DAIKIN

VRV

PRODUCT PORTFOLIO


A WORLD LEADING MANUFACTURER OF HVAC PRODUCTS
FOUNDED IN 1924
OVER 100,000 DAIKIN VRV SYSTEMS OPERATING THROUGHOUT NORTH AMERICA
RESEARCH & DEVELOPMENT
TED TO INNOVATIVE TECHNOLOGIES

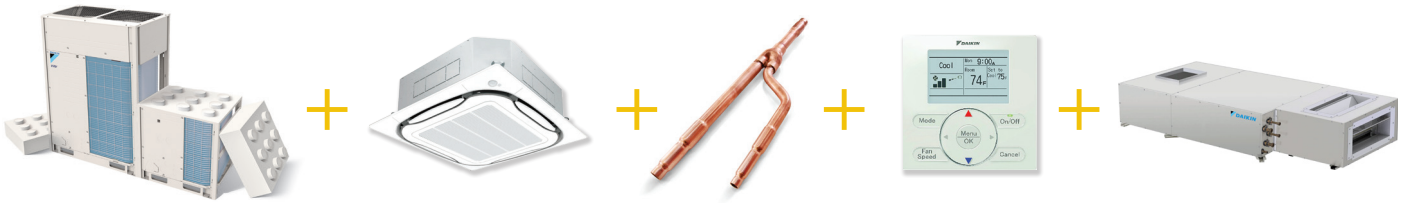
What is Daikin *VRV*?

One flexible package

Daikin *VRV* is a modular, commercially applied air conditioning and heating system that distributes refrigerant from the outdoor unit to multiple indoor units, providing efficiency, comfortable individual user control and reliability in one flexible package.

Daikin *VRV* systems provide advanced solutions for almost any large residential to commercial application. Available in air-cooled or water-cooled solutions and heat recovery or heat pump systems, *VRV* provides advanced heating and cooling options with individual zone control for both open plan and tightly grouped applications.

***VRV* is built upon 5 basic "Building Blocks" — Outdoor Unit, Indoor Unit, Piping, Controls, and Ventilation** — providing the attributes of a central chilled water system but with the simplicity of a split system. This makes it very flexible and ideal for energy-efficient and comfortable cooling and heating of many types of buildings such as banks, health care, skilled care, libraries, storage facilities, conference centers, etc.



Outdoor Unit + Indoor Unit + Piping + Controls + Ventilation

Product Portfolio

Outdoor Units

VRV EMERSON

VRV EMERION Heat Pump / Heat Recovery

Simple. Sustainable. Connected.

- Simple and Stylish design with expanded line up with single-module units from 6 – 20 T and dual-modules up to 40 T
- High energy efficiency with IEERs up to 30.0 delivers up to 30% efficiency increase compared to previous *VRV* systems
- Sealed e-box design with an ingress protection rating of IP55 provides for high dust and moisture protection
- Simplified diagnosis with built-in data recorder which stores up to 45 minutes of operational data
- Engineered for ease of installation and service with three-segment panel design. Design flexibility to enlarge system from single to a dual-module without changes to installed main pipe sizes for phased installation or tenant fit-out buildings
- Heating down to -13°F as standard and high heating capacities at 17°F make it an ideal choice for all-electric heat pump solutions
- Continuous heating during defrost capability with single module (16 T – 20 T) and all dual module systems. Only available on heat recovery.
- Hot gas defrost circuit allows for installation without base pan heater

VRV IV X

VRV IV X Heat Pump / Heat Recovery

Industry's first 3-phase variable refrigerant flow system to integrate with communicating gas furnaces.

- Equipped with Daikin's patented inverter based vapor-injection compressor to provide high heating capacities down to -13°F WB
- Enhanced design flexibility by allowing for phased installations with predefined pipe sizes and design rules
- New service window provides ease of access to the multi-functional display without removing the main electrical panel. The built-in multi-functional display is utilized for commissioning and maintenance and quickly converts to digital gauges to provide refrigerant pressure and temperatures
- Choice of gas furnace or heat pump heating for optimizing operational costs based on utility cost
- Field performable intermittent outdoor fan operation to help minimize snow accumulation on fan blades when the system is in thermal off
- Total comfort solution for heating, cooling, ventilation, and controls
- Outstanding warranty* with 10-Year Compressor and Parts Limited Warranty as standard
- Fully integrated solution with high efficiency (IEER up to 27.80 on Heat Recovery models and IEER up to 27.30 for Heat Pump)

[1] Multi module heat recovery systems only for continuous heating during defrost
† Conditions/rules apply. Refer to Installation and Engineering Manual for further details.
* Complete warranty details available from your local Daikin manufacturer's representative or distributor or online at www.daikincomfort.com or www.daikinac.com

VRV

VRV AURORA Heat Pump / Heat Recovery

- Variable refrigerant flow system Industry's first air-cooled system that delivers heating down to -22°F (-30°C) as standard
- Hot gas base pan circuit allows installation without an additional drain pan heater
- Designed to provide continuous heating during defrost and oil return[1]
- Engineered with Daikin vapor injection compressor for optimized part load efficiencies

VRV IV S-series

Air-Cooled

VRV IV-S systems are equipped with built-in intelligence which provide independent zoning control with maximum flexibility and energy savings. With the ability to connect up to ten indoor units to one outdoor unit, the space-saving *VRV IV-S* system is ideal for most light commercial and residential applications

- Available in 3, 4 and 5 ton modules
- Increase in efficiency up to 18 SEER & 10.5+ HSPF
- Year round comfort and energy savings delivered by VRT technology
- Broader diversity with ability to connect up to 9 indoor units
- Space saving design with under 39" height.** Over 25% smaller as compared to *VRV III*-S.
- Easier to install with over 39% weight reduction vs *VRV III*-S
- Low sound levels for comfort
- Higher reliability with Daikin's swing compressor
- Dependable operation in extreme ambient conditions up to 122°F
- Added safety and peace of mind with optional auto changeover to auxiliary heat
- Backed by a best in class 10-Year Parts Limited Warranty*

