Current Daikin VRV lineup

General information, features

### Daikin VRV Outdoor Unit Range

<table>
<thead>
<tr>
<th>System type</th>
<th>Model names</th>
<th>Capacity Range</th>
<th>Max. connectable indoor units</th>
<th>Application note</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VRV IV</strong></td>
<td>Heat Pump with continuous heating during defrost</td>
<td>RYYQ-T / RYMQ-T</td>
<td>8 ~ 54 HP</td>
<td>64</td>
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<tr>
<td></td>
<td>Heat Pump without continuous heating during defrost</td>
<td>RXYQ-T</td>
<td>8 ~ 54 HP</td>
<td>64</td>
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<tr>
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<td>Heat Recovery</td>
<td>REXYQ-T / REMQ-T</td>
<td>8 ~ 54 HP</td>
<td>64</td>
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<tr>
<td><strong>VRV Classic</strong></td>
<td>Heat Pump</td>
<td>RXYCQ-A</td>
<td>8 ~ 20 HP</td>
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<td><strong>VRV III-C</strong></td>
<td>Cold Region Heat Pump</td>
<td>RTSYQ-PA</td>
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<tr>
<td><strong>VRV IV S-series</strong></td>
<td>Mini VRV</td>
<td>RXYCSQX-Q / RXYCSQ-T</td>
<td>4 ~ 12 HP</td>
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<tr>
<td><strong>VRV IV i-series</strong></td>
<td>VRV for indoor installation</td>
<td>RXYQ-I / RXQY-I-T</td>
<td>5 ~ 8 HP</td>
<td>10</td>
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<tr>
<td><strong>VRV IV W-series</strong></td>
<td>Water-cooled Heat Pump / Heat Recovery</td>
<td>RWEYQ-T</td>
<td>8 ~ 30 HP</td>
<td>48</td>
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<tr>
<td><strong>VRV IV Q-series</strong></td>
<td>Replacement VRV Heat Pump</td>
<td>RXYOQ-T</td>
<td>8 ~ 42 HP</td>
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<tr>
<td><strong>VRV III Q</strong></td>
<td>Replacement VRV Heat Recovery</td>
<td>ROSEQ-P</td>
<td>10 ~ 30 HP</td>
<td>48</td>
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</tbody>
</table>
Daikin VRV Outdoor Unit Range

The VRV IV Generation

The VRV IV family is growing, utilizing the revolutionary features:

- Variable Refrigerant Temperature control
- Continuous Heating in Defrost
- Easy commissioning via VRV Configurator
- Total solution approach – it’s not just DX Air Conditioning

| Capacity class [HP] | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
|---------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Heat Pump           |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Heat Recovery       |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Water-cooled Heat Pump / Heat Recovery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Replacement VRV Heat Pump | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Approximate cooling capacity [kW]: 22, 28, 34, 40, 45, 56, 62, 67, 71, 77, 82, 88, 94, 105, 110, 115, 120, 126, 132, 138, 143, 147

Approximate heating capacity [kW]: 25, 32, 38, 45, 50, 57, 63, 69, 75, 82, 88, 94, 102, 107, 113, 119, 125, 131, 137, 143, 149, 155, 161, 167, 173
Variable Refrigerant Temperature control

VRV IV Unique Features

Highest operational efficiency

- Variable Refrigerant Temperature control

Currently on all VRF systems

Same refrigerant temperature (Tr) throughout the season

As outdoor temperature falls, the capacity of the system is adjusted merely by reducing the speed of inverter compressors

Reducing compressor speed improves efficiency, but only to a certain extent: at very low compressor speeds, compressor efficiency actually falls

Example: cooling

© Daikin
Highest operational efficiency

- Variable Refrigerant Temperature control

**Automatic VRT mode**

Higher refrigerant temperature (Tr) in mid-season

As outdoor temperature falls, the capacity of the system is adjusted by reducing the speed of compressors AND by increasing the evaporation temperature

Efficiency increases far more thanks to lower compression ratio’s and thanks to maintaining the compressors at optimal speeds

**Example:**

- Reduced power consumption
- Reduced running costs
- Reduced CO₂ emissions

---

**Variable Tr**

20° 25° 30° 35°

**Fixed Tr**

20° 25° 30° 35°

**Outdoor temperature**

**Efficiency**

**Capacity & Load**

**System capacity**

**Cooling requirement**

**Design point**

**Example:**

- Reduced power consumption
- Reduced running costs
- Reduced CO₂ emissions

---

**Variable Tr**

20° 25° 30° 35°

**Fixed Tr**

20° 25° 30° 35°

**Outdoor temperature**

**Efficiency**

**Capacity & Load**

**System capacity**

**Cooling requirement**

**Design point**

**Example:**

- Reduced power consumption
- Reduced running costs
- Reduced CO₂ emissions
VRV IV Unique Features

Special features

- Variable Refrigerant Temperature control

+28% Seasonal cooling Efficiency

Average ESEER of the VRV III range: 5.1
Average ESEER of the VRV IV range: 6.6

ESEER comparison

ESEER (VRV III) | ESEER (VRV IV)
---|---
8.0 | 8.0
7.5 | 7.5
7.0 | 7.0
6.5 | 6.5
6.0 | 6.0
5.5 | 5.5
5.0 | 5.0
4.5 | 4.5
4.0 | 4.0

How is this increased efficiency possible?

Efficiency benefit

Cycle example: outdoor temp 25–27°C – standard VRF

- Cycle specs.: $T_E = 6{}^\circ C$
- $T_C = 40{}^\circ C$
- $\Delta T_{SH} = 5K$
- $\eta_{IS} = 0.6$
- Heat loss factor = 10%

Theoretical EER = 4.6

+17%

Cycle example: outdoor temp 25–27°C – Increased refrigerant temperature

- Cycle specs.: $T_E = 11{}^\circ C$
- $T_C = 40{}^\circ C$
- $\Delta T_{SH} = 5K$
- $\eta_{IS} = 0.6$
- Heat loss factor = 10%

Theoretical EER = 5.4
Special features

- Variable Refrigerant Temperature control

**How is this increased efficiency possible?**

The previous example did not count on increased efficiency of the compressor – but this also has significant impact.

With a higher refrigerant temperature, the compression ratio falls so the compressor doesn’t have to work so much. Moreover, we prevent it from operating at less efficient low speeds.

**VRV IV Unique Features**

**Efficiency benefit**

Compressor efficiency vs. Compressor frequency [rps] chart.

© Daikin
Special features

Variable Refrigerant Temperature control

Is this refrigerant control good for anything else?

