Next Generation Mini VRV

The Daikin VRV IV S-series completes the VRV air-cooled offering by allowing the technology to be offered in smaller sizes and capacities. The new VRV IV S-series systems are equipped with Variable Refrigerant Temperature (VRT) technology which provides year round comfort and energy savings. With the ability to connect up to 9** indoor units to one outdoor unit and long piping lengths (up to 984** ft. total piping length), the space saving VRV IV S-series system is ideal for most light commercial and residential applications.

Light Commercial and Residential

A highly efficient solution, the VRV IV S-series provides cooling and heating for up to 9 zones. With many different indoor unit options to choose from, systems can be paired with a mix of ducted and duct-free indoor units for a customizable system. Designed for flexibility and versatility, the VRV IV S-series system provides long piping lengths, making it an accommodating and space-saving solution for almost any floor layout.

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.

Features

- Improved year round comfort and energy savings as compared to VRVIII-S thanks to the newly added 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 VRVIII-S
- Easier to install with over 39% weight reduction vs VRVIII-S
- Low sound levels for comfort
- Uses Daikin’s reliable swing compressors
- Dependable operation in extreme ambient conditions up to 122°F**
- Safety and peace of mind with optional auto changeover to auxiliary heat
- Backed by a 10-Year Parts Limited Warranty and 10-Year Replacement Compressor Limited Warranty*

Find out more about Daikin VRV

* Complete warranty details available from your local distributor or manufacturer’s representative or at www.daikincomfort.com
** Dependent on outdoor unit model; See table on page 2 for more details.
### Series VRV IV S

**Model Name:**
- RXTQ36TAVJ9A
- RXTQ48TAVJUA
- RXTQ60TAVJUA

**Performance**

<table>
<thead>
<tr>
<th></th>
<th>VRV IV S</th>
<th>VRV IV S</th>
<th>VRV IV S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal Cooling Capacity (BTU/h)</strong></td>
<td>36,000</td>
<td>48,000</td>
<td>57,500</td>
</tr>
<tr>
<td><strong>Nominal Heating Capacity (BTU/h)</strong></td>
<td>40,000</td>
<td>52,000</td>
<td>57,000</td>
</tr>
<tr>
<td><strong>Operation Range Cooling (°F DB)</strong></td>
<td>23 to 122</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operation Range Heating (°F WB)</strong></td>
<td>-4 to 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power (V/p/Hz)</strong></td>
<td>208-230/1/60</td>
<td>208-230/1/60</td>
<td>208-230/1/60</td>
</tr>
</tbody>
</table>

**Refrigerant Piping**

<table>
<thead>
<tr>
<th></th>
<th>VRV IV S</th>
<th>VRV IV S</th>
<th>VRV IV S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Refrigerant</strong></td>
<td>R410A</td>
<td>R410A</td>
<td>R410A</td>
</tr>
<tr>
<td><strong>Refrigerant Quantity (lbs)</strong></td>
<td>6.4</td>
<td>3.8</td>
<td>3.8</td>
</tr>
<tr>
<td><strong>Liquid Pipe (Main Line) (in)</strong></td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
</tr>
<tr>
<td><strong>Suction Gas Pipe (Main Line) (in)</strong></td>
<td>5/8</td>
<td>3/8</td>
<td>3/8</td>
</tr>
<tr>
<td><strong>Maximum vertical pipe length between IDU (ft)</strong></td>
<td>33</td>
<td>49</td>
<td>49</td>
</tr>
<tr>
<td><strong>Actual Pipe Length (Equivalent Length) (ft)</strong></td>
<td>164</td>
<td>230</td>
<td>230</td>
</tr>
<tr>
<td><strong>Total Piping Length (ft)</strong></td>
<td>820</td>
<td>984</td>
<td>984</td>
</tr>
</tbody>
</table>

**Connection Ratio**

<table>
<thead>
<tr>
<th></th>
<th>VRV IV S</th>
<th>VRV IV S</th>
<th>VRV IV S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Connectable Indoor Unit Ratio (%)</strong></td>
<td>50-130</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Number of Indoor Units</strong></td>
<td>6</td>
<td>8</td>
<td>9</td>
</tr>
</tbody>
</table>

**Unit**

<table>
<thead>
<tr>
<th></th>
<th>VRV IV S</th>
<th>VRV IV S</th>
<th>VRV IV S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outdoor Unit Size (HxWxD) (in)</strong></td>
<td>39 x 37 x 12-5/8</td>
<td>39 x 37 x 12-5/8</td>
<td>52-15 x 35-7/16 x 12-5/8</td>
</tr>
<tr>
<td><strong>Weight (lbs)</strong></td>
<td>172</td>
<td>172</td>
<td>225</td>
</tr>
</tbody>
</table>

**Fan**

<table>
<thead>
<tr>
<th></th>
<th>VRV IV S</th>
<th>VRV IV S</th>
<th>VRV IV S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Airflow (CFM)</strong></td>
<td>2,682</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fan Motor Output and Quantity (kW)</strong></td>
<td>0.20 x 1</td>
<td>0.20 x 1</td>
<td>0.070 X 2</td>
</tr>
</tbody>
</table>

