



VRV **EMERSON**

HEAT PUMP

208-230/460V



SIMPLE. SUSTAINABLE. CONNECTED.



From the makers of VRV

Daikin VRV EMERION is available in single and dual-module lineups. The introduction of new 16-20 T single modules allows a system capacity of up to 40 Tons with just two modules. This helps reduce the overall space required for mechanical equipment and optimizes total project costs.

Features and benefits

- » New Simple and Stylish design with expanded line up with single-module units from 6 – 20 T and dual-modules up to 40 T.
- » Space-saving 16 – 20 T single module units provide up to 30% footprint reduction compared to previous series².
- » High energy efficiency with IEERs up to 28.5
- » 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.
- » Year-round comfort and energy savings with Daikin's Variable Refrigerant Temperature technology (VRT), compared to standard VRF and previous VRV systems.
- » Increased piping lengths of up to 361 ft. vertical separation between ODU and IDU provide additional application flexibility compared to previous VRV systems¹.
- » Hot gas defrost circuit allows for installation without base pan heater.
- » Sealed e-box design with an ingress protection rating of IP55 provides for high dust and moisture protection.
- » Dual-fuel ready with connectivity to Daikin communicating gas furnace or all-electric heat pump heating for optimized operational costs based on utility rates.
- » 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.
- » Meets several local code compliance certifications such as OSHPD Seismic, Miami Dade Wind, and Chicago pressure relief codes.
- » Reduced wiring costs with up to 27.4% reduction in MCA values compared to previous series.
- » Engineered for ease of installation and service with three-segment panel design.
- » Enhanced installation and serviceability with increased space for easy field piping connections to service valves¹.
- » Simplified diagnosis with built-in data recorder which stores up to 40 minutes of operational data.
- » Integrates with new Daikin HERO ecosystem, an IoT-based remote monitoring and diagnostics platform.
- » Currently available for heat pump applications in 208/230V or 460V.
- » Compatible with Low Temperature (LT) hydrobox for VRV.

1 Refer to engineering and installation manuals for application rules.

2 Model specific; check product specification for details.



* Complete commercial warranty details available from your local distributor or manufacturer's representative or at www.daikincomfort.com or www.daikinac.com.

Stylish with a Purpose

Enhanced lineup

Daikin VRV EMERION is available in single and dual-module lineups. The introduction of new 16-20 T single modules allows a system capacity of up to 40 Tons with just two modules. This helps reduce the overall space required for mechanical equipment and optimizes total project costs.

