





# Daikin *ATMOSPHERA*

Single Zone Heating and Cooling 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.



#### 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 quiet with low sound levels 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 service to match, with industry leading warranties.\*



\* 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*The first R-32 single zone ductless unit in North America

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.

#### **Premium Comfort Features:**

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

#### Ideal Solution for:

- » Primary living areas (for example, master bedrooms and living rooms)
- » Hot or cold rooms
- » Rooms with poor air flow

## 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











## THE NEXT GENERATION OF DAIKIN HVAC SYSTEMS USING R-32 REFRIGERANT

### R-32 Refrigerant: Proven. Easy. Efficient. Available. The Right Choice to Replace R-410A.

R 3 2

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.

R-32 is the A2L refrigerant that's widely used around the world today. With over 160 million R-32 units made by over 40 manufacturers and installed in more than 90 countries,

R-32 is the easy 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.

Perhaps most importantly, R-32's excellent thermodynamic properties allow the new Daikin *ATMOSPHERA* system to be up to 12% higher in SEER and up to 18% higher in HSPF than the Daikin LV Series using R-410A, lowering indirect emissions throughout the lifecycle of the systems. 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.

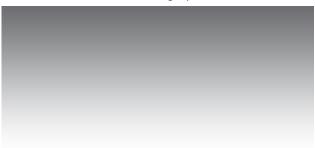
#### R-32 is focused on four main elements:

Proven	Efficient	Easy	Available
<ul> <li>Globally accepted</li> <li>Installed base of over 160 million units from 40 OEMs</li> </ul>	<ul> <li>Excellent thermodynamic properties</li> <li>Reduced indirect emissions vs. R-410A</li> <li>Can consume less electricity over the lifetime of the equipment vs. R-410A</li> </ul>	<ul> <li>» Pure, single-component refrigerant</li> <li>» Easy to top off, or clean and reuse on-site</li> <li>» Easy to reclaim and recycle</li> </ul>	<ul><li>» Adopted in over 90 countries</li><li>» A component in R-410A</li><li>» Non-proprietary</li></ul>



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

#### **Emissions Comparison**





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

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

Note: To meet upcoming regulatory requirements for A2L usage, all R-410A HVAC systems will need to be redesigned, regardless of which A2L is selected. All installers of A2L systems will have to follow A2L safety precautions and procedures. R-32 should not be used in systems designed for R-410A.

## MULTIPLE CHALLENGES, A SINGLE SOLUTION

## 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.











WARM CLIMATES WITH HEAT AND HIGH HUMIDITY.

COLDER CLIMATES WITH RELATIVELY COOL SUMMERS.

-13°F (-25°C)



## For those hot summer

days

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

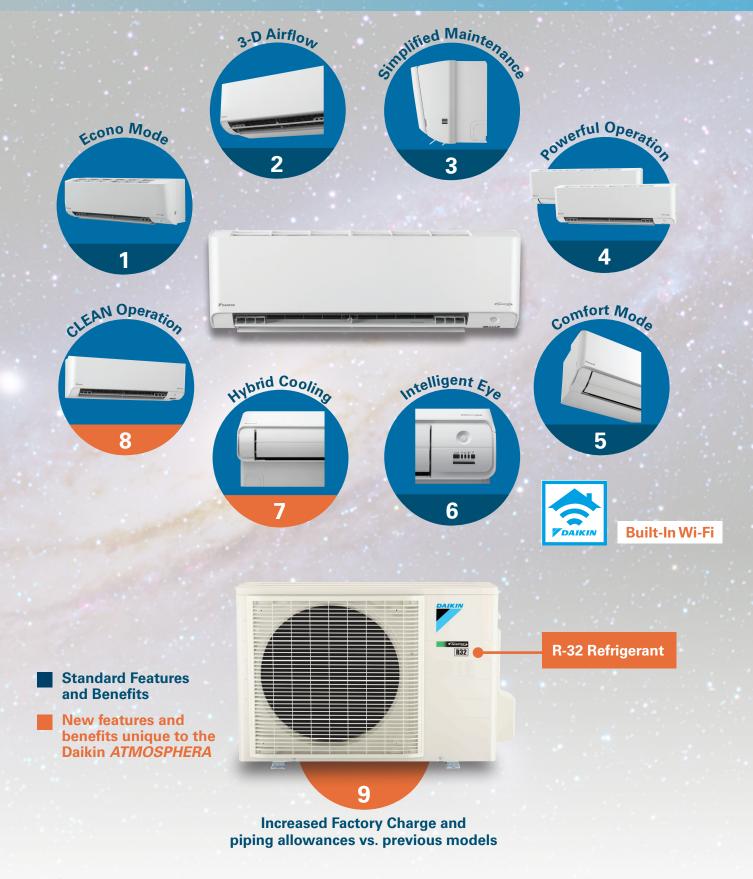
- » Hybrid Cooling reduces humidity without over cooling the space
- » CLEAN operation dries the interior of the indoor unit to reduce the amount of condensation present
- » COMFORT MODE directs air horizontally in cooling to prevent cold airflow from being blown directly onto the body

