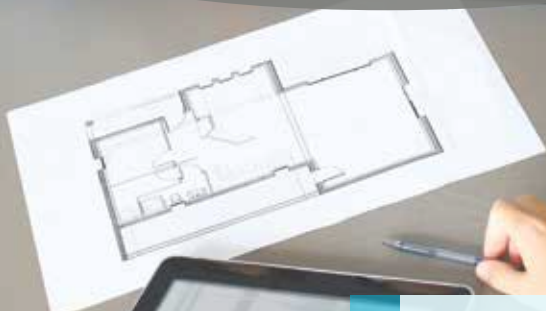




DUCTLESS PRODUCTS

**REFERENCE
GUIDE**





DAIKIN: THE PREMIUM BRAND INDUSTRY LEADER

Daikin Industries, Ltd. (DIL) is a global Fortune 1,000 company which celebrated its 90th anniversary in May 2014. The company is recognized as the largest HVAC (Heating, Ventilating, Air Conditioning) manufacturer in the world. Daikin is primarily engaged in developing indoor comfort products and 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.

KE Series

* Complete warranty details available from your local dealer or at www.daikincomfort.com and www.daikinac.com. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.



LV Series, Quaternity & MXS Multi-Zone

† Complete warranty details available from your local dealer or www.daikincomfort.com and www.daikinac.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 Quebec.



SkyAir (Light Commercial)

† Complete warranty details available from your local dealer or www.daikincomfort.com and www.daikinac.com.



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**PREMIUM-ENERGY,
HIGH-EFFICIENCY, INTELLIGENT
HEATING & COOLING SYSTEMS**

DUCTLESS SYSTEM BENEFITS

Features	Benefits
INVERTER-DRIVEN COMPRESSORS	Energy savings by using only the system capacity needed to heat or cool a space
TOTAL ZONE CONTROL	Cool and heat only rooms needing indoor comfort
INDIVIDUAL COMFORT	Personal comfort control in each room or zone
EASY INSTALLATION	Quick and easy installation, often within a day's work
ADVANCED FILTRATION	Cleaner air lessens the impact of mold, odors, and bacteria
YEAR-ROUND COMFORT	Heat in extreme climates, down to -4° F, without the need of supplemental heat (on some models).
QUIET OPERATION	Operating sound levels as low as 22 dB(A) for undisturbed home comfort.

INVERTER – THE OF THE DAIKIN SYSTEM

The inverter compressor is the heart of a Daikin system and maximizes energy savings and provides absolute comfort while only providing the energy needed to heat or cool a space.

USING



LESS ENERGY CONSUMPTION
WITH AN INVERTER COMPRESSOR
& FAN MOTOR TECHNOLOGY

WORKS BY CONTROLLING A
COMPRESSOR LIKE A THROTTLE
PEDAL CONTROLS A CAR ENGINE



ACHIEVING EFFICIENT PART LOAD PERFORMANCE



WITH AVERAGE **75%** OF TOTAL
OPERATING HOURS AT **LESS**
THAN 70% OF FULL CAPACITY

GENERATES THE SAME AMOUNT
OF HEAT OUTPUT AS ELECTRIC
BOOSTER HEAT WITHOUT THE
EXTRA ENERGY



LONGER COMPRESSOR LIFE WITH FEWER
STARTS AND LESS WEAR AND TEAR VS.
NON-INVERTER SYSTEMS

REFRIGERANT FLOW **DELIVERED** =
REFRIGERANT **REQUIRED** FOR SPACE

http://www.energystar.gov/certified-products/detail/ductless_heating_cooling

http://www.energystar.gov/index.cfm?c=products.pr_save_energy_at_home

http://www.bpa.gov/energy/n/Utilities_Sharing_EE/Energy_Smart_Awareness/pdf/BPA_DHP_Presentation_022708.pdf



DAIKIN

PRODUCT



Wall-Mounted

Ductless Models

KE SERIES | 9,000 - 24,000 BTU/h *Heat Pump or Cooling Only*



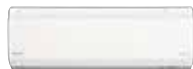
- Up to 18 SEER | Up to 8.5 HSPF
- Quiet operation as low as 22 dB(A)
- Low ambient heat operation down to 0°F *
- Energy savings at an affordable cost

LV SERIES | 9,000 - 36,000 BTU/h *Heat Pump or Cooling Only***



- Up to 24.5 SEER | Up to 12.5 HSPF
- Intelligent Eye occupancy sensor
- Weekly timer for programmable comfort
- Low ambient heat operation down to 0°F *
- Low ambient cooling kit available