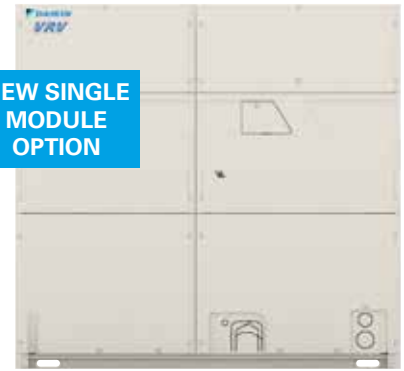
SINGLE MODULES



6 T - 36" Chassis



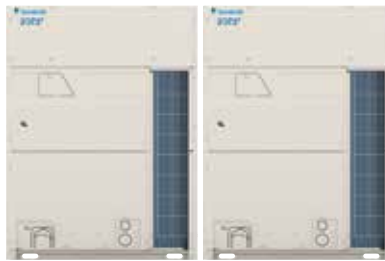
8 – 14 T - 48" Chassis



NEW SINGLE
MODULE
OPTION

16 – 20 T - 68" Chassis

DUAL MODULES



22 – 28 T



30 T

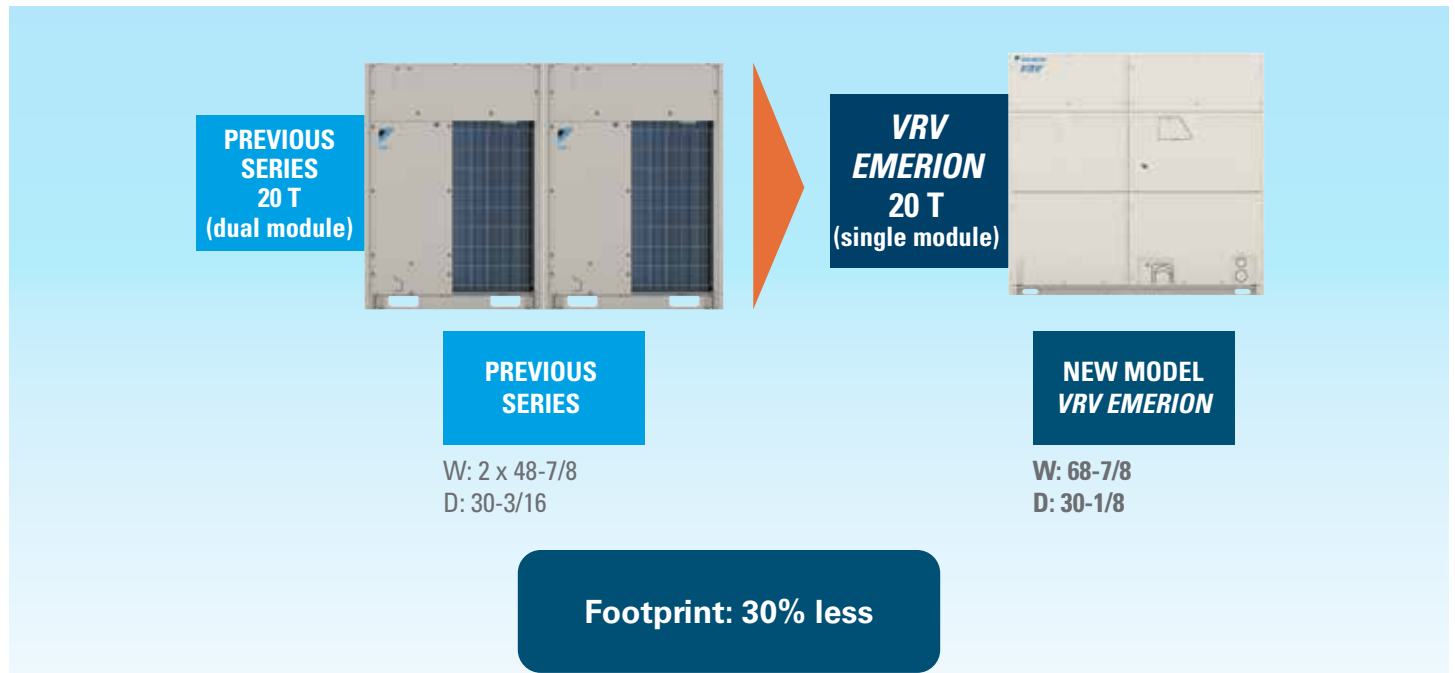


32 – 40 T

Simple, Yet Sophisticated

Elevate projects with design simplicity

VRV EMERION's new larger capacity single module units offer opportunities to reduce the space required for mechanical equipment and the number of electrical and piping connections. By leveraging Daikin's increased piping lengths, the new design allows up to 361 ft. (110 m) of vertical separation (equivalent up to approximately 30 floors). In addition, VRV EMERION's new expanded 361 ft. vertical separation opens opportunities to now address buildings up to 720 ft. (equivalent up to approximately 60 floors) when units are placed both on the roof and base of the building.



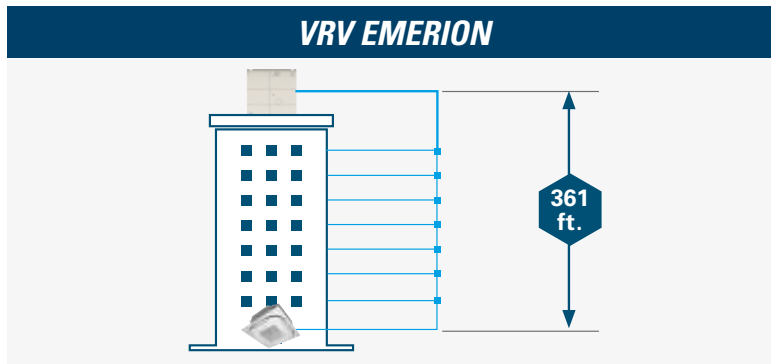
Up to 30% reduction in system footprint compared to similar capacity model as previous series.*

* Model specific; check product specification for details.

Return valuable leaseable space to building owners and living space to tenants



Longer vertical piping lengths

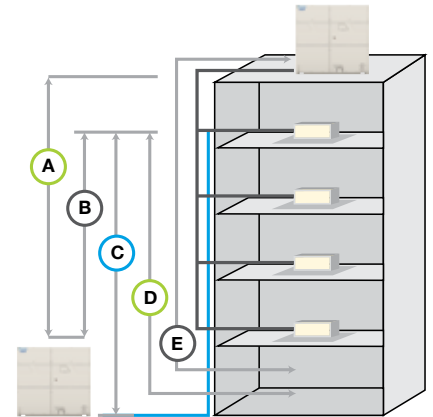


PIPING LIMITATIONS Liquid Line Max (ft.)		VRV EMERION Heat Recovery
(A)	Vertical Drop	164 (361) ¹
(B)	Vertical Rise	130 (361) ¹
(C)	Between IDU	100 (49) ³
(D)	From 1st Joint	130 (295) ²
(E)	Linear Length	540
	Total Network	3280

¹ Field setting changes and upsizing are required above 164 ft. (vertical drop) and 130 ft. (vertical rise). Refer to Installation Manual for details.

² Upsizing is required for extension up to 295 ft. Refer to Installation Manual for details.

³ Rules may apply above 49 ft.; refer to Installation Manual for details.



Hot Gas Defrost Technology

The Hot Gas Defrost circuit at the bottom of the heat exchanger eliminates the need for a base pan heater. This unique technology helps improve defrost, condensate disposal, and reduce ice accumulation at the bottom of the coil. This allows for reliable and efficient system operation year-round.



Inverter Board Cooled by Refrigerant Circuit.

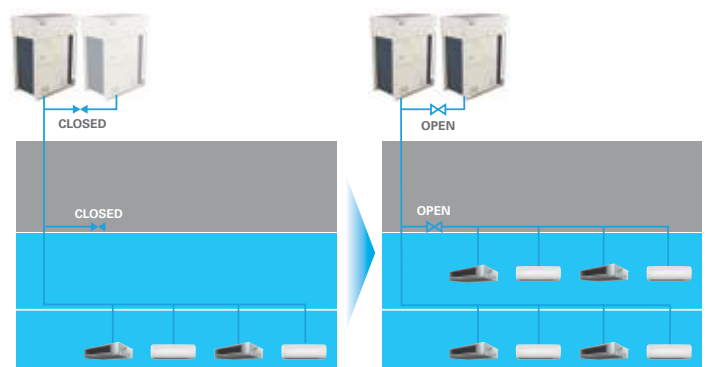
Minimum influence on electronics from ambient temperature. Section of the coil in the unit is permanently set as condenser for cooling of the inverter board.



Phased installation

VRV EMERION delivers enhanced design flexibility thanks to its ability to expand with the building's phased construction.

- » Expand the system without changes to main pipe sizes that are already installed.
- » Help reduce initial capital and design complexity compared to systems that do not offer phased installation.
- » Optimize piping design, branch selector boxes, and indoor units per phase of installation.



