



# DAIKIN FHQ SERIES HEAT PUMP AND COOLING ONLY SYSTEMS

CEILING-SUSPENDED  
Up to 16.6 SEER / Up to 9.3 HSPF  
Up to 12.9 EER





## 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 a variable-speed inverter 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/contractor or at [www.daikincomfort.com](http://www.daikincomfort.com) or [www.daikinac.com](http://www.daikinac.com).

# FHQ 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:

- » Slim in height at less than 8"
- » Auto-swing capability with 100° airflow pattern distributes comfortable airflow
- » Innovative stream fan technology keeps sound pressure levels low
- » Lateral servicing space allows installation in corners, narrow spaces, walls, and ceilings
- » Flat panel design makes cleaning simple
- » Concealed piping
- » Optional condensate pump
- » Low-Ambient cooling operation down to 0°F DB (-17.7°C DB) (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.



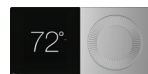
RZQ\_TAVJUA  
RZR\_TAVJUA



AZAI6WSCDKA



BRC1H71W



DTST-ONE-ADA-A



BRC1E73



BRC7E83



BACRC-T-P01  
BACRC-TH-P01  
BACRC-THO-P01  
BACRC-THOC-P01

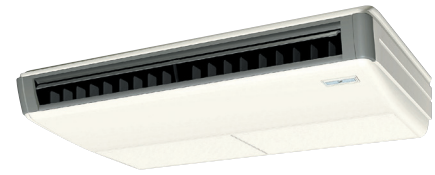


AZAI6WSPDKC



# FHQ SERIES HEAT PUMP AND COOLING ONLY SYSTEMS CEILING-SUSPENDED

Up to 16.6 SEER / Up to 9.5 HSPF / Up to 12.9 EER



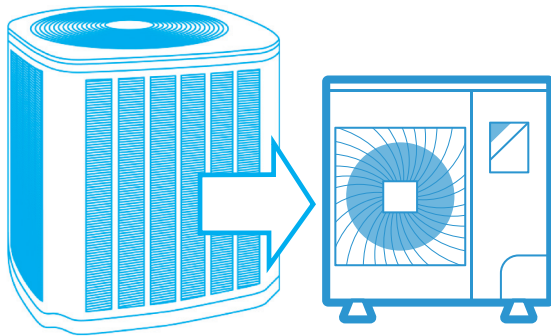
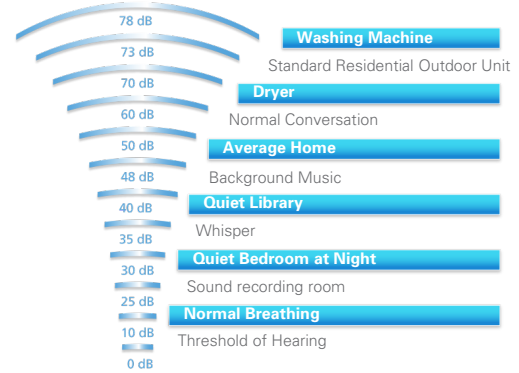
## Feel the difference

Designed for absolute comfort, Daikin's FHQ is a slim solution for open or structure ceilings. With its slim, elegant design, the FHQ ceiling-suspended unit is a great fit for any light commercial space. Wide air openings provide a comfortable airflow and an innovative stream fan ensures quiet operation, making it ideal for retail stores, restaurants, classrooms and conference rooms.

## Hear the difference

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

Sound levels as low as:



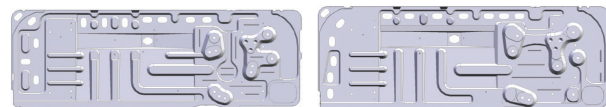
**100% rated heating capacity at -4°F WB (-20°C WB) for systems up to 3 tons (heat pump only)**

## 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.



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	
	<b>16.6</b>	<b>12.9</b>
	<b>SEER</b>	<b>EER</b>
	<b>9.3</b>	<b>3.9</b>
	<b>HSPF</b>	<b>COP</b>
		(Coefficient of Performance)
	Inverter Ducted Heat Pump Efficiency ratings	





## You're always in control.

### Individual comfort and control

Daikin systems have an available infrared remote controller allowing you to access all functions at the click of a button.