QUATERNITY | 9,000 - 15,000 BTU/h *Heat Pump*



- Up to 26.1 SEER | Up to 11.0 HSPF
- Low ambient heating operation down to -4°F
- Dehumidifying to a preset relative setting
- Integrated air cleaner for advanced filtration for allergens, odors, and bacteria

FAQ/FTXS SERIES | 18,000 - 36,000 BTU/h *Heat Pump or Cooling Only*



- Up to 18.6 SEER | Up to 8.7 HSPF
- Vertical auto-swing function ensures efficient air distribution
- Removable front panel for easy cleaning
- Mold-resistant, washable filters

*with optional wind baffle

**On select models

Ceiling-Mounted

Ductless Models



2' X 2' CEILING CASSETTE

FFQ SERIES | 9,000 – 18,000 BTU/h

Heat Pump

- 2, 3 or 4-way airflow pattern
- Built-in condensate pump (up to 22")
- Fresh air intake knockout
- Match with multi-split MXS outdoor models only



SKYAIR ROUNDFLOW CASSETTE

FCQ SERIES | 18,000 – 42,000 BTU/h

Heat Pump or Cooling Only

- Up to 17.5 SEER | up to 10.1 HSPF
- 23 configurable airflow patterns ensure ideal airflow distribution
- 360° airflow reduces draft
- Stain-resistant decoration panel allows for easy cleaning
- Match with RZQ Heat Pump or RZR cooling only outdoor models



SKYAIR CEILING SUSPENDED

FHQ SERIES | 18,000 – 42,000 BTU/h

Heat Pump or Cooling Only

- Up to 18.0 SEER | up to 11.1 HSPF
- Auto-swing capability with 100° airflow pattern for comfortable distribution
- Lateral servicing space allows installation in corners, narrow spaces, walls, and ceilings
- Innovative stream fan technology
- Match with RZQ Heat Pump or RZR cooling only outdoor models

Ducted Models



LOW-STATIC (< 0.2) MODELS

FDXS & CDXS SERIES | 9,000 – 24,000 BTU/h
Heat Pump

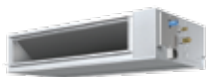
- Up to 15.5 SEER | Up to 10.4 HSPF
- Static capability up to 0.16" W.G.
- Compact design (7-7/8" in height)
- Rear or bottom return
- CDXS models compatible with multi-split outdoor models only
- Match with single zone RXS outdoor models or multi-zone MXS outdoor models



SKYAIR MEDIUM-STATIC (< 0.5) MODELS

FTQ SERIES | 18,000 – 42,000 BTU/h
Heat Pump

- Up to 20.0 SEER | Up to 12.0 HSPF
- Low ambient heat operation down to -4°F
- Upflow or horizontal right configurations
- Field-installed electric heat options available from 3 kW to 15 kW
- Match with RZQ Heat Pump Models



SKYAIR HIGH-STATIC (< 0.8) MODELS

FBQ SERIES | 18,000 – 42,000 BTU/h
Heat Pump or Cooling Only

- Up to 17.5 SEER | Up to 10.6 HSPF
- Medium external static pressure (ESP) capabilities up to 0.8" W.G.
- Three user selected fan speeds available plus fan "Auto" logic
- Built-in condensate pump
- Bottom access for easy service
- Match with RZQ Heat Pump or RZR cooling only outdoor models

Outdoor Units



SINGLE-ZONE MODELS

RXN, RXS, RXG Heat Pump or RKN Cooling Only

9,000 – 24,000 BTU/h

- Up to 26.1 SEER
- Available in 4 different models
- Slim, compact design
- 33 ft. of pre-charged refrigerant piping
- For rooms up to 1,600 SF



RXS & RZQ Heat Pump or Cooling Only

18,000 – 42,000 BTU/h

- Up to 20.0 SEER
- Choose from 6 indoor ducted and ductless model types
- Up to 230 ft. total piping length
- Operation down to 0°F (-40°F with optional low ambient cooling kit on select models)
- User-friendly, intelligent controls



MULTI-ZONE MODELS

MXS Heat Pump

18,000 – 48,000 BTU/h

- Up to 19.5 SEER and up to 9.5 HSPF
- Mix and match indoor unit flexibility
- Up to 130% connection ratio on the 8-Zone outdoor model
- Long piping lengths up to 433 ft. total
- Connect 2-8 indoor units to one outdoor unit

Daikin ENVi Wired Thermostat

Intelligent comfort control anytime, anywhere

The Daikin ENVi Intelligent Thermostat is an intelligent, user-friendly residential control offer that gives the homeowner full access to comfort control at or away from home. With supported Wi-Fi connectivity, homeowners can monitor and control their Daikin systems via PC through the User Web Portal or Daikin ENVi apps available via smart phone and/or Internet-enabled tablet on Apple, Android and Blackberry devices.

www.DaikinENVi.com



Easy-to-use

User-friendly interface makes it easy to set up your personalized program, adjust your settings, and make adjustments anytime, anywhere.



