

Daikin *ATMOSPHERA*

Single Zone Heating
and Cooling System

Up to 27.4 SEER | Up to 13.8 HSPF |
Up to 16.3 EER



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 *ATMOSPHERA* Single Zone Heat Pump System



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.

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 SEER / Up to 13.8 HSPF / Up to 16.3 EER 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



LEARN MORE AT
WWW.DAIKINATMOSPHERA.COM



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.



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 style="list-style-type: none"> » Globally accepted » Installed base of over 160 million units from 40 OEMs 	<ul style="list-style-type: none"> » Excellent thermodynamic properties » Reduced indirect emissions vs. R-410A » Can consume less electricity over the lifetime of the equipment vs. R-410A 	<ul style="list-style-type: none"> » Pure, single-component refrigerant » Easy to top off, or clean and reuse on-site » Easy to reclaim and recycle 	<ul style="list-style-type: none"> » Adopted in over 90 countries » A component in R-410A » Non-proprietary

Emissions Comparison



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



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



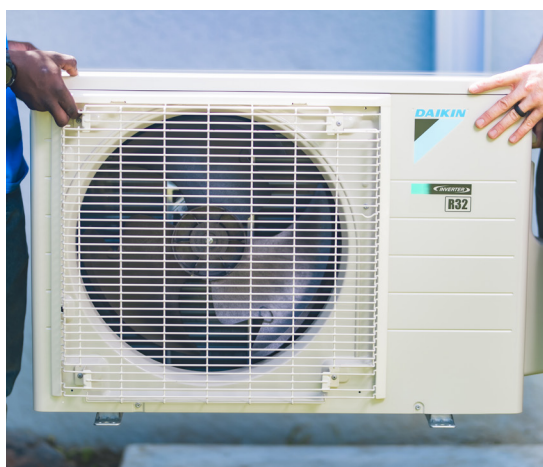
* www.epa.gov/greenvehicles/greenhouse-gas-emissions-typical-passenger-vehicle
 ** Calculated using the LCCP method with a 1-ton system installed in Seattle, WA.

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.



**115°F
(46°C)**

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

1 Econo Mode

2 3-D Airflow

3 Simplified Maintenance

4 Powerful Operation

5 Comfort Mode

6 Intelligent Eye

7 Hybrid Cooling

8 CLEAN Operation



Built-In Wi-Fi





R-32 Refrigerant


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


Increased Factory Charge and piping allowances vs. previous models


FEATURES AND BENEFITS OVERVIEW


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).

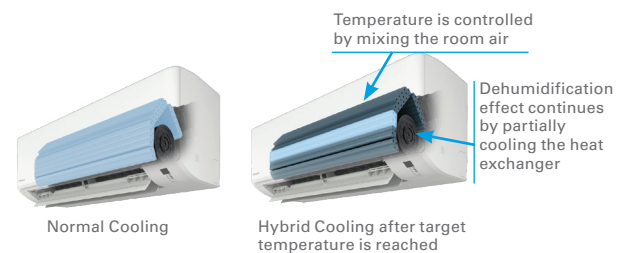
4  **Powerful Operation.**
Pushing the POWERFUL button on the remote control gives you a boost in cooling or heating power for a 20-minute period, even if the unit is already operating at high capacity.


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.



8  **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.

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)



* At the time of publication, Daikin *ATMOSPHERA* is only available in FL, WA, and OR. Contact your local distributor for regional needs and authorized sales of this product.



**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).

YEAR-ROUND COMFORT, WITH EFFICIENCY AT THE CORE.

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 heat pump system.




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.