VRV

VRV T-Series Water-Cooled Condensing Unit Heat Pump / Heat Recovery

- Flexible System design with increased diversity up to 150%†
- Can be applied to both geothermal and boiler/tower applications as standard with condenser water inlet temperature as low as 14°F† in heating and 23°F† in cooling is possible
- Triple-stack capable to deliver up to 36 tons in just under 11.5 feet ceiling height thanks to the compact design
- Engineered with heat rejection cancellation technology† to eliminate mechanical room conditioning requirements
- 2-9V variable water flow control logic† as standard to increase waterside system operational efficiencies
- Drop-down switch box for easy service to key components
- Field selectable top or front refrigerant connections for flexible and easy installation

** Varies based on condensing unit model selected

TYPE	MODEL	FEATURES	PRODUCT NAME	CAPACITY (TONS)																			
				3	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
Air-Cooled	*VRV EMERION* Heat Pump & Heat Recovery	» New Simple and Stylish design with expanded line up with single-module units from 6 – 20 T and dual-modules up to 40 T. » High energy efficiency with IEERs up to 30.0 delivers up to 30% efficiency increase compared to previous *VRV* systems » Sealed e-box design with an ingress protection rating of IP55 provides for high dust and moisture protection. » Simplified diagnosis with built-in data recorder which stores up to 45 minutes of operational data. » Engineered for ease of installation and service with three-segment panel design. » Heating down to -13°F as standard and high heating capacities at 17°F make it an ideal choice for all-electric heat pump solutions » Continuous heating during defrost capability with single module (16 T – 20 T) and all dual module systems. Only available on heat recovery. » Hot gas defrost circuit allows for installation without base pan heater.	RXYQ_A, REYQ_A VRV EMERION				■																	
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	VRV IV X Heat Pump & Heat Recovery	» Industry's first 3-phase variable refrigerant flow system to integrate with communicating gas furnaces » Enhanced design flexibility by allowing for phased installations with predefined pipe sizes and design rules » *VRV IV X* service window provides ease of access to the multi-functional display without removing the main electrical panel. The built-in multi-functional display is utilized for commissioning and maintenance and quickly converts to digital gauges to provide refrigerant pressure and temperatures.	RXYQ_X, REYQ_X VRV IV X				■	■	■	■	■														
												■	■	■	■	■	■	■						
																			■	■	■	■	■	
	VRV AURORA Heat Pump & Heat Recovery	» Variable refrigerant flow system Industry's first air-cooled system that delivers heating down to -22°F (-30°C) as standard » Hot gas base pan circuit allows installation without an additional drain pan heater » Designed to provide continuous heating during defrost and oil return[1] » Engineered with Daikin vapor injection compressor for optimized part load efficiencies [1] Multi module heat recovery systems only for continuous heating during defrost	RXLQ_T, RELQ_T VRV				■	■	■																
										■		■		■										
	VRV IV-S Heat Pump	» Single phase technology » Space saving solution without compromising on efficiency » For residential and light commercial applications	RXTQ_TB VRV IV S-series	■	■	■																		
Water-Cooled	*VRV T-Series* Water-Cooled Condensing Unit Heat Recovery / Heat Pump	» Ideal for high rise buildings, using water as heat source » Enables use of geothermal energy as a renewable energy source » Flexible System design with increased diversity up to 150%*** » Triple-stack capable to deliver up to 36 tons in just under 11.5 feet ceiling height thanks to the compact design » Engineered with heat rejection cancellation technology*** to eliminate mechanical room conditioning requirements » 2-9V variable water flow control logic*** as standard to increase waterside system operational efficiencies	RWEQ_T VRV				■**	■	■	■														
												■	■	■	■	■								
																	■	■	■	■	■	■		

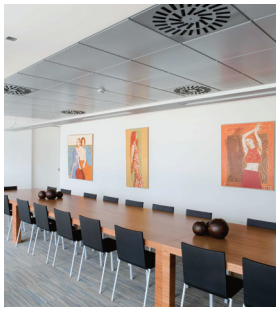
** 6-ton model is a PC-Series model. Some features may not be available for this model. *** Conditions/rules apply. Refer to Installation and Engineering Manual for further details.

Indoor Units Overview

What are your choices?

FXMQ_TBVJU
HSP DC Concealed Ducted Unit

Ceiling mounted DC-Ducted unit — ideal for small to large spaces in need of a concealed air-conditioning system.

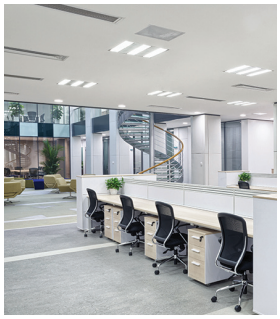


FXMQ_MVJU
HSP High Capacity Concealed Ducted

Ideal unit for larger open space floor plans usually found in offices, retails, hotels or education facilities.

FXSQ_TBVJU
MSP Concealed Ducted

Ducted unit with compact design and powerful static pressure capabilities.

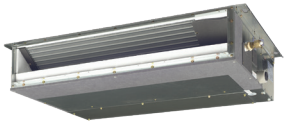


FXTQ_TAVJU
Multi-Position Air Handling Unit

Vertical air handling unit ideal for both residential and light commercial applications. It has upflow, downflow, horizontal left and horizontal right.

FXDQ_MVJU
LSP Slim Concealed Ducted Unit

Slim duct built-in concealed unit with low profile and low sound level.



FXNQ_MVJU9
Concealed Floor-Standing Unit

Floor-standing unit that can easily be installed along a perimeter wall — or concealed

FXLQ_MVJU9
Floor-Standing Unit

Great way to save space. The floor-standing units can easily be installed along a perimeter wall.