Nature

Save money on your utility bills and reduce energy consumption (as compared to non-scheduled systems) with the weekly schedule.



Value

Access your own personal and secure web page to manage all aspects of your thermostat at no cost to you.



Intelligent

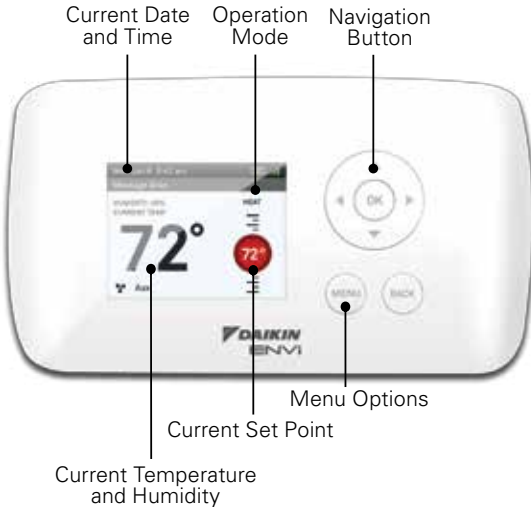
Receive automatic alerts and reminders for service due dates, filter changes, and more.



For details, contractor benefits, and access to the Daikin ENVi Contractor Portal, refer to Page 26 or visit

<http://www.ecobee.com/contractors>

DACA-TS1-1



Features Include:

- Wi-Fi enabled for access anywhere via smart phone, tablet, or computer
- Weekly schedule
- Live weather forecasts
- Automated alerts and reminders
- Cool, heat, and auto modes with dual set point control
- Setback control
- Room temperature and relative humidity display

Wireless Remote Controller

Comfort control at your fingertips



Want to make your room comfortable at the touch of a single button? No problem. Wall-mounted and slim-ducted units come with a user-friendly remote control featuring a minimalistic, modern design in a matte crystal-white finish that forms a perfect match with the indoor unit.

CONTROLLER FEATURES INCLUDE:

- **FAN:** Fan speed adjustment
- **POWERFUL:** System boost for 20 minutes in current operating mode
- **MODE:** HEAT, COOL, AUTO, DRY
- **TEMP:** Setpoint adjustment
- **COMFORT*:** Adjusts louver position based on mode
- **SENSOR*:** Intelligent Eye occupancy sensor
- **SWING*:** Automatic vertical and horizontal auto-swing
- **WEEKLY*:** 7-day programmable schedule
- **TIMER:** Timer and clock adjustment

**Available on Select Systems*



Optional wall-mounted wired controller (BRC944B2) available (requires KRP adapter on the 09,12 KE models)

BRC1E72 Navigation Controller

Advanced, configurable comfort.

The Navigation Controller provides advanced comfort with as little or as much control as your home or business desires. Choose from an advanced or simplified display or one of the available optional face decals for comfort in a minimal, sleek design.



Advanced Display



Simplified Display

Optional Face Decals

Single Setpoint Face Decals for Simplified Display



BRC1E72RM



BRC1E72RF



BRC1E72RMF

Dual Setpoint Face Decals for Simplified Display



BRC1E72RM2



BRC1E72RF2



BRC1E72RMF2

Features & Functions:

Basic Operation

Operation Mode

Set Point

Fan Speed, Airflow Direction

Auto On/Off Timer

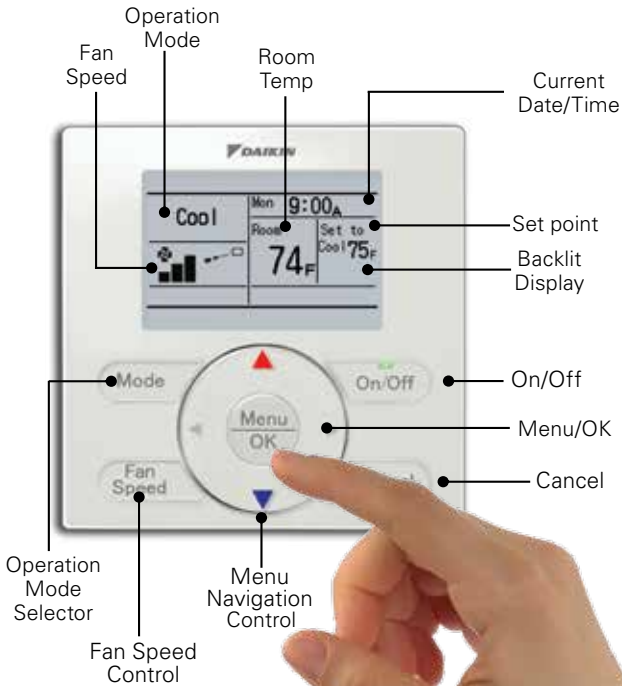
Function

Configurable Display

Auto-Changeover

Weekly Schedule

Independent Cooling and Heating Set Points and Setback for unoccupied periods



A photograph of a modern, minimalist living room. A white sofa is on the left, and a white coffee table is in the center. On the table are a dark bowl, a tall vase with pink flowers, and a small black container. A white air conditioning unit is mounted on the wall above the sofa.

