Setting Daikin's new standards in indoor comfort and efficiency
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A WORLD LEADING MANUFACTURER OF HVAC PRODUCTS

FOUNDED IN 1924

OVER 60,000 DAIKIN VRV SYSTEMS OPERATING THROUGHOUT NORTH AMERICA

RESEARCH & DEVELOPMENT & $300 MILLION
Why choose Daikin?

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.

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.

Research & development

Manufacturing

Sales

After sales service
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.

Applications

» Multi-family residences
» Retail
» Hotels
» Office buildings
» Schools, 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:
- Outdoor unit
- 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**

- 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.
Our quality control is based on the idea that the added value we give to products is quality, and that this quality is what customers are buying. And each Daikin employee constantly puts quality ahead of everything else.
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 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.

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.

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

<table>
<thead>
<tr>
<th>CAPACITY - TONS</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
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<th>28</th>
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<th>32</th>
<th>34</th>
<th>36</th>
<th>38</th>
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<tbody>
<tr>
<td>VRV Heat Pump</td>
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<tr>
<td>VRV IV X Heat Recovery</td>
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</tbody>
</table>
**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.
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.

Case study – Measured monthly energy usage for a VRV system without VRT and with VRT, installed in a European retail shop

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.
Variable Refrigerant Temperature

Fixed Refrigerant Temperature

HIGH SENSIBLE MODE
Fixed target Te

AUTO MODE
Floating target Te depending on heat load

BASIC MODE
Fixed Te - Standard control

ECO MODE
Fine control to match user preference available through mode selection

SELECTING VRT ENABLES OPERATION TO BE OPTIMISED FOR EITHER ENERGY EFFICIENCY OR RAPID COOLING.

Floating Te

POWERFUL MODE
Reaction speed: Very Fast

QUICK MODE
Reaction speed: Fast

MILD MODE
Reaction speed: Medium

ECO MODE
Unable to change Te

Fixed Te

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.

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

Selecting VRT enables operation to be optimised for either energy efficiency or rapid cooling.

Up to 28% improved seasonal cooling efficiency vs. VRV III.*

* In markets where cooling is dominant, VRT functionality for heating operation improves the efficiency as well.
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

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

Temperature Limits

**VRV Air-Cooled**

<table>
<thead>
<tr>
<th>Ambient Temperature (°F)</th>
<th>Heat Pump</th>
<th>Heat Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>122</td>
<td>VIA</td>
<td>VIA</td>
</tr>
<tr>
<td>75</td>
<td>VIA</td>
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<td>60</td>
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<td>32</td>
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<td>VIA</td>
</tr>
<tr>
<td>19</td>
<td>VIA</td>
<td>VIA</td>
</tr>
</tbody>
</table>

**VRV T-Series Water-Cooled**

<table>
<thead>
<tr>
<th>Indoor Temperature (°F)</th>
<th>Silver Series (5 Ton)</th>
<th>Standard Range for Continuous Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>540</td>
<td>3280</td>
</tr>
<tr>
<td>60</td>
<td>540</td>
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<td>90</td>
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<td>3280</td>
</tr>
<tr>
<td>100</td>
<td>540</td>
<td>3280</td>
</tr>
</tbody>
</table>

*Limited to 27° F (for the PC series)

Contact your local Daikin manufacturer’s representative or distributor for details.

**Refrigerant Piping Limitations**

<table>
<thead>
<tr>
<th>Piping Limitations</th>
<th>Liquid Line Max (ft)</th>
<th>Air-Cooled</th>
<th>Water-Cooled</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRV-IV Heat Pump</td>
<td>164 (295)¹</td>
<td>164 (295)¹</td>
<td>164 (295)¹</td>
</tr>
<tr>
<td>VRV IV/IX Heat Recovery</td>
<td>164 (295)¹</td>
<td>164 (295)¹</td>
<td>164 (295)¹</td>
</tr>
<tr>
<td>VRV AURORA™ Heat Pump</td>
<td>98</td>
<td>98</td>
<td>130</td>
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<tr>
<td>VRV IV-S 13 Ton</td>
<td>98</td>
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<tr>
<td>VRV IV-S 4 &amp; 5 Ton</td>
<td>98</td>
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<tr>
<td>VRV IV-W PC-Series</td>
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<tr>
<td>VRV IV-W T-Series</td>
<td>130</td>
<td>130</td>
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</tr>
</tbody>
</table>

¹ Setting adjustment on condensing unit required.
² Application rules apply. Refer to Installation Manual for further details.
³ Possible 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.

Conditions of VRV indoor unit connection capacity

<table>
<thead>
<tr>
<th>APPLICABLE VRV INDOOR UNITS</th>
<th>FXDQ, FXSQ, T, FXMQ, P, FXAQ</th>
<th>OTHER VRV/INDOOR UNIT MODELS</th>
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</thead>
<tbody>
<tr>
<td>Single outdoor units</td>
<td>200%</td>
<td>FXFQ07T, FXFQ09T</td>
</tr>
<tr>
<td>Double outdoor units</td>
<td>200%</td>
<td>FXSQ05T, FXZQ05T</td>
</tr>
<tr>
<td>Triple outdoor units</td>
<td>130%</td>
<td>FXFQ07T, FXFQ09T</td>
</tr>
</tbody>
</table>

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

Connection ratio = \[
\frac{\text{Total capacity index of the indoor units}}{\text{Total capacity index of the outdoor units}} \]

Connection ratio 50%–200%*
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

Inverter board cooled by refrigerant circuit
An inverter Printed Circuit Board (PCB) cooled with the liquid refrigerant circuit increases allows more airflow to the VRV IV cooling coil to increase efficiency and also minimizes any influence on the inverter board from ambient temperatures.

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

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

Stage 1
Stage 2
Stage 3

Priority

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.
With the VRV IV heat pump and heat recovery systems, the Daikin brand is one of the most extensive lines of heating and cooling systems in North America.
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.

» Extensive local inventory and short lead times.
» Typically, 98% of replacement parts can be shipped in approximately 48 hours.
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.

Outstanding 10-Year Parts and Compressor Warranties*

Outstanding commercial warranty* with 10-Year Replacement Compressor Warranty and 10-Year Parts Warranty as standard ensures our confidence in our new VRV IV.

* Complete warranty details available from your local Daikin manufacturer’s representative or distributor or online at www.daikincomfort.com or www.daikinac.com.
Daikin VRV

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

See how you can profit from Daikin’s flexible and efficient product range.
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
**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 return†  
» Engineered with Daikin vapor injection compressor for optimized part load efficiencies

**VRV 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.

**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.

**VRV IV S-series**  
**Air-Cooled**  
VRV IV-S systems are equipped with built-in intelligence which provide independent zoning control with maximum flexibility and energy savings. With the ability to connect up to ten indoor units to one outdoor unit, the space-saving VRV IV-S system is ideal for most light commercial and residential applications.  
» Available in 3, 4 and 5 ton modules  
» Increase in efficiency up to 18 SEER & 10.5+ HSPF  
» Year round comfort and energy savings delivered by VRT technology  
» Broader diversity with ability to connect up to 9 indoor units  
» Space saving design with under 39” height. Over 25% smaller as compared to VRV III-S  
» Easier to install with over 39% weight reduction vs VRV III-S  
» Lower sound levels for comfort  
» Higher reliability with Daikin’s swing compressor  
» Dependable operation in extreme ambient conditions up to 122°F  
» Added safety and peace of mind with optional auto changeover to auxiliary heat  
» Backed by a best in class 10-Year Parts Limited Warranty*

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

1 Multi module heat recovery systems only for continuous heating during defrost  
† Conditions/rules apply. Refer to Installation and Engineering Manual for further details.  
* Complete warranty details available from your local Daikin manufacturer’s representative or distributor or online at www.daikincomfort.com or www.daikinac.com.  
** Varies based on condensing unit model selected
<table>
<thead>
<tr>
<th>TYPE</th>
<th>MODEL</th>
<th>FEATURES</th>
<th>PRODUCT NAME</th>
<th>CAPACITY (TONS)</th>
</tr>
</thead>
</table>
| Air-Cooled | VRV IV X Heat Recovery | » Industry’s first 3-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  
» 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. | REXQ_X | 3 4 5 6 8 10 12 14 16 18 20 21 22 24 26 28 30 32 34 36 38 |
| Air-Cooled | VRV IV Heat Pump & Heat Recovery | » Variable refrigerant flow system Industry’s first air-cooled system that delivers heating down to -22°F (-30°C) as standard  
» Hot gas base pan circuit allows installation without an additional drain pan heater  
» Designed to provide continuous heating during defrost and oil return  
» Engineered with Daikin vapor injection compressor for optimized part load efficiencies  
*Multi module heat recovery systems only for continuous heating during defrost. | RXQ_T | 3 4 5 6 8 10 12 14 16 18 20 21 22 24 26 28 30 32 34 36 38 |
| Air-Cooled | VRV IV Heat Recovery | » Fully integrated solution with heat recovery for high efficiencies with EER 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 such as Variable Refrigerant temperature and all inverter compressors  
» Widest range of Branch Selector boxes on the market | REYQ_T | 3 4 5 6 8 10 12 14 16 18 20 21 22 24 26 28 30 32 34 36 38 |
| Air-Cooled | VRV IV Heat 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 | RXQ_T | 3 4 5 6 8 10 12 14 16 18 20 21 22 24 26 28 30 32 34 36 38 |
| Air-Cooled | VRV IV-S Heat Pump | » Single phase technology  
» Space saving solution without compromising on efficiency  
» For residential and light commercial applications | RXTQ_TA | 3 4 5 6 8 10 12 14 16 18 20 21 22 24 26 28 30 32 34 36 38 |
| Water-Cooled | VRV T Heat Recovery/Water-Cooled Condensing Unit Heat Pump | » Ideal for high rise buildings, using water as heat source  
» Enables use of geothermal energy as a renewable energy source  
» Flexible System design with increased diversity up to 150%***  
» Triple-stack capable to deliver up to 36 tons in just under 11.5 feet ceiling height thanks to the compact design  
» Engineered with heat rejection cancellation technology*** to eliminate mechanical room conditioning requirements  
» 2-9V variable water flow control logic*** as standard to increase waterside system operational efficiencies | RWEQ_T | 2 4 5 6 8 10 12 14 16 18 20 21 22 24 26 28 30 32 34 36 38 |

** 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

<table>
<thead>
<tr>
<th>TYPE</th>
<th>MODEL</th>
<th>FEATURES</th>
<th>PRODUCT NAME</th>
</tr>
</thead>
</table>
| Ducted | HSP DC Concealed Ducted Unit | » Energy efficient due to the DC fan motor  
» Ideal to use together with the optional Daikin Zoning Kit, D2K  
» 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 |
| Ducted | 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 7-3/4”  
» 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 21-1/4” included as standard | FXIQ_TAVJU |
| Multi-Position Air Handling Unit | VISTATM 2x2 Cassette | » 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 | FXMQ_MVJU |
| Ducted | HSP High Capacity Concealed Ducted Unit | » Design flexibility with a capacity range up to 86 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 | FXNO_MVJU9 |
| Concealed Floor-Standing Unit | Round Flow Sensing Cassette | » True 380° 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 low unit height of under 8”  
» Fitted with a washable long-life filter  
» Space-saving unit can be freestanding or wall-mounted | FXFQ_TVJU |
| Duct-Free | 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 | FXQJ_PVJU |
| Duct-Free | VISTATM 2x2 Cassette for VRF 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 7-3/4” in height and a width of 18-1/2” making it possible to use this style of indoor unit in the tightest of spaces  
» The unit is equipped with both horizontal and vertical louvers to optimize the airflow and throw to suite your room design  
» The indoor unit can be set to 5 predetermined fan speeds which allows for optimum and comfortable airflow  
» Factory installed condensate pump with a lift capacity of up to 33-7/16” (measured from the bottom of the unit) | FXEQ_PVJU |
| Duct-Free | 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 |
| Duct-Free | Wall-Mounted Unit | » Auto-saving 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 |
| Duct-Free | 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 |
<table>
<thead>
<tr>
<th>MBH</th>
<th>5.8</th>
<th>7.5</th>
<th>9.5</th>
<th>12</th>
<th>15</th>
<th>18</th>
<th>24</th>
<th>30</th>
<th>36</th>
<th>42</th>
<th>48</th>
<th>54</th>
<th>60</th>
<th>72</th>
<th>96</th>
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<tr>
<td>TON</td>
<td>0.5</td>
<td>0.6</td>
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</tbody>
</table>

**Features**
- Low sound level
- Ideal for installation beneath a window
- Auto-swing mechanism ensures efficient air distribution via louvers
- Very low unit height of under 8"
- Design flexibility with a capacity range up to 96 MBH
- Ideal replacement for fan coils, geothermal heat pumps or traditional splits systems
- Slim height, at only 7-7⁄8"
- Integral condensate pump with more than 25" of lift
- Auto fan speed control optimizes energy use, occupant comfort, and sound levels
- Powerful static pressure up to 0.6" In. Wg
- Flexible ductwork design with ESP capabilities up to 0.8" In. Wg
- Energy efficient due to the DC fan motor
- Space-saving unit can be freestanding or wall-mounted
- Remote-control options available
- Fitted with a washable long-life filter
- Unit requires minimal installation space
- Compact and stylish design
- Drain pipe can be easily hidden from sight
- Horizontal louvers and front panel can be easily removed for cleaning
- Long-life filter is standard
- Smooth flat louver design makes cleaning simple
- Innovative stream fan technology keeps sound pressure levels low
- Wide air discharge outlet distributes a comfortable airflow throughout the entire space
- Individual air louver control
- Stylish unit blends easily with any interior
- Fitted with a washable long-life filter
- Requires minimal installation space
- Ideal for Hotels, Schools, Retail
- Low profile design of less than 19" high to reduce required installation space
- Improved ductwork and filtration flexibility with high CFM and ESP capabilities
- Wide line up of electric heat (field installed) options from 3kW to 20kW
- ECM fan motor provides energy efficiency
- Upflow and horizontal right installation is permitted
- Installation flexibility with a low profile, compact design at less than 12" in height
- Enhanced indoor air quality and LEED ready with MERV 13 filter options
- Ideal to use together with the optional Daikin Zoning Kit, DZK
- The unit is equipped with both horizontal and vertical louvers to optimize the airflow and throw to suite your room design
- Factory installed condensate pump with a lift capacity of up to 33-7⁄16" (measured from the bottom of the unit)
- The indoor unit can be set to 5 predetermined fan speeds which allows for optimum and comfortable airflow
- Very flexible with 18 different possible airflow patterns
- Increased indoor air quality with high efficiency filter options and ventilation connection kit
- Optional self-cleaning filter panel to further increase efficiency and reduce maintenance
- Energy efficient with DC fan motor and auto-logic that adjusts fan speed
- True 360° Airflow and three room sensors enables optimized occupant comfort
- Optional space and presence sensor accessory enhances energy efficiency and occupant comfort
- Easy-to-clean grille, washable long-life filter
- Space-saving depth of units requires only 11.75" of ceiling space
- Features a low profile decoration panel design measuring only 5/16" deep
- Fits in a standard 2' x 2' ceiling grid with no overlap of adjacent tiles
## 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.

<table>
<thead>
<tr>
<th>NUMBER OF BRANCHES / MAXIMUM TOTAL CAPACITY INDEX (KBTU/H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSQ36TVJ BSQ60TVJ BSQ96TVJ BSQ144TVJ BSQ216TVJ BSQ290TVJ BSQ360TVJ BSQ432TVJ</td>
</tr>
<tr>
<td>1/36 1/60 1/96 4/144 6/216 8/290 10/290 12/290</td>
</tr>
</tbody>
</table>

### REFINET

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

### VRV IV Heat Pump / VRV AURORA™ Heat Pump

<table>
<thead>
<tr>
<th>OPTIONAL ACCESSORIES</th>
<th>RXQ120T RXQ144T RXQ168T RXQ216T RXQ240T RXQ288T RXQ336T RXQ384T RXQ432T RXQ480T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distributed piping</td>
<td>REFINET Header KHRP26M22H (max. 4 branch) KHRP26M33H (max. 8 branch)</td>
</tr>
<tr>
<td>REFINET joint</td>
<td>KHRP25A22T KHRP25A33T KHRP25M22H (max. 4 branch) KHRP25M33H (max. 8 branch)</td>
</tr>
<tr>
<td>Outdoor unit multi connection piping kit</td>
<td>— BHFP25P100U BHFP25P151U</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>OPTIONAL ACCESSORIES</th>
<th>REYQ72T REYQ96T</th>
<th>RELQ72T RELQ96T</th>
<th>REYQ120T REYQ144T REYQ168T</th>
<th>RELQ120T</th>
<th>REYQ192T REYQ216T REYQ240T REYQ288T REYQ336T</th>
<th>RELQ192T RELQ240T</th>
<th>REYQ360T REYQ384T REYQ408T REYQ432T REYQ456T</th>
<th>RELQ360T RELQ384T RELQ408T RELQ432T RELQ456T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distributed piping</td>
<td>REFINET header</td>
<td>KHRP25M33H (max. 8 branch) KHRP25M33H (max. 8 branch)</td>
<td>KHRP25M22H (max. 8 branch) KHRP25M22H (max. 8 branch)</td>
<td>KHRP25M33H (max. 8 branch) KHRP25M33H (max. 8 branch)</td>
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</tr>
<tr>
<td>REFINET joint</td>
<td>KHRP25A22T T9  KHRP25A33T T9 KHRP25M22H (max. 8 branch) KHRP25M22H (max. 8 branch)</td>
<td>KHRP25A22T T9  KHRP25A33T T9 KHRP25M22H (max. 8 branch) KHRP25M22H (max. 8 branch)</td>
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</tr>
<tr>
<td>Outdoor unit multi connection piping kit</td>
<td>— BHFP26P100U BHFP26P151U</td>
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</table>

www.daikincomfort.com
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).

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.
**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.

<table>
<thead>
<tr>
<th>PROJECT REQUIREMENTS</th>
<th>DKN Cloud Wi-Fi Adaptor</th>
<th>Navigation™ Remote Controller</th>
<th>Simplified Remote Controller</th>
<th>Intelligent Touch Controller™</th>
<th>Intelligent Touch Manager™</th>
<th>BACnet® Interface</th>
<th>LonWorks® Interface</th>
<th>Modbus® Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual zone control</td>
<td>■</td>
<td>■</td>
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<td>■</td>
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<tr>
<td>Independent cool and heat setpoints</td>
<td>■</td>
<td>■</td>
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<tr>
<td>Individual zone control with weekly programmable scheduling</td>
<td>■</td>
<td>■</td>
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<td>■</td>
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<tr>
<td>Basic central point on/off control of all air handling units</td>
<td>■</td>
<td>■</td>
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<tr>
<td>Advanced multi-zone control of small to medium size projects</td>
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<td>Advanced multi-zone control of large commercial projects</td>
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<tr>
<td>Advanced multi-zone control with scheduling logic and calendar</td>
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<tr>
<td>Automatic cooling/heating changeover for heat pump systems</td>
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<tr>
<td>Single input batch shutdown of all connected air handlers</td>
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<tr>
<td>Web browser control and monitoring via Intranet and Internet</td>
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<tr>
<td>E-mail notification of system alarms and equipment malfunctions</td>
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<tr>
<td>Multiple tenant power billing for shared condenser applications</td>
<td>■</td>
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<tr>
<td>Start/stop control of ancillary building systems*</td>
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<tr>
<td>Daikin VRV integration with BACnet based automation systems</td>
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<td>Wi-Fi option remote access through smartphone app</td>
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</table>

*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 Navigation™ Remote Controller will provide as much or as little control as the installed VRV system requires.
**Network solutions**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>iTC™</th>
<th>iTM™</th>
<th>LonWorks®</th>
<th>BACnet®</th>
<th>ModBus®</th>
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<td>Integration</td>
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<td>Other</td>
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<td>Maximum number of indoor unit groups</td>
<td>2 x 64</td>
<td>8 x 64</td>
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</table>

### Powerful Service Tool with Indoor and Outdoor Unit Operation Data Points

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

*BMS programming needed
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.

<table>
<thead>
<tr>
<th>OUTSIDE AIR PROCESSING UNIT, FXMQ_MFVJU</th>
<th>ENERGY RECOVERY VENTILATOR, VAM-GVJU</th>
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<tbody>
<tr>
<td>Refrigerant Piping Connectable</td>
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<td>VRV Control Wiring Connectable</td>
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<td>High Efficiency Filter (MERV 8 and MERV 13)</td>
<td>Option</td>
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<tr>
<td>Ventilation System</td>
<td>Air supply</td>
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<tr>
<td>Power Supply</td>
<td>V/ph/Hz</td>
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<tr>
<td>Airflow Rate</td>
<td>CFM</td>
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</table>

Daikin’s air treatment systems — creating a better air quality environment.
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.
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<thead>
<tr>
<th>INDOOR UNIT TYPE</th>
<th>MBH</th>
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<th>7.5</th>
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<td>FXSQ_TAVUJU</td>
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<td>Multi-Position Air Handling Unit (Upflow, Downflow, Horizontal Left and Horizontal Right)</td>
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<td>Floor-Standing Unit</td>
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- Comfort cooling/heating
- Condensate pump standard
- Outside air connection possible
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. It has upflow, downflow, horizontal left and horizontal right possibilities.

**FXDO_MVJU**
LSP Slim Concealed Ducted Unit
Slim duct built-in concealed unit with low profile and low sound level.

**FXNQ_MVJU9**
Concealed Floor-Standing Unit
Floor-standing unit that can easily be installed along a perimeter wall — or concealed

**FXLQ_MVJU9**
Floor-Standing Unit
Great way to save space. The floor-standing units can easily be installed along a perimeter wall.
**FXFQ_TVJU**
Round Flow Sensing Cassette, Ceiling Mounted

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

**FXQZ_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.
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

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.