### From anywhere in the world. Or your living room.

It can happen to anyone. You forgot to change the temperature of your heat pump system or air conditioner before leaving the house, or you will be delayed returning home and wish to avoid needlessly heating or cooling your home. What in the past would have resulted in wasted energy is no longer a problem. With the DKN App, you are always in control. You can use your tablet or smart-phone to access your Daikin system via the internet\*.



\*Requires AZAI6WSCDKA Wi-Fi adaptor.



### NEW! Daikin Madoka Remote Controller



Daikin is pleased to introduce the *Madoka* remote controller for the North American FHQ & *SkyAir* indoor units. The *Madoka* features a sleek and stylish design with an intuitive interface including touch button control. It retains advanced functions

for indoor unit control. It can be commissioned and managed with ease through a Bluetooth® configuration app or via the onboard menus. The *Madoka* provides 3 configurable display modes: Text (default), Icon, and Scale to help meet project and occupant needs. Learn more at [www.daikinac.com](http://www.daikinac.com).



**Madoka Quick Set App**  
Available for download on iOS and Android devices.



### Coming Soon! Daikin Adaptive Touch Controller



The Daikin *Adaptive Touch Controller* (ATC) is used to control *SkyAir* indoor units with advanced and configurable control logic. The *ATC* comes in 4 different models with a built-in temperature sensor, humidity sensor, CO<sub>2</sub> sensor, and occupancy sensor. The

*ATC* will also provide analog input, analog output, digital input, and digital output terminals to monitor auxiliary sensors and control auxiliary equipment. The built-in sensors can be combined with advanced logic to create actionable tasks based upon the sensor values. The *ATC* controller can be integrated with a compatible building management system (BMS) using BACnet™ MS/TP.

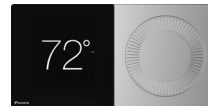
### NEW! Daikin DKN Plus Interface



The new Daikin DKN Plus Interface (AZAI6WSPDKC) enables the energy-efficient control of Daikin air conditioners by a third-party thermostat or an automation system. With this interface, third party devices or systems

can control the *SkyAir* indoor units through the DKN Cloud NA App via Wi-Fi, Cloud API, Modbus®, BACnet™ MS/TP, or thermostat relay contacts. This interface can be commissioned easily through the DKN Cloud NA app via Bluetooth® Low Energy (BLE). Learn more at [www.daikinac.com](http://www.daikinac.com).

### NEW! Daikin One+ Smart Thermostat



The Daikin *One+* smart thermostat is now available *SkyAir* indoor unit models. With the new translation adaptor, connecting the

Daikin *One+* smart thermostat provides several user features including remote monitoring, control and geofencing using the Daikin *One* home app, *Google*, and *Amazon* voice assistants. Learn more at [www.daikinone.com](http://www.daikinone.com).

\*\*Note that the optional handheld remote should not be used together with the Daikin *One+* smart thermostat.

