



DAIKIN ATMOSPHERA

R32



SINGLE ZONE WALL-MOUNTED HEAT PUMP SYSTEM



UP TO 27.4 SEER2 / UP TO 11.2 HSPF2 / UP TO 16.3 EER2

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.**



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.



Daikin *ATMOSPHERA* Single Zone Wall Mount HEAT PUMP SYSTEM

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.

Control

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

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.

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. 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.

Daikin *ATMOSPHERA*

Discreet wall-mounted unit providing high efficiency and comfort.

The Daikin *ATMOSPHERA* Single Zone System is ideal for spot cooling and heating needs in residential and commercial spaces that require heating and cooling even in extreme ambient temperatures. In addition, Daikin *ATMOSPHERA* is an effective source of heat to offset old, inefficient furnaces or boiler systems.outdoor units.



Efficiency and Comfort:

Energy Efficient – Up to 27.4 SEER2 / Up to 11.2 HSPF2 / Up to 16.3 EER2 for ultra-efficient cooling and heating operation and reduced operating costs compared to conventional lower-efficiency systems.

Cooling Range: Up to 100% rated cooling capacity at 115°F (46°C).

Heating Range: 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, attics, garages, hot or cold rooms, etc.
- » Rooms where floor space comes at a premium or is not available for other application.
- » Ceiling void or attic does not allow for a viable duct run option.
- » Cooling Only models are an excellent value for space(s) not requiring heating.



Aligning with Goals of:

- » **Decarbonization and Electrification** — **moving towards clean energy:** An effective source of heat to comfortably offset older or inefficient sources of heat using fossil fuels.
- » **Lower GWP refrigerant** — **reduce emissions at the source:** Utilizing a refrigerant with lower Global Warming Potential (GWP) compared to conventional refrigerants.
- » **Sustainability:** Easy to top off, or clean and reuse on-site and easy to reclaim and recycle.





Innovative technology:

Wide Operation Range

Whatever the climate, Daikin *ATMOSPHERA* systems can provide quiet and energy-efficient comfort to single and multi-family homes throughout North America.

For those
hot
summer
days

Up to 100% rated cooling capacity at 115°F (46°C)

- » Hybrid Cooling reduces humidity without over cooling the space
- » CLEAN operation dries the interior of the indoor unit to reduce the amount of condensation present
- » COMFORT MODE directs air horizontally in cooling to prevent cold airflow from being blown directly onto the body

115°F
(46°C)

WARM CLIMATES WITH
HEAT AND HIGH
HUMIDITY.

For those
cold
winter
nights

Up to 100% rated heating capacity at 5°F (-15°C), operation down to -13°F (-25°C)

- » COMFORT MODE directs air downwards in heating to drive warm air to the bottom of the room
- » HOT START reduces cold drafts when first operating in HEAT mode

COLDER CLIMATES
WITH RELATIVELY
COOL SUMMERS.
-13°F
(-25°C)

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.