Applications
» Offices
» Hotels
» Schools
» Retail
## FXMQ_PBVJU SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>0.6 Ton</th>
<th>0.75 Ton</th>
<th>1.0 Ton</th>
<th>1.25 Ton</th>
<th>1.5 Ton</th>
<th>2.0 Ton</th>
<th>2.5 Ton</th>
<th>3.0 Ton</th>
<th>4.0 Ton</th>
<th>4.5 Ton</th>
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<tbody>
<tr>
<td>Power Supply</td>
<td>V/ph/Hz</td>
<td>208-230/1/60</td>
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<tr>
<td>Rated Cooling Capacity</td>
<td>BTU/h</td>
<td>7,500</td>
<td>9,500</td>
<td>12,000</td>
<td>15,000</td>
<td>18,000</td>
<td>24,000</td>
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<td>48,000</td>
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<tr>
<td>Rated Heating Capacity</td>
<td>BTU/h</td>
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<td>10,500</td>
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<td>17,000</td>
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<td>27,000</td>
<td>34,000</td>
<td>40,000</td>
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<td>CFM</td>
<td>317/264/229</td>
<td>450/410/388</td>
<td>560/530/500</td>
<td>635/582/529</td>
<td>688/618/565</td>
<td>1,094/953/812</td>
<td>1,130/953/812</td>
<td>1,377/1,165/988</td>
<td>1,624/1,377/1,130</td>
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<tr>
<td>Height</td>
<td>in.</td>
<td>11-3/16</td>
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<tr>
<td>Width</td>
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<td>21-5/8</td>
<td>27-9/16</td>
<td>39-3/8</td>
<td>55-1/8</td>
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<tr>
<td>Weight</td>
<td>lbs.</td>
<td>55 (25)</td>
<td>62 (28)</td>
<td>80 (36)</td>
<td>102 (46)</td>
<td>104 (47)</td>
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<tr>
<td>Condensate Pump Lift</td>
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<tr>
<td>Sound Pressure</td>
<td>(H/M/L) dB(A)</td>
<td>33/31/29</td>
<td>39/37/35</td>
<td>40/38/37</td>
<td>41/39/37</td>
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<td>43/41/39</td>
<td>44/42/40</td>
<td>46/45/43</td>
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<tr>
<td>Condensate Pipe Connection</td>
<td>in. O.D.</td>
<td>1-1/4</td>
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<tr>
<td>Pipe Connections</td>
<td>Gas</td>
<td>in.</td>
<td>1/2 (Flare)</td>
<td>5/8 (Flare)</td>
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<td></td>
<td>Liquid</td>
<td>in.</td>
<td>1/4 (Flare)</td>
<td>3/8 (Flare)</td>
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<td>Refrigerant</td>
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<td>R-410A</td>
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<td>Refrigerant Control</td>
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<td>Electronic Expansion Valve</td>
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<tr>
<td>Maximum Overcurrent Protective Device</td>
<td>A</td>
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<td>15</td>
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<td>Minimum Circuit Amps</td>
<td>A</td>
<td>0.6</td>
<td>1.4</td>
<td>1.5</td>
<td>1.8</td>
<td>1.8</td>
<td>2.8</td>
<td>2.9</td>
<td>3.4</td>
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<td>Protection Devices</td>
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<td>Fuse and Fan Driver Overload Protector</td>
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<tr>
<td>External Finish</td>
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<td>Galvanized Steel Plate</td>
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**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:

<table>
<thead>
<tr>
<th>Kit Model</th>
<th>Indoor Unit</th>
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<tbody>
<tr>
<td>DACA-FXMQ12131K</td>
<td>FXMQ07-09PBVJU</td>
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<tr>
<td>DACA-FXMQ14131K</td>
<td>FXMQ12PBVJU</td>
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<tr>
<td>DACA-FXMQ30131K</td>
<td>FXMQ15-24PBVJU</td>
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<tr>
<td>DACA-FXMQ48131K</td>
<td>FXMQ30-54PBVJU</td>
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**ENTHALPY ECONOMIZER (FIELD APPLIED ACCESSORY)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Indoor Unit</th>
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<tbody>
<tr>
<td>ECONMQ12P-8-1K (MERV 8 Filter)</td>
<td>FXMQ07-09PBVJU</td>
</tr>
<tr>
<td>ECONMQ12P-13-1K (MERV 13 Filter)</td>
<td>FXMQ15-24PBVJU</td>
</tr>
<tr>
<td>ECONMQ30P-8-1K (MERV 8 Filter)</td>
<td>FXMQ30-54PBVJU</td>
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<tr>
<td>ECONMQ30P-13-1K (MERV 13 Filter)</td>
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</tr>
<tr>
<td>ECONMQ48P-8-1K (MERV 8 Filter)</td>
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<tr>
<td>ECONMQ48P-13-1K (MERV 13 Filter)</td>
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</table>

**FXMQ_PBVJU ACCESSORIES**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>FXMQ07PBVJU</th>
<th>FXMQ09PBVJU</th>
<th>FXMQ12PBVJU</th>
<th>FXMQ15PBVJU</th>
<th>FXMQ18PBVJU</th>
<th>FXMQ24PBVJU</th>
<th>FXMQ30PBVJU</th>
<th>FXMQ36PBVJU</th>
<th>FXMQ48PBVJU</th>
<th>FXMQ54PBVJU</th>
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<tbody>
<tr>
<td>Navigation™ Remote Controller*</td>
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<td>BRC1E73</td>
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<tr>
<td>DKN Cloud Wi-Fi Adaptor</td>
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<td>AZA9WSQDKA</td>
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<tr>
<td>Simplified Wired Remote Controller*</td>
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<td>BRC2A71</td>
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<tr>
<td>Wireless Remote Controller</td>
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<tr>
<td>Remote Sensor Kit</td>
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<tr>
<td>Wiring Adaptor PCB (interface with aux/primary heater, humidifier, OA damper/fan)</td>
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<td>KRP1C74</td>
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<tr>
<td>Group Control Adaptor PCB (connects to external BMS)</td>
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<td>KRP4A71</td>
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</tbody>
</table>

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

**FXMQ_PBVJU INSTALLATION SPACE**

- Air Outlet
- Air Inlet
- Ceiling
- Floor Surface
- Ceiling
- Floor Surface

- a = 12” or more if one inspection hatch (17-3/4” x 17-3/4”) on the control box side and a space of 11-13/16” or more under the unit.
- a = 1” or more if an inspection hatch the size of the indoor unit plus an additional 12” or more on the control box side is installed.

---

**FXMQ_PBVJU INSTALLATION SPACE**

- Air Outlet
- Air Inlet
- Ceiling
- Floor Surface
- Ceiling
- Floor Surface

- a = 12” or more if one inspection hatch (17-3/4” x 17-3/4”) on the control box side and a space of 11-13/16” or more under the unit.
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**FXMQ_PBVJU INSTALLATION SPACE**

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- Air Inlet
- Ceiling
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- Ceiling
- Floor Surface

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**FXMQ_PBVJU INSTALLATION SPACE**

- Air Outlet
- Air Inlet
- Ceiling
- Floor Surface
- Ceiling
- Floor Surface

- a = 12” or more if one inspection hatch (17-3/4” x 17-3/4”) on the control box side and a space of 11-13/16” or more under the unit.
- a = 1” or more if an inspection hatch the size of the indoor unit plus an additional 12” or more on the control box side is installed.

---

**FXMQ_PBVJU INSTALLATION SPACE**

- Air Outlet
- Air Inlet
- Ceiling
- Floor Surface
- Ceiling
- Floor Surface

- a = 12” or more if one inspection hatch (17-3/4” x 17-3/4”) on the control box side and a space of 11-13/16” or more under the unit.
- a = 1” or more if an inspection hatch the size of the indoor unit plus an additional 12” or more on the control box side is installed.

---

**FXMQ_PBVJU INSTALLATION SPACE**

- Air Outlet
- Air Inlet
- Ceiling
- Floor Surface
- Ceiling
- Floor Surface

- a = 12” or more if one inspection hatch (17-3/4” x 17-3/4”) on the control box side and a space of 11-13/16” or more under the unit.
- a = 1” or more if an inspection hatch the size of the indoor unit plus an additional 12” or more on the control box side is installed.

---

**FXMQ_PBVJU INSTALLATION SPACE**

- Air Outlet
- Air Inlet
- Ceiling
- Floor Surface
- Ceiling
- Floor Surface

- a = 12” or more if one inspection hatch (17-3/4” x 17-3/4”) on the control box side and a space of 11-13/16” or more under the unit.
- a = 1” or more if an inspection hatch the size of the indoor unit plus an additional 12” or more on the control box side is installed.

---

**FXMQ_PBVJU INSTALLATION SPACE**

- Air Outlet
- Air Inlet
- Ceiling
- Floor Surface
- Ceiling
- Floor Surface

- a = 12” or more if one inspection hatch (17-3/4” x 17-3/4”) on the control box side and a space of 11-13/16” or more under the unit.
- a = 1” or more if an inspection hatch the size of the indoor unit plus an additional 12” or more on the control box side is installed.

---

**FXMQ_PBVJU INSTALLATION SPACE**

- Air Outlet
- Air Inlet
- Ceiling
- Floor Surface
- Ceiling
- Floor Surface

- a = 12” or more if one inspection hatch (17-3/4” x 17-3/4”) on the control box side and a space of 11-13/16” or more under the unit.
- a = 1” or more if an inspection hatch the size of the indoor unit plus an additional 12” or more on the control box side is installed.
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 adjusting airflow at commissioning based on external 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

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.

Applications
» Offices
» Hotel Rooms
» Multi-family residences
» Single-family residences
» Schools
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Capacity Index</th>
<th>0.5 TON</th>
<th>0.6 TON</th>
<th>0.75 TON</th>
<th>1.0 TON</th>
<th>1.25 TON</th>
<th>1.5 TON</th>
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<tbody>
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<td>FXSQ06TAVJU</td>
<td>FXSQ07TAVJU</td>
<td>FXSQ10TAVJU</td>
<td>FXSQ12TAVJU</td>
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<tr>
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<td>7,500 (2.2)</td>
<td>9,500 (2.8)</td>
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<td>Condensate Pump Lift</td>
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<td>Sound Pressure Level (H/M/L speed)</td>
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<td>Gas in.</td>
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<td>Maximum Overcurrent Protection Device</td>
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<td>Minimum Circuit Ampacity</td>
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### SPECIFICATIONS

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<td>FXSQ54TAVJU</td>
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<td>V/ph/Hz</td>
<td>208/230VAC, 60Hz, 1 phase</td>
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<tr>
<td>Nominal Cooling Capacity*1</td>
<td>Btu/h (kW)</td>
<td>24,000 (7.1)</td>
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<td>36,000 (11.2)</td>
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<td>Weight</td>
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<td>dB(A)</td>
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<td>Gas in.</td>
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<td>Condensate Drain in.</td>
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<td>Refrigerant Control</td>
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<td>Maximum Overcurrent Protection Device</td>
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### Note:

* 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.
* 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.
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

Applications
» Hotel rooms
» Multi-family residences
» Single family residences
» School dormitories

BRC1E73 (option)
AZAI6WSCDKA (option)
BRC2A71 (option)
BRC4C82 (option)
### FXDQ_MVJU SPECIFICATIONS

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<td>27,000</td>
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<td>18,000</td>
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<td>Airflow Rate (H/L)</td>
<td>CFM</td>
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<td>440/350</td>
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<td>35-7/16</td>
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<td>Sound Pressure (H/L) dB(A)</td>
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<td>3/8 (Flare)</td>
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<td>Maximum Overcurrent Protective Device</td>
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<td>Minimum Circuit Amps</td>
<td>A</td>
<td>0.9</td>
<td>1.3</td>
<td>1.4</td>
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<td>Protection Devices</td>
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<td>External Finish</td>
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<td>Standard Filter Type</td>
<td>Removable, Washable, Mildew Proof</td>
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<td>External Static Pressure (H/L) in. Wg</td>
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### FXDQ_MVJU ACCESSORIES

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<th>FXDQ18MVJU</th>
<th>FXDQ24MVJU</th>
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<tbody>
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<td>AZAIBVSW3DKA</td>
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<td>AZAIBVSW3DKA</td>
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<td>Wireless Remote Controller</td>
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<td>KRPC75</td>
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<td>Group Control Adaptor PCB (connects to external BMS)</td>
<td>KRP4A74</td>
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</table>

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

### FXDQ_MVJU INSTALLATION SPACE

Choose an installation site that ensures both optimum air distribution and sufficient clearance for maintenance. The return air inlet can be easily changed from rear to bottom using the same chamber lid.

![Diagram of installation space](image-url)
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

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<th>ELECTRICAL HEATER CAPACITY</th>
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<tbody>
<tr>
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<td>FXTQ24TAVJUA(D)</td>
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<td>FXTQ30TAVJUA(D)</td>
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<td>FXTQ36TAVJUA(D)</td>
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<td>FXTQ42TAVJUA(D)</td>
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<td>FXTQ48TAVJUA(D)</td>
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<td>FXTQ60TAVJUA(D)</td>
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### SPECIFICATIONS

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<tr>
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<td>V/ph/Hz</td>
<td>208/230VAC, 60Hz, 1 phase</td>
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<td>Fan</td>
<td>Type</td>
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<td>Motor Output</td>
<td>HP</td>
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<tr>
<td></td>
<td>Static Pressure*3</td>
<td>in. Wg</td>
<td>0.23” / 0.9”</td>
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<tr>
<td></td>
<td>Drive Type</td>
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<tr>
<td>Height</td>
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<td>45</td>
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<td>Width</td>
<td>in.</td>
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<tr>
<td>Depth</td>
<td>in.</td>
<td>21</td>
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<tr>
<td>Weight (net) (TAVJUA/TAVJUD) lbs.</td>
<td>113/116</td>
<td>114/118</td>
<td>185/188</td>
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<tr>
<td>Sound Pressure Level (H speed) dB(A)</td>
<td>52</td>
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<tr>
<td>Pipe Connections</td>
<td>Liquid</td>
<td>in.</td>
<td>3/8 (Braze)</td>
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<td></td>
<td>Gas</td>
<td>in.</td>
<td>5/8 (Braze)</td>
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<td></td>
<td>Condensate Drain</td>
<td>in.</td>
<td>3/4 (fpt)</td>
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<tr>
<td>Refrigerant Control</td>
<td>Type</td>
<td>Electronic Expansion Valve</td>
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<tr>
<td>Maximum Overcurrent Protective Device</td>
<td>A</td>
<td>15</td>
<td></td>
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<td></td>
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<tr>
<td>Minimum Circuit Amps</td>
<td>A</td>
<td>4.9</td>
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</table>

---

* 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.

* 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.

* External static pressures are indicated as rated / maximum allowable range.
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

Applications

» Hotel/conference centers
» Schools
» Retail/shopping centers
» Large open-plan offices
» Churches

Outside Air Integration Possible
**FXMQ_MVJU SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>6 TON FXMQ72MVJU</th>
<th>8 TON FXMQ96MVJU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>V/ph/Hz</td>
<td>208-230/1/60</td>
</tr>
<tr>
<td>Rated Cooling Capacity</td>
<td>BTU/h</td>
<td>72,000</td>
</tr>
<tr>
<td>Rated Heating Capacity</td>
<td>BTU/h</td>
<td>81,000</td>
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<tr>
<td>Airflow Rate (H/L)</td>
<td>CFM</td>
<td>2,047/1,764</td>
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<tr>
<td>Weight</td>
<td>lbs.</td>
<td>380</td>
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<td>Height</td>
<td>in.</td>
<td>18-1/8</td>
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<tr>
<td>Width</td>
<td>in.</td>
<td>54-3/8</td>
</tr>
<tr>
<td>Depth</td>
<td>in.</td>
<td>43-5/16</td>
</tr>
<tr>
<td>Sound Pressure (H/L)</td>
<td>dB(A)</td>
<td>48/45</td>
</tr>
<tr>
<td>Condensate Pipe Connection</td>
<td>in. O.D.</td>
<td>1</td>
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<tr>
<td>Pipe Connections</td>
<td>Gas</td>
<td>3/4 (Flare)</td>
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<td></td>
<td>Liquid</td>
<td>3/8 (Flare)</td>
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<td>Refrigerant</td>
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<td>R-410A</td>
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<td>Refrigerant Control</td>
<td></td>
<td>Electronic Expansion Valve</td>
</tr>
<tr>
<td>Maximum Overcurrent Protective Device</td>
<td>A</td>
<td>15</td>
</tr>
<tr>
<td>Minimum Circuit Amps</td>
<td>A</td>
<td>9.5</td>
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<tr>
<td>Protection Devices</td>
<td></td>
<td>Fuse and Fan Motor Thermal Protector</td>
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<tr>
<td>External Finish</td>
<td></td>
<td>Galvanized Steel Plate</td>
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<tr>
<td>External Static Pressure (Nominal/Maximum)</td>
<td>in. Wg</td>
<td>0.38/0.95</td>
</tr>
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</table>

**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.

**FXMQ_MVJU INSTALLATION SPACE**

- **a** = 12” or more if one inspection hatch (17-3/4” x 17-3/4”) on the control box side and a space of 11 13/16” or more under the unit.
- **a** = 1” or more if an inspection hatch the size of the indoor unit plus an additional 12” or more on the control box side is installed.

**FXMQ_MVJU ACCESSORIES**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>FXMQ72MVJU</th>
<th>FXMQ96MVJU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navigation™ Remote Controller</td>
<td>BRC1E73</td>
<td>BRC1E73</td>
</tr>
<tr>
<td>DKN Cloud Wi-Fi Adaptor</td>
<td>AZA6W52OKA</td>
<td>AZA6W52OKA</td>
</tr>
<tr>
<td>Simplified Wired Remote Controller</td>
<td>BRC2A71</td>
<td>BRC2A71</td>
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<tr>
<td>Wireless Remote Controller</td>
<td>BRC4C82</td>
<td>BRC4C82</td>
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<tr>
<td>Remote Sensor Kit</td>
<td>KRCS01-1B</td>
<td>KRCS01-1B</td>
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<tr>
<td>Wiring Adaptor PCB (interface with aux/primary heater, humidifier, OA damper/fan)</td>
<td>KRP1C74</td>
<td>KRP1C74</td>
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<tr>
<td>Group Control Adaptor PCB (connects to external BMS)</td>
<td>KRP4A71</td>
<td>KRP4A71</td>
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<tr>
<td>High Efficiency Filter Kit (MERV 13)</td>
<td>DACA-MQ96M-13-1K</td>
<td>DACA-MQ96M-13-1K</td>
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<tr>
<td>High Efficiency Filter Kit (MERV 8)</td>
<td>DACA-MQ96M-8-1K</td>
<td>DACA-MQ96M-8-1K</td>
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</tbody>
</table>

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

Applications

» Multi-family residences
» Single-family residences
» Churches
» Historic buildings
» Schools
» Offices

Outside Air Integration Possible

Filter Included

FXNQ_MVJU9
Concealed Floor-Standing Unit

www.daikincomfort.com
### FXNQ_MVJU9 ACCESSORIES

<table>
<thead>
<tr>
<th>Model Name</th>
<th>FXNQ07MVJU9</th>
<th>FXNQ09MVJU9</th>
<th>FXNQ12MVJU9</th>
<th>FXNQ18MVJU9</th>
<th>FXNQ24MVJU9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navigation™ Remote Controller</td>
<td>BRC1E73</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>DKN Cloud Wi-Fi Adaptor</td>
<td>AZA6WS050KA</td>
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</tr>
<tr>
<td>Simplified Wired Remote Controller</td>
<td>BRC2A71</td>
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</tr>
<tr>
<td>Wireless Remote Controller</td>
<td>BRC4C82</td>
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<tr>
<td>Remote Sensor Kit</td>
<td>KRC3G1-19</td>
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<tr>
<td>Wiring Adaptor PCB (interface with aux/primary heater, humidifier, OA damper/fan)</td>
<td>KRP1C74</td>
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<tr>
<td>Group Control Adaptor PCB (connects to external BMS)</td>
<td>KRP6A71</td>
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<tr>
<td>Condensate Pump</td>
<td>DACA-CF3-1</td>
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</table>

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

### FXNQ_MVJU9 INSTALLATION SPACE

**IMPORTANT**

Leave sufficient clearance for air inlet and maintenance.

**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.

### FXNQ_MVJU9 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>0.6 TON</th>
<th>0.75 TON</th>
<th>1 TON</th>
<th>1.5 TON</th>
<th>2 TON</th>
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<td>FXNQ09MVJU9</td>
<td>FXNQ12MVJU9</td>
<td>FXNQ18MVJU9</td>
<td>FXNQ24MVJU9</td>
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<tr>
<td>Power Supply V/ph/Hz</td>
<td>208-230/1/60</td>
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<tr>
<td>Rated Cooling Capacity BTU/h</td>
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<td>9,500</td>
<td>12,000</td>
<td>18,000</td>
<td>24,000</td>
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<td>Rated Heating Capacity BTU/h</td>
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<td>10,500</td>
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<td>20,000</td>
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<td>Airflow Rate (H/L) CFM</td>
<td>245/210</td>
<td>280/210</td>
<td>490/380</td>
<td>560/420</td>
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<td>60</td>
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<td>Height in.</td>
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<td>Width in.</td>
<td>36-5/8</td>
<td>42-1/8</td>
<td>53-1/8</td>
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<td>Depth in.</td>
<td>8-5/8</td>
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<td></td>
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<tr>
<td>Sound Pressure (H/L) dB(A)</td>
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<td>36/33</td>
<td>40/35</td>
<td>41/36</td>
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<td>Condensate Pipe Connection in. O.D.</td>
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<td>Pipe Connections</td>
<td>Gas</td>
<td>1/2</td>
<td>5/8</td>
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<td>Liquid</td>
<td>1/4</td>
<td>3/8</td>
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<td>Refrigerant</td>
<td>R-410A</td>
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<td>Refrigerant Control</td>
<td>Electronic Expansion Valve</td>
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<td>Maximum Overcurrent Protective Device</td>
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<td>Minimum Circuit Amps</td>
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<td>Protection Devices</td>
<td>Fuse and Fan Motor Thermal Protector</td>
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<tr>
<td>External Finish</td>
<td>Galvanized Steel Plate</td>
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<tr>
<td>Standard Filter Type</td>
<td>Resin Net (with Mold Resistant)</td>
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</table>

**Model Name**
- FXNQ07MVJU9
- FXNQ09MVJU9
- FXNQ12MVJU9
- FXNQ18MVJU9
- FXNQ24MVJU9

**Power Supply V/ph/Hz:** 208-230/1/60

**Rated Cooling Capacity BTU/h:** 7,500 to 24,000

**Rated Heating Capacity BTU/h:** 8,500 to 27,000

**Airflow Rate (H/L) CFM:** 245/210 to 560/420

**Weight lbs.:** 47 to 60

**Height in.:** 24

**Width in.:** 36-5/8 to 53-1/8

**Depth in.:** 8-5/8

**Sound Pressure (H/L) dB(A):** 35/32 to 41/36

**Condensate Pipe Connection in. O.D.:** 2 7/32

**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.

- **FXNQ_MVJU9 INSTALLATION SPACE**

**IMPORTANT**

Leave sufficient clearance for air inlet and maintenance.

**Model**
- FXNQ07MVJU9
- FXNQ09MVJU9
- FXNQ18MVJU9
- FXNQ07-09MVJU

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

**Nominal Conditions - 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.
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 occupant 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.

Applications

» Retail
» Schools
» Offices
» Restaurants

4-way flow vs. Round Flow

Round Flow Ceiling Mounted Cassette type offers 360° airflow with improved temperature distribution.
Air flow from the indoor unit is automatically adjusted to always maintain a comfortable environment — even when occupancy changes.

**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**

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

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

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

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.

