



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





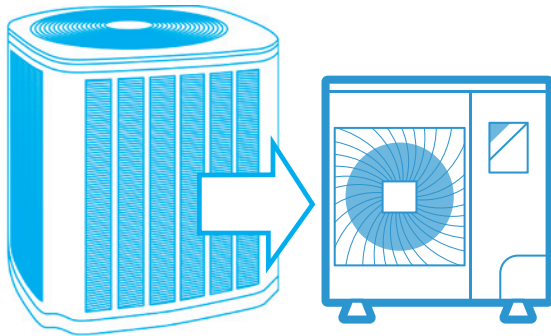
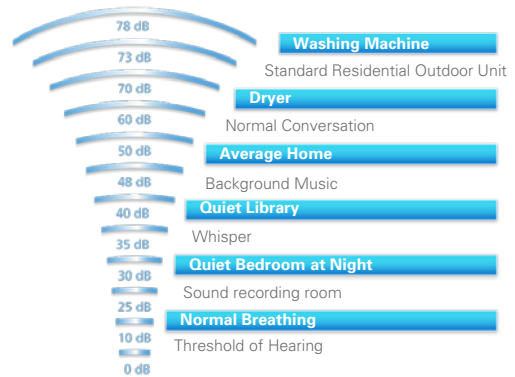
Feel the difference

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.

Sound levels as low as:



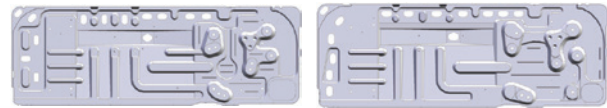
See the difference

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.

**100% heating capacity at -4°F (-20°C)
 for systems up to 3 tons
 (heat pump only)**

New drain pan

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



Single fan drain pan

Double fan drain pan

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: $COP = \frac{\text{energy out}}{\text{energy in}}$
 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.

	Up to	
	18.6	13.0
	SEER	EER
	<hr/>	
	10.2	4.5
	HSPF	COP
	<small>(Coefficient of Performance)</small>	
	Inverter Ducted Heat Pump Efficiency ratings	



FCQ Series

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

Outdoor unit features:



Anti-Corrosion Treatment on Heat Exchanger



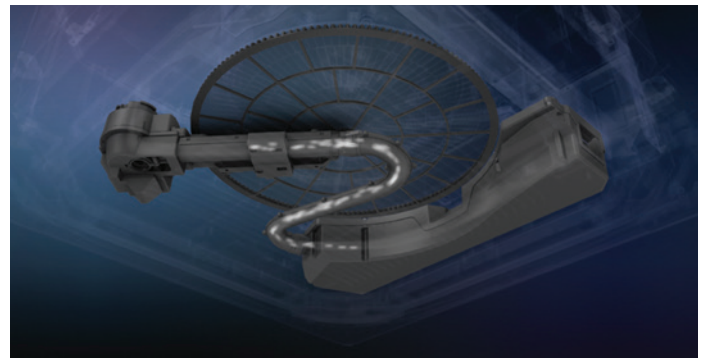
Auto-Restart – The unit memorizes the operation mode, airflow and temperature settings. Should there be a power failure when the unit is in operation, it will automatically return to the same operating conditions when the power is restored.



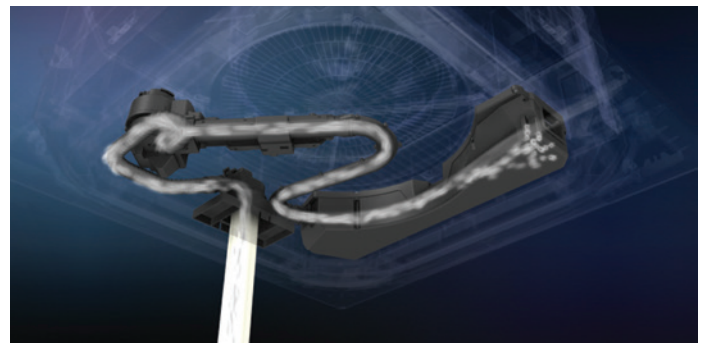
Self-Diagnosis – In the event that a problem develops with the unit, malfunction codes can be displayed on the liquid crystal panel of the remote control for fast and easy fault diagnosis.