SELLING & INSTALLATION TIPS



Recommended Installation Tools

Make sure to use installation tools that are exclusively used for R-410A installations to withstand the pressure and to prevent foreign materials from mixing into the system.

- 1/4" - 5/8" Torque Wrench
- Adjustable Wrenches
- Charge Hose
- Deburring Tool
- Flare Gauge Set
- Flaring Block
- Gauge Manifold
- Nitrogen
- Phillips Screwdriver
- Tubing Cutter
- Vacuum Pump

Ductless Selling Tips



Look for opportunities to sell Daikin Ductless systems on EVERY call.

1. Discover homeowner problems and needs.

Ask questions and have customers fill out a comfort survey prior to or during the visit.

- Lifestyle – age of home, family members in home, main living areas (bedroom, living room), remodeling, etc.
- Comfort – airflow issues, hot or cold rooms, noise issues, air quality, etc.
- Energy – average energy bills, expected utility trends, energy improvements to home, etc.

2. Look for additional comfort and energy saving opportunities throughout the home.

- Areas with heavy or low sunlight
- Empty rooms
- Space heaters or portable air conditioners
- Air filtration devices
- Sunrooms, porches, basements, attics, additions

3. Introduce Daikin Ductless systems features and benefits.

- Next generation heating and cooling
- Ductless and ducted system options for individual rooms or entire homes
- Maximum energy efficiency
- Heat and cool only the rooms you use
- Individual room comfort control
- Long-life, washable filters with allergen filtration
- Quick and easy installation
- High quality, reliable products with outstanding warranties*



4. Introduce the benefits of Daikin ENVi Intelligent Thermostats.

- Control remotely from anywhere using PC, smart phone or tablet
- Traditional thermostat functionality
- Bright, backlit display
- View room temperature, relative humidity, outdoor temperature and weather forecast

5. Include Daikin Ductless system options with your proposal and differentiate from the competition.

- Go beyond traditional ductless systems and offer more comfort choices
- Recommend an option that includes a Daikin system
- Provide your customers with superior comfort, control and efficiency

*Complete warranty details available from you Daikin distributor.

Ductless Installation Best Practices

Outdoor Unit (Compressor)

- Locate the outdoor unit on a stable level surface solid enough to bear the weight and potential vibration of the unit.
- Use adjustment risers to place the unit off the ground to minimize debris and snow buildup and improve drainage. Do not place anything under the unit which must be kept away from moisture.
- Secure outdoor units to pads, risers and/or surface using bolts and/or adhesives.



Condensate Drain

- Install with a downhill slope. Drain may be routed with line set and run to a proper termination point so long as it is away from crawl spaces and walkways.

Refrigerant Charge

- Ensure the system has the proper refrigerant charge. Many installations may not require adjustments.
- Gauges to verify refrigerant levels are only needed when adjustments are necessary. A scale must be used to ensure a proper charge when adding or removing refrigerant.

Properly installed Daikin systems can provide:

- Reduced callbacks and improved profitability
- Valuable energy savings for your customers
- Improved customer satisfaction
- Increased referrals and future sales

Attend a Daikin University course for more information. Register online at www.DaikinUniversity.com

Line Set Insulation and Protection

- Cover the entire line set length with insulation to avoid condensation. Refer to installation manual for proper insulation dimensions.
- Use separate thermal insulation pipes for gas and liquid refrigerant pipes.
- Use line cover to protect the outdoor portion of the insulated line set to avoid premature insulation damage.
- Add UV tape as needed on areas without line cover to ensure protection of the entire line set length.

Cold Climate Efficiency and Installation Tips

Indoors

- Furnaces or Zonal Electric Heat – Set back at the thermostat or shut off at the breaker for furnace or zonal heat so that it does not compete with the Daikin system.
- Temperature Set Back – Set programmable thermostat to HEAT with the fan in ON position for air distribution and set the temperature 4° F below the Daikin system.

