DAIKIN FCQ SERIES
HEATING AND COOLING SYSTEMS

ROUNDFLOW SENSING
CEILING-MOUNTED CASSETTE
Up to 18.6 SEER / Up to 10.2 HSPF
Up to 13.0 EER
Feel the difference

Designed for absolute comfort, Daikin’s roundflow sensing cassette SkyAir units provide 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).

Hear the difference

Utilizing inverter technology to maintain comfort settings, Daikin systems most often operate at low speeds with indoor sound levels as low as 27 decibels (dB) and outdoor sound levels as low as 57 dB.

See the difference

A Daikin inverter system is designed for installation where space is limited, such as with zero lot lines, or limited to roof, wall or terrace areas. The compact and lightweight design, when compared to traditional solutions allows the Daikin inverter system to be used in homes with the strictest of limitations with relative ease.

New drain pan

Newly designed drain pan on outdoor unit to help prevent condensate from freezing and causing damage to the fan and coil.

Knowledge is power

In general, system performance is measured by a higher Seasonal Energy Efficiency Ratio (SEER) and Energy Efficiency Ratio (EER). Higher ratings mean lower operating costs. Similarly, a higher rated Heating Seasonal Performance Factor (HSPF) and Coefficient of Performance (COP) means a more efficient air-source heat pump.

Why is it important?

The COP of a heat pump is the ratio of: \[
\text{COP} = \frac{\text{energy out}}{\text{energy in}}
\]

When the COP is >1, the result is a system providing more heating energy than energy consumed. As the COP increases, the higher the efficiency — resulting in lower utility costs.
Individual comfort and control

Individual temperature control provides comfort for the entire space. With effective cooling and heating coverage at quiet operating sound levels, these systems combine superior comfort control with lifestyle convenience all at the touch of a button.

Premium comfort features:

- Energy Efficient – 18.6 SEER, 10.2 HSPF, up to 13.0 EER – Variable Speed Inverter Compressor
- Cooling Range 23° - 122°F
- Heating Range -4° - 60°F
- Capacity range from 1.5 - 4 tons
- 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
- 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
- Enhanced indoor air quality and LEED ready with MERV 13 filter options
- Low-Ambient cooling operation down to 0°F (with optional Air Adjustment Grille(s))

Outdoor unit features:

- **Anti-Corrosion Treatment on Heat Exchanger**
- **Auto-Restart** – The unit memorizes the operation mode, airflow and temperature settings. Should there be a power failure when the unit is in operation, it will automatically return to the same operating conditions when the power is restored.
- **Self-Diagnosis** – In the event that a problem develops with the unit, malfunction codes can be displayed on the liquid crystal panel of the remote control for fast and easy fault diagnosis.

**Self-Cleaning Air Filter Panel**

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

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

**4-Way Flow vs. Round Flow**

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

Areas of uneven temperature

Much fewer areas of uneven temperature
Comfort
We offer a wide range of products, and always provide you with the ideal solution, whether for an apartment, condo or a house. Our units are whisper quiet and, with their specially designed airflow pattern, they create your ideal indoor climate.

Daikin units are designed to include features that let you create your own unique ecosystem. From the wide-angle louver design to the auto-swing and comfortable mode controller settings, effective heating and cooling is ensured throughout the space.

Smart inverter technology
Integrated with an inverter variable-speed compressor, Daikin systems deliver the capacity required to maintain desired room conditions, typically reducing energy consumption by up to 30% or more (compared to traditional fixed-speed ducted systems). This technology minimizes temperature fluctuations and provides continuous cooling and heating comfort.

Energy efficiency
Our products are designed to be highly efficient all year round, and their low energy consumption is reflected in low energy bills for you.

Flexibility
With space saving design, wide operation range and long pipe lengths you have maximum flexibility in your design to suit your needs.

Reliability
Daikin products are renowned for their reliability. And you can rely on service to match, with industry leading warranties.*

*Complete warranty details available from your local dealer or at www.daikincomfort.com.
## FCQ Series Heating and Cooling Systems
### Roundflow Sensing Ceiling-Mounted Units