Design and Installation Flexibility

Engineered to create a truly unique experience for contractors, *VRV EMERION* offers a new and improved design to provide ease of service and maintenance making way for simplicity in installation.



SERVICE WINDOW:

- » For easy access to the multi-functional digital display for easy commissioning and troubleshooting.
- » Coating applied on printed circuit board for protection against dust and water.

REMOVABLE SECTION 3: MECHANICAL

- » Remove the bottom panel independently from the above two sections to directly access essential mechanical components, such as compressors, for ease of servicing.
- » Dedicated wiring and refrigerant knock-outs designed for quick access and ease of installation.

NEW P-TYPE COMPRESSOR

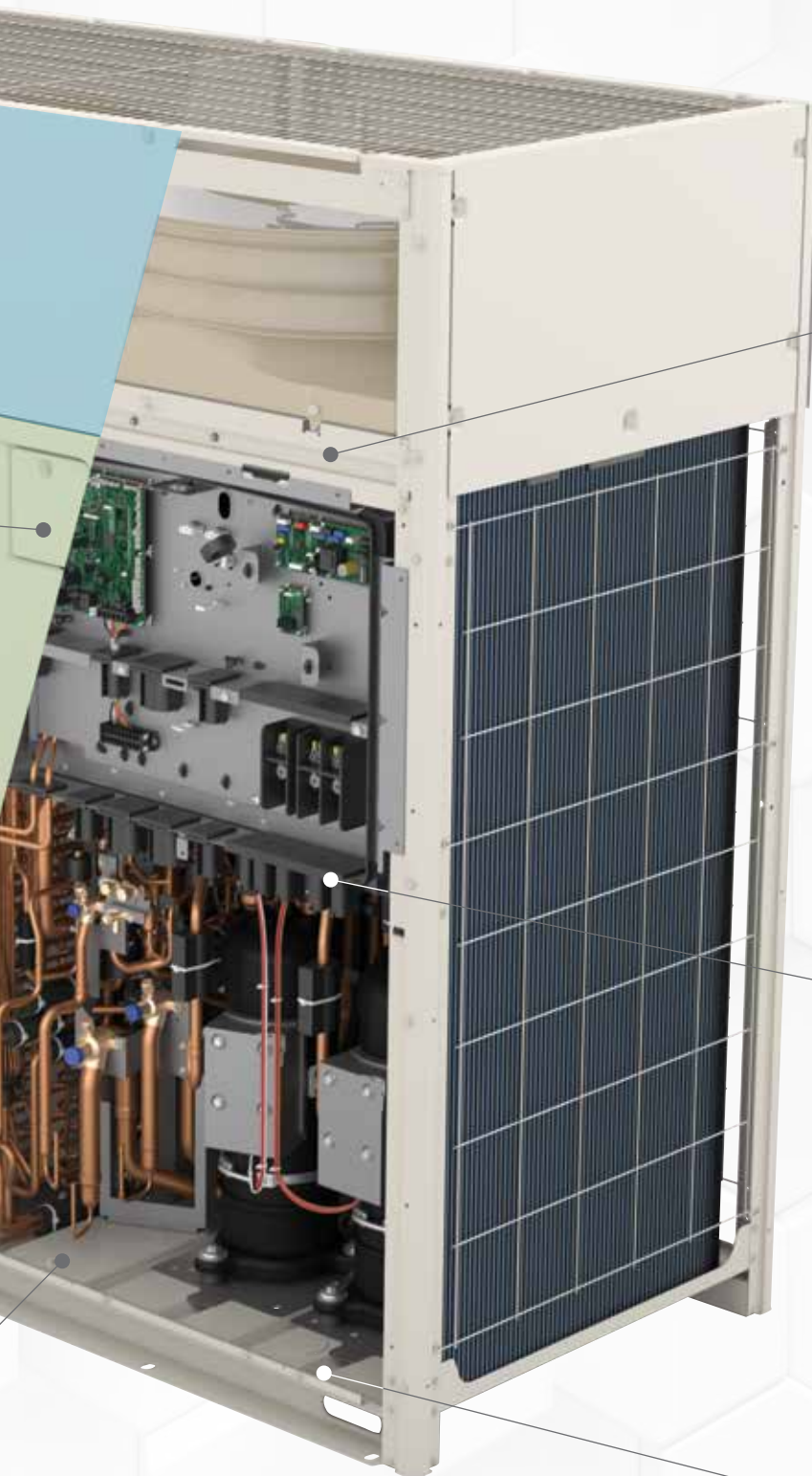


- » Compressor technology with spiral design and injection valves for precise refrigerant control.
- » Strong and efficient motors for optimized compressor performance and part load efficiencies.
- » Back pressure control mechanism optimizes the internal compressor pressure with the intermediate pressure adjusting port according to operating conditions. This stabilizes the orbiting scroll, reducing leaks and scroll friction during operation (compared to compressors without back pressure control).



Dedicated refrigerant connection knock-outs.






REMOVABLE SECTION 1: AIRFLOW

» Quick removal of top panel for outdoor fan servicing.

REMOVABLE SECTION 2: ELECTRICAL

- » Offers contractors quick access to electrical components.
- » Sealed e-box design with an ingress protection rating of IP55 provides for high dust and moisture protection.
- » Built-in data recorder to store up to 40 minutes of operational data.



Dedicated wiring knock-outs available for quick access.