Option FXFQ09-48TVJU

<table>
<thead>
<tr>
<th>Type of panel</th>
<th>Self-Cleaning Filter Panel</th>
<th>Standard Sensing Decoration Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-Cleaning Filter Panel</td>
<td>BYCQ125BGW1</td>
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</tr>
<tr>
<td>Connection pipe (for duct recovery)</td>
<td>KKHAP55A160</td>
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<tr>
<td>L-shape extension pipe</td>
<td>KKHAP55A160</td>
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<tr>
<td>Standard Sensing Decoration Panel</td>
<td>KKHAP55A160</td>
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</tr>
<tr>
<td>Sealing material for air discharge outlet</td>
<td>KDBH55K160F</td>
<td></td>
</tr>
<tr>
<td>Panel spacer</td>
<td>KDBP55H160FA</td>
<td></td>
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<tr>
<td>Fresh air intake kit Chamber type With T shape pipe</td>
<td>KDBP55H160FA</td>
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<tr>
<td>Replacement long life filter</td>
<td>KAFPS58160</td>
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<tr>
<td>Self-Cleaning Filter Panel replacement filter</td>
<td>KAFPS54A160</td>
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<tr>
<td>MERV 13 Filter Kit</td>
<td>-</td>
<td>DACA-FQP13-1K</td>
</tr>
</tbody>
</table>

Indoor unit

- At least 60” from any fixture
- 60” or more from a wall
- Lighting
- 80” or more
- 160” or more
- At least 70” from a floor

Obstacles

<table>
<thead>
<tr>
<th>MODEL NAME (FXFQ_TVJU)</th>
<th>A (IN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FXFQ09TVJU</td>
<td>10</td>
</tr>
<tr>
<td>FXFQ12TVJU</td>
<td>13/14</td>
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<tr>
<td>FXFQ15TVJU</td>
<td>11/3/4</td>
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<tr>
<td>FXFQ18TVJU</td>
<td>14-1/8</td>
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<tr>
<td>FXFQ24TVJU</td>
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<tr>
<td>FXFQ30TVJU</td>
<td></td>
</tr>
<tr>
<td>FXFQ36TVJU</td>
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<tr>
<td>FXFQ48TVJU</td>
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OUTDOOR / CONDENSING UNIT COMPATIBILITY

<table>
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<tr>
<th>Outdoor Condensing Unit</th>
<th>Self-Cleaning Filter Panel (BYCQ125BGW1)</th>
<th>Standard Sensing Decoration Panel (BYCQ125B-W1)</th>
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<tbody>
<tr>
<td>VRV IV-S W-Series</td>
<td>Yes</td>
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<td>VRV IV W-Series</td>
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<td>VRV III</td>
<td>No</td>
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<td>SkyAir</td>
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Specifications are subject to change without notice.

FXFQ_TVJU SPECIFICATIONS

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<th>1 TON</th>
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<td>FXFQ07TVJU</td>
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<td>FXFQ18TVJU</td>
<td>FXFQ24TVJU</td>
<td>FXFQ30TVJU</td>
<td>FXFQ36TVJU</td>
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<tr>
<td>Power Supply</td>
<td>(V/ph/Hz)</td>
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<td>10,500</td>
<td>13,500</td>
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<td>Sound Pressure (H/M/L)</td>
<td>dB(A)</td>
<td>38/28.5/27</td>
<td>31/29/27</td>
<td>35.5/32/28</td>
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<td>Condensate Pump Lift</td>
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<td>Condensate Pipe Connection</td>
<td>in. O.D.</td>
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<td>1-1/4</td>
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</tbody>
</table>

Note:
- Specifications are subject to change without notice.

---

FXFQ07TVJU WITH FXFQ09TVJU WITH:

- VRV IV-S W-Series
- VRV IV W-Series
- VRV III
- SkyAir

---

VRV Product Catalog
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

Flexible Airflow Pattern

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

Air from each louver can be set to exhaust in 5 different angles between 0 and 60 degrees, or set to auto-swing.

Applications

» Retail
» Schools
» Offices
» Restaurants
FXUQ_PVJU INSTALLATION SPACE

Automatic air-direction control

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

Applications

» Retail
» Schools
» Offices

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°-25°) or soiling of the ceiling (25°-60°), other than standard setting (0°-60°).
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>0.5 TON</th>
<th>0.6 TON</th>
<th>0.75 TON</th>
<th>1 TON</th>
<th>1.25 TON</th>
<th>1.5 TON</th>
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<tr>
<td>FXZQ05TAVJU</td>
<td>FXZQ07TAVJU</td>
<td>FXZQ09TAVJU</td>
<td>FXZQ12TAVJU</td>
<td>FXZQ15TAVJU</td>
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<td>Capacity Index</td>
<td>5.8</td>
<td>7.5</td>
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<td>15</td>
<td>18</td>
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<tr>
<td>Power Supply</td>
<td>V/ph/Hz</td>
<td>208/230VAC, 60Hz, 1 phase</td>
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<tr>
<td>Nominal Cooling Capacity*1</td>
<td>Btu/h (kW)</td>
<td>5,800 (1.7)</td>
<td>7,500 (2.2)</td>
<td>9,500 (2.8)</td>
<td>12,000 (3.5)</td>
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<td>Nominal Heating Capacity*2</td>
<td>Btu/h (kW)</td>
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<td>Fan Type</td>
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<td>Dimensions - Unit Body (H x W x D)</td>
<td>in. (mm)</td>
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<tr>
<td>Dimensions - Decoration Panel (H x W x D)</td>
<td>in. (mm)</td>
<td>1-13/16 x 24-7/16 x 24-7/16 (46x620x620)</td>
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<td>Weight (Net)</td>
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<td>40.4 (18.3)</td>
<td>42.6 (19.3)</td>
<td>47 (21.3)</td>
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<td>Condensate Pump Lift</td>
<td>in. (mm)</td>
<td>24-15/16 (630)</td>
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<tr>
<td>Sound Pressure Level (H/M/L speed)</td>
<td>dB(A)</td>
<td>32 / 29.5 / 25.5</td>
<td>33 / 30 / 29.5</td>
<td>33.5 / 30 / 26</td>
<td>37 / 32 / 28</td>
<td>43 / 40 / 33</td>
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<td>Refrigerant Control</td>
<td>Electronic Expansion Valve</td>
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<td></td>
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<tr>
<td>Maximum Overcurrent Protection Device</td>
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<tr>
<td>Minimum Circuit Ampacity</td>
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<td>BYFQ60C3W1W</td>
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<td>Decoration Panel – Silver/White</td>
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</table>

**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.

*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
  - **Navigation™ Remote Controller**: BRC1E73
  - DKN Cloud Wi-Fi Adaptor: AZAI6WSCDKA
  - Simplified Wired Remote Controller - White**: BRC2A71
  - Infrared Remote Controller - White**: BRC082A42W
  - Infrared Remote Controller - Silver**: BRC082A42S
  - 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**: BYFQ60B3W1
  - **Remote Sensor Kit**: KRCS01-4B
  - **Wiring Adaptor PCB (interface with aux heater, humidifier, OA damper/fan)**: KRC1C75
  - **Long-Life Replacement Filter**: KAFQ441BA60
  - **Sealing Member of Air Discharge Kit**: BDBHQ44C60
  - **Fresh Air Intake Kit**: BDBHQ44C60
  - **Condensate Pump Lift**: 24-15/16 (630)

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

**INDOOR UNITS**

---

**FXZQ_TAVJU-MVJU9 INSTALLATION SPACE**

*Leave 7-7/8" or more space on sides where the air outlet is closed.
Condensate Pump as Standard
Outside Air Integration Possible
Filter Included

FXEQ_PVJU
Ceiling-Mounted Cassette (Single Flow)

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 louver settings 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 On/Off control of an external auxiliary heat solution.

» For ease of service and maintenance activities, it is possible to access the main components of the unit by only removing the decoration panel.

Applications

» Hotel Rooms
» Offices
» Residential (Apartments, Condominiums, etc.)

www.daikincomfort.com
### FXEQ_PVJU SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>0.6 TON</th>
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</tbody>
</table>

**Power Supply**
- 1 phase 60Hz 208/230V

**Cooling capacity**
- *1,*3 Btu/h
  - FXEQ07PVJU: 7500
  - FXEQ09PVJU: 9500
  - FXEQ12PVJU: 12000
  - FXEQ15PVU: 15000
  - FXEQ18PVJU: 18000
  - FXEQ24PVU: 24000

**Heating capacity**
- *2,*3 Btu/h
  - FXEQ07PVJU: 8500
  - FXEQ09PVJU: 10500
  - FXEQ12PVU: 13500
  - FXEQ15PVU: 17000
  - FXEQ18PVU: 20000
  - FXEQ24PVU: 27000

**Electrical**
- Min. circuit amps (MCA) A
  - FXEQ07PVJU: 0.3
  - FXEQ09PVJU: 0.4
  - FXEQ12PVU: 0.4
  - FXEQ15PVU: 0.5
  - FXEQ18PVU: 0.5
  - FXEQ24PVU: 0.7

- Max. overcurrent protection (MOP) A
  - FXEQ07PVJU: 15
  - FXEQ09PVU: 15
  - FXEQ12PVU: 15
  - FXEQ15PVU: 15
  - FXEQ18PVU: 15
  - FXEQ24PVU: 15

**Casing/color**
- Galvanized steel plate

**Dimensions (H x W x D)**
- 7-3/8 x 18-3/8 x 33-1/16
- 7-3/8 x 18-3/8 x 48-13/16

**Type**
- Sirocco fan

**Fan**
- Airflow rate (Dry coil) CFM
  - 212/191/173/156/141
  - 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

**Sound pressure level**
- dBA
  - Cooling
    - 30/29/28/27/26
    - 32/31/30/29/28
    - 35/34/33/32/30
    - 38/37/33/31
    - 38/37/33/31
    - 43/41/39/37/35

**Weight**
- lbs.
  - 38
  - 40
  - 51

**Piping connections**
- Liquid
  - ø 3/8 (flare connection)
- Gas
  - ø 5/8 (flare connection)
- Drain
  - PVC26 (O.D. 1-1/32 x I.D. 13/16)

**Drain pump lift**
- in.
  - 25

**Refrigerant control**
- Electronic expansion valve

**Connectable outdoor unit**
- R-410A VRV Series

**Decoration panel** (required option)
- BYEP40AW1
- BYEP63AW1

**Air filter**
- Resin net (with mold resistant)

**Weight**
- lbs.
  - 17.6
  - 22

**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˚C WB), outdoor temperature: 95.0˚ FDB (35.˚C DB) equivalent ref. piping: 25ft. (7.6m) (Horizontal)
- *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)
- *3* Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

### FXEQ_PVJU ACCESSORIES

<table>
<thead>
<tr>
<th>Name of Option</th>
<th>Note</th>
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<tbody>
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<td>Decoration panel</td>
<td>BYEP40AW1</td>
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<td>BYEP63AW1</td>
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<tr>
<td>Wired remote controller</td>
<td>BRC1E73</td>
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<tr>
<td>Simplified remote controller</td>
<td>BRC2A71</td>
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<tr>
<td>Remote sensor</td>
<td>KRCS01-4B</td>
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<tr>
<td>Wiring adaptor printed circuit board</td>
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<td>KRPC75</td>
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<tr>
<td>Group control adaptor printed circuit board</td>
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<td>KRMA74</td>
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<tr>
<td>Adaptor mounting box</td>
<td>KRP1B101</td>
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</table>

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

### FXEQ_PVJU INSTALLATION SPACE

![Figure 1](image1)

![Figure 2](image2)

**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˚C WB), outdoor temperature: 95.0˚ FDB (35.˚C DB) equivalent ref. piping: 25ft. (7.6m) (Horizontal)
- *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)
- *3* Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
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

Applications

» Retail/shops
» Offices
» Restaurants

Optional Condensate Pump

Filter Included

Quiet Stream Fan (side view)
Uses the quiet stream fan and many more advanced technologies.

Sound absorption member

Turbulent flow is produced

Quiet stream fan

Straightening vane
### FXHQ_MVJU SPECIFICATIONS

<table>
<thead>
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<th>Model Name</th>
<th>1TON</th>
<th>2TON</th>
<th>3TON</th>
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<tr>
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<tr>
<td>Rated Cooling Capacity BTU/h</td>
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<td>36,000</td>
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<tr>
<td>Rated Heating Capacity BTU/h</td>
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<td>40,000</td>
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<td>CFM Airflow Rate (H/L)</td>
<td>410/340</td>
<td>710/600</td>
<td>830/670</td>
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<td>lbs Weight</td>
<td>55</td>
<td>80</td>
<td>90</td>
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<td>in Height</td>
<td>7-11/16</td>
<td>7-7/16</td>
<td>7-5/8</td>
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<tr>
<td>in Width</td>
<td>37-13/16</td>
<td>55-1/8</td>
<td>62-5/8</td>
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<td>in Depth</td>
<td>28-3/4</td>
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<tr>
<td>dB(A) Sound Pressure (H/L)</td>
<td>42/33</td>
<td>44/36</td>
<td>46/41</td>
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<tr>
<td>Gas Pipe Connections</td>
<td>1/2(Flare)</td>
<td>5/8(Flare)</td>
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<td>Liquid Pipe Connections</td>
<td>1/4(Flare)</td>
<td>3/8(Flare)</td>
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<td>R-410A Refrigerant</td>
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<td></td>
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<tr>
<td>Electronic Expansion Valve</td>
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<td></td>
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<tr>
<td>A Maximum Overcurrent Protective Device</td>
<td>15</td>
<td>1.0</td>
<td>1.4</td>
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<td>A Minimum Circuit Amps</td>
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<tr>
<td>Resin Net (with Mold Resistant) Standard Filter Type</td>
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<td><strong>Note:</strong> Specifications are subject to change without notice.</td>
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</tbody>
</table>

### FXHQ_MVJU INSTALLATION SPACE

![Diagram of installation space](image)

Air outlet

Required service space

Floor

Obstruction

12" or more

1-3/16" or more

1-3/16" or more

### FXHQ_MVJU ACCESSORIES

<table>
<thead>
<tr>
<th>Model Name</th>
<th>1TON</th>
<th>2TON</th>
<th>3TON</th>
</tr>
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<tbody>
<tr>
<td>Navigation™ Remote Controller*</td>
<td>FXHQ12MVJU</td>
<td>FXHQ24MVJU</td>
<td>FXHQ36MVJU</td>
</tr>
<tr>
<td>DKN Cloud Wi-Fi Adaptor</td>
<td>BRC1E73</td>
<td>BRC1E73</td>
<td>BRC1E73</td>
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<tr>
<td>Simplified Wired Remote Controller*</td>
<td>AZAI6W3CDA</td>
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<td>Wireless Remote Controller</td>
<td>BRC2A71</td>
<td>BRC2A71</td>
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<tr>
<td>Remote Sensor Kit</td>
<td>KRC5A1-1B</td>
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<tr>
<td>Wiring Adaptor PCB (interface with aux/primary heater, humidifier, OA damper/fan)</td>
<td>KRP1C74</td>
<td>KRP1C74</td>
<td>KRP1C74</td>
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<tr>
<td>Group Control Adaptor PCB (connects to external BMS)</td>
<td>KRP4A72</td>
<td>KRP4A72</td>
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<tr>
<td>Replacement long-life filter</td>
<td>KAFJ5G01D58</td>
<td>KAFJ5G01D112</td>
<td>KAFJ5G01D160</td>
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<tr>
<td>Condensate Pump</td>
<td>DACA-CP3-1</td>
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</table>

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

Applications

» Retail
» Restaurants
» Offices
» Hotels
» Multi-family residences
### FXAQ_PVJU SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>FXAQ07PVJU</th>
<th>FXAQ09PVJU</th>
<th>FXAQ12PVJU</th>
<th>FXAQ18PVJU</th>
<th>FXAQ24PVJU</th>
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</thead>
<tbody>
<tr>
<td><strong>Power Supply</strong></td>
<td>V/ph/Hz</td>
<td>208-230/1/60</td>
<td>208-230/1/60</td>
<td>208-230/1/60</td>
<td>208-230/1/60</td>
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<tr>
<td><strong>Rated Cooling Capacity</strong></td>
<td>BTU/h</td>
<td>7500</td>
<td>9000</td>
<td>11000</td>
<td>15000</td>
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<tr>
<td><strong>Rated Heating Capacity</strong></td>
<td>BTU/h</td>
<td>8500</td>
<td>10500</td>
<td>13000</td>
<td>18000</td>
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<td><strong>Airflow Rate (H/L)</strong></td>
<td>CFM</td>
<td>260/160</td>
<td>280/175</td>
<td>290/180</td>
<td>500/400</td>
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<td><strong>Weight</strong></td>
<td>lbs</td>
<td>26</td>
<td>31</td>
<td>31</td>
<td>31</td>
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<td><strong>Height</strong></td>
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<td>11-3/8</td>
<td>11-3/8</td>
<td>11-3/8</td>
<td>11-3/8</td>
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<td><strong>Width</strong></td>
<td>in.</td>
<td>31-1/4</td>
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<td>41-3/8</td>
<td>41-3/8</td>
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<td>9</td>
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<td>9</td>
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<td>dB(A)</td>
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<td>37/31</td>
<td>38/31</td>
<td>43/37</td>
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<tr>
<td><strong>Pipe Connections</strong></td>
<td>Gas</td>
<td>1/2 (Flare)</td>
<td>1/2 (Flare)</td>
<td>5/8 (Flare)</td>
<td>5/8 (Flare)</td>
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<td><strong>Condensate Pipe Connection in. O.D.</strong></td>
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<td>11/16</td>
<td>11/16</td>
<td>11/16</td>
<td>11/16</td>
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<tr>
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<td>R-410A</td>
<td>R-410A</td>
<td>R-410A</td>
<td>R-410A</td>
<td>R-410A</td>
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<tr>
<td><strong>Refrigerant Control</strong></td>
<td>Electronic Expansion Valve</td>
<td>Electronic Expansion Valve</td>
<td>Electronic Expansion Valve</td>
<td>Electronic Expansion Valve</td>
<td>Electronic Expansion Valve</td>
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<tr>
<td><strong>Maximum Overcurrent Protective Device</strong></td>
<td>A</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td><strong>Minimum Circuit Amps</strong></td>
<td>A</td>
<td>0.4</td>
<td>0.5</td>
<td>0.6</td>
<td>0.6</td>
</tr>
<tr>
<td><strong>Protection Devices</strong></td>
<td>Fuse and Fan Motor Thermal Protector</td>
<td>Fuse and Fan Motor Thermal Protector</td>
<td>Fuse and Fan Motor Thermal Protector</td>
<td>Fuse and Fan Motor Thermal Protector</td>
<td>Fuse and Fan Motor Thermal Protector</td>
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<tr>
<td><strong>External Finish</strong></td>
<td>White Casing</td>
<td>White Casing</td>
<td>White Casing</td>
<td>White Casing</td>
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<td><strong>Standard Filter Type</strong></td>
<td>Resin Net (washable)</td>
<td>Resin Net (washable)</td>
<td>Resin Net (washable)</td>
<td>Resin Net (washable)</td>
<td>Resin Net (washable)</td>
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</tbody>
</table>

### 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.

### FXAQ_PVJU INSTALLATION SPACE

**Fig. 1**
- ≥ 2”
- ≥ 1/4”
- ≥ 100” (from floor) For installation in high places.

**Fig. 2**
- ≥ 3-1/2”
- ≥ 3-1/2”
- ≥ 1/4”
- ≤ 4-3/4”
- Obstruction

**Fig. 3**
- Installation panel (1)
- Temporary screw (In case of 12 type)
- Left pipe
- Back-left pipe
- Bottom-left pipe
- Back-right pipe
- Bottom-right pipe

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

Applications

» Multi-family residences
» Single-family residences
» Churches
» Historic buildings
» Schools
» Offices

FXLQ_MVJU9
Floor-Standing Unit

Outside Air
Integration Possible

Filter Included

Applications

» Multi-family residences
» Single-family residences
» Churches
» Historic buildings
» Schools
» Offices

BRC1E73 (option)
AZAI6WSCDKA (option)
BRC2A71 (option)
BRC4C82 (option)
### FXLQ_MVJU9 SPECIFICATIONS

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<th>0.6 TON</th>
<th>0.75 TON</th>
<th>1 TON</th>
<th>1.5 TON</th>
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<td>FXLQ18MVJU9</td>
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<tr>
<td>Condensate Pipe Connection in. O.D.</td>
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<td>5/8 (Flare)</td>
<td>3/8 (Flare)</td>
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<tr>
<td>Refrigerant</td>
<td>R-410A</td>
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<td>Electronic Expansion Valve</td>
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<td>Protection Devices</td>
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<td>Standard Filter Type</td>
<td>Resin Net (with Mold Resistant)</td>
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<td></td>
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</tr>
</tbody>
</table>

#### 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.

### FXLQ_MVJU9 INSTALLATION SPACE

- **Base**
  - 3/4” or more
  - 4” or more

- **Air inlet direction**
  - 40” or more

- **Window**
  - 70° or more

---

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

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.

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 ZONING KIT (DZK) - GENERAL TECHNICAL DATA

<table>
<thead>
<tr>
<th>DZK Model</th>
<th>DZK030E4-3</th>
<th>DZK030E5-3</th>
<th>DZK048E4-3</th>
<th>DZK048E6-3</th>
<th>DZKS015E4-3</th>
<th>DZKS030E4-3</th>
<th>DZKS030E5-3</th>
<th>DZKS048E4-3</th>
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<td>18</td>
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<td>18</td>
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<td>20</td>
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<tr>
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<td>4</td>
<td>5</td>
<td>4</td>
<td>6</td>
<td>4</td>
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<td>Hz</td>
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</table>

CONTROLS CONNECTION OF FXMQ_PBVJU AND DZK (WITHOUT BACNET)

Typical Zoning Kit Configuration — 4 Zones

- Zoning Box Control Box
- Navigation Remote Controller
- Wireless Thermostats
- Wired Thermostat
- Wireless Lite Thermostat

DAIKIN ZONING KIT (DZK) - COMPATIBILITY

VRV Indoor Unit
- 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

VRV Indoor Unit Compatibility

- DZK030E4-3
- DZK030E5-3
- DZK048E4-3
- DZK048E6-3
- DZKS015E4-3
- DZKS030E4-3
- DZKS030E5-3
- DZKS048E4-3
- DZKS048E6-3
- 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

VRV Product Catalog
Outdoor Units
Outdoor Units

Air-Cooled Condensers

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.

VRV IV S-series
Heat Pump
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.

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 the air-cooled VRV system and still use the same VRV indoor units, similar refrigerant piping methods, branch selector boxes, and controls as air-cooled VRV systems. The main difference is that heat is rejected or absorbed via the condensing units to and from the 2-pipe water circuit instead of the outside air.

VRV IV 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 return
» Engineered with Daikin vapor injection compressor for optimized part load efficiencies

VRV IV Heat Pump & Heat Recovery
6 to 38° 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 X Heat Recovery & Heat Pump
6 to 38 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 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.

