









Table of Contents

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A history of industry-leading product innovation

Becoming a global leader in any industry takes more than just time. For over 90 years Daikin has shown that it takes industry-leading product innovation and a commitment to excellence in order to climb to the top. This commitment led Daikin to develop the first Variable Refrigerant Volume (*VRV*) system in 1982 and to become a pioneer with our Variable Refrigerant Volume systems.

Daikin's 3 core technologies

Daikin is an industry-leading HVAC technology company. We develop state-of-the-art technology that provides indoor comfort solutions for our customers. We do this by focusing on 3 core technologies. Our refrigerant control technology provides an efficient and effective way to transport heat. Daikin inverter technology allows us to maximize energy efficiency and heat pump technology provides an effective method for moving refrigerant.

Inverter Contributes to greater energy savings and comfort Absorbs or removes heat from the air

The total solution

Daikin's products and controls are designed to provide a flexible, scalable, total indoor comfort solution. We are committed to supporting our customers at every phase of the project to ensure that the highest quality and most cost effective solution is the one that is provided. From project conception throughout the life of an HVAC system, Daikin provides world class products and support. A single source and total solution for your HVAC requirements.









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 4 basic "Building Blocks" — Outdoor Unit, Indoor Unit, Piping, and Controls — 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.





Why choose Daikin VRV?

Inventor and leader in VRV systems since 1982

Unique products that make the difference

» In efficiency

- Variable Refrigerant Temperature (VRT) technology leading to excellent energy efficiency
- Indoor units with advanced sensing technology and optional self-cleaning air filter panel

» In comfort

- Variable Refrigerant Temperature technology preventing cold droughts
- 13 different indoor unit types and 81 models
- Low sound indoor and outdoor units

» In aesthetics

- Stylish cassettes integrated in the ceiling
- Ceiling suspended cassettes
- Elegant wall mounted units

» In installation

- Automatic refrigerant charge function
- Self-addressing control system after installation
- VRV Configurator for simplified and time saving commissioning
- Flexible connection possibilities for indoor and outdoor units

» In control

- intelligent Touch Manager™ (iTM)— a mini-BMS/Centralized Controller that integrates all units in a cost-efficient system
- Easy integrating with third party BMS
- Dedicated control solutions for applications such as offices, shops, hotels, schools, etc.

» In system design

- User friendly sizing and selection software
- CAD drawings and Revit* families
- Comprehensive engineering manuals

» In after market support

- Nationwide field support organization
- 50+ product training facilities in North America
- Dedicated tech support team

» In reliability

- Refrigerant-cooled electronics in outdoor unit
- Extensive testing before new units leave the factory
- Spare parts available in the US
- ISO 9001 compliant manufacturing
- One of the best warranties** in the industry
- * Visit bim.daikincity.com for Revit families
- ** Complete warranty details available from your local Daikin manufacturer's representative or distributor or online at www.daikincomfort.com or www.daikinac.com.



Which VRV System Offers the Best Solution?

Air-cooled or water-cooled?

Air-cooled

- » Fast and easy to install no need for additional components
- » Low maintenance costs
- » Can be installed both outdoors and indoors
- » Up to 38 tons capacity for one system

Components:



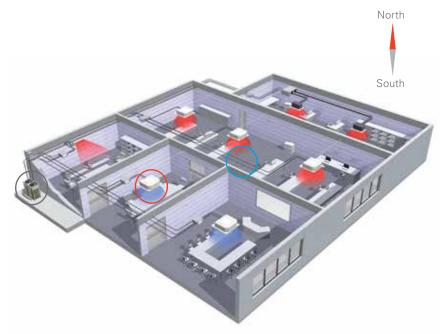




Indoor unit



Refrigerant piping



Water-cooled

- » Suitable for multi-story and large buildings because of the almost unlimited possibilities of water piping
- » Not affected by outdoor temperature/climate conditions
- » Reduce CO₂ emissions thanks to the possibility of geothermal energy as a renewable energy source

Components:



Condensing unit



Indoor unit



Refrigerant piping



(Geothermal) water loop



Heat Recovery or Heat Pump?

VRV Heat Recovery



Extracted heat from one room/zone delivers heat to another room/zone



» Simultaneous heating AND cooling from one system

» Efficient heating by transferring heat rejected by cooling zones to those requiring heating.

» Maximum individual comfort in all areas

Components:



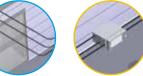
Outdoor unit



Indoor unit



3-pipe refrigerant piping



Single and multi Branch Selector boxes: allows the individual switching of indoor units between heating and cooling



VRV Heat Pump

» For either heating OR cooling operation from one system

Components:



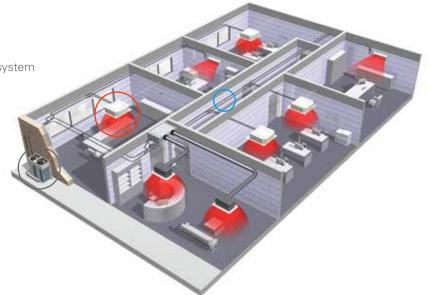
Outdoor unit



Indoor unit



2-pipe refrigerant piping



Setting the Standards

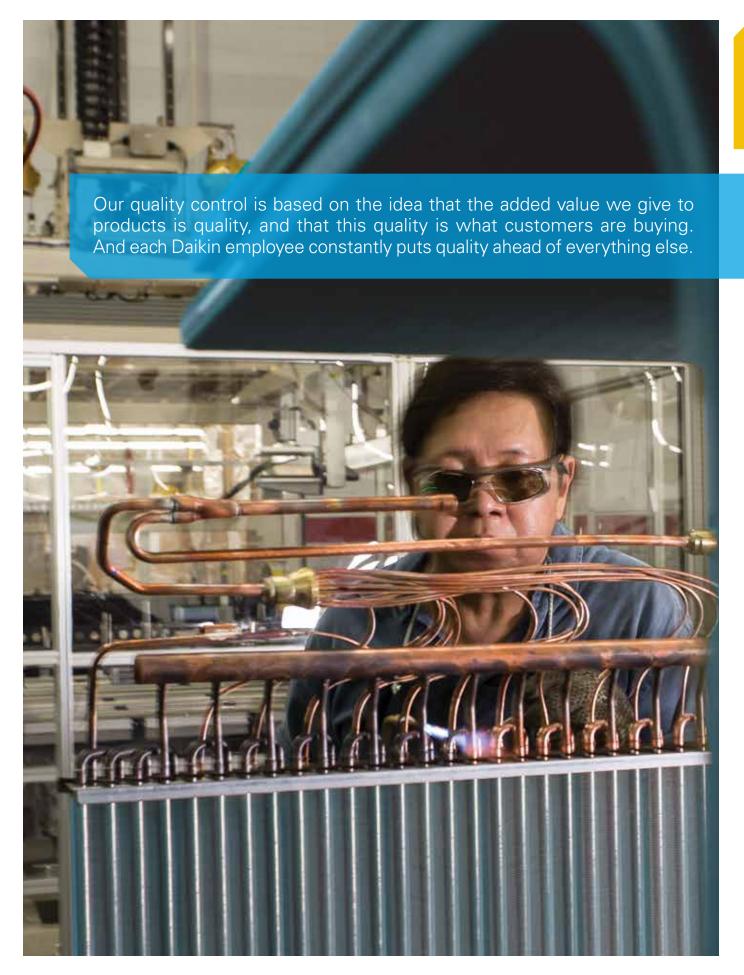
Over 30 years of VRV history

Daikin invented the first *VRV* system in 1982 and has continued to set standards in the industry and heighten market expectations. Many of the current market expectations are:

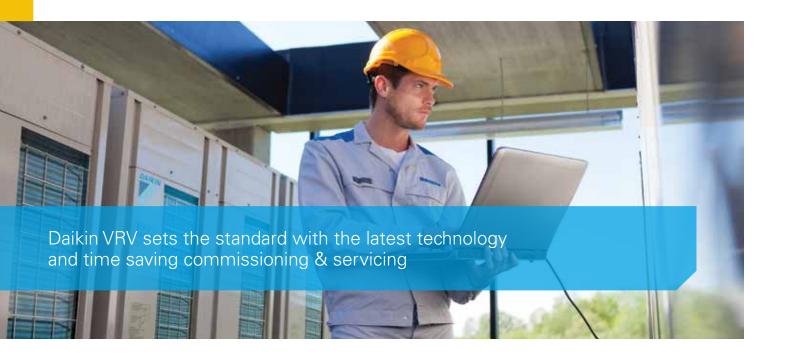
- » Energy efficient inverter compressor
- » Modular system concept
- » Heat recovery function
- » Allow long piping lengths
- » Heating operation down to -13°F ambient air temperature as standard
- » Continuous heat during defrost
- » Auto charge at start up

VRV was invented in 1982 as a result of the oil crisis around the world in the 70's. Energy efficiency laws were passed by the Japanese government. The Japanese government and Daikin worked closely together — they looked at a chiller system; pumps, and air handlers as well and how the pump circulates water and how it uses a lot of power. So, they came up with a concept to use refrigerant instead of water to circulate as a heat transfer medium. The first VRV heat recovery system was launched in 1991 implementing the landmark concept of a heat pump chiller that circulates refrigerant instead of water.





Setting the Standards, Again



Optimized life cycle cost

The features of a Daikin *VRV* system, energy efficient and easy to design, install, and maintain, means that it is designed to reduce the total life cycle cost.



Optimized for the North American market needs

Engineered and assembled in North America Daikin's VRV IV X adapts *VRV* to North American HVAC market needs by expanding the applications in which *VRV* can be leveraged to solve traditional challenges. Packed with advanced technology, VRV IV X is the industry's first 3-phase variable refrigerant flow system with dual-fuel capability, after Daikin's launch of 1-phase *VRV* LIFETM in 2018. The new series is equipped with features to optimize initial capital required on phased installations and provides ease of service and maintenance.

VRV Heat Pump and Heat Recovery - Single, dual, and triple modules



VRV IV X - Adapting VRV to North American market needs

Gas Furnace Connectivity

Expanding VRV into applications that were limited to gas-based heating, VRV IV X is the first 3-phase dual-fuel variable refrigerant flow system in North America that integrates with communicating gas furnaces.

VRV IV X offers outstanding design flexibility when connected to Daikin communicating 80%, 96%, and 97% AFUE gas furnaces and CXTQ coils. The new VRV IV X 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.

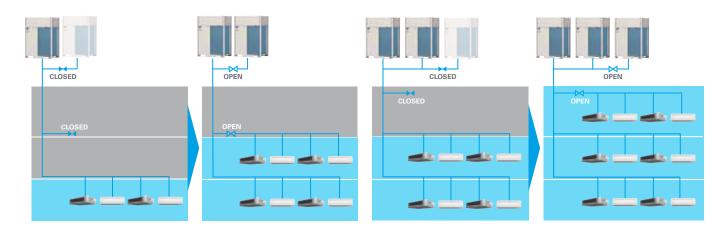
- » Space-saving with ability to connect multiple gas furnaces to one outdoor unit with 14 selectable settings.
- » Customizable changeover temperatures to switch from heat pump to gas heat.
- » Ability to provide system-wide heating independent of outdoor ambient temperature.



Phased Installation

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

- » Expand the system from a single to a dual module or from dual to triple module 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.



Setting the Standards, Again (cont.)



VRT (Variable Refrigerant Temperature) — State-of-the-art energy-saving technology for *VRV*

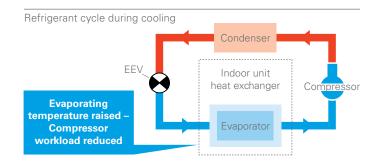
Adaptive and learning VRT

The new VRV IV X system features a newly enhanced learning VRT technology. The new learning VRT technology, in addition to helping with annual energy efficiency and maintaining comfort, provides features that enable time-based learning to adjust cooling and heating capacities to provide a stable capacity to the indoor units. The feature must be activated through field setting changes.

How is energy reduced?

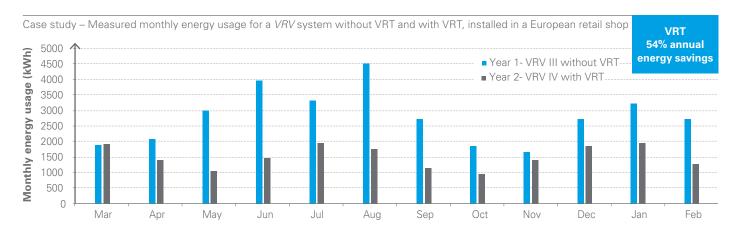
A standard variable refrigerant flow system and previous Daikin *VRV* systems utilize a capacity based control logic where the system will adjust to meet the capacity requirements of the space. With VRT, Daikin has optimized focus not only on capacity but also on efficiency and comfort.

According to changes in the room's heat load and the ambient air temperature, the evaporating temperature (in cooling)



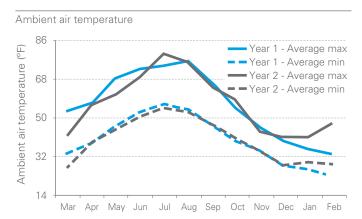
and condensing temperature (in heating) are automatically adjusted to minimize the difference with the condensing temperature and the evaporation temperature, respectively.

This makes the compressors work less and also enables the system to always maintain the ideal compressor speed so that the Daikin *VRV* system can deliver the optimum efficiency.



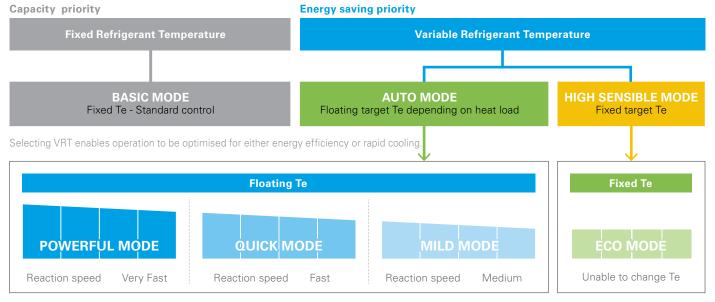
Heating degree days and cooling degree days, that are quantitative indications reflecting demand for energy to heat or cool buildings, were the same for year 1 and year 2.

The basis to determine whether a specific day is a heating degree day or a cooling degree day is the daily average ambient air temperature. Even the average min/max ambient air temperature were very similar for year 1 and year 2.



Fine control to match user preference available through mode selection

Basic mode is selected to maintain optimal comfort. VRT is selected to save energy and prevent excessive 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.



Setting the Standards, Again (cont.)

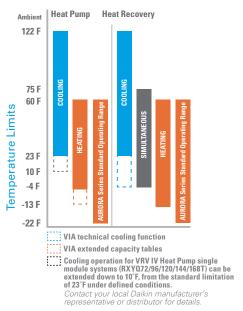
Extended Operation Range — Heating operation down to -22° F* outdoor temperature and cooling operation down to -4° F*

Daikin VRV systems can provide heating inside the building even when the outside air temperature is as low as -22° F* as standard. This enables enhanced application flexibility and use of the system in colder regions.

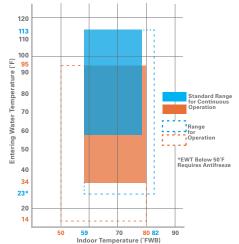
*varies based on outdoor unit type

Temperature Limits

VRV Air-Cooled



VRV T-Series Water-Cooled



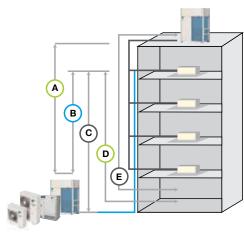
*Limited to 27° F (for the PC series)

Piping flexibility — More options for installation location

Daikin VRV provides very flexible piping possibilities. These generous allowances outlined in the figure facilitate an extensive variety of system designs.

- » 100 ft. maximum vertical difference between indoor units provides greater flexibility for riser type piping layouts.
- » Allows for up to 12 floors to be served from a single VRV System
- » Ideal for mid- to high-rise chiller or WSHP replacement projects

Refrigerant Piping Limitations



	0-050							
	PIPING			AIR-COOLED			WATER	-COOLED
	MITATIONS .iquid Line Max (ft)	VRV-IV Heat Pump	VRV-IV / X Heat Recovery	AURORA™	VRV IV-S (3 Ton)	VRV IV-S (4 & 5 Ton)	VRV IV-W PC-Series	VRV T-Series
A	Vertical Drop	164 (295) ¹	164 (295) ¹	164 (295) ¹	98	98	164	164
B	Between IDU	100	100 (49) ³	100 (49) ³	33	49	49	98
©	Vertical Rise	130 (295) ¹	130 (195) ¹	130 (295) ¹	98	98	130	130
0	From 1st Joint	130 (295) ²	130 (295) ²	130 (295) ²	130	130	130	130 (295) ²
E	Linear Length	540	540	540	164	230	390	540
	Total Network	3280	3280	1640	820	984	980	980

Setting adjustment on condensing unit required.
Application rules apply. Refer to Installation Manual for further details.

³Possible refrigerant noise can be mitigated (via setting adjustments on ODU) when linear length exceeds 390 ft

Improved connection ratio flexibility

To properly match outdoor units with indoor units, *VRV* system designers calculate the connection ratio.

If a system has more combined indoor unit capacity index than combined outdoor unit capacity index, the result is a combination ratio that is greater than 100%. If the outdoor unit combined capacity index is higher than the index for indoor units, the combination ratio is less than 100%.

Most Variable refrigerant flow system systems do not allow the combination ratio to be more than 130%. However, due to the advanced design of the Daikin VRV IV system, the connection ratio is in most cases allowed to be up to 200%.

This generous connection ratio range enables increased flexibility when a *VRV* system is designed.

Connection ratio 50%-200%*

Connection ratio =

Total capacity index of the **indoor units**

Total capacity index of the **outdoor units**

Conditions of VRV indoor unit connection capacity

APPLICABLE VRV INDOOR UNITS	FXDQ, FXSQ_T, FXMQ_P, FXAQ			OTHER <i>VRV</i> INDOOR UNIT MODELS	FXFQ07T, FXFQ09T FXSQ05T, FXZQ05T
Single outdoor units				200%	180%
Double outdoor units		200%		160%	160%
Triple outdoor units				130%	130%

^{*} Connection ratio limitations vary based on outdoor unit and indoor unit models



Setting the Standards, Again (cont.)

Advantages of 3-pipe technology

Daikin 3-pipe technology used in heat recovery systems has dedicated refrigerant pipes for suction gas, liquid and discharge gas. The dedicated refrigerant pipes provide smooth and efficient refrigerant flow during all main modes of operation and aid with the heating performance of the system

In a 2-pipe heat recovery system, where the gas and liquid travel as a mixture in the refrigerant pipes, the condensing temperature needs to be higher in order to separate the mixed gas and refrigerant. The higher condensing temperature that is needed means that the compressor has to work harder. In addition, the disturbed refrigerant flow in large pipes on 2-pipe system results in extra pressure drop which can negatively impact the system capacity and efficiency.

Branch selector boxes for ultimate flexibility

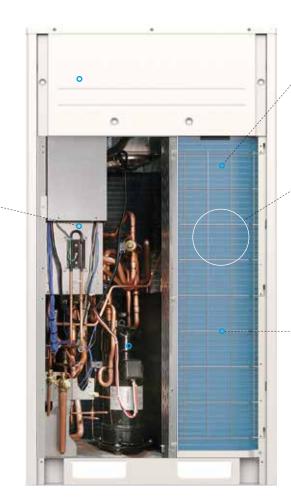
Providing flexibility and minimizing mechanical and electrical installation costs, Daikin's branch selector boxes are ideal for spaces that require individual heating and cooling control.

- » Extended range of product offerings with 1, 4, 6, 8, 10 and 12 port options
- » No drain or condensate consideration required
- » Unlimited number of unused ports per box or system
- » Reduced electrical and mechanical installation costs
- » Ultimate flexibility choose multi-port or single-port styles to customize your design
- » Up to 72% reduction in footprint, as compared to previous generation models
- » Up to 17% lower sound levels compared to current VRV III models
- » Up to 65% reduction in weight, as compared to previous generation models





New efficient technology from Daikin



7mm Coil — 3 Row

Improved heat exchanger efficiency



Corrosion protected coil

Daikin VRV comes as standard with a corrosion protected coil — 1000 hr of salt fog testing according to ASTM B117.



4-sided heat exchanger coil

50% more heat exchanger surface than VRV III — more capacity and higher efficiencies from the same footprint



Inverter board cooled by refrigerant circuit

Inverter board cooled

by refrigerant circuit

temperature.
Section of the coil in the unit is permanently set as condenser for cooling of the inverter board.

Minimum influence on electronics from ambient

An inverter Printed Circuit Board (PCB) cooled with the liquid refrigerant circuit increases allows more airflow to the

4-Sided heat exchanger coil for efficiency

A 4-sided condenser with up to 3 coil rows utilizing 7 mm tubing means even though the VRV IV has similar footprint as the

Advanced compressor technology

Daikin J Type Inverter Scroll Compressor has a 50% thinner and a 20% higher scroll blade than the previous generation, which is realized by adapting a newly developed material. This technology increases compression volume by 50%. With the

VRV IV cooling coil to increase efficiency and also minimizes any influence on the inverter board from ambient temperatures.

VRV III, the efficiency is increased while the refrigerant charge is less in most models.

new J Type Compressor and utilizing all inverter compressors, the Maximum Overload Protection (MOP) is reduced by up to 29% compared to VRV III.



Setting the Standards, Again (cont.)

Outdoor unit sequencing technology

Automatic sequencing operation

During start-up, Daikin VRV IV unit sequencing operation will be automatically enabled to ensure balanced operation of each outdoor unit to improve longevity of equipment and stable operation.



Double backup operation functions responding resiliently to various unexpected situations

Double backup operation functions

Daikin VRV IV system boasts double backup operation functions, which can secure the use of air conditioners in this area to the greatest extent by emergently enabling double backup operation functions even if failure occurs in a set of air conditioning equipment. In the event of a failure, emergency operation can be conveniently enabled to allow the remaining system to operate in a limited fashion.

Unit backup operation function

If malfunction occurs in an outdoor unit...

Emergency operation can be conveniently set and enabled by the remote controller for indoor unit (for systems composed of two or more outdoor units).

Compressor backup operation function

If malfunction occurs in a compressor...

Emergency operation can be easily set and enabled by the outdoor unit.









Setting the Standards, Again (cont.)

VRV outdoor units assembled in the U.S.A.

The VRV IV is the first variable refrigerant flow system to be assembled in North America. With a state of the art production line, local / in house preparation, tooling, processing and construction of heat exchangers, refrigerant

cycle assemblies, sheet metal parts, electrical box, etc., we can react quickly to changes in the market-place and truly optimize the product for the North American market.



VRV system configuration and commissioning

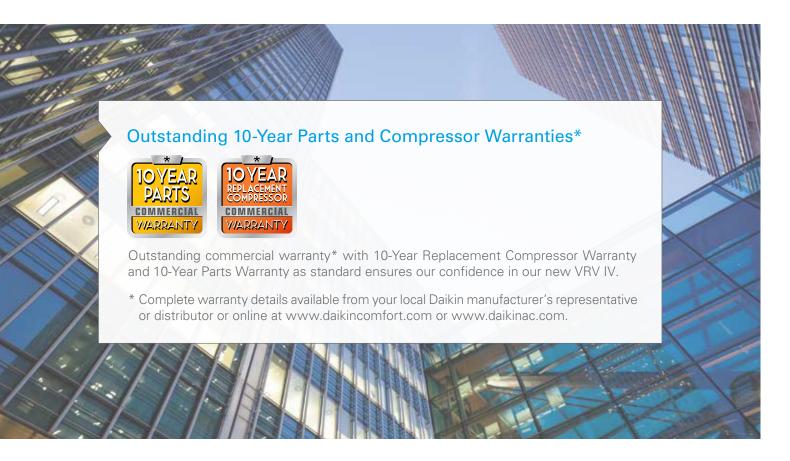
- » The *VRV* configurator is an advanced software solution that allows for easy system configuration and commissioning.
- » Less time is required on the roof configuring the outdoor unit.
- » Multiple systems at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts.
- » Initial settings on the outdoor unit can be easily retrieved.



Simplified commissioning

Retrieve initial system settings





What does a VRV installation mean to you?

Consulting engineers

Daikin's VRV IV technology maximizes flexibility and leads the way in customization to match individual building requirements in comfort and energy — all designed to reduce the total life cycle costs.

- » Maximum flexibility to meet customer requirements
- » Advanced software tools assist with system design

Building owners

VRV IV is the ultimate in customized comfort and intelligent control tailored to your individual needs and used to maximize energy efficiency.

- » Optimized life cycle cost
- » No more cold droughts with variable refrigerant temperature
- » Single point of contact for the design of your climate system
- » Integrated system, combining air conditioning, heating, ventilation, etc., enables optimized system function
- » Multiple systems can be managed in exactly the same way for key accounts
- » Dedicated after-sales service to ensure fast on-site support



Installers

Daikin VRV IV sets the standard with state-of-the-art technology and time-saving commissioning and servicing.

- » Simplified and time-saving commissioning with VRV configurator
- » Unique range of single and multi Branch Selector boxes reduce installation time compared to previous generation
- » Wide range of outdoor units (up to 38 Tons for heat recovery)
- » One supplier equals one point of contact
- » Maximum flexibility to meet customer requirements
- » Customized training to maximize expertise

Architects

- » Indoor units with a sleek and sophisticated design
- » Space efficient outdoor units
- » Low sound levels for both indoor and outdoor units
- » Wide range of indoor units to allow installation in most environments



Vertical Market Applications





VRV for offices and banks

Our office solution offers:

- » Increased occupant productivity with individual zone control, low sound levels & tight temperature control
- » Optimized energy efficiency
- » Simple maintenance low operational cost
- » Modular system allowing cost effective out-of-hours operation
- » Integrated ventilation solutions allowing high indoor air quality
- » Complete Daikin Building Management System for office building management with Intelligent Touch Manager
- » Remote monitoring with email alerts
- » Self-cleaning filters yielding operational and maintenance cost savings
- » Intelligent sensors on Round Fow cassette, suspended cassette (optional), and VISTA 2x2 cassette (optional) maximize efficiency using innovative occupancy sensing features.

VRV for hotels

Our hotel solution offers:

- » Energy efficient systems capable of simultaneous heating and cooling.
- » Ultra-quiet guest room solutions discrete and simple to control.
- » Flexible installation options lowering installation complexity, costs and space requirements than most traditional HVAC systems
- » Inverter technology creating the perfect guest room environment by regulating temperature swings and humidity
- » Centralized control with the iTouch Manager improving owner / management operational capabilities
- » Seamless integration & compatibility with industry acclaimed INNCOM systems delivering combined benefits in guest operations and experience for both guests and management team









VRV for retail and restaurants

Our retail solutions offer:

- » Scalable project opportunities with modular design
- » Individual zone control for advanced zoning capabilities
- » Enhanced efficiency in retail chain operations and energy usage from Daikin's complete Building Management System with Intelligent Touch Manager
- » Centralized building control & autonomy from VRV remote commissioning and management capability
- » 10-Years Parts and Compressor Warranty*



VRV for schools

Our school solution offers:

- » Flexible, scalable total HVAC solution for school classrooms, common areas and administrative offices
- » Over 12,000 Daikin VRV systems in schools in North America
- » Quiet operating sound levels as low as 28 dB(A)
- » Minimal occupant air temperature variations
- » Advanced zoning capabilities with user-friendly and intuitive controls
- » Modular in design accommodating unique school and classroom spaces
- » Self-cleaning filter option for Round Flow cassette simplifies maintenance process and increases operational efficiency
- » Combined benefits of energy and operations efficiency for both school administrators & maintenance staff
- » 10-Year Parts and Compressor Warranty*

^{*} Complete warranty details available from your local Daikin manufacturer's representative or distributor or online at www.daikincomfort.com or www.daikinac.com.







Product Portfolio



Outdoor Units

VRV IV X

VRV IV X 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 multifunctional display is utilized for commissioning and maintenance and quickly converts to digital gauges to provide refrigerant pressure and temperatures.



VRV AURORA™ Heat Recovery & Heat Pump

- » 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 return¹
- » Engineered with Daikin vapor injection compressor for optimized part load efficiencies

IRV IV Heat Recovery

- » Fully integrated solution with heat recovery offers high efficiencies with IEER values up to 29.3
- » Total comfort solution for heating, cooling, ventilation, and controls
- » Outstanding warranty* with 10-Year Compressor and Parts Limited Warranty as standard
- » Perfect personal comfort for guests / tenants via simultaneous cooling and heating
- » Incorporates VRV IV standards and technologies such as variable refrigerant temperature and all inverter compressors
- » Unique range of single and multi-port branch selector boxes
- » Heating function down to -13°F ambient air temperature
- » Daikin VRV IV is the first variable refrigerant flow system to be assembled in North America.
 - Multi module heat recovery systems only for continuous heating during defrost Conditions/rules apply. Refer to Installation and Engineering Manual for
 - * Complete warranty details available from your local Daikin manufacturer's representative or distributor or online at www.daikincomfort.com or www.daikinac.com
- ** Varies based on condensing unit model selected

VRV IV

Heat Pump

- » Total comfort solution for heating, cooling, ventilation and controls
- » Energy efficiency values (IEER) up to 28.0
- » Incorporates VRV IV standards and technologies such as variable refrigerant temperature and all inverter compressors
- » Best-In-class warranty* with 10 year compressor and parts limited warranty as standard
- » Daikin VRV IV is the first variable refrigerant flow system to be assembled in North America.

IPVIV 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*

URU T-Series Ware Count System

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

- » Flexible System design with increased diversity up to $150\,\%^{\dagger}$
- » 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

TYPE	MODEL	FEATURES	PRODUCT NAME									CAI	PAC	ΙΤΥ	10T)	IS)								
		» Industry's first 3-phase variable refrigerant flow system		3	4	5	6	8	10	12	14	16	18	20	21 2	2	24	26	28	30	32	34	36	38
	VRV IV X Heat Recovery	 » Industry's first, a-phase variable refrigerant flow system 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 	YRY IV X				•	•	•	•	•	•	•	•		•	•	•	-					
	VRVIVXH	» New service window provides ease of access to the multi-functional display without removing the main electrical panel. The built-in multifunctional display is utilized for commissioning and maintenance and quickly converts to digital gauges to provide refrigerant pressure and temperatures.																		•	•	•	•	•
	VRV AURORA TM 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 return¹ » Engineered with Daikin vapor injection	RXLQ_T, RELQ_T VRV				•	•	•															
peld	VRV	compressor for optimized part load efficiencies Multi module heat recovery systems only for continuous heating during defrost	DEVO T																					
Air-Cooled	VRV IV Heat Recovery	Fully integrated solution with heat recovery for high efficiencies with IEER of up to 29.3 Covers all thermal needs of a building via a single point of contact for accurate temperature control The perfect personal comfort for guests/tenants via simultaneous cooling and heating Incorporates VRV IV standards & technologies	REYO_T VRV IV				•	-	•	•	•	•	•	•		-	•	-	-					
	VRV	such as Variable Refrigerant temperature and all inverter compressors Widest range of Branch Selector boxes on the market																		•	-	•	-	-
	Pump	» Daikin's solution for comfort & low energy consumption » Covers all thermal needs of a building via a single point of contact for accurate temperature control	RXYQ_T VRV IV				•	•	•	•	•													
	VRV IV Heat F	point of contract for contract compositions										•	•	•			•	•	-					
			DVIO IA																	•	•			
	VRV IV-S Heat Pump	Single phase technology Space saving solution without compromising on efficiency For residential and light commercial applications	RXTO_TA VRV IV S-series	•	•	-																		
	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%***	RWEQ_T				**	+	•	•														
Water-Cooled	<i>eries</i> Water-Cooled Condens Heat Recovery / Heat Pump	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										•	•	•			•							
		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																		•	•	•		

^{* 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.



Product Portfolio (cont.)

Indoor Units

ТҮРЕ	MODEL	FEATURES	PRODUCT NAME
	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 » Installation flexibility with a low profile, compact design at less than 12" in height	FXMQ_PBVJU
	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_TAVJU
Ducted	LSP Slim Concealed Ducted Unit	» Slim height, at only 7- 1/8" » 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 21-5/8" 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
	Concealed Floor- Standing Unit	» Ideal for installation beneath a window » Requires minimal installation space » Fitted with a washable long-life filter » Space-saving unit can be freestanding or wall-mounted	FXNQ_MVJU9
	Round Flow Sensing Cassette	» 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 <i>VRV</i> 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
Duct-Free	Ceiling-Mounted Cassette (Single flow)	» Only 7 - ½" 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- ½", (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

							CAP	ACITY							
MBH TON	5.8 0.5	7.5	9.5	12	15 1.25	18 1.5	24 2	30 2.5	36 3	42	48	54 4.5	60	72	96 8
TUN	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.)

Accessories

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.

NUMBER OF BRA	NUMBER OF BRANCHES / MAXIMUM TOTAL CAPACITY INDEX (KBTU/H)										
	THE STATE OF THE S						Mark."				
BSQ36TVJ	BSQ60TVJ	BSQ96TVJ	BS4Q54TVJ	BS6Q54TVJ	BS8Q54TVJ	BS10Q54TVJ	BS12Q54TVJ				
1/36	1/60	1/96	4/144	6/216	8/290	10/290	12/290				

REFNET

REFNET joints distribute correct flow of refrigerant in every branch of the piping network.



REFNET Joint



KHRP26M73H (max. 8 branch)

KHRP26A22T, KHRP26A33T, KHRP26M72TU, KHRP26M73TU

BHFP22P100U

VRV IV Heat Pump / VRV AURORA™ Heat Pump

REFNET Joint

Outdoor unit multi connection piping kit

OPTIONAL	ACCESSORIES	RXYQ72T RXYQ96T RXLQ72T RXLQ96T	RXYQ120T RXYQ144T RXYQ168T RXLQ120	RXYQ192T RXYQ216T RXYQ240T RXYQ264T RXYQ288T	RXYQ336T RXLQ144T RXLQ192T	RXYQ360T RXYQ384T RXYQ408T
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) KHRP26M73H (max. 8 branch)		Л33H (max. 8 branch) Л72H (max. 8 branch)

KHRP26A22T, KHRP26A33T, KHRP26M72TU

VRV IV X Heat Recovery / VRV IV Heat Recovery / VRV AURORA™ Heat Recovery

KHRP26A22T, KHRP26A33T

OPTIONAL A	CCESSORIES	REYQ72T REYQ96T	RFV0144T		REY0192T REY0216T REY0240T REY0264T REY0288T REY0312T REY0336T	RELQ144T RELQ192T	REYQ360T REYQ384T REYQ408T REYQ432T REYQ456T					
OPTIONAL ACCESSORIES		REYQ72X REYQ96X	NEE COST	REYQ120X REYQ144X REYQ168X	NLLU1201	REYQ192X REYQ216X REYQ226X REYQ264X REYQ288X REYQ312X REYQ336X	RELO240T	REY0360X REY0384X REY0408X REY0432X REY0456X				
Distributed	REFNET header	KHRP25M33H9	(max. 8 branch)	KHRP25M33H9 (max. 8 branch) KHRP25M72H9 (max. 8 branch)				KHRP25M33H9 (max. 8 branch) KHRP25M72H9 (max. 8 branch) KHRP25M73H9 (max. 8 branch)		KHRP25M72H9 (max. 8 br		ranch)
piping	REFNET joint		5A22T9 5A33T9	KHRP2	5A22T9 5A33T9 M72TU9	KHRP25A22T9 KHRP25A33T9 KHRP25M72TU9 KHRP25M73TU9						
Outdoor unit mu	ılti connection piping kit		_	_		BHFP26P100U BHFP2						

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

			VR	V T-SERIES WATER	-COOLED		VRV-IV-S						
UNIT MOD NUMBER	DEL	RWEQ96TATJU RWEQ96TAYDU	RWEQ120TATJU RWEQ120TAYDU	RWEQ144TATJU RWEQ144TAYDU	RWEQ192,216,240, 264,288TATJU RWEQ192,216,240, 264,288TAYDU	RWEQ312,336,360TATJU RWEQ312,336,360TAYDU	RXTQ36TAVJ9 RXTQ48TAVJU RXTQ60TAVJU						
REFNET	Heat Pump	KHRP26M22HR (Max 4 branch) KHRP26M33H9 (Max 8 branch)	KHRP26M22H9 (Max 4 branch), KHRP26M33H9 (Max 8 branch) KHRP26M72H9 (Max 8 branch) KHRP26M73HU9 (Max 8 branch)				KHRP26M33H9 (Max 8 branch)		KHRP26M33H9 (Max 8 branch)		KHRP26M33H9 (Max 8 branch) KHRP26M33H9 (Max 8 branch) KHRP26M73H0 (Max 8 branch)		
Header	Heat Recovery	KHRP26M33H9 (Max 8 branch)		KHRP25M33H9 (Max 8 branch) KHRP25M33H9 (Max 8 branch) KHRP25M72H9 (Max 8 branch) KHRP25M73HU9 (Max 8 branch)									
REFNET	Heat Pump	KHRP26A22T9, KHRP26A33T9	KHRP26A22T9, KHRP26A3	3T9, KHRP26M72TU9	KHRP26A22T9, KHRP26A33T9, K	HRP26A72UT9, KHRP26M73TU9	KHRP26A22T9						
Joint	Heat Recovery	KHRP25A22T9, KHRP25A33T9	KHRP25A22T9, KHRP25A3	3T9, KHRP25M72TU9	KHRP25A22T9, KHRP25A33T9, K	HRP25A72TU9, KHRP25M73TU9							
Outdoor Unit Multi	Heat Pump		_		BHFP22T84U	BHFP22T126U							
Piping Connection Kit	Heat Recovery					BHFP26T84U BHFP26T126U							

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

The optional hail guard kit for VRV 3 ph 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).

KIT PART NUMBER		QUANTITY OF KITS PER ODU MODELS									
	R_YQ72T	R_YQ96-168T	R_YQ192T	R_YQ216-336T	R_YQ360-456T						
		R_LQ72-120T		R_LQ144-240T							
		R_YQ72-168X		R_YQ192-336X	R_YQ360-456X						
VRV4HGS-K1	1		1								
VRV4HGL-K1		1	1	2	3						



Snow/Wind Hood Kits

The optional Snow/Wind Hood Kits mount to VRV IV, IV X, and *VRV AURORA* series units 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.

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			



Product Portfolio (cont.)

Accessories (continued)

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*/IP compatible Building Management System.

DZK Zoning Box for FXMQ_PB and FXSQ indoor units



DZK Wired, Wireless, and Wireless Lite thermostat options



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							
	DKN Cloud Wi-Fi Adaptor	Navigation™ Remote Controller	Simplified Remote Controller	intelligent Touch Controller™	intelligent Touch Manager™	BACnet® Interface	LonWorks® Interface	Modbus [®] Interface
Individual zone control		_						
Independent cool and heat setpoints								
Individual zone control with weekly programmable scheduling	•	•		•	•			
Basic central point on/off control of all air handling 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 via Intranet and Internet				•	•	•	•	•
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								

^{*} Requires one or more DEC102A51-US2 Digital Input/Output units or 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

The configurable display and operation buttons on the NavigationTM Remote Controller will provide as much or as little control as the installed VRV system requires.



Product Portfolio (cont.)

Accessories (continued)

Network solutions

TYPE		iTC™	iTM™	LonWorks®	BACnet®	ModBus®
		0.000				
Screen	Layout screen		•			
Scieen	Touch screen	•	•			
Integration	Mini BMS for heating, air conditioning applied systems and refrigeration units (BACnet and WAGO)		•			
Ü	3rd party equipment integration (BACnet and WAGO)		•			
	Basic control functions: on/off, set point setting, air flow settings, operation mode	•	•	•	•	•
	Temperature limitation	•				
	Setback					
Control	Automatic changeover	•	•			
	Weekly schedule and special day pattern	•	•			
	Timer extension					
	Forced off	•	•	•	•	
	Interlock	•				
	Basic control functions: ON/OFF status, operation mode, set point temp.	•	•	•	•	•
	Filter status	•	=	•	=	•
Monitoring	Malfunction code	•			•	•
	History (operation, malfunction)	•				
	History (Indoor and outdoor unit operation data)					
	Visualization	•				
	PPD (Power Proportional Distribution)	•				
	Web access and control	•	Std			
	HTTP option	•				
Options	BACnet Client		•			
	BACnet Server		•			
	D-Net Service	•				
	Operation Data					
Other	Maximum number of indoor unit groups	2 x 64	8 x 64	64	4 x 64	16

Powerful Service Tool with Indoor and Outdoor Unit Operation Data Points



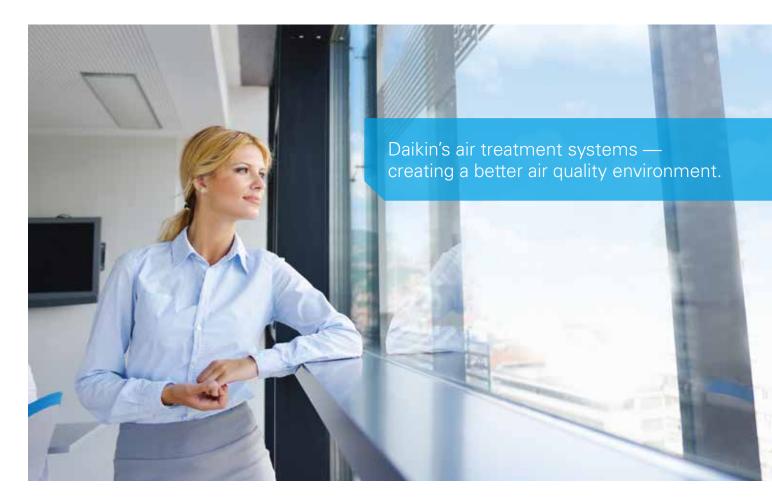
Air treatment systems

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
			00
VRV Refrigerant Piping		Connectable	Not connectable
VRV Control Wiring		Conne	ectable
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	208-23	30/1/60
Airflow Rate	CFM	635 988 1236	300/300/170 470/470/390 600/600/500 1200/1200/930







Indoor Units



As many as 64 separate indoor units can be connected to a refrigerant circuit with a single outdoor unit of up to 38 tons capacity. The Daikin *VRV* indoor unit range is one of the widest on the market, offering no less than 13 stylish and elegant indoor units types in 81 different models — all designed to maximize comfort, minimize operating sound and simplify installation and servicing.