Comfort benefit

Higher refrigerant temperature also means less dehumidification of the air and higher discharge air temperatures

- Dramatically reduced risk of cold draft feeling
- Less dehumidification when it’s not necessary (CEE comfort applications)

Example (at these conditions): FXSQ100P7

<table>
<thead>
<tr>
<th>Total capacity</th>
<th>6.3 kW</th>
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</thead>
<tbody>
<tr>
<td>Sensible capacity</td>
<td>6.2 kW</td>
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<tr>
<td>Latent capacity</td>
<td>0.1 kW</td>
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<tr>
<td>Dehumidification</td>
<td>0.2 kg/h</td>
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</tbody>
</table>

Almost no dehumidification, high discharge temperature = no cold draft!

Continuous Heating during defrost
Highest comfort

Continuous Heating during defrost

Every heat pump system accumulates ice on the outdoor unit heat exchanger during operation. This ice needs to be melted away every once in a while.

→ defrost operation

Heat pump systems perform defrost by "reversed cycle".

Heat is extracted from the indoor units
→ Indoor units stop heating and turn cold
→ Cold air can "fall" from the indoor units

Now, Daikin introduces a more comfortable solution…

… with a unique technology

… that provides energy both for the defrost and for the indoor units.

Heat is NOT extracted from the indoor units
→ Indoor units continue heating
→ Comfortable air continues to be delivered

Current VRF systems

A phase change material is one which will store or release energy when it changes phase from solid to liquid or liquid to solid.

VRV IV Unique Features

Highest comfort

Continuous Heating during defrost

Single-module heat pump systems

As PCM solidifies, heat energy is released back into the environment.

As PCM in solid state

Temperature rises

PCM in liquid state

As PCM in liquid state

Temperature falls

Capsule Shell
**Highest comfort**

- Continuous Heating during defrost

**Single-module heat pump systems**

As PCM solidifies, heat energy is released back into the environment.

As PCM absorbs heat energy, it melts.

**Special features**

- Continuous Heating during defrost

**Multi-module systems**

The previous slides were for single-module systems (8~20HP).

Multi-module systems perform continuous heating during defrost like the VRV III Heat Recovery, i.e. each module defrosts separately, while others continue “to heat”.
**Special features**

- Continuous Heating during defrost

**The Benefit?**

- Indoor unit heat exchangers never turn cold
  - Never can you have cold draft “falling” out of the indoor unit
  - In most operation conditions, comfortably warm air is still delivered
  - Room temperature decrease is barely noticeable

- Field piping and indoor unit heat exchangers don’t have to be pressurized and heated up after the defrost
  - Return to full capacity after defrost is nearly instantaneous = no need for hot start

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**VRV IV Heat Pump**

**RYYQ-T**

**RXYQ-T**

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**Not sales talk, reality**

- **Quick re-heat**
  - On VRV IV, the discharge air stabilized at 29°C

- On standard heat pump VRF systems, the indoor unit stopped blowing air and the heat exchanger cooled down to as low as -15°C
VRV Configurator

... because commissioning matters

VRV configurator for easier, quicker and more reliable commissioning

Mode 1 (read-out) & Mode 2 (field settings) clearly explained in multiple CEE languages!

- Czech
- Croatian
- English
- German
- Hungarian
- Romanian
- Slovak
- Bulgarian
- Slovenian
Total Solution Systems

Highest Design Efficiency

- The Total Solution System

VRV IV Unique Features

- DX heating and cooling
- Low temperature water heating or cooling
- High temperature water heating (up to 80°C)
- Ventilation
VRV IV Unique Features

Highest Design Efficiency

- Use Split indoor units with **single-module VRV IV Heat Pumps** for:
  - Especially sound-sensitive applications (no refrigerant noise from EXV)
  - Applications where design and end-user functionality is key (show-rooms, prestigious meeting rooms, CEO’s office, etc.)

- Utilize low-temperature hot and/or cold water on **both the VRV IV Heat Pump and Heat Recovery** for:
  - Floor-heating in high lobby’s, washrooms or toilets
  - Ventilation applications (AHU’s with water heat exchangers)
VRV IV Unique Features

Highest Design Efficiency

- Generate up to 80°C hot water without any direct electrical heater with the **VRV IV Heat Recovery** for:
  - Sanitary water in offices, hotels, sports centers
  - Ventilation applications (AHU's with water heat exchangers)
  - And generate it virtually for free during heat recovery operation

- **Recovered heat**
  - Heating only: 25°C ~ 80°C
  - Up to 200% connection ratio for heat recovery into HT water

VRV IV Unique Features

Highest Design Efficiency

- Use both the **VRV IV Heat Pump and Heat Recovery** as condensing units for Air Handling Unit applications as:
  - Unique large condensing units with precise 0-10V capacity control for capacities up to 84 kW (VRV IV Heat Pump up to 30HP)

- Compound system, utilizing “free heat” in heat recovery operation (in case of VRV IV Heat Recovery) or just as another indoor unit
Again a leap-step forward in VRF technology

- All the market-leading technologies of VRV III ...
- ... and more:
  - Variable Refrigerant Temperature control
  - Continuous Heating during defrost (RYYQ-T)
  - VRV Configurator
  - Level difference between indoor units up to 30 m!
  - New LT hydrobox for water heating and cooling with standard VRV Heat Pump
  - New indoor combination possibilities

### VRV IV Heat Pump

**RYYQ-T & RXYQ-T**

<table>
<thead>
<tr>
<th>Capacity class [HP]</th>
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<th>5</th>
<th>6</th>
<th>8</th>
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<th>44</th>
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<th>50</th>
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</thead>
<tbody>
<tr>
<td>VRV IV Heat Pump with continuous heating</td>
<td>RYYQ-T</td>
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<tr>
<td>Approximate cooling capacity [kW] * 1</td>
<td>12</td>
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<tr>
<td>Approximate heating capacity [kW] * 1</td>
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<td>56</td>
<td>58</td>
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<td>62</td>
</tr>
</tbody>
</table>

* 1 Approximate cooling/heating capacity values are based on standard conditions and may vary depending on actual installation and operational conditions.
System components

- Continuous Heating Single-use modules – for systems of 8 ~ 20 HP

<table>
<thead>
<tr>
<th>HP</th>
<th>RYYQ8T</th>
<th>RYYQ10T</th>
<th>RYYQ12T</th>
<th>RYYQ14T</th>
<th>RYYQ16T</th>
<th>RYYQ18T</th>
<th>RYYQ20T</th>
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</tbody>
</table>

- Inverter compressor – fluent capacity control 24% ~ 100% → VRV IV does not have any On/Off compressors

- Heat Accumulation Element (PCM vessel)

- The above modules are for single-module use only! A system with these modules cannot be upgraded to higher capacity by adding another module!

- What's special about the single-use modules?
  - They contain the heat accumulation element (PCM vessel) – in order to defrost while providing heating comfort to the indoor environment, the modules contain the heat accumulation element. Multi-module systems defrost each module separately, thus they don't require the heat accumulation element.