Outdoors

- Increase clearance under the outdoor unit to promote easy drainage and reduce snow and ice buildup.
- Consider wall-mount brackets to increase outdoor unit clearance.
- Use a pan heater to avoid defrost discharge freezing inside the condenser in extreme climates.



Homeowner Education



- Use Daikin systems as the primary heating and cooling system to increase comfort and efficiency. Secondary heating and cooling systems can remain off until needed as a supplement.
- Regular washing and cleaning of the filters can maintain performance and efficiency of Daikin ductless systems.
- Familiarize customers with all features provided on the Remote functionality, please see the Controller Quick User Guides:
 - BRC944B2 Controller Quick User Guide
 - ARC433 A51/A53/A63 Controller Quick User Guide
 - ARC447A3 Quaternity Controller Quick User Guide

continued on next page



- Introduce the features of Daikin ENVI Intelligent Thermostats.
 - Wi-Fi set-up
 - PC, smart phone, tablet control
 - System control and scheduling
 - Outside temperature, humidity and weather forecasts
- Explain temperature control from remote controller, set temperature setpoints that provide the desired comfort level for heat and cool operations.
- Select and set the priority zone setting (Multi-split & Super Multi).

Recommended Ductless System Maintenance Performed by an HVAC Technician

- Check and clean air filters
- Wash outdoor coil on a regular bi-annual (twice a year) schedule
- Wash out float reservoir for condensate pumps (spring or fall)
- Check and replace hand-held Remote Controller batteries annually
- Check all electrical connections
- Check flare connections for oil (presence of oil can indicate a refrigerant leak)
- Clean debris (leaves – grass – dirt) from base pan of outdoor unit to ensure condensate drainage in heating season



Daikin ENVi Contractor Portal

Build and grow your customer relationship and business

The ENVi provides you with a Contractor Portal which allows you to enhance your relationship with your customers and grow your business.

Benefits

The Contractor Portal offers a variety of ways to maintain your relationship with your customers such as:

- Uploading your business information and logo so that it appears on your customers' alerts and reminders.
- Sending branded Service Reminders to your customers based upon your preferred service schedule.
- Viewing the make and model of your Daikin HVAC equipment right from your portal.
- Accessing your customers' HVAC Reports for remote troubleshooting and diagnostics.
- Communicating specials and promotions to your customers and increase your web traffic by adding the Daikin ENVi login portal to your company's web page.

The Preferred Contractor Program is administered by Ecobee



Become A Preferred Contractor

To gain access to the Contractor Portal and be listed as a preferred contractor, you must fill out an application form at:

<https://www.ecobee.com/contractors/account/>

Once approved, you will receive an e-mail confirmation in which you will then be able to access the portal. From there, you are on your way to helping enhance your business and the relationship with your customers.

To be listed as a Preferred Contractor, contractors must have 3 or more ENVi Thermostats registered to the portal. End users will then be able to see your company on the preferred contractor list from the User Web Portal.



The image shows a screenshot of the Ecobee Contractor Portal application form. At the top, it says "Thanks for your interest in ecobee!" followed by instructions to fill out the application form to request an account. Below this, there is a section titled "Want to take your business to the next level? Become an ecobee Preferred Contractor". To the left of this section is a photograph of a man in a white shirt working on a thermostat. To the right, it states that Preferred Contractors get listed on the ecobee website under "Where to Buy" and that they must have at least 3 thermostats registered. A note at the bottom of this section says, "Note that all Preferred Contractors are required to respond to client requests through our online Request a Quote system within 72 hours in order to remain in good standing as a Preferred Contractor." At the bottom of the screenshot, there is a blue banner that says "Application Form".

Please note that confirmations may take up to 24 hours from the time of registration submission.

The Preferred Contractor Program is administered by Ecobee

Daikin eQuip



PRODUCT

SELLING &
INSTALLATION
TIPS

SPECIFICATIONS
& ACCESSORIES

DESIGN

Enhance the way you do business with Daikin eQuip, Daikin's FREE mobile app that gives you Ductless support at your fingertips.

Daikin eQuip is designed for both smart phones and tablets, and places information in your hands quickly and easily for all of your on-the-go needs. Use this app to:

- Search for information related to Daikin and any of our products, to download your most often referenced documents for quick and easy future access.
- Search, share, and send information via email or text message (SMS) for immediate sharing.
- Receive instant updates (Wi-Fi or Cellular service required) for the most up to date news and information on Daikin.

SCAN NOW to get
Daikin instantly
at your *fingertips*.



Dr. Daikin

Dr. Daikin is a quick and easy way to identify fault codes related to Daikin systems. By simply texting the code to a special number, or entering the code on the website, information will be received as to:

- The applicable product family
- Whether the code is related to an indoor or outdoor unit
- Identification of the fault code, and
- Several possible causes of the fault.