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

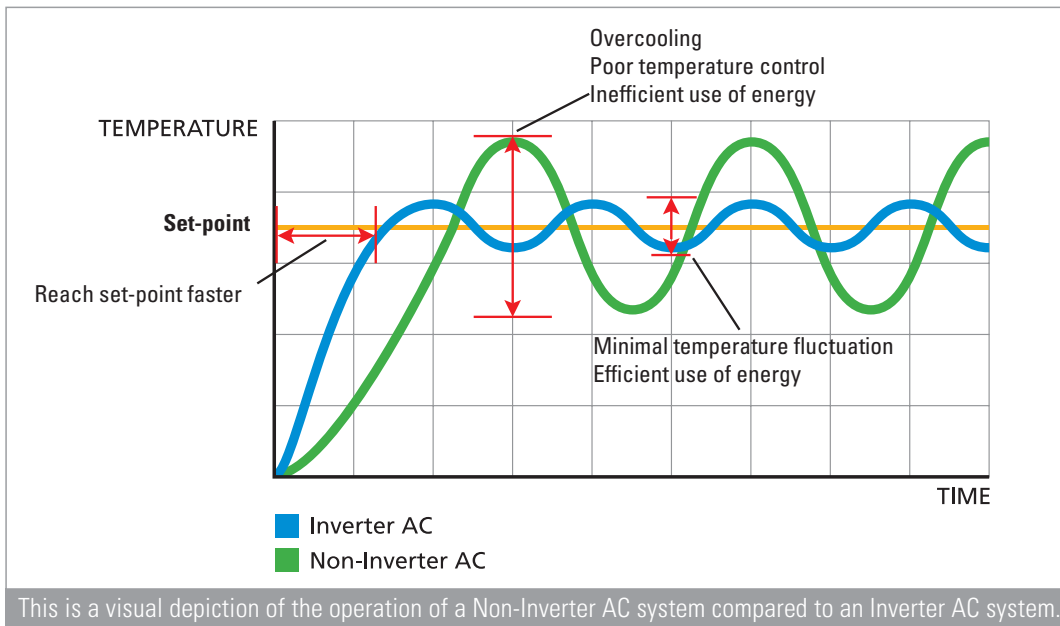
Up to	
27.4 SEER	16.3 EER
13.8 HSPF	4.6 COP

Single Zone Daikin *ATMOSPHERA* Heat Pump Efficiency Ratings

COP |  |  |  | **DAIKIN**
ATMOSPHERA
Up to 4.6
(Wall mount unit)

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

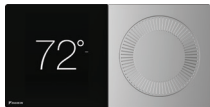
Daikin systems have an available infrared remote controller allowing you to access all functions at the click of a button.

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

Model	Indoor Unit		FTXM09VVJU		FTXM12VVJU		FTXM18VVJU		FTXM24VVJU		
	Outdoor Unit		RXM09VVJU		RXM12VVJU		RXM18VVJU		RXM24VVJU		
			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		3.8		3.54		
COP at 5°F (-15°C)			2		2		1.8		1.8		
EER Rated			16.3		13.2		12.5				
SEER			27.4		25.2		22.7		22		
HSPF			13.8		13		12.5				
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			FTXM09VVJU		FTXM12VVJU		FTXM18VVJU		FTXM24VVJU		
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			RXM09VVJU		RXM12VVJU		RXM18VVJU		RXM24VVJU		
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
FTXM09VVJU	RXM09VVJU	60 - 208	Min. 187 V Max. 253 V	12.3	15	12	37	0.31	27	0.25
		60 - 230								
FTXM12VVJU	RXM12VVJU	60 - 208	Min. 187 V Max. 253 V	12.3	15	12	37	0.31	27	0.25
		60 - 230								
FTXM18VVJU	RXM18VVJU	60 - 208	Min. 187 V Max. 253 V	18.8	20	18.25	123	0.58	61	0.46
		60 - 230								
FTXM24VVJU	RXM24VVJU	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 One+ 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)
		KPS034A43	Snow hood (outlet) (09 & 12)
		KPS063A47	Snow hood (outlet) (18 & 24)
		KKP937A4	Drain Plug

* requires KER087A41 s21 conversion connector

About Daikin:

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.daikinac.com>.



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.

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.

App Store is a registered trademark of Apple Inc.

Google Play and the Google Play logo are trademarks of Google LLC.

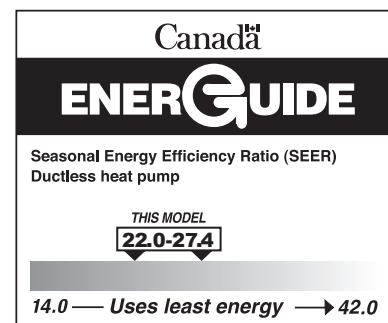
Google, Google Assistant, and all related logos are trademarks of Google LLC or its affiliates.

Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks are under license.

BACnet™ is a trademark of ASHRAE.

Modbus® is a registered trademark of Schneider Electric USA, Inc.



DAIKIN

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

© 2021 **DAIKIN NORTH AMERICA LLC** · Houston, Texas · USA · www.daikincomfort.com or www.daikinac.com

CB-ATMOSPHERA_12-21