## 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

## **FEATURES AND BENEFITS**



#### **FEATURES AND BENEFITS OVERVIEW**



#### 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.

#### 3-D Airflow.

Combines vertical and horizontal autoswing to circulate cool/warm air to the corners of large spaces.



#### Simplified Maintenance.

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



#### **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.



#### 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.





#### 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.



#### **Hybrid Cooling.**

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



Normal Cooling

Dehumidification effect continues by partially cooling the heat exchanger

Temperature is controlled

by mixing the room air

Hybrid Cooling after target temperature is reached





#### **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.



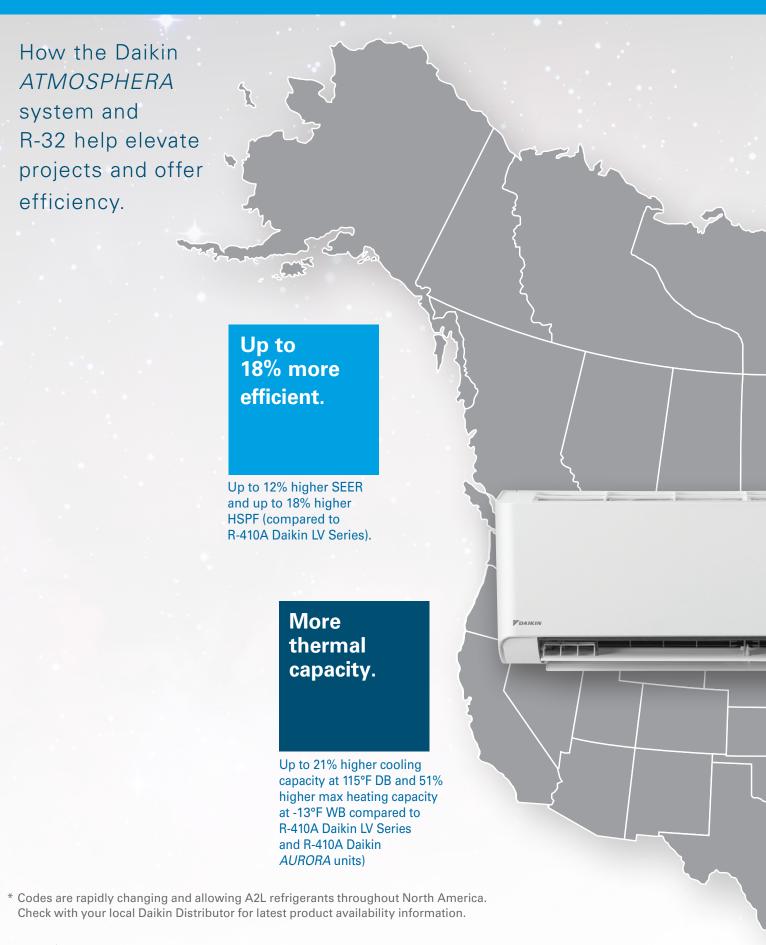


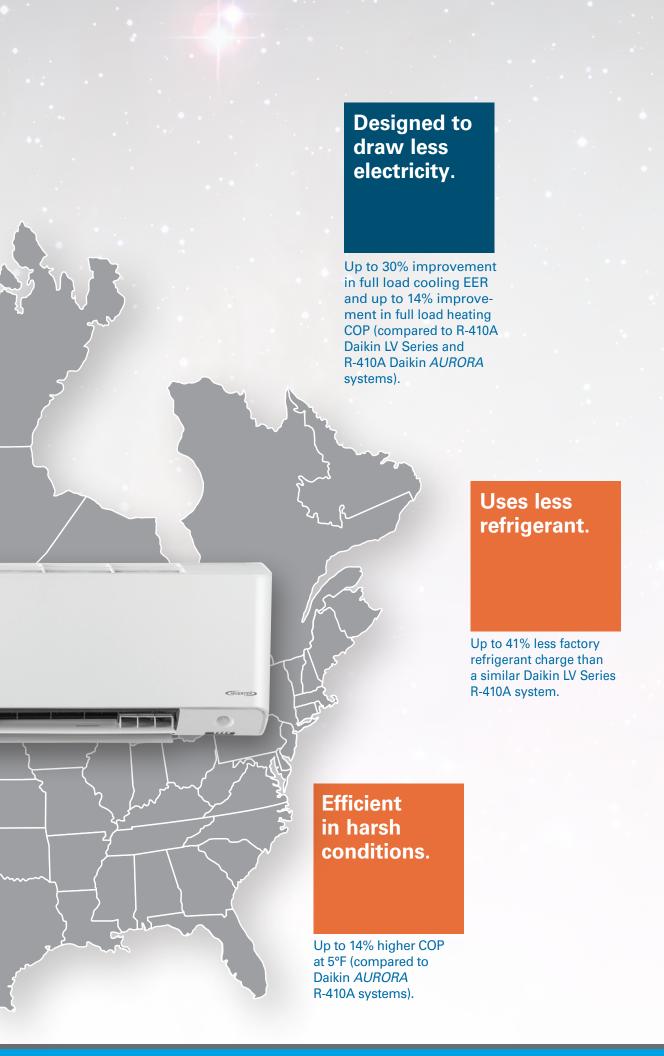
#### **Increased Factory Charge and piping** allowances.

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