Indoor unit models include Round Flow ceiling mounted cassette, ceiling concealed ducted, ceiling suspended, wall mounted and floor standing models.

The Round Flow sensing cassette now includes an optional variable refrigerant flow system industry first self-cleaning filter, which automatically cleans itself daily

(user adjustable), leading to yearly energy savings of up to 50%. Dust from the filter is collected in the unit for easy and quick removal (when indicated) with a standard vacuum cleaner.

Designed to fit rooms of any size and shape, Daikin indoor units are also user friendly, ultra reliable, easy to control and quiet in operation.

							C.A	APACIT	Υ								
	INDOOR UNIT TYPE	МВН	5.8	7.5	09	12	15	18	24	30	36	42	48	54	60	72	96
	FXMQ_PBVJU HSP DC Concealed Ducted Unit	TONS	0.5	0.6	0.75	1	1.25	1.5	2 ************************************	2.5	3 ************************************	3.5	4 ************************************	4.5	5	6	8
	FXSQ_TAVJU MSP Concealed Ducted Unit		₩ WSA	₩ ₩	₩ ₩ ₩	¥d SSA	★	₩ ₩ ₩	₩ ₩	₩ ₩	₩ ₩		¥J SSA	₩ ₩			
DUCTED	FXDQ_MVJU LSP Slim Concealed Ducted Unit				¥ J	TO SA		¥ J	*** SSA								
	FXTO_TAVJU Multi-Position Air Handling Unit (Upflow, Downflow, Horizontal Left and Horizontal Right)					OSA OSA		▲	Marie Control of the	OSA .	OSA .	OSA OSA	DSA	DSA			
	FXMQ_MVJU HSP High Capacity Concealed Ducted Unit															Marie Control of the	MIN OSA
	FXNQ_MVJU9 Concealed Floor- Standing Unit			OSA OSA	Marie	A SA SA		A ■ SA	OSA OSA								
	FXFQ_TVJU Round Flow Sensing Cassette, Ceiling Mounted			**J	A S	A SA	₩SA	A S	▲ ¥å	A SA	A SA		₩ SA				
	FXUQ_PVJU 4-Way Blow Ceiling-Suspended Cassette							▲	****	**************************************	**************************************						
FREE	FXZQ_TAVJU VISTA™ 2x2 Cassette for <i>VRV</i>			₩ Wosa	A WAR	₩ Wosa	₩ WSA	A WAR									
DUCT-F	FXEQ_PVJU Ceiling-Mounted Cassette (Single Flow)			₩ W	A ₩ SsA	₩ SA	★	A ₩ SsA	₩ SA								
	FXHQ_MVJU Ceiling-Suspended Unit																
	FXAQ_PVJU Wall-Mounted Unit																
	FXLQ_MVJU9 Floor-Standing Unit			OSA OSA	OSA OSA	OSA OSA		OSA OSA	OSA OSA								







Indoor Units Overview

What are your choices?

FXMQ_PBVJU

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_TAVJU

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.



pplications.
It has upflow,
downflow,
horizontal
left and
horizontal right
possibilities.



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



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.





FXAQ_PVJU

Wall-Mounted Unit

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





FXHQ_MVJU

Ceiling-Suspended Unit

Ceiling-suspended with slim and elegant design.







FXMQ_PBVJU HSP DC Concealed Ducted Unit

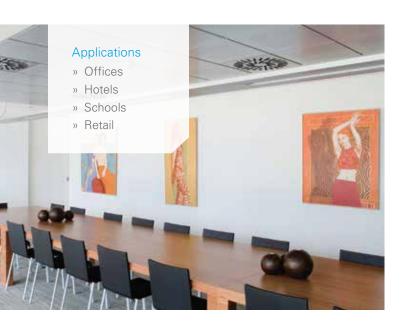


Powerful, Concealed, Flexible

The ceiling mounted HSP DC concealed ducted unit is ideal for small to large spaces in need of a concealed air-conditioning system. It is extremely powerful and the compact design allows it to be completely concealed. This makes it perfect for retail, classrooms, offices, banks, restaurants, shops and hotels common areas.

Features and Benefits

- » Capacity range up to 54 MBH.
- » Energy efficient due to the DC fan motor
- » Ideal to use together with the optional Daikin Zoning Kit, DZK
- » Configurable auxiliary heater control logic
- » Enhanced indoor air quality and LEED ready with MERV 13 filter options
- » Ease of installation with auto adjusting airflow at commissioning based on external static pressure
- » Flexible ductwork design with ESP capabilities up to 0.8" W.G.
- » Installation flexibility with a low profile, compact design at less than 12" in height
- » Easy maintenance with complete service access from below
- » Option to permanently turn off the condensate pump via field settings













BRC1E73 (option)

AZAI6WSCDKA (option)

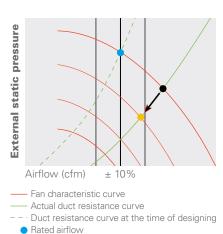
BRC2A71 (option)

BRC4C82 (option)

Auto Adjust External Static Pressure

- » After installation, it is possible that the actual duct resistance is lower than expected at the time of designing. As a consequence, the air-flow will be too high.
- » With the automatic air-flow adjustment function the unit can adapt its fan speed to a lower curve, so the air-flow decreases.
- » The air-flow will always be within 10% of the rated air-flow because of the amount of possible fan curves (more than 8 fan curves available per model).
- » Alternatively the installer can manually select a fan curve with the wired remote control.

Auto Adjust External Static Pressure



• Airflow without airflow automatic adjustment

Actual airflow

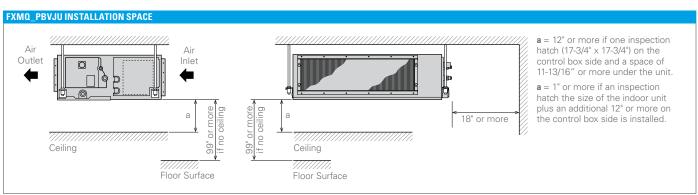
FXMQ_PBV.			0.6 Ton	0.75 Ton	1.0 Ton	1.25 Ton	1.5 Ton	2.0 Ton	2.5 Ton	3.0 Ton	4.0 Ton	4.5 Ton		
Model Name			FXMQ07PBVJU	FXMQ09PBVJU	FXMQ12PBVJU	FXMQ15PBVJU	FXMQ18PBVJU	FXMQ24PBVJU	FXMQ30PBVJU	FXMQ36PBVJU	FXMQ48PBVJU	FXMQ54PBVJU		
Power Supply	/	V/ph/Hz		208-230/1/60										
Rated Cooling Capacity	9	BTU/h	7,500	9,500	12,000	15,000	18,000	24,000	24,000 30,000		48,000	54,000		
Rated Heating Capacity	g	BTU/h 8,500 10,500 13,500 17,000 20,000 27,000 34,000 40,000 54,000		54,000	60,000									
Airflow Rate (H/M/L)	Rate CFM 317/264/229 450/410/388 560/530/500 635/582/529 6				688/618/565	1,094/953/812	1,130/953/812	1,377/1,165/988	1,624/1,377/1,130					
Height		in.		11-3/16										
Width		in.	21-	21-5/8 27-9/16 39-3/8 55-1/8										
Depth		in.						27-9/16						
Weight		lbs.	55	55 (25) 62 (28) 80 (36) 102 (46)						104 (47)				
Condensate Pump Lift		in.			18-3/8									
Sound Pressu (H/M/L)	ire	dB(A)	33/3	1/29	39/37/35	40/38/37	41/39/37	42/40/38	43/4	1/39	44/42/40	46/45/43		
Condensate P Connection	Pipe	in. O.D.						1-1/4						
Pipe	Gas	in.			1/2 (Flare)					5/8 (Flare)				
Connections	Liquid	in.			1/4 (Flare)					3/8 (Flare)				
Refrigerant								R-410A						
Refrigerant C	ontrol						Electroni	c Expansion Valv	/e					
Maximum Overcurrent Protective De	evice	А		15										
Minimum Circuit Amps		А	0	6	1.4	1.5 1.6 1.8 2.8 2.9 3.4					3.4			
Protection De	evices						Fuse and Fan D	river Overload P	rotector					
External Finis	h						Galvan	ized Steel Plate						
External Static in. Wg 0.40/0.12 0.80/0.20 0.56/0							0.56/0.20							

MERV 13 Filter Kit Option contains a MERV 13 filter, adaptor frame and easy to follow installation instructions and can be installed on the following models only:										
Kit Model Indoor Unit										
DACA-FXMQ12131K	FXMQ07-09PBVJU									
DACA-FXMQ14131K	FXMQ12PBVJU									
DACA-FXMQ30131K	FXMQ15-24PBVJU									
DACA-FXMQ48131K	FXMQ30-54PBVJU									

ENTHALPY ECONOMIZER (FIELD APPLIED ACCESSORY)									
Model	Indoor Unit								
ECONMQ12P-8-1K (MERV 8 Filter)	FXM007-09PBVJU								
ECONMQ12P-13-1K (MERV 13 Filter)	LVINION-03LBANO								
ECONMQ30P-8-1K (MERV 8 Filter)									
ECONMQ30P-13-1K (MERV 13 Filter)	FXMQ15-24PBVJU								
ECONMQ48P-8-1K (MERV 8 Filter)									
ECONMQ48P-13-1K (MERV 13 Filter)	FXMQ30-54PBVJU								

FXMQ_PBVJU ACCESSO	DRIES												
Model Name	FXMQ07PBVJU	FXMQ09PBVJU	FXMQ12PBVJU	FXMQ15PBVJU	FXMQ18PBVJU	FXMQ24PBVJU	FXMQ30PBVJU	FXMQ36PBVJU	FXMQ48PBVJU	FXMQ54PBVJU			
Navigation™ Remote Controller*					BRC	1E73							
DKN Cloud Wi-Fi Adaptor		AZAIGWSCDKA											
Simplified Wired Remote Controller*					BRC2	2A71							
Wireless Remote Controller					BRC4	1C82							
Remote Sensor Kit					KRCS	01-4B							
Wiring Adaptor PCB (interface with aux/ primary heater, humidifier, OA damper/fan)		KRP1C74											
Group Control Adaptor PCB (connects to external BMS)					KRP4	IA71							

^{*}Optional face plates available to provide a more intuitive user interface and disable specific functions



FXSQ_TAVJU MSP Concealed Ducted Unit



Do more with less

The MSP concealed ducted unit is engineered with impressive static pressure capability in a compact, flexible chassis design to give designers a tool to approach even the most cramped air conditioning applications.

Features and Benefits

- » Powerful static pressure capability, with up to 0.6 in. Wg (150Pa) external static pressure.
- » Ease of installation with auto adjustingairflow at commissioning based onexternal static pressure.
- » Designed for installation flexibility, with a factory rear-return configuration and field convertible to bottom return.
- » Sound levels as low as 28 dB(A) for quiet operation.
- » Provides a high degree of control for auxiliary heating devices, with independently configurable on/off temperature values.
- » Integral condensate pump with up to 25-5/16" (643mm) of lift from the drain outlet











3RC1E73 (option)

AZAI6WSCDKA (option)

(option)

BRC4C82 (option)

Flexible Installation

The FXSQ_TA can easily be converted to a bottom-return configuration to optimize the use of space above the ceiling or bulkhead space.



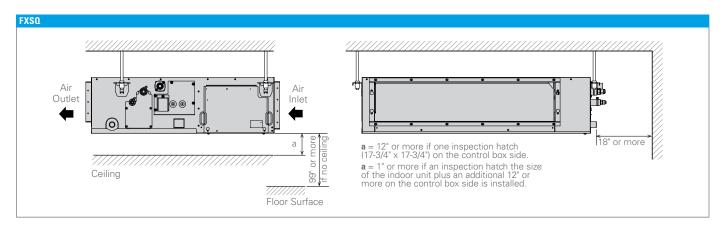


SPECIFICATION	VS		0.5 TON	0.6 TON	0.75 TON	1.0 TON	1.25 TON	1.5 TON					
Model Name			FXSQ05TAVJU	FXSQ07TAVJU	FXSQ09TAVJU	FXSQ12TAVJU	FXSQ15TAVJU	FXSQ18TAVJU					
Capacity Index			5.8	7.5	9.5	12	15	18					
Power Supply		V/ph/Hz		208/230VAC, 60Hz, 1 phase									
Nominal Cooling	Capacity*1	Btu/h (kW)	5,800 (1.7)	7,500 (2.2)	9,500 (2.8)	12,000 (3.6)	15,000 (4.5)	18,000 (5.6)					
Nominal Heatin	g Capacity*2	Btu/h (kW)	6,500 (1.9)	8,500 (2.5)	10,500 (3.1)	13,500 (4.0)	16,500 (5.6)	20,000 (6.3)					
	Туре				Sirocc	o fan							
	Motor Output	W		7	78		130	230					
Fan	Air Flow Rate (H/M/L)	CFM	281 / 28	65 / 230	318 / 265 / 230	335 / 283 / 247	530 / 441 / 371	600 / 512 / 406					
I dii	Drive Type				DC Direc	t Drive							
	External Static Pressure (Std./Max)			0.4 /	0.4 / 0.6								
Height		in.	9-11/16										
Width		in.	21-11/16 27-9/16 39-3/8										
Depth		in.	31-1/2										
Weight		lb.		55	(25)		60 (27)	77 (35)					
Condensate Pur	np Lift	in.			25-5/16	6 (643)							
Sound Pressure	Level (H/M/L speed)	dB(A)		33 / 30 / 28		34/32/30	36 / 33 / 30	34/32/29					
Dina	Liquid	in.			1/4 (F	lare)							
Pipe Connections	Gas	in.			1/2 (F	lare)							
Connections	Condensate Drain	in.			VP2	25							
Refrigerant Con	trol		Electronic Expansion Valve										
Maximum Overd	current Protection Device	А	15										
Minimum Circui	t Ampacity	А		0	.8		1.4	1.6					

SPECIFICATIO	NS		2.0 TON	2.5 TON	3.0 TON	4.0 TON	4.5 TON				
Model Name			FXSQ24TAVJU	FXSQ30TAVJU	FXSQ36TAVJU	FXSQ48TAVJU	FXSQ54TAVJU				
Capacity Index			24	30	36	48	54				
Power Supply		V/ph/Hz	208/230VAC, 60Hz, 1 phase								
Nominal Cooling	g Capacity*1	Btu/h (kW)	24,000 (7.1) 30,000 (9.0)		36,000 (11.2)	48,000 (14.0)	54,000 (15.8)				
Nominal Heatin	g Capacity*2	Btu/h (kW)	27,000 (8.0)	60,000 (17.6)							
	Туре										
	Motor Output	W	2	230	30	00	350				
Fan	Air Flow Rate (H/M/L)	CFM	742 / 618 / 512	812 / 689 / 565	1130 / 953 / 795	1307 / 1112 / 918	1377 / 1183 / 989				
i uii	Drive Type				DC Direct Drive						
	External Static Pressure (Std./Max)			0.4 / 0.56							
Height		in.	9-11/16								
Width		in.	39	1/8	61						
Depth		in.									
Weight		lb.	82	(37)	101 (46)	115 (52)					
Condensate Pur	np Lift	in.			25-5/16 (643 mm)						
Sound Pressure	Level (H/M/L speed)	dB(A)	36 / 32 / 29	37.5 / 34 / 30	39 / 35 / 32	42 / 38.5 / 35	43 / 40 / 36				
D:	Liquid	in.			3/8 (Flare)						
Pipe Connections	Gas	in.			5/8 (Flare)						
Connections	Condensate Drain	in.	VP25								
Refrigerant Con	trol		Electronic Expansion Valve								
Maximum Over	current Protection Device	А	15								
Minimum Circui	t Ampacity	А	1	1.8	2.5	2.8	3.3				

Note: 1 Nominal cooling capacities are based on the following conditions: 80 °FDB / 67 °FWB (26.7 °CDB / 19.4 °CWB) return air temperature; 95 °FDB (35 °CDB) outdoor temperature; 25 ft. (7.6 m) equivalent refrigerant piping.

Year Nominal heating capacities are based on the following conditions: 70 °FDB (21.1 °CDB) return air temperature; 47 °FDB / 43 °FWB (8.3 °CDB / 6.1 °CWB) outdoor temperature; 25 ft. (7.6 m) equivalent refrigerant piping.



FXDQ_MVJU LSP Slim Concealed Ducted Unit



Condensate Pump as Standard



Outside Air Integration Possible



Filter Included

Concealed, Slim, Quiet, Comfortable

The LSP slim concealed unit is available for use with the *VRV* systems to complement the existing concealed ceiling unit options. With its low profile and low sound level this unit can be installed into limited ceiling void, bulkhead or soffit space.

Features and Benefits

- » Slim height, at only 7-7/8", makes it suitable for most of the applications where attic / bulkhead space is limited
- » With a sound level down to 29 dB(A) these units are among the quietest on the market
- » Factory shipped for rear air inlet field convertible to bottom air inlet
- » Washable filter included
- » Condensate pump with vertical lift of up to 21-5/8" included as standard
- » Blends unobtrusively with any interior decor; only the suction and discharge grills are visible









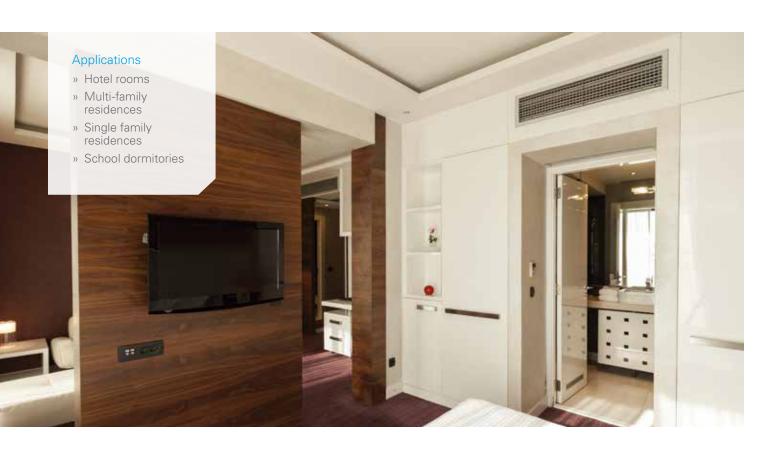


BRC1E73 (option)

AZAI6WSCDKA (option)

(option)

BRC4C82 (option)



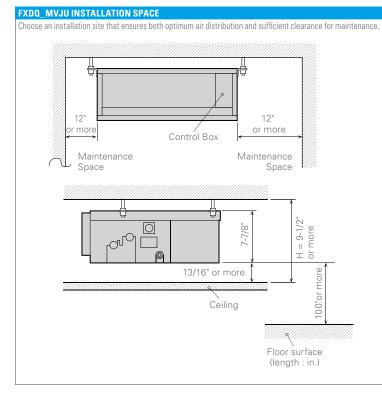
FXDQ_MVJU SPECIFICATIO	NS		0.6 TON	0.75 TON	1 TON	1.5 TONS	2 TONS			
Model Name			FXDQ07MVJU	FXDQ09MVJU	FXDQ12MVJU	FXDQ18MVJU	FXDQ24MVJU			
Power Supply		V/ph/Hz	208-230/1/60							
Rated Cooling Capacity		BTU/h	7,500	18,000	24,000					
Rated Heating Capacity		BTU/h	8,500	10,500	13,500	20,000	27,000			
Airflow Rate (H/L)		CFM		280/226		440/350	580/460			
Weight		lbs.		51		63	71			
Height		in.			7-7/8					
Width		in.		27-9/16		35-7/16	43-5/16			
Depth		in.			24-7/16					
Sound Pressure (H/L) dB(A)			33/29 35/31 36/32							
Condensate Pump Lift		in.			21-5/8					
Condensate Pipe Connection		in. O.D.	1-1/32							
Pipe Connections	Gas	in.		1/2	(Flare)		5/8 (Flare)			
Tipe connections	Liquid	in.		1/4	(Flare)		3/8 (Flare)			
Refrigerant					R-410A					
Refrigerant Control					Electronic Expansion Valve)				
Maximum Overcurrent Protectiv	e Device	А			15					
Minimum Circuit Amps		А		0.9		1.3	1.4			
Protection Devices			Fuse and Fan Motor Thermal Protector							
External Finish			Galvanized Steel Plate							
Standard Filter Type				Rer	movable, Washable, Mildew	Proof				
External Static Pressure (H/L)		in. Wg		0.12/0.04		0.17/0.06	0.17/0.06			

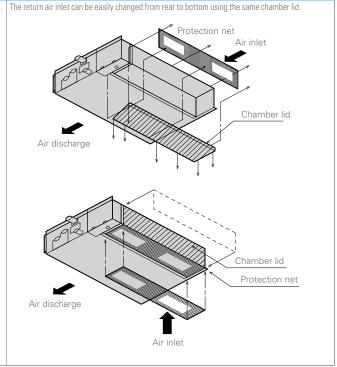
Cooling Mode Indoor: 80 °F DB / 67 °F WB Outdoor: 95 °F DB Pipe Length: 25 ft. Level Difference: 0 ft. Heating Mode Indoor: 70 °F DB Outdoor: 47 °F DB / 43 °F WB Pipe Length: 25 ft. Level Difference: 0 ft.

 $\begin{tabular}{ll} \textbf{Note:} Specifications are subject to change \\ without notice. \end{tabular}$

FXDQ_MVJU ACCESSORIES					
Model Name	FXDQ07MVJU	FXDQ09MVJU	FXDQ12MVJU	FXDQ18MVJU	FXDQ24MVJU
Navigation™ Remote Controller*			BRC1E73		
DKN Cloud Wi-Fi Adaptor			AZAI6WSCDKA		
Simplified Wired Remote Controller*			BRC2A71		
Wireless Remote Controller			BRC4C82		
Remote Sensor Kit			KRCS01-1B		
Wiring Adaptor PCB (interface with aux/primary heater, humidifier, OA damper/fan)			KRP1C75		
Group Control Adaptor PCB (connects to external BMS)			KRP4A74		
Access Panel (single door)		APFXDQ070912	APFXDQ18	APFXDQ24	
Access Panel with return air filter (single door)		APRFFXDQ070912	APRFFXDQ18	APRFFXDQ24	
Filter Media Replacement		APRFFXDQ070912F		APRFFXDQ18F	APRFFXDQ24F

^{*} Optional face plates available to provide a more intuitive user interface and disable specific functions





FXTQ_TAVJUA(D)

Multi-Position Air Handling Unit



Outside Air Integration Possible



All Aluminum Coil



Variable Speed ECM Motor

Outstanding flexibility and performance

The FXTQ_TAVJUA(D) air handler features full multi-position* flexibility to meet the most demanding installation conditions. A multitude of features ensure reliable, efficient performance year round.

Features and Benefits

- » Expanded capacity lineup, featuring ten models ranging from ¾ ton to 5 tons, with a redesigned** unit frame for maximum durability.
- » Full multi-position air handler capable of upflow, downflow*, horizontal right, and horizontal left installation.
- » A high efficiency, ECM motor powers the fan to deliver nominal CFM at up to 0.9" in. Wg static. An auto fan speed setting automatically adjusts the fan speed through 5 steps based on the load in the space.
- » Wide line up of electric heat (field installed) options from 3kW to 25kW.
- » An auxiliary heat logic features a reduced heater operation deadband and the ability to run both heat pump and auxiliary heat for maximum comfort and performance in colder climates. The auxiliary heat can be interlocked with the ambient temperature sensed by the outdoor unit.
- » Designed with less than 2% air leakage when tested in accordance with ASHRAE standard 193.
- » New integrated control board reduces** the number of electrical connections required. Quick disconnect control wiring terminals simplify installation.
- » Easily integrate with third party accessories such as a humidifier or economizer with on-board contacts.





- » Up to 200% connection ratio is possible on applicable VRV IV systems.
- » Available with optional factory installed disconnect (Built to order — model FXTQ_TAVJUD.
- *Downflow requires field installed optional downflow accessory. (Part number DFK-B/C/D)
- **Compared to previous model FXTQ_P

Designed for Compact Spaces

With its compact and space saving design, the new FXTQ_TAVJUA(D) air handler units are engineered to suit most light commercial and residential applications.

- » At under 46" tall and only 17-1/2" wide up to 3 tons, the FXTQ_TAVJUA(D) can be installed in tight closet spaces.
- » Designed for zero clearance on three sides and only 24" clearance on the front for service.
- » Sound levels as low as 36 dBA to suit applications in sound sensitive environments.

Electric Heater Options

ELECTRICAL HE	ATER	CAPAC	ITY						
Model Name	3kW	5kW	6kW	8kW	10kW	15kW	19kW	20kW	25kW
FXTQ09TAVJUA(D)									
FXTQ12TAVJUA(D)									
FXTQ18TAVJUA(D)									
FXTQ24TAVJUA(D)									
FXTQ30TAVJUA(D)									
FXTQ36TAVJUA(D)					•				
FXTQ42TAVJUA(D)									
FXTQ48TAVJUA(D)							-		
FXTQ54TAVJUA(D)									
FXTQ60TAVJUA(D)									

SPECIFICATION	IS		0.75 TON	1 TON	1.5 TON	2 TON 2.5 TON				
Model Name			FXTQ09TAVJUA	FXTQ12TAVJUA	FXTQ18TAVJUA	FXTQ24TAVJUA	FXTQ30TAVJUA			
Model Name (W	th factory disconnect)		FXTQ09TAVJUD	FXTQ12TAVJUD	FXTQ18TAVJUD	FXTQ24TAVJUD	FXTQ30TAVJUD			
Power Supply		V/ph/Hz			208/230VAC, 60Hz, 1 phase					
Nominal Cooling	Nominal Cooling Capacity*1 Btu/h 9,500 12,000 18,000 24,000				30,000					
Nominal Heating	Capacity*2	Btu/h	10,500	13,500	20,000	27000	34,000			
	Туре				Sirocco FC Centrifugal					
	Motor Output	HP			1/2					
Fan	Air Flow Rate (H/M/L	CFM	300 / 275 / 250	400 / 340 / 280	600 / 510 / 420	800 / 680 / 560	1000 / 850 / 700			
	Static Pressure*3	in. Wg		0.18" / 0.9"						
	Drive Type		Variable speed ECM							
Height		in.	45							
Width		in.			17.5					
Depth		in.	21							
Weight (net) (TAV	JUA/TAVJUD)	lbs.	105/108	112/115	111/118	112/115	113/116			
Sound Pressure L	evel (H speed)	dB(A)	3	6	4	5	52			
D:	Liquid	in.		1/4 (Braze)		3/8 (8	Braze)			
Pipe Connections	Gas	in.		1/2 (Braze)		5/8 (E	Braze)			
Connections	Condensate Drain	in.			3/4 (fpt)					
Refrigerant Control			Electronic Expansion Valve							
Maximum Overcurrent A			15							
Minimum Circuit	Amps	А			4.9					

SPECIFICATION	NS .		3 TON	3.5 TON	3.5 TON 4 TON 4.5 TON 5 TON				
Model Name			FXTQ36TAVJUA	FXTQ42TAVJUA	FXTQ48TAVJUA	FXTQ54TAVJUA	FXTQ60TAVJUA		
Model Name (W	ith factory disconnect)		FXTQ36TAVJUD	FXTQ42TAVJUD	FXTQ48TAVJUD	FXTQ54TAVJUD	FXTQ60TAVJUD		
Power Supply		V/ph/Hz			208/230VAC, 60Hz, 1 phase				
Nominal Cooling	Capacity*1	Btu/h	36,000	42,000	48,000	54,000	60,000		
Nominal Heating	Capacity*2	Btu/h	40,000	46,000	54,000	60,000 66,000			
	Туре				Sirocco FC Centrifugal	·			
	Motor Output	HP	1/2	3	3/4	1.	0		
Fan	Air Flow Rate (H/M/L	CFM	1050 / 900 / 750	1400 / 1190 / 980	1520 / 1290 /1060	1800 / 1530 / 1260	1800 / 1530 / 120		
	Static Pressure*3	in. Wg		0.23" / 0.9"	0.28" / 0.9"				
	Drive Type				Variable speed ECM				
Height		in.	45	53.43		5	8		
Width		in.	17.5	21		24	.5		
Depth		in.			21				
Weight (net) (TA)	/JUA/TAVJUD)	lbs.	113/116	144	1/147	165,	168		
Sound Pressure I	_evel (H speed)	dB(A)	52	Į	54	5	0		
Dina	Liquid	in.			3/8 (Braze)				
Pipe Connections	Gas	in.			5/8 (Braze)				
Connections	Condensate Drain	in.			3/4 (fpt)				
Refrigerant Control Electronic Expansion Valve									
Maximum Overcurrent A			15						
Minimum Circuit	Amps	А	4.9	6	3.5	8.	6		

^{*1} Nominal cooling capacities are based on the following conditions: 80 °FDB / 67 °FWB (26.7 °CDB / 19.4 °CWB) return air temperature; 95 °FDB (35 °CDB) outdoor temperature; 25 ft. (7.6 m) equivalent refrigerant piping.

^{*2} Nominal heating capacities are based on the following conditions: 70 °FDB (21.1 °CDB) return air temperature; 47 °FDB / 43 °FWB (8.3 °CDB / 6.1 °CWB) outdoor temperature; 25 ft. (7.6 m) equivalent refrigerant piping.

 $[\]ensuremath{^{*_3}}$ External static pressures are indicated as rated / maximum allowable range.

FXMQ_MVJU HSP High Capacity

Concealed Ducted Unit



Concealed, Slim Design, Strong, Comfortable

The FXMQ_MVJU ducted fan coil unit is ideal for larger open space floor plans usually found in offices, retails, hotels, or education facilities. It performs well across multiple spaces that can benefit from the same mode of operation, limiting equipment and installation cost.

Features and Benefits

- » Design flexibility with a capacity range up to 96 MBH
- » Improved ductwork and filtration flexibility with ESP capabilities of up to 1.1" W.G.
- » Low profile design of less than 19" high to reduce required installation space











BRC1E73 (option)

AZAI6WSCDKA (option)

BRC2A71 (option)

BRC4C82 (option)

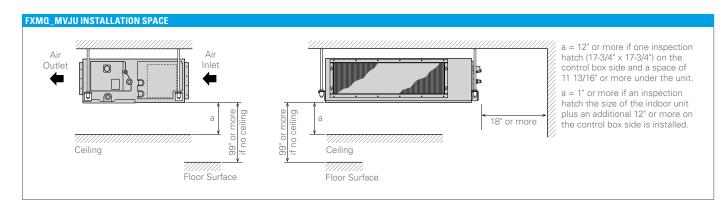


FXMQ_MVJU SPECIFICATIONS			6 TON	8 TON		
Model Name			FXMQ72MVJU	FXMQ96MVJU		
Power Supply		V/ph/Hz	208-	-230/1/60		
Rated Cooling Capacity		BTU/h	72,000	96,000		
Rated Heating Capacity		BTU/h	81,000	108,000		
Airflow Rate (H/L)		CFM	2,047/1,764	2,541/2,188		
Weight		lbs.		380		
Height		in.	·	18-1/8		
Width		in.	Į	54-3/8		
Depth		in.	4	3-5/16		
Sound Pressure (H/L)		dB(A)		48/45		
Condensate Pipe Connection		in. O.D.	1			
Pipe Connections	Gas	in.	3/4 (Flare)	7/8 (Flare)		
Tipe Connections	Liquid	in.	3/	8 (Flare)		
Refrigerant			F	R-410A		
Refrigerant Control			Electronic	Expansion Valve		
Maximum Overcurrent Protective De	vice	A		15		
Minimum Circuit Amps		A	9.5			
Protection Devices			Fuse and Fan Mo	otor Thermal Protector		
External Finish			Galvaniz	ed Steel Plate		
External Static Pressure (Nominal/M	laximum)	in. Wg	0.38/0.95	0.43/1.1		

Cooling Mode Indoor: 80 °F DB / 67 °F WB Outdoor: 95 °F DB Pipe Length: 25 ft. Level Difference: 0 ft. Heating Mode Indoor: 70 °F DB Outdoor: 47 °F DB / 43 °F WB Pipe Length: 25 ft. Level Difference: 0 ft. **Note:** Specifications are subject to change without notice.

FXMQ_MVJU ACCESSORIES		
Model Name	FXMQ72MVJU	FXMQ96MVJU
Navigation™ Remote Controller*	BRO	C1E73
DKN Cloud Wi-Fi Adaptor	AZAI6\	WSCDKA
Simplified Wired Remote Controller*	BRC	C2A71
Wireless Remote Controller	BRO	24C82
Remote Sensor Kit	KRC	S01-1B
Wiring Adaptor PCB (interface with aux/primary heater, humidifier, OA damper/fan)	KRI	P1C74
Group Control Adaptor PCB (connects to external BMS)	KRF	P4A71
High Efficiency Filter Kit (MERV 13)	DACA-MO	Ω96M-13-1K
High Efficiency Filter Kit (MERV 8)	DACA-M	Q96M-8-1K

 $^{^{*}}$ Optional face plates available to provide a more intuitive user interface and disable specific functions



FXNQ_MVJU9 Concealed Floor-Standing Unit



Versatile, Logical, Durable, Quiet

The ideal way to save space, our floor-standing units can easily be installed along a perimeter wall — or concealed. The air distribution from these models will allow you to find the right balance for classrooms, churches, office hallways or similar spaces. The concealed floor units cover a wide range of capacities and can be built into counter in order to maintain the aesthetics of the room.

Features and Benefits

- » 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, concealed or exposed
- » Models range from 7.5 MBH to 24 MBH









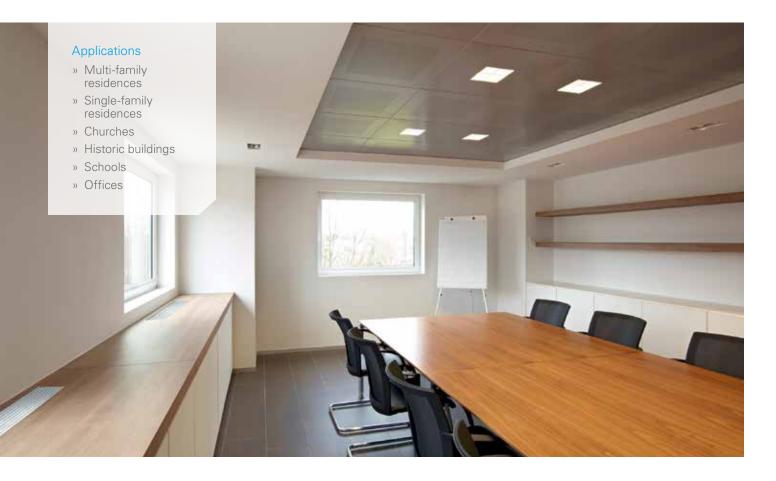
AZAI6WSCDKA (option)



3RC2A71 (option)



BRC4C82 (option)

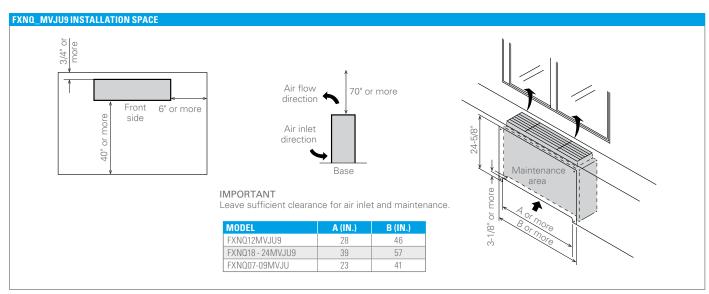


FXNQ_MVJU9 SPECIF	ICATIONS		0.6 TON	0.75 TON	1 TON	1.5 TON	2 TON	
Model Name			FXNQ07MVJU9	FXNQ09MVJU9	FXNQ12MVJU9	FXNQ18MVJU9	FXNQ24MVJU9	
Power Supply		V/ph/Hz			208-230/1/60			
Rated Cooling Capacity		BTU/h	7,500	9,500	12,000	18,000	24,000	
Rated Heating Capacity		BTU/h	8,500	10,500	13,500	20,000	27,000	
Airflow Rate (H/L)		CFM	245,	/210	280/210	490/380	560/420	
Weight		lbs.	4	.7	56	6	60	
Height		in.			24			
Width		in.	36-	5/8	42-1/8	53	-1/8	
Depth		in.			8-5/8			
Sound Pressure (H/L)		dB(A)	35,	/32	36/33	40/35	41/36	
Condensate Pipe Connec	tion	in. O.D.	27/32					
Pipe Connections	Gas	in.	1/2 5/8					
	Liquid	in.	1/4					
Refrigerant					R-410A			
Refrigerant Control					Electronic Expansion Valve			
Maximum Overcurrent Protective Device		А			15			
Minimum Circuit Amps		А	0.3 0.5 0.6					
Protection Devices			Fuse and Fan Motor Thermal Protector					
External Finish					Galvanized Steel Plate			
Standard Filter Type					Resin Net (with Mold Resistant	t)		

Cooling Mode Indoor: 80 °F DB / 67 °F WB Outdoor: 95 °F DB Pipe Length: 25 ft. Level Difference: 0 ft. Heating Mode Indoor: 70 °F DB Outdoor: 47 °F DB / 43 °F WB Pipe Length: 25 ft. Level Difference: 0 ft. **Note:** Specifications are subject to change without notice.

FXNQ_MVJU9 ACCESSORIES					
Model Name	FXNQ07MVJU9	FXNQ09MVJU9	FXNQ12MVJU9	FXNQ18MVJU9	FXNQ24MVJU9
Navigation™ Remote Controller			BRC1E73		
DKN Cloud Wi-Fi Adaptor			AZAI6WSCDKA		
Simplified Wired Remote Controller*			BRC2A71		
Wireless Remote Controller			BRC4C82		
Remote Sensor Kit			KRCS01-1B		
Wiring Adaptor PCB (interface with aux/primary heater, humidifier, OA damper/fan)			KRP1C74		
Group Control Adaptor PCB (connects to external BMS)			KRP4A71		
Condensate Pump			DACA-CP3-1		

^{*} Optional face plates available to provide a more intuitive user interface and disable specific functions



FXFQ_TVJU

Round Flow Sensing Cassette



Condensate Pump as Standard



Outside Air Integration Possible



Filter Included



Adaptive Comfort Control

The Round Flow Sensing Cassette is ideal for open plan applications such as classrooms and offices where adaptive comfort control is preferred. The unit provides an excellent comfort level, energy efficiency, and flexibility due to advanced control functions based on input from three room sensors (occupancy, air temperature, and surface temperature). With 18 configurable airflow distribution patterns, it can be efficient and provide a comfortable environment in smaller, more intricate spaces as well.

Features and Benefits

- » Capacity range from 7.5 to 48 MBH.
- » True 360° Airflow and three room sensors enables optimized occupant comfort and efficiency
- » Energy efficient with DC fan motor and auto-logic that adjusts fan speed based on space load
- » Optional self-cleaning air filter panel to further increase efficiency and reduce maintenance costs, when used in VRV IV systems
- » Very flexible with 18 different possible airflow patterns, ensuring ideal air distribution to maximize comfort and efficiency
- » Compact design to allow for installation in small ceiling voids
- » Sound pressure levels as low as 27 db(A)
- » Enhanced indoor air quality and LEED ready with MERV 13 filter options

The built-in occupancy sensor has two main functions: save energy and optimize occupancy comfort. In order to save energy, the function of the occupancy sensor can be used to automatically set back the air temperature and also lower the fan speed if no people are present in the room.