Self-Cleaning Air Filter Panel



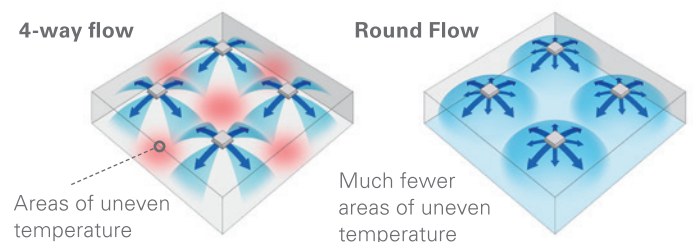
Dust from the air filter brush is deposited into the dust collection container during the fully automatic self-cleaning process.



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.





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

Model	Indoor Unit		FCQ18TAVJU		FCQ24TAVJU		FCQ30TAVJU		FCQ36TAVJU		FCQ42TAVJU		FCQ48TAVJU	
	Outdoor Unit (Cooling Only)		RZR18TAVJU		RZR24TAVJU		RZR30TAVJU		RZR36TAVJU		RZR42TAVJU		RZR48TAVJU	
	Outdoor Unit (Heat Pump)		RZQ18TAVJU		RZQ24TAVJU		RZQ30TAVJU		RZQ36TAVJU		RZQ42TAVJU		RZQ48TAVJU	
			Cooling	Heating*	Cooling	Heating*	Cooling	Heating*	Cooling	Heating*	Cooling	Heating*	Cooling	Heating*
Capacity Rated	Btu/h		18,000	20,000	23,800	27,000	30,000	33,800	36,000	40,000	41,500	47,000	48,000	54,000
COP Rated*			4.2		3.8		4.5		4.3		4.0		3.7	
EER Rated			13		12		9.3		11.4		10.3		9	
SEER			18.6		18.5		17.2		17.6		17		17	
HSPF*			10.1		10.2		10.2		9		8.6		9.3	
Piping Connections	Liquid	in. (mm)	Ø 3/8 (Ø 9.5)											
	Gas		Ø 5/8 (Ø 15.8)											
	Drain		Ø 1 (Ø 25.4)											
Max. Interunit Piping Length	ft. (m)		164 (50)				230 (70)							
Max. Interunit Height Difference			98.4 (30)											
Chargeless	Lbs (kg)		15 (4.5)											
Amount of Additional Charge of Refrigerant	lb/ft (kg/m)		0.036 (0.0535)											
Operating Range - Cooling	°F DB (°C DB)		23° – 122° F (-5 – 50° C)											
Operating Range - Heating*	°F WB (°C WB)		-4° – 60°F (-20 – 15.5° C)											
Indoor Unit		FCQ18TAVJU		FCQ24TAVJU		FCQ30TAVJU		FCQ36TAVJU		FCQ42TAVJU		FCQ48TAVJU		
Airflow Rate	H	cfm (m³/min)	742 (21.0)		777 (22.0)		1112 (31.5)		1165 (33.0)		1218 (34.5)		1218 (34.5)	
	M		618 (17.5)		618 (17.5)		918 (26.0)		918 (26.0)		971 (27.5)		971 (27.5)	
	L		477 (13.5)		477 (13.5)		671 (19.0)		671 (19.0)		742 (21.0)		742 (21.0)	
Fan Type	Turbo Fan													
Air Direction Control	N/A													
Air Filter	N/A													
Dimensions (H x W x D)	in. (mm)		10-1/16 x 33-1/16 x 33-1/16 (256 x 840 x 840)				11-23/32 x 33-1/16 x 33-1/16 (298 x 840 x 840)							
Weight	Lbs (kg)		63 (28.5)				70 (31.5)							
Sound Pressure Level (H / M / L / SL)	dB(A)		35.5 / 32 / 28		36 / 32 / 28		43.5 / 38 / 32		44 / 38 / 32		45 / 40 / 35			
Outdoor Unit		RZR18TAVJU / RZQ18TAVJU		RZR24TAVJU / RZQ24TAVJU		RZR30TAVJU / RZQ30TAVJU		RZR36TAVJU / RZQ36TAVJU		RZR42TAVJU / RZQ42TAVJU		RZR48TAVJU / RZQ48TAVJU		
Compressor	Motor Output	W	1,900				3,500							
Refrigerant	Type		R-410A											
	Charge	Lbs (kg)	6.4 (2.9)				7.9 (3.6)							
Airflow Rate	H	cfm (m³/min)	2682 (76)				3,741 (106)							
Dimensions (H x W x D)	in. (mm)		39 x 37 x 12-5/8 (990 x 940 x 320)				52-15/16 x 35-7/16 x 12-5/8 (1345 x 900 x 320)							
Weight	Lbs (kg)		172 (78)				225 (102)							
Sound Pressure Level	H	dB(A)	58	61*	58	61*	57	59*	57	59*	57	59*	57	59*