TECHNICAL DATA FOR VRV EMERION - AATJA/AAAYDA HEAT PUMP OUTDOOR UNITS

		6 Ton	8 Ton	10 Ton	12 Ton	14 Ton	16 Ton	18 Ton	20 Ton	
Model	208-230V/3Ph/60Hz	RXYQ72AATJA	RXYQ96AATJA	RXYQ120AATJA	RXYQ144AATJA	RXYQ168AATJA	RXYQ192AATJA	RXYQ216AATJA	RXYQ240AATJA	
	460V/3Ph/60Hz	RXYQ72AAAYDA	RXYQ96AAAYDA	RXYQ120AAAYDA	RXYQ144AAAYDA	RXYQ168AAAYDA	RXYQ192AAAYDA	RXYQ216AAAYDA	RXYQ240AAAYDA	
	Combination									
Performance	Rated Cooling Capacity	BTU/h	69,000	92,000	114,000	138,000	160,000	184,000	206,000	228,000
	Rated Heating Capacity	BTU/h	77,000	103,000	126,000	154,000	180,000	206,000	232,000	248,000
	Operation Range Cooling	°F (°C) DB	23 – 122 (-5 – 50)							
	Operation Range Heating	°F (°C) WB	-13 – 60 (-25 – 15.6)							
	Sound Pressure	dB(A)	58	61	61	65	65	67	68	69
	Airflow	CFM	6200	8965	8965	9675	9675	13650	14505	14505
	Fan ESP, Standard/Max	in. W.G.	0.12 / 0.32							
Compressor	Compressors, all inverter	Qty	1	2						
	Revolutions per minute	RPM	4212	4482 + 4482	5934 + 5934	5496 + 5496	6684 + 6684	5586 + 5586	6294 + 6294	7272 + 7272
	Capacity Control Range	%	7-100	4-100	3-100	3-100	2-100	4-100	3-100	3-100
Refrigerant Piping, Layout	Maximum Vertical Pipe Length Above Unit	ft.	164 (361 With Field Setting)*							
	Maximum Vertical Pipe Length Below Unit	ft.	130 (361 With Field Setting)*							
	Maximum Vertical Pipe Length Between IDU	ft.	98							
	Maximum Actual Pipe Length	ft.	540							
	Maximum Equivalent Pipe Length	ft.	623							
	Maximum Total Pipe Length	ft.	3280							
Refrigerant Piping, Connections	Liquid Pipe, Main Line	in.	3/8	3/8	1/2	1/2	5/8	5/8	5/8	5/8
	Suction Gas Pipe, Main Line	in.	3/4	7/8	1-1/8	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8
Connection Ratio	Standard Connectable Indoor Unit Ratio	%	50 - 200 ¹							
	Maximum Number of Indoor Units	Qty	12	16	20	25	29	33	37	41
Electrical	Maximum Overcurrent Protection, MOP (208-230V / 460V)	A	30 / 15	35 / 20	40 / 20	50 / 25	60 / 30 (25 ²)	60 / 35 (30 ²)	70 / 35 (30 ²)	80 / 40
	Minimum Circuit Amps, MCA (208-230V / 460V)	A	27.3 / 12.4	34.1 / 16.4	36.5 / 16.6	47.8 / 21.3	54.9 / 24.9	59.8 / 28.3	67.2 / 29.9	73.7 / 33.4
	Compressor Rated Load Amps, (208-230V / 460V)	A	11.1 / 5.1	7.6 + 7.6 / 3.4 + 3.5	10.5 + 10.6 / 4.8 + 4.8	10.0 + 15.8 / 4.5 + 7.2	12.5 + 20.0 / 5.7 + 9.1	16.6 + 16.6 / 7.5 + 7.6	20.0 + 20.0 / 9.1 + 9.1	24.3 + 24.4 / 11.0 + 11.1
Unit	Factory Refrigerant Charge	lbs.	15.2	24.9	25.4	25.8	25.8	25.8	25.8	25.8
	Weight (208-230V / 460V)	lbs.	496 / 507	683 / 694	683 / 694	750 / 761	750 / 761	904 / 915	904 / 915	904 / 915
	Dimensions (H x W x D)	in.	65-3/8 x 36-5/8 x 30-1/8	65-3/8 x 48-13/16 x 30-1/8				65-3/8 x 68-7/8 x 30-1/8		

¹Varies based on indoor model selected ²UL 60335-2-40 calculated MOP values *Refer to engineering and installation manuals for rules and conditions