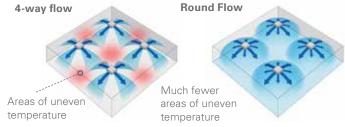


Together with the occupancy sensor, the air-temperature sensor and the built-in surface temperature sensor are used to maintain an even and comfortable temperature distribution from floor to ceiling in the room. This is done by automatically adjusting the supplied airflow rate and the individual position of each of the four supply air louvers in the unit, thus maintaining the required comfortable space environment.

In order to further increase efficiency and reduce maintenance costs, the Round Flow Sensing Cassette can be equipped with an optional self-cleaning filter panel that performs automatic air-filter cleaning up to once a day. Dust is deposited into a collection box during the self-cleaning process. When indicated with light on the unit and on the controller display, the dust collection box in the unit can easily and quickly be emptied with a standard vacuum cleaner.

4-way flow vs. Round Flow

Round Flow Ceiling Mounted Cassette type offers 360° airflow with improved temperature distribution.



Advanced design for comfort and efficiency

Heat Exchanger Design

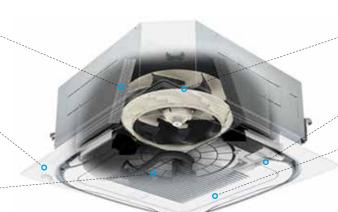
Optimized for part load operation — great enhancement to seasonal energy efficiency

Occupancy and Surface Temperature Sensors

Enables additional energy savings and increased comfort

Optional Self-Cleaning Filter Panel

Provides optimum efficiency, airflow and reduced maintenance



DC Fan Motor

Very efficient — enables fan auto logic based on ΔT set point

DC Drain Pump

Low power consumption

Decoration Panel

- » Efficient due to large air discharge outlets
- » Unique 360° airflow distribution
- » 4 individually controlled louvers enables optimized comfort in the space
- » Possibility to close 1, 2 or 3 louvers adds flexibility

Automatic air-direction control





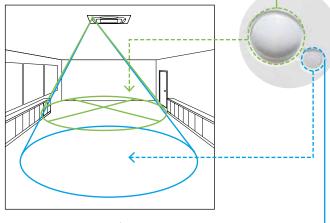
Air flow from the indoor unit is automatically adjusted to always maintain a comfortable environment — even when occupancy changes.

Dual infrared sensors

Sensors detect the presence of people and surface temperature to provide comfortable air-conditioning and energy savings.

Infrared presence sensor ←

The sensor detects human presence, and energy saving control can be performed when no people are detected.



Infrared surface sensor \leftarrow

The sensor detects the surface temperature and automatically adjusts operation of the indoor unit to reduce the temperature difference between the ceiling and the floor.



FXFQ_TVJU (cont.)

Round Flow Sensing Cassette



Condensate Pump as Standard



Outside Air Integration Possible



Filter Included

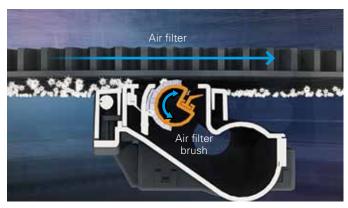


Optional Auto Cleaning Filter

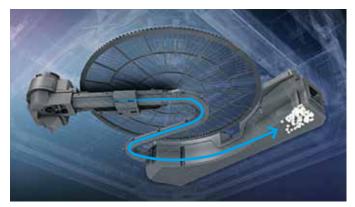


Surface & Occupancy Sensor Kit as Standard

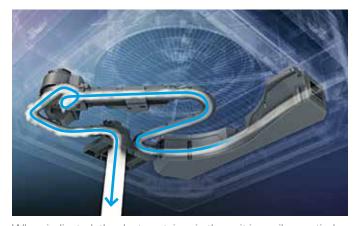
Automatic air filter cleaning (optional)



At the programmed time, the air filter rotates while the air filter brush turns back and forth to brush the filter.



Dust from the air filter brush is deposited into the dust collection container during the fully automatic self-cleaning process.



When indicated, the dust container in the unit is easily emptied with a standard vacuum cleaner.



FXFQ_TVJU SPECIFICATIONS 0.60 TON 0.75 TON 1 TON 1.25 TON 1.5 TON 2 TON 2.5 TON 3 TON						4 TON						
Model Name			FXFQ07TVJU	FXFQ09TVJU	FXFQ12TVJU	FXFQ15TVJU	FXFQ18TVJU	FXFQ24TVJU	FXFQ30TVJU	FXFQ36TVJU	FXFQ48TVJU	
Power Supply		(V/ph/Hz)					208-230/1/60					
Rated Cooling Capacity BTU/h			7,500	9,500	12,000	15,000	18,000	24,000	30,000	36,000	48,000	
Rated Heating Ca	apacity	BTU/h	8,500	10,500	13,500	17,000	20,000	27,000	34,000	40,000	54,000	
Airflow Rate (H/	M/L)	CFM	420/406/353	441/406/353	441/406/353	512/459/388	742/618/477	777/618/477	1,112/918/671	1,165/918/671	1,218/971/742	
Weight		lbs.		48			48			58		
Height		in.			9-11	1/16				11-5/16		
Width		in.					33-1/16					
Depth		in.					33-1/16					
Sound Pressure (H/M/L)	dB(A)	30/28.5/27 31/			31/29/27	35.5/32/28	36/32/28	43.5/38/32	44/38/32	45/40/35	
Condensate Pum	p Lift	in.					33-1/2					
Condensate Pipe	Connection	in. O.D.	1-1/4									
Pipe	Gas	in.			1/2 (Flare)				5/8 (Flare)			
Connections	Liquid	in.			1/4 (Flare)				3/8 (1	3/8 (Flare)		
Refrigerant							R-410A					
Refrigerant Cont	rol					Elec	tronic Expansion V	/alve				
	Maximum Overcurrent Protective Device			15								
Minimum Circuit Amps A 0.3 0.4 0.6 0.7 1.3 1.5					1.5	1.8						
Protection Devic	es					Fuse/Breaker a	and Fan Motor The	rmal Protector				
External Finish						Ga	alvanized Steel Pla	te				
Standard Filter T	уре					Mol	d-Resistant Resin	Net				

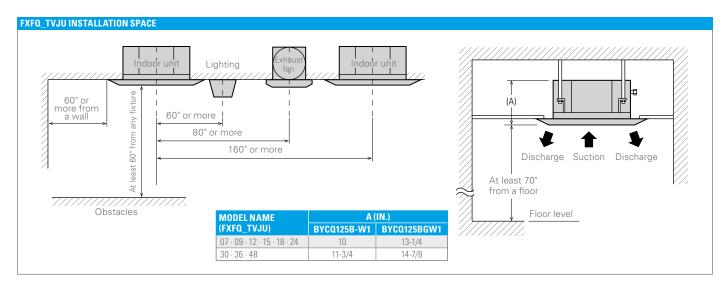
Cooling Mode Indoor: 80 °F DB / 67 °F WB Outdoor: 95 °F DB Pipe Length: 25 ft. Level Difference: 0 ft.

Heating Mode Indoor: 70 °F DB Outdoor: 47 °F DB / 43 °F WB Pipe Length: 25 ft. Level Difference: 0 ft.

Note: Specifications are subject to change without notice.

OPTION			FXFC	109-48TVJU		
Type of pan	el		Self-Cleaning Filter Panel	Standard Sensing Decoration Panel		
Self-Cleani	ng Filter Panel		BYCQ125BGW1	-		
Connection	pipe (for dust rec	overy)	KKHAP55B160	-		
L-shape ext	ension pipe		KKHAP55A160	-		
Standard S	ensing Decoration	Panel	-	BYCQ125B-W1		
Sealing ma	terial for air disch	arge outlet	KDBH55K160F	KDBHQ55B140		
Panel space	er		KDBP55H160FA	KDBP55H160FA		
Fresh air	Chambartuna	Without T shape pipe	-	KDDQ55B140		
intake kit	Chamber type	With T shape pipe	-	KDDP55B160K		
Replaceme	nt long life filter		-	KAFP55B160		
Self-Cleani	ng Filter Panel rep	lacement filter	KAFP554A160	-		
MERV 13 Fi	Iter Kit		-	DACA-FQP13-1K		

OUTDOOR / CONDENSING UNIT COMPATIBILITY								
	FXFQ_TVJU with:							
Outdoor Condensing Unit	Self-Cleaning Filter Panel (BYCQ125BGW1)	Standard Sensing Decoration Panel (BYCQ125B-W1)						
VRV IV-S VRV IV VRV IV W-Series	Ye	es						
VRV III	No	Yes						
SkyAir	N	0						



FXUQ PVJU

4-Way Ceiling-Suspended Cassette



Condensate Pump as Standard



Filter Included



Optional Surface & Occupancy Sensor Kit

Slim, Stylish, Flexible

The unique 4-way ceiling-suspended cassette is an ideal solution for rooms without a false ceiling, or minimal space above a false ceiling, where adaptive comfort control is preferred.

The optional Sensor Kit (occupancy and surface temperature) together with air temperature sensor and advanced control functions enables the unit to provide an exceptional comfort level, energy efficiency, and flexibility.

Features and Benefits

- » Very low unit height of under 8" makes it an ideal solution for school, shops, restaurants and offices with no or low false ceilings
- » Optional Sensor Kit enables input from three room sensors to provide optimized occupant comfort and efficiency
- » Stylish unit blends easily with any interior, as the air louvers close entirely when not in operation
- » Energy efficient fan motor
- » Individual air louver control one or more louvers can be easily closed via the remote controller when required
- » Ideal for both new and existing buildings
- » Can also be mounted partially recessed in a false ceiling
- » Same appearance and size for all capacity models
- » Standard drain pump with 19.5" lift









BRC1E73 (option)

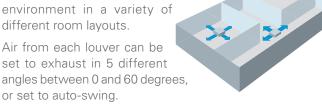
AZAI6WSCDKA (option)

(option)

Flexible Airflow Pattern

The four individually controlled air louvers in the unit enables comfortable space environment in a variety of different room layouts.

set to exhaust in 5 different angles between 0 and 60 degrees, or set to auto-swing.

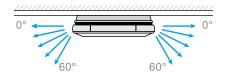


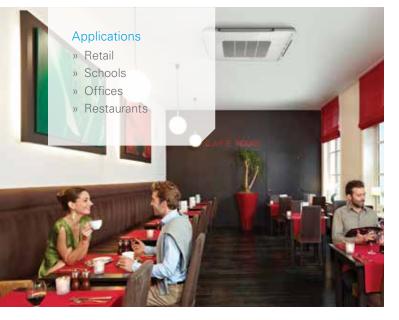


Auto Swing: Wide discharge angle: 0° to 60°



Fixed angles: 5 levels



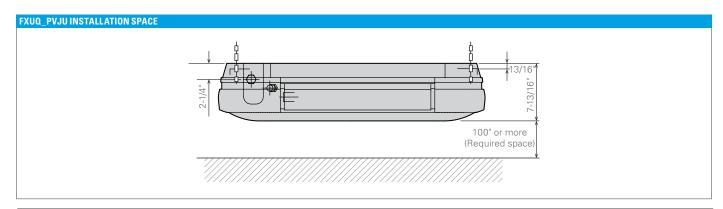


FXUQ_PVJU SPE	CIFICATIONS		1.5 TON	2 TON	2.5 TON	3 TON		
Model Name			FXUQ18PVJU	FXUQ24PVJU	FXUQ30PVJU	FXUQ36PVJU		
Power Supply		(V/ph/Hz)		208-23	80/1/60			
Rated Cooling Capa	acity	BTU/h	18,000	24,000	30,000	36,000		
Rated Heating Cap	acity	BTU/h	20,000	27,000	34,000	40,000		
Airflow Rate (H/M,	/L)	CFM	795/68	39/565	1095/9	118/742		
Weight		lbs.	5	8	6	0		
Height		in.		7-1:	3/16			
Width		in.		37	3/8			
Depth		in.		37	3/8			
Sound Pressure (H)	/M/L)	dB(A)	40/38/36 47/44/40			4/40		
Condensate Pump	Lift	in.		19.5				
Condensate Pipe C	onnection	in. O.D.	VP20					
Pipe	Gas	in.	1/2 (Flare)	5/8 (Flare)	5/8 (Flare)		
Connections	Liquid	in.	1/4 (Flare)	3/8 (Flare)	3/8 (Flare)		
Refrigerant				R-4	10A			
Refrigerant Contro				Electronic Ex	pansion Valve			
Maximum Overcuri	rent Protective Device	А		1	5			
Minimum Circuit Amps A			0.6			.4		
Protection Devices			Fuse and Fan Motor Thermal Protector					
External Finish				White	Casing			
Standard Filter Typ	e			Resin Net (with	n Mold Resister)			

Cooling Mode Indoor: 80 °F DB / 67 °F WB Outdoor: 95 °F DB Pipe Length: 25 ft. Level Difference: 0 ft. Heating Mode Indoor: 70 °F DB Outdoor: 47 °F DB / 43 °F WB Pipe Length: 25 ft. Level Difference: 0 ft. Note: Specifications are subject to change without notice.

FXUQ_PVJU ACCESSORIES							
Model Name	FXUQ18PVJU FXUQ24PVJU FXUQ30PVJU FXUQ36P						
Sealing Member of Air Discharge Outlet	KDBHP49B140						
Decoration Panel for Air Discharge		KDBTP4	9B140				
Replacement Long-Life Filter		KAFP55	1K160				
Remote Control (wired type)		BRC1	E73				
Sensor Kit ²		BRE49	B1F				
DKN Cloud Wi-Fi Adaptor		AZAI6W3	SCDKA				
Group Control Adaptor Printed Circuit Board ¹		KRP4.	A74				
Installation Box for Adaptor PCB	KRP1BA97						
Remote Sensor ²		KRCSO	1-48				

¹ Installation box for Adaptor PCB (KRP1BA97) is necessary. ² Remote Sensor can only be installed when Sensor Kit is not installed.



Automatic air-direction control





Air-flow from the indoor unit is automatically adjusted to always maintain a comfortable environment — even when occupancy changes.



FXZQ_TAVJU VISTATM 2 x 2 Cassette Unit for VRV



Condensate Pump as Standard



Outside Air Integration Possible



Filter Included

Designer Comfort

VISTA™ is a remarkable blend of iconic design and engineering excellence with an elegant white or a silver and white finish. Fitting within the ceiling grid, VISTA™ is stylish, low profile, and compact. Energy efficiency and comfort can be enhanced through the combined use of optional floor and presence sensors. It is also possible to close individual louvers via the wired remote control for personalized comfort.

Features and Benefits

- » New 0.5 ton (5,800 Btu/h) size.
- » Seamless integration in standard architectural ceiling tiles, eliminating any overlap of adjacent tiles.
- » Energy efficient operation thanks to specially developed small tube heat exchanger and two optional intelligent sensors.
- » The use of a high efficiency DC fan motor reduces operational power input up to 48% compared to the previous generation.
- » Provides high degree of control for auxiliary heating devices, with independently configurable on/off temperature values.
- » Direct integration of fresh air through a factory knock out













BRC1E73 (option)

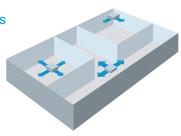
AZAI6WSCDKA (option)

BRC2A7 (option)

BRC082A42W (option for white) BRC082A42S (option for silver)

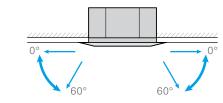
Flexible Airflow Patterns

The four air louvers in the unit enables comfortable space environment in many different room layouts.

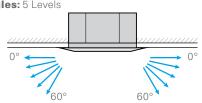


Airflow Angles

Auto Swing: Wide discharge angle: 0° to 60°



Fixed Angles: 5 Levels



Angles can be also set on site to prevent drafts $(0^{\circ}-35^{\circ})$ or soiling of the ceiling $(25^{\circ}-60^{\circ})$, other than standard setting $(0^{\circ}-60^{\circ})$.

SPECIFICATIO	NS		0.5 TON	0.6 TON	0.75 TON	1 TON	1.25 TON	1.5 TON		
Model Name			FXZQ05TAVJU	FXZQ07TAVJU	FXZQ09TAVJU	FXZQ12TAVJU	FXZQ15TAVJU	FXZQ18TAVJU		
Capacity Index			5.8	7.5	9.5	12	15	18		
Power Supply		V/ph/Hz			208/230VAC,	60Hz, 1 phase				
Nominal Cooling	Capacity*1	Btu/h (kW)	5,800 (1.7)	7,500 (2.2)	9,500 (2.8)	12,000 (3.5)	15,000 (4.5)	18,000 (5.3)		
Nominal Heating	Capacity*2	Btu/h (kW)	6,500 (1.9)	8,500 (2.5)	10,500 (3.1)	13,500 (4.0)	17,000 (5.0)	20,000 (5.9)		
	Туре				Turb	Fan				
F	Motor Output	W		50						
Fan	Air Flow Rate (H/M/L)	CFM	300 / 247 / 229	307 / 264 / 229	317 / 282 / 229	353 / 300 / 247	405 / 335 / 282	511 / 441 / 353		
	Drive Type			DC Direct Drive						
Dimensions - Uni	t Body (H x W x D)	in. (mm)	10-1/4 x 22-5/8 x 22-5/8 (260x575x575)							
Dimensions - Dec	coration Panel (H x W x D)	in. (mm)	1-13/16 x 24-7/16 x 24-7/16 (46x620x620)							
Weight (net)		lb. (kg)	40.4 (18.3) 42.6 (19.3) 47 (21.3)					47 (21.3)		
Condensate Pum	p Lift	in. (mm)	24-15/16 (630)							
Sound Pressure L	Level (H/M/L speed)	dB(A)	32 / 29	.5 / 25.5	33 / 30 / 29.5	33.5 / 30 / 26	37 / 32 / 28	43 / 40 / 33		
	Liquid	in.			1/4 (1	-lare)				
Pipe Connections	Gas	in.			1/2 (1	Flare)				
Cominections	Condensate Drain	in.			VP	20				
Refrigerant Cont	rol				Electronic Ex	oansion Valve				
Maximum Overcurrent Protection Device A			15							
Minimum Circuit Ampacity A			0.3 0.4 0.6					0.6		
Decoration Pane	I – White		BYFQ60C3W1W							
Decoration Pane	I – Silver/White		BYFQ60C3W1S							

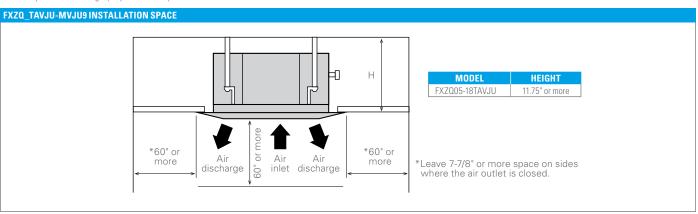
Note: *1 Nominal cooling capacities are based on the following conditions: 80 °FDB / 67 °FWB (26.7 °CDB / 19.4 °CWB) return air temperature; 95 °FDB (35 °CDB) outdoor temperature; 25 ft. (7.6 m) equivalent refrigerant piping.

 $^{^{\}circ 2}$ Nominal heating capacities are based on the following conditions: 70 °FDB (21.1 °CDB) return air temperature; 47 °FDB / 43 °FWB (8.3 °CDB / 6.1 °CWB) outdoor temperature; 25 ft. (7.6 m) equivalent refrigerant piping.

FXZQ_TAVJU ACCESSORIES							
Model Name	FXZQ05TAVJU	FXZQ07TAVJU	FXZQ09TAVJU	FXZQ12TAVJU	FXZQ15TAVJU	FXZQ18TAVJU	
Navigation™ Remote Controller*			BRC	1E73			
DKN Cloud Wi-Fi Adaptor			AZAI6V	VSCDKA			
Simplified Wired Remote Controller*			BRC	2A71			
Infrared Remote Controller - White**			BRC08	2A42W			
Infrared Remote Controller - Silver**			BRC08	32A42S			
Space and Presence Sensor Kit - White**	BRYQ60A2W						
Space and Presence Sensor Kit - Silver**	BRYQ60A2S						
VISTA Decoration Panel - White	BYFQ60C3W1W						
VISTA Decoration Panel - Silver	BYFQ60C3W1S						
Legacy MVJU9-style Decoration Panel			BYFQ6	0B3W1			
Remote Sensor Kit	KRCS01-4B						
Wiring Adaptor PCB (interface with aux heater, humidifier, OA damper/fan)	An) KRC1C75						
Long-Life Replacement Filter	KAFQ441BA60						
Sealing Member of Air Discharge Kit	BDBHQ44C60						
Fresh Air Intake Kit			KDDQ4	14XA60			

^{*}Optional face plates to provide a more intuitive user interface and disable specific functions

 $[\]hbox{**Not compatible with the legacy-style decoration panel}\\$



FXEQ_PVJU

Ceiling-Mounted Cassette (Single Flow)



Condensate Pump as Standard



Outside Air Integration Possible

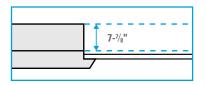


Filter Included

Slim and Compact Design for Installation Flexibility

Features and Benefits

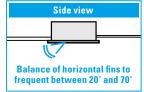
» The main body of the unit is optimized to be a compact design. Only 7-7/8" in height and a width of 18-½" making it possible to



use this style of indoor unit in the tightest of spaces.

» The innovative discharge air louver design forces air in heating mode to ground level to improve the overall space heating effect of the indoor unit.





- » The unit is equipped with both horizontal and vertical louvers that can be freely adjusted with the remote controller providing a capability to optimize the airflow and throw to suit your room design.
- » The utilization of both a DC-style Fan Motor and integrated Condensate Pump allow for improvements in energy consumption as well as lower operating sound levels than other styles of indoor units.
- » This Indoor unit can be set to 5 predetermined fan speeds using the BRC1E73 wired remote controller, which allows for optimum and comfortable airflow.



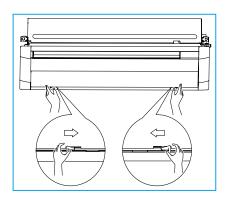


- » A Ventilation Air knock-out is provided to allow up to 15% of the rated airflow through the unit to be pretreated outside air.
- » The innovative "smooth finish" decoration panel design helps to minimize dust and dirt build-up and facilitates easier cleaning.
- » The Indoor Unit is equipped with a factory installed condensate pump with a lift capacity of up to 33-7/16" (measured from the bottom of the unit).
- » The units are equipped with customizable auxiliary heat control settings to facilitate the



31-1/2"







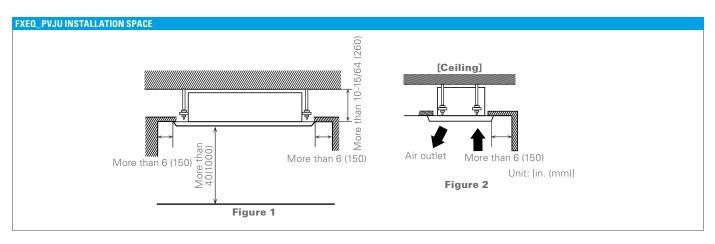
FXEQ_PVJU	SPECIFICAT	TONS		0.6 TON	0.75 TON	1.0 TON	1.25 TON	1.5 TON	2 TON	
Model			FXEQ07PVJU	FXEQ09PVJU	FXEQ12PVJU	FXEQ15PVJU	FXEQ18PVJU	FXEQ24PVJU		
	Powe	r Supply				1 phase 60)Hz 208/230V			
Cooling capacity		*1,*3	Btu/h	7500	9500	12000	15000	18000	24000	
Heating capacity		*2,*3	Btu/h	8500	10500	13500	17000	20000	27000	
	Min. cir	cuit amps (MCA)	А	0.3	0.4	0.4	0.5	0.5	0.7	
Electrical	Max. over	current protection (MOP)	А	15	15	15	15	15	15	
Casing/color		,				Galvanize	ed steel plate			
Dimensions:	(H x W x D)		in.		7-7/ ₈ x 18-3	½ x 33-1-1/16		7-1/8 x 18-1/2	x 48-13/16	
		Туре				Siro	cco fan			
Fan	Air flow rate (Dry coil)	Cooling (H/HM/M/ML/L)	CFM	212/191/173/155/141	244/226/205/187/170	283/265/247/223/194	346/311/276/247/219	441/403/367/336/307	530/481/431/389/346	
Drive				Direct drive						
Sound pressu	Sound pressure level Cooling (H/HM/M/ML/L) dBA			30/29/28/27/26	32/31/30/29/28	35/34/33/32/30	38/37/35/33/31	38/37/35/33/31	43/41/39/37/35	
	Weight		lbs.		38		40	5	1	
Liquid in.			in.	ø ¼ (flare connection)					ø ³ / ₈ (flare connection)	
Piping connections		Gas	in.	ø ½ (flare connection)				ø ⁵ / ₈ (flare connection)		
		Drain	in.			PVC26 (0.D. 1	-1/32 x I.D. 13/16			
Drain pump l	ift		in.				25			
Refrigerant c	ontrol					Electronic e	xpansion valve			
Connectable outdoor unit				R-410A VRV Series						
	Model				i3AW1					
Decoration panel		Color					h White			
(required	Dimensio	ons (H x W x D)	in.		3-3/16 x 21-	3-3/16 x 21-	½ x 53-5/32			
option)		Air filter					th mold resistant)			
1 /	V	Veight	lbs.		1	7.6		2	2	

Note: *1. Nominal cooling capacities are based on the following conditions: return air temperature: 80.0* FDB (26.7*C DB), 67.0* FWB (19.4*CWB), outdoor temperature: 95.0* FDB (35.*C DB) equivalent ref. piping: 25ft. (7.6m) (Horizontal)

^{*3} Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

FXEQ_PVJU ACCESSORIES								
Model	FXEQ07PVJU	FXEQ09PVJU	FXEQ12PVJU	FXEQ15PVJU	FXEQ18PVJU	FXEQ24PVJU		
Name of Option	Note							
Decoration panel			BYEP40AW1 BYEP63AW1					
Wired remote controller			BRC1E73					
Simplified remote controller			BRC2A71					
Remote sensor		KRCS01-4B						
Wiring adaptor printed circuit board	2	KRP1C75						
Group control adaptor printed circuit board	2	KRP4A74						
Adaptor mounting box		KRP1B101						

Note: *1. Electrical box (No.5-1/6-1) is required for controller (No. 5/6) *2. Adaptor mounting box (No.12) is necessary.



^{*2} Nominal heating capacities are based on the following conditions: return air temperature: 70.0° FDB (21.1°C DB), outdoor temperature: 47.0° FDB (8.3°C DB), 43.0° FDB (6.1°C WB) equivalent ref. piping: 25ft. (7.6m) (Horizontal)

FXHQ_MVJUCeiling-Suspended Unit



Slim, Efficient, Quiet, Easy to Maintain

With its slim, elegant design, the FXHQ ceiling-suspended unit is a great fit for any light commercial space. Wide air openings provide a comfortable airflow and an innovative stream fan ensures quiet operation, making it ideal for retail stores, restaurants, classrooms and conference rooms.

Features and Benefits

- » One of our slimmest indoor units (less than 8") fits within any interior design
- » Wide air discharge outlet distributes a comfortable airflow throughout the entire space with throw of up to 25 ft.
- » Innovative stream fan technology keeps sound pressure levels low
- » Smooth flat louver design makes cleaning simple
- » Long-life filter is standard
- » Models range from 12 MBH to 36 MBH











BRC1E73 (option)

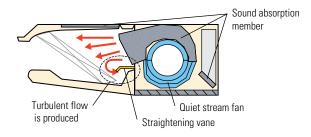
AZAI6WSCDKA (option)

(option)

3RC4C82 (option)

Quiet Stream Fan (side view)

Uses the quiet stream fan and many more advanced technologies.





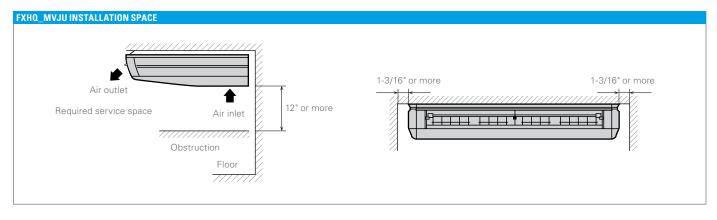
FXHQ_MVJU SPECIFIC	ATIONS		2 TON	3 TON				
Model Name FXHQ12MVJU FXHQ24MVJU FXHQ36I								
Power Supply		V/ph/Hz	208-230/1/60					
Rated Cooling Capacity		BTU/h	12,000	12,000 24,000				
Rated Heating Capacity		BTU/h	13,500 27,000		40,000			
Airflow Rate (H/L)		CFM	410/340	710/600	830/670			
Weight		lbs.	55	80	90			
Height		in.		7-11/16				
Width		in.	37-13/16	55-1/8	62-5/8			
Depth		in.	26-3/4					
Sound Pressure (H/L)		dB(A)	42/33	44/36	46/41			
Condensate Pipe Connect	Condensate Pipe Connection in. O.D.		1					
Pipe Connections	Gas	in.	1/2 (Flare) 5/8 (Flare)					
Tipe Connections	Liquid	in.	1/4 (Flare)	1/4 (Flare) 3/8 (Flare)				
Refrigerant			R-410A					
Refrigerant Control			Electronic Expansion Valve					
Maximum Overcurrent Protective Device A			15					
Minimum Circuit Amps A			0.8	1.0	1.4			
Protection Devices			Fuse and Fan Motor Thermal Protector					
External Finish White Casing								
Standard Filter Type			Resin Net (with Mold Resistant)					

Cooling Mode Indoor: 80 °F DB / 67 °F WB Outdoor: 95 °F DB Pipe Length: 25 ft. Level Difference: 0 ft. Heating Mode Indoor: 70 °F DB Outdoor: 47 °F DB / 43 °F WB Pipe Length: 25 ft. Level Difference: 0 ft.

Note: Specifications are subject to change without notice.

FXHQ_MVJU ACCESSORIES						
Model Name	FXHQ12MVJU	FXHQ24MVJU	FXHQ36MVJU			
Navigation™ Remote Controller*		BRC1E73				
DKN Cloud Wi-Fi Adaptor		AZAI6WSCDKA				
Simplified Wired Remote Controller*	BRC2A71					
Wireless Remote Controller	BRC7E83					
Remote Sensor Kit	KRCS01-1B					
Wiring Adaptor PCB (interface with aux/primary heater, humidifier, OA damper/fan)	per/fan) KRP1C74					
Group Control Adaptor PCB (connects to external BMS)	KRP4A72					
Replacement long-life filter	KAFJ501D112	KAFJ501D160				
Condensate Pump	DACA-CP3-1					

^{*} Optional face plates available to provide a more intuitive user interface and disable specific functions



FXAQ_PVJUWall-Mounted Unit



Stylish, Compact, Convenient, Comfortable

Daikin's wall-mounted units are ideal for cooling or heating smaller zones such as stores, offices, and restaurants. The compact, stylish design lets the unit blend discreetly into any interior design, and airflow can be supplied in any of five different directions and easily programmed via remote control.

Features and Benefits

- » Auto-swing mechanism ensures efficient air distribution via louvers that automatically close when the unit is turned off
- » 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
- » Models range from 7.5 MBH to 24 MBH











BRC1E73 (option)

AZAI6WSCDKA (option)

(option)

BRC4C82 (option)

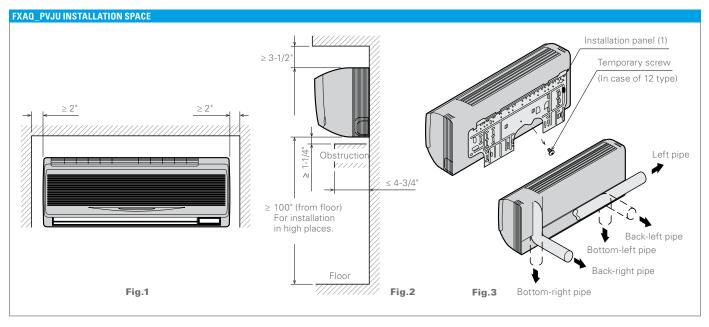


FXAQ_PVJU SPECIFICA	ATIONS		0.6 TON	0.75 TON	1 TON	1.5 TON	2 TON
Model Name			FXAQ07PVJU	FXAQ09PVJU	FXAQ12PVJU	FXAQ18PVJU	FXAQ24PVJU
Power Supply		V/ph/Hz			208-230/1/60		
Rated Cooling Capacity		BTU/h	7,500	9,500	12,000	18,000	24,000
Rated Heating Capacity		BTU/h	8,500	10,500	13,500	20,000	27,000
Airflow Rate (H/L)		CFM	260/160	280/175	290/180	500/400	635/470
Weight		lbs.		26		3	31
Height		in.			11-3/8		
Width		in.		31-1/4		41-	-3/8
Depth in.					9		
Sound Pressure (H/L)		dB(A)	36/31	37/31	38/31	43/37	47/41
Condensate Pipe Connect	ion	in. O.D.	11/16				
Pipe Connections	Gas	in.	1/2 (Flare) 5/8 (Flare				
Tipe Connections	Liquid	in.	1/4 (Flare) 3/8 (Fla				
Refrigerant					R-410A		
Refrigerant Control			Electronic Expansion Valve				
Maximum Overcurrent Protective Device A		15					
Minimum Circuit Amps A			0.4 0.5 0.6				
Protection Devices			Fuse and Fan Motor Thermal Protector				
External Finish					White Casing		·
Standard Filter Type			Resin Net (washable)				

Cooling Mode Indoor: 80 °F DB / 67 °F WB Outdoor: 95 °F DB Pipe Length: 25 ft. Level Difference: 0 ft. Heating Mode Indoor: 70 °F DB Outdoor: 47 °F DB / 43 °F WB Pipe Length: 25 ft. Level Difference: 0 ft. **Note:** Specifications are subject to change without notice.

FXAQ_PVJU ACCESSORIES								
Model Name	FXAQ07PVJU	FXAQ09PVJU	FXAQ12PVJU	FXAQ18PVJU	FXAQ24PVJU			
Navigation™ Remote Controller*	BRC1E73							
DKN Cloud Wi-Fi Adaptor	AZAIGWSCDKA							
Simplified Wired Remote Controller*	BRC2A71							
Wireless Remote Controller	BRC7E818							
Remote Sensor Kit	KRCS01-1B							
Group Control Adaptor PCB (Connects to external BMS)	KRP4A71							
Condensate Pump		DACA-CP1-1						

^{*} Optional face plates available to provide a more intuitive user interface and disable specific functions



FXLQ_MVJU9 Floor-Standing Unit



Versatile, Logical, Durable, Quiet

The ideal way to save space, our floor-standing units can easily be installed along a perimeter wall. The air distribution from these models will allow you to find the right balance for classrooms, churches, office hallways or similar spaces.

Features and Benefits

- » 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
- » Models range from 7.5 MBH to 24 MBH











BRC1E73 (option)

AZAI6WSCDKA (option)

(option)

BRC4C82 (option)



FXLQ_MVJU9 SPECIF	ICATIONS		0.6 TON	0.75 TON	1 TON	1.5 TON	2 TON					
Model Name			FXLQ07MVJU9	FXLQ09MVJU9	FXLQ12MVJU9	FXLQ18MVJU9	FXLQ24MVJU9					
Power Supply		V/ph/Hz			208-230/1/60							
Rated Cooling Capacity		BTU/h	7,500	9,500	12,000	18,000	24,000					
Rated Heating Capacity		BTU/h	8,500	10,500	13,500	20,000	27,000					
Airflow Rate (H/L)		CFM	245,	/210	280/210	490/380	560/420					
Weight		lbs.	5	8	66	3	30					
Height		in.			23-5/8							
Width		in.	39-	3/8	44-7/8	55	-7/8					
Depth		in.		8-3/4								
Sound Pressure (H/L)		dB(A)	35,	/32	36/33	40/35	41/36					
Condensate Pipe Connec	ction	in. O.D.		27/32								
Pipe Connections	Gas	in.	1/2 (Flare) 5/8 (Flare)									
Tipe connections	Liquid	in.	1/4 (Flare) 3/8 (Flare)									
Refrigerant			R-410A									
Refrigerant Control					Electronic Expansion Valve							
Maximum Overcurrent Protective Device		А			15							
Minimum Circuit Amps		А	0	.3	0.5	0	.6					
Protection Devices				Fus	e and Fan Motor Thermal Prote	ctor						
External Finish					Ivory White Casing							
Standard Filter Type					Resin Net (with Mold Resistant							

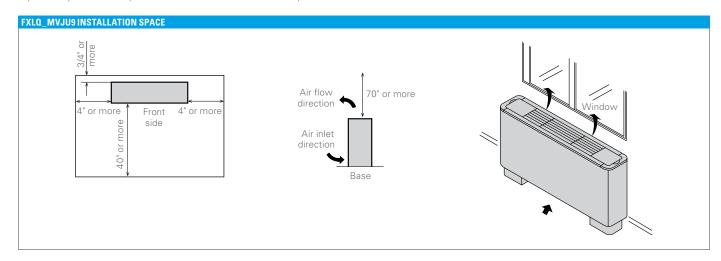
Nominal Conditions:

Cooling Mode Indoor: 80 °F DB / 67 °F WB Outdoor: 95 °F DB Pipe Length: 25 ft. Level Difference: 0 ft. Heating Mode Indoor: 70 °F DB Outdoor: 47 °F DB / 43 °F WB Pipe Length: 25 ft. Level Difference: 0 ft.

Note: Specifications are subject to change without notice.

FXLQ_MVJU9 ACCESSORIES									
Model Name	FXLQ12MVJU9	FXLQ18MVJU9	FXLQ24MVJU9	FXNQ12MVJU9	FXNQ18MVJU9	FXNQ24MVJU9			
Navigation™ Remote Controller*	BRC1E73								
DKN Cloud Wi-Fi Adaptor			AZAI6V	VSCDKA					
Simplified Wired Remote Controller*	BRC2A71								
Wireless Remote Controller			BRC	4C82					
Remote Sensor Kit	KRCS01-1B								
Wiring Adaptor PCB (interface with aux/primary heater, humidifier, OA damper/fan)	KRP1C74								
Group Control Adaptor PCB (connects to external BMS)	KRP4A71								

^{*} Optional face plates available to provide a more intuitive user interface and disable specific functions



Daikin Zoning Kit

Kits and Accessories



TThe 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 iTMTM and iTCTM.

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 3rd generation DZK introduces all new, redesigned Wired and Wireless thermostats. The revised form factor offers a slim profile and capacitive touch capability 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.

DZK BACnet Interface

If VRV systems are installed with the DZK system to accomplish a variety of zoning solutions and there is a requirement to be able



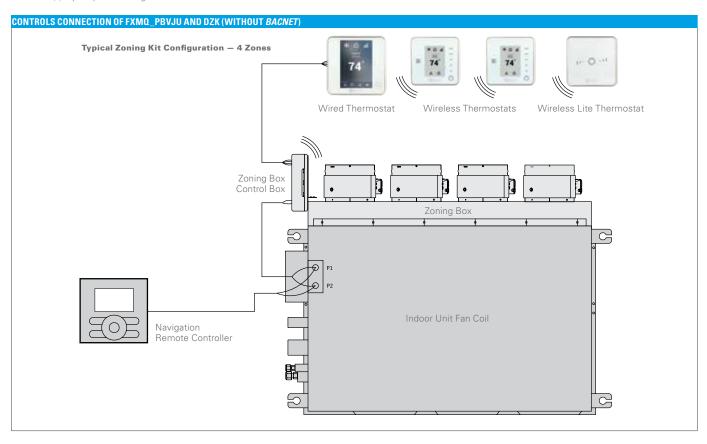
to monitor and control the various DZK zone dampers from a centralized control system, it is possible to utilize the DZK *BACnet* Interface to address this solution.

The DZK *BACnet* Interface will work with any *BACnet*/IP compatible Building Management System.

DAIKIN ZONII	NG KIT (DZK)	- GENERAL TE	CHNICAL DAT	A							
DZK Model		DZKS015E3-3	DZKS015E4-3	DZKS030E4-3	DZKS030E5-3	DZKS048E4-3	DZKS048E6-3	DZK030E4-3	DZK030E5-3	DZK048E4-3	DZK048E6-3
Height	in.	9-5/8	9-5/16	9-5/8	9-5/16	9-5/8	9-5/16	10-7/16	10-1/4	10-7/16	10-1/4
Width	in.	34-	34-3/16 43-5/8 53-7/16 43-9/16 53-7/16								
Depth	in.						10-7/16				
Weight	lb.	16	18	18	20	18	23	18	20	20	23
No. of Zones		3	4	4	5	4	6	4	5	4	6
Ø of Outlets	in.	8	6	8	6	8	6	8	6	8	6
Davier	VAC					11	10/230 VAC				
Power Supply	ph						1				
Supply	Hz						60				

DAIKIN ZONING KIT (DZK) - COMPATIBILITY										
VRV Indoor Unit	DZK S015E4-3	DZKS015E4-3	DZK S030E4-3	DZK S030E5-3	DZK S048E4-3	DZKS048E6-3	DZK030E4-3	DZK030E5-3	DZK048E4-3	DZK048E6-3
FXSQ15TAVJU										
FXSQ18/24/30TAVJU										
FXSQ36/48TAVJU										
FXMQ15/18/24PBVJU										
FXMQ30/36/48/54PBVJU										
DZK-MTS-3-W*						•			•	
DZK-ZTS-3-W						•			•	
DZK-LTS-3-W										
DZK-BACNET-3										

^{*}Minimum (1) required per DZK Zoning Kit







Outdoor Units



Outdoor Units



Air-Cooled Condensers

URU IV X

VRV IV X Heat Recovery

6 to 38 Tons 208-230V/60Hz/3ph or 460V/60Hz/3ph

Engineered and assembled in North America Daikin's VRV IV X adapts VRV



to North American HVAC market needs by expanding the applications in which VRV can be leveraged to solve traditional challenges. Packed with advanced technology, VRV IV X is the industry's first 3-phase variable refrigerant flow system with dual-fuel capability, after Daikin's launch of 1-phase VRV LIFE™ in 2018. The new series is equipped with features to optimize initial capital required on phased installations and provides ease of service and maintenance.

