



# DAIKIN FBQ DUCTED SERIES HEATING & COOLING SYSTEMS

DC DUCT-CONCEALED  
Up to 17.5 SEER / Up to 10.6 HSPF  
Up to 13.0 EER

# FBQ SERIES HEATING AND COOLING SYSTEMS

## DC DUCT CONCEALED

Model	Indoor Unit		FBQ18PVJU		FBQ24PVJU		FBQ30PVJU		FBQ36PVJU		FBQ42PVJU			
	Outdoor Unit (Cooling Only)		RZR18PVJU8		RZR24PVJU8		RZR30PVJU8		RZR36PVJU8		RZR42PVJU8			
	Outdoor Unit (Heat Pump)		RZQ18PVJU8		RZQ24PVJU8		RZQ30PVJU8		RZQ36PVJU8		RZQ42PVJU8			
			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating		
Capacity Rated			Btu/h		18,000	20,000	24,000	27,000	30,000	34,000	36,000	40,000	40,500	47,000
COP Rated			3.8		3.39		3.29		3.49		3.4			
EER Rated			13		12		10.5		11.1		10			
SEER			17.5		16.5		15.5		17.5		16			
HSPF			10.6		10.5		9.2		9.1		8.8			
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			164 (50)				230 (70)							
Max. Interunit Height Difference			98.4 (30)				164 (50)							
Chargeless			5.1 (2.3)				8.8 (2.6)							
Amount of Additional Charge of Refrigerant			Liquid piping length x 0.036 (0.0535)											
Operating Range - Cooling			° F DB 23° – 115°F											
Operating Range - Heating*			° F W/D 0° – 60°F					-4° – 60°F						
Indoor Unit			FBQ18PBVJU		FBQ24PBVJU		FBQ30PVJU		FBQ36PVJU		FBQ42PVJU			
Airflow Rate	H	cfm (m³/min)	635 (18)		688 (19.5)		882 (25)		1,130 (32)		1,377 (39)			
	M		582 (16.5)		618 (17.5)		794 (22.5)		953 (27)		1,165 (33)			
	L		529 (15)		565 (16)		706 (20)		812 (23)		988 (28)			
Fan Type			Sirocco Fan											
Air Direction Control			N/A											
Air Filter			N/A											
Dimensions (H x W x D)			in. (mm)		11-13/16 x 39-3/8 x 27-9/16 300 x 1000 x 700									
Weight			Lbs (kg)		80 (36)				102 (46)					
Sound Pressure Level (H / M / L / SL)			dB(A)		N/A									
Outdoor Unit			RZR18PVJU8 / RZQ18PVJU8		RZR24PVJU8 / RZQ24PVJU8		RZR30PVJU8 / RZQ30PVJU8		RZR36PVJU8 / RZQ36PVJU8		RZR42PVJU8 / RZQ42PVJU8			
Compressor Motor Output			W		1,700				2,500		3,000			
Refrigerant Type			R-410A											
Refrigerant Charge			Lbs (kg)		5.1 (2.3)				8.8 (4)					
Airflow Rate			cfm (m³/min)		1,835 (559)				3,740 (1140)					
Dimensions (H x W x D)			in. (mm)		30-5/16 x 35-7/16 x 12-5/8 (770 x 900 x 321)				52-15/16 x 35-7/16 x 12-5/8 (1345 x 900 x 321)					
Weight			Lbs (kg)		150 (68)				283 (128)					
Sound Pressure Level			dB(A)		49				58					

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

**MERV 13 Filter Kit Option contains a MERV 13 filter, adapter frame and easy to follow installation instructions and can be installed on the following models only:**

Kit Model	Indoor Units
DACA-FXMQ30-13-1K	FBQ18-30PVJU
DACA-FXMQ48-13-1K	FBQ36-42PVJU

### Enthalpy economizer (field applied accessory)

Model	Indoor Units
ECONMQ30P-8-1K (MERV 8 Filter)	FBQ18-30PVJU
ECONMQ30P-13-1K (MERV 13 Filter)	
ECONMQ48P-8-1K (MERV 8 Filter)	FBQ36-42PVJU
ECONMQ48P-13-1K (MERV 13 Filter)	