Up to

27.4
SEER2

16.3
EER2

11.2
HSPF2

4.6
COP

Single Zone Daikin *ATMOSPHERA*
Heat Pump Efficiency Ratings

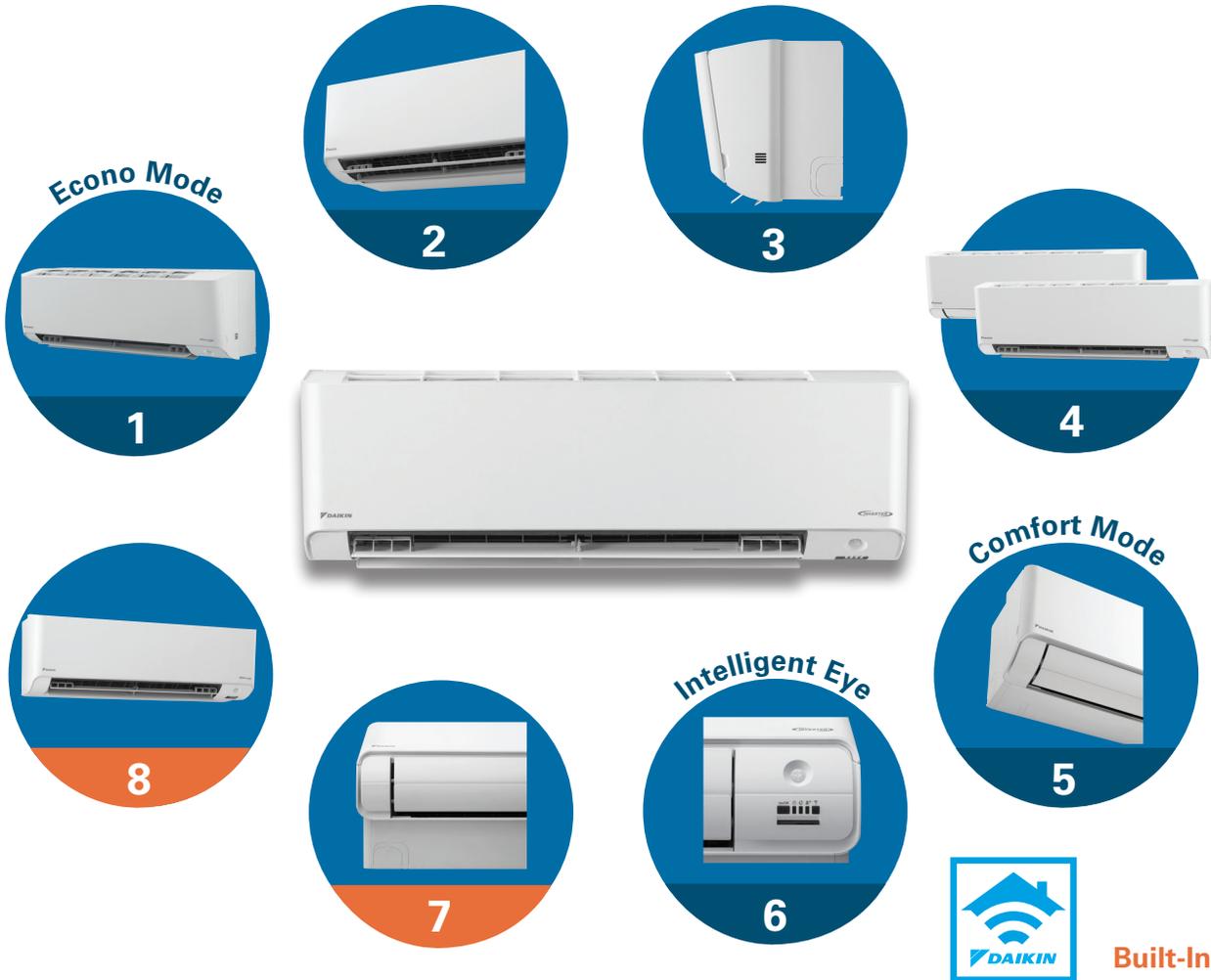
Why is COP important?

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





R-32 Refrigerant

Increased Factory Charge and piping allowances vs. previous models

- Standard Features and Benefits
- New features and benefits unique to the Daikin *ATMOSPHERA*

1  **Econo Mode.**
Limits the maximum operating current and power consumption of the outdoor unit by approximately 30% during start-up. This saves energy and reduces the load on the electrical circuit when multiple electrical devices are used simultaneously.

2  **3-D Airflow.**
Combines vertical and horizontal auto-swing to circulate cool/warm air to the corners of large spaces.

3  **Simplified Maintenance.**
The indoor unit has been re-designed for easier removal of the drain pan (compared to other wall-mounted units).

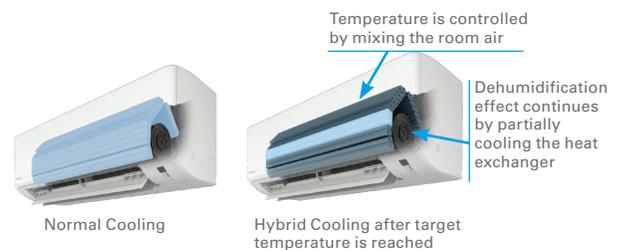
4  **Powerful Operation.**
Pushing the POWERFUL button on the remote control gives you a boost in cooling or heating power for a 20-minute period, even if the unit is already operating at high capacity.