# FHQ SERIES HEAT PUMP AND COOLING ONLY SYSTEMS CEILING-SUSPENDED

Model	Indoor Unit		FHQ18PVJU		FHQ24PVJU		FHQ30PVJU		FHQ36MVJU		FHQ42MVJU	
	Outdoor Unit (Cooling Only)		RZR18TAVJUA		RZR24TAVJUA		RZR30TAVJUA		RZR36TAVJUA		RZR42TAVJUA	
	Outdoor Unit (Heat Pump)		RZQ18TAVJUA		RZQ24TAVJUA		RZQ30TAVJUA		RZQ36TAVJUA		RZQ42TAVJUA	
			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	40,000
COP Rated*			3.9		3.5		3.1		2.8		2.8	
EER Rated			12.9		11.3		10.5		9.5		8.8	
SEER			16.3		16.6		16		14		14	
HSPF*			9.1		9.3		8.4		8.2		8.2	
AHRI Cooling Only#			205707040		205707041		205707042		205707043		205707044	
AHRI Heat Pump#			205801308		205706998		205706999		205707000		205707001	
Piping Connections	Liquid	in. (mm)	Ø 3/8 (Ø 9.5)									
	Gas		Ø 5/8 (Ø 15.8)									
	Drain		Ø 3/4 (Ø 19.1)									
Max. Interunit Piping Length			164 (50)				230 (70)					
Max. Interunit Height Difference	ft. (m)		98.4 (30)									
Chargeless			15 (4.5)									
Amount of Additional Charge of Refrigerant	lbs./ft (kg/m)		0.036 (0.0535)									
Operating Range - Cooling	°F DB (°C DB)		23° - 122°F (-5° - 50°C)									
Operating Range - Cooling with Optional Air Adjustment Grille	°F DB (°C DB)		0° - 122°F (-17.7° - 50°C)									
Operating Range - Heating*	°F WB (°C WB)		-4° - 60°F (-20° - 15.5°C)									
Indoor Unit			FHQ18PVJU		FHQ24PVJU		FHQ30PVJU		FHQ36MVJU		FHQ42MVJU	
Airflow Rate	H	cfm (m³/min)	790 (22.4)		790 (22.4)		790 (22.4)		830 (23.5)		850 (24.1)	
	M		N/A		N/A		N/A		N/A		N/A	
	L		670 (19)		670 (19)		670 (19)		670 (19)		700 (19.8)	
Fan	Type		Sirocco Fan									
Air Direction Control			N/A									
Air Filter			N/A									
Dimensions (H x W x D)	in. (mm)		7-11/16 x 62-5/8 x 26-3/4 (195 x 1590 x 679)									
Weight	Lbs (kg)		90 (41)									
Sound Pressure Level (H / M / L / SL)	dB(A)		N/A									
Outdoor Unit			RZR18TAVJUA / RZQ18TAVJUA		RZR24TAVJUA / RZQ24TAVJUA		RZR30TAVJUA / RZQ30TAVJUA		RZR36TAVJUA / RZQ36TAVJUA		RZR42TAVJUA / RZQ42TAVJUA	
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*

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

## AIR ADJUSTMENT GRILLE

KPW5G112	RZR18TAVJUA, RZR24TAVJUA, RZQ18TAVJUA, RZQ24TAVJUA
KPW5F80 (X2)	RZQ30TAVJUA, RZQ36TAVJUA, RZQ42TAVJUA, RZR30TAVJUA, RZR36TAVJUA, RZR42TAVJUA

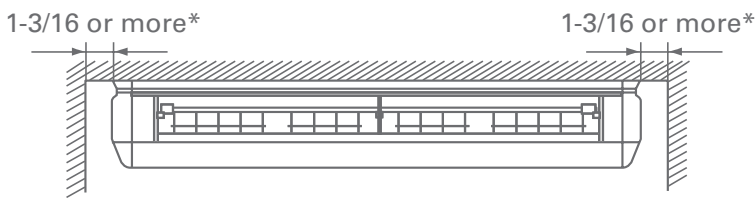
# FHQ SERIES HEAT PUMP AND COOLING ONLY SYSTEMS CEILING-SUSPENDED INSTALLATION

## 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.

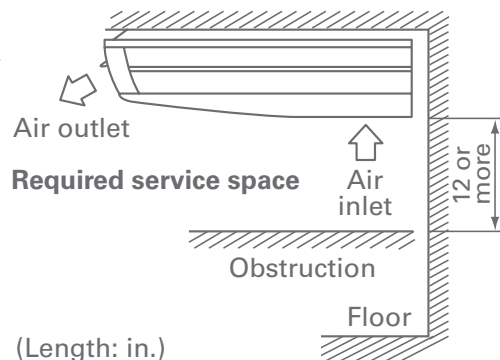
## FHQ18/24/30PVJU, FHQ36/42MVJU

Space required for installation (in.)