FXFQ_TVJU

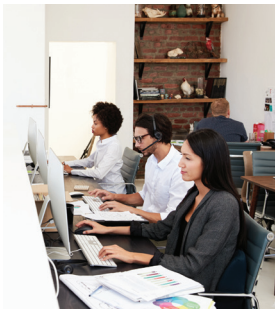
Round Flow Sensing Cassette, Ceiling Mounted

Ideal for open plan applications such as classrooms and offices where adaptive comfort control is preferred. Provides excellent comfort level, energy efficiency, and flexibility due to advanced control functions.

FXZQ_TAVJU

VISTA 2x2 Cassette for *VRV*

2'x2' 4-way Cassette best for open plan applications such as classrooms, offices and retail.



FXUQ_PVJU

4-Way Blow Ceiling-Suspended Cassette

Perfect solution for rooms without a false ceiling, or minimal space above a false ceiling, where adaptive comfort control is preferred.

FXEQ_PVJU

Ceiling-Mounted Cassette (Single Flow)

Slim and compact design for installation flexibility. For hotel rooms, offices and residential.

FXHQ_MVJU

Ceiling-Suspended Unit

Ceiling-suspended with slim and elegant design solution for *VRV*.

FXAQ_PVJU

Wall-Mounted Unit

Unit ideal for cooling or heating smaller zones such as stores, offices and restaurants. Compact and stylish design.

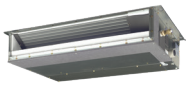
HXY48TAVJU

Low Temperature Hydrobox

High-efficiency all-electric heat pump hot and chilled water solution for *VRV*.

Product Portfolio (cont.)

Indoor Units

TYPE	MODEL	FEATURES	PRODUCT NAME
Ducted	HSP DC Concealed Ducted Unit	» Energy efficient due to the DC fan motor » Ideal to use together with the optional Daikin Zoning Kit, DZK » Enhanced indoor air quality and LEED® ready with MERV 13 filter options » Flexible ductwork design with ESP capabilities up to 0.8" In. Wg » Low profile height of only 9-11/16"	FXMQ_TBVJU 
	MSP Concealed Ducted Unit	» Powerful static pressure up to 0.6" In. Wg » Low profile height of only 9-11/16" » Auto fan speed control optimizes energy use, occupant comfort, and sound levels » Factory shipped for rear air inlet – field convertible to bottom air inlet » Integral condensate pump with more than 25" of lift	FXSQ_TBVJU 
	LSP Slim Concealed Ducted Unit	» Slim height, at only 7- ⅞" » Washable filter included » Low sound level » Factory shipped for rear air inlet —field convertible to bottom air inlet » Condensate pump with vertical lift of up to 21-⅝" included as standard	FXDQ_MVJU 
	Multi-Position Air Handling Unit	» Ideal replacement for fan coils, geothermal heat pumps or traditional splits systems » Upflow and horizontal right installation is permitted » ECM fan motor provides energy efficiency » Wide line up of electric heat (field installed) options from 3kW to 20kW	FXTQ_TAVJU 
	HSP High Capacity Concealed Ducted Unit	» Design flexibility with a capacity range up to 96 MBH » Improved ductwork and filtration flexibility with high CFM and ESP capabilities » Low profile design of less than 19" high to reduce required installation space » Ideal for Hotels, Schools, Retail	FXMQ_MVJU 
Duct-Free	Low Temperature (LT) Hydrobox	» High-efficiency all-electric heat pump hot and chilled water solution for *VRV* » Direct control over the leaving water temperature for a wide leaving water temperature range down to 50°F in cooling and up to 113°F in heating » Ships with factory-installed hydronic accessories	HXY48TAVJU 
	Round Flow Sensing Cassette ROUND FLOW	» True 360° Airflow and three room sensors enables optimized occupant comfort » Energy efficient with DC fan motor and auto-logic that adjusts fan speed » Optional self-cleaning filter panel to further increase efficiency and reduce maintenance » Increased indoor air quality with high efficiency filter options and ventilation connection kit » Very flexible with 18 different possible airflow patterns	FXFQ_TVJU 
	4-Way Ceiling-Suspended Cassette	» Very low unit height of under 8" » Optional Sensor Kit enables input from three room sensors » Stylish unit blends easily with any interior » Individual air louver control	FXUQ_PVJU 
	VISTA 2x2 Cassette for *VRV* Systems	» Fits in a standard 2' x 2' ceiling grid with no overlap of adjacent tiles » Features a low profile decoration panel design measuring only 5/16" deep » Space-saving depth of units requires only 11.75" of ceiling space » Easy-to-clean grille, washable long-life filter » Optional space and presence sensor accessory enhances energy efficiency and occupant comfort	FXZQ_TAVJU 
	Ceiling-Mounted Cassette (Single flow)	» Only 7- ⅞" in height and a width of 18-½" making it possible to use this style of indoor unit in the tightest of spaces » The unit is equipped with both horizontal and vertical louvers to optimize the airflow and throw to suite your room design » The indoor unit can be set to 5 predetermined fan speeds which allows for optimum and comfortable airflow » Factory installed condensate pump with a lift capacity of up to 33- 7/16" (measured from the bottom of the unit)	FXEQ_PVJU 
	Ceiling-Suspended Unit	» One of our slimmest indoor units, less than 8" » Wide air discharge outlet distributes a comfortable airflow throughout the entire space » Innovative stream fan technology keeps sound pressure levels low » Smooth flat louver design makes cleaning simple » Long-life filter is standard	FXHQ_MVJU 
	Wall-Mounted Unit	» Auto-swing mechanism ensures efficient air distribution via louvers » Wide air discharge outlet distributes a comfortable airflow throughout the entire space » Horizontal louvers and front panel can be easily removed for cleaning » Drain pipe can be easily hidden from sight » Compact and stylish design	FXAQ_PVJU 
	Floor-Standing Unit	» Ideal for installation beneath a window » Unit requires minimal installation space » Fitted with a washable long-life filter » Remote-control options available » Space-saving unit can be freestanding or wall-mounted	FXLQ_MVJU9, FXNQ_MVJU9 

	CAPACITY														
MBH	5.8	7.5	9.5	12	15	18	24	30	36	42	48	54	60	72	96
TON	0.5	0.6	0.75	1	1.25	1.5	2	2.5	3	3.5	4	4.5	5	6	8
					■	■	■	■	■		■	■			
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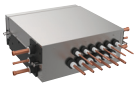
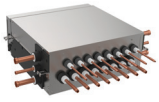
Product Portfolio (cont.)