5  **Comfort Mode.**
When cooling, the flap positions itself horizontally to keep cold airflow from being blown directly onto the body. When heating, the flap turns vertically downwards to drive warm air to the bottom of the room.

 With the Daikin Comfort Control app you are always in control. You can use your tablet or smart-phone to access your Daikin *ATMOSPHERA* system via the internet, no adaptor required.

6  **Intelligent Eye.**
An infrared sensor with the ability to sense movement in the room. If the room is empty for 20 minutes, it changes the set point to start saving energy.

7  **Hybrid Cooling.**
Dehumidifies efficiently even in low cooling loads, and maintains dehumidification effect after the target temperature is reached.



7  **CLEAN Operation.**
The CLEAN function dries the interior of the indoor unit to reduce the amount of condensation present. When COOL or DRY operation is performed, condensation may occur inside the air conditioner. It is recommended to dry the inside of the air conditioner using CLEAN operation.

9  **Increased Factory Charge and piping allowances.**
Daikin *ATMOSPHERA* is pre-charged to serve piping lengths up to 49 ft. (15m), a 50% increase in pre-charge coverage compared to previous models.

 * Complete warranty details available from your local dealer/contractor or at 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

ELEVATE PROJECTS WITH R-32*

How the Daikin *ATMOSPHERA* system and R-32 help elevate projects and offer efficiency.

**Up to
18% more
efficient.**

Up to 12% higher SEER and up to 18% higher HSPF (compared to R-410A Daikin LV Series).

**More
thermal
capacity.**

Up to 21% higher cooling capacity at 115°F DB and 51% higher max heating capacity at -13°F WB compared to R-410A Daikin LV Series and R-410A Daikin *AURORA* units)



* Codes are rapidly changing and allowing A2L refrigerants throughout North America. Check with your local Daikin Distributor for latest product availability information.



**Designed to
draw less
electricity.**

Up to 30% improvement in full load cooling EER and up to 14% improvement in full load heating COP (compared to R-410A Daikin LV Series and R-410A Daikin *AURORA* systems).

**Uses less
refrigerant.**

Up to 41% less factory refrigerant charge than a similar Daikin LV Series R-410A system.

**Efficient
in harsh
conditions.**

Up to 14% higher COP at 5°F (compared to Daikin *AURORA* R-410A systems).



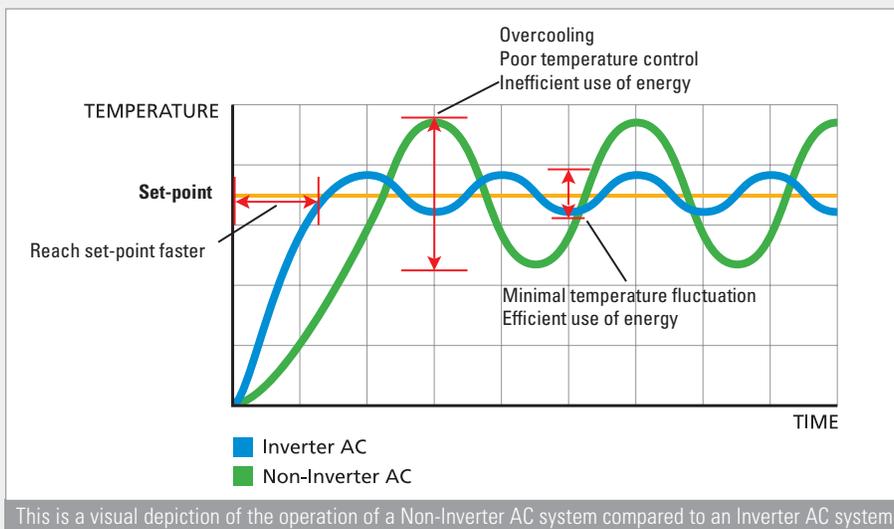
Take comfort in your decision.