Web: <http://www.drdaikin.com>

Mobile Web: <http://mobile.drdaikin.com>

Enter the error code and check the box indicating agreement to the disclaimers and click the blue arrow. The explanation will be instantly displayed along with the applicable component (indoor unit, outdoor unit, or system), applicable product family, and two to four possible causes.



Text Messaging

Send the word "Error" and the code to the following number: 32075. For example "Error A3". Please note there must be a space between the words "Error" and "A3". Press send. Receive a reply within 30 seconds.

Note: the system is not case sensitive; for convenience you may choose to send "error a3" in place of "Error A3".

These tools are intended as general guidelines for troubleshooting, and are not meant to be a substitute for Daikin's printed service materials. If you have any questions please call Daikin Technical Support at 1-866-4-DAIKIN, email to techsupport@daikinac.com.



Resources

The Daikin website offers instant access to brochures, manuals and other commonly used resources.

Installation Manuals



Service Manuals



Product Brochures



A photograph of a modern kitchen interior. The ceiling is white with several recessed circular lights and a square-shaped ceiling vent. The walls are light-colored, and there are built-in shelves with various items. The overall atmosphere is bright and clean.

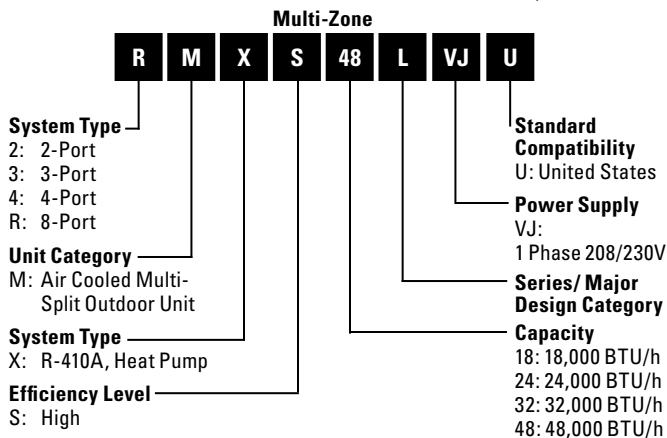
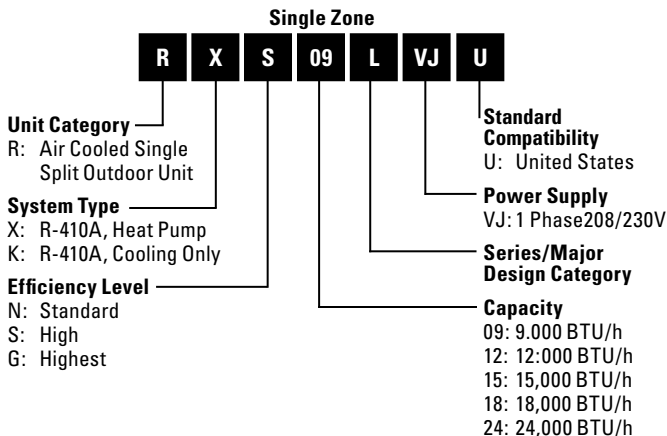
SPECIFICATIONS & ACCESSORIES



Nomenclature

Ductless Split Systems

How to Read Model Numbers – Outdoor Units



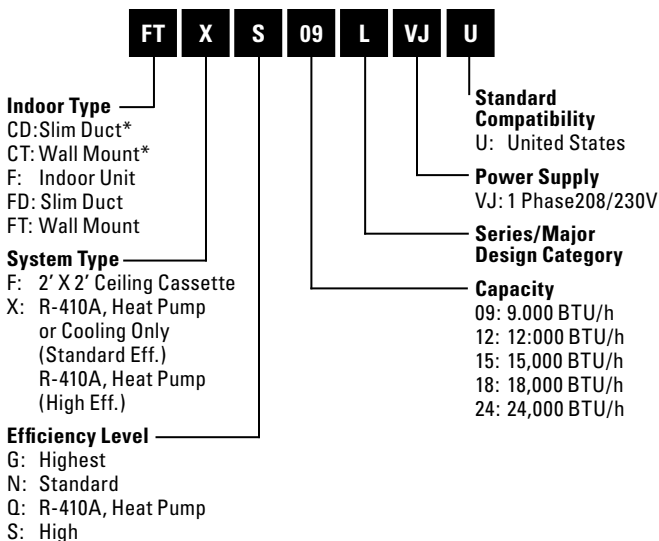
Single & Multi-Split Systems (9,000 – 48,000 BTU/h)

- For residential and light commercial buildings
- High heating capacity at lower ambient temperatures
- Energy Star® and Tax Credit qualified models