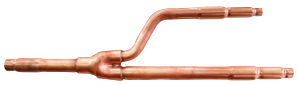
Branch Selector Boxes

Providing flexibility and minimizing mechanical and electrical installation costs, Daikin's branch selector boxes that are used in Heat Recovery systems, are ideal for spaces that require individual heating and cooling control.

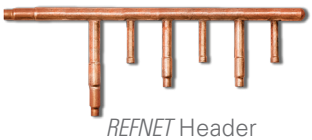
	SINGLE-PORT BRANCH SELECTOR			MULTI-PORT BRANCH SELECTOR					
									
MODELS	BSQ36TVJ	BSQ60TVJ	BSQ96TVJ	BS4Q54TVJ	BSF4Q54TVJ	BSF6Q54TVJ	BSF8Q54TVJ	BS10Q54TVJ	BS12Q54TVJ
PORTS	1			4		6	8	10	12

REFNET

REFNET joints distribute correct flow of refrigerant in every branch of the piping network. Sourced locally and complies to ASTM E-84 Class A low flame and smoke spread index requirements.



REFNET Joint



REFNET Header

VRV IV X, VRV IV / *VRV AURORA* Heat Pump

OPTIONAL ACCESSORIES		RXYQ72 - 96T RXYQ72 - 96X RXLQ72 - 96T	RXYQ120-168T RXYQ120-168X RXLQ120T	RXYQ192-336T RXYQ192-336X RXLQ144-240T	RXYQ360-408T RXYQ360-408X RXYQ360-480MBH
Distributed piping	*REFNET* Header	KHRP26M22H (max. 4 branch) KHRP26M33H (max. 8 branch)	KHRP26M22H (max. 4 branch) KHRP26M33H (max. 8 branch) KHRP26M72H (max. 8 branch)	KHRP26M22H (max. 4 branch) KHRP26M33H (max. 8 branch) KHRP26M72H (max. 8 branch) KHRP26M73HU (max. 8 branch)	
	REFNET Joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26M72TU	KHRP26A22T, KHRP26A33T, KHRP26M72TU, KHRP26M73TU	
Outdoor unit multi connection piping kit		—		BHFP22P100U	BHFP22P151U

VRV EMERION / *VRV IV X* / *VRV IV* / *VRV AURORA* Heat Recovery

OPTIONAL ACCESSORIES		RXYQ72-96A REYQ72-96A REYQ72 - 96X RELQ72 - 96T	RXYQ120-168A REYQ120-168A REYQ120-168X REYQ120-168T	RXYQ192-480A REYQ192-480A REYQ192-336X REYQ192-336T	REYQ360-456X REYQ360-456T
Distributed piping	*REFNET* header	KHRP25M33H (max. 8 branch)	KHRP25M33H (max. 8 branch) KHRP25M72H (max. 8 branch)	KHRP25M33H (max. 8 branch) KHRP25M72H (max. 8 branch) KHRP25M73HU (max. 8 branch)	
	REFNET joint	KHRP25A22T KHRP25A33T	KHRP25A22T KHRP25A33T KHRP25M72TU	KHRP25A22T KHRP25A33T KHRP25M72TU KHRP25M73TU	
Outdoor unit multi connection piping kit		—		BHFP26P100U[1]	BHFP26P151U

[1]Reducer pipe kit KHFP26P100UA is required for REYQ264-480A models

VRV T-Series Water-Cooled Heat Pump / Heat Recovery and *VRV-IV-S*

UNIT MODEL NUMBER		*VRV T-SERIES* WATER-COOLED					*VRV-IV-S*
		RWEQ96T	RWEQ120T	RWEQ144T	RWEQ192 - 288T	RWEQ312 - 432T	RXTQ36TAVJ9A RXTQ48TAVJUA RXTQ60TAVJUA
REFNET Header	Heat Pump	KHRP26M22H (Max 4 branch) KHRP26M33H (Max 8 branch)	KHRP26M22H (Max 4 branch), KHRP26M33H (Max 8 branch) KHRP26M72H (Max 8 branch)		KHRP26M22H (Max 4 branch), KHRP26M33H (Max 8 branch) KHRP26M72H (Max 8 branch), KHRP26M73HU (Max 8 branch)		KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch
	Heat Recovery	KHRP25M33H (Max 8 branch)	KHRP25M33H (Max 8 branch) KHRP25M72H (Max 8 branch)		KHRP25M33H (Max 8 branch), KHRP25M72H (Max 8 branch) KHRP25M73HU (Max 8 branch)		—
REFNET Joint	Heat Pump	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26M72TU		KHRP26A22T, KHRP26A33T, KHRP26M72TU, KHRP26M73TU		KHRP26A22T
	Heat Recovery	KHRP25A22T, KHRP25A33T	KHRP25A22T, KHRP25A33T, KHRP25M72TU		KHRP25A22T, KHRP25A33T, KHRP25M72TU, KHRP25M73TU		—
Outdoor Unit Multi Piping Connection Kit	Heat Pump	—			BHFP22T84U	BHFP22T126U	—
	Heat Recovery	—			BHFP26T84U	BHFP26T126U	—

Product Portfolio (cont.)

Hail Guard Kits

The optional hail guard kit for *VRV* 3-phase enables optimal airflow for efficient heat transfer while providing condenser coil protection from hail damage in severe climates. Each hail guard kit, that is field installed, consists of 4 panels (Right, Left, Front and Back).