R-32 INDOOR AND OUTDOOR UNITS



Comfort without compromise:

The Daikin *ATMOSPHERA* system is an Inverter unit that runs continuously but adjusts the compressor's speed to meet the demand. An inverter is energy saving technology that eliminates wasted operation in air conditioners by efficiently controlling motor speed. Because it maintains the temperature consistently, your space will no longer feel too hot or too cold. Compared to non-inverter type HVAC systems, systems equipped with inverters have less power loss and can save up to 30% or more in energy.



Learn more about the benefits of Daikin Inverter technology:
www.daikincomfort.com/go/inverter/



R32

The right choice to replace R-410A.

Daikin is leading the industry with the switch to the next generation of refrigerants that have a lower Global Warming Potential (GWP) than R-410A: R-32.

Proven. Easy. Available. Efficient.

With **over 230 million R-32 units already installed**, made by **over 40 manufacturers** and installed in **more than 130 countries**, R-32 is the right choice **and** the proven global standard.

In addition, R-32 is the only pure, single-component refrigerant slated to replace the high GWP refrigerant, R-410A. Unlike blended refrigerants, which can change composition, R-32 is easy to top off or clean and reuse

on-site. It's also easy to reclaim and reuse off-site with a simple cleaning process.

Additionally, because R-32 has a GWP of 675 and requires less charge in certain systems, direct emissions from those systems can be up to 80% lower than similar R-410A systems. The result? Fewer greenhouse gas emissions that contribute to climate change, based on Daikin studies.

Emissions Comparison

 **CAR:**
4.6 METRIC TONS
(4600 kg) / year*

 **DAIKIN**
ATMOSPHERA
with R-32 Refrigerant:
1.4 METRIC TONS
(1428 kg) / year**



LEARN MORE ABOUT R-32 AT
WWW.R32REASONS.COM

* www.epa.gov/greenvehicles/greenhouse-gas-emissions-typical-passenger-vehicle
** Calculated using the LCCP method with a 1-ton system installed in Seattle, WA.



Controls



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 Daikin *ATMOSPHERA* heat pump system 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 Daikin Comfort Control App, you are always in control. You can use your tablet or smart-phone to access your Daikin system via the internet.



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>.





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 Daikin *ATMOSPHERA* indoor unit through the DKN NA App, 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.



Daikin *One+* Smart Thermostat

The Daikin *One+* smart thermostat is 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.



Daikin *One* Touch Smart Thermostat

A great control option for Daikin single and multi-zone systems. With customizable settings and the power to wirelessly control the system from anywhere, homeowners may never want to change their thermostat manually again. However, the touchscreen interface supports a user-friendly experience when they do. Voice control is also possible with compatible Amazon and Google devices.



Daikin *One* Lite Connected Thermostat

The Daikin *One* lite connected thermostat is a perfect solution for most Daikin single and multi-zone products when a wall-mounted smart thermostat is needed. The Daikin *One* lite connected thermostat can be linked via Wi-Fi to the Daikin *One* home app for control from an iOS or Android phone or tablet.



NOTE: the handheld remote that comes with some indoor units *should not* be used together with the Daikin *One* thermostats.



For systems compatible with Daikin *One* smart thermostats:

Once you grant your Daikin contractor access through Daikin *One* cloud services app, the Daikin cloud can notify your contractor when your system needs maintenance, alert them if your system ever has an urgent need, and provide detailed performance information on your system. The first year of Daikin *One* cloud services is included with purchase. Ask your Daikin contractor for more information!