*Applicable to heat pump models only, refer to installation manual for more details.

Air Adjustment Grille	
KPW5E112	RZR18TAVJU, RZR24TAVJU, RZQ18TAVJU, RZQ24TAVJU
KPW5E80 (X2)	RZQ30TAVJU, RZQ36TAVJU, RZQ42TAVJU, RZQ48TAVJU, RZR30TAVJU, RZR36TAVJU, RZR42TAVJU, RZR48TAVJU

FCQ Accessories with:			
Accessory	Item #	Self-Cleaning Filter Panel (BYCQ125BGW1)	Standard Sensing Decoration Panel (BYCQ125B-W1)
Navigation Remote Controller	BRC1E73 ¹	Yes ¹	Yes ¹
Remote Sensor Kit	KRCS01-4B	Yes	Yes
Outside Air Intake Kit		Not Available	Yes
Long-Life Replacement Air Filter		Not Available	Yes
Panel Spacer	KDBP55H160FA	Yes	Yes

¹ Optional face plates available to provide a more intuitive user interface and disable specific functions.

FCQ SERIES WALL-MOUNTED ROUNDFLOW SENSING CEILING-MOUNTED CASSETTE INSTALLATION

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.)

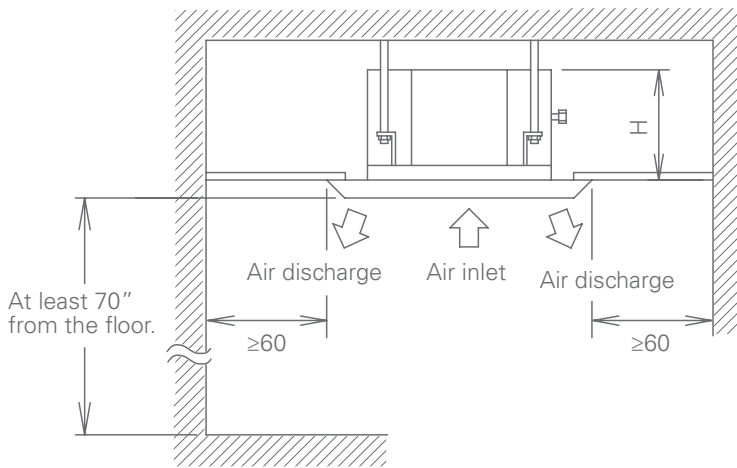


Figure 1

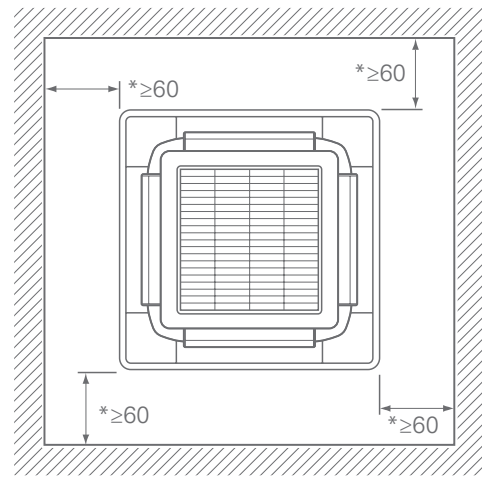


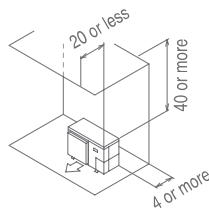
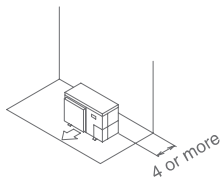
Figure 2

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

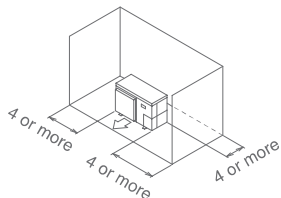
Space required for installation (in.)

(A) When an obstruction is present on the air inlet side

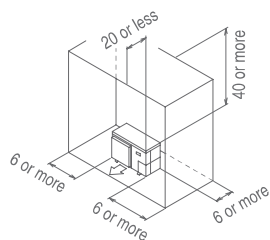
- » When the upward area is open
 - (1) When one outdoor unit is installed individually
