

# DAIKIN AURORA SINGLE ZONE HEATING AND COOLING SYSTEMS

FDMQ DUCTED CONCEALED UNITS  
Up to 15.2 SEER2 / 8.9 HSPF2 / 10 EER2  
INVERTER (VARIABLE-SPEED) COMPRESSOR



**Today, the air is perfect.** Perfect temperature. Perfect humidity. Perfectly clean and fresh, like just after a rainstorm. And the only thing more perfect than this outdoor scenario is that it's all happening inside. Because that's where we work. That's where we play, where we sleep, where we truly live.

And that's why at Daikin, we aim to make the air inside as refreshing as the outside. Better comfort. Better control and efficiency. Better quality. So you can create your own unique ecosystem. And everyday is perfect. **Inside and out.**

## Daikin *AURORA* Single Zone FDMQ Ducted Concealed Heat Pump INVERTER (VARIABLE-SPEED) COMPRESSOR



### *Perfecting The Air We Share*

A better understanding of how people inhabit their living spaces has led to products designed to create indoor environments that help use energy resources more effectively. Heat pumps extract or reject heat from the outside air, even in cold weather. They use an electrically powered compressor and are extremely effective at

heating and cooling an apartment or a house. Daikin heat pumps are quiet and discreet, and use state-of-the-art technology to keep your energy bills low. With a Daikin heat pump, a large portion of the energy used to heat or cool your home comes from the outside air, a free and infinitely renewable resource.





## 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.

## Control

Our expertise makes life easier for you, allowing you to control your system via a smartphone app\*\* or a user-friendly remote control.

## Reliability

Daikin products are renowned for their reliability. And you can rely on outstanding limited warranties\* to match.



\* Complete warranty details available from your local dealer/contractor or at [www.daikincomfort.com](http://www.daikincomfort.com). To receive the 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec. If product installed in a commercial application, limited warranty period is 5 years. The duration of warranty coverages in Texas differs in some cases.

\*\* Adaptor required.



# Daikin *AURORA* Single Zone Heating and Cooling Systems

## Designed for living: Solutions for colder regions.

Living in colder climates doesn't mean a heat pump isn't a viable option to heat each space in your home or business. The outdoor units of this Daikin *AURORA* heat pump system have been redesigned to withstand extreme weather conditions, even when it is down to -13°F WB (-25°C WB).

## Premium comfort features:

- » **Energy Efficient** – Up to 15.2 SEER2 / 8.9 HSPF2 / 10 EER2 for ultra-efficient cooling and heating operation and reduced operating costs compared to conventional lower-efficiency systems.
- » **Enhanced Capacity** – Up to 100% rated heating capacity at 5°F WB (-15°C WB) and confirmed continuous operation as low as -13°F WB (-25°C WB) ambient temperature.

## Ideal solution for:

- » Renovations, remodeling and new construction
- » Sun rooms, basements, garages, hot or cold rooms, attics where the walls tend to be lower, or wherever wall space is at a premium
- » Ceiling void or attics which allow for a ducted solution with longer duct runs
- » Homeowners' requiring higher level of filtration
- » Homeowners' reluctance to use a visible wall or a floor mounted unit

## Outdoor unit features:



**Anti-Corrosion Treatment on Heat Exchanger**



**Cold Climate Ready** (continuous operation down to -13°F WB (-25°C WB))



**Our outdoor unit drain pans** have up to 14 holes which allows for effective drainage of condensation.

In some cases, this improved drain pan design eliminates the need for drain pan heaters, resulting in higher efficiencies in low ambient temperatures.



**Outdoor Unit Quiet Operation.**







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Concealed Comfort and Enhanced Flexibility.

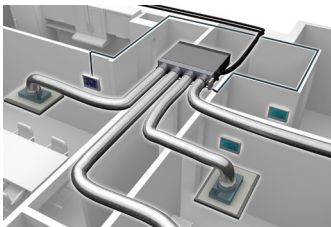
Daikin FDMQ ducted concealed units deliver heating and cooling comfort for the entire home, without distracting from the décor. Easily incorporate longer duct runs and high MERV filters with available external static pressures of up to 0.6.

Indoor unit features:

-  **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.
-  **Program Dry Function.** This gives priority to reducing the level of humidity in the room rather than room temperature.
-  **Outside air integration possible.**
-  **Optional MERV 13 Filter Kit available.**



- » Increases the flexibility of the AURORA 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



Knowledge is power

The new minimum efficiency standards are based upon new metrics (SEER2/EER2/HSPF2) derived from a new test procedure (M1) rather than the historical metrics (SEER/EER/HSPF) from the old test procedure (M).

Testing procedures and requirements for developing efficiency ratings will now be more stringent with the new 2023 DOE regulations. The prior M testing procedure is being replaced by the M1 testing procedure for 2023 compliance.

Why is COP 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 COP2 increases, the higher the efficiency — resulting in lower utility costs.

Up to	
15.2 SEER2	10 EER2
8.9 HSPF2	3.0 COP <small>(Coefficient of Performance)</small>
Daikin AURORA Single Zone Heat Pump Efficiency Ratings	

COP

 .85

 .95

 1.00

**AURORA**  
3.0  
(Ducted Concealed Unit)



## 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.



## Daikin Madoka Remote Controller



Daikin is pleased to introduce the *Madoka* remote controller for the North American FDMQ 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 FDMQ 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

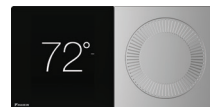
*ATC* will also provide analog input, analog output, digital input, and digital output terminals to monitor auxiliary sensors and control auxiliary equipment. The built-in sensors can be combined with advanced logic to create actionable tasks based upon the sensor values. The *ATC* controller can be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

## 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 Single Zone and Multi-Zone 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).

## Daikin One+ Smart Thermostat



The Daikin *One+* smart thermostat is now available for single and multi-zone 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.



# SPECIFICATIONS

Unit Class	Indoor Unit Model # / Dimensions (HxWxD)	Outdoor Unit Model # / Dimensions (HxWxD)	Efficiency Rating	Sound Level (dB(A))		Weight (lbs)		AHRI #
				Indoor	Outdoor	Indoor	Outdoor	
12	FDMQ12WVJU9	RXL12WMVJU9	14.6 SEER2 / 8.9 HSPF2 / 8.9 EER2	33	50	64	73	212506083
	9-5/8" x 27-9/16" x 31-1/2"	21-5/8" x 26-9/16" x 11-3/16"						
18	FDMQ18WVJU9	RXL18WMVJU9	15.2 SEER2 / 8.5 HSPF2 / 10 EER2	35	54	82	132	212494265
	9-5/8" x 39-3/8" x 31-1/2"	28-15/16" x 34-1/4" x 12-5/8"						
24	FDMQ24WVJU9	RXL24WMVJU9	15.2 SEER2 / 8.4 HSPF2 / 9.6 EER2	40	55	82	132	212494266
	9-5/8" x 39-3/8" x 31-1/2"	28-15/16" x 34-1/4" x 12-5/8"						



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## About Daikin:

Daikin Industries, Ltd. (DIL) is a global Fortune 1000 company and is recognized as one of the largest HVAC (Heating, Ventilation, Air Conditioning) manufacturers in the world. Founded in 1924, Daikin is approaching 100 years of HVAC worldwide leadership. 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.

## 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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## 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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