## YEAR-ROUND COMFORT, WITH EFFICIENCY AT THE CORE.

#### 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.

Wh	/ is	it.	imno	rtant?
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The COP of a heat pump is the ratio of: COP= energy out/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.

To learn more about potential rebates and incentive in your area, please visit our rebate center at: www.daikincomfort.com/rebates

Up to						
27.4	16.3					
SEER2	EER2					
11.2	4.6					
HSPF2	COP					

Single Zone Daikin *ATMOSPHERA* Heat Pump Efficiency Ratings





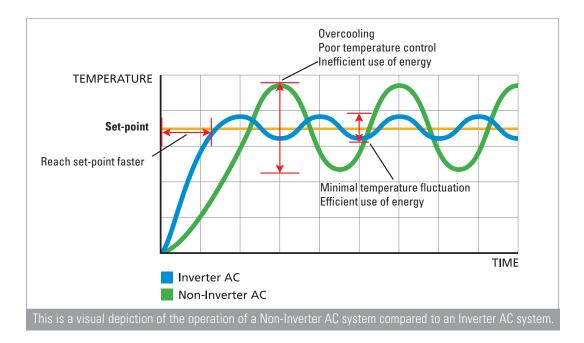






#### Comfort

The Daikin ATMOSPHERA system is an Inverter unit which runs continuously but adjusts the compressor's speed to meet the demand. Because it maintains the temperature consistently, your home will no longer feel too hot or too cold.







Learn more about the benefits of Daikin Inverter technology:

www.daikincomfort.com/go/inverter/



## 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 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 One+ Smart Thermostat



The Daikin *One*+ smart thermostat is available for Daikin *ATMOSPHERA*. With the 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.