### Air Adjustment Grille

KPW5E80	RZR18PVJU8, RZR24PVJU8, RZR30PVJU8 RZR36PVJU8 (x2), RZR42PVJU8 (x2)
	RZQ18PVJU8, RZQ24PVJU8, RZQ30PVJU8, RZQ36PVJU8 (x2), RZQ42PVJU8 (x2)



## 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](http://www.daikincomfort.com).



### Feel the difference.

Daikin's FBQ DC Duct systems offer a powerful solution, compact in design and easily concealed in a ceiling. With both cooling only and heat pump applications, SkyAir is the ultimate solution for large bonus rooms, restaurants, shops, offices, data rooms and other light commercial projects up to 2,500 square feet\*.

### Hear the difference.

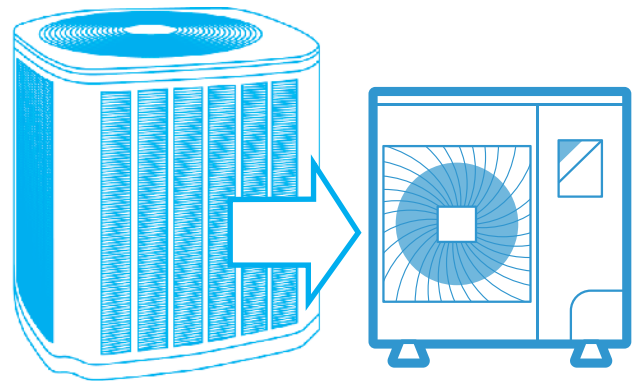
Utilizing inverter technology to maintain comfort settings, Daikin systems most often operate at low speeds with indoor sound levels as low as 37 decibels (dB) and outdoor sound levels as low as 49 dB. Activate the outdoor unit quiet operation and sound levels drop by 2-3 dB for quieter and gentler heating and cooling.

Sound levels as low as:



### See the difference.

A Daikin Inverter Ducted systems is designed for installation where space is a premium 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 Ducted to be used in homes with the strictest of limitations with relative ease.



### 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	
<b>17.5</b> <b>SEER</b>	<b>13.0</b> <b>EER</b>
<b>10.6</b> <b>HSPF</b>	<b>3.8</b> <b>COP</b>
(Coefficient of Performance)	
Inverter Ducted Heat Pump Efficiency ratings	

\* Equipment selection should always be based on detailed load calculations.



# FBQ 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:

- » Medium external static pressure (ESP) capabilities offer up to 0.8 "W.G.
- » DC fan motor provides excellent efficiency
- » Three user selected fan speeds available plus fan "Auto" logic
- » Built-in condensate pump
- » Bottom access for easy service
- » Low profile design at less than 12" high
- » Optional wired controller
- » Connect to Daikin Zoning Kit (Optional)



- » Increases the flexibility of the SkyAir systems in both residential and commercial applications by adding a Zoning Box to an indoor unit fan coil
- » Allows several separate ducts to supply air to different individually-controlled zones.
- » The DZK BACnet® Interface will work with any BACnet/IP compatible Building Management System



Wired  
Thermostat



Wireless  
Thermostat



Wireless Lite  
Thermostat



RZO\_PVJU8  
RZR\_PVJU8



FBQ\_PVJU



DZK Kit  
(Option)



BRC1E73  
(Option)



BRC4C82  
(Option)