Nomenclature

Ductless Split Systems

How to Read Model Numbers – Indoor Units



*Compatible with multi-split MXS outdoor units only

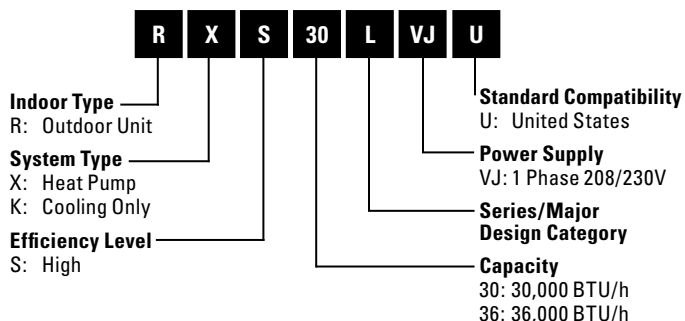
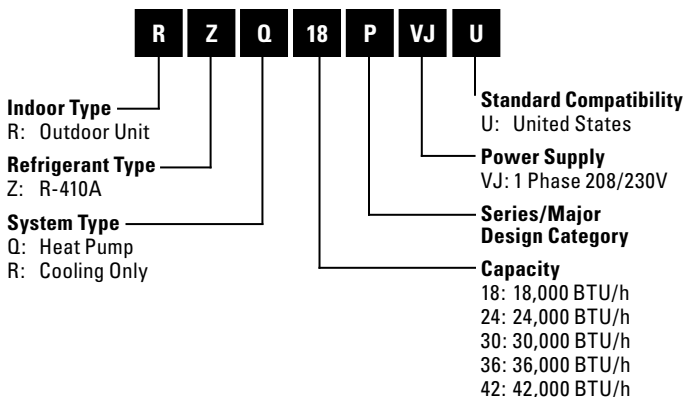
Single & Multi-Split Systems (9,000 – 48,000 BTU/h)

- Precise temperature control for individual comfort
- Whisper, quiet operating sounds as low as 22 dB(A)
- Discreet, modern design made to blend with any decor

Nomenclature

SkyAir Ductless System

How to Read Model Numbers



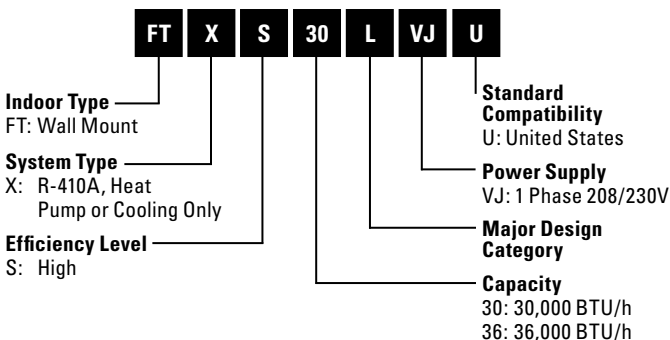
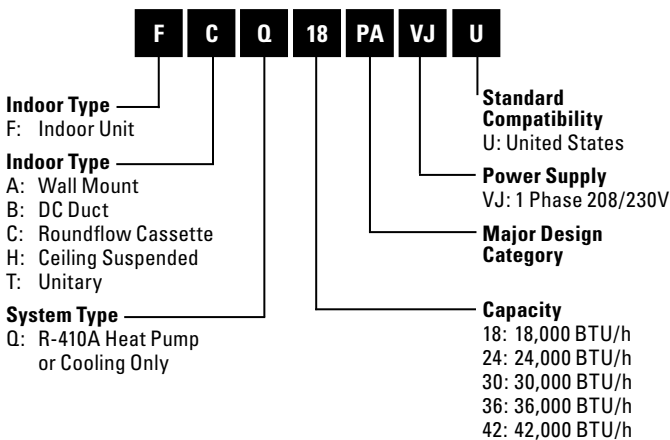
SkyAir Systems (18,000 – 42,000 BTU/h)

- For large residential and light commercial buildings
- Long piping lengths provide design flexibility
- Low ambient cooling operation down to 0 °F with optional -40 °F capabilities on select systems

Nomenclature

SkyAir Ductless System

How to Read Model Numbers



SkyAir Systems (18,000 – 42,000 BTU/h)

- Ducted and non-ducted indoor units offer versatility for almost any application
- Self-diagnostic capabilities offer worry-free operation and reliability

