		RXYQ216TATJU		RXYQ240TATJU		RXYQ264TATJU		RXYQ288TATJU		
	460V/3Ph/60Hz	RXYQ192TAYDU		RXYQ216TAYDU		RXYQ240TAYDU		RXYQ264TAYDU		RXYQ288TAYDU		
Combination		1 x RXYQ120T 1 x RXYQ72T		1 x RXYQ120T 1 x RXYQ96T		2 x RXYQ120T		1 x RXYQ144T 1 x RXYQ120T		2 x RXYQ144T		
		184,000		206,000		228,000		250,000		274,000		
Performance	Rated Heating Capacity	Btu/h	206,000		230,000		256,000		282,000		308,000	
	Operation Range - Cooling	°F DB	23-122		23-122		23-122		23-122		23-122	
	Operation Range - Heating	°F WB	-4 - 60		-4 - 60		-4 - 60		-4 - 60		-4 - 60	
	Sound Pressure	dB(A)	63		64		66		67		67	
	IEER (Ducted/Non-Ducted)		21.2 / 22.2		21.1 / 20.5		20.9 / 20.8		19.6 / 20.3		19.6 / 20.1	
	Airflow	cfm	5,544 + 6,286		5,827 + 6,286		6,286 + 6,286		6,286 + 8,228		8,228 + 8,228	
	Refrigerant Piping	Vertical Pipe Length Above	ft.	164 (295 w/outdoor setting)		164 (295 w/outdoor setting)		164 (295 w/outdoor setting)		164 (295 w/outdoor setting)		164 (295 w/outdoor setting)
Vertical Pipe Length Below		ft.	130 (295 w/outdoor setting)		130 (295 w/outdoor setting)		130 (295 w/outdoor setting)		130 (295 w/outdoor setting)		130 (295 w/outdoor setting)	
Vertical Pipe Length Between IDU		ft.	100		100		100		100		100	
Actual Pipe Length		ft.	540		540		540		540		540	
Equivalent Pipe Length		ft.	620		620		620		620		620	
Total Pipe Length		ft.	3,280		3,280		3,280		3,280		3,280	
Unit	Weight (RXYQ_TAT / RXYQ_TAY)	lbs.	435 + 528 / 451 + 556		525 + 528 / 553 + 556		528 + 528 / 556 + 556		528 + 695 / 556 + 709		695 + 695 / 709 + 709	
	Dimensions (H x W x D)	in.	(66-11/16 x 48-7/8 x 30-3/16) + (66-11/16 x 36-11/16 x 30-3/16)		(66-11/16 x 48-7/8 x 30-3/16) x 2		(66-11/16 x 48-7/8 x 30-3/16) x 2		(66-11/16 x 48-7/8 x 30-3/16) x 2		(66-11/16 x 48-7/8 x 30-3/16) x 2	
		26 Ton		28 Ton		30 Ton		32 Ton		34 Ton		
Model	208-230V/3Ph/60Hz	RXYQ312TATJU		RXYQ336TATJU		RXYQ360TATJU		RXYQ384TATJU		RXYQ408TATJU		
	460V/3Ph/60Hz	RXYQ312TAYDU		RXYQ336TAYDU		RXYQ360TAYDU		RXYQ384TAYDU		RXYQ408TAYDU		
Combination		1 x RXYQ168T 1 x RXYQ144T		2 x RXYQ168T		3 x RXYQ120T		1 x RXYQ168T 1 x RXYQ120T 1 x RXYQ96T		1 x RXYQ168T 1 x RXYQ144T 1 x RXYQ96T		
		296,000		312,000		334,000		352,000		372,000		
Performance	Rated Heating Capacity	Btu/h	334,000		344,000		372,000		400,000		435,000	
	Operation Range - Cooling	°F DB	23-122		23-122		23-122		23-122		23-122	
	Operation Range - Heating	°F WB	-4 - 60		-4 - 60		-4 - 60		-4 - 60		-4 - 60	
	Sound Pressure	dB(A)	68		68		66		68		68	
	IEER (Ducted/Non-Ducted)		18.8 / 19.9		18.5 / 20.6		18.5 / 19.4		18.5 / 21.1		19.0 / 21.1	
	Airflow	cfm	8,228 + 8,228		8,228 + 8,228		6,286 + 6,286 + 6,286		5,827 + 6,286 + 8,228		6,286 + 6,286 + 8,228	
	Refrigerant Piping	Vertical Pipe Length Above	ft.	164 (295 w/outdoor setting)		164 (295 w/outdoor setting)		164 (295 w/outdoor setting)		164 (295 w/outdoor setting)		164 (295 w/outdoor setting)
Vertical Pipe Length Below		ft.	130 (295 w/outdoor setting)		130 (295 w/outdoor setting)		130 (295 w/outdoor setting)		130 (295 w/outdoor setting)		130 (295 w/outdoor setting)	
Vertical Pipe Length Between IDU		ft.	100		100		100		100		100	
Actual Pipe Length		ft.	540		540		540		540		540	
Equivalent Pipe Length		ft.	620		620		620		620		620	
Total Pipe Length		ft.	3,280		3,280		3,280		3,280		3,280	
Unit	Weight (RXYQ_TAT / RXYQ_TAY)	lbs.	695 + 695 / 709 + 709		695 + 695 / 709 + 709		528 + 528 + 528 / 525 + 528 + 695		525 + 528 + 695 / 553 + 556 + 709		525 + 695 + 695 / 553 + 709 + 709	
	Dimensions (H x W x D)	in.	(66-11/16 x 48-7/8 x 30-3/16) x 2		(66-11/16 x 48-7/8 x 30-3/16) x 2		(66-11/16 x 48-7/8 x 30-3/16) x 2		(66-11/16 x 48-7/8 x 30-3/16) x 3		(66-11/16 x 48-7/8 x 30-3/16) x 3	

For all equipment installation and application limitations please refer to the specific Engineering Data Books.

\* Application rules apply.



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

© 2017 **DAIKIN NORTH AMERICA LLC** · Houston, Texas · USA · [www.daikincomfort.com](http://www.daikincomfort.com) or [www.daikinac.com](http://www.daikinac.com)

PF-VRV4 ACHP 01-17