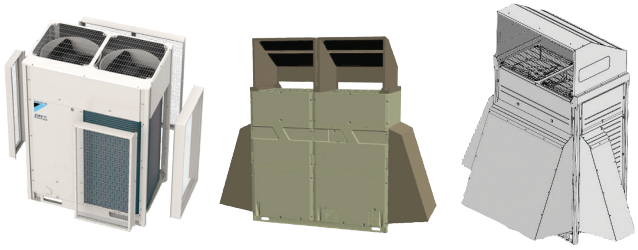
Hail Guard Kit for *VRV IV X, VRV IV,* and *VRV AURORA*

	QUANTITY OF KITS PER ODU MODELS					PANEL DIMENSIONS (H X W X D)			
VRV IV	R_YQ72T	R_YQ96-168T	R_YQ192T	R_YQ216-336T	R_YQ360-456T	Right Panel	Left Panel	Front Panel	Front Panel
VRV AURORA		R_LQ72-120T		R_LQ144-240T					
VRV IV X HP	RXYQ72X	RXYQ96-168X	RXYQ192X	RXYQ216-336X	RXYQ360-456X				
VRV IV X HR		REYQ72-168X		REYQ192-336X	REYQ360-408X				
*VRV*4HGS-K1	1		1			45 7/8" x 26" x 4"	45 7/8" x 12 7/8" x 4"	45 7/8" x 13 1/4" x 4"	45 7/8" x 32 5/8" x 4"
*VRV*4HGL-K1		1	1	2	3			45 7/8" x 24" x 4"	45 7/8" x 44 3/4" x 4"

*Refer engineering and installation manual for more detail.

Hail Guard Kit for *VRV EMERION*

VRV EMERION	QUANTITY OF KITS PER ODU MODELS		
	RXYQ72A REYQ72A	RXYQ96-168A, REYQ96-168A	RXYQ192-240A, REYQ192-240A
*VRV*6HGM-K1	1		
*VRV*6HGL-K1		1	
*VRV*6HGXL-K1			1



Snow/Wind Hood Kits

The optional Snow/Wind Hood Kits mount over the heat exchanger coil to protect from snow build-up and wind in cold climates. The Hoods install easily to condensing units using existing screw taps with no modification required. Different kits can be ordered for different job requirements.

VRV IV, IV X, AURORA	KIT PART NUMBER	CHASSIS SIZE	KIT INCLUSION	
	VRV-SHS-FR	Small Chassis	Front Hood	Rear Hood
	VRV-SHL-FR	Large Chassis	Front Hood	Rear Hood
	VRV-SH-RL	Both Chassis	Right Hood	Left Hood
	VRV-SHS-T	Small Chassis	Top Hood	
	VRV-SHL-T	Large Chassis	Top Hood	

VRV EMERION	KIT PART NUMBER	CHASSIS SIZE	KIT INCLUSION	
	*VRV*6-SHM-FR	Medium Chassis	Front Hood	Rear Hood
	*VRV*6-SHL-FR	Large Chassis	Front Hood	Rear Hood
	*VRV*6-SHXL-FR	X-Large Chassis	Front Hood	Rear Hood
	*VRV*6-SH-RL	All Chassis	Right Hood	Left Hood
	*VRV*6-SHM-T	Medium Chassis	Top Hood	
	*VRV*6-SHL-T	Large Chassis	Top Hood	
	*VRV*6-SHXL-T	X-Large Chassis	Top Hood	

NUMBER OF KITS REQURIED FOR EACH OUTDOOR SYSTEM															
MODEL TYPE			NUMBER OF MODULES	*VRV*6-SHM-FR	*VRV*6-SHL-FR	*VRV*6-SHXL-FR	*VRV*6-SHM-T	*VRV*6-SHL-T	*VRV*6-SHXL-T	*VRV*6-SH-RL	*VRV*-SHS-FR	*VRV*-SHL-FR	*VRV*-SH-RL	*VRV*-SHS-T	*VRV*-SHL-T
VRV EMERION	208-230V /460V	RXYQ72A, REYQ72A	Single	1			1			1					
		RXYQ96-168A, REYQ96-168A	Single		1			1		1					
		RXYQ196-240A, REYQ196-240A	Single			1			1	1					
		RXYQ264-336A, REYQ264-336A	Dual		2			2		1					
		RXYQ360A, REYQ360A	Dual		1	1		1	1	1					
		RXYQ384-480A, REYQ384-480A	Dual			2			2	1					
VRV AURORA	208-230V /460V / 575V	R_LQ72-120T	Single									1	1		1
		R_LQ144-240T	Dual									2	1		2
VRV IV Heat Recovery Heat Pump	208-230V / 460V	R_YQ72T	Single								1		1	1	
		R_YQ96-168T	Single									1	1		1
		R_YQ192T	Dual								1	1	1	1	1
		R_YQ216-336T	Dual									2	1		2
		R_YQ360-456T*	Triple									3	1		3
VRV IV X Heat Recovery	208-230V / 460V	REYQ72-168X	Single									1	1		1
		REYQ192-336X	Dual									2	1		2
		REYQ360-456X	Triple									3	1		3
VRV IV X Heat Pump	208-230V / 460V	RXYQ72X	Single								1		1	1	
		RXYQ96-168X	Single									1	1		1
		RXYQ192X	Dual								1	1	1	1	1
		RXYQ216-336X	Dual									2	1		2
		RXYQ360-408X	Triple									3	1		3

*Up to 408 on Heat Pump

DZK
Daikin Zoning Kit

Kits and Accessories

The optional Daikin Zoning Kit (DZK) increases the flexibility of the Daikin *VRV* systems by adding a Zoning Box to an indoor unit fan coil, allowing several separate ducts to supply air to different individually-controlled zones in the building. A zone can be a room, part of room, or several rooms. This flexible and scalable Zoning Kit integrates seamlessly with the indoor unit fan coil controls. The DZK system controls work together with the regular Daikin zone controller (i.e. BRC1E73) to establish the required set-point, fan speed and mode of operation that is then requested to the *VRV* indoor unit via the Daikin zone controller. This allows the internal DZK control algorithms to look at the number of zone dampers in operation, and at what position the dampers need to be and adjust the *VRV* indoor unit operation accordingly. The DZK system is not directly compatible with the suite of Daikin centralized control options such as *iTM*.