System components

- Continuous Heating Multi-use modules – for combined use in systems of 16 ~ 54 HP

<table>
<thead>
<tr>
<th>HP</th>
<th>RYMQ8T</th>
<th>RYMQ10T</th>
<th>RYMQ12T</th>
<th>RYMQ14T</th>
<th>RYMQ16T</th>
<th>RYMQ18T</th>
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</tbody>
</table>

- Inverter compressor – fluent capacity control 24% ~ 100% → VRV IV does not have any On/Off compressors

- The above modules are for multi-use only! A system with only one of these modules cannot work!

- What's the difference to single-use modules?
  - The multi-use modules don’t contain the heat accumulation element (PCM vessel), because continuous heating during defrost can be attained by sequential defrosting of the individual modules (a.k.a. VRV III Heat Recovery)
**System components**

- **Non-Continuous Heating modules** – for both single- and multi-module systems

<table>
<thead>
<tr>
<th>8 HP</th>
<th>10 HP</th>
<th>12 HP</th>
<th>14 HP</th>
<th>16 HP</th>
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<tr>
<td>RXYQ8T</td>
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<td>RXYQ18T</td>
<td>RXYQ20T</td>
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</tbody>
</table>

Inverter compressor – fluent capacity control 24% – 100% ➔ VRV IV does not have any On/Off compressors

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**VRV IV Heat Pump**

**Combinations**

<table>
<thead>
<tr>
<th>Total HP:</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
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<tbody>
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<td>RYYQ-T</td>
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Possible, but not standard – limited piping length allowances

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**VRV™ IV Heat Pump with continuous heating**

| Total HP: | 4  | 6  | 8  | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RYYQ-T    | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ8T    | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ10T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ12T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ14T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ16T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ18T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ20T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |

Possible, but not standard – limited piping length allowances

---

Approximate cooling capacity [kW]

| Total HP: | 4  | 6  | 8  | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RYYQ-T    | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ8T    | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ10T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ12T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ14T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ16T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ18T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |
| RYYQ20T   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  |

---

**Other combinations than specified are possible, but with limited piping length allowances!**

**A maximum of 3 modules can be connected together in one system!**

**Modules must be interconnected using Daikin piping kits (same as for VRV III)**

---

© Daikin
**System components**

**Combinations**

<table>
<thead>
<tr>
<th>Total HP</th>
<th>4 5 6 8 10 12 16 20 22 24 26 28 30 32 34 36 40 42 44 46 48 50 52 54</th>
</tr>
</thead>
<tbody>
<tr>
<td>RXYQ-T</td>
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<td>RXYQ8T</td>
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<td>RXYQ10T</td>
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<td>RXYQ16T</td>
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<tr>
<td>RXYQ18T</td>
<td></td>
</tr>
<tr>
<td>RXYQ20T</td>
<td></td>
</tr>
</tbody>
</table>

VR® IV Heat Pump without continuous heating

**Branch Provider boxes (BP-boxes)**

- Split indoor units do not have expansion valves inside like VRV indoor units. Also they work with a different communication line (1-2-3 line vs. F1/F2 on VRV). BP-boxes provide the expansion valve and convert VRV F1/F2 communication to Split / SkyAir 1-2-3 communication.

**System components**

- Other combinations than specified are possible, **but with limited piping length allowances!**
- A maximum of 3 modules can be connected together in one system!
- Modules must be interconnected using Daikin piping kits (same as for VRV III)

---

**VRV IV Heat Pump**

**RYYQ-T & RXYQ-T**

**Approximate cooling capacity [kW]**


**Approximate heating capacity [kW]**

- RXYQ-T: 13, 16, 18, 20, 22, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170

---

**BPMKS967A2**

- Number of connectable indoor units: 2
- Max. connectable capacity [kW]: 7.1 + 7.1
- Dimensions (mm): 180 x 294 x 350
- Weight [kg]: 7.5

**BPMKS967A3**

- Number of connectable indoor units: 3
- Max. connectable capacity [kW]: 6.0 + 7.1 + 7.1
- Dimensions (mm): 180 x 294 x 350
- Weight [kg]: 8
VRV IV Heat Pump
RYYQ-T & RXYQ-T

Operation range – air conditioning

COOLING

-5 5 10 15 20 25 30 35 40 45
Outdoor temperature [°C]

Continuous operation
Pull-down operation (short term only)

Indoor (on-coil) temperature [°CDB]

-5 5 10 15 20 25 30 35
Leaving water temperature [°C]

Continuous operation
Pull-up operation (short term only)

Heating operation is blocked by software above 25°CDB outdoor temperature

Wet-bulb temperature! Capacity tables assume ~50% relative humidity.

Operation range – hydrobox

COOLING

-5 5 10 15 20 25 30 35 40 45
Outdoor temperature [°C]

Continuous operation
PRELIMINARY

Leaving water temperature [°C]

Dry-bulb temperature!

Heating operation is blocked by software above 25°CDB outdoor temperature
### Combination and Connection Ratio limitations

#### VRV IV Heat Pump

**RYYQ-T & RXYQ-T**

<table>
<thead>
<tr>
<th>Combination</th>
<th>Possible indoor combinations</th>
<th>Max. number of Indoors</th>
<th>Max. outdoor system size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRV only</td>
<td>●</td>
<td>64</td>
<td>1~3 modules</td>
</tr>
<tr>
<td>VRV + Split / SkyAir</td>
<td>●</td>
<td>32</td>
<td>1 module only</td>
</tr>
<tr>
<td>Split / SkyAir only</td>
<td>●</td>
<td>32</td>
<td>1 module only</td>
</tr>
<tr>
<td>VRV + Hydrobox</td>
<td>●</td>
<td>32</td>
<td>1~3 modules</td>
</tr>
<tr>
<td>VRV + Ventilation units</td>
<td>●</td>
<td>64</td>
<td>1~3 modules</td>
</tr>
<tr>
<td>Air Handling Unit (AHU) kits only</td>
<td>●</td>
<td>64</td>
<td>1~3 modules</td>
</tr>
</tbody>
</table>

*No other combinations than listed above are allowed! E.g. no VRV + RA + Hydrobox, or RA + Hydrobox.*

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<table>
<thead>
<tr>
<th>Combination</th>
<th>Possible indoor combinations</th>
<th>Total</th>
<th>Connection Ratio Limits</th>
<th>Special limits &amp; notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRV only</td>
<td>●</td>
<td>50~200%</td>
<td>• 200% only possible with certain indoor units – consults Daikin for details</td>
<td>VKM units limit the total connection ratio to 130%</td>
</tr>
<tr>
<td>VRV + Split / SkyAir</td>
<td>●</td>
<td>80~130%</td>
<td>• VRV / Split / SkyAir indoor units can be mixed in any ratio within the total connection ratio limits</td>
<td></td>
</tr>
<tr>
<td>Split / SkyAir only</td>
<td>●</td>
<td>80~130%</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>VRV + Hydrobox</td>
<td>●</td>
<td>50~130%</td>
<td>• Connection ratio limit for air conditioning units (VRV + VKM) is 50<del>130%. Connection ratio limit for LT Hydroboxes is 0</del>80%.</td>
<td></td>
</tr>
<tr>
<td>VRV + Ventilation units</td>
<td>●</td>
<td>50~110%</td>
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<tr>
<td>Air Handling Unit (AHU) kits only</td>
<td>●</td>
<td>90~110%</td>
<td></td>
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</tr>
</tbody>
</table>