YRY VRV AURORA™ Heat Recovery & Heat Pump

6 to 20 Tons 208-230V/60Hz/3ph 460V/60Hz/3ph

Daikin VRV AURORA Series systems introduce a new benchmark for variable

refrigerant flow technology by integrating advanced technologies to provide comfort, control, energy efficiency and reliability. The Daikin VRV AURORA Series systems set a new industry standard for heating and cooling solutions by delivering high heat capacities at low ambient applications.

- » variable refrigerant flow 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 return¹
- » Engineered with Daikin vapor injection compressor for optimized part load efficiencies

YRY IV Heat Pump & Heat Recovery

6 to 382 Tons 208-230V/60Hz/3ph 460V/60Hz/3ph

Daikin's VRV IV systems integrate advanced technology to provide comfort control to help maximize energy efficiency and reliability. Currently available in heat



pump and heat recovery 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 system to be assembled in North America.

VRV IV S-series

3, 4 and 5 Tons 208-230V/60Hz/1ph

The VRV IV S-series system is a highly efficient solution for light commercial buildings and residential applications requiring heating and cooling of up to 9 zones. Space-saving design to fit in



tight areas and realize quick and easy installation. Single-supplier reliability. The system — factory engineered and 80% complete upon delivery — is fully optimized by Daikin.

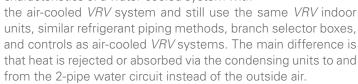
Water-Cooled Condensers

VRV

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

6[†] to 36 Tons 208-230V/60Hz/3ph or 460V/60Hz/3ph

The VRV Water-Cooled system combines the characteristics of a water-cooled system with



- » 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 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
 - ¹ Multi module heat recovery systems only for continuous heating during defrost
 - ² Maximum 34 tons for Heat Pump
 - [†] 6-ton model (RWEYQ72PC) is PC series. T and PC series models cannot be combined to form multi-module systems
 - ^{††} Conditions/rules apply. Refer to Installation and Engineering Manual for further details



VRV IV X Air-Cooled Heat Recovery



Engineered and assembled in North America, Daikin's VRV IV X adapts VRV to North American HVAC market needs by expanding the applications in which VRV can be leveraged to solve traditional challenges. Packed with advanced technology, VRV IV X is the industry's first 3-phase variable refrigerant flow system with dual-fuel capability, after Daikin's launch of 1-phase *VRV* LIFETM in 2018. The new series is equipped with features to optimize initial capital required on phased installations and provides ease of service and maintenance.

Features and Benefits

- » Adapting VRV to North American market needs
 - Industry's first 3-phase variable refrigerant flow system to integrate with communicating gas furnaces.
 - Design flexibility to enlarge system from single to dual module or dual to triple module without change to installed main pipe sizes¹.
 - Engineered to optimize capital on phased and tenant fit out commercial buildings.
 - Choice of gas furnace or heat pump heating for optimizing operational costs based on utility cost.
 - Year round comfort and energy savings with Variable Refrigerant Temperature (VRT) technology.

» Technology that matters

- Engineered with Daikin's patented vapor injection compressor technology.
- Corrosion resistant up to 1000† hours Daikin Blue Fin coating as factory standard.
- Heat exchanger engineered with a bottom refrigerant circuit that allows installation without base pan heater.
- Refrigerant cooled inverter technology keeps PCB cool independent of ambient temperature.
- Increased¹ applied cooling and heating capacities with improved pipe correction factors (compared to the previous VRV IV generation).

» Engineered for maintenance

- 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.
- Multi-functional display eliminates the need to connect gauges during regular maintenance checks.
- Ease of commissioning with ability to program off site and upload using configurator tool.

URU IV X



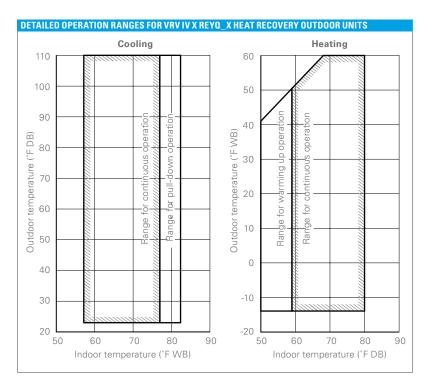
- Field performable intermittent outdoor fan operation to help minimize snow accumulation on fan blades when the system is in thermal off.
- Seamless integration with T-series branch selector boxes, M, P, and T-series indoor units.
- Compatible with the full suite of Daikin VRV controls.
- Outstanding 10-Year Parts Warranty* as standard.
- * Complete commercial warranty details available from your local distributor or manufacturer's representative or at www.daikincomfort.com or www.daikinac.com
- $^{\scriptscriptstyle \dagger}$ When testing in accordance to ASTM B117 methodology.
- ¹ Refer to engineering manuals for design rules and pipe sizes.

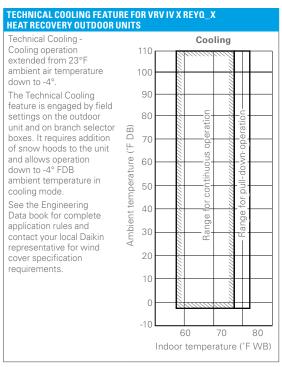




VRV IV X CERTIFIE	ED DATA -	HEAT REC	OVERY, 20	8-230V/60	HZ/3PH, 4	60 V /60HZ	/3PH									
Product#	Capacity (Tons)	IEER Non-Ducted	IEER Ducted	IEER Mixed	SCHE Non-Ducted	SCHE Ducted	SCHE Mixed	COP @ 47°F Non-Ducted	COP @ 47°F Ducted	COP @ 47°F Mixed	COP @ 17°F Non-Ducted	COP @ 17°F Ducted	COP @ 17°F Mixed	EER Non-Ducted	EER Ducted	EERMixed
REYQ72XA	6	25.20	21.30	23.25	26.10	22.00	24.05	4.30	3.68	3.99	2.50	2.25	2.38	15.80	13.90	14.85
REYQ96XA	8	27.80	21.90	24.85	26.40	21.10	23.75	4.23	3.56	3.90	2.63	2.31	2.47	14.60	12.50	13.55
REYQ120XA	10	25.50	22.60	24.05	26.00	22.00	24.00	3.81	3.48	3.65	2.54	2.28	2.41	13.20	12.30	12.75
REYQ144XA	12	23.50	21.60	22.55	25.50	22.00	23.75	3.75	3.42	3.59	2.16	2.12	2.14	11.90	11.60	11.75
REYQ168XA	14	22.30	20.40	21.35	25.50	22.20	23.85	3.49	3.24	3.37	2.08	2.05	2.07	10.70	10.60	10.65
REYQ192XA	16	22.60	21.40	22.00	26.60	22.80	24.70	3.85	3.67	3.76	2.50	2.37	2.44	13.00	13.00	13.00
REYQ216XA	18	23.10	21.70	22.40	25.50	21.90	23.70	3.76	3.52	3.64	2.34	2.20	2.27	12.40	12.30	12.35
REYQ240XA	20	22.20	20.00	21.10	25.60	21.80	23.70	3.68	3.39	3.54	2.34	2.16	2.25	11.60	11.70	11.65
REYQ264XA	22	21.60	18.00	19.80	26.10	18.20	22.15	3.62	3.20	3.41	2.22	2.07	2.15	11.20	10.40	10.80
REYQ288XA	24	21.00	17.90	19.45	23.30	19.90	21.60	3.51	3.20	3.36	2.20	2.06	2.13	11.00	10.30	10.65
REYQ312XA	26	20.40	18.00	19.20	24.30	20.70	22.50	3.56	3.20	3.38	2.09	2.05	2.07	10.10	9.90	10.00
REYQ336XA	28	20.00	17.30	18.65	23.30	19.80	21.55	3.53	3.20	3.37	2.12	2.05	2.09	9.90	9.50	9.70
REYQ360XA	30	20.00	18.80	19.40	23.00	19.40	21.20	3.56	3.20	3.38	2.25	2.10	2.18	10.90	10.60	10.75
REYQ384XA	32	19.00	17.60	18.30	21.90	17.00	19.45	3.21	3.20	3.21	2.22	2.06	2.14	9.70	9.90	9.80
REYQ408XA	34	17.20	17.70	17.45	21.80	18.30	20.05	3.21	3.20	3.21	2.09	2.05	2.07	9.80	9.70	9.75
REYQ432XA	36	16.20	17.30	16.75	20.20	18.10	19.15	3.21	3.20	3.21	2.08	2.06	2.07	9.80	9.70	9.75
REYQ456XA	38	16.20	16.70	16.45	18.80	17.90	18.35	3.21	3.20	3.21	2.07	2.05	2.06	9.30	9.50	9.40

Certified efficiency data in accordance with ANSI/AHRI Standard 1230 2014, "Performance Rating of Variable Refrigerant Flow Multi-Split Air Conditioning and Heat Pump Equipment" for the VRV Series. The VRV IVX Series has been designed and optimized to meet or exceed the latest minimum efficiency requirements in 10 C.F.R. Part 431 as determined by the U.S. Department of Energy (DOE) and baseline efficiencies as defined by ASHRAE 90.1 2016. Systems under 65MBH are currently certified to AHRI 210/240. IEER ratings are as defined in ASHRAE 90.1 2016.





VRV IV X Air-Cooled Heat Recovery (cont.)



			C Tan	0 T	S 10 Top	10 Tan	14 Tan	10 Tan	10 Tan	20 Tan				
	200 220\//205 /005	i-	6 Ton	8 Ton	10 Ton	12 Ton	14 Ton	16 Ton	18 Ton	20 Ton				
	208-230V/3Ph/60H 460V/3Ph/60Hz	1Z		REYQ96XATJU REYQ96XAYDU		REYQ144XATJU	REYQ168XATJU REYQ168XAYDU	REYQ192XATJU REYQ192XAYDU	REYQ216XATJU REYQ216XAYDU	REYQ240XATJU REYQ240XAYDU				
odel	Combination		NETU/ZXATDO	NETUSONATOO	RETUIZUXATDO	NETUI44XATDO	NETGIOSXATDO	2xREYQ96XA	1 x REYQ96XA 1 x REYQ120XA	2 x REYQ120XA				
	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	129,000	154,000	180,000	206,000	232,000	256,000				
	Standard Operation Range Cooling	°F (°C) DB		23 to 122										
rformance	Standard Operation Range Heating	°F (°C) WB				-13 t	o 60							
	Sound Pressure	dB(A)	65	65	65	66	66	68	68	68				
	Airflow	CFM	7283	7989	7989	9480	9480	7989 + 7989	7989 + 7989	7989 + 7989				
	Fan ESP, Standard/Max	in. W.G.				0.12 /	0.32							
	Compressors, all inverter	Qty			1				2					
ompressor	Revolutions per minute	RPM	3738	5142	6888	5214	6330	5214 + 5214	5994 + 5994	6702 + 6702				
	Capacity Control Range	%	15-100	13-100	11-100	14-100	12-100	6-100	6-100	5-100				
	Maximum Vertical Pipe Length Above Unit	ft.				164 (295 With	Field Setting)							
	Maximum Vertical Pipe Length Below Unit	ft.		130 (195 With Field Setting)										
Refrigerant Piping,	Maximum Vertical Pipe Length Between IDU	ft.		100										
ayout	Maximum Actual Pipe Length	ft.		541										
	Maximum Equivalent Pipe Length	ft.		620										
	Maximum Total Pipe Length	ft.				3,2	280							
	Liquid Pipe, Main Line	in.	3/8	3/8	1/2	1/2	5/8	5/8	5/8	5/8				
Refrigerant Piping,	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				
Connections	Discharge Gas Pipe, Main Line	in.	5/8	3/4	3/4	7/8	7/8	1-1/8	1-1/8	1-1/8				
Connection	Standard Connectable Indoor Unit Ratio	%	70 - 200¹				50 - 200¹							
Ratio	Maximum Number of Indoor Units	Qty	12	16	20	25	29	33	37	41				
	Maximum Overcurrent Protection, MOP (208-230v/460v)	А	45 / 25	45 / 25	50 / 25	70 /40	70 /40	45 + 45 / 25 + 25 /	45 + 50 / 25 + 25 /	50 + 50 / 25 + 25 /				
Electrical	Minimum Circuit Amps, MCA (208-230v/460v)	А	38.1 / 18.9	38.1 / 21.1	43.0 / 21.1	58.3 / 27.9	61.9 / 31.1	38.1 + 38.1 / 21.1 + 21.1 /	38.1 + 43.0 / 21.1 + 21.1 /	43.0+ 43.0 / 21.1 + 21.1 /				
	Compressor Rated Load Amps, (208-230v/460v)	А	20.8 / 9.4	23.3 / 10.5	28.2 / 12.8	42.6 / 19.3	49.0 / 22.2	24.7 + 24.7 / 11.2 + 11.2 /	28.5 + 28.5 / 12.9 + 12.9 /	29.0 + 29.0 / 13.5 + 13.5 /				
	Factory Refrigerant Charge	lbs.			25.8				25.8 + 25.8					
Unit	Weight	lbs.	727	727	727	793	793	727 + 727	727 + 727	727 + 727				
	Dimensions (H x W x D)	in.		66	-11/16 x 48-7/8 x 30	-3/16			/16 x 48-7/8 x 30-3 1/16 x 48-7/8 x 30-	, -				

Varies based on indoor model selected ²35.5 ton for REYQ432TAYCU

OPERATIO	N RANGE FOR ALL VRV IV X HEAT I	RECOVERY OUTDOOR UNITS
Cooling °F D	В	-4* - 122
Heating °F \	VB	-13 – 60

^{*}Application rules apply



22 Ton	24 Ton	26 Ton	28 Ton	30 Ton	32 Ton	34 Ton	36 Ton ²	38 Ton					
REYQ264XATJU	REYQ288XATJU	REYQ312XATJU	REYQ336XATJU	REYQ360XATJU	REYQ384XATJU	REYQ408XATJU	REYQ432XATJU	REYQ456XATJU					
REYQ264XAYDU	REYQ288XAYDU	REYQ312XAYDU	REYQ336XAYDU	REYQ360XAYDU	REYQ384XAYDU	REYQ408XAYDU	REYQ432XAYDU	REYQ456XAYDU					
1 x REYQ120XA 1 x REYQ144XA	2 x REYQ144XA	1 x REYQ144A 1 x REYQ168XA	2 x REYQ168XA	3 x REYQ120XA	2 x REYQ120XA 1 x REYQ144XA	1 x REYQ120XA 2 x REYQ144XA	3 x REYQ144XA	2 x REYQ144XA 1 x REYQ168XA					
252,000	274,000	296,000	320,000	342,000	364,000	388,000	410,000	430,000					
282,000	294,000	320,000	338,000	376,000	386,000	394,000	405,000	414,000					
				23 to 122									
				-13 to 60									
69	69	69	69	70	71	71	71	71					
7989 + 9480	9480 + 9480	9480 + 9480	9480 + 9480	7989 + 7989 + 7989	7989 + 7989 + 9480	7989 + 9480 + 9480	9480 + 9480 + 9480	9480 + 9480 + 9480					
				0.12 / 0.32									
0504 - 5014	2		FCC4 - FCC4	0000 - 0000 - 0000	C400 - C400 - F070	3	4250 - 4250 - 4250	4470 + 4470 + 4470					
6504 + 5214 5-100	4794 + 4794 7-100	5286 + 5286 7-100	5664 + 5664 6-100	6606 + 6606 + 6606 4-100	6426 + 6426 + 5070 3-100	6162 + 4470 + 4470 3-100	4350 + 4350 + 4350 5-100	4-100					
3-100	7-100	7-100		64 (295 With Field Sett		3-100	3-100	4-100					
			1	30 (195 With Field Sett	ing)								
	100												
				541									
				620									
				3,280									
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					
1-1/8	1-1/8	1-1/8	1-1/8	1-3/8	1-3/8	1-3/8	1-3/8	1-3/8					
	J.	I	l	50 - 200¹		l							
45	49	54	58			64							
50 + 70 / 25 + 40	70 + 70 / 40 + 40	70 + 70 / 40 + 40	70 + 70 / 40 + 40	50 + 50 + 50 / 25 + 25 + 25	50 + 50 + 70 / 25 + 25 + 40	50 + 70 + 70 / 25 + 40 + 40	70 + 70 + 70 / 40 + 40 + 40	70 + 70 + 70 / 40 + 40 + 40/					
43.0+58.3 / 21.1 + 27.9	58.3+ 58.3 / 27.9 + 27.9	58.3+61.9 / 27.9 + 31.1	61.9+ 61.9 / 31.1 + 31.1	43.0+ 43.0 + 43.0 / 21.1 + 21.1 + 21.1	43.0+43.0+58.3/ 21.1+21.1+27.9	43.0 + 58.3 + 58.3/ 21.1 + 27.9 + 27.9	58.3 + 58.3 + 58.3/ 27.9 + 27.9 + 27.9	58.3 + 58.3 + 61.9/ 27.9 + 27.9 + 31.1 /					
32.9 + 42.1 /	43.5 + 43.5 /	46.5 + 46.5 /	50.1 + 50.1 /	32.7 + 32.7 + 32.7 /	33.8 + 33.8 + 43.7 /	35.7 + 45.1 + 45.1 /	45.1 + 45.1 + 45.1 /	47.0 + 47.0 + 47.0 /					
14.9 + 19.0	19.7 + 19.7	21.0 + 21.0	22.7 + 22.7	14.8 + 14.8 + 14.8	15.3 + 15.3 + 19.8	16.2 + 20.4 + 20.4	20.4 + 20.4 + 20.4	21.3 + 21.3 + 21.3					
	25.8+			25.8 + 25.8 + 25.8									
727 + 793	793 + 793	793 + 793	793 + 793	727 + 727 + 727	727 + 727 + 793	727 + 793 + 793	793 + 793 + 793	793 + 793 + 793					
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 + 66-11/16 x 48-7/8 x 30-3/16													

For additional technical information please refer to specific Engineering Data Books.



VRV IV X

Indoor Units 80-97% AFUE Communicating Gas Furnace

Features

- » Compatible with VRV IV X outdoor units. Available from 60,000 Btu up to 120,000 Btu
- » Durable heat exchanger Unique tubular stainless-steel construction formed using wrinkle-bend technology results in an extremely durable heat exchanger. Paired with a stainless-steel secondary heat exchanger, this combination provides for reliability, durability and efficiency.
- » Modulating gas valve Operates between 35% 100% capacity, providing precise efficiency and the ultimate in comfort.
- » Continuous air circulation Provides filtration and keeps air moving throughout your home to help maintain comfort.
- » Self-diagnostic control board continuously monitors the system for consistent, reliable operation.
- » Quiet, variable-speed induced draft blower provides precise control and enhanced energy-efficient performance as compared to single-speed blowers.



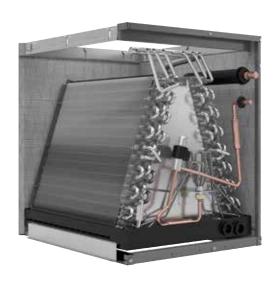


COMFORTABLE LIMITED WARRANTY* PROTECTION

10 YEAR PARTS
COMMERCIAL
WARRANTY

* Complete commercial warranty details available from your local dealer/contractor or at www.daikincomfort.com. To receive the 10-Year Parts Limited Warranties, online registration must be completed within 60 days of installation Online registration and some of the additional requirements are not required in California or Quebec.

VRV IV X VRV A-Coil CXTQ_TASBLU



CXTQ All Aluminum Coil

- » Available in 2, 3, 4, and 5-Ton capacities
- » Engineered for VRV IV X outdoor unit
- » Factory installed electronic expansion valve with PID control loop for precision capacity control
- » Seamless integration to full suite of Daikin controls using onboard control board
- » Air cleaner and humidifier integration capable¹
- » UV and rust resistant, 5VA rated thermoplastic drain pan with integrated secondary drain
- » Foil-faced insulation covers internal casing to reduce cabinet condensation
- » Split seam front for easy installation and service access
- » Light weight all aluminum evaporator coil
- » Ships factory standard up flow with easy field conversion to downflow¹
- » Backed by a 10-Year Parts Limited Warranty* ¹Rules apply, refer to installation manual for details.

INDOOR - C	XTQ											
	Model Name		CXTQ24TASBLU	CXTQ36TASBLU	CXTQ48TASBLU	CXTQ60TASBLU						
Power Suppl	У		24VAC from gas furnace									
Nominal Ton	S		2	3	4	5						
*1,*3 Cooling	g Capacity	Btu/h (kW)	24,000 (7.0)	36,000 (10.6)	48,000 (14.1)	60,000 (17.6)						
*2,*3 Heatin	g Capacity	Btu/h (kW)	27,000 (7.9)	40,000 (11.7)	54,000 (15.8)	66,000 (19.4)						
Casing / Cold	or			Daikin	Slate Gray							
Dimensions (H x W x D)		in. (mm)	22-1/16 x 17-23/32 x 24-7/32 (560 x 450 x 615)	30-1/16 x 24-23/32 x 24-7/32 (764 x 628 x 615)								
Coil	Туре			Cased Upflow	//Downflow A-coil							
COII	*4 Air pressure drop	in w.g.	0.089"	0.240"	0.310"	0.329"						
Weight		lbs (kg)	46 (20.9)	52 (23.6)	72 (32.7)	79 (35.8)						
Dina	Liquid	in. (mm)	3/8" (9.5)	3/8" (9.5)	3/8" (9.5)	3/8" (9.5)						
Pipe Connections	Gas	in. (mm)	5/8" (15.8)	5/8" (15.8)	5/8" (15.8)	5/8" (15.8)						
COMMECTIONS	Drain in. (mm)		3/4" (19.1)	3/4" (19.1)	3/4" (19.1)	3/4" (19.1)						
Safety devic	es		Fuse									
Refrigerant (Control		Electronic Expansion Valve									
Connectible	Outdoor Unit		VRV IV X									



Daikin VRV AURORA™ Heat Recovery 208-230V & 460V



Daikin VRV AURORA Series heat recovery systems introduce a new benchmark for variable refrigerant flow system technology by integrating advanced technologies to provide comfort, control, energy efficiency and reliability. The Daikin VRV AURORA Series heat recovery systems set a new industry standard for heating and cooling solutions by delivering high heat capacities at low ambient applications.

Features and Benefits

- » Variable refrigerant flow system Industry's first air-cooled system that delivers heating down to -22°F (-30°C) as standard
- » Daikin's inverter based vapor injection compressor is designed to deliver heating capacity of up to 100% of nominal at 0°F (-18°C), up to 85% of nominal at -13°F (-25°C) and up to 60% of nominal at -22°F (-30°C)
- » Optimized efficiencies delivered by dedicated allinverter compressors and inverter fan motors
- » Refrigerant-cooled efficient and stable inverter board operation, independent of ambient conditions
- » Hot gas base pan circuit allows installation without an additional drain pan heater
- » Designed to provide continuous heating during defrost and oil return**
- » Engineered with Daikin vapor injection compressor for optimized part load efficiencies
- » Added peace of mind with Auto Changeover ability to back up (auxiliary) heat



Applications:











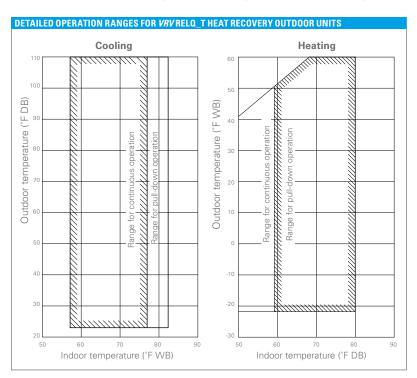


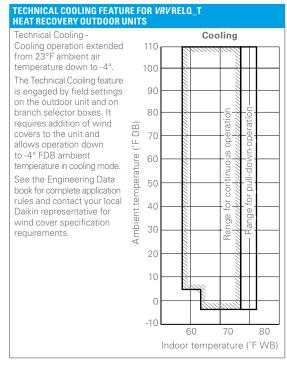
- » Long pipe lengths up to 1640 ft total and ability to connect up to 41*** indoor units with up to 100 ft vertical separation between indoor units provides design and installation flexibility
- » Corrosion resistant, 1000 hours salt spray tested Daikin PE blue fin heat exchanger
- » Ships factory standard with coil guards
- » Outstanding 10-Year Parts Warranty* as standard.
- * Complete commercial warranty details available from your local distributor or manufacturer's representative or at www.daikincomfort.com or www.daikinac.com.
- **Multi modules only for continuous heating during defrost
- ***Varies by model



VRV AURO	RA™ HEA	T RECOVER	RY CERTIFI	ED DATA -	HEAT REC	OVERY, 208	3-230V/60H	IZ/3PH AN	D 460V/60I	HZ/3PH						
Product#	Capacity (Tons)	IEER Non-Ducted	IEER Ducted	IEER Mixed	SCHE Non-Ducted	SCHE Ducted	SCHE Mixed	COP @ 47°F Non-Ducted	COP @ 47°F Ducted	COP @ 47°F Mixed	COP @ 17°F Non-Ducted	COP @ 17°F Ducted	COP @ 17°F Mixed	EER Non-Ducted	EER Ducted	EER Mixed
RELQ72T	6	24.00	20.80	22.40	26.10	22.60	24.30	4.30	3.68	3.99	2.50	2.30	2.40	15.80	13.70	14.70
RELQ96T	8	24.80	19.10	21.90	25.70	19.70	22.70	4.23	3.42	3.83	2.50	2.25	2.37	15.30	12.50	13.90
RELQ120T	10	23.40	19.60	21.50	26.70	21.10	24.00	3.98	3.51	3.74	2.25	2.25	2.25	13.70	12.40	13.00
RELQ144T	12	22.50	18.60	20.50	25.50	23.80	24.60	3.81	3.55	3.68	2.20	2.20	2.20	12.90	12.60	12.70
RELQ192T	16	22.10	19.00	20.50	25.50	21.20	23.30	3.85	3.57	3.71	2.20	2.15	2.17	12.50	12.70	12.60
RELQ240T	20	21.10	18.60	19.80	24.90	20.80	22.80	3.68	3.49	3.59	2.20	2.13	2.16	12.30	11.70	12.00

Certified efficiency data in accordance with ANSI/AHRI Standard 1230 2014, "Performance Rating of Variable Refrigerant Flow Multi-Split Air Conditioning and Heat Pump Equipment" for the VRV Series. The VRV AURORA Series has been designed and optimized to meet or exceed the latest minimum efficiency requirements in 10 C.F.R. Part 431 as determined by the U.S. Department of Energy (DOE) and baseline efficiencies as defined by ASHRAE 90.1 2016. Systems under 65MBH are currently certified to AHRI 210/240. IEER ratings are as defined in ASHRAE 90.1 2016.

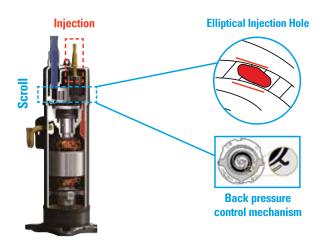




Daikin VRV AURORA™

Heat Recovery 208-230 & 460V (cont.)





- » Compressor technology with new spiral design and injection valves for precise refrigerant control
- » Strong and efficient motors for optimized compressor performance and part load efficiencies
- » Patented back pressure control mechanism to minimize scroll pressure losses

	FOR <i>VRV AURORA</i> RELQ_TATJU/TAYDU HEAT RECOVERY OUTDOOR UN		6 Ton	8 Ton	10 Ton	
	208-230V/3Ph/60Hz		RELQ72TATJU	RELQ96TATJU	RELQ120TATJU	
Model	460V/3Ph/60Hz		RELQ72TAYDU	RELQ96TAYDU	RELQ120TAYDU	
Model	Combination		HELUIZIAIDO	HELUJOTATOO	HELUIZOTATOO	
	Rated Cooling Capacity	BTU/h	69,000	92.000	114.000	
	Rated Heating Capacity	BTU/h	77,000	103.000	129.000	
	Operation Range Cooling	°F (°C) DB	77,000	23¹ to 122	123,000	
	Operation Range Heating	°F (°C) WB		-22 to 60		
Performance	Sound Pressure	dB(A)	60	61	64	
	Airflow (Cooling)	CFM	6956	7989	8806	
	Airflow (Heating)	CFM	7283	7283	7283	
	Fan ESP. Standard/Max	in. Wg	7200	0.12 / 0.32	7200	
	Compressors, all inverter	Qty		1		
Compressor	Revolutions per minute	RPM	3738	3342	4350	
onihiessoi	Capacity Control Range	%	11~100	10~100	9~100	
	Maximum Vertical Pipe Length Above Unit	ft.		164 (295 With Field Sett		
	Maximum Vertical Pipe Length Below Unit	ft.		131 (195 With Field Setti		
lefrigerant Piping,	Maximum Vertical Pipe Length Between IDU	ft.	100			
ayout	Maximum Actual Pipe Length	ft.	541			
.,	Maximum Equivalent Pipe Length	ft.	620			
	Maximum Total Pipe Length	ft.		1,640		
	Liquid Pipe (Main Line)	in.	3/8	3/8	1/2	
efrigerant Piping,	Suction Gas Pipe (Main Line)	in.	3/4	7/8	1-1/8	
onnections	Discharge Gas Pipe (Main Line)	in.	5/8	3/4	3/4	
	Standard Connectable Indoor Unit Ratio	%	·	70 - 200 ²		
Connection Ratio	Maximum Number of Indoor Units	Qty	12	16	20	
	Maximum Overcurrent Protection, MOP (RELQ_TATJU / RELQ_TAYDU)	A	70 / 35	80 / 45	90/50	
lectrical	Minimum Circuit Amps, MCA (RELQ_TATJU / RELQ_TAYDU)	A	60.8 / 28.1	76.5 / 39.8	83.4 / 43.4	
	Compressor Rated Load Amps, RLA (RELQ_TATJU / RELQ_TAYDU)	A	20.7 / 9.4	36.8 / 16.6	39.3 / 17.8	
	Factory Refrigerant Charge	lbs.		25.8		
Init	Weight	lbs.	727	793	793	
	Dimensions (H x W x D)	in.		66-11/16 X 48-7/8 X 30-3	3/16	

¹ Cooling operation can be extended down to -4°F with application rules and conditions

² Varies based on indoor model selected

			12 Ton	16 Ton	20 Ton
	208-230V/3Ph/60Hz		RELQ144TATJU	RELQ192TATJU	RELQ240TATJU
Model	460V/3Ph/60Hz		RELQ144TAYDU	RELQ192TAYDU	RELQ240TAYDU
	Combination		2 x RELQ72T	2 x RELQ96T	2 x RELQ120T
	Rated Cooling Capacity	BTU/h	138,000	184,000	228,000
	Rated Heating Capacity	BTU/h	154,000	206,000	256,000
	Operation Range Cooling	°F (°C) DB		231 to 122	
Performance	Operation Range Heating	°F (°C) WB		-22 to 60	
remonnance	Sound Pressure	dB(A)	63	64	67
	Airflow (Cooling)	CFM	7283 + 7283	7989 + 7989	8806 + 8806
	Airflow (Heating)	CFM	6956 + 6956	7283 + 7283	7283 + 7283
	Fan ESP, Standard/Max	in. Wg		0.12 / 0.32	
	Compressors, all inverter	Qty		2	
Compressor	Revolutions per minute	RPM	3786 + 3786	3294 + 3294	4230 + 4230
	Capacity Control Range	%	6~100	5~100	4~100
	Maximum Vertical Pipe Length Above Unit	ft.	16	4 (295 With Field Setting	1)
	Maximum Vertical Pipe Length Below Unit	ft.	13	1 (195 With Field Setting)
Refrigerant Piping,	Maximum Vertical Pipe Length Between IDU	ft.		100	
Layout	Maximum Actual Pipe Length	ft.		541	
	Maximum Equivalent Pipe Length	ft.		620	
	Maximum Total Pipe Length	ft.		1,640	
Defiles and Distant	Liquid Pipe (Main Line)	in.	1/2	5/8	5/8
Refrigerant Piping, Connections	Suction Gas Pipe (Main Line)	in.	1-1/8	1-1/8	1-3/8
Connections	Discharge Gas Pipe (Main Line)	in.	7/8	1-1/8	1-1/8
Connection Ratio	Standard Connectable Indoor Unit Ratio	%		70 - 200²	
Connection hatto	Maximum Number of Indoor Units	Qty	25	33	41
	Maximum Overcurrent Protection, MOP (RELQ_TATJU / RELQ_TAYDU)	А	70 + 70 / 35 + 35	80 + 80 / 45 + 45	90 + 90 / 50+ 50
Electrical	Minimum Circuit Amps, MCA (RELQ_TATJU / RELQ_TAYDU)	А	60.8 + 60.8 / 28.1 + 28.1	76.5 + 76.5 / 39.8 + 39.8	83.4 + 83.4 / 43.4 + 43.4
	Compressor Rated Load Amps, RLA (RELQ_TATJU / RELQ_TAYDU)	А	21.6 + 21.6 / 9.8 + 9.8	38.1 + 38.1 / 17.3 + 17.3	40.4 + 40.4 / 18.3 + 18.3
	Factory Refrigerant Charge	lbs.		25.8 + 25.8	
Unit	Weight	lbs.	2 x 727	2 x 793	2 x 793
	Dimensions (H x W x D)	in.	66-11/16 X 48-7/8	X 30-3/16 + 66-11/16 X 4	I8-7/8 X 30-3/16

Daikin VRV AURORA™ Heat Pump 208-230V & 460V



Daikin *VRV AURORA* Series systems introduce a new benchmark for variable refrigerant flow system technology by integrating advanced technologies to provide comfort, control, energy efficiency and reliability. The Daikin *VRV AURORA* Series systems set a new industry standard for heating and cooling solutions by delivering high heat capacities at low ambient applications.

Features and Benefits

- » Variable refrigerant flow system Industry's first air-cooled system that delivers heating capacities down to -22°F (-30°C) as standard
- » Daikin's inverter based vapor injection compressor is designed to deliver heating capacity of up to 100% of nominal at 0°F (-18°C), up to 85% of nominal at -13°F (-25°C) and up to 60% of nominal at -22°F (-30°C)
- » Year round comfort and energy savings with Variable Refrigerant Temperature technology (VRT)
- » Refrigerant-cooled efficient and stable inverter board operation, independent of ambient conditions
- » Hot gas base pan circuit allows installation without an additional drain pan heater
- » Added peace of mind with Auto Changeover ability to back up (auxiliary) heat



Applications:











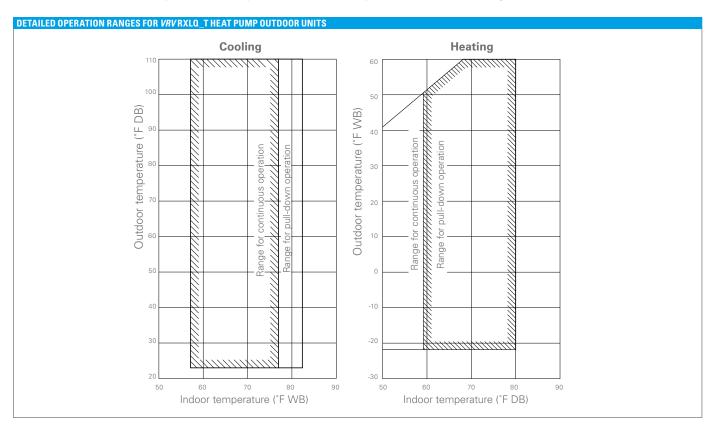


- » Long pipe lengths up to 1640 ft. total and ability to connect up to 41** indoor units with up to 100 ft. vertical separation between indoor units provides design and installation flexibility
- » Corrosion resistant, 1000 hours salt spray tested Daikin PE blue fin heat exchanger
- » Ships factory standard with coil guards
- » Outstanding 10-Year Parts Warranty* as standard.
- * Complete commercial warranty details available from your local distributor or manufacturer's representative or at www.daikincomfort.com or www.daikinac.com.
- ** Varies by model



VRV AURORA™	HEAT PUMP	CERTIFIED D	ATA - HEAT	PUMP, 208-2	230V/60HZ/3	PH, 460V/60H	IZ/3PH						
Product#	Capacity (Tons)	IEER Non-Ducted	IEER Ducted	IEER Mixed	COP @47°F Non-Ducted	COP @ 47°F Ducted	COP @ 47°F Mixed	COP @ 17°F Non-Ducted	COP @ 17°F Ducted	COP @17°F Mixed	EER Non-Ducted	EER Ducted	EER Mixed
RXLQ72T	6	24.00	20.40	22.20	4.37	3.73	4.05	2.52	2.31	2.42	15.10	13.00	14.05
RXLQ96T	8	24.70	18.90	21.80	4.29	3.49	3.89	2.51	2.26	2.39	14.90	12.30	13.60
RXLQ120T	10	23.30	19.40	21.35	4.05	3.56	3.81	2.27	2.26	2.27	13.50	12.20	12.85
RXLQ144T	12	22.40	18.20	20.30	3.86	3.56	3.71	2.21	2.21	2.21	12.70	12.40	12.55
RXLQ192T	16	22.00	18.80	20.40	3.90	3.61	3.76	2.22	2.16	2.19	12.30	12.50	12.40
RXLQ240T	20	21.00	18.60	19.80	3.77	3.53	3.65	2.22	2.13	2.18	12.10	11.50	11.80

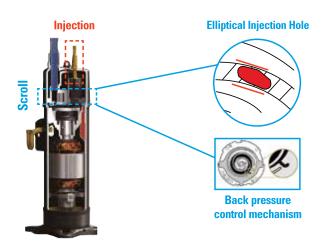
Certified efficiency data in accordance with ANSI/AHRI Standard 1230 2014, "Performance Rating of Variable Refrigerant Flow Multi-Split Air Conditioning and Heat Pump Equipment" for the VRV Series. The VRV AURORA Series has been designed and optimized to meet or exceed the latest minimum efficiency requirements in 10 C.F.R. Part 431 as determined by the U.S. Department of Energy (DOE) and baseline efficiencies as defined by ASHRAE 90.1 2016. Systems under 65MBH are currently certified to AHRI 210/240. IEER ratings are as defined in ASHRAE 90.1 2016.



Daikin VRV AURORA™

Heat Pump 208-230 & 460V (cont.)