Model	Indoor Unit		FTXM09WVJU9		FTXM12WVJU9		FTXM18WVJU9		FTXM24WVJU9		
	Outdoor Unit		RXM09WVJU9		RXM12WVJU9		RXM18WVJU9		RXM24WVJU9		
			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Capacity Rated	Btu/h		9,000	11,000	12,000	13,600	18,000	21,600	21,600	24,000	
(Min. ~ Max.)			(4,400 ~ 12,500)	(4,400 ~ 19,500)	(4,800 ~ 16,000)	(4,800 ~ 22,600)	(9,000 ~ 22,000)	(9,000 ~ 30,200)	(9,000 ~ 26,000)	(9,000 ~ 32,200)	
Max Heat Capacity at 5°F (-15°C)			-	11,000	-	13,600	-	21,600	-	24,000	
Max Heat Capacity at -13°F (-25°C)			-	10,000	-	10,700	-	16,200	-	18,000	
COP Rated			4.6		4.4		3.6		3.54		
COP at 5°F (-15°C)			2		2		1.8		1.8		
EER2 Rated			16.3		13.2		12.5		12.0		
SEER2			27.4		25.2		22.7		22		
HSPF2			11.2		10.7		10.0				
Piping Connections	Liquid	in. (mm)	Ø 1/4 (Ø 6.4)								
	Gas		Ø 3/8 (Ø 9.5)				Ø 1/2 (Ø 12.7)		Ø 5/8 (Ø 15.9)		
	Drain		Ø 5/8 (Ø 16.0)								
Max. Interunit Piping Length			82-1/64 (25)				98-1/2 (30)				
Max. Interunit Height Difference	ft (m)		65-5/8 (20)				82-1/64 (25)				
Chargeless			49.2 (15)								
Amount of Additional Charge of Refrigerant	oz/ft (g/m)		0.22 (20)								
Operating Range - Cooling			50° - 114.8°F (10° - 46°C)								
Operating Range - Low-Ambient Cooling*	°F DB		14° - 114.8°F (-10° - 46°C)								
Operating Range - Cooling with Optional Air Adjustment Grille*			-4° - 114.8°F (-20° - 46°C)								
Operating Range - Heating†	°F WB		-13° - 64.4°F (-25° - 18°C)								
Indoor Unit			FTXM09WVJU9		FTXM12WVJU9		FTXM18WVJU9		FTXM24WVJU9		
Airflow Rate	H	cfm (m³/min)	515 (14.6)	515 (14.6)	557 (15.8)	557 (15.8)	776 (22.0)	776 (22.0)	845 (23.9)	845 (23.9)	
	M		340 (9.6)	370 (10.5)	394 (11.2)	412 (11.7)	583 (16.5)	559 (15.8)	652 (18.5)	606 (17.2)	
	L		249 (7.1)	304 (8.6)	292 (8.3)	340 (9.6)	482 (13.7)	467 (13.2)	498 (14.1)	498 (14.1)	
	SL		219 (6.2)	249 (7.1)	225 (6.4)	255 (7.2)	428 (12.1)	399 (11.3)	451 (12.8)	451 (12.8)	
Fan	Speed	Steps	5 Steps, Quiet, Auto								
Air Direction Control			Right, Left, Horizontal, Downward								
Air Filter			Removable, Washable								
Dimensions	in.		11-3/4 × 36-1/4 × 10-13/16				11-3/4 × 43-5/16 × 10-13/16				
(H × W × D)	(mm)		(299 × 920 × 275)				(299 × 1,100 × 275)				
Weight	Lbs (kg)		29 (13)				33 (15)				
Sound Pressure Level (H / M / L / SL)	dB(A)		43 / 33 / 25 / 22	43 / 35 / 30 / 25	45 / 37 / 29 / 23	45 / 39 / 32 / 26	49 / 41 / 36 / 33	49 / 40 / 35 / 32	51 / 44 / 37 / 34	51 / 42 / 37 / 34	
Outdoor Unit			RXM09WVJU9		RXM12WVJU9		RXM18WVJU9		RXM24WVJU9		
Refrigerant	Type	R-32									
	Charge	Lbs (kg)	2.16 (0.98)				2.98 (1.35)				
Airflow Rate	H	cfm	1,317 (37.3)	1,296 (36.7)	1,487 (42.1)	1,487 (42.1)	2,119 (60.0)	2,062 (58.4)	2,179 (61.7)	2,119 (60.0)	
	SL	(m³/min)	1,183 (33.5)	922 (26.1)	1,317 (37.3)	922 (26.1)	1,833 (51.9)	1,773 (50.2)	1,833 (51.9)	1,833 (51.9)	
Dimensions	in.		23-7/16 × 33-1/4 × 11-13/16				28-15/16 × 34-1/4 × 12-5/8				
(H × W × D)	(mm)		(595 × 845 × 300)				(735 × 870 × 320)				
Weight	Lbs (kg)		96 (44)				132 (60)				
Sound Pressure Level	H	dB(A)	47	49	49	52	54	55	55	56	

* Cutting a jumper or a dipswitch setting is required. Refer to installation manual.