*No other combinations than listed above are allowed! E.g. no VRV + RA + Hydrobox, or RA + Hydrobox.*
360° efficiency

Highest efficiencies for all aspects of the project

Largest, most flexible BS-Box portfolio on the market & freely selectable outdoor combinations for highest efficiency in design

Compact, light-weight multi-port BS-Boxes, the VRV Configurator & automatic charging for efficiency during installation

Variable Refrigerant Temperature control, new mixed-mode (heat recovery) control & continuous heating during defrost for operational efficiency

<table>
<thead>
<tr>
<th>VRV® IV Heat Recovery</th>
<th>REYQ-T</th>
</tr>
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<tbody>
<tr>
<td>Approximate cooling capacity [kW]</td>
<td>22</td>
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<tr>
<td>Approximate heating capacity [kW]</td>
<td>25</td>
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</tbody>
</table>

VRV IV Heat Recovery REYQ-T

VRV Classic Heat Pump RXYCQ-A

Upgrade of the Daikin Commercial Multi-Split system (CMS): A Daikin VRF system for projects on a tight budget

Based on the market-leading technologies of VRV III

All standard VRV indoor units connectable

<table>
<thead>
<tr>
<th>VRV Classic Heat Pump</th>
<th>RXYCQ-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximate cooling capacity [kW]*</td>
<td>12</td>
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<tr>
<td>Approximate heating capacity [kW]*</td>
<td>14</td>
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</tbody>
</table>
VRV Classic Heat Pump
RXYCQ-A

System components

- Basic modules for single- and two-module combinations

- **Combinations**

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<tr>
<th>Total HP</th>
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<th>5</th>
<th>6</th>
<th>8</th>
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</tbody>
</table>

| VRV® IV Heat Pump without continuous heating |

| Total HP | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
|----------|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RXYCQ-A |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| RXYCQ6A |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| RXYCQ9A |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| RXYCQ12A|   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| RXYCQ14A|   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| RXYCQ16A|   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| RXYCQ18A|   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| RXYCQ20A|   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

- Inverter compressor – fluent capacity control 24% ~ 100%
- Standard compressor – On/Off
**Operation range – air conditioning**

**COOLING**

- Outdoor temperature [°C]
- Indoor (on-coil) temperature [°C]

**HEATING**

- Outdoor temperature [°C]
- Indoor (on-coil) temperature [°C]

**Wet bulb temperature! Capacity tables assume ~50% relative humidity.**

**Combination and Connection Ratio limitations**

<table>
<thead>
<tr>
<th>Combination</th>
<th>Possible indoor combinations</th>
<th>Max. number of indoors</th>
<th>Max. outdoor system size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRV Classic</td>
<td>VRV</td>
<td>64</td>
<td>1 module systems only</td>
</tr>
<tr>
<td></td>
<td>Split / SkyAir</td>
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<td>LT Hydrobox</td>
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<td>Air curtain</td>
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<td>AHU kit</td>
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</tbody>
</table>

**Connection Ratio Limits**

- 50 – 120%
- In case of FXFQ20–25A units on 8HP and 10HP systems, the connection ratio is limited to 100%

**No other combinations than listed above are allowed! E.g. no VRV + RA + Hydrobox, or RA + Hydrobox.**
VRV III-C Cold Region Heat Pump
RTSYQ-P

- Functionality unique in the market
- Genuine two-stage compression
- Unprecedented operation capability
- Heating operation guaranteed down to -25°C
- Unprecedented performance at low temperatures
  - Constant capacity down to -5°C
  - COP > 3 down to -15°C
  - 80% of capacity available down to -20°C
- Rich array of features of the VRV III generation
  - Automatic charging + Leak check
  - Low noise + Demand operation

### Special features

- Two-stage compression ➔ higher capacity and efficiency at low ambient temperatures

The system is designed to fulfill the task of being a monovalent heating system.
- Perfectly suited for projects where standard outdoor units had to be over-dimensioned in terms of cooling capacity to provide sufficient heating capacity

*e.g.*: Required cooling capacity 28 kW, required heating capacity at -20°C: 25kW

### Approximate cooling capacity [kW]

<table>
<thead>
<tr>
<th>Outdoor temperature [°C]</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximate cooling capacity [kW]</td>
<td>28</td>
<td>34</td>
<td>40</td>
<td>47</td>
<td>54</td>
<td>61</td>
<td>67</td>
<td>73</td>
<td>79</td>
<td>85</td>
<td>91</td>
</tr>
</tbody>
</table>

### Approximate heating capacity [kW]

<table>
<thead>
<tr>
<th>Outdoor temperature [°C]</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximate heating capacity [kW]</td>
<td>25</td>
<td>32</td>
<td>38</td>
<td>45</td>
<td>50</td>
<td>57</td>
<td>63</td>
<td>69</td>
<td>75</td>
<td>82</td>
<td>88</td>
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</tbody>
</table>

VRV III-C Heat Pump

<table>
<thead>
<tr>
<th>Outdoor temperature [°C]</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP &gt; 3 at -15°C</td>
<td>3.0</td>
<td>2.5</td>
<td>2.0</td>
<td>1.5</td>
<td>1.0</td>
<td>0.5</td>
<td>0.0</td>
<td>-0.5</td>
<td>-1.0</td>
<td>-1.5</td>
<td>-2.0</td>
</tr>
</tbody>
</table>

VRV III-C Heat Pump

<table>
<thead>
<tr>
<th>Outdoor temperature [°C]</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating Capacity  (kW)</td>
<td>100% capacity</td>
<td>80% capacity</td>
<td>50% capacity</td>
<td>0% capacity</td>
<td>0% capacity</td>
<td>0% capacity</td>
<td>0% capacity</td>
<td>0% capacity</td>
<td>0% capacity</td>
<td>0% capacity</td>
<td>0% capacity</td>
</tr>
</tbody>
</table>

VRV III-C Cold Region Heat Pump
RTSYQ-P
Special features

- **Two-stage compression** → faster heat-up and shorter defrosts

![Graph showing heat-up and defrost times for VVR III C and standard heat pump.](image)

- The second stage compressor is active during heat-up and during defrost, providing extra capacity and shortening both of the processes by about 50% → the integrated heating capacity is higher than on a standard heat pump.

**Integrated heating capacity** is the heating capacity the unit provides on average over a long period of time, i.e. heating capacity corrected for the periods of no capacity during defrost.