## 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.



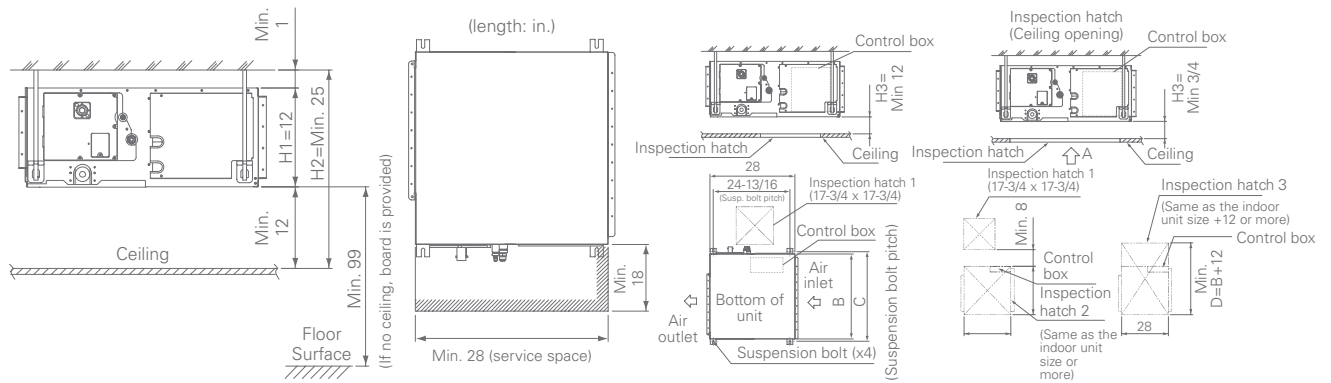
# FBQ SERIES WALL-MOUNTED DC DUCT-CONCEALED INSTALLATION

## 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 flexible piping and minimal wiring allow installation with minimal time and costs.

## FBQ18/24/30/36/42PVJU

Space required for installation (in.)

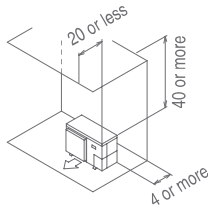
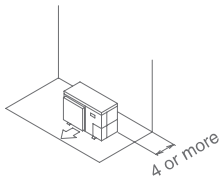


## For RZR18/24/30/36/42PVJU8, RZQ18/24/30/36/42PVJU8

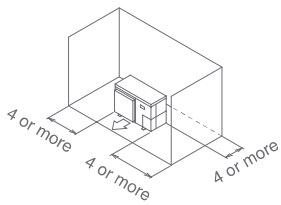
Space required for installation (in.)

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

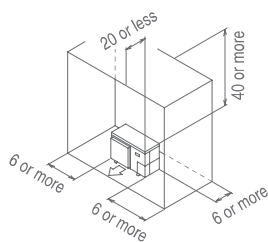
- » When the upward area is open
  - (1) When one outdoor unit is installed individually
    - » When an obstruction is present only on the air inlet side
- » When an obstruction is present in the upward area
  - (1) When one outdoor unit is installed individually
    - » When an obstruction is present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



- » When an obstruction is present on both sides

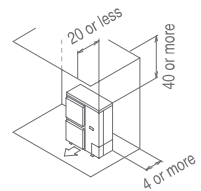
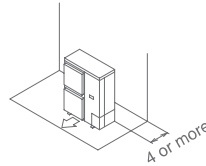


- » When an obstruction is present also on the air inlet side and both sides

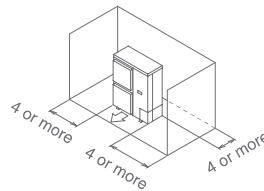


### (A) When an obstruction is present on the the air inlet side

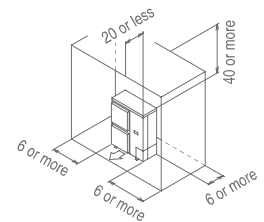
- » When the upward area is open
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    - » When an obstruction is present only on the air inlet side
- » When an obstruction is present in the upward area
  - (1) When one outdoor unit is installed individually
    - » When an obstruction is present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



- » When an obstruction is present on both sides



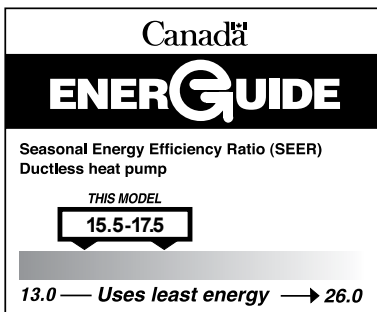
- » When an obstruction is present also on the air inlet side and both sides





#### 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.



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

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