 - » When an obstruction is present only on the air inlet side
 - (1) When one outdoor unit is installed individually
 - » When an obstruction is present also on the air inlet side



- » When an obstruction is present on both sides

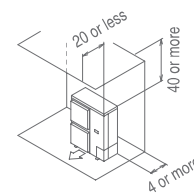
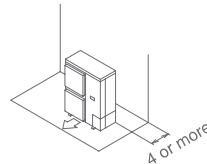


- » When an obstruction is present also on the air inlet side and both sides

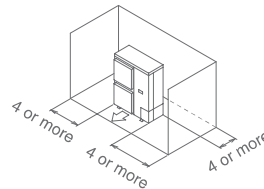


(A) When an obstruction is present on the air inlet side

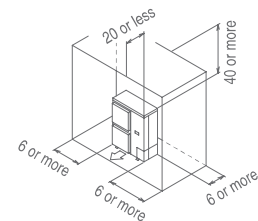
- » When the upward area is open
 - (1) When one outdoor unit is installed individually
 - » When an obstruction is present only on the air inlet side
 - (1) When one outdoor unit is installed individually
 - » When an obstruction is present also on the air inlet side



- » When an obstruction is present on both sides



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





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:

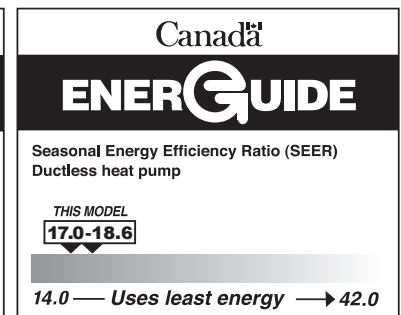
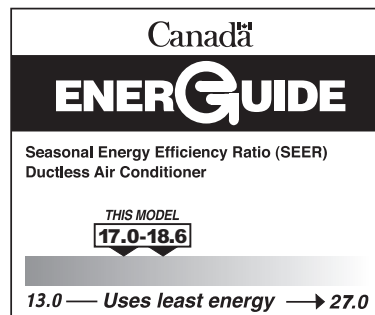
- » Always use a licensed installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- » Use only those parts and accessories supplied or specified by Daikin. Ask a 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.

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