System components

**Unit composition**

<table>
<thead>
<tr>
<th>10 HP</th>
<th>14 HP</th>
<th>16 HP</th>
<th>20 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTSYQ10P</td>
<td>RTSYQ14P</td>
<td>RTSYQ16P</td>
<td>RTSYQ20P</td>
</tr>
</tbody>
</table>

- Inverter compressor – fluent capacity control 24% ~ 100%
- Standard compressor – On/Off

**Only the above combinations are possible. Other combinations are not guaranteed to work.**
System components

- The Function Unit BTSQ20P

The Function Unit provides a second stage compressor for heating operation under low ambient conditions. Two-stage compression increases efficiency, increases capacity, and reduces defrost times.

The Function Unit operates in heating mode approximately from 5°C outdoor temperature down. At higher temperatures and in cooling mode, it is bypassed, causing no losses to capacity or efficiency.

Operation range

**COOLING**

<table>
<thead>
<tr>
<th>Outdoor temperature [°C]</th>
<th>Indoor (on-coil) temperature [°C]</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
<td>-5</td>
</tr>
<tr>
<td>-15</td>
<td>0</td>
</tr>
<tr>
<td>-10</td>
<td>5</td>
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<td>25</td>
<td>40</td>
</tr>
<tr>
<td>30</td>
<td>45</td>
</tr>
</tbody>
</table>

Continuous operation

Pull-down operation (short term only)

**HEATING**

<table>
<thead>
<tr>
<th>Outdoor temperature [°C]</th>
<th>Indoor (on-coil) temperature [°C]</th>
</tr>
</thead>
<tbody>
<tr>
<td>-25</td>
<td>-5</td>
</tr>
<tr>
<td>-20</td>
<td>0</td>
</tr>
<tr>
<td>-15</td>
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<td>35</td>
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<tr>
<td>20</td>
<td>40</td>
</tr>
<tr>
<td>25</td>
<td>45</td>
</tr>
</tbody>
</table>

Continuous operation

Pull-up operation (short term only)

Wet-bulb temperature! Capacity tables assume ~50% relative humidity.

Heating operation is blocked by software above 25°C Coil outdoor temperature.
A geothermal heat pump VRF system
- Works with water-glycol temperatures as low as -10°C, making the use of economically sized geothermal collectors possible
- Great solution for high-rise buildings
- No need to cover big elevation differences with refrigerant piping
- Suitable for refurbishment projects
- Can be connected to existing dry coolers or cooling towers
- Unique solution for low-noise cooling
- Can be connected to over-sized very quiet dry coolers and thus reduce the outdoor noise impact – great for city centers

System components
- Basic modules
- Multi-module systems – systems up to 30 HP are made of up to 3 of the above modules
Special features

- Double heat recovery possible

The unique concept of the water-cooled VRV gives the opportunity to recover energy not just within one VRV system in heat recovery mode, but also in between several separate systems via the water loop.

Application tip

- The water-cooled VRV is very suitable for example for highly noise sensitive applications (such as historical centers of cities), because it is possible to reject the heat from cooling operation using an oversized and very quiet dry-cooler.

Of course, if the system is supposed to be also used for heating, then an alternative source of heat in the water loop must be used – a dry cooler will not provide sufficiently warm water at low ambient temperatures and it also cannot be defrosted. A source of heat can be a low-temperature condensing boiler, for example.
Operation range - STANDARD

COOLING

HEATING

VRV IV-W Water Cooled
RWEYQ-T

Wet bulb temperature! Capacity tables assume ~50% relative humidity.

Operation range – GEOTHERMAL setting

COOLING

HEATING

VRV IV-W Water Cooled
RWEYQ-T

Wet bulb temperature! Capacity tables assume ~50% relative humidity.
Installation notes

- The units are intended for indoor installation only
- Space saving stacked installation possible

8 HP unit = 149 kg
10 HP unit = 150 kg

- Heat rejection from electronics

  The electronics of the unit emit considerable heat – 640 W on the 8HP, 710 W on the 10HP – make sure you account for this in the choice of location of the “outdoor unit” - the room must be sufficiently ventilated and its temperature should not exceed 40°C (i.e. free-cooling is usually sufficient)

- Filters on water loop
  - New on VRV IV-W, a water filter is standard included with the unit!
  - Connections: G1 ¼”; Mesh size 0.5mm; Design pressure 2.0MPa

Required and recommended equipment on water loop

- Filter (included with unit)
- Required!
Installation notes

Variable Water Flow control – on request

- On request, the VRV IV-W can provide a 13-step control signal to a motor-operated valve on the water loop.

Connection cable (weak voltage)

Motor valve

VRV unit control the motor valve by maximum 13 steps due to inverter compressor frequency.

VRV unit change the valve step every 15 minutes to avoid hunting of compressor, pump and another control.

The installer have to choose the minimum step at test run by field settings of water cooled VRV pcb to keep minimum flow rate (50lt/min).

Geothermal system in open loop to keep water temperature within operation range

Open loop systems draw ground water directly into the building and heat or cool the heat pumps.

When ground water, lake water, river water or sea water is freely available it can be very economic to use it!

Remark: watch out for corrosion and dirt => if any doubt use heat exchanger!!
Geothermal systems utilize the heat accumulated in ground (this heat is continually supplied by sun).

At a depth of approximately 10 meters the ground temperature remains fairly constant with an average temperature between 10-20°C year-round (Europe), depending on the region, terrain and soil type.

- **Vertical loops** run perpendicular to the surface and the holes can be several hundred meters deep (80-200 m). At these depths, the undisturbed ground temperature does not change throughout the year.

- **Horizontal loops** run piping parallel and close to the surface (1-2 m). The undisturbed ground temperature naturally change with the seasons.

VRV IV-Q Replacement VRV Heat Pump

- Get rid of R22 easily!
  - Keep old R22 piping
  - Keep old indoor units and controllers (Daikin K-series and newer)
  - Low installation costs
  - Low disruption caused by the installation
  - High reliability
  - Newest VRV IV technology

- Applicable also on non-Daikin R22 VRF systems

### Approximate cooling capacity [kW]
| VRV IV-Q Replacement | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
|-----------------------|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| VRV Heat Pump RXYQQ-T | 64 | 65 | 67 | 71 | 77 | 83 | 89 | 94 | 98 | 105 | 111 | 116 | 120 | 126 | 132 | 138 | 143 | 147 | 151 | 157 | 163 | 170 |

### Approximate heating capacity [kW]
| VRV IV-Q Replacement | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
|-----------------------|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| VRV Heat Pump RXYQQ-T | 13 | 14 | 15 | 17 | 19 | 22 | 24 | 26 | 28 | 32 | 36 | 40 | 45 | 49 | 56 | 62 | 67 | 72 | 71 | 77 | 83 | 89 | 94 | 98 | 105 | 111 | 116 | 120 | 126 | 132 | 138 | 143 | 147 | 151 | 157 | 163 | 170 |
VRV III-Q Replacement VRV Heat Recovery
RQCEQ-P