A complete Daikin Zoning Kit consists of Zoning Box (with Control Board), Wired Thermostat, and Wireless Thermostats. The optional DZK *BACnet* Interface enables any *BACnet*/IP compatible Building Management System to be used for remote monitoring and control of the DZK.

Wired Thermostat

The 4th generation DZK introduces a software redesign for the Wired thermostat. The revised software offers a simplistic interface for commissioning DZK controls for an enhanced user experience.

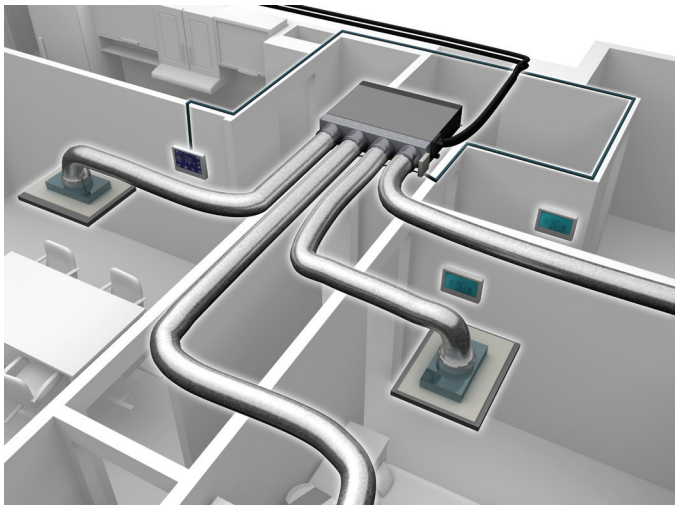
The Wired thermostat in the DZK is a graphical colored, touch-screen interface with text menus, intuitive icons, and guided scheduling capability. It displays temperatures and operating values, and selects the operating mode for the system.

Wireless Thermostats

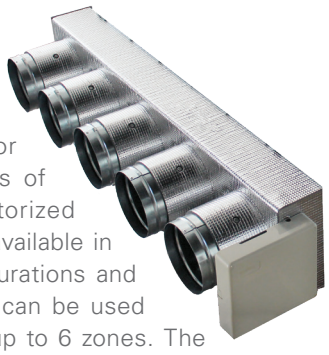
The optional Wireless thermostat offers a backlit, low energy E Ink display with capacitive touch buttons. The user can adjust the zone set point temperature, set user mode schedules, activate local ventilation, and more.

The optional Wireless Lite thermostat offers a sleek, simple user interface to adjust the local zone set point temperature using led-lit capacitive touch buttons.

Now with BACnet™/IP compatibility



Zoning Box with Control Box
(Model Depends on Indoor Unit)



The Zoning Box in the Daikin Zoning Kit mounts easily on Daikin's Indoor Unit FXMQ–P or FXSQ series fan coils. It consists of the enclosure, individually motorized dampers, and a control box. It is available in different sizes and damper configurations and by utilizing ducts for air supply it can be used to control the air temperature in up to 6 zones. The wired thermostat and the wireless thermostats provide temperature inputs and user interfaces for programming and adjustment of the control functions for each zone.

Daikin *BACnet* HUB4 Module

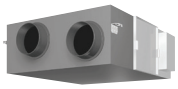
The DZK BACnet™ HUB module will work with any *BACnet*/IP & *BACnet*/MSTP compatible Building Management System. The DZK BACnet Hub is now Wi-Fi capable and provides remote access via the Airzone Cloud app or device web browser. (DZK-*BACnet*-HUB4)