VRV IV Heat Pump & Heat Recovery
6 to 38° 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.
Local assembly of products enables Daikin to react fast to changes in the marketplace and truly optimize the product for the North American market.
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.

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.
  - 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.

¹ When testing in accordance to ASTM B117 methodology.

¹ Refer to engineering manuals for design rules and pipe sizes.
**VRV IV X CERTIFIED DATA - HEAT RECOVERY, 208-230V/60HZ/3PH, 460V/60HZ/3PH**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Capacity (Tons)</th>
<th>IEER Non-Ducted</th>
<th>IEER Ducted</th>
<th>SCHE Non-Ducted</th>
<th>SCHE Ducted</th>
<th>COP @ 47°F Non-Ducted</th>
<th>COP @ 47°F Ducted</th>
<th>COP @ 17°F Non-Ducted</th>
<th>COP @ 17°F Ducted</th>
<th>EER Non-Ducted</th>
<th>EER Ducted</th>
</tr>
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<tbody>
<tr>
<td>REYQ72XA</td>
<td>6</td>
<td>25.20</td>
<td>21.30</td>
<td>22.75</td>
<td>24.80</td>
<td>4.40</td>
<td>4.18</td>
<td>3.98</td>
<td>3.70</td>
<td>2.69</td>
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<td>REYQ96XA</td>
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<td>27.80</td>
<td>21.90</td>
<td>22.45</td>
<td>24.00</td>
<td>4.25</td>
<td>4.05</td>
<td>3.86</td>
<td>3.65</td>
<td>2.63</td>
<td>2.26</td>
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<tr>
<td>REYQ120XA</td>
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<td>22.65</td>
<td>23.00</td>
<td>24.50</td>
<td>4.10</td>
<td>3.94</td>
<td>3.75</td>
<td>3.54</td>
<td>2.54</td>
<td>2.21</td>
</tr>
<tr>
<td>REYQ144XA</td>
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<td>23.50</td>
<td>21.90</td>
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<td>REYQ168XA</td>
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<td>23.40</td>
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<td>3.60</td>
<td>3.41</td>
<td>3.22</td>
<td>2.22</td>
<td>1.91</td>
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<tr>
<td>REYQ192XA</td>
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<td>21.60</td>
<td>21.00</td>
<td>20.60</td>
<td>22.90</td>
<td>3.65</td>
<td>3.45</td>
<td>3.26</td>
<td>3.07</td>
<td>2.07</td>
<td>1.77</td>
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<tr>
<td>REYQ216XA</td>
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<td>20.70</td>
<td>19.00</td>
<td>18.60</td>
<td>22.20</td>
<td>3.50</td>
<td>3.30</td>
<td>3.11</td>
<td>2.92</td>
<td>1.92</td>
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<tr>
<td>REYQ240XA</td>
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<td>19.80</td>
<td>18.30</td>
<td>17.90</td>
<td>21.50</td>
<td>3.35</td>
<td>3.15</td>
<td>2.96</td>
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<td>1.77</td>
<td>1.47</td>
</tr>
<tr>
<td>REYQ264XA</td>
<td>22</td>
<td>18.90</td>
<td>17.40</td>
<td>17.00</td>
<td>20.70</td>
<td>3.20</td>
<td>3.00</td>
<td>2.81</td>
<td>2.62</td>
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<td>1.32</td>
</tr>
<tr>
<td>REYQ288XA</td>
<td>24</td>
<td>18.00</td>
<td>16.50</td>
<td>16.10</td>
<td>19.90</td>
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<td>2.85</td>
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<td>2.47</td>
<td>1.47</td>
<td>1.17</td>
</tr>
<tr>
<td>REYQ312XA</td>
<td>26</td>
<td>17.10</td>
<td>15.60</td>
<td>15.20</td>
<td>18.70</td>
<td>2.90</td>
<td>2.70</td>
<td>2.51</td>
<td>2.32</td>
<td>1.32</td>
<td>1.02</td>
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<tr>
<td>REYQ336XA</td>
<td>28</td>
<td>16.20</td>
<td>14.70</td>
<td>14.30</td>
<td>18.20</td>
<td>2.75</td>
<td>2.55</td>
<td>2.36</td>
<td>2.17</td>
<td>1.17</td>
<td>0.87</td>
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<tr>
<td>REYQ360XA</td>
<td>30</td>
<td>15.30</td>
<td>13.80</td>
<td>13.40</td>
<td>17.10</td>
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<td>2.40</td>
<td>2.21</td>
<td>2.02</td>
<td>1.02</td>
<td>0.72</td>
</tr>
<tr>
<td>REYQ384XA</td>
<td>32</td>
<td>14.40</td>
<td>12.90</td>
<td>12.50</td>
<td>16.00</td>
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<td>2.25</td>
<td>2.06</td>
<td>1.87</td>
<td>0.87</td>
<td>0.57</td>
</tr>
<tr>
<td>REYQ408XA</td>
<td>34</td>
<td>13.50</td>
<td>12.00</td>
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<td>15.50</td>
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<td>2.10</td>
<td>1.91</td>
<td>1.72</td>
<td>0.72</td>
<td>0.47</td>
</tr>
<tr>
<td>REYQ432XA</td>
<td>36</td>
<td>12.60</td>
<td>11.10</td>
<td>10.70</td>
<td>14.00</td>
<td>2.15</td>
<td>1.95</td>
<td>1.76</td>
<td>1.57</td>
<td>0.57</td>
<td>0.27</td>
</tr>
<tr>
<td>REYQ456XA</td>
<td>38</td>
<td>11.70</td>
<td>10.20</td>
<td>9.80</td>
<td>13.30</td>
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<td>1.80</td>
<td>1.61</td>
<td>1.42</td>
<td>0.47</td>
<td>0.17</td>
</tr>
</tbody>
</table>

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 X 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.

**TECHNICAL COOLING FEATURE FOR VRV IV X REYQ_X HEAT RECOVERY OUTDOOR UNITS**

Technical Cooling - Cooling operation extended from 23°F ambient air temperature down to -4°F. The Technical Cooling feature is engaged by field settings on the outdoor unit and on branch selector boxes. It requires addition of snow hoods to the unit and allows operation down to -4°F DDB ambient temperature in cooling mode. See the Engineering Data book for complete application rules and contact your local Daikin representative for wind cover specification requirements.
### TECHNICAL DATA FOR VRV IV X-TATJU/TAYDU HEAT RECOVERY OUTDOOR UNITS

<table>
<thead>
<tr>
<th>Model</th>
<th>8 Ton</th>
<th>10 Ton</th>
<th>12 Ton</th>
<th>14 Ton</th>
<th>16 Ton</th>
<th>18 Ton</th>
<th>20 Ton</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated Cooling Capacity</strong></td>
<td>BTU/h</td>
<td>68,000</td>
<td>92,000</td>
<td>114,000</td>
<td>138,000</td>
<td>160,000</td>
<td>184,000</td>
</tr>
<tr>
<td><strong>Rated Heating Capacity</strong></td>
<td>BTU/h</td>
<td>77,000</td>
<td>103,000</td>
<td>129,000</td>
<td>154,000</td>
<td>180,000</td>
<td>206,000</td>
</tr>
<tr>
<td><strong>Standard Operation Range</strong></td>
<td>Cooling</td>
<td>F (°C) DB</td>
<td>23 to 122</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fan ESP, Standard/Max</strong></td>
<td>in. W.G</td>
<td>0.12 / 0.32</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Compressors, all inverters Qty</strong></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigerant Piping, Layout</strong></td>
<td>Maximum Vertical Pipe Length Above Unit ft.</td>
<td>184 (285 With Field Setting)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum Vertical Pipe Length Below Unit ft.</td>
<td>130 (195 With Field Setting)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum Actual Pipe Length ft.</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum Equivalent Pipe Length ft.</td>
<td>620</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum Total Pipe Length ft.</td>
<td>3,280</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigerant Piping, Connections</strong></td>
<td>Liquid Pipe, Main Line in.</td>
<td>3/8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Suction Gas Pipe, Main Line in.</td>
<td>3/4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Discharge Gas Pipe, Main Line in.</td>
<td>5/8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Connection Ratio</strong></td>
<td>Standard Connectable Indoor Unit Ratio %</td>
<td>70 - 200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum Number of Indoor Units Qty</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Factory Refrigerant Charge lbs.</td>
<td>25.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weight lbs.</td>
<td>727</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (H x W x D)</strong> in.</td>
<td>66-11/16 x 48-7/8 x 30-3/16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Varies based on indoor model selected
2 35.5 ton for REYQ432TAYDU

### OPERATION RANGE FOR ALL VRV IV X HEAT RECOVERY OUTDOOR UNITS

<table>
<thead>
<tr>
<th>Range</th>
<th>Cooling °F</th>
<th>Heating °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>-4° to 122</td>
<td>13 to 60</td>
<td></td>
</tr>
</tbody>
</table>

*Application rules apply*
### TECHNICAL DATA FOR VRV IV X-TATJU/TAYDU HEAT RECOVERY OUTDOOR UNITS

#### Layout

<table>
<thead>
<tr>
<th>Model</th>
<th>Compressor Rated Load (MCA)</th>
<th>Minimum Circuit Amps</th>
<th>Suction Gas Pipe</th>
<th>Maximum Equivalent Pipe Length ft.</th>
<th>Maximum Vertical Pipe Length Below Unit ft.</th>
<th>Capacity Control Range %</th>
<th>Revolutions per minute RPM</th>
<th>Airflow CFM</th>
<th>Heating °F (°C) WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 Ton</td>
<td>208-230v/460v</td>
<td>38.1 / 18.9</td>
<td>5/8</td>
<td>541</td>
<td>130 (195 With Field Setting)</td>
<td>15-100</td>
<td>3738</td>
<td>7283</td>
<td>-13 to 60</td>
</tr>
<tr>
<td>24 Ton</td>
<td>208-230v/460v</td>
<td>38.1 / 21.1</td>
<td>3/4</td>
<td></td>
<td></td>
<td>13-100</td>
<td>5142</td>
<td>7989</td>
<td>-13 to 60</td>
</tr>
<tr>
<td>26 Ton</td>
<td>208-230v/460v</td>
<td>43.0 / 21.1</td>
<td>3/4</td>
<td></td>
<td></td>
<td>11-100</td>
<td>6888</td>
<td>7989</td>
<td>-13 to 60</td>
</tr>
<tr>
<td>28 Ton</td>
<td>208-230v/460v</td>
<td>43.0 / 27.9</td>
<td>7/8</td>
<td></td>
<td></td>
<td>14-100</td>
<td>5214</td>
<td>9480</td>
<td>-13 to 60</td>
</tr>
<tr>
<td>30 Ton</td>
<td>208-230v/460v</td>
<td>58.3 / 27.9</td>
<td>1-1/8</td>
<td></td>
<td></td>
<td>12-100</td>
<td>6330</td>
<td>9480</td>
<td>-13 to 60</td>
</tr>
<tr>
<td>32 Ton</td>
<td>208-230v/460v</td>
<td>61.9 / 27.9</td>
<td>1-1/8</td>
<td></td>
<td></td>
<td>6-100</td>
<td>5214 + 5214</td>
<td>9480</td>
<td>-13 to 60</td>
</tr>
<tr>
<td>34 Ton</td>
<td>208-230v/460v</td>
<td>61.9 / 31.1</td>
<td>1-1/8</td>
<td></td>
<td></td>
<td>6-100</td>
<td>5994 + 5994</td>
<td>9480</td>
<td>-13 to 60</td>
</tr>
<tr>
<td>36 Ton</td>
<td>208-230v/460v</td>
<td>61.9 / 31.1</td>
<td>1-1/8</td>
<td></td>
<td></td>
<td>6-100</td>
<td>6702 + 6702</td>
<td>9480</td>
<td>-13 to 60</td>
</tr>
</tbody>
</table>

#### HEATING

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Heating Capacity BTU/h</th>
<th>Liquid Pipe, Main Line in.</th>
<th>Combinations</th>
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</thead>
<tbody>
<tr>
<td>22 Ton</td>
<td>77,000</td>
<td>1/2</td>
<td>2 x REYQ144XA</td>
</tr>
<tr>
<td>24 Ton</td>
<td>103,000</td>
<td>5/8</td>
<td>1 x REYQ120XA</td>
</tr>
<tr>
<td>26 Ton</td>
<td>129,000</td>
<td>1/2</td>
<td>1 x REYQ120XA</td>
</tr>
<tr>
<td>28 Ton</td>
<td>154,000</td>
<td>5/8</td>
<td>2 x REYQ120XA</td>
</tr>
<tr>
<td>30 Ton</td>
<td>180,000</td>
<td>5/8</td>
<td>1 x REYQ120XA</td>
</tr>
<tr>
<td>32 Ton</td>
<td>206,000</td>
<td>5/8</td>
<td>2 x REYQ120XA</td>
</tr>
<tr>
<td>34 Ton</td>
<td>232,000</td>
<td>5/8</td>
<td>2 x REYQ120XA</td>
</tr>
<tr>
<td>36 Ton</td>
<td>258,000</td>
<td>5/8</td>
<td>2 x REYQ120XA</td>
</tr>
</tbody>
</table>

#### OUTDOOR UNITS

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

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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.
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 capable
- 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 downflow
- Backed by a 10-Year Parts Limited Warranty*

*Rules apply, refer to installation manual for details.

---

**INDOOR – CXTQ**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>CXTQ24TASBLU</th>
<th>CXTQ36TASBLU</th>
<th>CXTQ48TASBLU</th>
<th>CXTQ60TASBLU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>24 VAC from gas furnace</td>
<td>24 VAC from gas furnace</td>
<td>24 VAC from gas furnace</td>
<td>24 VAC from gas furnace</td>
</tr>
<tr>
<td>Nominal Tons</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>*1,*3 Cooling Capacity</td>
<td>24,000 (7.0)</td>
<td>36,000 (10.6)</td>
<td>48,000 (14.1)</td>
<td>60,000 (17.6)</td>
</tr>
<tr>
<td>*2,*3 Heating Capacity</td>
<td>27,000 (7.9)</td>
<td>40,000 (11.7)</td>
<td>54,000 (15.8)</td>
<td>66,000 (19.4)</td>
</tr>
<tr>
<td>Casing / Color</td>
<td>Daikin Slate Gray</td>
<td>Daikin Slate Gray</td>
<td>Daikin Slate Gray</td>
<td>Daikin Slate Gray</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>in. (mm)</td>
<td>in. (mm)</td>
<td>in. (mm)</td>
<td>in. (mm)</td>
</tr>
<tr>
<td>22-1/16 x 17-23/32 x 24-23/32 (560 x 450 x 615)</td>
<td>22-1/16 x 17-23/32 x 24-23/32 (560 x 450 x 615)</td>
<td>30-1/16 x 21-7/32 x 24-7/32 (764 x 539 x 615)</td>
<td>30-1/16 x 24-23/32 x 24-23/32 (764 x 628 x 615)</td>
<td></td>
</tr>
<tr>
<td>Weight *4 Air pressure drop in w.g.</td>
<td>46 (20.9)</td>
<td>52 (23.6)</td>
<td>72 (32.7)</td>
<td>79 (35.8)</td>
</tr>
<tr>
<td>Pipe Connections</td>
<td>Liquid: 3/8” (9.5)</td>
<td>3/8” (9.5)</td>
<td>3/8” (9.5)</td>
<td>3/8” (9.5)</td>
</tr>
<tr>
<td></td>
<td>Gas: 5/8” (15.8)</td>
<td>5/8” (15.8)</td>
<td>5/8” (15.8)</td>
<td>5/8” (15.8)</td>
</tr>
<tr>
<td></td>
<td>Drain: 3/4” (19.1)</td>
<td>3/4” (19.1)</td>
<td>3/4” (19.1)</td>
<td>3/4” (19.1)</td>
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<tr>
<td>Safety devices</td>
<td>Fuse</td>
<td>Fuse</td>
<td>Fuse</td>
<td>Fuse</td>
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<tr>
<td>Refrigerant Control</td>
<td>Electronic Expansion Valve</td>
<td>Electronic Expansion Valve</td>
<td>Electronic Expansion Valve</td>
<td>Electronic Expansion Valve</td>
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<tr>
<td>Connectible Outdoor Unit</td>
<td>VRV IV X</td>
<td>VRV IV X</td>
<td>VRV IV X</td>
<td>VRV IV X</td>
</tr>
</tbody>
</table>
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 all-inverter 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
Technical Cooling Feature for VRV RELQ_T

Cooling operation extended from 23°F ambient air temperature down to -4°F. The Technical Cooling feature is engaged by field settings on the outdoor unit and on branch selector boxes. It requires addition of wind covers to the unit and allows operation down to -4°F FDB ambient temperature in cooling mode. See the Engineering Data book for complete application rules and contact your local Daikin representative for wind cover specification requirements.
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

**TECHNICAL DATA FOR VRV AURORA RELQ_TATJU/TAYDU HEAT RECOVERY OUTDOOR UNITS**

<table>
<thead>
<tr>
<th>Model</th>
<th>208-230V/3Ph/60Hz</th>
<th>460V/3Ph/60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Cooling Capacity BTU/h</td>
<td>69,000</td>
<td>92,000</td>
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<tr>
<td>Rated Heating Capacity BTU/h</td>
<td>77,000</td>
<td>103,000</td>
</tr>
<tr>
<td>Operation Range Cooling °F/°C DB</td>
<td>23° to 122</td>
<td></td>
</tr>
<tr>
<td>Operation Range Heating °F/°C WB</td>
<td>-22 to 60</td>
<td></td>
</tr>
<tr>
<td>Sound Pressure dBA</td>
<td>60</td>
<td>61</td>
</tr>
<tr>
<td>Airflow (Cooling) CFM</td>
<td>6956</td>
<td>7989</td>
</tr>
<tr>
<td>Airflow (Heating) CFM</td>
<td>7283</td>
<td>7283</td>
</tr>
<tr>
<td>Fan ESP, Standard/Max in. Wg</td>
<td>0.12 / 0.32</td>
<td></td>
</tr>
<tr>
<td>Compressors, all inverter Qty</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Revolutions per minute RPM</td>
<td>3738</td>
<td>3342</td>
</tr>
<tr>
<td>Capacity Control Range %</td>
<td>11~100</td>
<td>10~100</td>
</tr>
<tr>
<td>Refrigerant Piping, Layout</td>
<td>Maximum Vertical Pipe Length Above Unit ft.</td>
<td>164 (295 With Field Setting)</td>
</tr>
<tr>
<td>Maximum Vertical Pipe Length Below Unit ft.</td>
<td>131 (195 With Field Setting)</td>
<td></td>
</tr>
<tr>
<td>Maximum Vertical Pipe Length Between IDU ft.</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Maximum Actual Pipe Length ft.</td>
<td>541</td>
<td></td>
</tr>
<tr>
<td>Maximum Equivalent Pipe Length ft.</td>
<td>620</td>
<td></td>
</tr>
<tr>
<td>Maximum Total Pipe Length ft.</td>
<td>1,840</td>
<td></td>
</tr>
<tr>
<td>Refrigerant Piping, Connections</td>
<td>Liquid Pipe (Main Line) in.</td>
<td>3/8</td>
</tr>
<tr>
<td>Suction Gas Pipe (Main Line) in.</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>Discharge Gas Pipe (Main Line) in.</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>Standard Connectable Indoor Unit Ratio %</td>
<td>70 - 200^2</td>
<td></td>
</tr>
<tr>
<td>Maximum Number of Indoor Units Qty</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>Electrical</td>
<td>Maximum Overcurrent Protection, MOP (RELQ_TATJU / RELQ_TAYDU) A</td>
<td>70 / 35</td>
</tr>
<tr>
<td>Minimum Circuit Amps, MCA (RELQ_TATJU / RELQ_TAYDU) A</td>
<td>60.8 / 28.1</td>
<td>76.5 / 39.8</td>
</tr>
<tr>
<td>Compressor Rated Load Amps, RLA (RELQ_TATJU / RELQ_TAYDU) A</td>
<td>20.7 / 9.4</td>
<td>36.8 / 16.6</td>
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<tr>
<td>Unit</td>
<td>Factory Refrigerant Charge lbs.</td>
<td>25.8</td>
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<tr>
<td>Weight lbs.</td>
<td>727</td>
<td>753</td>
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<tr>
<td>Dimensions (H x W x D) in.</td>
<td>66-11/16 X 48-7/8 X 30-3/16</td>
<td></td>
</tr>
</tbody>
</table>

1. Cooling operation can be extended down to -4°F with application rules and conditions
2. Varies based on indoor model selected

www.daikincomfort.com
<table>
<thead>
<tr>
<th>Model</th>
<th>12 Ton</th>
<th>16 Ton</th>
<th>20 Ton</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RELQ72TATJU</td>
<td>RELQ96TATJU</td>
<td>RELQ120TATJU</td>
</tr>
<tr>
<td>208-230V/3Ph/60Hz</td>
<td>RELQ144TAYDU</td>
<td>RELQ192TAYDU</td>
<td>RELQ240TAYDU</td>
</tr>
<tr>
<td>460V/3Ph/60Hz</td>
<td>RELQ72TAYDU</td>
<td>RELQ96TAYDU</td>
<td>RELQ120TAYDU</td>
</tr>
</tbody>
</table>

### Performance

- **Rated Cooling Capacity**
  - BTU/h: 138,000
  - BTU/h: 154,000
  - BTU/h: 170,000
  - BTU/h: 220,000

- **Rated Heating Capacity**
  - BTU/h: 77,000
  - BTU/h: 93,000
  - BTU/h: 110,000
  - BTU/h: 150,000

- **Operation Range Cooling**
  - °F (°C) OB: 23° to 122°F

- **Operation Range Heating**
  - °F (°C) WB: -22° to 60°F

- **Sound Pressure dB(A)**
  - 60
  - 61
  - 63
  - 64

- **Airflow (Cooling) CFM**
  - 6956
  - 7989
  - 8806
  - 7283

- **Airflow (Heating) CFM**
  - 7283
  - 7283

- **Fan ESP, Standard/Max**
  - in. Wg: 0.12 / 0.32

- **Compressors, all inverter Qty**
  - 1

- **Revolutions per minute RPM**
  - 3738
  - 3342
  - 4350

- **Capacity Control Range %**
  - 11~100
  - 10~100
  - 9~100

### Refrigerant Piping, Layout

- **Maximum Vertical Pipe Length Above Unit ft.**
  - 164

- **Maximum Vertical Pipe Length Below Unit ft.**
  - 131

- **Maximum Actual Pipe Length ft.**
  - 541

- **Maximum Total Pipe Length ft.**
  - 1,840

### Refrigerant Piping, Connections

- **Liquid Pipe (Main Line) in.**
  - 1/2

- **Suction Gas Pipe (Main Line) in.**
  - 1-1/8

- **Discharge Gas Pipe (Main Line) in.**
  - 1-1/8

- **Standard Connectable Indoor Unit Ratio %**
  - 70 - 200%

### Electrical

- **Maximum Overcurrent Protection, MOP (RELQ_TATJU / RELQ_TAYDU) A**
  - 70 + 70 / 35 + 35