Get rid of R22 easily!
- Keep old R22 piping
- Keep old indoor units and controllers (Daikin K-series and newer)
- Low installation costs
- Low disruption caused by the installation
- High reliability
- Newest technology

Applicable also on non-Daikin R22 VRF systems

| VRV III-Q Replacement VRV Heat Recovery RQCEQ-P | 6 6 8 10 12 14 16 20 22 24 28 30 32 34 36 40 42 44 46 48 50 52 |
| Approximate cooling capacity [kW] | 11 14 16 22 28 36 40 45 49 56 62 67 71 77 83 89 94 98 105 111 116 120 126 |
| Approximate heating capacity [kW] | 13 16 18 25 32 40 45 50 57 63 69 75 82 88 94 102 107 113 119 126 132 138 145 151 |

Part 3 – Daikin VRV Indoor Unit Range

Indoor Units
Features
Functions
Options
One of the widest ranges in the industry

Standard indoor units
- 14 model types
- 78 capacity sizes

Special indoor units
- > 11 model types
Details

Standard Units

Round-flow ceiling mounted cassette FXFQ-A

- Round-flow discharge
- 360° out-blow of air, unique in the industry
- Individually and intelligently controllable swing-flaps
- Direct air away from persons – manually or automatically using the presence sensors
- Low noise
- 28 dB(A) on low fan speed till size 63
- Very low installation height
- 214 mm for units up to size 63
- Comfort and convenience functions
- 3 selectable fan speeds
- Ceiling soiling & Draft prevention
**Decoration panels**

**BYCQ140D**  
White panel with grey discharge elements

**BYCQ140DW**  
White panel with white discharge elements

**BYCQ140DG**  
Auto-cleaning panel

**INDUSTRY FIRST!**

- Automatically cleans air filter every night
- Stores dust internally in a dust box
- Indicates when dust box is full (approx. 6 months in clothes shop)
- Dust collected using a normal vacuum cleaner (extension tube provided)
- Saves energy and maintenance costs!
  - A dirty filter causes less air flow. To maintain capacity, the system decreases the evaporation temperature → more work for the compressor, after one year of not cleaning the filter, consumption can increase anywhere from 20% to 100%

10% to 50% higher energy consumption when filter is cleaned once per year compared to daily cleaning

**Decoration panels – Unique features**

**BYCQ140DG**  
Auto-cleaning panel

**INDUSTRY FIRST!**

- Must be used together with the new BRC1E- wired remote controller
- IR wireless remote controller cannot be used
- Not compatible with the fresh air intake kit
- Increases the installation height by 8 cm

Besides the energy saving potential, there’s also an aesthetic benefit:
Unique features

Sensor option BRYQ140A

1) Uses an IR presence sensor to detect persons in the room, and to...
   ... divert the air away from persons using the individually controllable swing-flaps – Especially useful in heating mode, where air is normally blown down to prevent stratification

... activate an energy saving mode, increasing the set-point or even turning the unit off

Estimation of Energy Saving: Up to 27%

If no person is detected for X minutes
Turn off the unit
Shift set-point by Y°C to save energy
X and Y can be freely configured

2) Uses an IR floor temperature sensor to detect potential air stratification and uses the individual swing flap control to divert the air to compensate

High air stratification effect detected
(presence of persons has priority)
Fully-Flat cassette (600x600) FXZQ-A

- Uniquely designed decoration panel
  - Fully Flat – protrudes only 8 mm from the ceiling and is completely flat, making blend in with the ceiling
  - 600x600 design – panel does not overlap neighboring tiles
- Individually and intelligently controllable swing-flaps
  - Direct air away from persons with the remote controller or automatically using the presence sensors
- Quietest unit in the market

<table>
<thead>
<tr>
<th>Capacity class</th>
<th>25</th>
<th>35</th>
<th>50</th>
<th>60</th>
<th>71</th>
<th>100</th>
<th>125</th>
<th>140</th>
<th>200</th>
<th>250</th>
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<tbody>
<tr>
<td>FFQ-C</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Coating capacity [kW]
  - 2.5  | 3.4  | 5.0  | 5.7  | 6.8  | 9.5  | 12.0 | 13.4 | 20.0 | 24.1 |
- Heating capacity [kW]
  - 3.2  | 4.5  | 6.0  | 7.0  | 7.5  | 10.8 | 13.5 | 15.1 | 23.0 | 26.4 |

Decoration panels – Unique features

BYFQ60CW
Fully Flat panel, white design

BYFQ60CS
Fully Flat panel, silver-white design

BYFQ60B3
Legacy design panel (outlook same as previous generation)

Does not overlap neighbouring tiles, making it possible to utilize them for other utilities (lights, sprinkler systems, speakers, etc.)

Protrudes only 8 mm from the ceiling bottom and is fully flat, making the unit appear flush with the ceiling.
Fully-Flat cassette (600x600)
FXZQ-A

Unique features

1) Sensor option BRYQ60A(W/S)

- Uses an IR presence sensor to detect persons in the room, and to:
  - ... divert the air away from persons using the individually controllable swing-flaps – Especially useful in heating mode, where air is normally blown down to prevent stratification

- Without sensor:... activate an energy saving mode, increasing the set-point or even turning the unit off

- Requires the BRC1E52- series controller

<table>
<thead>
<tr>
<th>Ceiling height (m)</th>
<th>2.7</th>
<th>3.2</th>
<th>3.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensed area – presence sensor: diameter (m)</td>
<td>8.5</td>
<td>10.8</td>
<td>12.1</td>
</tr>
</tbody>
</table>

---

2) Sensor option BRYQ60A(W/S)

- Uses an IR floor temperature sensor to detect potential air stratification and uses the individual swing flap control to divert the air to compensate

- Requires the BRC1E52- series controller

<table>
<thead>
<tr>
<th>Ceiling height (m)</th>
<th>2.7</th>
<th>3.2</th>
<th>3.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensed area – floor sensor: diameter (m)</td>
<td>11.1</td>
<td>13.2</td>
<td>14.4</td>
</tr>
</tbody>
</table>
2-Way blow ceiling mounted cassette
FXCQ-A

- Wide capacity range
  - From 2.2 to 14.0 kW cooling
- Easy service
  - Access to electrical box through suction grille
  - Easy cleaning thanks to completely flat suction panel and removable swing flaps
- Comfort and convenience functions
  - Individually controllable swing-flaps
  - Ceiling soiling prevention
  - Draft prevention