\* 7-7/8" or more for easier service and maintenance space

Wall height on air outlet side = Less than 47-1/4"



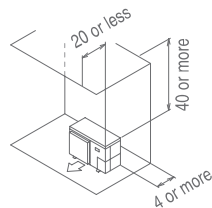
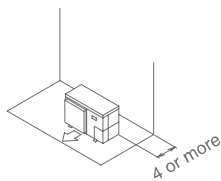
## For RZR18/24/30/36/42TAVJUA, RZQ18/24/30/36/42TAVJUA

Space required for installation (in.)

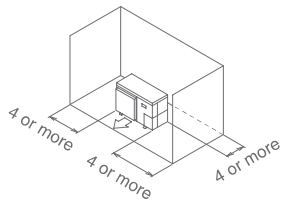
Wall height on air outlet side = Less than 47-1/4"

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

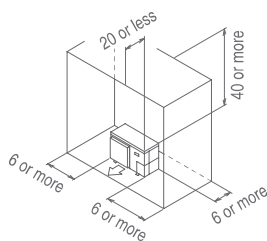
- » When the upward area is open
  - (1) When one outdoor unit is installed individually
    - » When an obstruction is present only on the air inlet side
- » When an obstruction is present in the upward area
  - (1) When one outdoor unit is installed individually
    - » When an obstruction is present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



- » When an obstruction is present on both sides

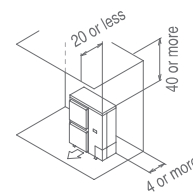
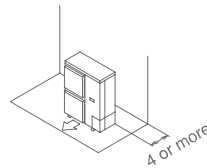


- » When an obstruction is present also on the air inlet side and both sides

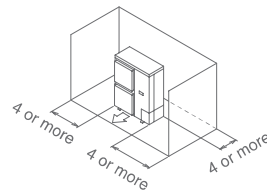


### (A) When an obstruction is present on the the air inlet side

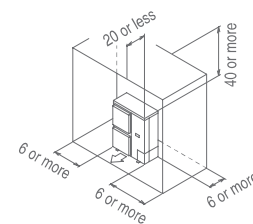
- » When the upward area is open
  - (1) When one outdoor unit is installed individually
    - » When an obstruction is present only on the air inlet side
- » When an obstruction is present in the upward area
  - (1) When one outdoor unit is installed individually
    - » When an obstruction is present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



## About Daikin:

**DAIKIN**

Daikin Industries, Ltd. (DIL) is a global Fortune 1000 company which celebrated its 95th anniversary in May 2019. The company is recognized as one of the largest HVAC (Heating, Ventilation, Air Conditioning) manufacturers in the world. 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.

## NEW! Daikin SplitXpress Selection Tool

The new interactive *SplitXpress* mobile app and website provide a complete product selection tool to streamline system selection for single and multi-zone projects. Users can create equipment selections and add accessories / pricing details to quickly share quotes with customers. Available for free on the *App Store* (iOS) and *Google Play* (Android), and at <https://splitxpress.daikincity.com>.



## 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.



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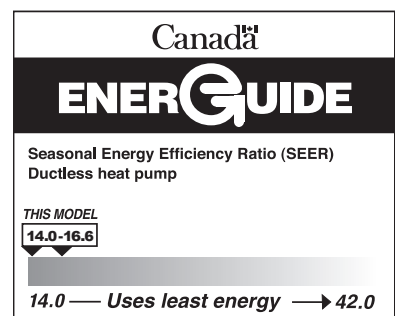
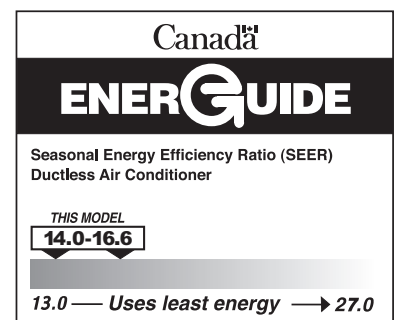
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## ADDITIONAL INFORMATION

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.



**DAIKIN**

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

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