<table>
<thead>
<tr>
<th>Model</th>
<th>Indoor Unit</th>
<th>Outdoor Unit (Cooling Only)</th>
<th>Outdoor Unit (Heat Pump)</th>
<th>Capacity Rated Btu/h</th>
<th>COP Rated*</th>
<th>SEER</th>
<th>HSPF*</th>
<th>Piping Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FCQ18TAVJU</td>
<td>RZR18TAVJU</td>
<td>RZQ18TAVJU</td>
<td>18,000</td>
<td>4.2</td>
<td>18.6</td>
<td>10.1</td>
<td>Liquid: Ø 3/8 (Ø 9.5)</td>
</tr>
<tr>
<td></td>
<td>FCQ24TAVJU</td>
<td>RZR24TAVJU</td>
<td>RZQ24TAVJU</td>
<td>20,000</td>
<td>3.8</td>
<td>18.5</td>
<td>10.2</td>
<td>Gas: Ø 5/8 (Ø 15.8)</td>
</tr>
<tr>
<td></td>
<td>FCQ30TAVJU</td>
<td>RZR30TAVJU</td>
<td>RZQ30TAVJU</td>
<td>23,800</td>
<td>4.5</td>
<td>17.2</td>
<td>10.2</td>
<td>Drain: Ø 1 (Ø 25.4)</td>
</tr>
<tr>
<td></td>
<td>FCQ36TAVJU</td>
<td>RZR36TAVJU</td>
<td>RZQ36TAVJU</td>
<td>27,000</td>
<td>4.3</td>
<td>17.6</td>
<td>8.6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FCQ42TAVJU</td>
<td>RZR42TAVJU</td>
<td>RZQ42TAVJU</td>
<td>30,000</td>
<td>4.0</td>
<td>17</td>
<td>9.3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FCQ48TAVJU</td>
<td>RZR48TAVJU</td>
<td>RZQ48TAVJU</td>
<td>33,800</td>
<td>3.7</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FCQ48TAVJU</td>
<td>RZR48TAVJU</td>
<td>RZQ48TAVJU</td>
<td>36,000</td>
<td>3.7</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FCQ48TAVJU</td>
<td>RZR48TAVJU</td>
<td>RZQ48TAVJU</td>
<td>40,000</td>
<td>3.7</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FCQ48TAVJU</td>
<td>RZR48TAVJU</td>
<td>RZQ48TAVJU</td>
<td>41,500</td>
<td>3.7</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FCQ48TAVJU</td>
<td>RZR48TAVJU</td>
<td>RZQ48TAVJU</td>
<td>47,000</td>
<td>3.7</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FCQ48TAVJU</td>
<td>RZR48TAVJU</td>
<td>RZQ48TAVJU</td>
<td>48,000</td>
<td>3.7</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FCQ48TAVJU</td>
<td>RZR48TAVJU</td>
<td>RZQ48TAVJU</td>
<td>54,000</td>
<td>3.7</td>
<td>17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Outdoor Unit Specifications

<table>
<thead>
<tr>
<th>Compressor</th>
<th>Motor Output</th>
<th>W</th>
<th>Commercial Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-410A</td>
<td>1,900</td>
<td>3,500</td>
<td>Turbo Fan</td>
</tr>
</tbody>
</table>

### Fan Type

- H: High
- M: Medium
- L: Low

### Air Direction Control

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Item #</th>
<th>Self-Cleaning Filter Panel</th>
<th>Standard Sensing Decoration Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navigation Remote Controller</td>
<td>BRC1E73</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Remote Sensor Kit</td>
<td>KRD301-4B</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Outside Air Intake Kit</td>
<td>Not Available</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Long-Life Replacement Air Filter</td>
<td>Not Available</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Panel Spacer</td>
<td>KSBP5SH160F</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Optional face plates available to provide a more intuitive user interface and disable specific functions.
Ease of installation
Connected by a pair of refrigerant lines, few electrical connections, and no ductwork, indoor and outdoor units can be easily installed in existing spaces with minor disruption and often in a single day’s work. The compact and lightweight designs combined with piping lengths up to 230 ft and minimal wiring allow installation with minimal time and costs.

**FCQ18/24/30/36/42/48TAVJU**

Space required for installation (in.)

**Figure 1**

At least 70” from the floor.

**Figure 2**

For **RZR18/24/30/36/42/48TAVJU, RZQ18/24/30/36/42/48TAVJU**

Space required for installation (in.)

(A) When an obstruction is present on the air inlet side
» When the upward area is open
  (1) When one outdoor unit is installed individually
» When an obstruction is present only on the air inlet side
» When an obstruction is present also on the air inlet side

(A) When an obstruction is present on the air inlet side
» When the upward area is open
  (1) When one outdoor unit is installed individually
» When an obstruction is present only on the air inlet side
» When an obstruction is present also on the air inlet side

» When an obstruction is present on both sides
» When an obstruction is present on the air inlet side and both sides

» When an obstruction is present also on the air inlet side and both sides

*At least 70” from the floor.*
**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 the world’s No. 1 air conditioning company. 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.

---

**Canada ENERGY GUIDE**

Seasonal Energy Efficiency Ratio (SEER) Ductless Air Conditioner

**This Model:**

17.0-18.6

13.0 — Uses least energy —> 27.0

**Canada ENERGY GUIDE**

Seasonal Energy Efficiency Ratio (SEER) Ductless heat pump

**This Model:**

17.0-18.6

14.0 — Uses least energy —> 42.0