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

#### 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.



## SPECIFICATIONS / ACCESSORIES

Indoor Unit  Model Outdoor Unit		nit	FTXM0	enrame	FTXM12WVJU9		FTXM18WVJU9		FTXM24WVJU9		
		RXM09WVJU9		RXM12WVJU9		RXM18WVJU9		RXM24WVJU9			
	Outdoor C		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.)		2 (4) 11	(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 Capac	ity at 5°F (-15°C)		-	11,000	-	13,600	-	21,600	-	24,000	
Max Heat Capac	ity at -13°F (-25°C)		-	10,000	-	10,700	-	16,200	-	18,000	
COP Rated			4.	.6	4	4.4		3.6		54	
COP at 5°F (-15°C	()		2	2	2		1.8		1.8		
EER2 Rated			16.3 13.2		3.2	12.5		12.0			
SEER2			27	7.4	25	5.2	22	2.7	22		
HSPF2			11	.2	10	).7		10	).0		
Di i	Liquid				J	Ø 1/4	(Ø 6.4)				
Piping Connections	Gas	in. (mm)		Ø 3/8	(Ø 9.5)		Ø 1/2 (	Ø 1/2 (Ø 12.7) Ø 5/8 (Ø 15.9)			
	Drain					Ø 5/8 (	(Ø 16.0)				
Max. Interunit Pi				82-1/6					(2 (30)		
Max. Interunit H	eight Difference	ft (m)		65-5/	(8 (20)	40.0	1/15	82-1/6	64 (25)		
Chargeless Amount of Addit	onal Charge of	oz/ft					2 (15)				
Refrigerant	onal charge of	(g/m)	0.22 (20)								
Operating Range			50° - 114.8°F (10° - 46°C)								
Operating Range Low-Ambient Co		°F DB	14° - 114.8°F (-10° - 46°C)								
Operating Range	- Cooling with		-4° - 114.8°F (-20° - 46°C)								
Optional Air Adju Operating Range		°F WB					(-25° - 18°C)				
	ndoor Unit	IVVD	FTXM09WVJU9 FTXM12WVJU9				FTXM18WVJU9 FTXM24WVJU9				
	Н		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	cfm	340 (9.6)	370 (10.5)	394 (11.2)	412 (11.7)	583 (16.5)	559 (15.8)	652 (18.5)	606 (17.2)	
Airflow Rate	L	(m³/min)	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, C	Quiet, Auto				
Air Direction Cor	trol					Right, Left, Horiz	ontal, 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				
$(H \times W \times D)$		(mm)		(299 × 9	20 × 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		
0	utdoor Unit		RXMOS	WVJU9	RXM12	WVJU9	RXM18	WVJU9	RXM24	WVJU9	
Refrigerant Type		R-32									
nemgerant	Charge	Lbs (kg)			(0.98)			2.98	(1.35)		
Airflow Rate	Н	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				
$(H \times W \times D)$		(mm)	(595 × 845 × 300)				(735 × 870 × 320)				
Weight		Lbs (kg)	96 (44)			132 (60)					
Sound Pressure Level	Н	dB(A)	47	49	49	52	54	55	55	56	
* Cutting a jumper			Refer to installation		1	1	1		1		

<sup>\*</sup> 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 Com	bination	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
FIXIVIUSVVVJUS	UVINIOAM ADOR	60 - 230	IVIIII. 187 V IVIAX. 233 V							
FTXM12WVJU9	RXM12WVJU9	60 - 208	Min. 187 V Max. 253 V	12.3	15	12	37	0.31	27	0.25
FIAIVIIZVVVJU9	NAMIZW VJUS	60 - 230	IVIIII. 107 V IVIAX. 233 V	12.3	10	12	3/	0.31	21	0.25
FTXM18WVJU9	RXM18WVJU9	60 - 208	Min. 187 V Max. 253 V	18.8	20	18.25	123	0.58	61	0.46
FIXIVITOVVVJUS	UVINITOM ADDA	60 - 230	IVIIII. 107 V IVIAX. 233 V	10.0	20	10.20	123	0.00	01	0.40
FTXM24WVJU9	RXM24WVJU9	60 - 208	Min. 187 V Max. 253 V	19.8	20	18.25	123	0.58	0.4	0.40
FIAIVIZ4VVVJU9	NAIVIZ4VV VJUS	60 - 230	IVIIII. 107 V IVIAX. 233 V	19.0	20	10.20	123	0.00	61	0.46

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)
		KPS063A44	Snow hood (intake rear plate) (18 & 24)
* requires KER087A41 s	21 conversion connector	KPS034A43	Snow hood (outlet) (09 & 12)
		KPS063A47	Snow hood (outlet) (18& 24)
		KKP937A4	Drain Plug

#### **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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