- » Compressor technology with new spiral design and injection valves for precise refrigerant control
- » Strong and efficient motors for optimized compressor performance and part load efficiencies
- » Patented back pressure control mechanism to minimize scroll pressure losses

			6 Ton	8 Ton	10 Ton
	208-230V/3Ph/60Hz		RXLQ72TATJU	RXLQ96TATJU	RXLQ120TATJU
Model	460V/3Ph/60Hz		RXLQ72TAYDU	RXLQ96TAYDU	RXLQ120TAYDU
	Combination				
	Rated Cooling Capacity	BTU/h	69,000	92,000	114,000
	Rated Heating Capacity	BTU/h	77,000	103,000	129,000
	Operation Range Cooling	°F (°C) DB		23 to 122	
erformance	Operation Range Heating	°F (°C) WB		-22 to 60	
	Sound Pressure	dB(A)	60	61	64
	Airflow	CFM	7283	7989	8806
	Fan ESP, Standard/Max	in. Wg		0.12 / 0.32	
	Compressors, all inverter	Qty		1	
Compressor	Revolutions per minute	RPM	3738	3294	4350
	Capacity Control Range	%	11~100	13~100	12~100
	Maximum Vertical Pipe Length Above Unit	ft.		164 (295 With Field Setti	ng)
	Maximum Vertical Pipe Length Below Unit	ft.		131 (195 With Field Setti	ng)
Refrigerant Piping,	Maximum Vertical Pipe Length Between IDU	ft.		100	
ayout	Maximum Actual Pipe Length	ft.		541	
	Maximum Equivalent Pipe Length	ft.		620	
	Maximum Total Pipe Length	ft.		1,640	
Refrigerant Piping,	Liquid Pipe (Main Line)	in.	3/8	3/8	1/2
Connections	Suction Gas Pipe (Main Line)	in.	3/4	7/8	1-1/8
Connection Ratio	Standard Connectable Indoor Unit Ratio	%		70 - 200¹	
Johnection natio	Maximum Number of Indoor Units	Qty	12	16	20
	Maximum Overcurrent Protection, MOP (RXLQ_TATJU / RXLQ_TAYDU)	A	70 / 35	80 / 45	90/50
lectrical	Minimum Circuit Amps, MCA (RXLQ_TATJU / RXLQ_TAYDU)	A	60.8 / 28.1	76.5 / 39.8	83.4 / 43.4
	Compressor Rated Load Amps, RLA (RXLQ_TATJU / RXLQ_TAYDU)	А	23.9 / 10.4	42.2 / 18.3	41.4 / 18.0
	Factory Refrigerant Charge	lbs.		25.8	
Init	Weight	lbs.	727	793	793
	Dimensions (H x W x D)	in.		66-11/16 X 48-7/8 X 30-3	/16

¹ Varies based on indoor model selected

			12 Ton	16 Ton	20 Ton			
	208-230V/3Ph/60Hz		RXLQ144TATJU	RXLQ192TATJU	RXLQ240TATJU			
Model	460V/3Ph/60Hz		RXLQ144TAYDU	RXLQ192TAYDU	RXLQ240TAYDU			
	Combination		2 x RXLQ72T	2 x RXLQ96T	2 x RXLQ120T			
	Rated Cooling Capacity	BTU/h	138,000	184,000	228,000			
	Rated Heating Capacity	BTU/h	154,000	206,000	256,000			
	Operation Range Cooling	°F (°C) DB	23 to 122					
Performance	Operation Range Heating	°F (°C) WB	-22 to 60					
	Sound Pressure	dB(A)	63	64	67			
	Airflow (Cooling)	CFM	7283 + 7283	7989 + 7989	8806 + 8806			
	Fan ESP, Standard/Max	in. Wg	0.12 / 0.32					
	Compressors, all inverter	Qty		2				
Compressor	Revolutions per minute	RPM	3804 + 3804	3342 + 3342	4230 + 4230			
	Capacity Control Range	%	6~100	6~100	6~100			
	Maximum Vertical Pipe Length Above Unit	ft.	16	4 (295 With Field Setting)			
	Maximum Vertical Pipe Length Below Unit	ft.	13	1 (195 With Field Setting)			
Refrigerant Piping,	Maximum Vertical Pipe Length Between IDU	ft.		100				
Layout	Maximum Actual Pipe Length	ft.		541				
	Maximum Equivalent Pipe Length	ft.		620				
	Maximum Total Pipe Length	ft.	1,640					
Refrigerant Piping,	Liquid Pipe (Main Line)	in.	1/2	5/8	5/8			
Connections	Suction Gas Pipe (Main Line)	in.	1-1/8	1-1/8	1-3/8			
Connection Ratio	Standard Connectable Indoor Unit Ratio	%		70 - 200¹				
Connection hatto	Maximum Number of Indoor Units	Qty	25	33	41			
	Maximum Overcurrent Protection, MOP (RXLQ_TATJU / RXLQ_TAYDU)	А	70 + 70 / 35 + 35	80 + 80 / 45 + 45	90 + 90 / 50+ 50			
Electrical	Minimum Circuit Amps, MCA (RXLQ_TATJU / RXLQ_TAYDU)	А	60.8 + 60.8 / 28.1 + 28.1	76.5 + 76.5 / 39.8 + 39.8	83.4 + 83.4 / 43.4 + 43.4			
	Compressor Rated Load Amps, RLA (RXLQ_TATJU / RXLQ_TAYDU)	А	23.9 + 23.9 / 10.4 + 10.4	40.8 + 40.8 / 17.7 + 17.7	41.7 + 41.7 / 18.2 + 18.2			
	Factory Refrigerant Charge	lbs.		25.8 + 25.8				
Unit	Weight	lbs.	2 x 727	2 x 793	2 x 793			
	Dimensions (H x W x D)	in.	66-11/16 X 48-7/8	X 30-3/16 + 66-11/16 X 4	8-7/8 X 30-3/16			

VRV IV Air-Cooled Heat Recovery



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 system assembled in North America.

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 38 tons allowing for flexible system design.
- » Year-round comfort and energy efficiency delivered by combining VRV and VRT technologies.
- » Compatible with Daikin DVS series of Dedicated Outdoor Air Systems (DOAS).
- » High energy efficiency with IEER values up to 29.3.
- » 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.
- » Daikin PE blue fin heat exchanger.





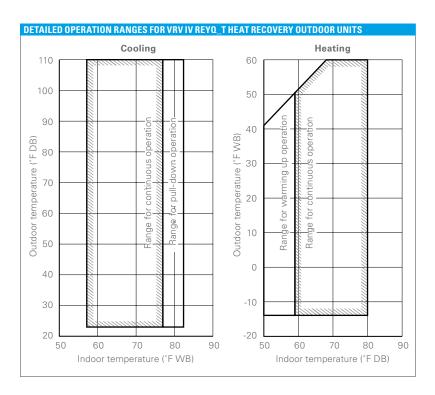
- » Single/multiple port branch selector boxes provide compact dimensions and a wide range of product offerings (single, 4, 6, 8, 10 and 12 port options).
- » Reduced commissioning time with VRV configuration software and Graphical User Interface (GUI), as compared to VRV III.
- » VRV IV takes advantage of Daikin's unique zone and centralized controls that are optimized for the specific needs of North America.
- » Outstanding 10-Year Parts Warranty* as standard.
- * Complete commercial warranty details available from your local distributor or manufacturer's representative or at www.daikincomfort.com or www.daikinac.com.

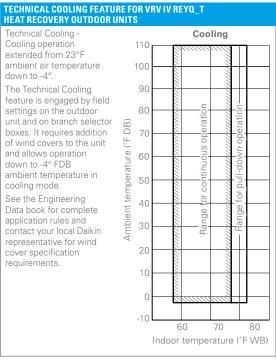




VRV IV CEF	TIFIED DA	TA - HEAT	RECOVERY	/, 208-230V	//60HZ/3PH	1 AND 460	V/60HZ/3PI	Н								
Product#	Capacity (Tons)	IEER Non-Ducted	IEER Ducted	IEER Mixed	SCHE Non-Ducted	SCHE Ducted	SCHE Mixed	COP @ 47°F Non-Ducted	COP @ 47°F Ducted	COP @ 47°F Mixed	COP @ 17°F Non-Ducted	COP @ 17°F Ducted	COP @ 17°F Mixed	EER Non-Ducted	EER Ducted	EERMixed
REYQ72T	6	24.90	20.90	22.90	25.40	21.40	23.40	4.31	3.58	3.95	2.70	2.43	2.56	15.00	12.20	13.60
REYQ96T	8	29.30	23.10	26.20	24.70	23.00	23.85	4.25	3.67	3.96	2.47	2.25	2.36	14.20	12.40	13.30
REYQ120T	10	25.40	22.60	24.00	25.90	25.10	25.50	4.00	3.51	3.76	2.45	2.25	2.35	12.90	12.10	12.50
REYQ144T	12	23.50	21.60	22.55	25.00	23.80	24.40	3.81	3.48	3.65	2.52	2.29	2.40	12.40	11.90	12.15
REYQ168T	14	21.90	20.40	21.15	26.00	24.10	25.05	3.64	3.21	3.43	2.20	2.09	2.15	11.30	10.90	11.10
REYQ192T	16	22.90	21.10	22.00	26.60	23.10	24.85	3.85	3.67	3.76	2.38	2.26	2.32	12.50	12.30	12.40
REYQ216T	18	23.00	20.80	21.90	25.60	22.80	24.20	3.74	3.66	3.70	2.32	2.18	2.25	12.50	12.20	12.35
REYQ240T	20	21.90	19.80	20.85	25.60	22.70	24.15	3.68	3.51	3.60	2.24	2.09	2.17	11.90	11.60	11.75
REYQ264T	22	21.60	18.60	20.10	24.40	22.00	23.20	3.55	3.20	3.38	2.33	2.08	2.21	11.60	10.40	11.00
REYQ288T	24	21.00	17.90	19.45	23.30	21.80	22.55	3.51	3.20	3.36	2.41	2.13	2.27	11.40	10.30	10.85
REYQ312T	26	20.20	18.00	19.10	23.90	20.70	22.30	3.57	3.20	3.39	2.35	2.10	2.23	11.00	10.00	10.50
REYQ336T	28	19.00	17.30	18.15	23.50	20.60	22.05	3.53	3.20	3.37	2.18	2.05	2.12	10.30	9.60	9.95
REYQ360T	30	19.60	18.80	19.20	22.70	20.30	21.50	3.52	3.27	3.40	2.28	2.05	2.17	10.80	10.70	10.75
REYQ384T	32	18.30	18.00	18.15	22.50	18.70	20.60	3.21	3.20	3.21	2.22	2.05	2.14	9.80	9.80	9.80
REYQ408T	34	17.20	17.70	17.45	21.80	18.30	20.05	3.21	3.20	3.21	2.09	2.05	2.07	9.80	9.70	9.75
REYQ432T	36	16.20	17.30	16.75	20.20	18.10	19.15	3.21	3.20	3.21	2.08	2.06	2.07	9.80	9.70	9.75
REYQ456T	38	16.20	16.70	16.45	18.80	17.90	18.35	3.21	3.20	3.21	2.07	2.05	2.06	9.30	9.50	9.40

Certified efficiency data in accordance with ANSI/AHRI Standard 1230 2014, "Performance Rating of Variable Refrigerant Flow Multi-Split Air Conditioning and Heat Pump Equipment" for the VRV Series. The VRV IV Series has been designed and optimized to meet or exceed the latest minimum efficiency requirements in 10 C.F.R. Part 431 as determined by the U.S. Department of Energy (DOE) and baseline efficiencies as defined by ASHRAE 90.1 2016. Systems under 65MBH are currently certified to AHRI 210/240. IEER ratings are as defined in ASHRAE 90.1 2016.





VRV IV Air-Cooled Heat Recovery (cont.)



			6 Ton	8 Ton	10 Ton	12 Ton	14 Ton	16 Ton	18 Ton	20 Ton		
A - J - I	208-230V/3Ph/60H	z	REYQ72TATJU	REYQ96TATJU	REYQ120TATJU	REYQ144TATJU	REYQ168TATJU	REYQ192TATJU	REYQ216TATJU	REYQ240TATJU		
Performance Ret Sou Airt	460V/3Ph/60Hz		REYQ72TAYDU	REYQ96TAYDU	REYQ120TAYDU	REYQ144TAYDU	REYQ168TAYDU	REYQ192TAYDU	REYQ216TAYDU	REYQ240TAYDU		
	Combination							1 x REYQ120T 1 x REYQ72T	1 x REYQ120T 1 x REYQ96T	1 x REYQ144T 1 x REYQ96T		
	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	75,000	100,000	126,000	150,000	176,000	200,000	226,000	250,000		
Andel Performance Rat Rat Sou Sou Airt Fan Con Cap Ma Len Ma Pipi Ma Pipi Ma Connection Connection Connection Connection Connection Connection Connection Connection Con Cap Ma Con Cap Cap Ma Con Cap Cap	Sound Pressure	dB(A)	58	6	31	6	:5	63	64	66		
rformance	IEER (Ducted / Non-Ducted)		20.9 / 24.9	23.1 / 29.3	22.6 / 25.4	21.6 / 23.5	20.4 / 21.9	21.1 / 22.9	20.8 / 23.0	19.8 / 21.9		
	Airflow	CFM	5,544	5,827	6,286		228	5,544 + 6,286	5,827 + 6,286	5,827 + 8,228		
	Fan ESP, Standard/Max	in. Wg				0	.12 / 0.32					
	Compressors, all inverter	Qty	1			2		3		4		
mpressor	Revolutions per minute	RPM	3600	3630, 3630	4470, 4470	4440, 4440	5190, 5190	4080, (4290, 4290)	(4170, 4170) x 2	(4050, 4050), (4110, 4110)		
	Capacity Control Range	%	15-100	11-100		10-100			5-100			
	Maximum Vertical Pipe Length Above Unit	ft.				164 (295 V	Vith Field Setting)					
	Maximum Vertical Pipe Length Below Unit	ft.				131 (195 V	Vith Field Setting)					
	Maximum Vertical Pipe Length Between IDU	ft.					100			1 x REYQ144T 1 x REYQ96T 228,000 250,000 66 19.8 / 21.9 5,827 + 8,228 4 (4050, 4050), (4110, 4110) 21-3/8 (34.9) C12201 (Brazing Connection) 41 45 + 70 / 25 + 40 38 + 55 / 21.1 + 31.9		
	Maximum Actual Pipe Length	ft.					541					
	Maximum Equivalent Pipe Length	ft.	620									
	Maximum Total Pipe Length	ft.	3,280									
	Liquid Pipe, Main Line	in.	Ø3/8 (9.5 (Brazing C	onnection)	/	7) C1220T onnection)		on)				
Piping,	Suction Gas Pipe, Main Line	in.	Ø3/4 (19.1) C1220T (Brazing Connection)	Ø7/8 (22.2) C1220T (Brazing Connection)		Ø1-1/8 (28	.6) C1220T (Brazing	Connection)		Ø1-3/8 (34.9) C1220T (Brazing Connection)		
Somections	Discharge Gas Pipe, Main Line	in.	Ø5/8 (15.9) C1220T (Brazing Connection)		1) C1220T connection)		2) C1220T onnection)	Ø1-1/8 (2	8.6) C1220T (Brazinç	g Connection)		
Connection	Standard Connectable Indoor Unit Ratio	%					50 - 200					
	Maximum Number of Indoor Units	Qty	12	16	20	25	29	33	37	41		
	Maximum Overcurrent Protection, MOP (REYQ_TAT / REYQ_TAY)	А	35/20	45/25	50/25	70	/40	35 + 50 / 20 + 25	45 + 50 / 25 + 25	45 + 70 / 25 + 40		
Electrical	Minimum Circuit Amps, MCA (REYQ_TAT / REYQ_TAY)	А	30.2 / 15.2	38 / 21.1	43 / 21.1	55 / 31.9	61.9 / 36.1	30.2 + 43 / 15.2 + 21.1	38 + 43 / 21.1 + 21.1	38 + 55 / 21.1 + 31.9		
	Compressor Rated Load Amps, RLA (REYQ_TAT / REYQ_TAY)	А	20.7 / 9.4	13.7 + 13.7 / 6.2 + 6.2	15 + 15 / 6.8 + 6.8	16.2 + 22.6 / 7.3 + 10.3	17.4 + 24.4 / 7.9 + 11.1	20.7 + (15 + 15) / 9.4 + (6.8 + 6.8)	(13.7 + 13.7) + (15 + 15) / (6.2 + 6.2) + (6.8 + 6.8)			
	Factory Refrigerant Charge	lbs.	21.9		25	5.8		21.9 + 25.8		3 + 25.8		
Init	Weight (REYQ_TAT / REYQ_TAY)	lbs.	507 / 527	703 / 717	703 / 717	780	/794	507 + 703 / 527 + 717	703 + 703 / 717 + 717	703 + 780 / 717 + 794		
Jill	Dimensions (H x W x D)	in.	66-11/16 x 48-7/8									

OPERATION RANGE FOR ALL VRV IV HEAT RECOVERY OUTDOOR UNITS										
Cooling °F DB	-4* - 122									
Heating °F WB	-13 – 60									

^{*}Application rules apply



22 Ton	24 Ton	26 Ton	28 Ton	30 Ton	32 Ton	34 Ton	36 Ton	38 Ton						
REYQ264TATJU	REYQ288TATJU	REYQ312TATJU	REYQ336TATJU	REYQ360TATJU	REYQ384TATJU	REYQ408TATJU	REYQ432TATJU	REYQ456TATJU						
REYQ264TAYDU	REYQ288TAYDU	REYQ312TAYDU	REYQ336TAYDU	REYQ360TAYDU	REYQ384TAYDU	REYQ408TAYDU	REYQ432TAYDU	REYQ456TAYDU						
1 x REYQ144T 1 x REYQ120T	2 x REYQ144T	1 x REYQ168T 1 x REYQ144T	2 x REYQ168T	3 x REYQ120T	1 x REYQ168T 1 x REYQ120T 1 x REYQ96T	1 x REYQ168T 1 x REYQ144T 1 x REYQ96T	3 x REYQ144T	1 x REYQ168T 2 x REYQ144T						
252,000	274,000	296,000	320,000	342,000	364,000	388,000	410,000	430,000						
274,000	288,000	306,000	316,000	376,000	386,000	394,000	405,000	415,000						
66		68		66	68	69	7	70						
18.6 / 21.6	17.9 / 21.0	18.0 / 20.2	17.3 / 19.0	18.8 / 19.6	18.0 / 18.3	17.7 / 17.2	17.3 / 16.2	16.7 / 16.2						
6,286 + 8,228	8,228 + 8,228	8,228 +	8,228	6,286 + 6,286 + 6,286	5,827 + 6,286 + 8,228	5,827 + 8,228 + 8,228	8,228 + 8,3	228 + 8,228						
		1		0.12/	U.32	6								
(4710, 4710), (4800, 4800)	(4740, 4740) x 2	(5790, 57	'90) x 2	(5010, 5010) x 3	(5070, 5070) x 2, (5160, 5160)	(5040, 5040), (5130, 5130) x 2	(5220, 5220) x 3	(5730, 5730) x 3						
	5-1	00		3-100										
				164 (295 With	Field Setting)									
				131 (195 With	Field Setting)									
				10	0									
541 620														
3,280														
				Ø3/4 (19.1) C1220T (E	Brazing Connection)									
Ø	1-3/8 (34.9) C1220T	(Brazing Connection)			Ø1-5/8 (41.	3) C1220T (Brazing Connectio	n)							
Ø	1-1/8 (28.6) C1220T	(Brazing Connection)		Ø1-3/8 (34.9) C1220T (Brazing Connection)										
				50 - 3	200									
45	49	54	58			64								
50 + 70 / 25 + 40		70 + 70 / 40 + 40		50 + 50 + 50 / 25 + 25 + 25	45 + 50 + 70 / 25 + 25 + 40	45 + 70 + 70 / 25 + 40 + 40	70 + 70 + 70 / 40 + 40 + 40	70 + 70 + 70 / 40 + 40 + 40						
43 + 55 / 21.1 + 31.9	55 + 55 / 31.9 + 31.9	55 + 61.9 / 31.9 + 36.1	61.9 + 61.9 / 36.1 + 36.1	43 + 43 + 43 / 21.1 + 21.1 + 21.1	38 + 43 + 61.9 / 21.1 + 21.1 + 21.1	38 + 55 + 61.9 / 21.1 + 31.9 + 36.1	55 + 55 + 55 / 31.9 + 31.9 + 31.9	55 + 55 + 61.9 / 31.9 + 31.9 + 36.1						
(15 + 15) + (16.2 + 22.6) / (6.8 + 6.8) + (7.3 + 10.3)	(16.2 + 22.6 x 2 / (7.3 + 10.3) x 2	(16.2 + 22.6) + (17.4 + 24.4) / (7.3 + 10.3) + (7.9 + 11.1)	(17.4 + 24.4)x 2 / (7.9 + 11.1) x 2	(15 + 15) x 3 / (6.8 + 6.8) x 3	(13.7 + 13.7) + (16.2 + 22.6) + (17.4 + 24.4) / (6.2 + 6.2) + (6.8 + 6.8) + (7.9 + 11.1)	(13.7 + 13.7) + (16.2 + 22.6) + (17.4 + 24.4) / (6.2 + 6.2) + (7.3 + 10.3) + (7.9 + 11.1)	(16.2 + 22.6) x 3 / (7.3 + 10.3) x 3	(16.2 + 22.6) x 2 + (17.4 + 24.4) / (7.3 + 10.3) x 2 + (7.9 + 11.1)						
	25.8 -	- 25.8												
703 + 780 / 717 + 794	-	780 + 780 / 794 + 794		703 + 703 + 703 / 717 + 717 + 717	703 + 703 + 780 / 717 + 717 + 794	780 + 780 + 780 / 717 + 794 + 794		30 + 780 / 94 + 794						
(66-11/16)	< 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) + (66-11/16 x 48-7/8 x 30-3/16) + (66-11/16 x 48-7/8 x 30-3/16)										

For additional technical information please refer to specific Engineering Data Books.



VRV IV

Air-Cooled Heat Pump



Daikin's VRV IV systems integrate advanced technology to provide comfort control helping to maximize 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 system assembled in North America.

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 27.3.
- » 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.





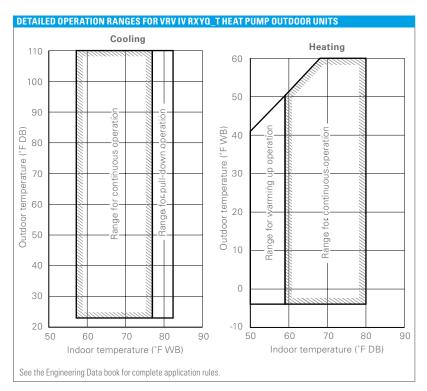
- » Reduced commissioning time with VRV configuration software and Graphical User Interface (GUI), as compared to VRV III.
- » VRV IV takes advantage of Daikin's unique zone and centralized controls that are optimized for the specific needs of North America.
- » Outstanding 10-Year Parts Warranty* as standard.
- * Complete commercial warranty details available from your local distributor or manufacturer's representative or at www.daikincomfort.com or www.daikinac.com.

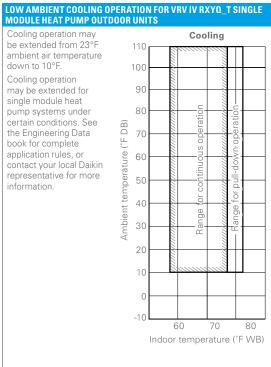




VRV IV CERTIFIED	DATA - HEAT	PUMP, 208-2	30V/60HZ/3	PH AND 460	V/60HZ/3PH								
Product#	Capacity (Tons)	IEER Non-Ducted	IEER Ducted	IEER Mixed	COP @ 47°F Non-Ducted	COP @ 47°F Ducted	COP @ 47°F Mixed	COP @ 17°F Non-Ducted	COP @ 17°F Ducted	COP @ 17°F Mixed	EER Non-Ducted	EER Ducted	EER Mixed
RXYQ72T	6	25.80	20.70	23.25	3.67	3.30	3.49	2.44	2.25	2.35	14.70	12.70	13.70
RXYQ96T	8	27.30	22.50	24.90	4.00	3.49	3.75	2.63	2.48	2.56	14.00	12.60	13.30
RXYQ120T	10	25.40	22.00	23.70	3.50	3.30	3.40	2.25	2.37	2.31	12.00	11.60	11.80
RXYQ144T	12	24.80	22.60	23.70	3.64	3.34	3.49	2.33	2.20	2.27	12.10	11.50	11.80
RXYQ168T	14	22.60	19.80	21.20	3.34	3.20	3.27	2.34	2.27	2.31	10.60	10.60	10.60
RXYQ192T	16	22.20	21.20	21.70	3.62	3.29	3.46	2.27	2.23	2.25	11.10	11.60	11.35
RXYQ216T	18	20.50	21.10	20.80	3.83	3.50	3.67	2.57	2.46	2.52	10.70	10.90	10.80
RXYQ240T	20	20.80	20.90	20.85	3.63	3.33	3.48	2.41	2.34	2.38	11.00	11.20	11.10
RXYQ264T	22	20.30	19.60	19.95	3.33	3.24	3.29	2.43	2.30	2.37	10.30	9.60	9.95
RXYQ288T	24	20.10	19.60	19.85	3.25	3.30	3.28	2.07	2.13	2.10	10.50	10.10	10.30
RXYQ312T	26	19.90	18.80	19.35	3.30	3.21	3.26	2.32	2.20	2.26	9.80	9.60	9.70
RXYQ336T	28	20.60	18.50	19.55	3.22	3.20	3.21	2.38	2.27	2.33	9.50	9.50	9.50
RXYQ360T	30	19.40	18.50	18.95	3.46	3.20	3.33	2.47	2.36	2.42	10.30	9.80	10.05
RXYQ384T	32	21.10	18.50	19.80	3.30	3.20	3.25	2.28	2.27	2.28	9.50	9.50	9.50
RXYQ408T	34	21.10	19.00	20.05	3.24	3.20	3.22	2.18	2.10	2.14	9.50	9.50	9.50

Certified efficiency data in accordance with ANSI/AHRI Standard 1230 2014, "Performance Rating of Variable Refrigerant Flow Multi-Split Air Conditioning and Heat Pump Equipment" for the VRV Series. The VRV IV Series has been designed and optimized to meet or exceed the latest minimum efficiency requirements in 10 C.F.R. Part 431 as determined by the U.S. Department of Energy (DOE) and baseline efficiencies as defined by ASHRAE 90.1 2016. Systems under 65MBH are currently certified to AHRI 210/240. IEER ratings are as defined in ASHRAE 90.1 2016.





VRV IV Air-Cooled Heat Pump (cont.)



			6 Ton	8 Ton	10 Ton	12 Ton	14 Ton	16 Ton	18 Ton	20 Ton				
	208-230V/3Ph/60F	1-				RXYQ144TATJU		RXYQ192TATJU	RXYQ216TATJU	RXYQ240TATJU				
Model	460V/3Ph/60Hz	14				RXYQ144TAYDU		RXYQ192TAYDU	RXYQ216TAYDU	RXYQ240TAYDU				
	Combination							1 x RXYQ120T 1 x RXYQ72T	1 x RXYQ120T 1 x RXYQ96T	2 x RXYQ120T				
	Rated Cooling Capacity	BTU/h	69,000	92,000	114,000	138,000	158,000	184,000	206,000	228,000				
	Rated Heating Capacity	BTU/h	73,000	103,000	129,000	154,000	174,000	206,000	230,000	256,000				
	Sound Pressure	dB(A)	58	6	31	64	65	63	64					
Performance	IEER (Ducted / Non-Ducted)		20.7 / 25.8	22.5 / 27.3	22.0 / 25.4	22.6 / 24.8	19.8 / 22.6	21.2 / 22.2	21.1 / 20.5	20.9 / 20.8				
	Airflow CFM		5,544	5,827	6286		228	5544 + 6286	5827 + 6286	6286 + 6286				
	Fan ESP, Standard/Max	in. Wg				0	.12 / 0.32							
	Compressors, all inverter	Qty		1				2						
Compressor	Revolutions per minute	RPM	7668	7650	7746	7008 + 7608	7680 + 8280	7668, 7746	7650, 7746	7746, 7746				
	Capacity Control Range	%	20-100	16-100	15-100	11-100	10-100	17-100	15-1	00				
	Maximum Vertical Pipe Length Above Unit	ft.				164 (295 \	With Field Setting)							
	Maximum Vertical Pipe Length Below Unit	ft.		130 (295 With Field Setting)										
Refrigerant Piping,	Maximum Vertical Pipe Length Between IDU	ft.	100											
Layout	Maximum Actual Pipe Length	ft.					540							
	Maximum Equivalent Pipe Length	ft.					620							
	Maximum Total Pipe Length	ft.					3,280							
Refrigerant	Liquid Pipe, Main Line	in.	(Brazing C	onnection)		7) C1220T Connection)		Ø5/8 (15.9) C1220T	(Brazing Connection)					
Piping, Connections	Suction Gas Pipe, Main Line	in.	Ø3/4 (19.1) C1220T (Brazing Connection)	Ø7/8 (22.2) C1220T (Brazing Connection)		Ø1-1/8 (:	28.6) C1220T (Brazi	ng Connection)		Ø1-3/8 (34.9) C1220T (Brazing Connection)				
Connection	Standard Connectable Indoor Unit Ratio	%					50 - 200							
Ratio	Maximum Number of Indoor Units	Qty	12	16	20	25	29	33	37	41				
	Maximum Overcurrent Protection, MOP (RXYQ_TAT / RXYQ_TAY)	А	35 / 20	45	/ 25	60 / 35	60 / 35	35 + 45 / 20 + 25	45 + 45 / 25+25	45 + 45 / 25 + 25				
Electrical	Minimum Circuit Amps, MCA (RXYQ_TAT / RXYQ_TAY)	А	27.6 / 12.3	36.3 / 20.6	36.3 / 20.6	55.1 / 25.9	55.1 / 25.9	27.6 + 36.3 / 12.3 + 20.6	36.3 + 36.3 / 20.6 + 20.6	36.3 + 36.3 / 20.6 + 20.6				
	Compressor Rated Load Amps, RLA (RXYQ_TAT / RXYQ_TAY)	А	15.7 / 7.1	23.8 / 10.2	26.2 / 11.7	16.7 + 16.7 / 7.6 + 7.6	18.8 + 18.8 / 8.5 + 8.5	15.7 + 26.2 / 7.1 + 11.7	23.8 + 26.2 / 10.2 + 11.7	26.2 + 26.2 / 11.7 + 11.7				
	Factory Refrigerant Charge	lbs.	13	22.7	22.9	18.1	17.2	13.0 + 22.9	22.7 + 22.9	22.9 + 22.9				
I late	Weight (RXYQ_TAT / RXYQ_TAY)	lbs.	435 / 451	525 / 553	528 / 556	695,	/709	435 + 528 / 451 + 556	525 + 528 / 553 + 556	528 + 528 / 556 + 556				
Unit	Dimensions (H x W x D)	in. 66-11/16 × 36- 11/16 × 30-3/16 66-11/16 × 48-7/8 × 30-3/16 66-11/16 × 48-7/8 × 30-3/16 66-11/16 × 48-7/8 × 30-3/16 (66-11/16 × 48-7/8 × 30-3/16) x 2												

OPERATION RANGE FOR ALL VRV IV H	OPERATION RANGE FOR ALL VRV IV HEAT PUMP OUTDOOR UNITS										
Cooling °F DB	10* - 122										
Heating °F WB	-4-60										

^{*}Application rules apply



22 Ton	24 Ton	26 Ton	28 Ton	30 Ton	32 Ton	34 Ton							
RXYQ264TATJU	RXYQ288TATJU	RXYQ312TATJU	RXYQ336TATJU	RXYQ360TATJU	RXYQ384TATJU	RXYQ408TATJU							
RXYQ264TAYDU	RXYQ288TAYDU	RXYQ312TAYDU	RXYQ336TAYDU	RXYQ360TAYDU	RXYQ384TAYDU	RXYQ408TAYDU							
1 x RXYQ144T 1 x RXYQ120T	2 x RXYQ144T	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							
252,000	274,000	296,000	312,000	342,000	356,000	372,000							
282,000	308,000	334,000	342,000	372,000	396,000	435,000							
66	67	68		66	6	68							
19.6 / 20.3	19.6 / 20.1	18.8 / 19.9	18.5 / 20.6	18.5 / 19.4	18.5 / 21.1	19.0 / 21.1							
6286 + 8228		8228 + 8228		6286 + 6286 + 6286 5827 + 6286 + 8228 6286 + 6286 -									
			0.12 / 0	.32									
3		4		3	4	5							
7746, (7008, 7608)	(7008, 7608), (7008, 7608)	(7008, 7608), (7680, 8280)	(7680, 8280), (7680, 8280)	7746, 7746, 7746	7650, 7746, (7680, 8280)	7650, (7008, 7608), (7680, 8280)							
13-100	11-100	10-10	00	15-100	13-100	12-100							
164 (295 With Field Setting)													
131 (295 With Field Setting)													
100													
541													
620													
			3,280)									
			Ø3/4 (19.1) C1220T (Br	azing Connection)									
	Ø1-3/8 (34.9) C1220	T (Brazing Connection)		Ø1-:	5/8 (41.3) C1220T (Brazing Connect	ion)							
			50 - 20	00									
45	49	54	58	62	6	4							
45 + 60 / 25 + 35		60 + 60 / 35 + 35		45 + 45 + 45 / 25 + 25 + 25	45 + 45 + 60 / 25 + 25 + 35	45+60+60/25+35+35							
36.3 + 55.1 / 20.6 + 25.9		55.1 + 55.1 / 25.9 + 25.9		36.3 + 36.3 + 36.3 / 20.6 + 20.6 + 20.6	36.3 + 36.3 + 55.1 / 20.6 + 20.6 + 25.9	36.3 + 55.1 + 55.1 / 20.6 + 25.9 + 25.9							
26.2 + (16.7 + 16.7) / 11.7 + (7.6 + 7.6)	(16.7 + 16.7) x 2 / (7.6 + 7.6) x 2	(16.7 + 16.7) + (18.8 + 18.8) / (7.6 + 7.6) + (8.5 + 8.5)	(18.8 + 18.8) x 2 / (8.5 + 8.5) x 2	26.2 + 26.2 + 26.2 / 11.7 + 11.7 + 11.7	23.8 + 26.2 + (18.8 + 18.8) / 10.2 + 11.7 + (8.5 + 8.5)	23.8 + (16.7 + 16.37) + (18.8 + 18.8) / 10.2 + (7.6 + 7.6) + (8.5 + 8.5)							
22.9 + 18.1	18.1 + 18.1	18.1 + 17.2	17.2 + 17.2	22.9 + 22.9 + 22.9	22.7 + 22.9 + 17.2	22.7 + 18.1 + 17.2							
528 + 695 / 556 + 709		695 + 695 / 709 + 709		528 + 528 + 528 / 525 + 528 + 695 / 525 + 695 + 695 / 525 + 528 + 695 553 + 556 + 709 553 + 709 + 709									
	(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									

For additional technical information please refer to specific Engineering Data Books.



VRV T-Series Water-Cooled Heat Pump / Heat Recovery 208-230V / 460V



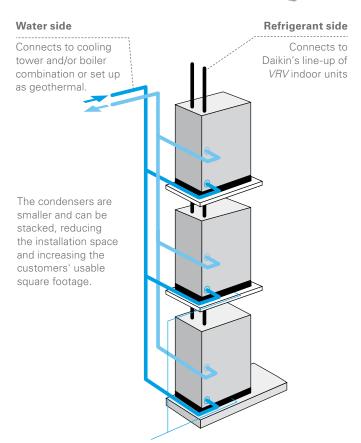
VRV T-Series Water-Cooled systems are equivalent to 4-pipe chilled water systems, but also offer a viable alternative to Water Source Heat Pump solutions. Each connected indoor unit can provide heating and cooling independently to suit zone requirements making these systems suitable for both open plan, or cellar applications with different operation requirements.

Features and Benefits

- » Flexible System design with increased diversity up to 150%¹ compared to previous VRV water-cooled generation
- » Triple-stack capable to deliver up to 36 tons in 11.5 ft ceiling height
- » Flexible and easy installation with field selectable top or front refrigerant connections
- » Design flexibility with long piping lengths up to 980 ft. total (540 ft. max. linear liquid piping length) and up to 100 ft. vertical separation between indoor units
- » Engineered with heat rejection cancellation technology² to minimize mechanical room conditioning requirements
- » Year round comfort and energy efficiency by combining VRV and VRT technologies
- » Wide water temperature operation range 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.
- » 2-9V variable water flow control logic² as standard to increase waterside system operational efficiencies
- » Refrigerant cooled inverter technology to deliver consistent and reliable PCB operations
- » Easy commissioning with ability to program settings off site using new configurator tool
- » 3-digit 7-segment digital display on the unit for improved and faster configuration, commissioning, and troubleshooting
- » Engineered for easy service with drop-down switch box to access key components
 - ¹ Model specific, check product specification for details
 - ² Refer to installation manual for field settings and other requirements to activate this feature







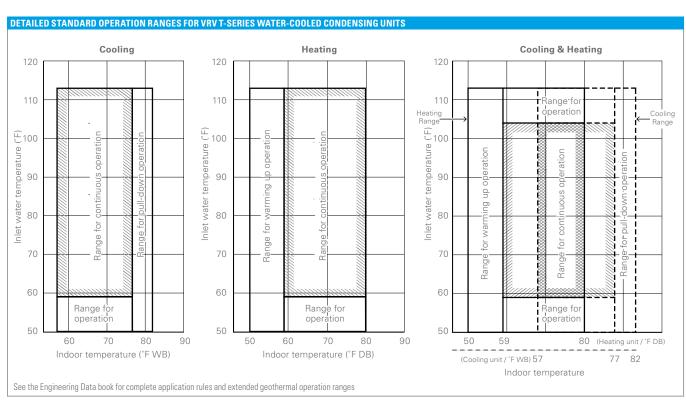
VRV Water-Cooled System Series design is based on a modular design concept. It is composed of unified condensing units that require simply connecting a two-pipe refrigerant network for heat pump applications or a three-pipe refrigerant network for heat recovery applications. Water-cooled condensers are available in 6*, 8, 10 and 12 tons.

This is a simple system that allows manifolding together up to three condensers to form one system of up to 36 tons. The condensers are designed for internal mounting only.

* 6-ton model (RWEYQ72PC) is PC series. T and PC series models cannot be combined to form multi-module systems.

VRV T-SE	RIES WATER-COO	LED CERTIF	IED DATA, 2	208-230V/60	HZ/3PH AN	ND 460V/60I	HZ/3PH							
Function	System Name	Tonnage	IEER Non-Ducted	IEER Ducted	IEER Mixed	SCHE Non-Ducted (Heat Recovery only)	SCHE Ducted (Heat Recovery only)	SCHE Mixed (Heat Recovery only)	EER Non-Ducted	EER Ducted	EER Mixed	COP @ 68°F Non-Ducted	COP @ 68°F Ducted	COP @68°F Mixed
	RWEY072PC	6 Tons	24.1	22.3	23.2	N/A	N/A	N/A	14.0	14.0	14.0	4.89	4.78	4.84
	RWEQ96T	8 Tons	30.8	25.4	28.1	N/A	N/A	N/A	19.6	15.4	17.5	6.27	5.8	6.035
	RWEQ120T	10 Tons	29.4	23.5	26.45	N/A	N/A	N/A	16	13.6	14.8	6.1	5.55	5.83
	RWEQ144T	12 Tons	24.3	19.8	22.05	N/A	N/A	N/A	15.4	12.6	14.0	6.01	5.33	5.67
	RWEQ192T	16 Tons	26.8	24.7	25.75	N/A	N/A	N/A	16.5	14.6	15.55	5.82	5.82	5.82
0	RWEQ216T	18 Tons	26.3	23.8	25.05	N/A	N/A	N/A	15.0	13.8	14.4	5.68	5.62	5.65
Heat Pump	RWEQ240T	20 Tons	25.7	22.7	24.2	N/A	N/A	N/A	14.0	12.8	13.4	5.52	5.38	5.45
at P	RWEQ264T	22 Tons	23.5	2.00	21.75	N/A	N/A	N/A	13.5	12.1	12.8	5.34	4.96	5.15
£	RWEQ288T	24 Tons	20.9	18.8	19.85	N/A	N/A	N/A	12.6	11.3	11.95	5.3	4.81	5.06
	RWEQ312T	26 Tons	21.9	21.8	21.85	N/A	N/A	N/A	13.7	12.7	13.2	5.5	4.86	5.18
	RWEQ336T	28 Tons	21.5	21.4	21.45	N/A	N/A	N/A	13.5	12.3	12.9	5.42	4.73	5.08
	RWEQ360T	30 Tons	21.2	20.2	20.7	N/A	N/A	N/A	12.4	11.7	12.05	5.3	4.7	5.0
	RWEQ384T	32 Tons	19.5	17.9	18.7	N/A	N/A	N/A	12	11	11.5	4.53	4.12	4.33
	RWEQ408T	34 Tons	18.2	17.2	17.7	N/A	N/A	N/A	11.1	10.7	10.9	4.35	4.03	4.19
	RWEQ432T	36 Tons	17.0	16.6	16.8	N/A	N/A	N/A	10.5	10.3	10.4	4.19	3.92	4.06
	RWEYQ72PC	6 Tons	24.1	22.3	23.2	17.8	19.2	18.5	14.0	14.0	14.0	4.89	4.78	4.84
	RWEQ96T	8 Tons	30.8	25.4	28.1	25.7	21.3	23.5	19.6	15.4	17.5	6.27	5.8	6.035
	RWEQ120T	10 Tons	29.4	23.5	26.45	26.3	22.5	24.4	16	13.6	14.8	6.1	5.55	5.83
	RWEQ144T	12 Tons	24.3	19.8	22.05	26.5	22.7	24.6	15.4	12.6	14	6.01	5.33	5.67
	RWEQ192T	16 Tons	26.8	24.7	25.75	26.0	22.9	24.45	16.5	14.6	15.55	5.82	5.82	5.82
<u></u>	RWEQ216T	18 Tons	26.3	23.8	25.05	25.5	22.1	23.8	15.0	13.8	14.4	5.68	5.62	5.65
3000	RWEQ240T	20 Tons	25.7	22.7	24.2	25.4	21.9	23.65	14.0	12.8	13.4	5.52	5.38	5.45
Bec	RWEQ264T	22 Tons	23.5	2.00	21.75	25.2	19.2	22.2	13.5	12.1	12.8	5.34	4.96	5.15
Heat Recovery	RWEQ288T	24 Tons	20.9	18.8	19.85	23.5	20.0	21.75	12.6	11.3	11.95	5.3	4.81	5.06
工	RWEQ312T	26 Tons	21.9	21.8	21.85	24.5	20.7	22.6	13.7	12.7	13.2	5.5	4.86	5.18
	RWEQ336T	28 Tons	21.5	21.4	21.45	23.5	20.0	21.75	13.5	12.3	12.9	5.42	4.73	5.08
	RWEQ360T	30 Tons	21.2	20.2	20.7	23.2	19.1	21.15	12.4	11.7	12.05	5.3	4.7	5.0
	RWEQ384T	32 Tons	19.5	17.9	18.7	22.0	19.1	20.55	12.0	11.0	11.5	4.53	4.12	4.33
	RWEQ408T	34 Tons	18.2	17.2	17.7	21.2	18.5	19.85	11.1	10.7	10.9	4.35	4.03	4.19
	RWEQ432T	36 Tons	17.0	16.6	16.8	20.5	17.7	19.1	10.5	10.3	10.4	4.19	3.92	4.055

Certified efficiency data in accordance with ANSI/AHRI Standard 1230 2014, "Performance Rating of Variable Refrigerant Flow Multi-Split Air Conditioning and Heat Pump Equipment" for the VRVT-Series Water-Cooled. The VRV T-Series Water-Cooled has been designed and optimized to meet or exceed the latest minimum efficiency requirements in 10 C.F.R. Part 431 as determined by the U.S. Department of Energy (DOE) and baseline efficiencies as defined by ASHRAE 90.1 2016. Systems under 65MBH are currently certified to AHRI 210/240. IEER ratings are as defined in ASHRAE 90.1 2016.