<table>
<thead>
<tr>
<th>Capacity class</th>
<th>20</th>
<th>25</th>
<th>32</th>
<th>40</th>
<th>50</th>
<th>63</th>
<th>71</th>
<th>80</th>
<th>100</th>
<th>125</th>
<th>140</th>
<th>160</th>
<th>200</th>
<th>250</th>
</tr>
</thead>
<tbody>
<tr>
<td>FXCQ-A</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Cooling capacity [kW]</td>
<td>2.2</td>
<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
<td>5.6</td>
<td>7.1</td>
<td>8.0</td>
<td>9.0</td>
<td>11.2</td>
<td>14.0</td>
<td>16.0</td>
<td>22.4</td>
<td>28.0</td>
<td></td>
</tr>
<tr>
<td>Heating capacity [kW]</td>
<td>2.5</td>
<td>3.2</td>
<td>4.0</td>
<td>5.0</td>
<td>6.3</td>
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<td>10.0</td>
<td>12.5</td>
<td>16.0</td>
<td>18.0</td>
<td>25.0</td>
<td>31.5</td>
<td></td>
</tr>
</tbody>
</table>

Ceiling mounted corner cassette
FKQ-MA

- Extremely slim for small ceiling spaces
  - Installation height of only 220 mm
- Versatile application
  - Possibility to discharge into a duct
  - Can work from ceilings up to 3.8 m high
- Easy service
  - Access to electrical box through suction grille
- Comfort and convenience functions
  - Ceiling soiling prevention
  - Draft prevention
- Suitable for technical room cooling

<table>
<thead>
<tr>
<th>Capacity class</th>
<th>20</th>
<th>25</th>
<th>32</th>
<th>40</th>
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<tbody>
<tr>
<td>FXKQ-MA</td>
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</tr>
<tr>
<td>Cooling capacity [kW]</td>
<td>2.2</td>
<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
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<td>11.2</td>
<td>14.0</td>
<td>16.0</td>
<td>22.4</td>
<td>28.0</td>
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<td>3.2</td>
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<td>9.0</td>
<td>10.0</td>
<td>12.5</td>
<td>16.0</td>
<td>18.0</td>
<td>25.0</td>
<td>31.5</td>
<td></td>
</tr>
</tbody>
</table>
Ceiling suspended unit
FXHQ-A

- Powerful and effective
  - Wide 110° air discharge
  - Suitable for ceilings up to 3.5 m high

- Easy maintenance
  - Electrical box and fan motors can be accessed via the suction opening

- Ideal unit for refurbishment projects
  - Requires no false ceiling
  - Saves wall space

- Suitable for technical room cooling

4-Way blow ceiling suspended unit
FXUQ-A

- Unique in the industry
  - 4-way air distribution without needing a false ceiling – only by Daikin

- Individually and intelligently controllable swing-flaps

- Powerful
  - Suitable for ceilings up to 3.8 m high

- Ideal unit for refurbishment projects
  - Requires no false ceiling
  - Saves wall space

- Suitable for technical room cooling
Market overview

- Flexible installation
  - Convenience of a cassette unit
  - Installable even where there are no false ceilings

- Variable air distribution
  - Up to two outlets can be closed, creating a 3-way or a 2-way blow unit

- Not concealed and yet still quiet
  - 71-class unit HI/LO: 40/36 dB(A)
  - 100-class unit HI/LO: 47/40 dB(A)

- Fully loaded
  - Drain pump (500 mm lift) equipped as standard

- Competition:
  - No other company offers a comparable unit

Unique features

- Individual flap control
  Every swing flap of the decoration panel can be operated individually to customize the air-flow direction to the installation location, e.g. to prevent blowing at a person

- Discharge outlets of the panel can be closed using an optional accessory KDBHP49B140 & KDBTP49B140

- A field setting must be made on the units' remote controller when closing outlets
Wall mounted unit
**FXAQ-P**

- **New stylish design**
- In line with Daikin residential range
- **Small capacity**
  - Available in 15-class, ideal for small offices and today’s better insulated buildings
- **Easy maintenance**
  - Flat front panel and swing flap can be easily removed and washed
  - All service work can be carried out from the front of the unit without taking it off the wall
- **Ideal unit for refurbishment projects**
  - Requires no false ceiling
  - Takes up little space

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Floor standing unit
**FXLQ-P**

- **New stylish design**
  - Pure white (RAL9010) finish
- **Flexible installation**
  - Floor standing by wall
  - Wall mounted
  - Free standing (with optional back panel)

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Concealed floor standing unit

FXNQ-P

- Compact
  - Only 22 cm deep and 61 cm high

- Flexible installation
  - Floor standing
  - Wall mounted

- Ideal for installation within a windowsill

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NEW Vertical duct unit

FXNQ-A

- Most compact unit on the market
  - Only 20 cm deep!

- Powerful
  - Over 40Pa maximum ESP

- Quiet
  - Targeted to be one of the most quiet units of this type on the market

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Concealed ceiling unit - small
FXDQ-M9

- Designed for hotel rooms:
- Very compact
  - 230 x 502 x 652 mm (HxWxD)
- Very versatile
  - Suction from back or from bottom
  - Choice of drain outlet side
  - Air filter standard

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Concealed ceiling unit - slim
FXDQ-A

- Extremely slim for small ceiling spaces
- Installation height of only 240 mm
- Improved user comfort
  - 3 fan speeds can be selected
- Small capacity
  - Available in 15-class, ideal for small offices and today’s better insulated buildings
- Very versatile
  - Suction from back or from bottom
  - Enough ESP for moderate ducting
- Equipped
  - Air filter standard
  - Drain pump standard

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Concealed ceiling unit - standard
FXSQ-P

- Easy to install and set up
  - Offers the unique Automatic Airflow Adjustment function
  - Over 10 fan curves can be selected
- Improved user comfort
  - 3 fan speeds can be selected
- Wide capacity range
  - From 2.2 to 16.0 kW cooling
- Very versatile
  - Suction from back or from bottom
  - Enough ESP for long ducting
- Equipped
  - Drain pump standard

### Capacity class

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### Automatic Airflow Adjustment function

- Automatically selects the most appropriate fan curve to achieve the units’ nominal air flow within ±10%

- Why? Real ducting will frequently have different air flow resistance then initially calculated
  → the real air flow may be much lower or higher than nominal
  → lack of capacity or uncomfortable air temperature

Automatic Airflow Adjustment function will adapt the unit’s fan speed to any ducting (10 or more fan curves are available on every model)

⚠️ If Automatic Airflow Adjustment shouldn’t be used for any reason, any of the fan curves (≥10) can be selected manually using the remote controller
Concealed ceiling unit - standard

- Aimed to become the best duct unit in the market
  - Thinnest with just 245 mm!
  - Powerful with up to 150Pa ESP
  - One of the quietest with as low as 31 dB(A) / ≤ 54 dB(A) sound pressure / power levels
  - With the unique Automatic Airflow Adjustment function
  - Up to 15 fan curves can be selected
  - ... and more

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Concealed ceiling unit - high ESP