	22 Ton	24 Ton	26 Ton	28 Ton	30 Ton	32 Ton	34 Ton	36 Ton ²	38 Ton	40 Ton
	RXYQ264AATJA	RXYQ288AATJA	RXYQ312AATJA	RXYQ336AATJA	RXYQ360AATJA	RXYQ384AATJA	RXYQ408AATJA	RXYQ432AATJA	RXYQ456AATJA	RXYQ480AATJA
	RXYQ264AAYDA	RXYQ288AAYDA	RXYQ312AAYDA	RXYQ336AAYDA	RXYQ360AAYDA	RXYQ384AAYDA	RXYQ408AAYDA	RXYQ432AAYDA	RXYQ456AAYDA	RXYQ480AAYDA
	1 x RXYQ120AA 1 x RXYQ144AA	2 x RXYQ144AA	1 x RXYQ144AA 1 x RXYQ168AA	2 x RXYQ168AA	1 x RXYQ168AA 1 x RXYQ192AA	2 x RXYQ192AA	1 x RXYQ192AA 1 x RXYQ216AA	2 x RXYQ216AA	1 x RXYQ216AA 1 x RXYQ240AA	2 x RXYQ240AA
	252,000	274,000	296,000	320,000	342,000	364,000	388,000	410,000	434,000	456,000
	282,000	294,000	320,000	338,000	376,000	386,000	394,000	404,000	414,000	424,000
	23 – 122 (-5 – 50)									
	-13 – 60 (-25 – 15.6)									
	67	69	69	69	70	71	71	72	72	73
	8965 + 9935	9935 + 9935	9935 + 9935	9935 + 9935	9935 + 13665	13665 + 13665	13665 + 14510	14510 + 14510	14510 + 14510	14510 + 14510
	0.12 / 0.32									
	2 + 2									
	(5934 + 5934) + (5496 + 5496)	(5496 + 5496) + (5496 + 5496)	(5496 + 5496) + (6684 + 6684)	(6684 + 6684) + (6684 + 6684)	(6684 + 6684) + (5586 + 5586)	(5586 + 5586) + (5586 + 5586)	(5586 + 5586) + (6294 + 6294)	(6294 + 6294) + (6294 + 6294)	(6294 + 6294) + (7272 + 7272)	(7272 + 7272) + (7272 + 7272)
	1-100	1-100	1-100	1-100	1-100	1-100	1-100	1-100	1-100	1-100
	164 (361 With Field Setting)*									
	130 (361 With Field Setting)*									
	98									
	540									
	623									
	3280									
	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	1-3/8	1-3/8	1-3/8	1-3/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8
	50 - 200'									
	45	49	54	58	62	64				
	40 + 50 / 20 + 25	50 + 50 / 25 + 25	50 + 60 / 25 + 30 (25 + 25 ²)	60 + 60 / 30 + 30 (25 ² + 25 ²)	60 + 60 / 30 + 35 (25 ² + 30 ²)	60 + 60 / 35 + 35 (30 ² + 30 ²)	60 + 70 / 35 + 35 (30 ² + 30 ²)	70 + 70 / 35 + 35 (30 ² + 30 ²)	70 + 80 / 35 + 40 (30 ² + 40)	80 + 80 / 40 + 40
	36.5 + 47.8 / 16.6 + 21.3	47.8 + 47.8 / 21.3 + 21.3	47.8 + 54.9 / 21.3 + 24.9	54.9 + 54.9 / 24.9 + 24.9	54.9 + 59.8 / 24.9 + 28.3	59.8 + 59.8 / 28.3 + 28.3	59.8 + 67.2 / 28.3 + 29.9	67.2 + 67.2 / 29.9 + 29.9	67.2 + 73.7 / 29.9 + 33.4	73.7 + 73.7 / 33.4 + 33.4
	(10.5 + 10.6) + (10.0 + 15.8) / (4.8 + 4.8) + (4.5 + 7.2)	(10.0 + 15.8) + (10.0 + 15.8) / (4.5 + 7.2) + (4.5 + 7.2)	(10.0 + 15.8) + (12.5 + 20.0) / (4.5 + 7.2) + (5.7 + 9.1)	(12.5 + 20.0) + (12.5 + 20.0) / (5.7 + 9.1) + (5.7 + 9.1)	(12.5 + 20.0) + (16.6 + 16.6) / (5.7 + 9.1) + (7.5 + 7.6)	(16.6 + 16.6) + (16.6 + 16.6) / (7.5 + 7.6) + (7.5 + 7.6)	(16.6 + 16.6) + (20.0 + 20.0) / (7.5 + 7.6) + (9.1 + 9.1)	(20.0 + 20.0) + (20.0 + 20.0) / (9.1 + 9.1) + (9.1 + 9.1)	(20.0 + 20.0) + (24.3 + 24.4) / (9.1 + 9.1) + (11.0 + 11.1)	(24.3 + 24.4) + (24.3 + 24.4) / (11.0 + 11.1) + (11.0 + 11.1)
	25.4 + 25.8	25.8 + 25.8	25.8 + 25.8	25.8 + 25.8	25.8 + 25.8	25.8 + 25.8	25.8 + 25.8	25.8 + 25.8	25.8 + 25.8	25.8 + 25.8
	683 + 750/ 694 + 761	750 + 750/ 761 + 761	750 + 750/ 761 + 761	750 + 750/ 761 + 761	750 + 904 / 761 + 915	904 + 904 / 915 + 915				
	(65-3/8 x 48-13/16 x 30-1/8) + (65-3/8 x 48-13/16 x 30-1/8)				(65-3/8 x 48-13/16 x 30-1/8) + (65-3/8 x 68-7/8 x 30-1/8)		(65-3/8 x 68-7/8 x 30-1/8) + (65-3/8 x 68-7/8 x 30-1/8)			

Connect. Control. Monitor.

Expand possibilities with connectivity

VRV EMERION offers connectivity to an ever-expanding offering of controls, ventilation, and indoor units.



INDOOR UNIT TYPE	MBH TONS	CAPACITY																
		5.8	7.5	09	12	15	18	24	30	36	42	48	54	60	72	96		
		0.5	0.6	0.75	1	1.25	1.5	2	2.5	3	3.5	4	4.5	5				
DUCTED	FXMQ_TBVCU HSP DC Concealed Ducted Unit (High Static)			▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲			
	FXSQ_TBVCU MSP Concealed Ducted Unit (Medium Static)		▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲				
	FXDQ_MVCU LSP Slim Concealed Ducted Unit (Low Static)			▲	▲	▲		▲	▲									
	FXTQ_TAVJU Multi-Position Air Handling Unit (Upflow, Downflow, Horizontal Left and Horizontal Right)				▲	▲		▲	▲	▲	▲	▲	▲	▲	▲			
	HSP High Capacity Concealed Ducted Unit																▲	▲
	FXNQ_MVCU9 Concealed Floor-Standing Unit			▲	▲	▲		▲	▲									
DUCT-FREE	FXFQ_TVJU Round Flow Sensing Cassette, Ceiling Mounted	 		▲	▲	▲	▲	▲	▲	▲	▲		▲					
	FXUQ_PVCU 4-Way Blow Ceiling-Suspended Cassette							▲	▲	▲	▲							
	FXZQ_TAVJU VISTA 2x2 Ceiling Mounted Cassette		▲	▲	▲	▲	▲	▲										
	FXEQ_PVCU Ceiling-Mounted Cassette (Single Flow)			▲	▲	▲	▲	▲	▲									
	FXHQ_MVCU Ceiling-Suspended Unit					▲			▲		▲							
	FXAQ_PVCU Wall-Mounted Unit			▲	▲	▲		▲	▲									
	FXLQ_MVCU9 Floor-Standing Unit			▲	▲	▲		▲	▲									

▲ Comfort cooling/heating Condensate pump standard Outside air connection possible

DZK (Daikin Zoning Kit)



The optional DZK increases the flexibility of the Daikin VRV and SkyAir systems in both residential and commercial applications by adding a Zoning Box to an indoor unit fan coil, allowing several separate ducts to supply air to different individually controlled zones. The DZK BACnet™ Interface module will work with any BACnet™/JIP compatible Building Management System.