VRV T-Series Water-Cooled Heat Pump or Heat Recovery 208-230V



A modular, energy-efficient and reliable alternative to centralized equipment

Features and Benefits

- » Flexible System design with increased diversity up to 150%¹ compared to previous VRV water-cooled generation
- » Small condensers can be triple stacked for reduced installation space and increased usable square footage
- » Larger (than previous models) single-system capacity and modular concept ensures wider application range for accommodating floor-by-floor loads of commercial buildings
- » Year round comfort and energy efficiency by combining VRV and VRT technologies

- » 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
- » 2-9V variable water flow control logic² as standard to increase waterside system operational efficiencies
- » Refrigerant cooled inverter technology to deliver consistent and reliable PCB operations
- » Engineered for easy service with drop-down switch box to access key components
- ¹ Model specific, check product specification for details
- ² Refer to installation manual for field settings and other requirements to activate this feature

			6 T	on	8 To	on	10	Ton	12	Ton	16	Гon	18	Ton	20	Ton		
	Name				RWEQ96		RWEQ12			44TATJU								
Model	Combination										2 x RWEQ96TATJU		RWEQ96TATJU RWEQ120TATJU					
	Rated Cooling Capacity ² BTU/h		69,0	000	92,0	100	114	.000	138.000		184	000	206,000		228,000			
	Rated Heating Capacity ³	BTU/h	77,0		103,0		129		-	,000	206,000		232,000		258,000			
Performance	Power	V/ph/Hz									30/3/60				RWEQ240TATJU 2 x RWEQ120TATJU 228,000 258,000 58 HP HR 5/8 5/8 1-3/8 1-1/8 N/A 1-3/8 41 2 x 1-1/4 2 x 1-1/4 2 x 3/8 2 x 423 2-1/16 45 + 45 36.5 + 36.5 20.9 + 20.9			
	Sound Pressure Level @ 3 ft.	dB(A)	5	0	54	1	5	5	61	0.5	5	7	57	7.5	5	240TATJU 2120TATJU 3,000 3,000 58 HR 5/8 1-1/8 1-3/8 1-1/4 1		
	System Configuration: Heat Pump: HP, Heat Recovery: HR		HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR		
	Liquid Pipe (Main Line)	in.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8		
	Suction Gas Pipe (Main Line)	in.	3/4	5/8	7/8	3/4	1-1/8	3/4	1-1/8	7/8	1-1/8	1-1/8	1-1/8	1-1/8				
Refrigerant Piping	Discharge Gas Pipe (Main Line)	in.	N/A	3/4	N/A	7/8	N/A	1-1/8	N/A	1-1/8	N/A	1-1/8	N/A	1-1/8				
	Vertical Pipe Length (if unit is below FCU)	ft.	164 (164 (130)													
	Actual Pipe Length (Equivalent Length)	ft.	. 390 (459) 540 (623)															
	Total Pipe Length	ft.	98	30	980													
0 0	Standard Connectable Indoor Unit Ratio	50 - 130			50 - 150 ⁴													
Connection Ratio	Maximum Number of Indoor Units	Qty. 12		16		20		25		33		37		TJU RWEQ240TATJU JJU 2×RWEQ120TATJU 228,000 258,000 58 HP HR 3 5/8 5/8 8 1-3/8 1-1/8 8 N/A 1-3/8 41 2×1-1/4 2×3/8 2×423 2×423 x22-1/16 45+45 36.5+36.5 20.9+20.9				
	BPHE Inlet Pipe (Female Thread)	in.	1-1	/4	1-1	/4	1-1	1/4	1-	1/4	2 x 1	-1/4	2 x 1	1-1/4				
	BPHE Outlet Pipe (Female Thread)	in.	1-1	/4	1-1	/4	1-1	1/4	1-	1/4	2 x 1	-1/4	2 x 1	1-1/4	2 x	1-1/4		
	Drain Pipe (Female Thread)	in.	1/	'2	3/	8	3,	/8	3	/8	2 x	3/8	2 x		2 x	40TATJU 1120TATJU 1,000 1,000 188		
	Maximum System Water Pressure (BPHE)	psi	285 464															
Water Side (Standard)	Standard Inlet Water Temperature Range Cooling	°F							50) - 113								
	Standard Inlet Water Temperature Range Heating	°F	50 - 113															
	Recommended Inlet Water Flow Rate per Module (minimum) ⁵	gpm							13.2	2 ~ 39.6					2 x RWEQ120TATJU 228,000 258,000 58 HP HR 5/8 5/8 1-3/8 1-1/8 N/A 1-3/8 A1 2 x 1-1/4 2 x 1-1/4 2 x 1-1/4 2 x 3/8 22-1/16 45 + 45 36.5 + 36.5 20.9 + 20.9			
Water Side	Inlet Water Temperature Range Cooling ⁶	°F	27 -	113						23	- 113							
(Geothermal)	Inlet Water Temperature Range Heating ⁶	°F	14 - 95															
	Water Flow Rate ⁵	gpm	21.2 -							21.2	- 39.6							
	Weight	lbs.	33	30	41	9	42	23	4	23	2 x	419	419 -	+ 423	2 x	423		
Unit	Dimensions (H x W x D)	in.	39-3/8 x 21-1			38	8-9/16 x 30-1/8 x 22-1/16				38-9/16 x (30-1/8 x 2) x 22-1/16							
	Voltage Range (min - max)	V								187	- 253							
Electrical	Maximum Overcurrent Protection (MOP)	А	3	0	35			5		50	35 -	- 35	35 -	+ 45	45	+ 45		
Electrical	Minimum Circuit Amps (MCA)	А	22	.4	28.	.8	36	3.5	4	4.6	28.8 -	- 28.8	28.8	+ 36.5	36.5	228,000 258,000 58 HP HR 5/8 5/8 -3/8 1-1/8 N/A 1-3/8 41 2 x 1-1/4 2 x 1-1/4 2 x 3/8 2 x 423 16 45 + 45 36.5 + 36.5 20.9 + 20.9		
	Compressor Rated Load Amps (RLA)	А	11	.6	19	9	20).9	25	9.4	19 -	- 19	19+	20.9	20.9	+ 20.9		
	Compressor Type		Daikin G-T	ype Scroll						Daikin K-	Type Scroll					### A 1		
Compressor	Compressor Set-Up						1	NV					1 INV -	+1 INV				
	Compressor Capacity Control	%	23 -	100	16 -	100	14 -	100	11 -	- 100	8 -	100	8 -	100	7 -	100		

¹Some features and benefits may not be available for this model. Please contact your local Daikin sales representative for more details. ²Indoor temp.: 80°FDB, 67°FWB/inlet water temp.: 85°F/ Equivalent piping length : 25 ft., level difference : 0 ft.

³Indoor temp.: 70°FDB, 60°FWB/inlet water temp.: 70°F / Equivalent piping length: 25 ft., level difference : 0 ft.



RWEQ_TATJU/TAYDU

22 T	22 Ton		24 Ton		26 Ton		Ton .	301	Гon	32 Ton		34 Ton		36	Ton	
RWEQ26	RWEQ264TATJU RWEQ288TA		B8TATJU	JU RWEQ312TATJU		RWEQ33	6TATJU	RWEQ360TATJU		RWEQ384TATJU		RWEQ408TATJU		RWEQ432TATJ		
	RWEQ120TATJU RWEQ144TATJU		144TATJU	2 x RWEQ96TATJU RWEQ120TATJU		RWEQ96TATJU 2 x RWEQ120TATJU		3 x RWEQ120TATJU		2 x RWEQ120TATJU RWEQ144TATJU		RWEQ120TATJU 2 x RWEQ144TATJU		3 x RWEQ144TAT		
252,0	252,000 274,0		,000	298,000		320,000		342,000		366,000		388,000		410,000		
284,0	000	308	,000	334,	000	360,000		386,	000	410,0	000	435,	,000	460	,000,	
61.	Г	63	١. ٦	5.	٦	59		30/3/60	0	62)	6	4		35	
01.	5	0.3	5.5	53	3	59	.5	60		02		0	4	0	.5	
HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
1-3/8 N/A	1-1/8 1-3/8	1-3/8 N/A	1-1/8	1-3/8 N/A	1-1/8 1-3/8	1-3/8 N/A	1-1/8	1-5/8 N/A	1-3/8 1-5/8	1-5/8 N/A	1-3/8	1-5/8 N/A	1-3/8 1-5/8	1-5/8 N/A	1-3/8	
IV/A	1-3/0	I IV/A	1-3/0	IV/A	1-3/0	IN/A	-, -	, ,	1-3/0	IN/A	1-3/0	IN/A	1-3/0	IN/A	1-5/	
								(130)								
	540 (623) 980															
50 - 150 ⁴																
45	45		49		54		58		62		64		64		64	
	2 x 1-1/4		2 x 1-1/4 3 x 1-1/4		3 x 1-1/4		3 x 1-1/4		3 x 1		3 x 1		3 x 1-1/4			
	2 x 1-1/4 2 x 1-1/4		3 x 1-1/4		3 x 1-1/4		3 x 1-1/4		3 x 1		3 x 1			1-1/4		
2 x 3	2 x 3/8 2 x 3/8 3 x 3/8											3/8				
							4	64								
							50	- 113								
	50 - 113 13.2 ~ 39.6															
							23	- 113								
							14	- 95								
	21.2 - 39.6															
2 x 4	23	2 x	423	2 x 419	+ 423	419 + 2	2 x 423	3 x 4	423	3 x 4	23	3 x 4	423	3 x 423		
38-9,	/16 x (30-	1/8 x 2) x 22	2) x 22-1/16 38-9/16 x (30-1/8 x 3) x 22-1/16													
							187	- 253								
45+	50	50 -	F 50	35 + 35	5 + 45	35 + 45	5 + 45	45 + 4	5 + 45	45 + 45	5 + 50	45 + 5	0 + 50	50 + 5	0 + 50	
36.5+		44.6 -		28.8 + 28		28.8 + 36		36.5 + 36		36.5 + 36		36.5 + 44		44.6 + 44		
20.9+	29.4	29.4 -	+ 29.4	19 + 19	+ 20.9	19 + 20.9		20.9 + 20	.9 + 20.9	20.9 + 20	9 + 29.4	20.9 + 29	1.4 + 29.4	29.4 + 29	3.4 + 29.	
	1 1811/	. 1 INIV					Daıkin K-	Type Scroll	1 [N]\/ , 1 []	NIV. 1 INIV						
6 - 1		+ 1 INV	100	5 - 1	00	5 - 1	100	5 - 1	1 INV + 1 II	NV + 1 INV 4 - 1	nn	4 - 1	100	4	100	
0 - 1	UU	J - 0 -	IUU	J - I	UU	J - I	100	J - I	100	4 -	UU	4 -	100	4 -	100	

⁴Varies based on indoor and condensing unit model selected; refer to Engineering Manual for details.

⁶ Application rules apply below 50°F. Please contact your local Daikin sales representative for design assistance and approval.



⁵Please note that a water strainer (standard accessory for the T-series, field supplied for the PC-series) is required for each condensing unit model.

VRV T-Series Water-Cooled Heat Pump or Heat Recovery 460V



A modular, energy-efficient and reliable alternative to centralized equipment

Features and Benefits

- » Flexible System design with increased diversity up to 150%¹ compared to previous VRV water-cooled generation
- » Small condensers can be triple stacked for reduced installation space and increased usable square footage
- » Larger (than previous models) single-system capacity and modular concept ensures wider application range for accommodating floor-by-floor loads of commercial buildings
- » Year round comfort and energy efficiency by combining VRV and VRT technologies

- » 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
- » 2-9V variable water flow control logic² as standard to increase waterside system operational efficiencies
- » Refrigerant cooled inverter technology to deliver consistent and reliable PCB operations
- » Engineered for easy service with drop-down switch box to access key components
- ¹ Model specific, check product specification for details
- ² Refer to installation manual for field settings and other requirements to activate this feature

ANA I-OFHIFO M	ATER-COOLED UNIFIED HEAT PU	MP AND	_														
			6 T	on	8 T	on	10 7	Ton	12 7	on	16	Ton	18	Ton	2	0 Ton	
	Name		RWEQ72PCYD		RWEQ9	6TAYDU	RWEQ12	OTAYDU	RWEQ14	4TAYDU	RWEQ19	2TAYDU	RWEQ2	16TAYDU	RWEQ	240TAYDU	
Model	Combination										2 x RWEQ	96TAYDU		96TAYDU 20TAYDU	2 x RWE	Q120TAYDU	
D (Rated Cooling Capacity ²	BTU/h	69,000		92,	000	114,000		138,000		184,000		206,000		228,000		
	Rated Heating Capacity ³	BTU/h	77,000		103,000		129,000		154,000		206,	,000	232	2,000	258,000		
Performance -	Power	V/ph/Hz								46	0/3/60					3,000 3,000 58 HR 5/8 1-1/8 1-3/8 1-1/4 1-1/4 1-1/4 3/8	
	Sound Pressure Level @ 3 ft.	dB(A)	50		5	4	5	55		60.5		7	5	7.5	58		
	System Configuration: Heat Pump: HP, Heat Recovery: HR		HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	
Ī	Liquid Pipe (Main Line)	in.	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	
	Suction Gas Pipe (Main Line)	in.	3/4	5/8	7/8	3/4	1-1/8	3/4	1-1/8	7/8	1-1/8	1-1/8	1-1/8	1-1/8	1-3/8	1-1/8	
Refrigerant Piping	Discharge Gas Pipe (Main Line)	in.	N/A	3/4	N/A	7/8	N/A	1-1/8	N/A	1-1/8	N/A	1-1/8	N/A	1-1/8	N/A	1-3/8	
3.7	Vertical Pipe Length (if unit is below FCU)		164 (164 (130)													
Ī	Actual Pipe Length (Equivalent Length) ft.		390 (459) 540 (623)														
	Total Pipe Length ft.		980 980														
Connection	Standard Connectable Indoor Unit Ratio		50 -	130		50 - 150 ⁴											
Ratio	Maximum Number of Indoor Units	Qty.	12		16		20		25		33		37		41		
	BPHE Inlet Pipe (Female Thread)	in.	1-1/4		1-1/4		1-1/4		1-1/4		2 x 1-1/4		2 x 1-1/4		2 x 1-1/4		
	BPHE Outlet Pipe (Female Thread)	in.	1-1/4		1-1/4		1-1/4		1-1/4		2 x 1-1/4		2 x 1-1/4		2 x 1-1/4		
Ī	Drain Pipe (Female Thread)	in.	1/2		3/8		3/		3/8		2 x			(3/8		x 3/8	
	Maximum System Water Pressure (BPHE)	psi	285 536.6														
Water Side (Standard)	Standard Inlet Water Temperature Range Cooling	°F	50 - 113														
	Standard Inlet Water Temperature Range Heating	°F	50 - 113														
	Recommended Inlet Water Flow Rate per Module (minimum) ⁵	gpm			13.2 ~ 39.6												
Water Side	Inlet Water Temperature Range Cooling ⁶	°F	27 - 113 23 - 113														
(Geothermal)	Inlet Water Temperature Range Heating ⁶	°F	14 - 113														
	Water Flow Rate ⁵	gpm	21.2 -								.2 - 39.6						
	Weight	lbs.	34	13	42	26	43	30	43	10	2 x	426	426	+ 430	2	x 430	
Unit	Dimensions (H x W x D)	in.		39-3/8 x 30-3/4 x 21-11/16 38-9/16 x 30-1/8 x 22-1/16 38-9/16 x (30-1/8 x 2) x 22-1/16							-1/16						
	Voltage Range (min - max)	V								41	4 - 506						
Flootrical	Maximum Overcurrent Protection (MOP)	А	1	5	1	5	2	0	2	5	15 -	+ 15	15	+ 20	21	0+20	
Electrical	Minimum Circuit Amps (MCA)		10	.2	1	3	16	.5	20	.2	13 -	+ 13	13 +	16.5	16.	5 + 16.5	
	Compressor Rated Load Amps (RLA)				8.6		9.	4	13	.3	8.6 + 8.6		8.6 + 9.4		9.4 + 9.4		
	Compressor Type		Daikin G-T	ype Scroll	Daikin K-Type Scroll												
Compressor	Compressor Set-Up			,		1 INV 1 INV 1 INV											
Compressor	Compressor Capacity Control	%	23 -	100	16 -	100	14 -		11 -	100	8 -	100		100	7	- 100	

'Some features and benefits may not be available for this model. Please contact your local Daikin sales representative for more details. ²Indoor temp.: 80°FDB, 67°FWB/inlet water temp.: 85°F/ Equivalent piping length : 25 ft., level difference : 0 ft.

³Indoor temp.: 70°FDB, 60°FWB/inlet water temp.: 70°F / Equivalent piping length: 25 ft., level difference : 0 ft.



RWEQ_TATJU/TAYDU

	22 To	22 Ton 24 Ton		26 Ton 28 Ton			Ton	30	Ton	32	Ton	34	Ton	36	Ton	
	RWEQ264	WEQ264TAYDU RWEQ288TAYDU		RWEQ312TAYDU		RWEQ33	6TAYDU	RWEQ360TAYDU		RWEQ384TAYDU		RWEQ408TAYDU		RWEQ432TAYDI		
	RWEQ120TAYDU RWEQ144TAYDU 2xRWEQ144TAYDU		2 x RWEQ96TAYDU RWEQ120TAYDU		RWEQ96TAYDU 2 x RWEQ120TAYDU		3 x RWEQ120TAYDU		2 x RWEQ120TAYDU RWEQ144TAYDU		RWEQ120TAYDU 2 x RWEQ144TAYDU		3 x RWEQ144TAYE			
	252,000 274,000		298,000		320,000		342	,000	366,000		388	3,000	410,000			
	284,000 308,000			334,	000	360,	000	386	386,000		,000	435,000		460,000		
									0/3/60							
	61.5)	63	3.5	5	9	59.5		60		62		64			65
	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR	HP	HR
	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-3/8	1-1/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8	1-5/8	1-3/8
	N/A	1-3/8	N/A	1-3/8	N/A	1-3/8	N/A	1-3/8	N/A	1-5/8	N/A	1-5/8	N/A	1-5/8	N/A	1-5/8
								16	64 (130)							
	540 (623) 980 50 - 150 ⁺															
	45		1 4	0		4	58		J - 15U⁴ 62		64		64		64	
	45	45 49 2 x 1-1/4 2 x 1-1/4			54 3 x 1-1/4		3 x 1-1/4			3 x 1-1/4			3 x 1-1/4			1-1/4
	2 x 1-1				3 x 1-1/4		3 x 1-1/4		3 x 1-1/4		3 x 1-1/4 3 x 1-1/4			1-1/4		1-1/4
	2 x 3/	<u> </u>	2 x 3/8		3 x 3/8		3 x 3/8			3/8		3/8		(3/8		(3/8
	536.6															
	50 - 113															
	50 - 113															
	13.2~39.6															
	23 - 113															
								1	4 - 95							
								21.	2 - 39.6						-	
	2 x 43	30	2 x	430	2 x 426	+430	426 + 3	2 x 430	3 x	430	3 x	430	3 x	430	3 x 430	
	38-9/	16 x (30-1	/8 x 2) x 22	-1/16					38	3-9/16 x (30	-1/8 x 3) x 2	2-1/16				
								41	4 - 506							
	20 + 2	25	25 -	+ 25	15 + 1	5 + 20	15 + 2	0 + 20	20 + 2	20 + 20	20 + 2	0 + 25	20 + 2	25 + 25	25+	25 + 25
	16.5 + 2		20.2	+ 20.2	13 + 13			5 + 16.5	16.5 + 16	6.5 + 16.5		6.5 + 20.2		0.2 + 20.2		0.2 + 20.2
	9.4 + 1	3.3	13.3	⊦ 13.3	8.6 + 8.	6+9.4	8.6 + 9			.4 + 9.4	9.4 + 9.	4 + 13.3	9.4 + 13	3.3 + 13.3	13.3 + 1	3.3 + 13.3
								Daikin I	K-Type Scro							
			+ 1 INV		_						INV + 1 IN	V 100				
	6 - 10)()	5 -	100	5 - 1	5 - 100 5 - 100 5 - 100							4 -	100	4 - 100	

condensing unit model.

4 Varies based on indoor and condensing unit model selected; refer to Engineering Manual for details.

5 Please note that a water strainer (standard accessory for the selected; refer to Engineering Manual for details.

5 Please note that a water strainer (standard accessory for the T-series, field supplied for the PC-series) is required for each Daikin sales representative for design assistance and approval.



VRV IV S-Series

Heat Pump 208-230V

Light Commercial

The VRV IV S-series system is a highly efficient solution for small commercial buildings requiring heating and cooling of up to 9 zones. A mix of ducted and duct-free indoor units can be combined to provide individual comfort and ease of installation.

Whether you are working with space constraints or want to maximize the amount of commercial space available, the VRV IV S-series system gives you the flexibility you need. With its simple, versatile design and long piping (up to 230 ft. actual piping length one way), the VRV IV S-series can accommodate practically any floor layout, enabling better use of space.

Its advanced zoning capabilities allow floor-by-floor installation so that each floor can be occupied quickly upon completion. And, because the outdoor units are lightweight and vibration-free, there's no need to reinforce floors, reducing both installation time and costs.

Daikin VRV's wide range of stylish and discreet indoor units provide configurations for every retail space, giving you the benefit of our highly efficient technology, whatever the design of your store. Wall mounted units matched to your interior meet both aesthetic and energy needs while also supporting the look and feel of your brand and preserving floor space. Slim ducted and concealed units blend almost unseen into your store, while floor standing units with small footprints preserve floor space, fitting unobtrusively into recesses or under windows.

Features and Benefits

- » Single-phase technology is perfect for light commercial and residential applications in 36,000, 48,000 and 60,000 Btu/h models.
- » Space-saving design to fit in tight areas and realize quick and easy installation.
- » Savings in energy use due to higher SEER and HSPF ratings when compared to VRV III-S.
- » Soft sound level operation ensures a comfortable fit in any room.
- » Single-supplier reliability. The system factory engineered and 80% complete upon delivery — is fully optimized by Daikin, plus has self-diagnostics and one of the best warranties in the industry*.
- » Simplified equipment selection with a flexible array of indoor unit options.
- * Complete warranty details available from your local Daikin manufacturer's representative or distributor or online at www.daikincomfort.com.





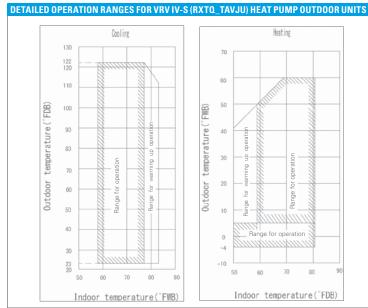


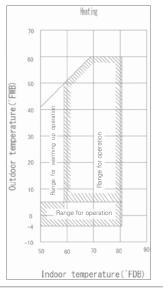




CERTIFIED PERF	CERTIFIED PERFORMANCE DATA											
Model Number	Indoor Units Combination	Nominal Cooling Capacity (BTU/h)	EER 95F	SEER	Nominal Heating Capacity (BTU/h)	Heating COP @ 47 °F	Low Heating Capacity (BTU/h)	Heating COP @ 17 °F	HSPF			
	Non-Ducted Indoor Units	36,000	12.0	18.0	40,000	4.10	23,600	3.0	10.3			
RXTQ36TAVJ9	Ducted Indoor Units	36,000	10.0	16.0	40,000	3.30	22,000	2.5	9.0			
	Mixed Ducted and Non-Ducted Indoor Units	36,000	11.0	17.0	40,000	3.70	22,800	2.8	9.7			
	Non-Ducted Indoor Units	48,000	10.3	18.0	52,000	4.00	32,200	3.0	10.0			
RXTQ48TAVJU	Ducted Indoor Units	48,000	9.4	16.0	52,000	3.35	32,000	2.7	9.0			
	Mixed Ducted and Non-Ducted Indoor Units	48,000	9.85	17.0	52,000	3.68	32,100	2.9	9.5			
	Non-Ducted Indoor Units	57,500	9.8	18.0	57,500	4.30	37,000	3.2	10.5			
RXTQ60TAVJU	Ducted Indoor Units	57,500	9.2	16.0	57,500	3.70	34,000	2.7	10.5			
	Mixed Ducted and Non-Ducted Indoor Units	57,500	9.5	17.0	57,500	4.00	35,500	3.0	10.5			

VRV IV-S SERIES								
	Model Name		RXTQ36TAVJ9	RXTQ48TAVJU	RXTQ60TAVJU			
	ODU Style	Fan Type	Single Fan	Single Fan	Double Fan			
	Nominal Cooling Capacity	BTU/h	36,000	48,000	57,500			
D. (Nominal Heating Capacity	BTU/h	40,000	52,000	57,500			
	Operation Range Cooling	°F DB	23 to 122					
Performance	Operation Range Heating	°F WB	-4 to 60					
	Power	V/p/Hz		208-230/1/60				
	Sound Pressure Level @ 3ft	dB(A)	58 57					
	Refrigerant			R-410A				
	Refrigerant Quantity	lbs.	6.4	7.5	7.9			
	Liquid Pipe (Main Line)	in.		3/8				
Defriesent Dining	Suction Gas Pipe (Main Line)	in.		5/8	3/4			
Refrigerant Piping	Vertical Pipe Length	ft.		98				
	Maximum vertical pipe length between IDU	ft.	33		49			
	Actual Pipe Length (Equivalent Length)	ft.	164		230			
	Total Piping Length	ft.	820		984			
Connection Ratio	Connectable Indoor Unit Ratio	%		50-130				
Connection natio	Number of Indoor Units	Qty	6	8	9			
Unit	Outdoor Unit Size	(HxWxD)	39 x 37 x 12-5/8	39 x 37 x 12-5/8	52-15/16 x 35-7/16 x 12-5/8			
UIIIL	Weight	lbs.	172	176	225			
Fan	Airflow	CFM		2682	3741			
rdII	Fan Motor Output and Quantity	kW	0.	.20 x 1	0.070 X 2			
	Maximum Over Current Protection (MOP)	A	25		35			
Electrical	Minimum Circuit Amps (MCA)	A	17		29			
	Rated Load Amps (RLA	A	15.3	19.0	23.2			
Compressor	Compressor Type	Туре		Daikin Swing				
Compressor	Capacity Control	%		14-100				



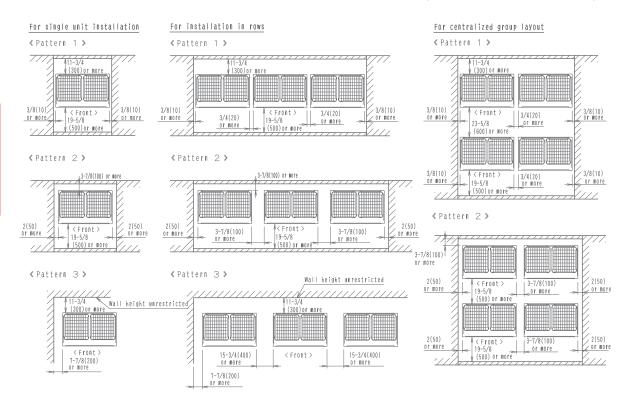


VRV IV X, VRV IV, VRVT-Series **Water-Cooled & VRV IV S-Series** Installation Space

URU IV X / URU IV / URU AURORA™

Installation Space Examples

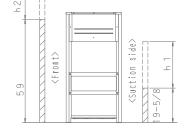
- » The installation space requirement shown in the figure is a reference for cooling.
- » During installation, install the units using the most appropriate of the patterns shown in the figure for the location in question, taking into consideration human traffic and wind.
- » If the number of units installed is more than that shown in the pattern in the figure, install the units so that there is no air short circuiting.
- » Consider the space needed for the refrigerant piping when installing the units, as determined by local codes.
- » If the space requirements in the figure do not apply, contact your contractor or Daikin directly.



Notes

- 1. Heights of walls in case of Patterns 1 and 2: Front: 59in
 - Suction side: 19-5/8in

 - Side: Height unrestricted.
 - Installation space shown in this drawing is based on the cooling operation at 95°F outdoor air temperature. When the design outdoor temperature exceeds 95°F or the load exceeds maximum ability because of much generation load of heat in all outdoor unit, take the suction-side space more broadly than the space shown in this drawing.
- 2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the figure.
- 3. When installing, the units most appropriate pattern should be selected in order to obtain the best fit in the space available, always bearing in mind the need to leave enough space for a person to pass



- between the units and wall and for the air to circulate freely.
- 4. The units should be installed to leave sufficient space at the front for the field refrigerant piping work to be carried out comfortably.

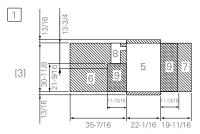


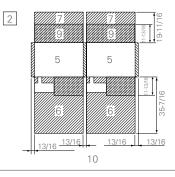
- 1. In case of a single installation [inch.]
- 2. In case of multiple unit installation [inch.]
- 3. Top view
- 4. Side view
- 5. Condensing unit
- 6. Service Space (front side)
- 7. Service Space (back side)
- 8. Space for installing water piping must be ample enough to remove the front panel.

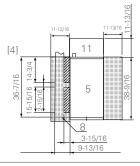
- 9. Ventilation space (refer to Engineering Data Book for further details)
- 10. Secure spaces in the front, back, and top sides as same as the case of single installation.

[1]

11. Service space above the unit for refrigerant piping (refer to Engineering Data Book for further details)



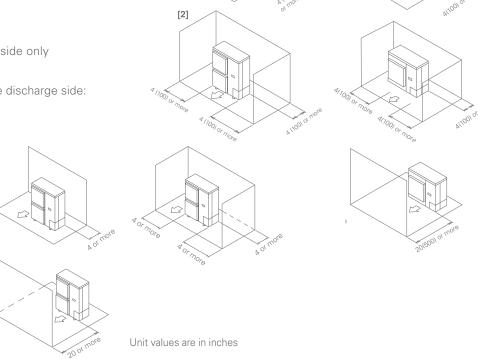




IRV IV S-series

In case of series installation, some space between the units is needed for wiring with conduit and servicing.

- 1. Where there is an obstacle on the suction side:
 - (a) No obstacle above
 - (1) Stand alone installation
 - Obstacle on the suction side only
 - Obstacle on both sides
- 2. Where there is an obstacle on the discharge side:
 - (a) No obstacle above
 - (1) Stand alone installation



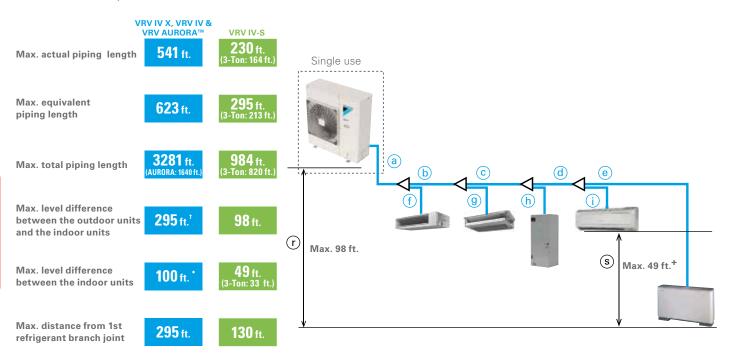


VRV IV X, VRV IV & VRV AURORA™, VRV T-Series Water-Cooled & VRV IV-S Piping Length

The long piping length provides more design flexibility, which can match even large-sized buildings.

Air-cooled system piping length

For connection of only VRV indoor units



Piping for VRV IV X, VRV IV, VRV AURORA, and VRV IV-S

		ACTUAL PIPING LE	NGTH		EXAMPLE	EQUIVALENT PIPING LENGTH			
		VRV IV X / VRV IV / VRV AURORA	VRV IV-S			VRV IV X / VRV IV / VRV AURORA	VRV IV-S		
			3-Ton	4-5 Ton			3-Ton	4-5 Ton	
	Refrigerant piping length	541 ft.	164 ft.	230 ft.	a+b+c+d+e	623 ft	213 ft	295 ft	
Maximum allawahla	Total piping length	3281 ft. AURORA: 1640 ft.	820 ft.	984 ft.	a+b+c+d+e+f+g+h+i	-	_	_	
Maximum allowable piping length	Between the first indoor unit branch and the farthest indoor unit	295 ft.*	98 ft.	98 ft.	b+c+d+e	-	-	_	

			LEVEL DIFFERENCE			EXAMPLE
		VRV IV X / VRV IV / VRV AURORA VRV IV-S				
				3-Ton	4-5 Ton	
	Between the outdoor units (multiple	16 ft.	n/a	n/a	_	
Maximum allowable	Between the indoor units		98 ft.	33	49	S
level difference	Between the outdoor units and	If the outdoor unit is above	295 ft.†	98	98	r
	the indoor units	If the outdoor unit is below	295 ft.	98	98	r

No special requirements up to 131 ft. The maximum actual piping length can be 295 ft., depending on conditions. Various conditions and requirements have to be met to allow utilization of 295 ft. piping length. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.

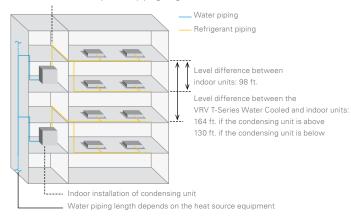
[†] When level differences are 164 ft. or more, the diameter of the main liquid piping size must be increased and connection ratio must be 80% to 130%. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

Water-cooled system piping length

Water-Cooled systems provide considerable design flexibility with total piping lengths of up to 980 ft. and vertical separation of up to 164 ft.* between condensing units and indoor units.

For connection of only VRV indoor units

Actual piping length between the VRV T-Series and indoor units: 540ft. (equivalent piping length: 623ft.)



REFRIGERANT PIPING LIMITATIONS	LIMITATIONS
Linear piping between condensing unit and furthest located fan coil unit (equivalent), ft.	540 (623)
Total "one-way" piping in the complete piping network, ft.	980
Vertical (height) separation between the condensing unit and the fan coil units (if condensing unit is below)*, ft.	164 (130)
Vertical (height) separation between fan coil units, ft.	98
Linear piping between 1st REFNET and furthest located fan coil unit, ft.	130 (295)**

^{*} Conditions apply when the condenser is lower than indoor units. Refer to your local Daikin representative for further information.



 $[\]hbox{** Conditions/rules apply. Refer to Installation manual for further details.}$

VRV Accessories

Branch Selector Boxes

Branch Selector Boxes for Heat Recovery Systems

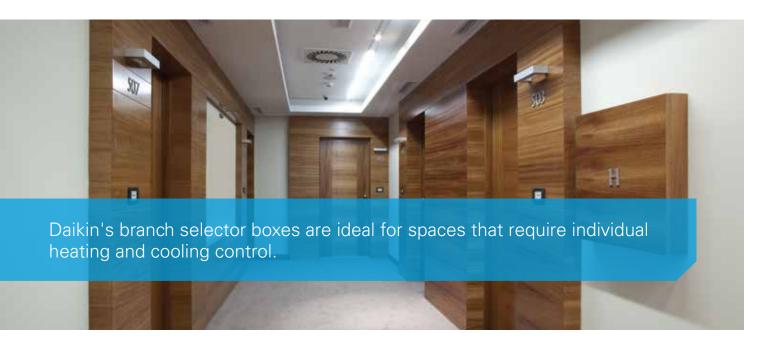
Providing flexibility and minimizing mechanical and electrical installation costs, Daikin's branch selector boxes are ideal for spaces that require individual heating and cooling control.

- Extended range of product offerings with 1, 4, 6, 8, 10 and 12 port options
- » No drain or condensate consideration required
- » Unlimited number of unused ports per box or system
- » Reduced electrical and mechanical installation costs
- » Ultimate flexibility Choose multi-port or single-port styles to customize your design
- » Up to 72% reduction in footprint, as compared to previous generation models
- » Up to 17% lower sound levels compared to current VRV III models
- » Up to 65% reduction in weight, as compared to previous generation models

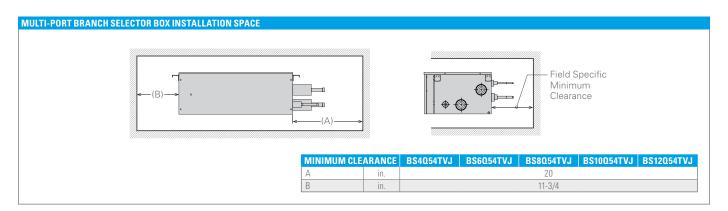
Branch Selector Boxes Compatibility

Single-Port and Multi-Port Branch Selector Boxes BS-TVJ Series are compatible with VRV IV X, VRV IV and VRV T-Series Water-Cooled.

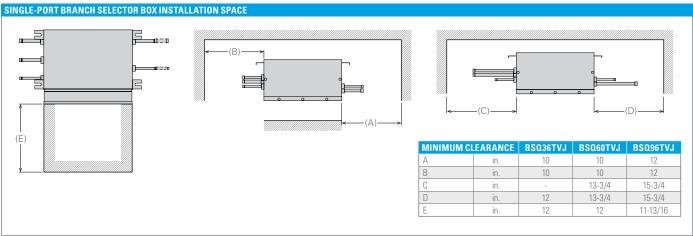




TECHNICA	L DA	TA FOR MULTI-PORT BRANCH SE	LECTOR BO	XES						
Model	Model						BS12Q54TVJ			
Number of b	Number of branches			4	6 8 10 12					
Maximum c	apaci	ty index per branch				54				
Maximum total capacity index			144	216		290				
Maximum c	onnec	table indoor units per branch				5				
	IU	Liquid	in.	Ø1/4, Ø3/8						
		Gas	in.		Ø1/2, Ø5/8					
Connecting Pipes		Liquid	in.	Ø3/8	Ø1	/2	Ø5/8			
Tipes	IU	Suction Gas	in.	Ø7/8	Ø7/8 Ø1-1/8					
		HP/LP Gas	in.	Ø3/4 Ø1-1/8						
	Pow	ver Supply	ph/V/Hz	1/208-230/60						
Electrical	Max	ximum Overcurrent Protection, MOP	А			15				
	Min	imum Circuit Amps, MCA	А		0.6 0.8 1					
Mass (Weig	jht)		lbs.	49	68 73 101 106					
Dimensions	(H x V	V x D)	in.	11-3/4 x 14-9/16 x 18-15/16	11-3/4 x 22-13	/16 x 18-15/16	11-3/4 x 32-5/1	6 x 18-15/16		



Model				BSQ36TVJ	BSQ60TVJ	BSQ96TVJ		
Number of bra	ranches 1 1 1				1			
Maximum cap	n capacity index 36 60				96			
Maximum cor	um connectable indoor units 4 8				8			
	IU	Liquid	in.	Ø3/8				
Connecting Pipes	10	Gas	in.	Ø	5/8	Ø7/8		
		Liquid	in.					
i ipes	IU	Suction Gas	in.	Ø5/8		Ø7/8		
		HP/LP Gas	in.	Ø1/2		Ø3/4		
		Power Supply	ph/V/Hz		1/208-230/60			
Electrical	M	aximum Overcurrent Protection, MOP	А		15			
		Minimum Circuit Amps, MCA	А	0.1				
Mass (Weight	t)		lbs.	27	27	33		
Dimensions (H	l x W x	D)	in.		8-1/8 x 15-1/4 x 12-13/16	·		



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

VRV Accessories

REFNET Pipe Joints

REFNET

REFNET joints distribute correct flow of refrigerant in every branch of the piping network.