Major Accessories Lineup

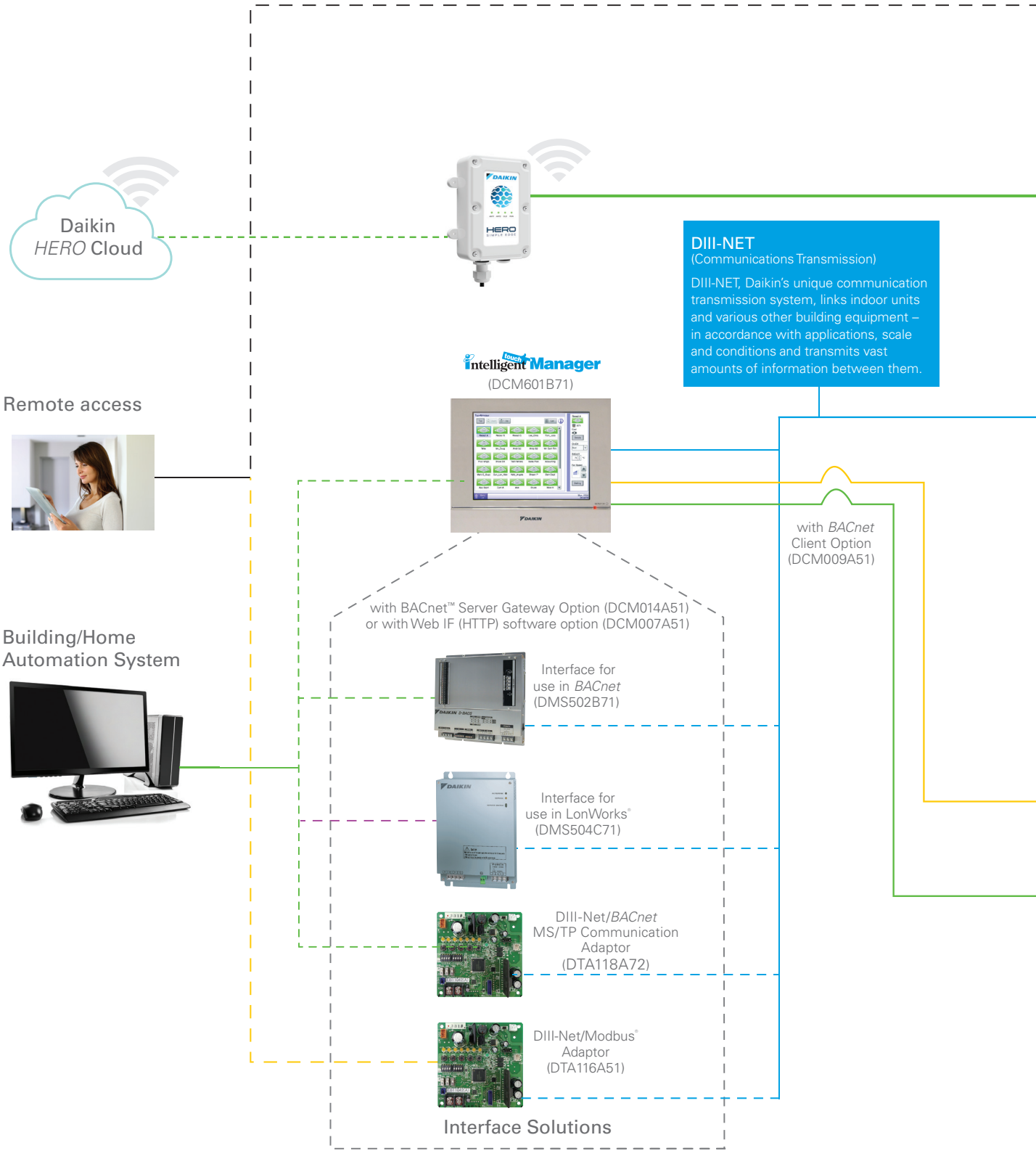
Air Treatment Systems

Daikin's Outside Air Processing Unit can combine fresh air treatment and air conditioning, supplied from a single system.

The compact Energy Recovery Ventilator is designed to improve indoor air quality while reducing the overall HVAC system power consumption. This is achieved by providing fresh outside air and recovering waste heat from exhaust air leaving the conditioned space.

		OUTSIDE AIR PROCESSING UNIT, FXMQ_MFVJU	ENERGY RECOVERY VENTILATOR, VAM-GVJU
			
VRV Refrigerant Piping		Connectable	Not connectable
VRV Control Wiring		Connectable	
High Efficiency Filter (MERV 8 and MERV 13)		Option	Not available
Ventilation System		Air supply	Air supply and Air exhaust
Power Supply	V/ph/Hz	208-230/1/60	
Airflow Rate	CFM	635 988 1236	305/300/170 470/470/390 600/600/500 1200/1200/930

VRV Control Systems Overview



Limitations may apply to some models and functions.
Please contact your local sales office for details.

Note: *BACnet* is a registered trademark of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). *LonWorks* is a trademark of Echelon Corporation registered in the United States and other countries. *Modbus* is a registered trademark of Modicon.

- DIII-NET Line
- *BACnet*/Ethernet or *LonWorks* network communication line
- RS485 Modbus line
- P1P2 line
- Connection line

through BACnet™ MS/TP, Modbus®, or cloud integration

Zone Controllers and Integration

DKN Plus Interface

Third-party Thermostat

Daikin *One* Touch

Daikin *One+* Smart Thermostat

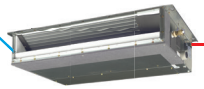
DKN Cloud Wi-Fi Adaptor

Madoka Remote Controller

Wireless Remote Controller

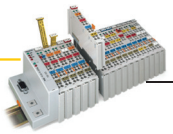
Navigation Remote Controller (BRC1E73)

VRV Indoor Unit



External Equipment Control

WAGO® I/O



BACnet™/IP

Building services equipment:

- » Sensors
- » Ventilation Equipment
- » Building Lights
- » Pump
- » Valve

Daikin *WAGO BACnet*/IP Controller (750-832)

Complete Control of External Equipment with Custom Programming

MicroTech III

Dedicated Outside Air Supply (DOAS)

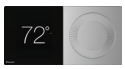
BACnet/IP

Light Commercial RTU

VRV Control Systems (cont.)

Daikin *VRV* controls

Optimized for *VRV* technology, Daikin controls provide highly scalable solutions for all applications and budgets. *VRV* controls offer solutions to meet your project controls needs from individual zone control with local controllers to centrally controlling the building with Centralized Controllers and/or interfacing with Building Management Systems (BMS) for comfort control in an easily managed and operated system.

PROJECT REQUIREMENTS	DAIKIN *VRV* CONTROLS										
	 *Madoka* Remote Controller	 DKN Cloud Wi-Fi Adaptor	 *Navigation* Remote Controller	 Daikin *One+* Smart Thermostat	 Daikin *One* Touch	 *intelligent Touch Manager*	 BACnet™ Interface	 LonWorks® Interface	 Modbus® Interface	 BACnet™ MSTP Adaptor	 Simple Edge
Individual zone control	■	■	■	■	■	■	■	■	■	■	
Independent cool and heat set-points	■	■	■	■	■	■				■	
Individual zone control with weekly programmable scheduling		■	■	■	■	■	■	■	■	■	
Basi On/Off control for indoor units	■	■	■	■	■	■	■	■	■	■	
Advanced multi-zone control of small to medium size projects						■	■	■	■	■	
Advanced multi-zone control of large commercial projects						■	■	■			
Advanced multi-zone control with scheduling logic and calendar						■					
Automatic cooling/heating changeover for heat pump systems	■	■	■	■	■	■					
Single input batch shutdown of all connected air handlers						■	■	■	■	■	
Web browser control and monitoring						■	■	■	■	■	■
E-mail notification of system alarms and equipment malfunctions						■	■	■	■	■	■
Multiple tenant power billing for shared condenser applications						■					
Temperature set-point range restrictions	■		■	■	■	■	■	■	■	■	
Graphical user interface with floor plan layout						■	■	■	■	■	
Start/stop control of ancillary building systems*						■	■	■	■	■	
Daikin *VRV* integration with *BACnet* based automation systems						■	■			■	
Daikin *VRV* integration with *LonWorks* based automation systems								■			
Daikin *VRV* integration with *Modbus* based automation systems		■							■		
Wi-Fi option remote access through smartphone app		■		■	■						
View service data on a graphical view											■
Trend and Plot (Current and Past Data)											■
Adjust outdoor unit field settings remotely											■
Multisite Monitoring				■	■						■
Automated Reports											■

* Requires WAGO® IO module (for use with *iTM* only).