DZK Zoning Box for
FXMQ_PB and
FXSQ indoor units



DZK Wired, Wireless,
and Wireless Lite
thermostat options



Dual Fuel with Gas Furnace Connectivity

Expanding *VRV* into applications that were limited to gas-based heating, *VRV EMERION* is a 3-phase dual-fuel VRF system that integrates with communicating gas furnaces. *VRV EMERION* offers outstanding design flexibility when connected to Daikin communicating 80%, 96%, and 97% AFUE gas furnaces and CXTQ coils. The new *VRV EMERION* enables the use of *VRV* technology to provide utility cost-based heating solutions. With the flexibility to switch between electric heat pump heating and gas heating, operational costs can be optimized to building owner's choice for a heating source.

- » Space-saving with ability to connect multiple gas furnaces to one outdoor unit with 14 selectable settings.
- » Customizable changeover temperatures to switch from heat pump to gas heat.
- » Ability to provide system-wide heating independent of outdoor ambient temperature.



Applied AHU & FCU Connectivity

Connect non standard *VRV* terminal units and AHUs with Daikin *VRV EMERION* leveraging Daikin Air Handling Unit Integration Kit to extend benefits of inverter technology to custom terminal units and AHUs. A kit consists of One Control Box and One EEV box. Offered via EKEQMCBAV3-US and EKEQFCBAV3-US.

EKEQMCBAV3 - Control Box

For use with both Daikin *VRV* indoor units and custom air handling units

- » Discharge air control is offered by EKEQFCBAV3-US (W-control). Not MCBV3 (Z-control)
- » Seamless integration of non-*VRV* air handling units with *VRV IV* HP and HR systems
- » Enables control of the AHU as a *VRV* Indoor unit when integrated with a Daikin remote control
- » Connect other *VRV* indoor units along with the AHU to the condensing units
- » Provides remote ON/OFF option when integrated with optional KRP4A71 board
- » Designed for both indoor and outdoor installations



LOCALIZED CONTROLS



Daikin *One+* Smart Thermostat

The Daikin *One+* smart thermostat can control VRV systems with the expansion of apps and programmable technology. The Daikin *One+* is a cloud-connected hub of sophistication, designed for controlling temperature, humidity, and air quality. Control your air remotely, all the time, with this intelligent HVAC thermostat from Daikin.



Navigation Remote Controller

The *Navigation* Remote Controller has been enhanced to meet the configuration requirements of Daikin's VRV indoor units. The *Navigation* Remote Controller provides all the great features and options the market requires. The configurable display and operation buttons will provide as much or as little control as the project requires.



Daikin *Madoka* Remote Controller

The *Madoka* Remote Controller is a redesigned controller that retains the advanced functions for indoor unit control. The *Madoka* features a sleek and stylish design with an intuitive interface including touch button control. It can be commissioned and managed with ease through a Bluetooth® configuration app or via the onboard menus.



Daikin DKN Plus Interface

The new Daikin DKN Plus Interface enables the energy-efficient control of Daikin air conditioners by a third-party thermostat or an automation system. With this interface, third-party devices or systems can control the VRV, *SkyAir*, Single Zone and Multi-Zone indoor units through the DKN NA App, Cloud API, Modbus®, BACnet™ MS/TP, or thermostat relay contacts.



Daikin DKN Cloud Wi-Fi Adaptor

The DKN Cloud Wi-Fi Adaptor enables the remote control of your Daikin indoor units through an iOS/Android App. With the app, the DKN Cloud Wi-Fi Adaptor provides remote control and monitoring of indoor units' ON/OFF, mode, set-point, fan speed, louver position, room temperature, and error alert status from an iOS/Android smartphone.



Daikin *Adaptive Touch Controller (ATC)*

The *ATC* is used to control VRV, *SkyAir*, Single and Multi-Zone systems (P1P2) with advanced and configurable control logic. The *ATC* comes in 4 different models with a built-in temperature sensor, humidity sensor, CO₂ sensor, and occupancy sensor. The *ATC* will also provide analog input, analog output, digital input, and digital output terminals to monitor auxiliary sensors and control auxiliary equipment. The built-in sensors can be combined with advanced logic to create actionable tasks based upon the sensor values. The *ATC* controller can be integrated with a compatible building management system (BMS) using BACnet™ MS/TP.

Connect. Control. Monitor. *(Cont'd)*

CENTRALIZED CONTROLLER



Daikin *intelligent Touch Manager (iTM)*



The *intelligent Touch Manager (iTM)* is an advanced multi-zone controller that controls and monitors the Daikin *VRV* system. The *iTM* can also provide a cost-effective mini Building Management System (BMS) solution to integrate and control third party devices through option a software and hardware. If a BMS exists, the *iTM* can be used as a BACnet™ gateway interface for BMS integration with the *iTM BACnet Server Gateway* option.