VRV IV Heat Pump / VRV AURORA™ Heat Pump

RΕ	ΗN	ĿΙ	J	Oi	n.	t
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REFNET	Header
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OPTIONAL ACCESSORIES		RXYQ72T RXYQ96T RXLQ72T RXLQ96T	RXYQ120T RXYQ144T RXYQ168T RXLQ120	RXYQ192T RXYQ216T RXYQ240T RXYQ264T RXYQ288T	RXYQ336T RXLQ144T RXLQ192T	RXYQ384T RXYQ408T
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) KHRP26M73H (max. 8 branch)		133H (max. 8 branch) 172H (max. 8 branch)
	REFNET Joint	KHRP26A22T, KHRP26A33T	KHRP26A22T, KHRP26A33T, KHRP26M72TU	KHRP26A22	T, KHRP26A3	3T, KHRP26M72TU, KHRP26M73TU
Outdoor unit multi connection piping kit			_	BHFP22F	P100U	BHFP22P151U

VRV IV X Heat Recovery / VRV IV Heat Recovery / VRV AURORA™ Heat Recovery

ODTIONAL AL		REYQ72T REYQ96T	RELO72T	REYQ120T REYQ144T REYQ168T	DEL CASOT	REY0192T REY0216T REY0240T REY0264T REY0288T REY0312T REY0336T	RELO144T RELO192T	REYQ360T REYQ384T REYQ408T REYQ432T REYQ456T	
OPTIONAL ACCESSORIES		REYQ72X REYQ96X	RELQ96T	REYQ120X REYQ144X REYQ168X	RELO120T	REY0192X REY0216X REY0240X REY0264X REY0288X REY0312X REY0336X	RELQ240T	REYQ360X REYQ384X REYQ408X REYQ432X REYQ456X	
Distributed	REFNET header	KHRP25M33H9	(max. 8 branch)		(max. 8 branch) (max. 8 branch)	KH	RP25M33H9 (max. 8 branch) RP25M72H9 (max. 8 branch) RP25M73H9 (max. 8 branch)		
piping	REFNET joint	KHRP25A22T9 KHRP25A33T9		KHRP25A22T9 KHRP25A33T9 KHRP25M72TU9		KHRP25A22T9 KHRP25A33T9 KHRP25M72TU9 KHRP25M73TU9			
Outdoor unit mu	ılti connection piping kit		_	_		BHFP26	SP100U	BHFP26P151U	

VRV Accessories REFNET Pipe Joints & Hail Guard Kit for VRV IV

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

			VR	V T-SERIES WATER	-COOLED		VRV-IV-S
UNIT MOD NUMBER	DEL	RWEQ96TATJU RWEQ96TAYDU	RWEQ120TATJU RWEQ120TAYDU	RWEQ144TATJU RWEQ144TAYDU	RWEQ192,216,240, 264,288TATJU RWEQ312,336,360TATJU RWEQ192,216,240, 264,288TAYDU RWEQ312,336,360TAYDU		RXTQ36TAVJ9 RXTQ48TAVJU RXTQ60TAVJU
REFNET	Heat Pump	KHRP26M22HR (Max 4 branch) KHRP26M33H9 (Max 8 branch)	KHRP26M22H9 (N KHRP26M33H9 (N KHRP26M72H9 (N	Max 8 branch)	KHRP26M22H9 (Max 4 branch), KHRP26M72H9 (Max 8 branch),	KHRP26M22H9 (Max. 4 branch) KHRP26M33H9 (Max. 8 branch	
Header	Heat Recovery	KHRP26M33H9 (Max 8 branch)	KHRP25M33H9 (Max 8 branch) KHRP25M72H9 (Max 8 branch)		KHRP25M33H9 (Max 8 branch), KHRP25M73HU		
REFNET	Heat Pump	KHRP26A22T9, KHRP26A33T9	KHRP26A22T9, KHRP26A3	3T9, KHRP26M72TU9	KHRP26A22T9, KHRP26A33T9, K	HRP26A72UT9, KHRP26M73TU9	KHRP26A22T9
Joint	Heat Recovery	KHRP25A22T9, KHRP25A33T9	KHRP25A22T9, KHRP25A3	3T9, KHRP25M72TU9	KHRP25A22T9, KHRP25A33T9, KHRP25A72TU9, KHRP25M73TU9		
Outdoor Unit Multi	Heat Pump				BHFP22T84U BHFP22T126U		
Piping Connection Kit	Heat Recovery				BHFP26T84U	BHFP26T126U	

Hail Guard Kit for VRV IV and VRV AURORA™

The optional hail guard kit for VRV IV and VRV AURORA 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).

KIT PART NUMBER	QUANTITY OF KITS PER ODU MODELS						PANEL DIMENSI	ONS (H X W X D)	
	R_YQ72T	R_YQ96-168T	R_YQ192T	R_YQ216-336T	R_YQ360-456T				
		R_L072-120T		R_LQ144-240T		Right Panel	Left Panel	Front Panel	Front Panel
		R_YQ72-168X		R_YQ192-336X	R_YQ360-456X				
VRV4HGS-K1	1		1			457/" 200" 24"	4E7/ " v 107/ " v 4"	45 ⁷ / ₈ " x 13 ¹ / ₄ " x 4"	45 ⁷ / ₈ " x 32 ⁵ / ₈ " x 4"
VRV4HGI-K1		1	1	2	3	45 ⁷ / ₈ " x 26" x 4"	45 ⁷ / ₈ " x 12 ⁷ / ₈ " x 4"	45 ⁷ / ₉ " x 24" x 4"	457/a" x 443/4" x 4"

Service space requirements for the front, back and sides of the condensing unit must be at least 4" greater than the service space requirements provided in the condensing unit installation manual and engineering guide.

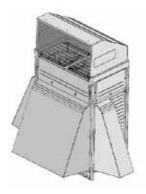
If the condensing units in multiple unit installations are installed between 0.75" and 3" maximum between units, the side hail guard panels between modules may not be required. For further separation between the modules, full kits for each module may be required.

Snow/Wind Hood Kits

The optional Snow/Wind Hood Kits mount to VRV IV, IV X, and VRV AURORA series units 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.

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		







Air Handling Kit (AHU) Integration Kit

Designed for High Efficiency

The Daikin Air Handling Unit Integration Kit enables a non-VRV Air Handling Unit to be fully integrated into a Daikin VRV system, allowing the benefits of inverter technology to extend to custom terminal units and air handling equipment.

Designed for high system efficiency, the Air Handling Unit Integration Kit offers a seamless integration and optimized design flexibility for Air Handling Units while keeping total installation and commissioning time to a minimum.

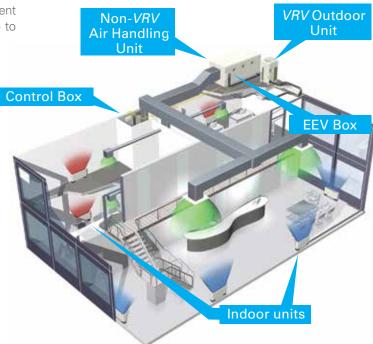
A kit consists of one Control Box and one EEV Box. Two different control methods can be used for an evaporator coil of up to 16 tons.

Features and Benefits

- » Enables non-VRV Air Handling Units to be seamlessly integrated into a Daikin VRV system
- » Integrates to VRV Heat Pump and Heat Recovery systems*
- » Daikin DIII-NET communication compatible can be used with both Daikin iTM and NAV controller
- » Separate Control Box and EEV Box accommodates flexible installation
- » Available with two control methods:
 - EKEQMCBAV3-US (Z-Control)
 - Standard VRV indoor unit room temperature control
 - EKEQFCBAV3-US (W-Control)
 - Field supplied temperature sensor
 - Field supplied DDC controller with 0-10V capability)







Important! For any VRV systems that utilize the AHU integration kits to perform as intended, the DX coil(s) in the non-VRVAHU unit(s) must meet the range of criteria set forth in the AHU Integration Kit Selection Guide and all associated piping and combination rules (refer to IOD-7041A and IOD-7042A), and should be installed in accordance to the installation manual provided with the EKEQ control boxes.

ELECTRONIC EXPANSION VALVE BOX SPECIFICATION	s	EKEXV50-US	EKEXV63-US	EKEXV80-US	EKEXV100-US	EKEXV125-US	EKEXV140-US	EKEXV200-US	EKEXV250-US	EKEXV400-US	EKEXV500-US
Nominal Capacity	BTU/h	18,000	24,000	30,000	36,000	48,000	60,000	72,000	96,000	144,000	192,000
AHU Heat Exchanger Cooling Capacity Range	BTU/h	17,000-21,000	21,500-26,500	27,000-34,500	34,000-42,000	42,500-52,500	53,000-60,000	60,500-84,000	84,500-105,000	120,000-169,000	170,000-210,000
AHU Heat Exchanger Heating Capacity Range	BTU/h	19,000-24,000	24,200-30,000	30,500-38,000	38,500-47,000	47,500-59,000	59,500-67,500	68,000-94,500	95,000-118,500	136,000-187,500	188,000-236,500
AHU Heat Exchanger Refrigerant Volume Range	in³	46-100	101-126	127-161	162-201	202-251	252-281	282-402	403-503	564-804	806-1006
Power Supply	V/ph/Hz					208-23	0/1/60				
Weight	lbs.					6	.4				
Height	in.					15-	3/4				
Width	in.		8-1/2								
Depth	in.					3-1	/16				
Pipe Connections	in.	1/2 x 1/4			3/8 x 5/8			3/4 x 3/8	7/8 x 3/8	1-1/8 x 1/2	1-1/8 x 5/8

^{*} Important! For any VRV systems that utilize the AHU integration kits to perform as intended, the DX coil(s) in the non-VRV AHU unit(s) must meet the range of criteria set forth in the AHU Integration Kit Selection Guide and all associated piping and combination rules (refer to IOD-7041A and IOD-7042A), and should be installed in accordance to the installation manual provided with the EKEQ control boxes.



Features and Benefits

- » Designed for both indoor and outdoor installation
- » Equipped with refrigerant filters on both sides of the expansion valve
- » Can be mounted up to 16 ft (5m) away from the air handling unit
- » Simplified installation with inlet and outlet brazed connections
- » Wide range that covers from 1.5 ton to 16 ton
- » Same EEVs as used in standard VRV Indoor product to deliver precise refrigerant control

Control Box EKE CBAV3-US

EKEQMCBAV3 - US

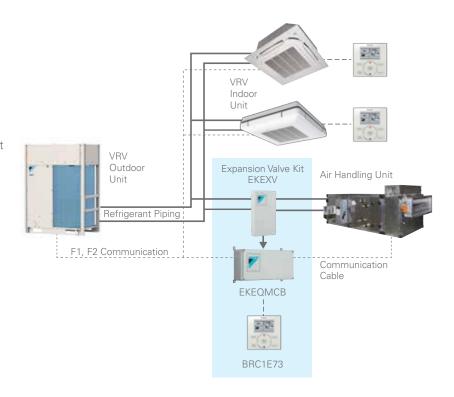
For use with both Daikin VRV indoor units and custom air handling units

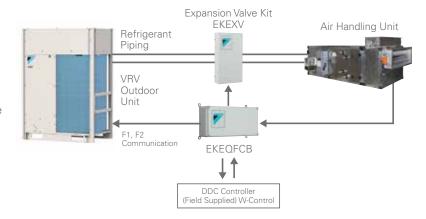
- » Allows for discharge air control
- » Seamless integration of non-VRV air handling units with VRV IV HP and HR systems
- » Enables control of the AHU as a VRV Indoor unit when integrated with a Daikin remote control
- » Connect other VRV indoor units along with the AHU to the condensing units
- » Provides remote ON/OFF option when integrated with optional KRP4A71 board
- » Designed for both indoor and outdoor installations

EKEQFCBAV3 - US

For use with custom air handling units only

- » Seamlessly integrate non-VRV air handling units with VRV IV HP
- » Best suited for applications where 1 AHU is connected to 1 VRV system only
- » Connect up to 3 integration kits per VRV system to serve a large capacity AHU
- » Unified cooling and heating mode programming
- » Enables control of AHU unit using field temperature sensor and 0-10V field supplied DDC controller
- » Allows for discharge air temperature control





Control Box EKE_CBAV3-US (cont.)

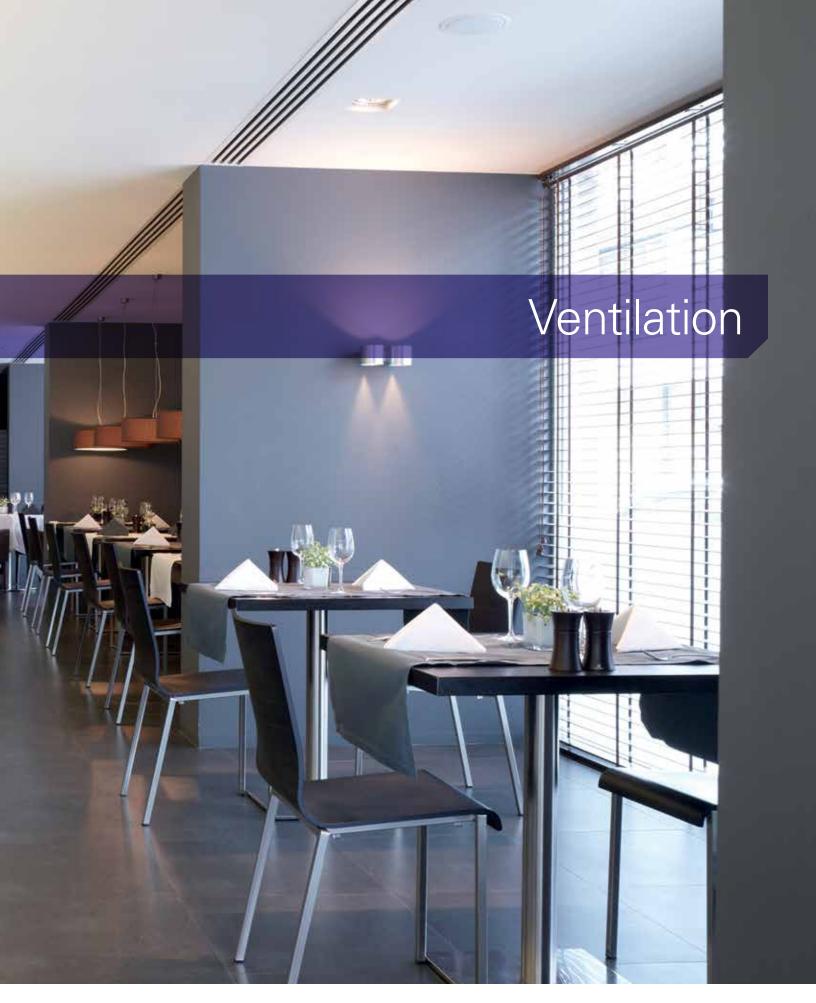


CONTROL BOX SPECIFICA	TIONS	EKEQMCBAV3-US (Z-Control)	EKEQFCBAV3-US (W-Control)	
Entering Air Temperature	Cooling °F	57 WB - 77 WB	95 DB/77 WB	
Limits	Heating °F	50 DB - 80 DB	Min. of 50 DB	
Power Supply	V/ph/Hz	208-230/1/60		
Weight	lbs.	8	8.6	
Height	in.	5-13/	64	
Width	in.	15-3/4		
Depth	in.	9-3/8		
Connection Ratio		50 - 110%	90 - 110%	
	EKEXV to AHU	16 ft.	16ft.	
Max Piping Distance	ODU to AHU	Standard VRV outdoor unit piping limitations based on model selection apply	164 ft	
	Max numbe	r of IDU/system		
VRV IDU + AHU		64	Not available	
AHU Only		32	1	

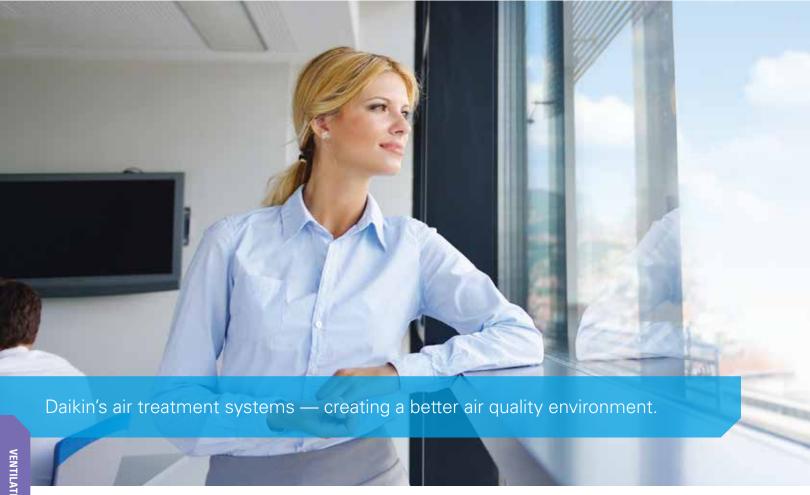
COMPATIBILITY MATRIX	EKEQMCBAV3-US (Z-Control)	EKEQFCBAV3-US (W-Control)
VRV IV HP (RXYQ_TATJU/TAYDU)	•	•
VRV IV HR (REYQ_TATJU/TAYDU)		Not available
VRV T-Series Water-Cooled (RWEQ_TATJU/TAYDU)	•	
VRV III PC (REYQ_PCTJ/PCYD)		Not available
VRV IV S (RXTQ_TAVJU(9)	Not available	Not available

[☐] Heat pump configuration only





Air Treatment Systems



Daikin's Outside Air Processing Unit can be integrated with a VRV system to provide outside air treatment and air conditioning in a single system to meet code requirements. It adjusts the temperature of air from outdoors using a fixed discharge temperature control reducing air conditioning load.

In addition to Outside Air Processing Units, we also offer Energy Heat Recovery units. The Energy Heat Recovery VAM-GVJU series units combines compactness, energy conservation, and extensive operation range of outdoor temperatures. This series provides higher enthalpy efficiency, due to the greatly enhanced performance of the thin heat exchanging element. Furthermore, improved external static pressure offers more flexibility for installation.



		OUTSIDE AIR PROCESSING UNIT, FXMQ_MFVJU	ENERGY RECOVERY VENTILATOR, VAM-GVJU
			00
VRV Refrigerant Piping		Connectable	Not connectable
VRV Control Wiring		Conne	ectable
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	208-23	30/1/60
Airflow Rate	CFM	635 988 1236	300/300/170 470/470/390 600/600/500 1200/1200/930

FXMQ_MFVJU 100% Outside Air Processing Unit



Concealed, Powerful, Compact, Quiet, Fresh Air Quality

This unit provides a zoned, decentralized approach to conditioning outside air. This helps to reduce ductwork and installation time while increasing efficiency and flexibility. Both outside air treatment and space conditioning can be provided from one compact, flexible and efficient *VRV* system. *VRV* indoor units and outdoor air processing unit can be connected to the same refrigerant line, enabling enhanced design flexibility.

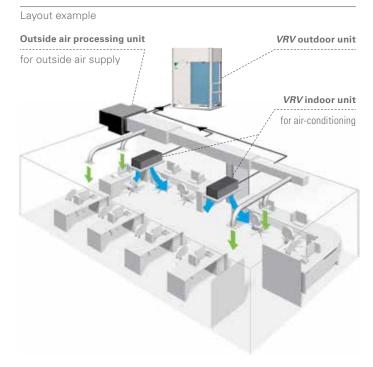
Features and Benefits

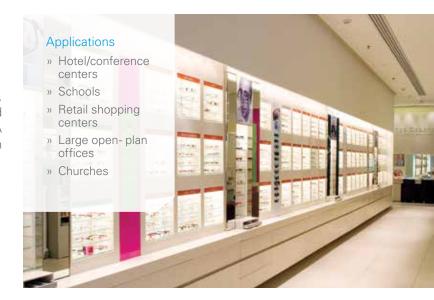
- » Available in three capacities, nominal 48, 72 and 96 MBH
- » The nominal airflow rates are 635, 988, and 1,236 CFM respectively
- » External static pressure capabilities of up to 1.03" W.G. allows for flexibility with duct work and filtration choices
- » The indoor unit is controlled to a set cooling and heating discharge air temperature allowing the flexibility to integrate with a standard Daikin indoor unit or duct directly to the space
- » A low profile design of only 18.5" high reduces the required installation space and can eliminate mechanical rooms or additional structural supports associated with traditional OA systems
- » Indoor Air Quality options include MERV 8 and 13 filters and filter boxes
- » Can be connected to all North American Daikin VRV systems
- » Connects directly and seamlessly into the Daikin local and centralized controllers

Operational Characteristics

When the suction air temperature is between 66°F and 109°F, the Outside Air Processing Unit operates in cooling, and when between 23°F and 59°F, it operates in heating. The OA processing unit will work in energy saving fan only between 59°F and 66°F.







FXMQ_MFVJU SPECIFICATIONS		4 TON 6 TON		8 TON			
Model Name			FXMQ48MFVJU	FXMQ72MFVJU	FXMQ96MFVJU		
Power Supply		V/ph/Hz	208-230/1/60				
Rated Cooling Capacity	1	BTU/h	48,000	72,000	96,000		
Rated Heating Capacity	y	BTU/h	30,000	47,000	59,000		
Airflow Rate		CFM	635	988	1,236		
Weight		lbs.	190	27	71		
Height		in.		18-1/2			
Width		in.	29-1/4	54-	3/8		
Depth		in.	43-5/16				
Sound Pressure		dB(A)	42 47				
External Static Pressur	е	in. Wg	0.88	0.96	1.03		
Dina Connections	Gas	in.	5/8 3/4		7/8		
Pipe Connections	Liquid	in.		3/8			
Donatoralina Doningo			Fuse				
Protection Devices			Fan Motor Thermal Protector				
External Finish			Galvanized Steel Plate				
Operating Range - Cooling °F		°F	66 DB/59 WB - 109 DB/90 WB				
Operating Range - Hear	ting	°F	23 DB to 59 DB				
Discharge Air Temp C	Cooling	°F	55-77				
Discharge Air Temp H	leating	°F	64-86				

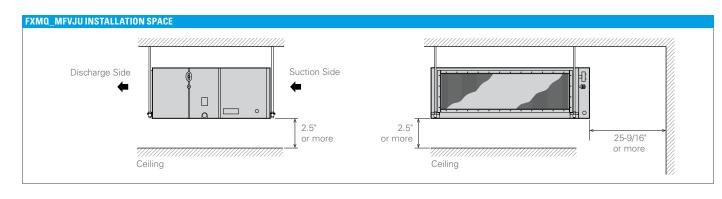
Nominal Conditions:

Cooling Mode Discharge Set Temperature: 64 °F DB Outdoor: 91 °F DB, 82 °F WB (68% RH) Pipe Length: 25 ft. Level Difference: 0 ft.

Heating Mode
Discharge Set Temperature: 77 °F DB
Outdoor: 32 °F DB, 27 °F WB (50% RH)
Pipe Length: 25 ft.
Level Difference: 0 ft.

Note: Specifications are subject to change without notice.

FXMQ_MFVJU ACCESSORIES						
Model Name	FXMQ48MFVJU	FXMQ72MFVJU	FXMQ96MFVJU			
Navigation™ Remote Controller		BRC1E73				
Wireless Remote Controller		BRC4C82				
Remote Sensor Kit		KRCS01-1B				
Wiring Adaptor PCB (interface with aux/primary heater, humidifier, OA damper/fan)		KRP1C74				
Group Control Adaptor PCB (connects to external BMS)	rol Adaptor PCB (connects to external BMS) KRP4A71					
High Efficiency Filter Kit (MERV 13)	DACA-MQ48F131K	DACA-MQ48F131K DACA-MQ96F131K				
High Efficiency Filter Kit (MERV 8)	DACA-MQ48F-8-1K DACA-MQ96F-8-1K					



VAM-GVJU Energy Recovery Ventilator

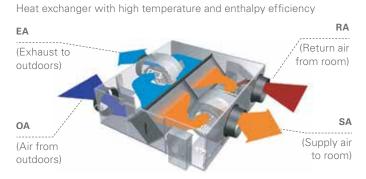


Energy Efficient, Logical, Compact

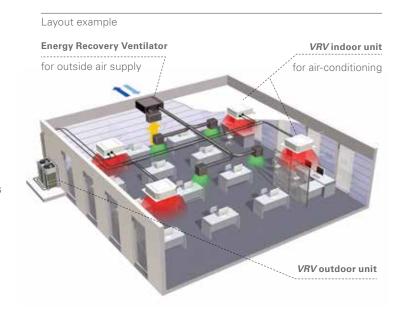
This Energy Recovery Ventilator is designed to maintain good indoor air quality by providing sufficient levels of outside air and recover waste heat from exhaust air leaving the conditioned zone. It is also fully compatible with Daikin's DIII-NET communications.

Features and Benefits

- » Provides energy saving heat recovery ventilation via a heat exchanger with temperature and enthalpy recovery efficiency
- » 0-4% return cross leakage rating
- » Superior performance with a high efficiency fan and the capability for use in a wide range of climates
- » (5 to 122° FDB and 80% RH or less)
- » Unique functions such as independent operation, third party equipment interlocking and automatic night purge to reduce cooling loads and increase energy savings
- » Interlocked simultaneous operation with VRV indoor units
- » Pre-cooling/heating control function to delay the start of ventilation during air conditioner start-up for higher energy savings
- » Supply and exhaust fresh-up operation modes to help control pressure within a space
- » Filter sign and display reset notifies when filter changes are required
- » Temperature recovery efficiency up to 74%
- » Enthalpy recovery efficiency up to 65%
- » ESP as high as 0.76" W.G.
- » Sound levels as low as 25.5 dB(A) for sound sensitive installation locations

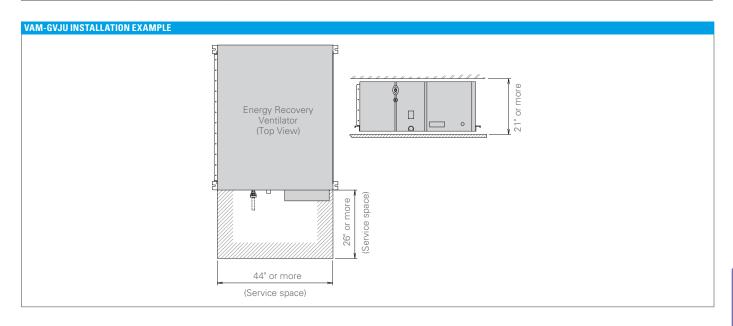








VAM SPECIFICATIONS									
Model Name		Airt	low	VAM300GVJU	VAM470GVJU	VAM600GVJU	VAM1200GVJU		
	Cooling	100	%	65	68	7:	2		
Temperature Recovery	Cooling	75	%	70	72	7.	4		
Efficiency Percentage	Heating	100	%	65	66	7)		
	Heating	75	%	6	9	7:	3		
	Cooling	100	%	40	45	4	9		
Enthalpy Recovery	Cooling	75	%	48	50	5.	2		
Efficiency Percentage	Heating	100	%	57	59	6	D		
	Heating	75	%	63	65	6	3		
Power Supply	Power Supply V/ph/Hz				208-230/1/60				
A:	Heat Exc	Heat Exchange Mode		300/300/170	470/470/390	600/600/500	1,200/1,200/930		
Airflow Rate (H/M/L)	Вура	ss Mode	CFM	300/300/170	470/470/390	600/600/500	1,200/1,200/930		
Weight			lbs.	71	121	148	346		
Height			in.	12-1/16	15-1/4	15-1/4	30-7/8		
Width			in.	34-5/8	43-1	1/16	63-3/4		
Depth			in.	31-1/2	32-3/4	47-13	3/16		
Sound Pressure (H/M/L)			dB(A)	37/33.5/25.5	42/38.5/35	42.5/39/36	44.5/41.5/38.5		
External Static Pressure (H/M/L) in. Wg			0.64/0.26/0.16	0.73/0.39/0.33	0.76/0.34/0.32	0.56/0.24/0.16			
External Finish			Galvanized Steel Plate						
Insulation Material				Self-Extinguishir	ng Urethane Foam				
Connection Duct Diameter			in.	8 10 14			14		
Ambient Conditions A			5°F ~ 122°FDB 80% RH or less						



DVS Dedicated Outside Air System Air Handling Unit Outdoor-Mounted AHU

Seamless Integration with VRV Systems

Daikin DVS Dedicated Outside Air System (DVS - DOAS AHU) is designed for seamless integration with *VRV* aircooled heat recovery outdoor units and controls to provide conditioning of 100% outside ventilation air.

Models, with nominal 1,000, 2,000 and 3,000 CFM air flow rates, can be configured with pre-treatment, cooling, reheat and heating components to be applied to a wide variety of commercial applications desiring the advanced features that *VRV* offers.

Features and Benefits

- » Designed to condition outside air so the comfort system can operate to meet the internal loads while the DVS DOAS AHU's for VRV Systems conditions the outside air and can also deliver neutral air to the space
- » Energy Recovery Wheel section can reduce the mechanical cooling capacity of the system compared to a system without the ERW section
- » Auxiliary heat available in modulating gas heat, SCR controlled electric heat or hot water
- » DVS DOAS AHU's can be integrated into the same intelligent Touch Manager™ (*iTM*) as the comfort cooling and heating *VRV* system
- » Piping connections between the DVS DOAS AHU's and the VRV outdoor units can be made outside
- » Air flow ranges from 670 to 4,000 cfm allow for flexibility in design



DVS DEDICATED OUT	SIDE AIR					
Model Name			DVSV05 with ERW	DVSV10 with ERW	DVSV12 with ERW	
Nominal Air Flow Nominal (Minimum-Maximum)		CFM	1,000 (670 - 1,350)	2,000 (1,600 - 2,650)	3,000 (2,000 - 4,000)	
Nominal Cooling Capaci	BTU/h	41,000	73,000 127,000			
Dimensions ^{1*} (L xW x H)			103 x 71 x 41	103 x 71 x 41 133 x 75 x 57		
Weight ¹		lbs.	1,287 2,266 2,371			
Electrical			3-Phase 208V, 3-phase 230V or 3-Phase 460V			
Refrigerant				R410A		
Auxiliary heater	Gas furnace	MBH	80 / 120 / 160	200 / 300 / 400	200 / 300 / 400	
	Electric heater (kW)	kW	6 / 12 / 18 / 30	30/6/54	36 / 54 / 72	

Weights, dimensions and performance of units are subject to change and will vary based on the components and options that are applied for specific applications. Nominal conditions: Entering air temperature 95°F DBT / 78°F WBT; 55°F leaving air temperature DX coil; 70°F discharge air temperature.



VRV Controls Solution

What are your choices?





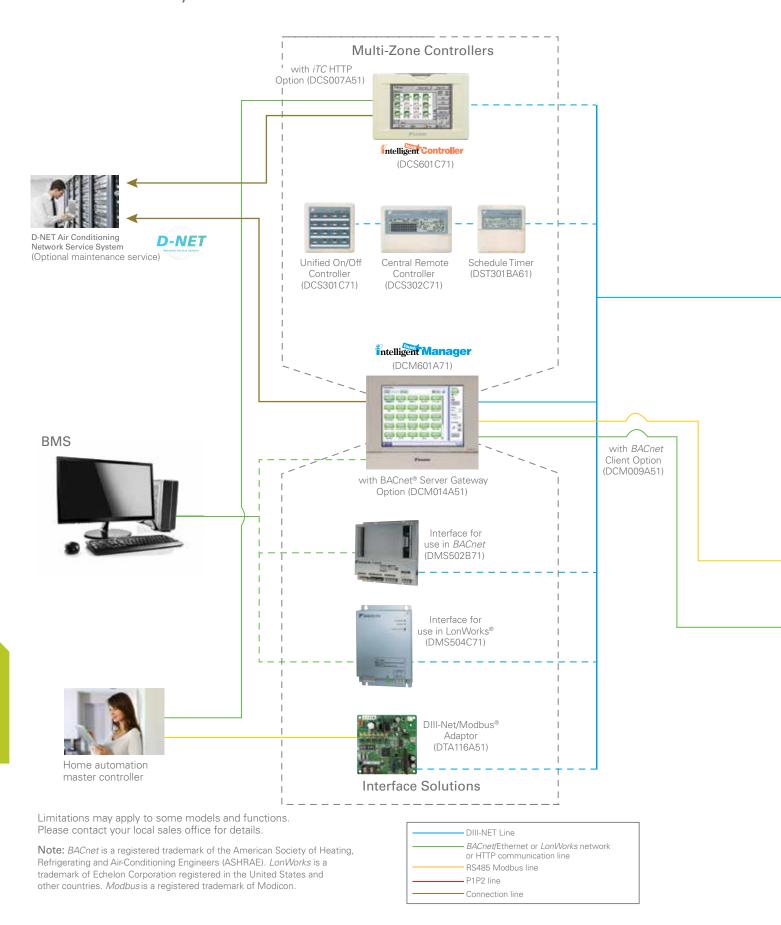


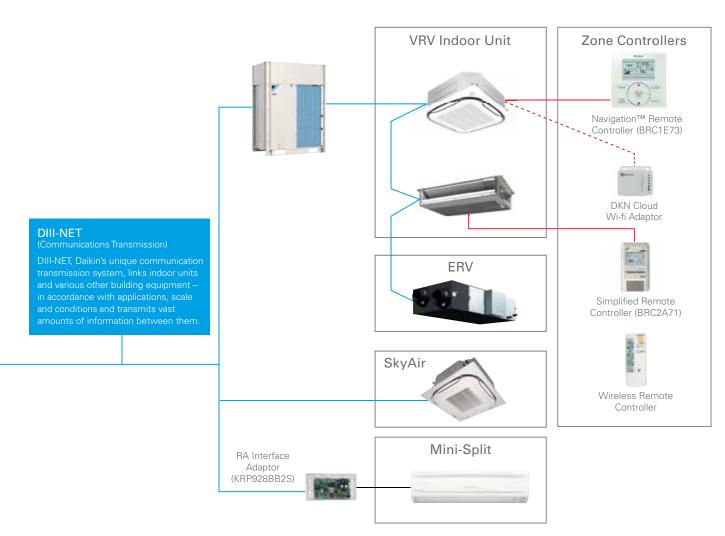


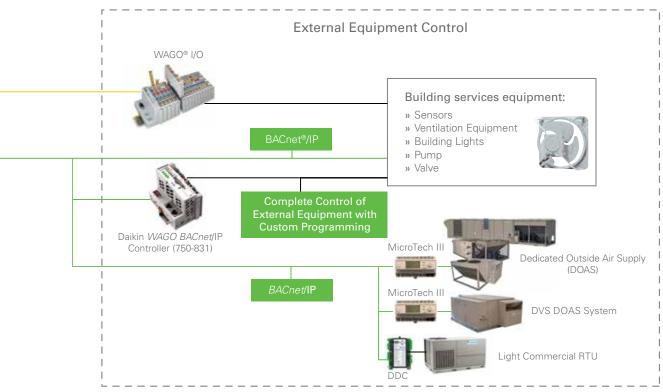




VRV Control Systems Overview







Individual Controllers

BRC1E73 - Navigation™Remote Controller

The NAVIGATION Remote Controller has been enhanced to meet the configuration requirements of Daikin's VRV indoor units. The BRC1E73 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.

Features and Benefits

- » Basic Operation
 - On/Off, operation mode, setpoint
 - Up to 5 fan speeds selectable (enhanced)
 - Airflow direction (enhanced)
 - Individual louver airflow direction
 - Dual airflow
 - Auto-draft prevention (prevents air blowing directly on occupants)

» Function

- Configurable display Detailed, Standard, and Simple
- Dual or single cool and heat setpoints for occupied periods
- Independent setback setpoints for unoccupied periods
- Automatic Setback by occupancy sensor
- Automatic Off by occupancy sensor
- Unwanted buttons/operation modes can be disabled
- Setpoint range limitation
- Individual button prohibits/lockout
- Auto-changeover for Heat Recovery and Heat Pump systems with dual or single setpoints
- Self-cleaning filter panel
- Automatic adjustment for Daylight Savings Time (DST) (enhanced)
- Built in 7, 5+2, 5+1+1, and 1 (everyday) schedule with up to 5 actions per day with independent cooling, heating and setback setpoints
- » More Features
 - Backlit display
 - Room temperature sensor
 - 12/24 hour clock
 - Fahrenheit/Celsius selectable
 - English/French/Spanish languages selectable
 - Remote control group up to 16 indoor units





Auto-changeover



Automatic changeover is available for Heat Pump system and Heat Recovery systems. The setpoint for cooling and heating are configurable with a minimum differential of 0 to 7° F or single setpoint. The changeover is automatically controlled to happen in either of the following two cases:

- Case 1: Changeover at the primary changeover temperature after the guard timer expires.
 - In default, the primary changeover setpoint is 1°
 F above cooling setpoint or 1° F below heating setpoint, which is configurable between 1° F 4°F.
 - In default, the guard timer is 60 minutes, which is selectable among 15, 30, 60 (default) or 90 minutes.
 - The initiation of guard timer is built in to help prevent frequent changeover which may cause energy loss.
- 2. Case 2: Changeover at the secondary changeover temperature.
 - In default, the secondary changeover temperature is 1° F above the primary changeover temperature for cooling or 1°F below the primary changeover temperature for heating, which is configurable between 1° F – 4° F.
 - Case 2 will happen while the guard time is active in case 1.

BRC1E73 - Navigation™ Remote Controller (continued)

Configurable Display Mode – Detailed, Standard, Simple

DISPLAY MODE	DETAILED	STANDARD	SIMPLE NEW		
Display Image	Auto 9 41 _A 72 74.	Auto let in line 74e les 170e	Auto 74. 72, 24. 25.		
On/Off status on LED (LED blinks when an error occurs)	•	•	•		
Mode	1	■ 1	1		
Setpoint (Dual/Single)	2	2	2		
Room temperature			•		
Fan speed	■ 3	3	■ 3		
Airflow direction (when a louver is available)	•				
Day and Time	3				
Status icon	■ 3	3			
Key lock icon	•	•			
Error message					

¹ OFF can be displayed instead of the operation mode while the unit is turned off with the field setting

On/Off Display Option





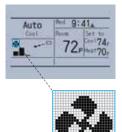
Optional Face Decals – Hides unnecessary (locked/prohibited) buttons

Clear display

- » Backlit display
 - Backlight helps operating in dark rooms.
- » Dot matrix display
 - A combination of fine dots enables various icons.
 - Large text display is easy to see.

Simple operation

- » Large buttons and arrow keys
 - Large buttons and arrow keys enable easy operation. Basic setting such as fan speed and temperature can be intuitively operated. For other settings just select the function from the menu list.







USED WITH	SINGLE SETPOINT MODE			DUAL SETPOINT MODE		
Model	72, 72, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	72, 2 72, 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	72, 2 72, 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	72, • • • • • • • • • • • • • • • • • • •	72, 2	72, • • • • • • • • • • • • • • • • • • •
On/Off				•	•	•
Mode	•		•	•		•
Fan		•	•		•	•
Up, Down		•		•	•	•
Left, Right				•	•	•
Menu/0k						
Cancel						

² Can be removed from the display while the unit is turned off with a field setting

³ Can be removed from the display with a field setting

Individual Controllers (cont.)

BRC1E73 - Navigation™ Remote Controller (continued)

Energy saving

- » Automatic Off by occupancy sensor[†]
 - The indoor unit will turn off when it is determined that the room is unoccupied after a specified time has elapsed.



- Can be used in conjunction with the Auto Setback by sensor function

On/Off
Indoor unit is turned
Off when no one
detected in space

On
Unoccupied 2 hrs.

Energy savings when
room is unoccupied

College classroom sample (a summer Monday case)

Unoccupied

1) 8:30 ON

Occupied

The first period starts and the air conditioner starts the cooling operation.



3) 13:00 ON

When the third period starts, operation starts again.



2) 10:30 OFF

In the second period, the classroom is unoccupied and the air conditioner stops.

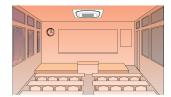
Occupied

T (hrs)



4) 15:00 OFF

After the third period, the classroom becomes vacant again and the air conditioner stops.



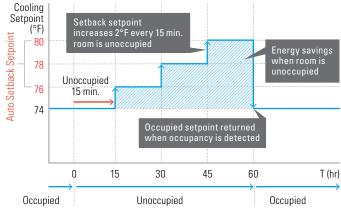
» Auto Setback by sensor[†]

 The cooling and heating setpoints will gradually relax (configurable) internally when the room is determined to be unoccupied.



- The internal setpoint will return to the original setpoint when room occupancy is detected.

Automatic setback energy savings

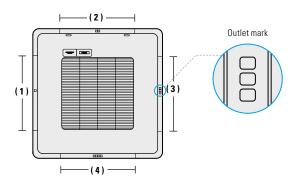




Comfort

- » Individual airflow direction[†]
 - Airflow direction of each of the four air outlets can be controlled individually.
 - (Positions 0 to 4, Swing, and No individual setting are selectable.)
- » Auto airflow rate[†]
 - Airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.
- [†] Only available for *VRV* 4-Way Flow Ceiling Suspended type FXUQ_P series and Ceiling Mounted Cassette (Round Flow with Sensing) type FXFQ_T series.