- **Minimum Circuit Amps, MCA (RELQ_TATJU / RELQ_TAYDU) A**
  - 60.8

- **Compressor Rated Load Amps, RLA (RELQ_TATJU / RELQ_TAYDU) A**
  - 21.6

- **Unit Factory Refrigerant Charge lbs.**
  - 25.8

- **Weight lbs.**
  - 66-11/16

- **Dimensions (H x W x D) in.**
  - 66-11/16 X 48-7/8 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:
- Cold Climate
- Schools
- Office
- Residential
- Retail

» 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
**DETAILED OPERATION RANGES FOR VRV/RXLQ T HEAT PUMP OUTDOOR UNITS**

**Cooling**
- Range for continuous operation
- Range for pull-down operation

**Heating**
- Range for continuous operation
- Range for pull-down operation

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.
» 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

### TECHNICAL DATA FOR VRV AURORA RXLQ_T

<table>
<thead>
<tr>
<th>Model</th>
<th>6 Ton</th>
<th>8 Ton</th>
<th>10 Ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combination</td>
<td>RXLQ72TATJU</td>
<td>RXLQ96TATJU</td>
<td>RXLQ120TATJU</td>
</tr>
<tr>
<td>Combination</td>
<td>RXLQ072TAYDU</td>
<td>RXLQ096TAYDU</td>
<td>RXLQ120TAYDU</td>
</tr>
<tr>
<td><strong>Performance</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Rated Cooling Capacity BTU/h</td>
<td>69,000</td>
<td>92,000</td>
<td>114,000</td>
</tr>
<tr>
<td>Rated Heating Capacity BTU/h</td>
<td>77,000</td>
<td>103,000</td>
<td>129,000</td>
</tr>
<tr>
<td>Operation Range Cooling °F/°C</td>
<td>23 to 122</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation Range Heating °F/°C</td>
<td>22 to 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound Pressure dB(A)</td>
<td>60</td>
<td>61</td>
<td>64</td>
</tr>
<tr>
<td>Airflow CFM</td>
<td>7283</td>
<td>7989</td>
<td>8806</td>
</tr>
<tr>
<td>Fan ESP, Standard/Max in. Wg</td>
<td>0.12 / 0.32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revolutions per minute RPM</td>
<td>3738</td>
<td>3294</td>
<td>4350</td>
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<tr>
<td>Capacity Control Range %</td>
<td>11-100</td>
<td>13-100</td>
<td>12-100</td>
</tr>
<tr>
<td><strong>Refrigerant Piping, Layout</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Vertical Pipe Length Above Unit ft.</td>
<td>164 (295 With Field Setting)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Vertical Pipe Length Below Unit ft.</td>
<td>131 (195 With Field Setting)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Vertical Pipe Length Between IDU ft.</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Actual Pipe Length ft.</td>
<td>541</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Equivalent Pipe Length ft.</td>
<td>670</td>
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</tr>
<tr>
<td>Maximum Total Pipe Length ft.</td>
<td>1,640</td>
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</tr>
<tr>
<td><strong>Refrigerant Piping, Connections</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Liquid Pipe (Main Line) in.</td>
<td>3/8</td>
<td>3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>Suction Gas Pipe (Main Line) in.</td>
<td>3/4</td>
<td>7/8</td>
<td>1-1/8</td>
</tr>
<tr>
<td>Standard Connectable Indoor Unit Ratio %</td>
<td>70 - 200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Number of Indoor Units Qty</td>
<td>12</td>
<td>16</td>
<td>20</td>
</tr>
<tr>
<td><strong>Electrical</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Maximum Overcurrent Protection, MOOP (RXLQ_TATJU / RXLQ_TAYDU) A</td>
<td>70 / 35</td>
<td>80 / 45</td>
<td>90 / 50</td>
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<td>Minimum Circuit Amps, MCA (RXLQ_TATJU / RXLQ_TAYDU) A</td>
<td>60 / 28.1</td>
<td>76.5 / 39.8</td>
<td>83.4 / 43.4</td>
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<tr>
<td>Compressor Rated Load Amps, RLA (RXLQ_TATJU / RXLQ_TAYDU) A</td>
<td>23.9 / 10.4</td>
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<td>41.4 / 18.0</td>
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<tr>
<td><strong>Unit</strong></td>
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<tr>
<td>Factory Refrigerant Charge lbs.</td>
<td>25.8</td>
<td></td>
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</tr>
<tr>
<td>Weight lbs.</td>
<td>727</td>
<td>793</td>
<td>793</td>
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<tr>
<td>Dimensions (H x W x D) in.</td>
<td>66-11/16 X 48-7/8 X 30-3/16</td>
<td></td>
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</table>

*Varies based on indoor model selected*
### TDAT for VRV AURORA RXLQ_T

<table>
<thead>
<tr>
<th>Model</th>
<th>12 Ton</th>
<th>16 Ton</th>
<th>20 Ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>208-230V/3Ph/60Hz</td>
<td>RXLQ144TATJU</td>
<td>RXLQ192TATJU</td>
<td>RXLQ240TATJU</td>
</tr>
<tr>
<td>460V/3Ph/60Hz</td>
<td>RXLQ144TAYDU</td>
<td>RXLQ192TAYDU</td>
<td>RXLQ240TAYDU</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Performance</strong></th>
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<tr>
<td>Rated Cooling Capacity BTU/h</td>
<td>138,000</td>
<td>184,000</td>
<td>220,000</td>
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<tr>
<td>Rated Heating Capacity BTU/h</td>
<td>154,000</td>
<td>209,000</td>
<td>255,000</td>
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<tr>
<td>Operation Range Cooling °F/°C</td>
<td>DB 23 to 122</td>
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<td></td>
</tr>
<tr>
<td>Operation Range Heating °F/°C</td>
<td>WB -22 to 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound Pressure dB(A)</td>
<td>60</td>
<td>61</td>
<td>64</td>
</tr>
<tr>
<td>Airflow (Cooling) CFM</td>
<td>7283</td>
<td>7989</td>
<td>8806</td>
</tr>
<tr>
<td>Fan ESP, Standard/Max in. Wg</td>
<td>0.12</td>
<td>0.13</td>
<td>0.32</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Compressor</strong></th>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Compressors, all inverter Uty</td>
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<tr>
<td>Revolutions per minute RPM</td>
<td>3804</td>
<td>3342</td>
<td>4230</td>
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<tr>
<td>Capacity Control Range %</td>
<td>6-100</td>
<td>6-100</td>
<td>6-100</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Refrigerant Piping, Layout</strong></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Vertical Pipe Length Above Unit ft.</td>
<td>184 (295 With Field Setting)</td>
<td></td>
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</tr>
<tr>
<td>Maximum Vertical Pipe Length Below Unit ft.</td>
<td>131 (195 With Field Setting)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Vertical Pipe Length Between IDU ft.</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Actual Pipe Length ft.</td>
<td>541</td>
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<tr>
<td>Maximum Equivalent Pipe Length ft.</td>
<td>620</td>
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<tr>
<td>Maximum Total Pipe Length ft.</td>
<td>1,640</td>
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<table>
<thead>
<tr>
<th><strong>Refrigerant Piping, Connections</strong></th>
<th></th>
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<tbody>
<tr>
<td>Liquid Pipe (Main Line) in.</td>
<td>1/2</td>
<td>5/8</td>
<td>5/8</td>
</tr>
<tr>
<td>Suction Gas Pipe (Main Line) in.</td>
<td>1-1/8</td>
<td>1-3/8</td>
<td>1-3/8</td>
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<tr>
<td>Standard Connectable Indoor Unit Ratio %</td>
<td>70 - 200</td>
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<table>
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<tr>
<th><strong>Electrical</strong></th>
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<tbody>
<tr>
<td>Maximum Overcurrent Protection, MOP (RXLQ_TATJU / RXLQ_TAYDU) A</td>
<td>70 + 70 / 35 + 35</td>
<td>80 + 80 / 45 + 45</td>
<td>90 + 90 / 50 + 50</td>
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<tr>
<td>Minimum Circuit Amps, MCA (RXLQ_TATJU / RXLQ_TAYDU) A</td>
<td>60.8 + 60.8 / 28.1 + 28.1</td>
<td>76.5 + 76.5 / 39.8 + 39.8</td>
<td>83.4 + 83.4 / 43.4 + 43.4</td>
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<tr>
<td>Compressor Rated Load Amps, RLA (RXLQ_TATJU / RXLQ_TAYDU) A</td>
<td>23.9 + 23.9 / 10.4 + 10.4</td>
<td>40.8 + 40.8 / 17.7 + 17.7</td>
<td>41.7 + 41.7 / 18.2 + 18.2</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Unit</strong></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Weight lbs.</td>
<td>2 x 727</td>
<td>2 x 793</td>
<td>2 x 793</td>
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</tbody>
</table>
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.
## Technical Cooling Feature for VRV IV REYQ T Heat Recovery Outdoor Units

Technical Cooling - Cooling operation extended from 23°F ambient air temperature down to -4°F.

The Technical Cooling feature is engaged by field settings on the outdoor unit and on branch selector boxes. It requires addition of wind covers to the unit and allows operation down to -4°F FDB ambient temperature in cooling mode. See the Engineering Data book for complete application rules and contact your local Daikin representative for wind cover specification requirements.

### Certified Efficiency Data in Accordance with ANSI/AHRI Standard 1230 2014

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 Certified Data - Heat Recovery, 208-230V/60Hz/3Ph and 460V/60Hz/3Ph

<table>
<thead>
<tr>
<th>Product#</th>
<th>Capacity (Tons)</th>
<th>IEER Non-Ducted</th>
<th>IEER Ducted</th>
<th>IEER Mixed</th>
<th>SCHE Non-Ducted</th>
<th>SCHE Ducted</th>
<th>SCHE Mixed</th>
<th>COP @ 47°F Non-Ducted</th>
<th>COP @ 47°F Ducted</th>
<th>COP @ 47°F Mixed</th>
<th>COP @ 17°F Non-Ducted</th>
<th>COP @ 17°F Ducted</th>
<th>COP @ 17°F Mixed</th>
<th>EER Non-Ducted</th>
<th>EER Ducted</th>
<th>EER Mixed</th>
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<tr>
<td>REYQ2T</td>
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<td>22.90</td>
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<td>23.40</td>
<td>4.31</td>
<td>4.26</td>
<td>4.38</td>
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<td>4.63</td>
<td>2.70</td>
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<td>24.70</td>
<td>4.00</td>
<td>3.90</td>
<td>4.02</td>
<td>3.57</td>
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<td>2.43</td>
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<td>4.25</td>
<td>4.17</td>
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<td>4.13</td>
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<td>4.07</td>
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<td>3.03</td>
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<td>2.89</td>
<td>2.87</td>
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<td>17.30</td>
<td>19.30</td>
<td>2.85</td>
<td>2.83</td>
<td>2.98</td>
<td>2.42</td>
<td>3.27</td>
<td>3.29</td>
<td>1.49</td>
<td>1.29</td>
<td>1.55</td>
</tr>
</tbody>
</table>

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.
### TECHNICAL DATA FOR VRV IV REYQ_TATJU/TAYDU HEAT RECOVERY OUTDOOR UNITS

<table>
<thead>
<tr>
<th>Model</th>
<th>6 Ton</th>
<th>8 Ton</th>
<th>10 Ton</th>
<th>12 Ton</th>
<th>14 Ton</th>
<th>16 Ton</th>
<th>18 Ton</th>
<th>20 Ton</th>
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</thead>
<tbody>
<tr>
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<td>BTU/h</td>
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<td>92,000</td>
<td>114,000</td>
<td>138,000</td>
<td>160,000</td>
<td>184,000</td>
<td>206,000</td>
</tr>
<tr>
<td>Rated Heating Capacity</td>
<td>BTU/h</td>
<td>75,000</td>
<td>100,000</td>
<td>126,000</td>
<td>150,000</td>
<td>176,000</td>
<td>200,000</td>
<td>226,000</td>
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<td>Sound Pressure</td>
<td>dBA</td>
<td>58</td>
<td>61</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>65</td>
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<tr>
<td>EER (Ducted / Non-Ducted)</td>
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<tr>
<td>Airflow</td>
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<td>5,827</td>
<td>6,286</td>
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<tr>
<td>Fan ESP, Standard/Max</td>
<td>in, Wg</td>
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<td>0.12 / 0.32</td>
<td>0.12 / 0.32</td>
<td>0.12 / 0.32</td>
<td>0.12 / 0.32</td>
<td>0.12 / 0.32</td>
<td>0.12 / 0.32</td>
</tr>
<tr>
<td>Compressors, all inverter</td>
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<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
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<td>Revolutions per minute</td>
<td>RPM</td>
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<td>3630</td>
<td>3630</td>
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<tr>
<td>Capacity Control Range</td>
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<td>5-100</td>
<td>5-100</td>
<td>5-100</td>
<td>5-100</td>
</tr>
<tr>
<td>Refrigerant Piping, Layout</td>
<td>Liquid Pipe, Main Line</td>
<td>in.</td>
<td>Ø3/8 (9.5) C1220T (Brazing Connection)</td>
<td>Ø1/2 (12.7) C1220T (Brazing Connection)</td>
<td>Ø5/8 (15.9) C1220T (Brazing Connection)</td>
<td>Ø7/8 (22.2) C1220T (Brazing Connection)</td>
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</tr>
<tr>
<td>Suction Gas Pipe, Main Line</td>
<td>in.</td>
<td>Ø3/4 (19.1) C1220T (Brazing Connection)</td>
<td>Ø7/8 (22.2) C1220T (Brazing Connection)</td>
<td>Ø1-1/8 (28.6) C1220T (Brazing Connection)</td>
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<td></td>
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<tr>
<td>Discharge Gas Pipe, Main Line</td>
<td>in.</td>
<td>Ø3/4 (19.1) C1220T (Brazing Connection)</td>
<td>Ø1-1/8 (28.6) C1220T (Brazing Connection)</td>
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<tr>
<td>Refrigerant Piping, Connections</td>
<td>Standard Connectable Indoor Unit Ratio</td>
<td>%</td>
<td>50 - 200</td>
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<td></td>
<td></td>
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<tr>
<td>Maximum Number of Indoor Units</td>
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<td>20</td>
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<td>29</td>
<td>33</td>
<td>37</td>
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<tr>
<td>Maximum Overcurrent Protection, MOP</td>
<td>REYQ_TAT / REYQ_TAY</td>
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<td>35/20</td>
<td>45/25</td>
<td>50/25</td>
<td>70/40</td>
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<td>30/2</td>
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<tr>
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<td>REYQ_TAT / REYQ_TAY</td>
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<td>13.7 / 13.7</td>
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<td>A</td>
<td>15 / 15</td>
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<td>(13.7 + 13.7) / (15 + 15)</td>
<td>(13.7 + 13.7) / (15 + 15)</td>
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<td>(6.2 + 6.2) / (6.2 + 6.2)</td>
<td>(6.2 + 6.2) / (6.2 + 6.2)</td>
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<td>(9.4 + 13.7) / (9.4 + 13.7)</td>
<td>(9.4 + 13.7) / (9.4 + 13.7)</td>
<td>(9.4 + 13.7) / (9.4 + 13.7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressor Rated Load Amps, SLA</td>
<td></td>
<td>A</td>
<td>(68 + 8) / (68 + 8)</td>
<td>(68 + 8) / (68 + 8)</td>
<td>(68 + 8) / (68 + 8)</td>
<td>(68 + 8) / (68 + 8)</td>
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<tr>
<td>Compressor Rated Load Amps, SLA</td>
<td></td>
<td>A</td>
<td>25.8</td>
<td>25.8</td>
<td>25.8</td>
<td>25.8</td>
<td></td>
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</tr>
<tr>
<td>Factory Refrigerant Charge</td>
<td>lbs.</td>
<td>21.9</td>
<td>25.8</td>
<td>25.8</td>
<td>25.8</td>
<td>25.8</td>
<td>25.8</td>
<td>25.8</td>
</tr>
<tr>
<td>Weight</td>
<td>lbs.</td>
<td>507 / 527</td>
<td>703 / 717</td>
<td>703 / 717</td>
<td>780 / 794</td>
<td>703 / 717</td>
<td>703 / 717</td>
<td>703 / 717</td>
</tr>
</tbody>
</table>

**OPERATION RANGE FOR ALL VRV IV HEAT RECOVERY OUTDOOR UNITS**

**Cooling/°F DB**

-4° – 122°

**Heating/°F WB**

-13° – 60°

*Application rules apply*
<table>
<thead>
<tr>
<th>Indoor Units Qty</th>
<th>12</th>
<th>16</th>
<th>20</th>
<th>25</th>
<th>29</th>
<th>33</th>
<th>37</th>
<th>41</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Number of Discharge Gas Pipe, Main Line in.</td>
<td>Ø3/8 (9.5) C1220T</td>
<td>Ø5/8 (15.9) C1220T (Brazing Connection)</td>
<td>Ø1/2 (12.7) C1220T</td>
<td>Ø3/4 (19.1) C1220T (Brazing Connection)</td>
<td>Ø1-1/8 (28.6) C1220T (Brazing Connection)</td>
<td>Ø1-3/8 (34.9) C1220T (Brazing Connection)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquid Pipe, Main Line in.</td>
<td>Ø3/8 (9.5)</td>
<td>Ø5/8 (15.9)</td>
<td>Ø1/2 (12.7)</td>
<td>Ø3/4 (19.1)</td>
<td>Ø1-1/8 (28.6)</td>
<td>Ø1-3/8 (34.9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated Heating Capacity BTU/h</td>
<td>75,000</td>
<td>100,000</td>
<td>126,000</td>
<td>150,000</td>
<td>176,000</td>
<td>200,000</td>
<td>226,000</td>
<td>250,000</td>
</tr>
<tr>
<td>Rated Cooling Capacity BTU/h</td>
<td>69,000</td>
<td>92,000</td>
<td>114,000</td>
<td>138,000</td>
<td>160,000</td>
<td>184,000</td>
<td>206,000</td>
<td>228,000</td>
</tr>
<tr>
<td>Maximum Equivalent Length Between IDU</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Revolutions per minute RPM</td>
<td>3600</td>
<td>3630</td>
<td>4470</td>
<td>4440</td>
<td>5190</td>
<td>4080</td>
<td>5190</td>
<td>4080</td>
</tr>
<tr>
<td>Sound Pressure dB(A)</td>
<td>58</td>
<td>61</td>
<td>65</td>
<td>63</td>
<td>64</td>
<td>66</td>
<td>58</td>
<td>61</td>
</tr>
<tr>
<td>REYQ72T</td>
<td>REYQ96T</td>
<td>REYQ120T</td>
<td>REYQ144T</td>
<td>REYQ168T</td>
<td>REYQ192T</td>
<td>REYQ216T</td>
<td>REYQ240T</td>
<td></td>
</tr>
<tr>
<td>Load Amps, RLA</td>
<td>66</td>
<td>66</td>
<td>66</td>
<td>66</td>
<td>66</td>
<td>66</td>
<td>66</td>
<td>66</td>
</tr>
</tbody>
</table>

For additional technical information please refer to specific Engineering Data Books.
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.
DETAILED OPERATION RANGES FOR VRV IV RXYQ T HEAT PUMP OUTDOOR UNITS

See the Engineering Data book for complete application rules.

LOW AMBIENT COOLING OPERATION FOR VRV IV RXYQ T SINGLE MODULE HEAT PUMP OUTDOOR UNITS

Cooling operation may be extended from 23°F ambient air temperature down to 10°F.

Cooling operation may be extended for single module heat pump systems under certain conditions. See the Engineering Data book for complete application rules, or contact your local Daikin representative for more information.