**Electrical**

<table>
<thead>
<tr>
<th></th>
<th>VRV IV S</th>
<th>VRV IV S</th>
<th>VRV IV S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Over Current Protection (MOP) (A)</strong></td>
<td>25</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td><strong>Minimum Circuit Amps (MCA) (A)</strong></td>
<td>17</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td><strong>Rated Load Amps IRLA (A)</strong></td>
<td>15.3</td>
<td>19.0</td>
<td>23.2</td>
</tr>
</tbody>
</table>

**Compressor**

<table>
<thead>
<tr>
<th></th>
<th>VRV IV S</th>
<th>VRV IV S</th>
<th>VRV IV S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Compressor Type</strong></td>
<td>Daikin Swing</td>
<td>Daikin Swing</td>
<td>Daikin Swing</td>
</tr>
<tr>
<td><strong>Capacity Control (%)</strong></td>
<td>14-100</td>
<td>14-100</td>
<td>14-100</td>
</tr>
<tr>
<td><strong>ODU Style</strong></td>
<td>Single Fan</td>
<td>Single Fan</td>
<td>Double Fan</td>
</tr>
</tbody>
</table>

---

### The Daikin Swing Compressor

- Daikin VRV IV S-series is built with the highly reliable Daikin swing compressor.
- Daikin’s swing compressor technology integrates all the moving parts into one component.
- The integration minimizes abrasion between moving parts and refrigerant leakage through gaps from high to low pressure zones.
- Daikin’s swing compressors deliver higher compressor efficiencies than a standard rotary compressor.

---

**VRT mode control selection to match user preferences**

- **Fixed Refrigerant Temperature**
  - VRT mode is efficiency focused while Basic mode is capacity focused.
  - Energy saving priority
  - Capacity priority

- **Variable Refrigerant Temperature**
  - VRT enables operation to be optimised for either energy efficiency or rapid cooling.

**High Sensible Mode**

- Fixed Te
- Gives priority to very fast reaction speed. The refrigerant temperature goes down fast to keep the room setpoint stable.

**Fast Heating**

- Energy saving priority
- Capacity priority
- VRT is efficiency focused while Basic is capacity focused.
- Selecting VRT enables operation to be optimised for either energy efficiency or rapid cooling.

**Powerful Mode**

- Reaction speed: Very Fast
- The refrigerant temperature can go lower in cooling than the set minimum.

**Quick Mode**

- Reaction speed: Fast
- The refrigerant temperature goes down fast to keep the room setpoint stable.

**Mild Mode**

- Reaction speed: Medium
- The refrigerant temperature goes down fast to keep the room setpoint stable.

**ECO Mode**

- Reaction speed: Medium
- Energy saving priority
- Capacity priority

**Sensible Temperature Modes**

- **High Sensible Mode**
  - Fixed Te
  - Gives priority to very fast reaction speed.
  - The refrigerant temperature goes down fast to keep the room setpoint stable.

- **Fast Heating**
  - Energy saving priority
  - Capacity priority
  - VRT is efficiency focused while Basic is capacity focused.
  - Selecting VRT enables operation to be optimised for either energy efficiency or rapid cooling.

- **Powerful Mode**
  - Reaction speed: Very Fast
  - The refrigerant temperature can go lower in cooling than the set minimum.

- **Quick Mode**
  - Reaction speed: Fast
  - The refrigerant temperature goes down fast to keep the room setpoint stable.

- **Mild Mode**
  - Reaction speed: Medium
  - The refrigerant temperature goes down fast to keep the room setpoint stable.

- **ECO Mode**
  - Reaction speed: Medium
  - Energy saving priority
  - Capacity priority

**Additional Considerations**

- **Ambient Temperature**
  - 122°F
  - 77°F
  - 23°F
  - -4°F
  - -13°F

- **Coiling**
  - Heating
  - Cooling

---

**VRV IV S**

- **Unit Outdoor Unit Size (HxWxD)**
  - 39 x 37 x 12-5/8
  - 52-15/16 x 35-7/16 x 12-5/8

- **Weight lbs.**
  - 172
  - 225

- **Fan Airflow CFM**
  - 2,682

- **Fan Motor Output and Quantity kW**
  - 0.20 x 1
  - 0.070 X 2

- **Electrical Minimum Circuit Amps (MCA) A**
  - 17

- **Electrical Rated Load Amps IRLA A**
  - 15.3

- **Electrical Maximum Over Current Protection (MOP) A**
  - 25

- **Electrical Minimum Load Power (MOP) A**
  - 14-100

- **Electrical Rating Load (MOP) A**
  - 14-100

- **Fan Type**
  - Single Fan
  - Double Fan

---

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

© 2020 DAIKIN NORTH AMERICA LLC · Houston, Texas · USA · www.daikincomfort.com or www.daikinac.com

PF-VRV4S 4-20