REMOTE MONITORING



Daikin *HERO Ecosystem*

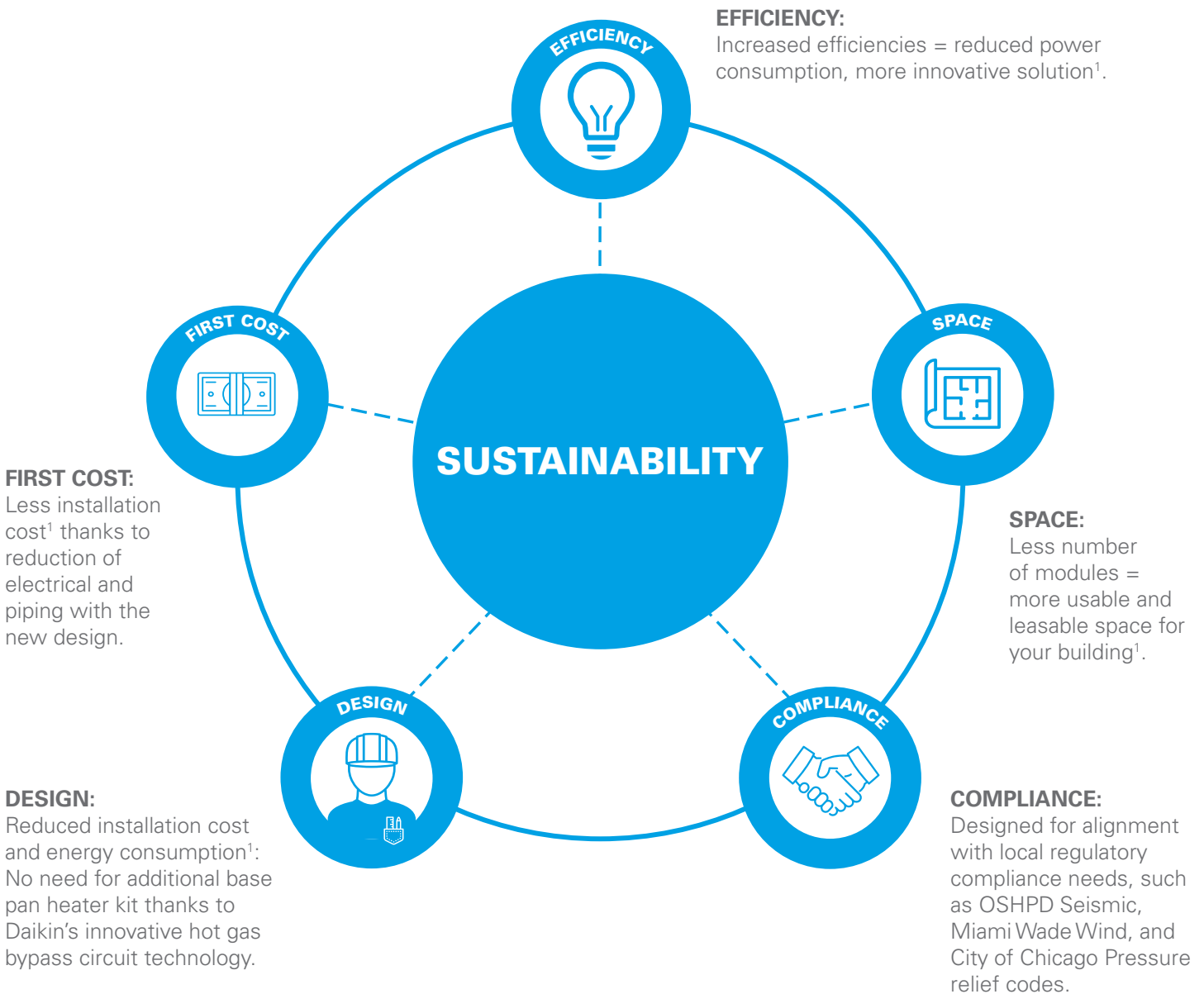
- » Remote monitoring to help manage and diagnose system performance and provide predictive logic.
- » Visualize system performance through the integrated dashboard (web-based access from phone, laptop, and tablet).
- » Streamline service and maintenance for projects.
- » Built-in Verizon® SIM card for cellular communication.

Daikin *HERO*
Simple Edge

VISUALIZE SYSTEM OPERATION	REMOTE MONITORING	FAILURE PREDICTION	ENVIRONMENTAL PROTECTION
<ul style="list-style-type: none"> » Visualize system energy consumption » System errors 	<ul style="list-style-type: none"> » Multi-site » Eliminate unnecessary truck rolls » Access system details 24/7 	<ul style="list-style-type: none"> » Compressor » Sensors 	<ul style="list-style-type: none"> » Refrigerant leakage predicting logic » Energy tuning optimizes ODU operation based upon ambient temperature

"LOGIC will get you from A to B. IMAGINATION will take you EVERYWHERE."

— ALBERT EINSTEIN



¹ Compared to previous series

Refer to engineering and installation manuals for specific models and application rules

Delivering Sustainable Solutions to build a Sustainable society

We believe our mission is to provide comfortable air environments for people around the world while developing products that utilize inverters and lower global warming potential refrigerants (as compared to refrigerants currently in use). We measure our contribution to reducing greenhouse gas emissions based on the distribution of products utilizing inverters and lower global warming potential refrigerants (as compared to refrigerants currently in use). Daikin reduced greenhouse gas by 68 million tons of CO₂ globally, representing a reduction of greenhouse gas emissions of 76% from fiscal 2006 levels. *VRV EMERION* is engineered to provide an all-electric heat pump solution with heating down to -13°F (-25°C) as standard. In addition to high heating capabilities, additional benefits listed below make *VRV EMERION* an ideal choice of commercial HVAC for owners, architects, engineers, and contractors aiming towards sustainable buildings.

- » Inverter technology-driven high efficiencies.
- » Increased piping and design flexibility¹.
- » Simple and space-saving compact design.
- » Three-panel design for easy installation, maintenance, and service.
- » Reduced electrical requirements¹.
- » Reliable IoT-based remote monitoring and predictive operation.