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.
### TECHNICAL DATA FOR VRV IV RXYQ_TATJU/TAYDU HEAT PUMP OUTDOOR UNITS

#### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>8 Ton</th>
<th>8 Ton</th>
<th>10 Ton</th>
<th>12 Ton</th>
<th>14 Ton</th>
<th>16 Ton</th>
<th>18 Ton</th>
<th>20 Ton</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>208-230V/3Ph/60Hz</td>
<td>RXYQ22TATJU</td>
<td>RXYQ208TATJU</td>
<td>RXYQ224TATJU</td>
<td>RXYQ240TATJU</td>
<td>RXYQ256TATJU</td>
<td>RXYQ272TATJU</td>
<td>RXYQ288TATJU</td>
</tr>
<tr>
<td></td>
<td>460V/3Ph/60Hz</td>
<td>RXYQ22TAYDU</td>
<td>RXYQ208TAYDU</td>
<td>RXYQ240TAYDU</td>
<td>RXYQ256TAYDU</td>
<td>RXYQ272TAYDU</td>
<td>RXYQ288TAYDU</td>
<td>RXYQ304TAYDU</td>
</tr>
</tbody>
</table>

#### Combination

- **Rated Cooling Capacity (BTU/h)**
  - 8 Ton: 69,000
  - 10 Ton: 92,000
  - 12 Ton: 114,000
  - 14 Ton: 138,000
  - 16 Ton: 158,000
  - 18 Ton: 164,000
  - 20 Ton: 210,000
- **Rated Heating Capacity (BTU/h)**
  - 8 Ton: 73,000
  - 10 Ton: 103,000
  - 12 Ton: 129,000
  - 14 Ton: 154,000
  - 16 Ton: 174,000
  - 18 Ton: 206,000
  - 20 Ton: 258,000
- **Minimum Circuit (ø1/2 in.)**
  - 8 Ton: 58
  - 10 Ton: 61
  - 12 Ton: 64
  - 14 Ton: 65
  - 16 Ton: 63
  - 18 Ton: 64
  - 20 Ton: 64
- **Internal Airflow (CFM)**
  - 8 Ton: 5,544
  - 10 Ton: 5,827
  - 12 Ton: 6,286
- **Flow of Indoor Units Qty**
  - 8 Ton: 1 x RXYQ72T
  - 10 Ton: 1 x RXYQ120T
  - 12 Ton: 1 x RXYQ144T
  - 14 Ton: 2 x RXYQ144T
  - 16 Ton: 1 x RXYQ168T
  - 18 Ton: 1 x RXYQ168T
  - 20 Ton: 2 x RXYQ168T

#### Performance

- **Refrigerant Charge (lbs.)**
  - 8 Ton: 13
  - 10 Ton: 22.7
  - 12 Ton: 22.9
  - 14 Ton: 18.1
- **Rated Heating Capacity (BTU/h)**
  - 8 Ton: 73,000
  - 10 Ton: 103,000
  - 12 Ton: 129,000
  - 14 Ton: 154,000
  - 16 Ton: 174,000
  - 18 Ton: 206,000
  - 20 Ton: 258,000
- **Rated Cooling Capacity (BTU/h)**
  - 8 Ton: 69,000
  - 10 Ton: 92,000
  - 12 Ton: 114,000
  - 14 Ton: 138,000
  - 16 Ton: 158,000
  - 18 Ton: 164,000
  - 20 Ton: 210,000

#### Compressor

- **Rotations per minute (RPM)**
  - 8 Ton: 7668
  - 10 Ton: 7650
  - 12 Ton: 7746
  - 14 Ton: 7008
  - 16 Ton: 7680
  - 18 Ton: 7668
  - 20 Ton: 7746
- **Fan ESP, Standard/Max in. Wg**
  - 8 Ton: 0.12 / 0.32
  - 10 Ton: 0.12 / 0.32
  - 12 Ton: 0.12 / 0.32
  - 14 Ton: 0.12 / 0.32
  - 16 Ton: 0.12 / 0.32
  - 18 Ton: 0.12 / 0.32
  - 20 Ton: 0.12 / 0.32

#### Refrigerant Piping Layout

- **Maximum Vertical Pipe Length Above Unit (ft.)**
  - 8 Ton: 164 (295 With Field Setting)
  - 10 Ton: 130 (295 With Field Setting)
  - 12 Ton: 100
  - 14 Ton: 540
  - 16 Ton: 620
  - 18 Ton: 3,280
  - 20 Ton: 3,280
- **Maximum Total Pipe Length (ft.)**
  - 8 Ton: 620
  - 10 Ton: 620
  - 12 Ton: 620
  - 14 Ton: 620
  - 16 Ton: 620
  - 18 Ton: 620
  - 20 Ton: 620
- **Connecting Piping Connections**
  - 8 Ton: Ø3/8 (9.5) C1220T (Brazing Connection)
  - 10 Ton: Ø1/2 (12.7) C1220T
  - 12 Ton: Ø1-1/8 (28.6) C1220T
  - 14 Ton: Ø1-3/8 (34.9) C1220T
  - 16 Ton: Ø1-5/8 (41.3) C1220T
  - 18 Ton: Ø1-3/8 (34.9) C1220T
  - 20 Ton: Ø1-5/8 (41.3) C1220T

#### Connection Ratio

- **Standard Connectable Indoor Unit Ratio (%)**
  - 8 Ton: 50 - 200
  - 10 Ton: 50 - 200
  - 12 Ton: 50 - 200
  - 14 Ton: 50 - 200
  - 16 Ton: 50 - 200
  - 18 Ton: 50 - 200
  - 20 Ton: 50 - 200
- **Maximum Number of Indoor Units Qty**
  - 8 Ton: 1
ds

### OPERATION RANGE FOR ALL VRV IV HEAT PUMP OUTDOOR UNITS

- **Cooling °F DB**
  - 10° - 122°
- **Heating °F WB**
  - -4° - 60°

*Application rules apply*
<table>
<thead>
<tr>
<th>Unit</th>
<th>Ratio</th>
<th>Connection</th>
<th>Connections</th>
<th>Piping, Layout</th>
<th>Piping, Refrigerant</th>
<th>Compressor</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Model 208-230V/3Ph/60Hz</td>
</tr>
<tr>
<td></td>
<td>Model</td>
<td>lbs.</td>
<td>lbs.</td>
<td>ft.</td>
<td>ft.</td>
<td>RPM</td>
<td>C1220T</td>
</tr>
<tr>
<td></td>
<td>208-230V/3Ph/60Hz</td>
<td>RXYQ72TATJU</td>
<td>RXYQ96TATJU</td>
<td>RXYQ120TATJU</td>
<td>RXYQ144TATJU</td>
<td>RXYQ168TATJU</td>
<td>RXYQ192TATJU</td>
</tr>
<tr>
<td>RXYQ244TATJU</td>
<td></td>
<td>435 / 451</td>
<td>525 / 553</td>
<td>528 / 556</td>
<td>695 + 695 / 709</td>
<td>19.6 / 20.3</td>
<td>66 - 11/16 × 36 - 11/16</td>
</tr>
<tr>
<td>RXYQ288TATJU</td>
<td></td>
<td>274,000</td>
<td>326,000</td>
<td>372,000</td>
<td>435 + 22.9 + 695</td>
<td>19.6 / 20.3</td>
<td>66 - 11/16 × 36 - 11/16</td>
</tr>
<tr>
<td>RXYQ322TATJU</td>
<td></td>
<td>296,000</td>
<td>342,000</td>
<td>396,000</td>
<td>356,000</td>
<td>18.5 / 20.6</td>
<td>66 - 11/16 × 36 - 11/6</td>
</tr>
<tr>
<td>RXYQ356TATJU</td>
<td></td>
<td>312,000</td>
<td>372,000</td>
<td>435,000</td>
<td>356,000</td>
<td>18.5 / 20.6</td>
<td>66 - 11/16 × 36 - 11/6</td>
</tr>
<tr>
<td>RXYQ380TATJU</td>
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<td>342,000</td>
<td>396,000</td>
<td>435,000</td>
<td>356,000</td>
<td>18.5 / 20.6</td>
<td>66 - 11/16 × 36 - 11/6</td>
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<td>RXYQ404TATJU</td>
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<td>372,000</td>
<td>435,000</td>
<td>435,000</td>
<td>356,000</td>
<td>18.5 / 20.6</td>
<td>66 - 11/16 × 36 - 11/6</td>
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<td>372,000</td>
<td>435,000</td>
<td>435,000</td>
<td>356,000</td>
<td>18.5 / 20.6</td>
<td>66 - 11/16 × 36 - 11/6</td>
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<tr>
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<td>396,000</td>
<td>435,000</td>
<td>435,000</td>
<td>356,000</td>
<td>18.5 / 20.6</td>
<td>66 - 11/16 × 36 - 11/6</td>
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<tr>
<td>RXYQ476TATJU</td>
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<td>435,000</td>
<td>435,000</td>
<td>435,000</td>
<td>356,000</td>
<td>18.5 / 20.6</td>
<td>66 - 11/16 × 36 - 11/6</td>
</tr>
<tr>
<td>RXYQ500TATJU</td>
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<td>435,000</td>
<td>435,000</td>
<td>435,000</td>
<td>356,000</td>
<td>18.5 / 20.6</td>
<td>66 - 11/16 × 36 - 11/6</td>
</tr>
</tbody>
</table>

For additional technical information please refer to specific Engineering Data Books.
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 technology\(^2\) 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 logic\(^2\) 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-SERIES WATER-COOLED CERTIFIED DATA, 208-230V/60HZ/3PH AND 460V/60HZ/3PH**

<table>
<thead>
<tr>
<th>Function</th>
<th>System Name</th>
<th>Tonnage</th>
<th>IEER Non-Ducted</th>
<th>IEER Ducted</th>
<th>IEER Mixed</th>
<th>SCHE Non-Ducted</th>
<th>SCHE Ducted (Heat Recovery only)</th>
<th>SCHE Mixed</th>
<th>EER Non-Ducted</th>
<th>EER Ducted</th>
<th>EER Mixed</th>
<th>COP @ 68°F Non-Ducted</th>
<th>COP @ 68°F Ducted</th>
<th>COP @ 68°F Mixed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Pump</td>
<td>RWEYG72PC</td>
<td>6 Tons</td>
<td>24.1</td>
<td>22.3</td>
<td>23.2</td>
<td>N/A</td>
<td>N/A</td>
<td>14.0</td>
<td>14.0</td>
<td>14.0</td>
<td>4.89</td>
<td>4.78</td>
<td>4.84</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RWEQ96T</td>
<td>8 Tons</td>
<td>30.8</td>
<td>25.4</td>
<td>28.1</td>
<td>N/A</td>
<td>N/A</td>
<td>19.6</td>
<td>15.4</td>
<td>17.5</td>
<td>6.27</td>
<td>5.8</td>
<td>6.035</td>
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<tr>
<td></td>
<td>RWEQ120T</td>
<td>10 Tons</td>
<td>29.4</td>
<td>23.5</td>
<td>26.45</td>
<td>N/A</td>
<td>N/A</td>
<td>16</td>
<td>13.8</td>
<td>14.8</td>
<td>6.1</td>
<td>5.55</td>
<td>5.63</td>
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<tr>
<td></td>
<td>RWEQ144T</td>
<td>12 Tons</td>
<td>24.3</td>
<td>19.8</td>
<td>22.05</td>
<td>N/A</td>
<td>N/A</td>
<td>15.4</td>
<td>12.6</td>
<td>14.0</td>
<td>6.01</td>
<td>5.33</td>
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<tr>
<td></td>
<td>RWEQ192T</td>
<td>16 Tons</td>
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<td>24.7</td>
<td>25.75</td>
<td>N/A</td>
<td>N/A</td>
<td>16.5</td>
<td>15.0</td>
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<td>5.92</td>
<td>5.82</td>
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<tr>
<td></td>
<td>RWEQ240T</td>
<td>20 Tons</td>
<td>25.7</td>
<td>22.7</td>
<td>25.4</td>
<td>N/A</td>
<td>N/A</td>
<td>14.8</td>
<td>12.6</td>
<td>14.0</td>
<td>5.84</td>
<td>5.65</td>
<td>5.78</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RWEQ284T</td>
<td>22 Tons</td>
<td>25.5</td>
<td>22.0</td>
<td>22.8</td>
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<td>14.7</td>
<td>12.3</td>
<td>13.8</td>
<td>5.68</td>
<td>5.72</td>
<td>5.65</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RWEQ320T</td>
<td>24 Tons</td>
<td>24.3</td>
<td>21.8</td>
<td>21.95</td>
<td>N/A</td>
<td>N/A</td>
<td>15.6</td>
<td>13.5</td>
<td>14.1</td>
<td>5.51</td>
<td>5.51</td>
<td>5.57</td>
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</tr>
<tr>
<td></td>
<td>RWEQ360T</td>
<td>28 Tons</td>
<td>23.5</td>
<td>20.9</td>
<td>21.15</td>
<td>N/A</td>
<td>N/A</td>
<td>15.7</td>
<td>13.3</td>
<td>13.8</td>
<td>5.48</td>
<td>5.48</td>
<td>5.52</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RWEQ408T</td>
<td>32 Tons</td>
<td>22.2</td>
<td>19.4</td>
<td>20.8</td>
<td>N/A</td>
<td>N/A</td>
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<td>RWEQ456T</td>
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<td>18.9</td>
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<td>36 Tons</td>
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<td>12.4</td>
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<td>18.7</td>
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</table>

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 T-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.

**DETAILED STANDARD OPERATION RANGES FOR VRV T-SERIES WATER-COOLED CONDENSING UNITS**

![Cooling Operation](chart1.png)

- **Cooling**
  - Indoor temperature (°F WB)
  - Outlet water temperature (°F)
- **Heating**
  - Indoor temperature (°F DB)
- **Cooling & Heating**
  - Indoor temperature (°F WB/°F DB)

See the Engineering Data book for complete application rules and extended geothermal operation ranges.
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

VRV T-SERIES WATER-COOLED UNIFIED HEAT PUMP AND HEAT RECOVERY

<table>
<thead>
<tr>
<th>Model</th>
<th>Name</th>
<th>Combination</th>
<th>Rated Cooling Capacity ² BTU/h</th>
<th>Rated Heating Capacity ² BTU/h</th>
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<tbody>
<tr>
<td>6 Ton</td>
<td>RWED72PTCJ</td>
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<td>12 Ton</td>
<td>RWED144TATJU</td>
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<td>16 Ton</td>
<td>RWED192TATJU</td>
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<tr>
<td>18 Ton</td>
<td>RWED216TATJU</td>
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<tr>
<td>20 Ton</td>
<td>RWED240TATJU</td>
<td>228,000</td>
<td>258,000</td>
<td></td>
</tr>
</tbody>
</table>

Sound Pressure Level @ 3 ft. (dBA) | 50 | 54 | 55 | 60.5 | 57 | 57.5 | 58 |

Performance


Liquid Pipe (Main Line) in. | 3/8 | 3/8 | 3/8 | 3/8 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/4 | 1-1/4 |


Water Side (Standard)

Maximum System Water Pressure (BPHE) psi | 285 | 464 |

Water Side (Geothermal)

Inlet Water Temperature Range Cooling °F | 27 - 113 | 23 - 113 |

Inlet Water Temperature Range Heating °F | 14 - 95 | 14 - 95 |

Water Flow Rate³ gpm | 21.2 - 39.6 | 21.2 - 39.6 |

Unit

Weight lbs. | 330 | 419 | 423 | 2 x 419 | 419 + 423 | 2 x 423 |

Dimensions (H x W x D) in. | 38-9/16 x 30-3/4 x 21-11/16 | 38-9/16 x 30-1/8 x 22-1/16 |

Electrical

Voltage Range (min - max) V | 208-230/3/60 |

Compressor: Daikin R-Type Scroll

Compressor Type | Daikin R-Type Scroll |

Compressor Rated Load Amps (RLA) A | 19 | 19 | 19 | 19 | 20.9 | 20.9 |

Compressor Capacity Control % | 100 | 100 | 100 | 100 | 100 | 100 |

Compressor Power kW | 20.9 | 20.9 |

Power V/ph/Hz | 208-230/3/60 |

Compressor Type | Daikin R-Type Scroll |

Some features and benefits may not be available for this model.

Please contact your local Daikin sales representative for more details.

¹Indoor temp., 80°FDB, 67°FWB/inlet water temp. 85°F/ Equivalent piping length : 25 ft., level difference : 0 ft.
²Indoor temp., 70°FDB, 60°FWB/inlet water temp. 70°F/ Equivalent piping length: 25 ft., level difference : 0 ft.
VRV Product Catalog

### OUTDOOR UNITS

<table>
<thead>
<tr>
<th>22 Ton</th>
<th>24 Ton</th>
<th>26 Ton</th>
<th>28 Ton</th>
<th>30 Ton</th>
<th>32 Ton</th>
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<tr>
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<td>RWEQ288TATJU</td>
<td>RWEQ312TATJU</td>
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<td>3 x RWEQ120TATJU</td>
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<td>3 x 1-1/4</td>
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<td>3 x 3/8</td>
<td>3 x 3/8</td>
<td>3 x 3/8</td>
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</tbody>
</table>

### Compressor

- **Capacity Control (%)**: 23 - 100, 16 - 100, 14 - 100, 11 - 100, 8 - 100, 8 - 100, 7 - 100
- **Ramp-Up**: 1 INV, 1 INV + 1 INV, 2 INV + 1 INV
- **Rated Load Amps (RLA)**: A 11.6, 19, 20.9, 29.4, 19 + 19, 19 + 20.9, 20.9 + 20.9
- **Minimum Circuit Amps (MCA)**: A 22.4, 28.8, 36.5, 44.6, 28.8 + 28.8, 28.8 + 36.5, 36.5 + 36.5
- **Maximum Overcurrent Protection (MOP)**: A 30, 35, 45, 50, 35 + 35, 35 + 45, 45 + 45

### Dimensions (H x W x D) in.

- 39-3/8 x 30-3/4 x 22-1/16

### Water Flow Rate gpm

- 21.2 - 39.6

### Range Heating °F

- 14 - 95

### Inlet Water Temperature

- 50 - 113

### Standard Inlet Water Temperature Range Cooling °F

- 50 - 113

### Pressure (BPHE) psi

- 284, 302

### Drain Pipe (Female Thread) in.

- 1/2, 3/8, 3/8, 3/8

### BPHE Outlet Pipe (Female Thread) in.

- 1-1/4, 1-1/4, 1-1/4, 1-1/4

### Maximum Number of Indoor Units Qty.

- 12, 16, 20, 25, 33, 37, 41

### Total Pipe Length ft.

- 980

### Actual Pipe Length (Equivalent Length) ft.

- 390 (459), 540 (623), 164 (130)

### Vertical Pipe Length ft. (if unit is below FCU)

- 164 (130)

### Sound Pressure Level @ 3 ft. dB(A)

- 50, 54, 55, 60.5, 57, 57.5, 58

### Power V/ph/Hz

- 208-230/3/60

### Weight lbs.

- 330, 419, 423, 423, 2 x 419, 419 + 423, 2 x 423

---

1. Varies based on indoor and condensing unit model selected; refer to Engineering Manual for details.
2. Please note that a water strainer (standard accessory for the T-series, field supplied for the PC-series) is required for each condensing unit model.
3. Application rules apply below 50°F. Please contact your local Daikin sales representative for design assistance and approval.
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 logic\(^2\) 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

**VRV T-SERIES WATER-COOLED UNIFIED HEAT PUMP AND HEAT RECOVERY**

<table>
<thead>
<tr>
<th>Model</th>
<th>Name</th>
<th>Combination</th>
<th>6 Ton</th>
<th>8 Ton</th>
<th>10 Ton</th>
<th>12 Ton</th>
<th>16 Ton</th>
<th>18 Ton</th>
<th>20 Ton</th>
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<td>RWEQ216TAYDU</td>
<td>RWEQ240TAYDU</td>
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</tr>
</tbody>
</table>

**Performance**
- Rated Cooling Capacity\(^1\) BTU/h
- Rated Heating Capacity\(^1\) BTU/h
- Power V/Hz
- Sound Pressure Level @ 3 ft. dBA

**Refrigerant Piping**
- System Configuration: Heat Pump, Heat Recovery: HR
- Liquid Pipe (Main Line) in.
- Discharge Gas Pipe (Main Line) in.
- Vertical Pipe Length (if unit is below FCU) ft.
- Actual Pipe Length (Equivalent Length) ft.

**Connection Ratio**
- Standard Connectable Indoor Unit Ratio %

**Water Side (Standard)**
- Standard Inlet Water Temperature Cooling °F
- Standard Inlet Water Temperature Range Heating °F
- Recommended Inlet Water Flow Rate per Module (minimum) gpm

**Water Side (Geothermal)**
- Inlet Water Temperature Range Cooling °F
- Inlet Water Temperature Range Heating °F
- Water Flow Rate gpm

**Unit**
- Dimensions (H x W x D) in.

**Electrical**
- Voltage Range (min - max) V
- Maximum Overcurrent Protection (MOP) A
- Minimum Circuit Amps (MCA) A
- Compressor Type Daikin K-Type Scroll

**Compressor**
- Compressor Set-Up 1 INV
- Compressor Capacity Control %

**Other**
- Compressor Rated Load Amps (RLA) A
- Minimum Circuit Amps (MCA) A

---

\(^1\) Indoor temp.: 80°FDB, 67°FWB/inlet water temp.: 85°F / Equivalent piping length : 25 ft., level difference : 0 ft.
\(^2\) Indoor temp.: 70°FDB, 60°FWB/inlet water temp.: 70°F / Equivalent piping length : 25 ft., level difference : 0 ft.

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www.daikincomfort.com
Please contact your local Daikin sales representative for more details.

Some features and benefits may not be available for this model.

**Compressor**

- Daikin G-Type Scroll
- Daikin K-Type Scroll

**Electrical Unit**

- **(Geothermal)**
- **(Standard)**

**Water Side Connection**

**Ratio**

- **Refrigerant Piping**

**Performance**

**Model**

VRV T-SERIES WATER-COOLED UNIFIED HEAT PUMP AND HEAT RECOVERY

**Compressor Type**

- Daikin G-Type Scroll
- Daikin K-Type Scroll

**Voltage Range (min - max)**

- V 414 - 506

**Weight lbs.**

- 2 x 426
- 426 + 430
- 2 x 430

**Rated Cooling Capacity² BTU/h**

- 69,000
- 92,000
- 114,000
- 138,000
- 184,000
- 206,000
- 228,000

**Compressor Capacity Control %**

- 23 - 100
- 16 - 100
- 14 - 100
- 11 - 100
- 8 - 100

**Compressor Set-Up**

- 1 INV
- 1 INV + 1 INV

**Compressor Rated Load Amps (RLA)**

- 5.3
- 8.6
- 9.4
- 13.3

**Minimum Circuit Amps (MCA)**

- 10.2
- 13
- 16.5
- 20.2

**Maximum Overcurrent Protection (MOP)**

- 15
- 20
- 25
- 30

**Dimensions (H x W x D) in.**

- 39-3/8 x 30-3/4 x 22-1/16

**Water Flow Rate5 gpm**

- 21.2 - 39.6

**Recommended Inlet Water Flow Rate per Module (minimum)**

- 13.2 ~ 39.6

**Recommended Inlet Water Temperature Range Heating °F**

- 50 - 113

**Standard Inlet Water Temperature Range Cooling °F**

- 50 - 113

**Pressure (BPHE) psi**

- 284
- 536.6

**BPHE Outlet Pipe (Female Thread) in.**

- 1-1/4

**Maximum Number of Indoor Units Qty.**

- 12
- 16
- 20
- 25
- 33
- 37
- 41

**Rated Heating Capacity 3 BTU/h**

- 77,000
- 103,000
- 129,000
- 154,000
- 206,000
- 232,000
- 258,000

**Sound Pressure Level @ 3 ft. dB(A)**

- 50
- 54
- 55
- 60.5

**Power V/ph/Hz**

- 460/3/60

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

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

VRV Product Catalog
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.
**DETAILED OPERATION RANGES FOR VRV IV-S (RXTQ_TAVJU) HEAT PUMP OUTDOOR UNITS**

**CERTIFIED PERFORMANCE DATA**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Indoor Units Combination</th>
<th>Nominal Cooling Capacity (BTU/h)</th>
<th>EER 95F</th>
<th>SEER</th>
<th>Nominal Heating Capacity (BTU/h)</th>
<th>Heating COP @ 47 °F</th>
<th>Low Heating Capacity (BTU/h)</th>
<th>Heating COP @ 17 °F</th>
<th>HSPF</th>
</tr>
</thead>
<tbody>
<tr>
<td>RXTQ36TAVJU</td>
<td>Non-Ducted Indoor Units</td>
<td>36,000</td>
<td>12.0</td>
<td>18.0</td>
<td>40,000</td>
<td>4.18</td>
<td>23,600</td>
<td>3.0</td>
<td>10.3</td>
</tr>
<tr>
<td></td>
<td>Ducted Indoor Units</td>
<td>36,000</td>
<td>10.0</td>
<td>16.0</td>
<td>40,000</td>
<td>3.30</td>
<td>22,000</td>
<td>2.5</td>
<td>9.0</td>
</tr>
<tr>
<td></td>
<td>Mixed Ducted and Non-Ducted Indoor Units</td>
<td>36,000</td>
<td>11.0</td>
<td>17.0</td>
<td>40,000</td>
<td>3.70</td>
<td>22,800</td>
<td>2.8</td>
<td>9.7</td>
</tr>
<tr>
<td>RXTQ48TAVJU</td>
<td>Non-Ducted Indoor Units</td>
<td>48,000</td>
<td>10.3</td>
<td>18.0</td>
<td>52,000</td>
<td>4.00</td>
<td>32,200</td>
<td>3.0</td>
<td>10.0</td>
</tr>
<tr>
<td></td>
<td>Ducted Indoor Units</td>
<td>48,000</td>
<td>9.4</td>
<td>16.0</td>
<td>52,000</td>
<td>3.35</td>
<td>32,000</td>
<td>2.7</td>
<td>9.0</td>
</tr>
<tr>
<td></td>
<td>Mixed Ducted and Non-Ducted Indoor Units</td>
<td>48,000</td>
<td>9.85</td>
<td>17.0</td>
<td>52,000</td>
<td>3.88</td>
<td>32,100</td>
<td>2.9</td>
<td>9.5</td>
</tr>
<tr>
<td>RXTQ60TAVJU</td>
<td>Non-Ducted Indoor Units</td>
<td>57,500</td>
<td>9.8</td>
<td>18.0</td>
<td>57,500</td>
<td>4.30</td>
<td>37,000</td>
<td>3.2</td>
<td>10.5</td>
</tr>
<tr>
<td></td>
<td>Ducted Indoor Units</td>
<td>57,500</td>
<td>9.2</td>
<td>16.0</td>
<td>57,500</td>
<td>3.70</td>
<td>34,000</td>
<td>2.7</td>
<td>10.5</td>
</tr>
<tr>
<td></td>
<td>Mixed Ducted and Non-Ducted Indoor Units</td>
<td>57,500</td>
<td>9.5</td>
<td>17.0</td>
<td>57,500</td>
<td>4.00</td>
<td>35,500</td>
<td>3.0</td>
<td>10.5</td>
</tr>
</tbody>
</table>

**VRV IV-S SERIES**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Fan Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>RXTQ36TAVJU</td>
<td>Single Fan</td>
</tr>
<tr>
<td>RXTQ48TAVJU</td>
<td>Single Fan</td>
</tr>
<tr>
<td>RXTQ60TAVJU</td>
<td>Double Fan</td>
</tr>
</tbody>
</table>

**Performance**

- Nominal Cooling Capacity: BTU/h
- Nominal Heating Capacity: BTU/h
- Operation Range Cooling: °F DB
- Operation Range Heating: °F WB
- Power: Vp/Hz
- Sound Pressure Level @ 3ft: dB(A)

**Refrigerant Piping**

- Refrigerant: R-410A
- Refrigerant Quantity: lbs
- Liquid Pipe (Main Line): in
- Suction Gas Pipe (Main Line): in
- Vertical Pipe Length: ft
- Maximum vertical pipe length between IDU: ft
- Actual Pipe Length (Equivalent Length): ft
- Total Piping Length: ft

**Connection Ratio**

- Connectable Indoor Unit Ratio: %
- Number of Indoor Units: Qty

**Unit**

- Outdoor Unit Size: (HxWxD)
- Weight: lbs
- Airflow: CFM
- Fan Motor Output and Quantity: kW
- Maximum Over Current Protection (MOP): A
- Minimum Circuit Amps (MCA): A
- Rated Load Amps (RLA): A

**Electrical**

**Compressor**

- Compressor Type: Type
- Capacity Control: %

**DETAILED OPERATION RANGES FOR VRV IV-S (RXTQ_TAVJU) HEAT PUMP OUTDOOR UNITS**

![Diagram of operation ranges for VRV IV-S (RXTQ_TAVJU) heat pump outdoor units]
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.