- Easy to install and set up
  - Offers the unique Automatic Airflow Adjustment function
  - Up to 15 fan curves can be selected
  - Suitable for complex ducting
  - ESP of up to 200 Pa
  - Improved user comfort
  - 3 fan speeds can be selected
  - Very versatile
  - Suction from back or from bottom
  - Equipped
  - Drain pump standard

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Concealed ceiling unit - large
FXMQ-MA

- Powerful units
  - ESP up to 270 at nominal air flow
  - Nominal air flow up to 4,320 m³/h
  - Cooling capacity up to 28 kW

- Versatile
  - Two ESP levels can be selected from electrical box

- For central technical room installation

### Capacity class

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Part 3 – Daikin VRV Indoor Unit Range

Details

Special Units
Biddle air curtains for Daikin VRV CYV-DK-F, CYV-DK-C, CYV-DK-R

- Up to 85% separation efficiency
  (closed door = 100%, open door = 0%)
- Rectifier technology – European patent
  - High separation efficiency
  - Low energy losses
  - Low discomfort for passing persons
- Connectable to almost all VRV systems
- Capable of serving doors up to 3.0 m high and 2.5 m wide
- Available in three casing / installation types

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### Heating capacity (kW)

- CYV-DK-F
  - 2.5, 3.2, 4.0, 5.0, 6.3, 8.0, 9.0, 10.0, 12.5, 16.0, 18.0, 20.0, 25.0, 31.5

---

Biddle air curtain range for Daikin VRV

Biddle air curtain for Daikin VRV

- Fan power class: S = Small, M = Medium, L = Large
  - Decides how high door can the air curtain serve
    (e.g. L: up to 3.0 m in favorable installation conditions)
- Maximum door width (in cm): 100, 150, 200, 250
- For Daikin direct expansion
- Capacity class (in terms of VRV capacity index): 80, 100, 125, 140, 200, 250
- Installation type: F = Free hanging, C = Cassette, R = Recessed (ducted)
- Color: B = Traffic White (RAL9016), S = Grey (RAL9006)
- Controller included as standard (always)
Heat Reclaim Ventilation
VAM-FA

- Cost effective …
- Compact …
- Highly efficient …
- … solution to your ventilation needs

- Temperature exchange efficiency up to 75%
- Enthalpy exchange efficiency up to 66%
- Drastic reduction of heating / cooling loads due to ventilation

<table>
<thead>
<tr>
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<th>250</th>
<th>350</th>
<th>500</th>
<th>650</th>
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<td>93</td>
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<td>157</td>
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Heat Reclaim Ventilation with DX coil
VKM-G-

- HRV unit which simultaneously pre-heats or pre-cools the fresh air
- Offers users optimum air quality at the best efficiency
- Heat and humidity is first recovered from exhaust air
- If necessary, the fresh air is still heated or cooled to bring it closer to the desired indoor level
- Optionally with humidification

<table>
<thead>
<tr>
<th>VKM class</th>
<th>50</th>
<th>80</th>
<th>100</th>
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<tbody>
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<td>VKM-G</td>
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<tr>
<td>Ventilation rate [m³/h]</td>
<td>500</td>
<td>750</td>
<td>950</td>
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Air Handling Unit Connection Kit
EKEQ(M/F)CB + EKEXV-

- Integrated air conditioning and air handling solution from one supplier!
- Connect any Air Handling Unit to any VRV!
  - Even geothermal-sourced VRV IV-W possible!
- Efficiency of DX system both for cooling and for heating!
- Unique application for Daikin VRV Heat Recovery with continuous heating during defrost capability!
- Now with 400- and 500-class expansion valves! (from 2015)

<table>
<thead>
<tr>
<th>Capacity class</th>
<th>20</th>
<th>25</th>
<th>32</th>
<th>40</th>
<th>50</th>
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<th>125</th>
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<th>400</th>
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<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
<td>5.6</td>
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<td>8.0</td>
<td>9.0</td>
<td>11.2</td>
<td>14.0</td>
<td>16.0</td>
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<td>25.0</td>
<td>31.5</td>
<td>50.0</td>
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Low Temperature Reversible Hydrobox for VRV
HXY-A

- Heat or cool water with the new VRV IV Heat Pump
- Fully integrated leaving water temperature control from Daikin
  - Cooling: +5° C ~ +25° C
  - Heating: +25° C ~ +45° C
- All hydraulic equipment integrated
  - Safety valve, expansion vessel, air-purge valve, inverter pump, water filter, back-up heater
- For space heating and space cooling

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<thead>
<tr>
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<th>20</th>
<th>25</th>
<th>32</th>
<th>40</th>
<th>50</th>
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<th>125</th>
<th>140</th>
<th>200</th>
<th>250</th>
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<td>14.0</td>
<td>16.0</td>
<td>22.4</td>
<td>28.0</td>
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<tr>
<td>Heating capacity [kW]</td>
<td>2.5</td>
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<td>25.0</td>
<td>31.5</td>
</tr>
</tbody>
</table>
High Temperature Heating-only Hydrobox for VRV HXHD-A

- Heat water to up to 80° C with the VRV III Heat Recovery into water system
- Get free energy into water, using recovered heat from DX cooling units
- Fully integrated leaving water temperature control from Daikin
  - Heating: +25° C ~ +80° C
- All hydraulic equipment integrated
  - Safety valve, expansion vessel, air-purge valve, inverter pump, water filter, flexible connection piping
- For space heating and sanitary water heating

### HXHD-A

<table>
<thead>
<tr>
<th>Capacity class</th>
<th>20 25 32 40 50 63 71 80 100 125 140 200 250</th>
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<tbody>
<tr>
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<tr>
<td>Heating capacity [kW]</td>
<td>2.5 3.2 4.0 5.0 6.3 9.0 12.5 16.0 18.0 20.0 23.5 25.0 31.5</td>
</tr>
</tbody>
</table>

### Split & SkyAir indoor units

- More quiet
  - Expansion valve separate from indoor unit
- More end-user oriented
  - 5 selectable fan speeds + automatic fan speed control
- More elegant
  - Including the award-winning Daikin Emura

### Applicable for:

- VRV IV Heat Pump – single modules - RYYQ-T / RXYQ-T
- VRV III-S – RXYSQ-P8
- VRV IV-SC – RXYSCQ-T

### Split & SkyAir Selected Split and SkyAir units

<table>
<thead>
<tr>
<th>Capacity class</th>
<th>15 20 25 32 40 50 63 71 80 100 125 140 200 250</th>
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<tbody>
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<tr>
<td>Heating capacity [kW]</td>
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® Daikin
### Split indoor units for connection to VRV

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Approx. nominal Cooling capacity [kW]

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Approx. nominal Heating capacity [kW]

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### SkyAir indoor units for connection to VRV

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Cooling capacity [kW]

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Heating capacity [kW]

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THANK YOU