



## VRV IV

### SETTING THE STANDARD AGAIN

#### VRV IV Air-Cooled Heat Pump

Daikin's VRV IV systems integrate advanced technology to provide comfort control with maximum energy efficiency and reliability. Currently available in heat pump configurations, VRV IV provides a solution for multi-family residential to large commercial applications desiring heating or cooling. The VRV IV is the first variable refrigerant flow (VRF) system to be assembled in North America.

#### Features:

- Total comfort solution for heating, cooling, ventilation and controls
- Redesigned and optimized for total Life Cycle Cost (LCC)
- Reduced install cost and increased flexibility as compared to VRV III with larger capacity single modules up to 14Tons and system capacity up to 34Tons
- Efficiency improved over VRV III by an average of 11% with IEER Values now up to 28
- Improved seasonal efficiency as compared to VRV III with automatic and customizable Variable Refrigerant Temperature (VRT) climate tuning
- Best-In-class warranty\* with 10 year compressor and parts limited warranty as standard
- Reduced commissioning time vs. VRV III with VRV configurator software and Graphical User Interface (GUI)
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Take advantage of Daikin's unique zone and centralized controls



#### 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 or manufacturer's representative.



COMMERCIAL ■ RENOVATION ■ NEW CONSTRUCTION

# VRV IV Operation

Lower capacity is required to cool and heat a building during mid season  
Adapting to required heat load by variable refrigerant volume



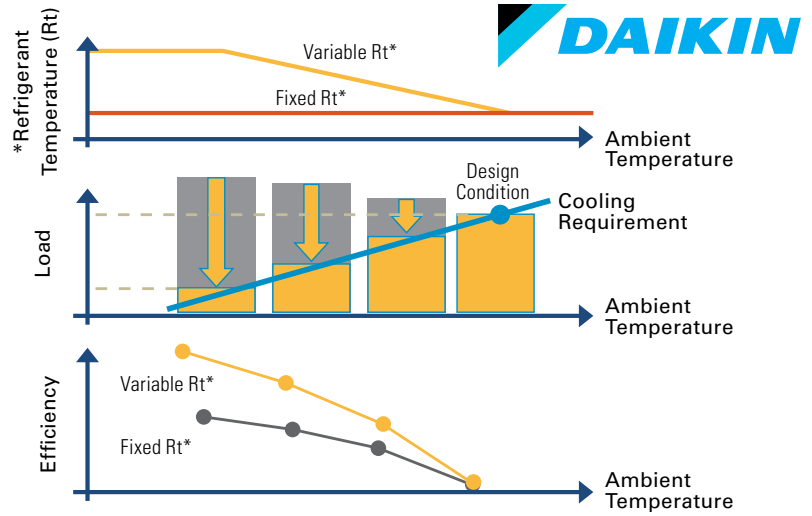
A VRV system adapts to the required changes in capacity by varying the refrigerant volume. This results in an increase in efficiency at part load operation



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



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



The above graphs are intended only to depict how advantages of the new Daikin VRV IV system combine to achieve the stated increase in seasonal efficiency. The graphs do not reflect test results, are not to scale and therefore do not quantify the effect of any such advantage.

Outdoor Units - RXYQ TTJU/TYDN Heat Pump			6 Ton	8 Ton	10 Ton	12 Ton	14 Ton
Model	Name 208-230V/3Ph/60Hz		RXYQ72TTJU	RXYQ96TTJU	RXYQ120TTJU	RXYQ144TTJU	RXYQ168TTJU
	Name 460V/3Ph/60Hz		RXYQ72TYDN	RXYQ96TYDN	RXYQ120TYDN	RXYQ144TYDN	RXYQ168TYDN
Performance	Rated Cooling Capacity	Btu/h	69,000	92,000	114,000	138,000	160,000
	Rated Heating Capacity	Btu/h	77,000	103,000	129,000	154,000	180,000
	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)	58	61	61	64	65
	IEER (Ducted / Non-Ducted)		22.8 / 26.5	22.7 / 28	21.4 / 23.5	21 / 24.1	19.8 / 22.1
Fan	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
	Dimensions (H x W x D)	in.	66-3/4 x 36-5/8 x 30-1/8				
			16 Ton	18 Ton	20 Ton	22 Ton	24 Ton
Model	Name 208-230V/3Ph/60Hz		RXYQ192TTJU	RXYQ216TTJU	RXYQ240TTJU	RXYQ264TTJU	RXYQ288TTJU
	Name 460V/3Ph/60Hz		RXYQ192TYDN	RXYQ216TYDN	RXYQ240TYDN	RXYQ264TYDN	RXYQ288TYDN
Performance	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
	Rated Cooling Capacity	Btu/h	184,000	206,000	228,000	251,000	274,000
Performance	Rated Heating Capacity	Btu/h	206,000	231,000	257,000	283,000	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	64	66	67
	IEER (Ducted/Non-Ducted)		20.7 / 22.2	20 / 20.5	18.4 / 20.8	19.3 / 20.3	19.3 / 20.1
	Fan	Airflow	cfm	5544 + 6286	5827 + 6286	6286 + 6286	6286 + 8228
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	Dimensions (H x W x D)	in.	(66-3/4 x 48-7/8 x 30-1/8) + (66-1/8 x 36-5/8 x 30-1/8)			
			26 Ton	28 Ton	30 Ton	32 Ton	34 Ton
Model	Name 208-230V/3Ph/60Hz		RXYQ312TTJU	RXYQ336TTJU	RXYQ360TTJU	RXYQ384TTJU	RXYQ408TTJU
	Name 460V/3Ph/60Hz		RXYQ312TYDN	RXYQ336TYDN	RXYQ360TYDN	RXYQ384TYDN	RXYQ408TYDN
Performance	Combination		1 x RXYQ168T 1 x RXYQ144T	2 x RXYQ168T	3 x RXYQ120T	1 x RXYQ168T 1 x RXYQ120T	1 x RXYQ168T 1 x RXYQ144T 1 x RXYQ96T
	Rated Cooling Capacity	Btu/h	297,000	320,000	342,000	365,000	380,000
Performance	Rated Heating Capacity	Btu/h	334,000	360,000	385,000	411,000	436,000
	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 / 19.5	18.5 / 19.4	18.5 / 20.4	19.0 / 20.9
	Fan	Airflow	cfm	8228 + 8228	8228 + 8228	6286 + 6286 + 6286	5827 + 6286 + 8228
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	Dimensions (H x W x D)	in.	(66-3/4 x 48-7/8 x 30-1/8) x 2			

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



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