¹ Compared to previous series

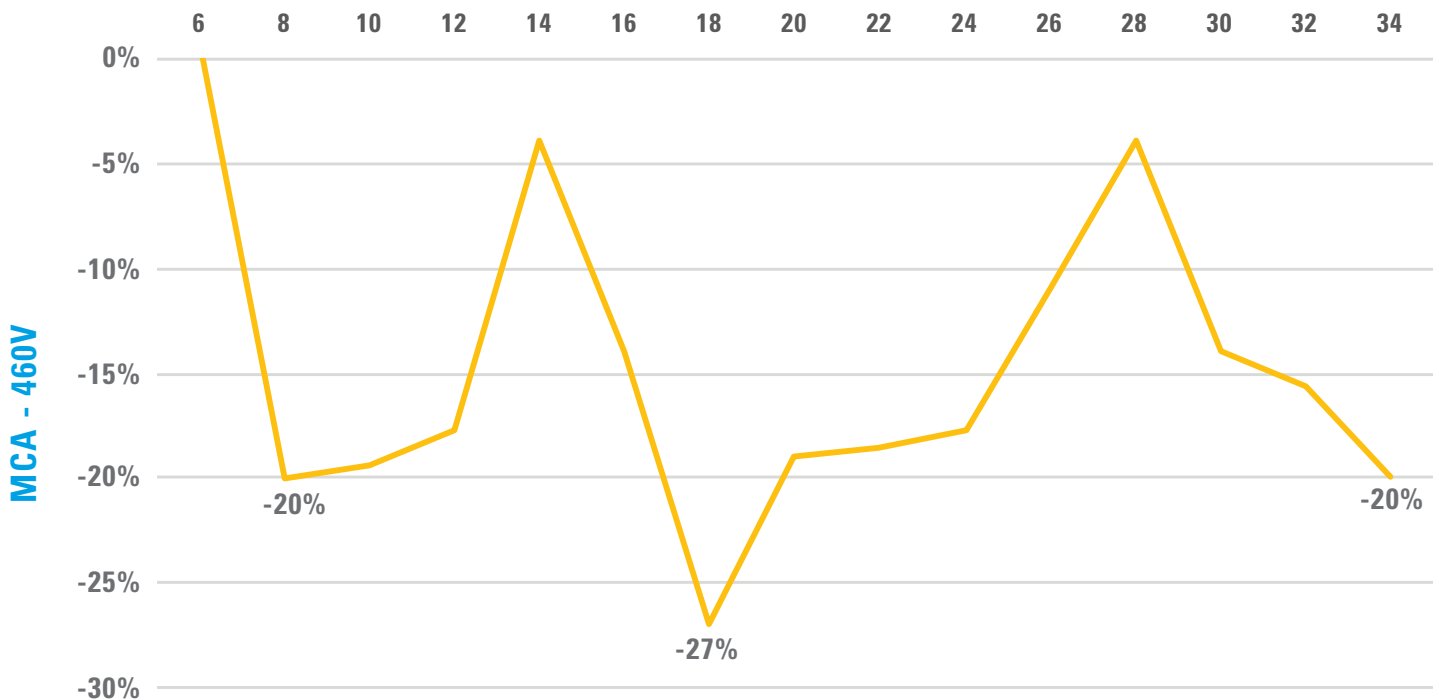


Reduced Equipment and Installation Costs*

VRV EMERION returns valuable, leasable, livable space to building owners and tenants thanks to the compact modular design. Because overall costs are a critical piece of every project, we've designed the VRV EMERION from the ground up to help drive additional cost savings to your projects. For example, with a reduced number of installed modules, a reduction of electrical and piping connections (compared to previous generations of VRV) is possible.



Reduced Electrical*



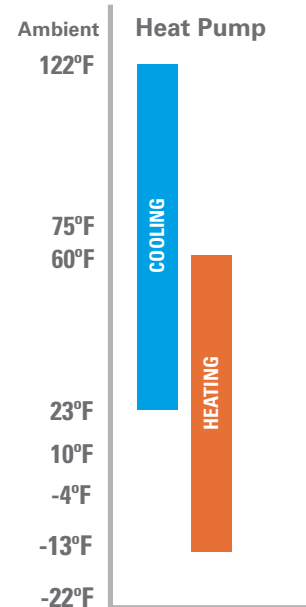
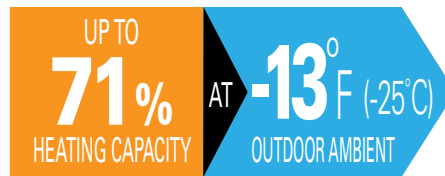
Graph is for indicative purposes, refer to engineering manual for details on MCA and MOP values. With up to 27.5%* reduction in MCA values, VRV EMERION offers an opportunity to reduce overall electrical installation costs.

*Compared to previous VRV IV X models.

Reliability and efficiency

Reliable operation year-round

An all electric heat pump, *VRV EMERION* offers high performance in wider range of operating conditions. Systems are engineered to deliver reliable Heating from -13°F to 60°F and Cooling from 23°F to 122°F.















In addition to its wide range of operation, *VRV EMERION* is equipped with advanced features such as a hot gas defrost circuit which offer reliable heating operation without a base pan heater. This also helps reduce installation cost and energy consumption.



Tools for Success

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.

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, iDMS etc.)	Daikin e Quip 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															●	●	●

About Daikin:

Daikin Industries, Ltd. (DIL) is a global Fortune 1000 company which celebrated its 95th anniversary in May 2019. The company is recognized as the leading HVAC (Heating, Ventilation, Air Conditioning) manufacturer in the world. 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.

To learn more, visit:
www.vrvemerion.com

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.

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

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