Individual airflow direction



(1)



(2)



(3)



(4)





Individual Controllers (cont.)

BRC4C82/BRC7E818/BRC7E83/BRC7E830 - Wireless Remote Controller

- » The same operation modes and settings as with wired remote controllers are possible.
 - Individual airflow direction, auto airflow rate and sensing sensor control can be set only via wired remote controller BRC1E73. Cannot be set via other remote controllers.
- » A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.
 - The Ceiling Suspended and Wall Mount indoor units use signal receivers that are mounted in the indoor unit.
 - * Wireless remote controller and signal receiver unit are sold as a set.



Signal receiver unit* (separate type)



Wireless remote* controller

BRC2A71 - Simplified Remote Controller

- » Economical controls solution
- » Suitable for use in hotels rooms, hallways, reception areas and conference rooms
- » Features
 - On/Off
 - Operation mode
 - Single setpoint
 - Fan speed adjustment
 - Can be used with the optional remote temperature sensor for sensing room temperature



Simplified remote controller

AZAI6WSCDKA-DKN Cloud Wi-Fi Adaptor

- » Remote control of VRV indoor units from iOS/Android smartphone app
- » A Navigation remote controller must be used together with the Wi-Fi adaptor
- » Features
 - On/Off
- Room temperature
- Mode
- Error alert
- Setpoint
- Leveled user authority
- Fan speed



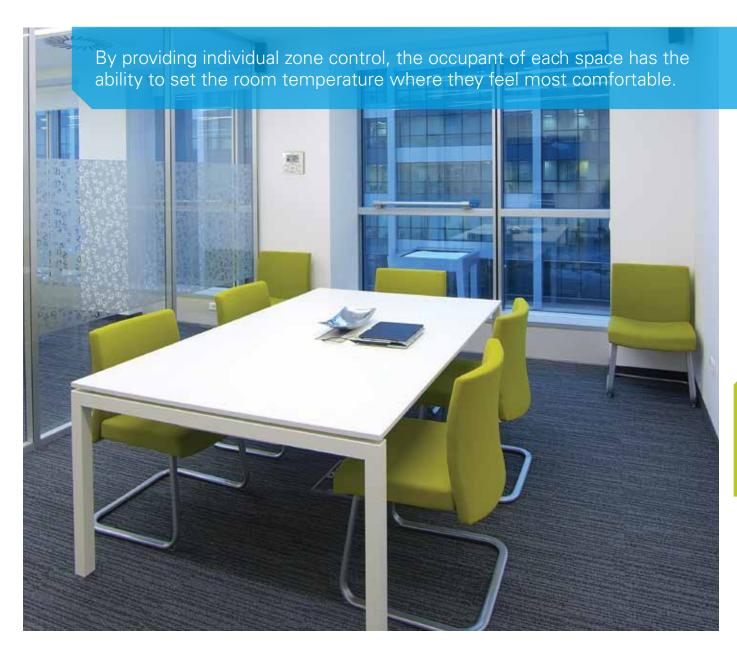
DKN Cloud Wi-fi Adaptor

Summary

REMOTE CONTROLLER COMPATIBILITY WITH VRV INDOOR UNITS											
	FXFQ_TV	FXZQ	FXUQ	FXDQ	FXSQ	FXMQ	FXHQ	FXAQ	FXL(N)Q	FXTQ	FXEQ
Navigation™ remote controller (Wired remote controller)		•	•		•	•			•	•	
Wireless remote controller (Installed type signal receiver unit)		•									
Wireless remote controller (Separate type signal receiver unit)				•	•	•			•		
Simplified remote controller		-	-						•		
DKN Cloud Wi-Fi Adaptor											

[■] No louver control function

INDIVIDUAL CONTROL CAPABILITIES						
System Capabilities			Daikin Controls Options			
	DKN Cloud Wi-Fi Adaptor (AZAI6WSCDKA)	BRC1E73 Navigation ^{IM} Remote Controller	BRC2A71 Simplified Wired Remote Controller	Wireless Remote Controller (model depends on unit)		
Communications	2 Wire / DIII Net	2 Wire / DIII Net	2 Wire / DIII Net	Infrared		
°F/°C Selector		•	°F only	°F only		
Backlit LCD display		•				
Room temperature display		•				
Schedule and setback capabilities (with Time and Date display)		•				
User restriction options		•				
On/Off, Operation mode, Setpoint, Fan speed		•		•		
Louver position adjustment		•				
Reports system malfunctions		•		•		
Space temperature sensor		•				
Simultaneous operation with Daikin multi-zone controllers		•		•		
Simultaneous operation with BACnet® and LonWorks®		•	•	•		
Group control capacity	Up to 16 indoor units	Up to 16 indoor units	Up to 16 indoor units	Up to 16 indoor units		



Advanced Multi-Zone Controllers

DCM601A71 - intelligent Touch Manager™ (iTM)

The *intelligent Touch Manager* (*iTM*) is an advanced multizone controller that provides the most cost-effective way to control and monitor the Daikin *VRV* system.

Centralized and Advanced VRV Control

Up to 64 Indoor Unit Groups (128 actual Indoor Units) can be monitored and controlled with individual Cool and Heat Setpoints, Setpoint Range Limitation, Setback Setpoints, and Auto changeover to meet your expectations and project requirements. Up to 512 Indoor Unit Groups (1024 actual Indoor Units) can be monitored and controlled with the addition of up to 7 optional *iTM* Plus Adaptors (DCM601A72).

Built-in Service Tool with Remote Access

- » Operation data are stored in the iTM for the last 5 days:
 - Indoor unit and outdoor unit operation data
 - BACnet Client objects
 - WAGO I/O system data
- » Operation data can be exported through a USB drive or through the iTM web browser remotely
- » BMS can monitor the BACnet objects of indoor unit and outdoor unit operation data with the BACnet Server Gateway Option activated

Ancillary Equipment Control

Integrates and/or interlocks sensors, switches, dampers, fans, pumps, and lighting with Daikin Indoor Units.

Web Access and Alert E-mail

Allows daily remote monitoring and control with the Web/E-mail function that can be accessed via the facility's Local Area Network or your Internet connection. Sends Error E-mail to mobile devices with the Web/E-mail function.

Tenant Billing

Determines energy consumption of shared condensing units based upon tenant (Indoor Unit) demand using the PPD Software option (DCM002A71).

Features

- » 10.4" LCD touch screen, USB drive
- » Advanced, scalable and cost-effective management system
 - Up to 650 points (max 512 indoor unit groups (1024 indoor units)
 - Floor plan layout view

Functions

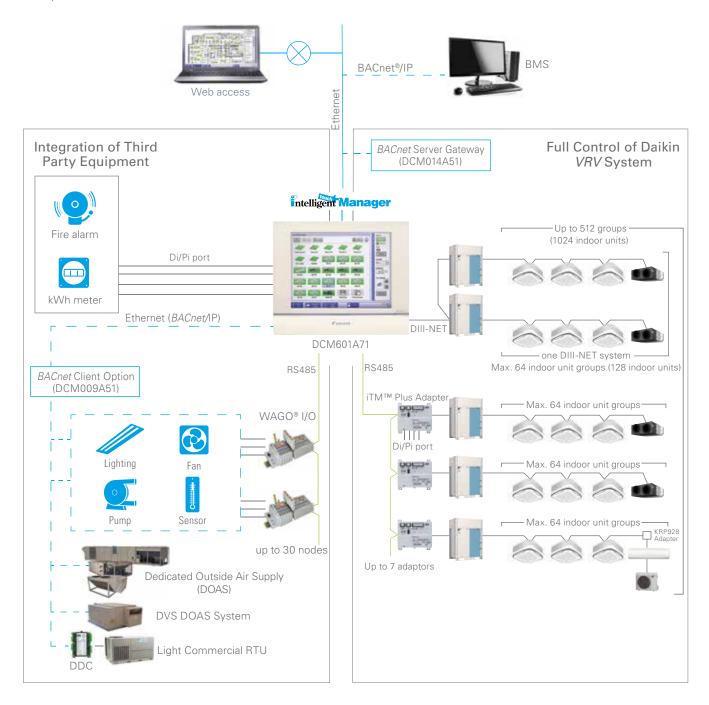
- » Dual setpoints or Single setpoint in Occ or Setback in Unocc
- » Setpoint Range Limitation





- » Scheduling (7 day, Weekday-Weekend, Weekday-Saturday-Sunday, Everyday)
- » Optimum Start and Timed Override
- » Advanced Auto changeover
 - Applicable to both VRV Heat Pump and Heat Recovery systems
 - Fixed, Individual, Average and Vote methods
- » Web Accessibility and Alert Email (standardized)
 - All screen views and configuration menus can be accessed through Web
- » WAGO® I/O
 - Monitor and control 3rd party equipment with DI, DO, AI and AO signals
 - Up to 512 management points
 - Interlock function with indoor units and ancillary equipment
- » Power Proportional Distribution Option (DCM002A71)
 - Calculates apportionment of outdoor unit's total power consumption to individual units on the system
- » iTM BACnet® Client Option (DCM009A51)
 - Enabling the *BACnet* Client option allows the *iTM* to use the *BACnet* IP protocol
 - Allows for full monitoring and control of 3rd party BACnet capable equipment
 - Up to 512 BACnet management points
- » iTM BACnet Server Gateway Option (DCM014A51)
 - Enable BMS to control indoor units and/or monitor outdoor unit operation via BACnet/IP (up to a total of 128 BACnet device IDs and 4000 BACnet objects)
 - Virtual router function embedded that enables individual and configurable BACnet device ID for each indoor unit group address and each outdoor unit.

iTM™ System Overview



Advanced Multi-Zone Controllers (cont.)

DCS601C71 – intelligent Touch Controller™ (*iTC*) Centralized and Advanced *VRV* Control

Up to 64 Indoor Unit Groups (128 actual Indoor Units) can be monitored and controlled with individual Cool and Heat Setpoints, Setpoint Range Limitation, Setback Setpoints, and Auto changeover to meet your expectations and project requirements. Up to 128 Indoor Unit Groups (256 actual Indoor Units) can be monitored and controlled with the addition of the Optional DIII-Net Plus Adaptor (DCS601A72).

Ancillary Equipment Control

Integrates and/or interlocks sensors, switches, dampers, fans, pumps, and lighting with Daikin Indoor Units.

Web Access and Alert E-mail

Allows daily remote monitoring and control with the Web/E-mail Software option that can be accessed via the facility's Local Area Network or your Internet connection. Sends Error E-mail to mobile devices with the optional Web/E-mail Software option (DCS004A71).

Tenant Billing

Determines energy consumption of shared condensing units based upon tenant (Indoor Unit) demand using the PPD Software option (DCS002A71).

Features

- » Color LCD touch panel icon display
- » Simplified engineering
- » Multi language (English, French, Italian, German, Spanish)
- » Yearly schedule
- » Independent dual or single setpoints for occupied and setback operation
- » Auto heat/cool changeover
- » Enhanced history function
- » Simple Interlock Function
- » Doubling of number of connectable indoor units by adding a DIII-NET Plus Adaptor (option)





Functions

- » Advanced Zone Level Control
 - Add advanced temperature control functions from a single multi-zone controller
- » Independent Cool, Heat, and Setback Setpoints
- » Advanced Auto changeover
 - Applicable to both VRV Heat Pump and Heat Recovery systems
 - Fixed, Individual, and Average methods
- » Scheduling (7 day, Weekday-Weekend, Weekday-Saturday-Sunday)
- » Centralized Control with three different view styles
- » Setpoint Range Limit
- » Simple interlock
- » PPD (tenant billing option) (DCS002A71)
- » Web server/alarm email (DCS004A71)
- » HTTP interface (option) (DCS007A51)



Ancillary equipment control Centralized and advanced VRV control Key card Digital input Occupancy (DI) unit sensor Ancillary equipment Digital input/output (DIO) unit Emergency/forced shutdown Damper DIII-Net Plus Adapter Pulse input Ethernet FDAIRIN **Energy meter** Power Proportional Distribution (PPD)
- apportions total outdoor unit power consumption among indoor units with optional PPD software PC Web access and alert e-mail Tenant power consumption

iTC™ system overview

Centralized Controllers

DCS302C71 - Central Remote Controller

Maximum 64 groups (zones) of indoor units can be controlled individually.

- » Maximum 64 groups (128 indoor units) controllable
- Maximum 128 groups

 (128 indoor units) are
 controllable by using 2 Central Remote Controllers,
 which can control from 2 different places.
- » Zone control
- » Malfunction code display



- » Maximum wiring length 3280 ft. (Total: 6560 ft.)
- » Connectable with Unified ON/OFF Controller, Schedule Timer and BMS system
- » Airflow volume and direction can be controlled individually for indoor units in each group operation.
- » Ventilation volume and mode can be controlled for Energy Recovery Ventilator.
- » Up to 4 ON/OFF pairs can be set per day by connecting a schedule timer.



DCS301C71 - Unified On/Off Controller

Maximum 16 groups of indoor units can be operated simultaneously/individually.

- » Maximum 16 groups (128 indoor units) controllable
- » Operating status indication (Normal operation, Alarm)
- » Centralized control indication
- » Maximum wiring length 3280 ft. (total: 6560 ft.)
- » Compact size casing (thickness: 0.63in)
- » Connectable with Central Remote Controller, Schedule Timer and BMS system



DST301BA61 - Schedule Timer

Maximum 128 indoor units can be operated by programmed schedule.

- » Maximum 128 indoor units controllable
- » When used in combination with a Central Remote Controller, a maximum of 8 weekly schedule patterns can be set, while the Central Remote Controller can be used to select desired zones. Up to 2 ON/OFF pairs can be set per day.
- » Maximum 48 hours back up power supply
- » Maximum wiring length 3280 ft. (total: 6560 ft.)
- » Compact size casing (thickness: 0.63in)
- » Connectable with Central Remote Controller, Unified ON/OFF controller and BMS system



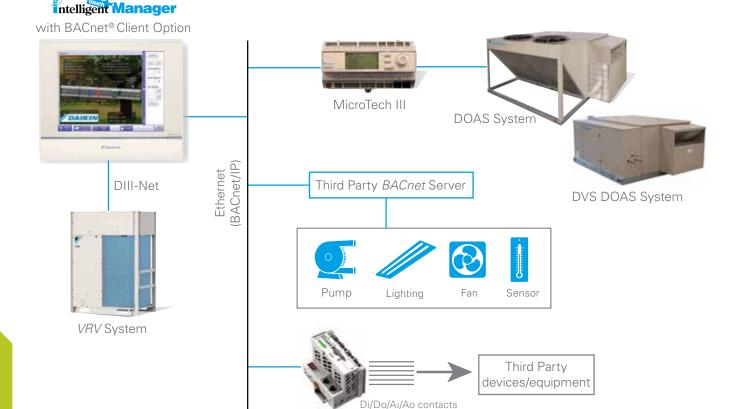
External Equipment Control

DCM009A51 - iTM BACnet® Client Option

The iTM offers an advanced and cost-effective solution for Building Management Systems (BMS) applications. The iTM BACnet Client Option (DCM009A51) provides more flexibility to enhance the iTM's function as a mini BMS. With this option, the iTM is able to manage DOAS systems and other third party equipment through the BACnet/IP protocol. By registering equipment connected to a BACnet server as management points in the iTM, you can now monitor and control the equipment via the iTM.

Features

- » Cost- effective BMS solution
- » Direct connection on iTM using the BACnet/IP Protocol
- » Integrated control on Daikin VRV system and Daikin Applied System
- » Monitors and controls third party equipment
- » Easy commissioning with pre-engineering Preset Tool
- » Easy monitoring with preconfigured GUI



Object Types

- » Analog Input, Analog Output, Analog Value
- » Binary Input, Binary Output, Binary Value
- » Multi-State Input, Multi-State Output, Multi-State Value

Applications

750-831 Daikin WAGO® BACnet/IP Controller

- » Simple I/O: Sensor, Pump, Light, Fan
- » Multi-State Objects: AHU, Alarm, Elevator
- » The iTM can integrate with the WAGO® BACnet/IP Controller (750-831) using the BACnet Client Server Option

External Equipment Control (cont.)

750-831 - Daikin WAGO® BACnet®/IP Controller

The Daikin WAGO BACnet/IP Controller (750-831) is a programmable controller that connects the WAGO I/O system to the BACnet protocol. This controller provides the three following functionalities:

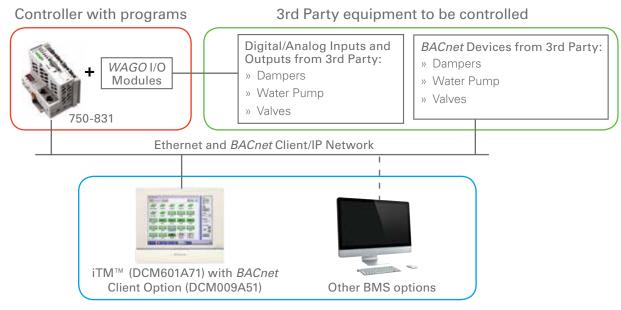
- » Native server: BACnet objects are generated automatically for the DI, DO, AI, AO modules that are connected to the controller.
- » Application server: Other supported BACnet objects can be created via programming and made available to a BACnet network.
- » Application client: Using the client functionality, BACnet objects and the properties of the external equipment can be accessed.



750-831 Daikin *WAGO BACnet*/IP Controller

Daikin's *VRV* Marketing Controls Group will provide customizable programming (programming and commission fees apply) for applications where external equipment control is needed. The following application programs are now available:

- » Water-Cooled VRV Valve Control: Valve control for Water-Cooled VRV project
- » Ambient Enclosure Heater Control: Damper and auxiliary heater control for outdoor unit dog house projects in cold climate
- » Trending: Trending Client for VRV
- » Custom programming available to fit individual project needs



Monitoring and Management Options

Interface Solutions

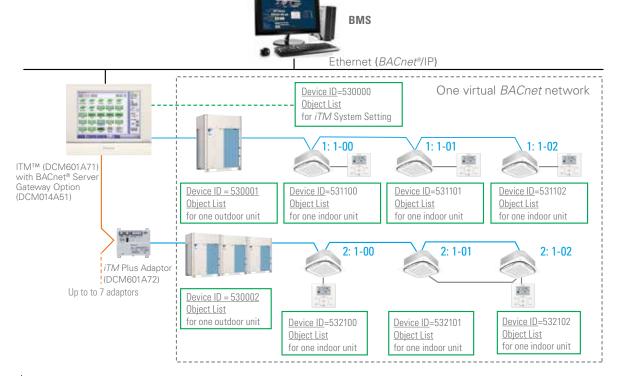
DCM014A51 - iTM™ BACnet® Server Gateway Option

The *intelligent Touch Manager* is capable of serving as a *BACnet* interface for Building Management System (BMS) integration. With the *iTM BACnet* Server Gateway Option (DCM014A51), the *iTM* provides BMS integrators with the ability to monitor and/or control the *VRV* indoor and outdoor units, eliminating the need for an additional hardware interface. Moreover, with the latest software update to the *iTM* 2+ (v2.06), the *iTM* is able to serve as a service tool to access indoor and outdoor unit operation data. With the *iTM BACnet* Server Gateway Option, the operation data points for both the IDU (indoor unit) and ODU (outdoor unit) are also available to the BMS through *BACnet*.

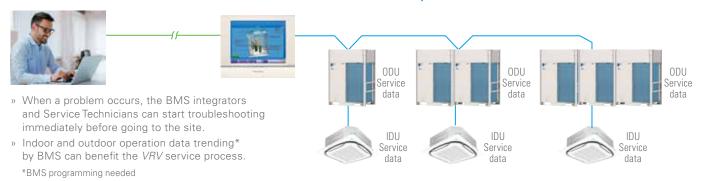
Features

- » Additional service data points are now available*:
 - 6 new IDU service data points
 - 9 new common ODU service data points and
 22 new service data points for each ODU module
- » Direct connection on iTM using the BACnet/IP Protocol
- » Supports Change of Value (COV) notifications to the BMS

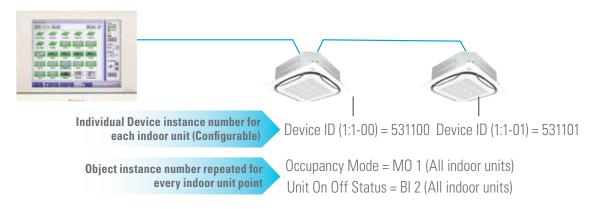
- » Configurable as a BACnet foreign device if a BBMD exist on a different subnet within a BACnet network
- » BACnet virtual router function implemented:
 - Individual BACnet device ID assigned to each indoor unit group address and each outdoor unit
 - Indoor unit group names created in the iTM are visible on the BMS
- » Easy commissioning using CSV file
 - Available objects can be configured for each indoor unit
- » Independent heating and cooling setpoints for occupied and unoccupied periods
- » Individual min/max Setpoint Range Limitation for heat and cool modes
- » The iTM's auto changeover, setpoint range limitation, setback, dual setpoint logic and schedule can be accessed by the BMS
- » Up to 128 Device IDs (including both indoor units and outdoor units) and up to 4000 BACnet objects can be monitored and controlled by BMS.
 - When the IDU/ODU operation data is enabled a total of 128 devices and 4000 *BACnet* points are available
- » Up to 7 iTM Plus Adaptors can be connected to an iTM for a total of 8 DIII-Net ports



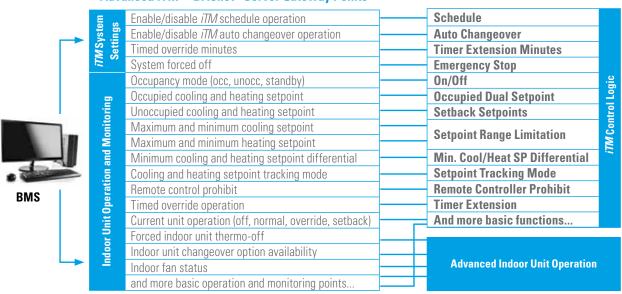
Powerful Service Tool with Indoor and Outdoor Unit Operation Data Points



Enhanced BMS Integration Solution for Indoor Unit Operation



Advanced iTM™ BACnet® Server Gateway Points



Interface Solutions (cont.)

DMS502B71 - Interface for use in BACnet®

- » BACnet: Building Automation and Control Networks
 - Standard open protocol based on ANSI/ASHREA Standard 135
- » Monitor/Control indoor unit's points
- » Monitor/Control up to 256 indoor units groups (512 indoor units)
- » Certified by BACnet Testing Laboratories (BTL)

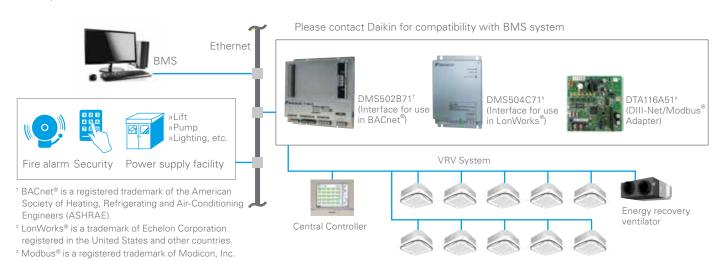




DMS504C71 Interface for use in LonWorks®

- » BMS interface based on LonTalk
- » Interface between Daikin DIII-Net and BMS LonTalk work station
 - Manages up to 64 indoor unit groups (128 indoor units) with network variables for each group
 - Manages 1 DIII-Net system
- » Lon Interface communicates over twisted pair wire
- » External Interface File (XIF) documents device information available at www.daikinac.com

BACnet, LonWorks and Modbus® Interface overview



Daikin's *BACnet*, *LonWorks* and *Modbus* interface units provides control for all *VRV* systems.

DTA116A51 - DIII-Net Modbus Adaptor

- » BMS interface based on *Modbus* (RS485)
- » Gateway between Daikin DIII-Net and BMS *Modbus* workstation
 - Manages up to 16 VRV indoor units connected to up to 2 outdoor units
- » Modbus interface communicates via Modbus RTU

VRV Monitoring Services

D-NET Air Conditioning Network Service System

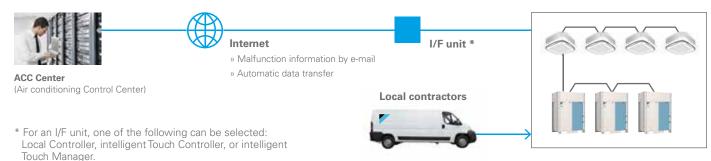
Save energy. Protect your equipment investment. Maintain comfort levels.



D-NET connects your equipment to our monitoring center over the web. We continually monitor more than 80 data points in your equipment*, so we know exactly how your systems are performing. We also monitor outside

conditions from more than 400 locations across the United States and Canada, so we know what kind of weather you're up against. Putting this information together, we know if your systems can be optimized remotely to reduce your energy consumption.

D-NET Air Conditioning Network Service System overview





Controls Product List

Individual Controllers

ITEM	MODEL NO.	FUNCTION
Navigation™ Remote Controller	BRC1E73	Programmable zone controller
DKN Cloud Wi-Fi Adaptor	AZAI6WSCDKA	Remote control by smartphone app
Wireless Remote Controller	BRC4C82 BRC7C812 BRC7E818 BRC7E83 BRC7E830	Hand-held zone controller with infrared receiver kit
Simplified Remote Controller	BRC2A71	Non-programmable zone controller

Multi-Zone Controllers and Options

ITEM		MODEL NO.	FUNCTION					
intelligent Touch Manager	intelligent Touch Manager™	DCM601A71	Air-conditioning management system that can be controlled by touch screen or web browser to monitor and control up to 64 groups (10 outdoor units)					
	iTM™ Plus Adaptor	DCM601A72	Maximum of 7 iTM Plus Adaptors can be connected to intelligent Touch Manager. Each iTM Plus Adaptor can add up to 64 additional groups (10 outdoor units)					
	iTM PPD Option	DCM002A71	Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh meter					
	™BACnet® Client Option	DCM009A51	The BACnet Client Option enables the iTM to control and monitor equipment through the BACnet/IP protocol					
	iTM BACnet Server Gateway Option*	DCM014A51	The BACnet Server Gateway Option provide BMS integrators with the ability to monitor and control the VRV indoor units via the BACnet/IP protocol.					
intelligent Touch Controller	intelligent Touch Controller	DCS601C71	Air-Conditioning management system that can control up to 64 groups (10 outdoor units).					
	DIII-Net Plus Adaptor	DCS601A72	Additional 64 groups (10 outdoor units) are possible.					
	iTC™ PPD Option	DCS002A71	Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh meter.					
	TC Web Option	DCS004A71	Provides access to ΠC via web browser with PC. Error Email sent when errors occur.					
	ITC HTTP Interface Option	DCS007A51	Interface to home automation system certified with Crestron Home Automation					
Central Remote Controller		DCS302C71	Up to 64 groups of indoor units (128 units) can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connect up to 2 controller in one system.					
Unified ON/OFF controller		DCS301C71	Up to 16 groups of indoor units (128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction status can be displayed. Can be used in combination with up to 8 controllers.					
Schedule Timer		DST301BA61	Weekly schedule can be programmed by the controller for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day.					

^{*} $\overline{\textit{ITM BACnet}}$ Server Gateway Option is not compatible with $\overline{\textit{ITM}}$ PPD option and $\overline{\textit{ITM BACnet}}$ Client option.

Hardware Interface Solutions

ITEM	MODEL NO.	FUNCTION
Interface for use in BACnet	DMS502B71	Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet/IP communication.
Optional DIII board	DAM411B51	Expansion kit, installed on DMS502B71, to provide 2 more DIII-NET communication ports. Not usable independently.
Interface for use in LonWorks®	DMS504C71	Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LonWorks communication
Interface for use in Modbus®	DTA116A51	Use of the <i>Modbus</i> protocol enables the connection of the <i>VRV</i> system with a variety of home automation and BMS systems from other manufacturers.

Adaptors

ITEM	MODEL NO.	FUNCTION
Digital Input (Di) Unit	DEC101A51-US2	Monitor On/Off and Error status of ancillary equipment
Digital Input/Output (Dio) Unit	DEC102A51-US2	Monitor and control of ancillary equipment
DIII-Net Expander Adaptor	DTA109A51	Apply to increase the number of outdoor units (up to another 10) connected in one DIII-Net system. Apply to overcome communication errors in electrically noisy environments.
Unification Adaptor for Computerized Control	DCS302A72	Turn On/Off the system from a central panel through Centralized Controller or iTouch Controller. Monitor On/Off and Error Status.
External control Adaptor for Outdoor Unit	DTA104A53/61/62	Unified changeover of Cool/Heat mode. To change the mode of several outdoor units by one remote controller. Demand Control. Low Noise Control: -2 to 3 dB of outdoor unit
Group Control Adaptor	KRP4A71/72/73/74	Turn On/Off Remote Control Group. Change setpoint (with resistance interface 0-135 ohm). Monitor On/Off and Error status
ABC Terminal Kit	BRP2A81	Remotely manage the operating mode of the heat pump system. Integration point for ambient thermostats to engage lock-out
Wiring Adaptor	KRP1C74/75	Thermo-on status. Fan status. AUX heater output. Humidifier output
RA Interface Adaptor for DIII-Net Use	KRP928B2S	Mini-split can be controlled through DIII-NET
RA PCB Adaptor for Time Clock	KRP413A1S	Remotely Start / Stop for mini-split indoor units

WAGO® I/O System

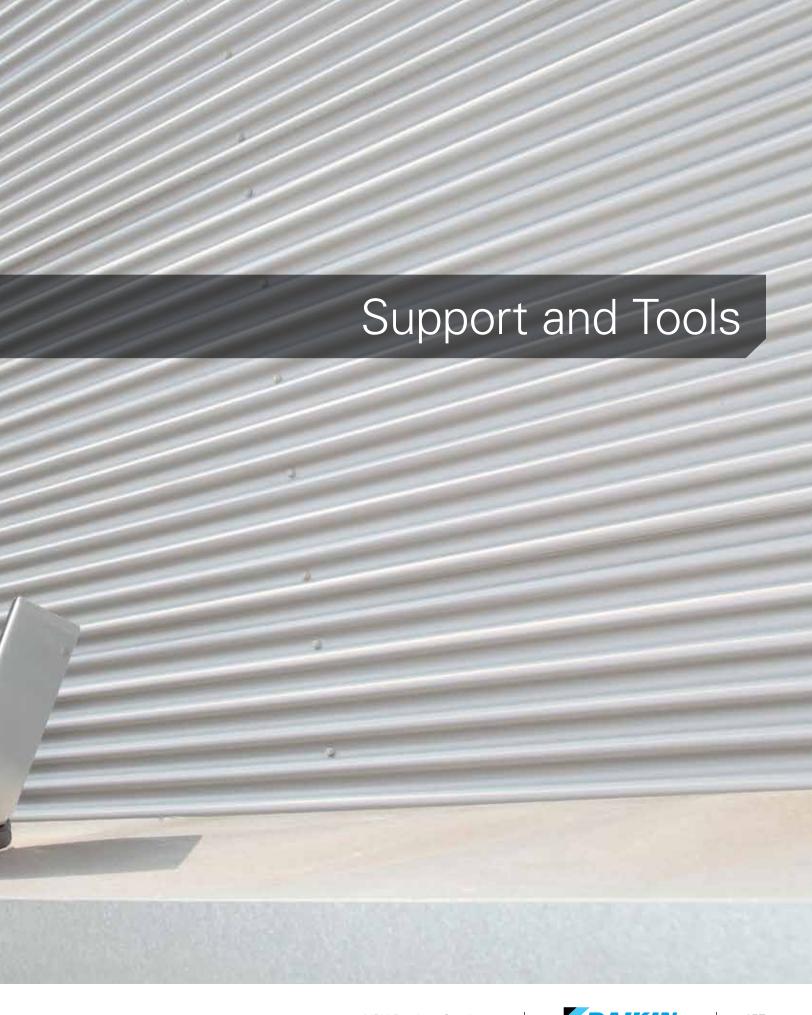
MODULE		PART NUMBER	DESCRIPTION						
Basic Kit		60359653	Bus Coupler, Connector, 24 VDC Power Supply, and End Module						
	2 Channel DI	750-400	2 Channel Digital Input Module, 24 VDC						
Digital Input	4 Channel DI	750-432	4 Channel Digital Input Module, 24 VDC						
8 Channel DI		750-430	8 Channel Digital Input Module, 24 VDC						
Digital Output	2 Channel DO	750-513/000-001	2 Channel Digital Output Module, without power jumper						
Digital Output	4 Channel DO	750-504	4 Channel Digital Output Module, 24 VDC						
		750-454	2 Channel Analog Input Module, 4-20 mA, Differential Inputs						
	2 Channel Al	750-479	2 Channel Analog Input Module, ± 10 VDC, Differential Measurement Input						
Analog Input 4 Channel AI		750-461/020-000	2 Channel Analog Input Module, NTC 20k Ohm						
		750-455	4 Channel Analog Input Module, 4-20 mA, single-ended						
		750-459	4 C hannel Analog Input Module, 0-10 VDC, single-ended						
	2 Channel AO 750-554		2 Channel Analog Output Module, 4-20 mA						
Analag Outnut	Z GIIdilliel AU	750-550	2 Channel Analog Output Module, 0-10 VDC						
Analog Output	4 Channel AO	750-555	4 Channel Analog Output Module, 4-20 mA						
	4 Channel AU 750-559		4 Channel Analog Output Module, 0-10 VDC						
Internal System Power Supply		750-613	24 VDC Bus Power Supply Module, Required for use after every						
internal dystem rower dupply		730 013	32 contact points connected in a node						
Passive Power Sup	assive Power Supply 750-602		24 VDC Power Supply Module, passive						
24 VDC Jumper		750-603	24 VDC Power Jumper Module, for use with 8 channel DI module						

Daikin WAGO® BACnet®/IP Controller and Parts

PART NUMBER	NAME	DESCRIPTION
750-831	Daikin WAGOBACnet/IP Controller	WAGO BACnet/IP Controller
759-302/000-923	WAGO I/O Check USB kit	WAGO I/O Check CD ROM and service cable
787-712	24 VDC Power Supply	24 VDC Power Supply
750-600	End Module	WAGO End Module







Support and Tools



Daikin provides multiple tools to aid the design, selection, analysis, submission, and general support for its line up of ductless, rooftop, light commercial split and specifically for the full line of Daikin *VRV* systems.

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		TOOL	.S														
		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 e Quip application	Dr. Daikin	VRV Configurator	Service Checker	Online Spare Parts Bank
Selection	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	•	•													
Energy screening and simulation					•	•	•										
Design and verification								•	•	•	•						
Online and tablet reference (spec, data, submittal)												•					
Smartphone and mobile reference	Prison												•	•			
After sales and service															•	•	•

Support and Tools (cont.)



WebXpress



A key tool for Reps, Consulting Engineers and Contractors to use is the suite of **Xpress** selection software. These tools are web based and windows based EXE file designed to provide quick, easy and above all accurate selections of *VRV* systems and ventilation devices. Inputs can be customized to meet a variety of project needs and has the following features and benefits:

- » Fully array of software configuration settings
- » Select and customize indoor unit types with options/accessories
- » Optimize condensing unit selections based on block load characteristics
- » Define pipe sizes and lengths and both local and centralized wiring schemes
- » Define and generate selection reports in Word (DOC), Excel (XLS), or CAD (DXF) formats

As controls for variable refrigerant flow system systems become much more sophisticated at both a zone and building level, ensuring the full array of features are captured, Daikin has developed a simple **controls configurator tool** allowing the consulting engineer or contractor to capture all of the features that are needed to be utilized with the suite of controls products from Daikin so to ensure that the commissioning engineer can then set-up and configure the system appropriately at start up.



IES-VE plug-in for Daikin VRV



Energy screening and simulation tools

With the continued trend in looking at building costs beyond just the 1st cost, accurately screening or simulating the performance of systems in buildings at the conceptual stage is more important than ever. Daikin recognizes this need and has developed a variety of support tools for this purpose.

Online VRV energy calculator

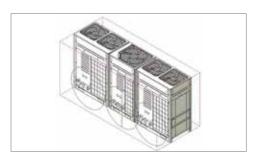
- » Easy access and registration via online.
- » Free of charge and easy to use.
- » Allows for a semi-dynamic energy screening to be completed for VRV only. Provides useful information such as part load curves, estimated annualized operating costs etc.

IES-VE plug-in for Daikin VRV

- » One of the leading Energy Simulation programs in Europe is now gaining awareness and a growing user-base in North America.
- With the Daikin VRV plug in for IES-VE you can take advantage of the enhanced energy simulation capabilities with the IES platform and combine in a fully validated modeling methodology for Daikin VRV systems including the innovative and energy saving "VRT" function. The results of the IES-VE simulations can be utilized for LEED, California Title 24 and other regulatory energy simulation requirements.

» Performance curve/plug-ins for 3rd party modeling software

- » Daikin have developed curves, instructions and sample building files for a variety of other 3rd party energy simulation software programs such as:
 - eQuest
- Energy Pro
- Trace 700
- Energy Plus (VRV HP only)
- HAP



Revit



Design and verification

Equipment Selection and Energy Simulation only reflect the early stages of a project evolution. At Daikin we recognize the importance of additionally providing resources to the Engineer and Architect community as well as contractors as follows:

- » CAD files for all products in multiple formats (DWG and DXF), etc.
- » Revit files for BIM architecture for all products

» Refrigerant Charge Calculator

- Quick check of the total refrigerant charge in a VRV System based on applied pipelengths and combination ratio's etc
- Quick check of the minimum room volume (occupied space) that system charge can be utilized in per ASHRAE Standard 15-2010 and ASHRAE Standard 34-2010.

» Ventilation Rate Calculator

- Easy to use calculator to determine ventilation rates required for different room sizes and applications in accordance with ASHRAE Standard 62.1-2013.



www.DaikinCity.com



Online and tablet reference material

Daikin City serves as the multi-functional portal for all disciplines interested in or already using Daikin products and technologies for a project. More than just a typical website, Daikin City provides:

- » Energy-saving characteristics of VRV systems in various vertical market buildings
- » Product videos and feature summaries via the communications center
- » A fully stocked library of information simply arranged for ease of finding any piece of Daikin information you may need such as IOM's, brochures, engineering data, and application guides etc (registration required).
- » Easy access to the suite of sales tools that Daikin offer (registration required).
- » An easy to use product specification library to quickly verify any spec item required, or to generate a submittal data sheet, guide spec or confirmation of the available accessories and options for a specific product (registration required).



Support and Tools (cont.)



Daikin eQuip application



Smartphone and mobile reference

» With the Daikin eQuip application, available for both iOS devices and Android devices, you can have the power of all Daikin product information and support material readily accessible on your mobile device or tablet.



www.DrDaikin.com

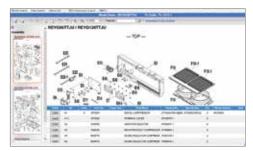
» For rapid resolution to a system with an error code, or general troubleshooting needs, the Dr. Daikin tool is a helpful and quick reference tool that works via a standard desktop, tablet or smartphone and even SMS. When you need to understand or isolate the scope of one of Daikin's diagnostic codes, enter the code into the Dr. Daikin resource and automatically the tool will provide feedback of what the diagnostic code refers to and straightforward guidance on how to address the code.

Visit www.drdaikin.com for further information.





Daikin VRV Configurator



Daikin's online spare parts databank



After sales and service

With a strong commitment to sales tools to help design and apply the product is equally supported with a strong commitment on after-sales and service tools aimed at the service contractor or maintenance technician.

- » Daikin VRV Configurator is a PC based software tool that allows an installing contractor to "set-up" the operating parameters and field settings of the VRV IV outdoor units off-site and then use a handy USB connection to upload those settings during the commissioning process. This helps save time and ensure that projects with multiple systems can be set up correctly and error free. The Configurator tool also allows for up to 48hrs of operation data from an installed system to be downloaded to a laptop computer for analysis if needed.
- » Daikin VRV Service Checker is a PC based software tool that facilitates a connection to the system and monitors all components of the system including temperatures, pressures, compressor and fan speeds, and may other items and can be utilized to understand operational trends with the system and what is happening in the system at a specific

time. This tool is very helpful when troubleshooting a system in the event of error or diagnostic notification.

- » Daikin's online spare parts databank (registration required) is an easy to use graphically driven means of identifying what spare or replacement part might be needed during the life cycle of the VRV equipment. Using this resource will help you identify the part number, applicable model, any alternative part options, and the availability of the part both locally and globally.
- » Daikin University offers Daikin's customers a variety of quality training programs designed to provide the tools and resources needed for our customers to be successful.
 - Our courses are designed by training professionals around specific objectives based on industry needs and job task analysis. We offer a choice of instructional settings based on the program goals and our students' needs including: online/on-demand web-based training, instructor led webinars, onsite training, and instructor-led classroom training at one of our many Daikin Authorized training facilities.

Notes

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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.

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.

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