■ Native application or feature for this device. ■ Dependent upon capabilities of the third party energy management system

Control Options

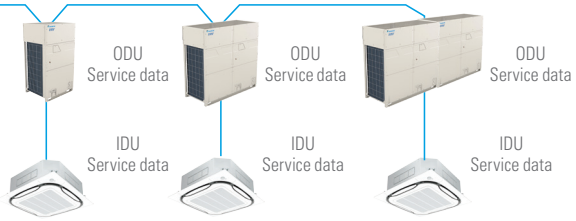
Network solutions

TYPE		*iTM*	LonWorks®	BACnet™	ModBus®	BACnet™ MSTP Adaptor	DKN Plus Interface
							
Screen	Layout screen	■					
	Touch screen	■					
Integration	Mini BMS for heating, air conditioning applied systems and refrigeration units (*BACnet* and WAGO®)	■					
	3rd party equipment integration	■					Tstat & Aux Heater
Control	Basic control functions: on/off, set point setting, air flow settings, operation mode	■	■	■	■	■	■
	Temperature limitation	■					
	Setback	■					
	Automatic changeover	■					■
	Weekly schedule and special day pattern	■					■
	Timer extension	■					
	Forced off	■	■	■		■	■
	Interlock	■					
Monitoring	Basic control functions: ON/OFF status, operation mode, set point temp.	■	■	■	■	■	■
	Filter status	■	■	■	■	■	
	Malfunction code	■	■	■	■	■	■
	History (Control, malfunction, settings, status)	■					
	Data storage (indoor and outdoor unit operation data)	■					
	Visualization	■					
Options	PPD (Power Proportional Distribution)	■					
	Web access and control	Standard					Wi-Fi Access
	BACnet Client	■					
	BACnet Server	■				■	■
	D-Net Service	■					
	Operation Data	■				■	
Other	Maximum number of indoor unit groups	8 x 64	64	4 x 64	16	32	1

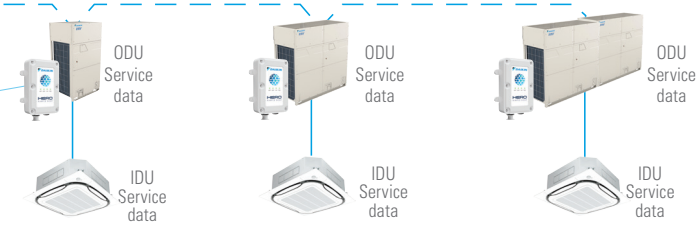
Powerful Service Tool with Indoor and Outdoor Unit Operation Data Points

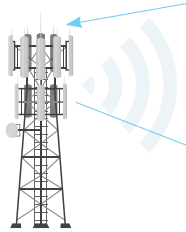
» When a problem occurs, the BMS integrators and Service Technicians can start troubleshooting remotely immediately before going to the site.
» Indoor and outdoor operation data trending* by Third party BMS can benefit the *VRV* service process.

*BMS programming needed



Optional





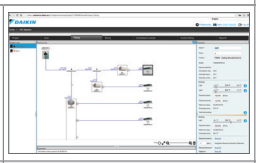
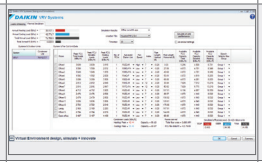
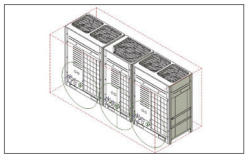
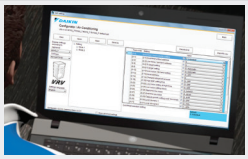
Cell Tower

» Remotes access to the HVAC to check system health.
» When a problem occurs, the Service Technicians can start troubleshooting remotely immediately before going to the site.
» Indoor and outdoor operation data trending via the *HERO* Cloud Service can benefit the *VRV* service process.

Support and Tools

The tools have been designed to be simple to use, easily accessible and to address the various considerations and steps in the evolution of a residential or commercial project, aimed at helping the architect, consulting engineer, contractor, installation technician, and service company to enhance workflows and general project execution

Daikin *VRV* Support and Tools Overview

CATEGORIES		TOOLS															
		WebXpress	Ventilation Xpress	Controls Configurator	Online Energy Calculator	IES-VE Daikin VRV plug-in	Performance curves for third-party energy simulation Programs	CAD drawings	Revit models	Reference Charge Calculator	Ventilation Rate Calculator	Daikin City (including Guide Specs, IOMS etc.)	Daikin eQuip application	Dr. Daikin	VRV Configurator	Service Checker	Online Spare Parts Bank
Selection		■	■	■													
Energy screening and simulation					■	■	■										
Design and verification								■	■	■	■						
Online and tablet reference (spec, data, submittal)												■					
Smartphone and mobile reference													■	■			
After sales and service															■	■	■


EXIT
GIRLS
RESTROOM

COMMERCIAL ■ RENOVATION ■ NEW CONSTRUCTION

About Daikin:

Daikin Industries, Ltd. (DIL) is a global Fortune 1000 company and is recognized as one of the largest HVAC (Heating, Ventilation, Air Conditioning) manufacturers in the world. Founded in 1924, Daikin is approaching 100 years of HVAC worldwide leadership. DIL is primarily engaged in developing indoor comfort systems and refrigeration products for residential, commercial, and industrial applications. Its consistent success is derived, in part, from a focus on innovative, energy-efficient, and premium quality indoor climate and comfort management solutions.

Before purchasing an appliance in this document, read important information about its estimated annual energy consumption, yearly operating cost, or energy efficiency rating that is available from your retailer.

WARNINGS:

- Always use a licensed installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a licensed contractor to install those parts and accessories. Use of unauthorized parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.
- For any inquiries, contact your local Daikin sales office.

DAIKIN

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

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