† The installation of an optional drain-pan heater is recommended in areas where ambient temperature may fall below 5°F (-15°C) or in areas of heavy snowfall or high levels of wintertime humidity.

Unit Combination		Power Supply				Compressor	OFM		IFM	
Indoor Unit	Outdoor Unit	Hz - Volts	Voltage Range	MCA	MOCP	RLA	W	FLA	W	FLA
FTXM09WVJU9	RXM09WVJU9	60 - 208	Min. 187 V Max. 253 V	12.3	15	12	37	0.31	27	0.25
		60 - 230								
FTXM12WVJU9	RXM12WVJU9	60 - 208	Min. 187 V Max. 253 V	12.3	15	12	37	0.31	27	0.25
		60 - 230								
FTXM18WVJU9	RXM18WVJU9	60 - 208	Min. 187 V Max. 253 V	18.8	20	18.25	123	0.58	61	0.46
		60 - 230								
FTXM24WVJU9	RXM24WVJU9	60 - 208	Min. 187 V Max. 253 V	19.8	20	18.25	123	0.58	61	0.46
		60 - 230								

Part Number	Optional accessories for Indoor Unit	Part Number	Optional accessories for Outdoor Unit
BRC944B2-A08*	Wired Remote Controller kit	DACA-WB-1	Powder-Coated Wall-Mounted Bracket
BRCW901A08	Wired Remote Controller Cord - 8m	KPW937F4E	Air Direction Adjustment Grille (09 & 12)
DACA-BRCW901P10	Remote Controller Cable, Plenum Rated, 10 ft	KPW063B4	Air Direction Adjustment Grille (18 & 24)
DACA-BRCW901P25	Remote Controller Cable, Plenum Rated, 25 ft	KEH094A41E	Drain Pan Heater Small (09 & 12)
KAF970A46	Titanium Apatite Deodorizing filter (without frame)	KEH063A4E(A)	Daikin BML Drain Pan Heater Large (18 & 24)
DACA-CP4-1	Condensate Pump	KKG020A41	Back Protection Wire Net (09 & 12)
DACA-CP1-1	Inline Condensate Pump	KKG063A42	Back Protection Wire Net (18 & 24)
DTST-ONE-ADA-A*	Daikin <i>One+</i> Smart Thermostat	KPS034A41	Snow hood (intake side plate) (09 & 12)
AZAI6WSCDKB*	DKN Residential Cloud Wi-Fi Adaptor	KPS063A41	Snow hood (intake side plate) (18 & 24)
AZAI6WSPDKC*	Daikin DKN Plus Interface	KPS034D42	Snow hood (intake rear plate) (09 & 12)
DTST-LTE-LA-A*	Daikin <i>One</i> Lite Connected Thermostat	KPS063A44	Snow hood (intake rear plate) (18 & 24)
DTST-TOU-ADA-A*	Daikin <i>One</i> Touch Smart Thermostat	KPS034A43	Snow hood (outlet) (09 & 12)
		KPS063A47	Snow hood (outlet) (18 & 24)
		KKP937A4	Drain Plug

* requires KER087A41 s21 conversion connector

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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 celebrating 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.

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.
- » Working with all refrigerants involves a degree of liability. It is recommended to use best practices and always adhere to safety protocols before, and during, work with any refrigerants.
- » **DO NOT MIX REFRIGERANTS**
- » A2L refrigerants can only be used in new equipment.
- » A2L refrigerants **CANNOT** be used as a retrofit refrigerant.
- » Codes are rapidly changing and allowing A2L refrigerants throughout North America. Check with your local Daikin Distributor for latest product availability information.

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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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www.R32reasons.com