NOTE: If more units are to be installed than are shown in Section 3, your layout should take account of the possibility of short circuiting.

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

VRV 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

Unit values are in inches
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**

<table>
<thead>
<tr>
<th>Maximum allowable piping length</th>
<th>ACTUAL PIPING LENGTH</th>
<th>EXAMPLE</th>
<th>EQUIVALENT PIPING LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VRV IV X / VRV IV / VRV AURORA</td>
<td>VRV IV-S</td>
<td>VRV IV X / VRV IV / VRV AURORA</td>
</tr>
<tr>
<td>Refrigerant piping length</td>
<td>541 ft.</td>
<td>230 ft.</td>
<td>623 ft.</td>
</tr>
<tr>
<td>Total piping length</td>
<td>3281 ft. (AURORA: 1640 ft.)</td>
<td>984 ft.</td>
<td>213 ft.</td>
</tr>
<tr>
<td>Between the first indoor unit branch and the farthest indoor unit</td>
<td>295 ft.</td>
<td>98 ft.</td>
<td>49 ft. (3-Ton: 33 ft.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum allowable level difference</th>
<th>EXAMPLE</th>
<th>VRV IV X / VRV IV / VRV AURORA</th>
<th>VRV IV-S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between the outdoor units (multiple use on the same circuit)</td>
<td>16 ft.</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Between the indoor units</td>
<td>98 ft.</td>
<td>33</td>
<td>49</td>
</tr>
<tr>
<td>Between the outdoor units and the indoor unit</td>
<td>If the outdoor unit is above 295 ft.</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>If the outdoor unit is below 295 ft.</td>
<td>98</td>
<td>98</td>
<td></td>
</tr>
</tbody>
</table>

*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: 540 ft. (equivalent piping length: 623 ft.)

### REFRIGERANT PIPING LIMITATIONS

<table>
<thead>
<tr>
<th>Limitations</th>
<th>Limitations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linear piping between condensing unit and furthest located fan coil unit (equivalent), ft.</td>
<td>540 (623)</td>
</tr>
<tr>
<td>Total “one-way” piping in the complete piping network, ft.</td>
<td>980</td>
</tr>
<tr>
<td>Vertical (height) separation between the condensing unit and the fan coil units (if condensing unit is below)*, ft.</td>
<td>164 (130)</td>
</tr>
<tr>
<td>Vertical (height) separation between fan coil units, ft.</td>
<td>98</td>
</tr>
<tr>
<td>Linear piping between 1st REFNET and furthest located fan coil unit, ft.</td>
<td>130 (295)**</td>
</tr>
</tbody>
</table>

* Conditions apply when the condenser is lower than indoor units. Refer to your local Daikin representative for further information.
** Conditions/rules apply. Refer to Installation manual for further details.
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.

Daikin’s branch selector boxes are ideal for spaces that require individual heating and cooling control.
### Technical Data for Single-Port Branch Selector Boxes

<table>
<thead>
<tr>
<th>Model</th>
<th>BSQ36TVJ</th>
<th>BSQ60TVJ</th>
<th>BSQ96TVJ</th>
<th>BS10G54TVJ</th>
<th>BS12G54TVJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of branches</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Maximum capacity index</td>
<td>36</td>
<td>60</td>
<td>96</td>
<td>54</td>
<td>54</td>
</tr>
<tr>
<td>Maximum connectable indoor units</td>
<td>4</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Connecting Pipes

<table>
<thead>
<tr>
<th>IU</th>
<th>Liquid in.</th>
<th>Ø1/4, Ø3/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>IU</td>
<td>Gas in.</td>
<td>Ø1/2, Ø5/8</td>
</tr>
<tr>
<td>IU</td>
<td>Suction Gas in.</td>
<td>Ø1/2, Ø5/8</td>
</tr>
<tr>
<td>IU</td>
<td>HP/LP Gas in.</td>
<td>Ø3/4</td>
</tr>
</tbody>
</table>

#### Electrical

- Power Supply ph/V/Hz: 1/208-230/60
- Maximum Overcurrent Protection, MOP A: 15
- Minimum Circuit Amps, MCA A: 0.6, 0.8, 1, 1.2
- Mass (Weight) lbs: 27, 27, 33
- Dimensions (H x W x D) in: 8-1/8 x 15-1/4 x 12-13/16

---

### Technical Data for Multi-Port Branch Selector Boxes

<table>
<thead>
<tr>
<th>Model</th>
<th>BS4054TVJ</th>
<th>BS6054TVJ</th>
<th>BS8054TVJ</th>
<th>BS10G54TVJ</th>
<th>BS12G54TVJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of branches</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Maximum capacity index per branch</td>
<td>54</td>
<td>54</td>
<td>54</td>
<td>54</td>
<td>54</td>
</tr>
<tr>
<td>Maximum connectable indoor units per branch</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

#### Connecting Pipes

<table>
<thead>
<tr>
<th>IU</th>
<th>Liquid in.</th>
<th>Ø1/4, Ø3/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>IU</td>
<td>Gas in.</td>
<td>Ø1/2, Ø5/8</td>
</tr>
<tr>
<td>IU</td>
<td>Suction Gas in.</td>
<td>Ø1/2, Ø5/8</td>
</tr>
<tr>
<td>IU</td>
<td>HP/LP Gas in.</td>
<td>Ø3/4</td>
</tr>
</tbody>
</table>

#### Electrical

- Power Supply ph/V/Hz: 1/208-230/60
- Maximum Overcurrent Protection, MOP A: 15
- Minimum Circuit Amps, MCA A: 0.6, 0.8, 1, 1.2
- Mass (Weight) lbs: 49, 68, 73, 101, 106
- Dimensions (H x W 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 32-5/16 x 18-15/16

---

### Single-Port Branch Selector Box Installation Space

#### Minimum Clearance

<table>
<thead>
<tr>
<th>Model</th>
<th>BSQ36TVJ</th>
<th>BSQ60TVJ</th>
<th>BSQ96TVJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>A in.</td>
<td>10</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>B in.</td>
<td>10</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>C in.</td>
<td>-</td>
<td>13-3/4</td>
<td>15-3/4</td>
</tr>
<tr>
<td>D in.</td>
<td>12</td>
<td>13-3/4</td>
<td>15-3/4</td>
</tr>
<tr>
<td>E in.</td>
<td>12</td>
<td>12</td>
<td>11-13/16</td>
</tr>
</tbody>
</table>

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

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

**VRV IV Heat Pump / VRV AURORA™ Heat Pump**

<table>
<thead>
<tr>
<th>OPTIONAL ACCESSORIES</th>
<th>RXYQ120T RXYQ114T RXYQ168T RXYQ1612T</th>
<th>RXYQ120T RXYQ114T RXYQ168T RXYQ1612T</th>
<th>RXYQ120T RXYQ114T RXYQ168T RXYQ1612T</th>
<th>RXYQ120T RXYQ114T RXYQ168T RXYQ1612T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distributed piping</td>
<td>REFNET Header</td>
<td>REFNET Header</td>
<td>REFNET Header</td>
<td>REFNET Header</td>
</tr>
<tr>
<td></td>
<td>KHRP26M22H (max. 4 branch)</td>
<td>KHRP26M22H (max. 4 branch)</td>
<td>KHRP26M22H (max. 4 branch)</td>
<td>KHRP26M22H (max. 4 branch)</td>
</tr>
<tr>
<td></td>
<td>KHRP26M33H (max. 8 branch)</td>
<td>KHRP26M33H (max. 8 branch)</td>
<td>KHRP26M33H (max. 8 branch)</td>
<td>KHRP26M33H (max. 8 branch)</td>
</tr>
<tr>
<td>REFNET joint</td>
<td>KHRP26A22T, KHRP26A33T</td>
<td>KHRP26A22T, KHRP26A33T, KHRP26M72TU</td>
<td>KHRP26A22T, KHRP26A33T, KHRP26M72TU</td>
<td>KHRP26A22T, KHRP26A33T, KHRP26M72TU</td>
</tr>
<tr>
<td>Outdoor unit multi connection piping kit</td>
<td>—</td>
<td>BHFP22P100U</td>
<td>BHFP22P150U</td>
<td>BHFP22P150U</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>OPTIONAL ACCESSORIES</th>
<th>REYQ120T REYQ114T REYQ168T RELQ120T</th>
<th>REYQ120T REYQ114T REYQ168T RELQ120T</th>
<th>REYQ120T REYQ114T REYQ168T RELQ120T</th>
<th>REYQ120T REYQ114T REYQ168T RELQ120T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distributed piping</td>
<td>REYQ22T REYQ216T REYQ240T REYQ288T</td>
<td>REYQ22T REYQ216T REYQ240T REYQ288T</td>
<td>REYQ22T REYQ216T REYQ240T REYQ288T</td>
<td>REYQ22T REYQ216T REYQ240T REYQ288T</td>
</tr>
<tr>
<td></td>
<td>RELQ22T RELQ216X RELQ240X RELQ288X</td>
<td>RELQ22T RELQ216X RELQ240X RELQ288X</td>
<td>RELQ22T RELQ216X RELQ240X RELQ288X</td>
<td>RELQ22T RELQ216X RELQ240X RELQ288X</td>
</tr>
<tr>
<td>REFNET header</td>
<td>KHRP25M33H (max. 8 branch)</td>
<td>KHRP25M33H (max. 8 branch)</td>
<td>KHRP25M33H (max. 8 branch)</td>
<td>KHRP25M33H (max. 8 branch)</td>
</tr>
<tr>
<td></td>
<td>KHRP25M72H (max. 8 branch)</td>
<td>KHRP25M72H (max. 8 branch)</td>
<td>KHRP25M72H (max. 8 branch)</td>
<td>KHRP25M72H (max. 8 branch)</td>
</tr>
<tr>
<td>Outdoor unit multi connection piping kit</td>
<td>—</td>
<td>BHFP22P100U</td>
<td>BHFP22P150U</td>
<td>BHFP22P150U</td>
</tr>
</tbody>
</table>
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 DIMENSIONS (H X W X D)
--- | --- | ---
VRV4HGS-K1 | 1 | Right Panel: 45½" x 26" x 4"  
VRV4HGL-K1 | 1 | Left Panel: 45½" x 12½" x 4"  
VRV4HGS-K1 | 2 | Front Panel: 45½" x 13½" x 4"  
VRV4HGL-K1 | 3 | Front Panel: 45½" x 32½" 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.
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-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.
### ELECTRONIC EXPANSION VALVE BOX SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
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<tr>
<td>18,000</td>
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<tr>
<td>17,000-21,000</td>
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<td>27,000-34,500</td>
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<td>in³</td>
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<td>127-161</td>
<td>162-201</td>
<td>202-251</td>
<td>252-281</td>
<td>282-402</td>
<td>403-503</td>
<td>564-804</td>
<td>806-1006</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height in</td>
<td>15-3/4</td>
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<td></td>
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<td></td>
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<td></td>
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<td>Width in</td>
<td>8-1/2</td>
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<td></td>
<td></td>
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<tr>
<td>Pipe Connections in</td>
<td>1/2 x 1/4</td>
<td>3/8 x 5/8</td>
<td>3/4 x 3/8</td>
<td>7/8 x 3/8</td>
<td>1-1/8 x 1/2</td>
<td>1-1/8 x 5/8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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
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 Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>EKEQMCAV3-US (Z-Control)</th>
<th>EKEQFCAV3-US (W-Control)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entering Air Temperature Limits</td>
<td>Cooling °F: 57 WB - 77 WB</td>
<td>95 DB/77 WB</td>
</tr>
<tr>
<td></td>
<td>Heating °F: 50 DB - 80 DB</td>
<td>Min. of 50 DB</td>
</tr>
<tr>
<td>Power Supply V/ph/Hz</td>
<td>208-230/1/60</td>
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</tr>
<tr>
<td>Weight lbs.</td>
<td>8</td>
<td>8.6</td>
</tr>
<tr>
<td>Height in.</td>
<td>5-13/64</td>
<td></td>
</tr>
<tr>
<td>Width in.</td>
<td>15-3/4</td>
<td></td>
</tr>
<tr>
<td>Depth in.</td>
<td>9-3/8</td>
<td></td>
</tr>
<tr>
<td>Connection Ratio</td>
<td>50 - 110%</td>
<td>90 - 110%</td>
</tr>
<tr>
<td>Max Piping Distance</td>
<td>EKEXV to AHU: 16 ft.</td>
<td>16 ft.</td>
</tr>
<tr>
<td></td>
<td>ODU to AHU: 164 ft.</td>
<td>164 ft.</td>
</tr>
<tr>
<td>Max number of IDU/system</td>
<td>VRV IV HP (RXYQ_TATJU/TAYDU)</td>
<td>Not available</td>
</tr>
<tr>
<td></td>
<td>VRV IV HR (REYQ_TATJU/TAYDU)</td>
<td>Not available</td>
</tr>
<tr>
<td></td>
<td>VRV T-Series Water-Cooled (RWEQ_TATJU/TAYDU)</td>
<td>Not available</td>
</tr>
<tr>
<td></td>
<td>VRV III PC (REYQ_PCTJ/PCYD)</td>
<td>Not available</td>
</tr>
<tr>
<td></td>
<td>VRV IV S (RXTQ_TAVJUU)</td>
<td>Not available</td>
</tr>
<tr>
<td></td>
<td>Heat pump configuration only</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### Compatibility Matrix

<table>
<thead>
<tr>
<th>Compatibility Matrix</th>
<th>EKEQMCAV3-US (Z-Control)</th>
<th>EKEQFCAV3-US (W-Control)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRV IV HP (RXYQ_TATJU/TAYDU)</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>VRV IV HR (REYQ_TATJU/TAYDU)</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>VRV T-Series Water-Cooled (RWEQ_TATJU/TAYDU)</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>VRV III PC (REYQ_PCTJ/PCYD)</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>VRV IV S (RXTQ_TAVJUU)</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Heat pump configuration only</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VRV Product Catalog

121
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.

Daikin’s air treatment systems — creating a better air quality environment.
<table>
<thead>
<tr>
<th>OUTSIDE AIR PROCESSING UNIT, FXMQ_MFVJU</th>
<th>ENERGY RECOVERY VENTILATOR, VAM_GVJU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant Piping</td>
<td>Connectable</td>
</tr>
<tr>
<td>VRV Control Wiring</td>
<td>Connectable</td>
</tr>
<tr>
<td>High Efficiency Filter (MERV 8 and MERV 13)</td>
<td>Option</td>
</tr>
<tr>
<td>Ventilation System</td>
<td>Air supply</td>
</tr>
<tr>
<td>Power Supply</td>
<td>V/ph/Hz</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>CFM</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>4 TON</th>
<th>6 TON</th>
<th>8 TON</th>
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</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>V/ph/Hz</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
</tr>
<tr>
<td>Rated Cooling Capacity</td>
<td>BTU/h</td>
<td>48,000</td>
<td>72,000</td>
</tr>
<tr>
<td>Rated Heating Capacity</td>
<td>BTU/h</td>
<td>30,000</td>
<td>47,000</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>CFM</td>
<td>635</td>
<td>988</td>
</tr>
<tr>
<td>Weight</td>
<td>lbs.</td>
<td>190</td>
<td>271</td>
</tr>
<tr>
<td>Height</td>
<td>in.</td>
<td>18-1/2</td>
<td>25-9/16</td>
</tr>
<tr>
<td>Width</td>
<td>in.</td>
<td>29-1/4</td>
<td>34-3/8</td>
</tr>
<tr>
<td>Depth</td>
<td>in.</td>
<td>43-5/16</td>
<td>54</td>
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<tr>
<td>Sound Pressure</td>
<td>dB(A)</td>
<td>42</td>
<td>47</td>
</tr>
<tr>
<td>Discharge Air Temp. - Cooling</td>
<td>°F</td>
<td>68 DB/59 WB - 109 DB/90 WB</td>
<td></td>
</tr>
<tr>
<td>Discharge Air Temp. - Heating</td>
<td>°F</td>
<td>55-77</td>
<td></td>
</tr>
<tr>
<td>Nominal Conditions: Cooling Mode</td>
<td>Discharge Set Temperature: 64 °F DB Outdoor: 91 °F DB, 62 °F WB (68% RH) Level Difference: 0 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal Conditions: Heating Mode</td>
<td>Discharge Set Temperature: 77 °F DB Outdoor: 32 °F DB, 27 °F WB (50% RH) Level Difference: 0 ft.</td>
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**FXMQ_MFVJU ACCESSORIES**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>FXMQ48MFVJU</th>
<th>FXMQ72MFVJU</th>
<th>FXMQ96MFVJU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navigation™ Remote Controller</td>
<td>BRC1E73</td>
<td>BRC1E73</td>
<td>BRC1E73</td>
</tr>
<tr>
<td>Wireless Remote Controller</td>
<td>BRC1C82</td>
<td>BRC1C82</td>
<td>BRC1C82</td>
</tr>
<tr>
<td>Remote Sensor Kit</td>
<td>KRP1C71</td>
<td>KRP1C71</td>
<td>KRP1C71</td>
</tr>
<tr>
<td>Wiring Adaptor PCB (interface with aux (primary heater, humidifier, OA damper/fan)</td>
<td>KRP4A71</td>
<td>KRP4A71</td>
<td>KRP4A71</td>
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<tr>
<td>Group Control Adaptor PCB (connects to external BMS)</td>
<td>DACM-M048F131K</td>
<td>DACM-M048F131K</td>
<td>DACM-M048F131K</td>
</tr>
<tr>
<td>High Efficiency Filter Kit (MERV 13)</td>
<td>DACM-M048F-8-1K</td>
<td>DACM-M048F-8-1K</td>
<td>DACM-M048F-8-1K</td>
</tr>
</tbody>
</table>

**FXMQ_MFVJU INSTALLATION SPACE**

Discharge Side

Suction Side

Ceiling

2.5" or more

2.5" or more

25-9/16" or more

Note: Specifications are subject to change without notice.
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

Heat exchanger with high temperature and enthalpy efficiency

Applications
» Hotel/conference centers
» Schools
» Retail shopping centers
» Large open- plan offices
» Churches
## VAM SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Airflow</th>
<th>VAM300GVJU</th>
<th>VAM470GVJU</th>
<th>VAM600GVJU</th>
<th>VAM1200GVJU</th>
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<tbody>
<tr>
<td><strong>Temperature Recovery Efficiency Percentage</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling 100 %</td>
<td></td>
<td>85</td>
<td>68</td>
<td>72</td>
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<tr>
<td>Heating 75 %</td>
<td></td>
<td>70</td>
<td>72</td>
<td>74</td>
<td>70</td>
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<tr>
<td>Cooling 75 %</td>
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<td>69</td>
<td></td>
<td>73</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heating 75 %</td>
<td>69</td>
<td></td>
<td>73</td>
<td></td>
</tr>
<tr>
<td><strong>Enthalpy Recovery Efficiency Percentage</strong></td>
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<tr>
<td>Cooling 100 %</td>
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<td>40</td>
<td>65</td>
<td>49</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>Cooling 75 %</td>
<td>48</td>
<td>65</td>
<td>49</td>
<td>49</td>
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<td>Heating 75 %</td>
<td>57</td>
<td>65</td>
<td>60</td>
<td>60</td>
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<tr>
<td><strong>Power Supply</strong></td>
<td>V/jph/Hz</td>
<td>208-230/1/60</td>
<td></td>
<td></td>
<td>1,200/1,200/930</td>
</tr>
<tr>
<td>Airflow Rate (H/M/L)</td>
<td></td>
<td>Heat Exchange Mode</td>
<td>CFM</td>
<td>300/300/170</td>
<td>470/470/390</td>
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<tr>
<td></td>
<td>Bypass Mode</td>
<td></td>
<td>300/300/170</td>
<td>470/470/390</td>
<td>600/600/500</td>
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<td>Weight lbs.</td>
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<td>148</td>
<td>346</td>
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<td>Height in.</td>
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<td>15-1/4</td>
<td>15-1/4</td>
<td>30-7/8</td>
</tr>
<tr>
<td>Width in.</td>
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<td>34-5/8</td>
<td>47-1/16</td>
<td>63-3/4</td>
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</tr>
<tr>
<td>Depth in.</td>
<td></td>
<td>31-1/2</td>
<td>32-3/4</td>
<td>47-1/16</td>
<td></td>
</tr>
<tr>
<td>Sound Pressure (H/M/L)</td>
<td></td>
<td>37/33.5/25.5</td>
<td>42/38.5/35</td>
<td>42.5/39/36</td>
<td>44.5/41.5/38.5</td>
</tr>
<tr>
<td>External Static Pressure (H/M/L)</td>
<td></td>
<td>0.84/0.25/0.18</td>
<td>0.75/0.39/0.33</td>
<td>0.76/0.34/0.32</td>
<td>0.56/0.24/0.16</td>
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<tr>
<td>External Finish</td>
<td></td>
<td>Galvanized Steel Plate</td>
<td>Self-Extinguishing Urethane Foam</td>
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<tr>
<td>Connection Duct Diameter</td>
<td></td>
<td>in. 8</td>
<td>10</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Ambient Conditions</td>
<td></td>
<td>A</td>
<td></td>
<td></td>
<td>5°F ~ 122°F</td>
</tr>
</tbody>
</table>

## VAM-GVJU INSTALLATION EXAMPLE

![Energy Recovery Ventilator (Top View)](image)

![Diagram of installation example]
Seamless Integration with VRV Systems

Daikin DVS Dedicated Outside Air System (DVS - DOAS AHU) is designed for seamless integration with VRV air-cooled 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 OUTSIDE AIR

<table>
<thead>
<tr>
<th>Model Name</th>
<th>DVSVO5 with ERW</th>
<th>DVSVO10 with ERW</th>
<th>DVSVO12 with ERW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Air Flow</td>
<td>CFM</td>
<td>1,000 (670 - 1,350)</td>
<td>2,000 (1,600 - 2,650)</td>
</tr>
<tr>
<td>Nominal Cooling Capacity</td>
<td>BTU/h</td>
<td>41,000</td>
<td>73,000</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>in.</td>
<td>103 x 71 x 41</td>
<td>133 x 75 x 57</td>
</tr>
<tr>
<td>Weight1</td>
<td>lbs.</td>
<td>1,287</td>
<td>2,266</td>
</tr>
<tr>
<td>Electrical</td>
<td>3-Phase 208V, 3-phase 230V or 3-Phase 460V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refrigerant</td>
<td>Type</td>
<td>R410A</td>
<td></td>
</tr>
<tr>
<td>Auxiliary heater</td>
<td>Gas furnace</td>
<td>MBH</td>
<td>80 / 120 / 160</td>
</tr>
<tr>
<td>Electric heater (kW)</td>
<td>6 / 12 / 18 / 30</td>
<td>36 / 6 / 54</td>
<td>36 / 54 / 72</td>
</tr>
</tbody>
</table>

1 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?

### Zone Controllers
- Navigation™ Remote Controller (BRC1E73)
- Simplified Remote Controller (BRC2A71)
- Wireless Remote Controller
- DKN Cloud Wi-Fi Adaptor

### Multi-Zone Controllers
- iTM™ (DCM601A71)
- iTC™ (DCS601C71)
- Central Remote Controller (DCS302C71)
- Unified On/Off Controller (DCS301C71)
- Schedule Timer (DST301BA61)

### Interface Solutions
- iTM (DCM601A71) + BACnet® Gateway Option (DCM014A51)
- Interface for use in BACnet® (DMS502B71)
- Interface for use in LonWorks® (DMS504C71)
- DIII-Net/Modbus® Adaptor (DTA116A51)

### External Equipment Control
- iTM (DCM601A71) + BACnet® Client Option (DCM009A51)
- WAGO® I/O
- Daikin WAGO® BACnet®/IP Controller (750-831)

### Adaptors
- Wiring Adaptor (KRP1C74/75)
- External Control Adaptor (DTA104A53)
- RA Interface Adaptor (KRP928BB2S)
Daikin controls offer comfort control in an easily managed and operated system.
VRV Control Systems Overview

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

Note: BACnet is a registered trademark of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). LonWorks is a trademark of Echelon Corporation registered in the United States and other countries. Modbus is a registered trademark of Modicon.
DIII-NET
(Communications Transmission)
DIII-NET, Daikin’s unique communication transmission system, links indoor units and various other building equipment – in accordance with applications, scale and conditions and transmits vast amounts of information between them.

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

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

Building services equipment:
» Sensors
» Ventilation Equipment
» Building Lights
» Pump
» Valve

Complete Control of External Equipment with Custom Programming

WAGO® I/O
BACnet®/IP
Daikin WAGO BACnet/IP Controller (750-831)

Navigation™ Remote Controller (BRC1E73)
DKN Cloud Wi-fi Adaptor
Simplified Remote Controller (BRC2A71)
Wireless Remote Controller

RA Interface Adaptor
(KRP92BB2S)

VRV Indoor Unit
Zone Controllers

ERV

SkyAir

Mini-Split

External Equipment Control

DDC
MicroTech III
Dedicated Outside Air Supply (DOAS)
DVS DOAS System
Light Commercial RTU

Simplified Remote Controller (BRC2A71)
Wireless Remote Controller

Navigation™ Remote Controller (BRC1E73)
DKN Cloud Wi-fi Adaptor
Simplified Remote Controller (BRC2A71)
Wireless Remote Controller

RA Interface Adaptor
(KRP92BB2S)
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

1. 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

<table>
<thead>
<tr>
<th>DISPLAY MODE</th>
<th>DETAILED</th>
<th>STANDARD</th>
<th>SIMPLE NEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Image</td>
<td><img src="image1.png" alt="Display Image" /></td>
<td><img src="image2.png" alt="Display Image" /></td>
<td><img src="image3.png" alt="Display Image" /></td>
</tr>
<tr>
<td>On/Off status on LED (LED blinks when an error occurs)</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Mode</td>
<td>✗ 1</td>
<td>✗ 1</td>
<td>✗ 1</td>
</tr>
<tr>
<td>Setpoint (Dual/Single)</td>
<td>✗ 2</td>
<td>✗ 2</td>
<td>✗ 2</td>
</tr>
<tr>
<td>Room temperature</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Fan speed</td>
<td>✗ 3</td>
<td>✗ 3</td>
<td>✗ 3</td>
</tr>
<tr>
<td>Air flow direction (when a louver is available)</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Day and Time</td>
<td>✗ 3</td>
<td>✗ 3</td>
<td>✗ 3</td>
</tr>
<tr>
<td>Status icon</td>
<td>✗ 3</td>
<td>✗ 3</td>
<td>✗ 3</td>
</tr>
<tr>
<td>Key lock icon</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Error message</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
</tbody>
</table>

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

**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.

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

The table below shows which buttons are available in different setpoint modes:

<table>
<thead>
<tr>
<th>USED WITH</th>
<th>SINGLE SETPOINT MODE</th>
<th>DUAL SETPOINT MODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>BRC1E72RM</td>
<td>BRC1E72RF</td>
</tr>
<tr>
<td></td>
<td>BRC1E72RMF</td>
<td>BRC1E72RM2</td>
</tr>
<tr>
<td></td>
<td>BRC1E72RF2</td>
<td>BRC1E72RMF2</td>
</tr>
<tr>
<td>On/Off</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Mode</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Fan</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Up, Down</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Left, Right</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Menu/Ok</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Cancel</td>
<td>✗</td>
<td>✗</td>
</tr>
</tbody>
</table>

The optional face decals can hide unnecessary buttons (locked/prohibited).
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

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.

College classroom sample (a summer Monday case)

1) 8:30  ON
   The first period starts and the air conditioner starts the cooling operation.

2) 10:30  OFF
   In the second period, the classroom is unoccupied and the air conditioner stops.

3) 13:00  ON
   When the third period starts, operation starts again.

4) 15:00  OFF
   After the third period, the classroom becomes vacant again and the air conditioner stops.
**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.

With 18 configurable airflow distribution patterns, the controls aid efficiency and provides a comfortable environment.
### 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.

### 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

### 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
  - Mode
  - Setpoint
  - Fan speed
  - Room temperature
  - Error alert
  - Leveled user authority

### Summary

**REMOTE CONTROLLER COMPATIBILITY WITH VRV INDOOR UNITS**

<table>
<thead>
<tr>
<th></th>
<th>FXFQ_TV</th>
<th>FXZQ</th>
<th>FXUQ</th>
<th>FXDQ</th>
<th>FXSQ</th>
<th>FXMQ</th>
<th>FXHQ</th>
<th>FXAQ</th>
<th>FXLINQ</th>
<th>FXTQ</th>
<th>FXEO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navigation™ remote controller (Wired remote controller)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wireless remote controller (Installed type signal receiver unit)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wireless remote controller (Separate type signal receiver unit)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Simplified remote controller</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>DKN Cloud Wi-Fi Adaptor</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

- No louver control function

---

*www.daikincomfort.com*
By providing individual zone control, the occupant of each space has the ability to set the room temperature where they feel most comfortable.

### INDIVIDUAL CONTROL CAPABILITIES

<table>
<thead>
<tr>
<th>System Capabilities</th>
<th>DKN Cloud Wi-Fi Adaptor (AZA18WSDDKA)</th>
<th>BRC1673 Navigation™ Remote Controller</th>
<th>BRC2A71 Simplified Wired Remote Controller</th>
<th>Wireless Remote Controller (model depends on unit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications</td>
<td>2 Wire / DIII Net</td>
<td>2 Wire / DIII Net</td>
<td>2 Wire / DIII Net</td>
<td>Infrared</td>
</tr>
<tr>
<td>°F/°C Selector</td>
<td></td>
<td></td>
<td></td>
<td>°F only</td>
</tr>
<tr>
<td>Backlit LCD display</td>
<td></td>
<td></td>
<td></td>
<td>°F only</td>
</tr>
<tr>
<td>Room temperature display</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule and setback capabilities (with Time and Date display)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>User restriction options</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>On/Off, Operation mode, Setpoint, Fan speed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Louver position adjustment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reports system malfunctions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Space temperature sensor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simultaneous operation with Daikin multi-zone controllers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simultaneous operation with BACnet® and LonWorks®</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group control capacity</td>
<td>Up to 16 indoor units</td>
<td>Up to 16 indoor units</td>
<td>Up to 16 indoor units</td>
<td>Up to 16 indoor units</td>
</tr>
</tbody>
</table>
Advanced Multi-Zone Controllers

DCM601A71 - intelligent Touch Manager™ (iTM)
The intelligent Touch Manager (iTM) is an advanced multi-zone 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

Integration of Third Party Equipment

- Fire alarm
- kWh meter
- Ethernet (BACnet/IP)
- BACnet Client Option (DCM009A51)
- Lighting
- Fan
- Pump
- Sensor
- Dedicated Outside Air Supply (DOAS)
- DVS DOAS System
- Light Commercial RTU

BACnet Server Gateway (DCM014A51)

Full Control of Daikin VRV System

- up to 30 nodes
- Ethernet (BACnet/IP)
- DIII-NET
- one DIII-NET system
- Max. 64 indoor unit groups (128 indoor units)
- Max. 64 indoor unit groups
- Max. 64 indoor unit groups
- Max. 64 indoor unit groups
- Max. 64 indoor unit groups
- Up to 7 adaptors
- Up to 512 groups (1024 indoor units)

iTM™ Plus Adapter
- Max. 64 indoor unit groups

VRV Product Catalog
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)

Advanced Multi-Zone Controllers (cont.)

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)
iTC™ system overview

Centralized and advanced VRV control

- DIII-Net Plus Adapter
- Emergency/forced shutdown
- Tenant power consumption

Ancillary equipment control

- Key card
- Digital input (DI) unit
- Occupancy sensor
- Digital input/output (DIO) unit
- Ancillary equipment
- Damper

Energy meter
Power Proportional Distribution (PPD) - apportions total outdoor unit power consumption among indoor units with optional PPD software

Pulse input

Web access and alert e-mail

Ethernet

PC
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

The Central Controllers can monitor and control indoor units by either group or zone. Their easy-to-read liquid crystal displays (LCDs) allow you to orchestrate and monitor temperature, time, and airflow volume, etc. across your entire system at the touch of button.
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
» 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
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.

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

Controller with programs

3rd Party equipment to be controlled

Digital/Analog Inputs and Outputs from 3rd Party:
» Dampers
» Water Pump
» Valves

BACnet Devices from 3rd Party:
» Dampers
» Water Pump
» Valves

Monitoring and Management Options

Daikin WAGO BACnet/IP Controller
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

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

* BMS programming needed

Enhanced BMS Integration Solution for Indoor Unit Operation

Individual Device instance number for each indoor unit (Configurable)

Device ID (1:1-00) = 531100
Device ID (1:1-01) = 531101

Occupancy Mode = MO 1 (All indoor units)
Unit On Off Status = BI 2 (All indoor units)

Advanced iTM™ BACnet® Server Gateway Points

- Schedule
- Auto Changeover
- Timer Extension Minutes
- Emergency Stop
- On/Off
- Occupied Dual Setpoint
- Setback Setpoints
- Setpoint Range Limitation
- Min. Cool/Heat SP Differential
- Setpoint Tracking Mode
- Remote Controller Prohibit
- Timer Extension
- And more basic functions...

Advanced Indoor Unit Operation

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

* BMS programming needed

Indoor and Outdoor Unit Operation Data Points

Individual Device instance number for each indoor unit (Configurable)

Device ID (1:1-00) = 531100
Device ID (1:1-01) = 531101

Occupancy Mode = MO 1 (All indoor units)
Unit On Off Status = BI 2 (All indoor units)

Advanced iTM™ BACnet® Server Gateway Points

- Schedule
- Auto Changeover
- Timer Extension Minutes
- Emergency Stop
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- Occupied Dual Setpoint
- Setback Setpoints
- Setpoint Range Limitation
- Min. Cool/Heat SP Differential
- Setpoint Tracking Mode
- Remote Controller Prohibit
- Timer Extension
- And more basic functions...

Advanced Indoor Unit Operation

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

* BMS programming needed
DMS502B71 - Interface for use in BACnet®

- **BACnet**: Building Automation and Control Networks
  - Standard open protocol based on ANSI/ASHRAE 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)
- Manage up to 4 DIII-Net systems
  - Option Board (DAM411851) required

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**

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

Please contact Daikin for compatibility with BMS system

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

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

* For an I/F unit, one of the following can be selected: Local Controller, intelligent Touch Controller, or intelligent Touch Manager.
# Controls Product List

## Individual Controllers

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL NO.</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navigation™ Remote Controller</td>
<td>BRC1E73</td>
<td>Programmable zone controller</td>
</tr>
<tr>
<td>DKN Cloud Wi-Fi Adapter</td>
<td>A2AIBW325KA</td>
<td>Remote control by smartphone app</td>
</tr>
<tr>
<td>Wireless Remote Controller</td>
<td>BRC4C82, BRC7E81B, BRC7E83, BRC7E830</td>
<td>Hand-held zone controller with infrared receiver kit</td>
</tr>
<tr>
<td>Simplified Remote Controller</td>
<td>BRC2A71</td>
<td>Non-programmable zone controller</td>
</tr>
</tbody>
</table>

## Multi-Zone Controllers and Options

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL NO.</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>intelligent Touch Manager</td>
<td>DCM601A71</td>
<td>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)</td>
</tr>
<tr>
<td>iTM™ Plus Adaptor</td>
<td>DCM601A72</td>
<td>Maximum of 7 iTMPlus Adaptors can be connected to intelligent Touch Manager. Each iTMPlus Adaptor can add up to 84 additional groups (15 outdoor units)</td>
</tr>
<tr>
<td>iTMPPD Option</td>
<td>DCM002A71</td>
<td>Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh meter</td>
</tr>
<tr>
<td>iTM BACnet® Client Option</td>
<td>DCM009A51</td>
<td>The BACnetClient Option enables the iTM to control and monitor equipment through the BACnet/IP protocol</td>
</tr>
<tr>
<td>iTM BACnet Server Gateway Option*</td>
<td>DCM014A51</td>
<td>The BACnetServer Gateway Option provide BMS integrators with the ability to monitor and control the VRV indoor units via the BACnet/IP protocol</td>
</tr>
<tr>
<td>Intelligent Touch Controller</td>
<td>DCS601C71</td>
<td>Air-conditioning management system that can control up to 64 groups (10 outdoor units)</td>
</tr>
<tr>
<td>DIII-Net Plus Adaptor</td>
<td>DCS001A72</td>
<td>Additional 64 groups (10 outdoor units) are possible</td>
</tr>
<tr>
<td>iTC™ PPD Option</td>
<td>DCS002A71</td>
<td>Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh meter</td>
</tr>
<tr>
<td>iTCWeb Option</td>
<td>DCS004A71</td>
<td>Provides access to iTC via web browser with PC. Error Email sent when errors occur</td>
</tr>
<tr>
<td>iTCHTTP Interface Option</td>
<td>DCS007A51</td>
<td>Interface to home automation system certified with Crestron Home Automation</td>
</tr>
<tr>
<td>Central Remote Controller</td>
<td>DCS302C71</td>
<td>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</td>
</tr>
<tr>
<td>Unified ON/OFF controller</td>
<td>DCS301C71</td>
<td>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</td>
</tr>
<tr>
<td>Schedule Timer</td>
<td>DST301B81</td>
<td>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</td>
</tr>
</tbody>
</table>

* iTM BACnet Server Gateway Option is not compatible with iTMPPD option and iTM BACnet Client option.

## Hardware Interface Solutions

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

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL NO.</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Input (Di) Unit</td>
<td>DEC101A51-US2</td>
<td>Monitor On/Off and Error status of ancillary equipment</td>
</tr>
<tr>
<td>Digital Input/Output (Dis) Unit</td>
<td>DEC102A51-US2</td>
<td>Monitor and control of ancillary equipment</td>
</tr>
<tr>
<td>DIII-Net Expander Adaptor</td>
<td>DTA109A51</td>
<td>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.</td>
</tr>
<tr>
<td>Unification Adaptor for Computerized Control</td>
<td>DCS302A72</td>
<td>Turn On/Off the system from a central panel through Centralized Controller or iTouch Controller. Monitor On/Off and Error Status.</td>
</tr>
<tr>
<td>External control Adaptor for Outdoor Unit</td>
<td>DTA104A53/61/62</td>
<td>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</td>
</tr>
<tr>
<td>Group Control Adaptor</td>
<td>KRP4A71/72/73/74</td>
<td>Turn On/Off Remote Control Group. Change setpoint (with resistance interface 0-135 ohm). Monitor On/Off and Error status</td>
</tr>
<tr>
<td>ABC Terminal Kit</td>
<td>BRP2A81</td>
<td>Remotely manage the operating mode of the heat pump system. Integration point for ambient thermostats to engage lock-out</td>
</tr>
<tr>
<td>Wiring Adaptor</td>
<td>KRP1C74/75</td>
<td>Thermo-on status. Fan status. AUX heater output. Humidifier output</td>
</tr>
<tr>
<td>RA Interface Adaptor for DIII-Net Use</td>
<td>KRP92B2S</td>
<td>Mini-split can be controlled through DIII-NET</td>
</tr>
<tr>
<td>RA PCB Adaptor for Time Clock</td>
<td>KRP913A1S</td>
<td>Remotely Start / Stop for mini-split indoor units</td>
</tr>
</tbody>
</table>

## WAGO® I/O System

<table>
<thead>
<tr>
<th>MODULE</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Kit</td>
<td>6035953</td>
<td>Bus Coupler/Connector, 24 VDC Power Supply, and End Module</td>
</tr>
<tr>
<td>Digital Input</td>
<td>2 Channel DI</td>
<td>750-400</td>
</tr>
<tr>
<td></td>
<td>4 Channel DI</td>
<td>750-432</td>
</tr>
<tr>
<td></td>
<td>8 Channel DI</td>
<td>750-430</td>
</tr>
<tr>
<td>Digital Output</td>
<td>2 Channel DO</td>
<td>750-513/000-001</td>
</tr>
<tr>
<td></td>
<td>4 Channel DO</td>
<td>750-540</td>
</tr>
<tr>
<td>Analog Input</td>
<td>2 Channel AI</td>
<td>750-479</td>
</tr>
<tr>
<td></td>
<td>4 Channel AI</td>
<td>750-499</td>
</tr>
<tr>
<td>Analog Output</td>
<td>2 Channel AO</td>
<td>750-554</td>
</tr>
<tr>
<td></td>
<td>4 Channel AO</td>
<td>750-559</td>
</tr>
<tr>
<td>Internal System Power Supply</td>
<td>750-613</td>
<td>24 VDC Bus Power Supply Module, Required for use after every 32 contact points connected in a node</td>
</tr>
<tr>
<td>24 VDC Jumper</td>
<td>750-603</td>
<td>24 VDC Power Jumper Module, for use with 8 channel DI module</td>
</tr>
</tbody>
</table>

## Daikin WAGO® BACnet®/IP Controller and Parts

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NAME</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>750-831</td>
<td>Daikin WAGO® BACnet/IP Controller</td>
<td>WAGO® BACnet/IP Controller</td>
</tr>
<tr>
<td>750-000</td>
<td>End Module</td>
<td>WAGO® End Module</td>
</tr>
</tbody>
</table>
Support and Tools
Support and Tools

Daikin’s array of software and support tools are designed to streamline all stages of project design, application, installation and service/maintenance.

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

<table>
<thead>
<tr>
<th>CATEGORIES</th>
<th>TOOLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selection</td>
<td>WebXpress</td>
</tr>
<tr>
<td>Energy screening and simulation</td>
<td></td>
</tr>
<tr>
<td>Design and verification</td>
<td></td>
</tr>
<tr>
<td>Online and tablet reference (spec, data, submittal)</td>
<td></td>
</tr>
<tr>
<td>Smartphone and mobile reference</td>
<td></td>
</tr>
<tr>
<td>After sales and service</td>
<td></td>
</tr>
</tbody>
</table>
**Selection software**

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.

**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
- Trace 700
- HAP
- Energy Pro
- Energy Plus (VRV HP only)
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 pipe-lengths 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.

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).
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.

» 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’s tools and support enables consulting engineers, building owners and installers to optimize the life cycle cost of the VRV systems.
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.
About Daikin:
Daikin Industries, Ltd. (DIL) is a global Fortune 1000 company which celebrated its 90th anniversary in May 2014. The company is recognized as one of the largest HVAC (Heating, Ventilation, Air Conditioning) manufacturers in the world. DIL is primarily engaged in developing indoor comfort systems and refrigeration products for residential, commercial and industrial applications. Its consistent success is derived, in part, from a focus on innovative, energy-efficient and premium quality indoor climate and comfort management solutions.

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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