KE Series Specs

Wall-Mounted Ductless Heat Pump or Cooling Only

Nominal Tons			0.75 Ton
Indoor Model#			FTXN09KEVJU5
Outdoor Model#	Cooling Only		RKN09KEVJU5
	Heat Pump		RXN09KEVJU5
Cooling Capacity(Rated)		BTU/h	9,000
Cooling Capacity (Min – Max)		BTU/h	4,400 – 9,500
Heating Capacity (Rated)*		BTU/h	10,000
Heating Capacity (Min – Max)*		BTU/h	4,400 – 11,600
SEER / HSPF			18 / 8.5
COP / EER			3.49 / 12.0
Power Supply			208/230V/1 Ph
Minimum Circuit Amps		A	4.8
Maximum Overcurrent Protection		A	15.0
Liquid Piping Connections (O.D.)		in.	Ø 1/4
Gas Piping Connections (O.D.)		in.	Ø 3/8
Condensate Drain		in.	Ø 5/8
Max. Piping Length		ft.	65.6
Max. Piping Height		ft.	49.2
Indoor Dimensions (H x W x D)		in.	11% x 30% x 7%
Outdoor Dimensions (H x W x D)		in.	21% x 25% x 10%

*Applicable to heat pump models only

**Refer to installation manual for more details.



1.0 Ton	1.25 Ton	1.5 Ton	2.0 Ton
FTXN12KEVJU5	FTXN15KVJU	FTXN18KVJU	FTXN24KVJU
RKN12KEVJU5	RKN15KEVJU5	RKN18KEVJU5	RKN24KEVJU5
RXN12KEVJU5	RXN15KEVJU5	RXN18KEVJU5	RXN24KEVJU5
12,000	15,000	18,000	22,000
4,400 – 12,000	5,800 – 15,000	5,800 – 18,000	5,800 – 22,000
13,500	18,000	21,600	24,000
4,400 – 16,400	5,800 – 21,200	5,800 – 24,000	5,800 – 25,400
18 / 8.5	18 / 8.5	18 / 8.5	18 / 8.5
3.25 / 9.9	3.05 / 12.0	2.88 / 12.0	2.78 / 8.6
208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph
7.0	15.5	15.5	15.5
15.0	20.0	20.0	20.0 Ø
1/4	Ø 1/4	Ø 1/4	Ø 1/4
Ø 3/8	Ø 1/2	Ø 1/2	Ø 1/2
Ø 5/8	Ø 11/16	Ø 11/16	Ø 11/16
65.6	98.2	98.2	98.2
49.2	65.6	65.6	65.6
	11 ⁷ / ₁₆ X 41 ⁵ / ₁₆ X 9%		
	23 ⁷ / ₁₆ X 31 ⁵ / ₁₆ X 11 ¹³ / ₁₆		

LV Series Specs

Wall-Mounted Ductless Heat Pump

Nominal Tons		0.75 Ton
Indoor Model#		FTXS09LVJU
Outdoor Model#		RXS09LVJU
Cooling Capacity (Rated)	BTU/h	10,600
Cooling Capacity (Min – Max)	BTU/h	4,400 – 10,600
Heating Capacity (Rated)*	BTU/h	15,600
Heating Capacity (Min – Max)*	BTU/h	4,400 – 15,600
SEER / HSPF		24.5 / 12.5
COP / EER		4.46 / 15.3
Power Supply		208/230V/1 Ph
Minimum Circuit Amps	A	8.00
Maximum Overcurrent Protection	A	15.0
Liquid Piping Connections (O.D.)	in.	Ø 1/4
Gas Piping Connections (O.D.)	in.	Ø 3/8
Condensate Drain	in.	Ø 5/8
Max. Piping Length	ft.	65.6
Max. Piping Height	ft.	49.2
Indoor Dimensions (H x W x D)	in.	11½ x 31½ x 8 ⁷ / ₁₆
Outdoor Dimensions (H x W x D)	in.	21½ x 30¾ x 11¼

*Refer to installation manual for more details.



1.0 Ton	1.25 Ton	1.5 Ton	2.0 Ton
FTXS12LVJU	FTXS15LVJU	FTXS18LVJU	FTXS24LVJU
RXS12LVJU	RXS15LVJU	RXS18LVJU	RXS24LVJU
13,800	18,000	21,600	25,800
4,800 – 13,800	5,800 – 18,000	5,800 – 21,600	7,800 – 25,800
14,400	18,000	21,600	25,400
4,800 – 18,000	5,800 – 22,300	5,800 – 26,700	7,800 – 31,400
23 / 12.5	20.6 / 11.6	20.3 / 11	20.0 / 10.6
4.35 / 12.8	4.00 / 14.4	3.70 / 12.7	3.37 / 12.5
208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph
8.75	13.75	13.75	17.50
15.0	20.0	20.0	20.0
Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4
Ø 3/8	Ø 1/2	Ø 1/2	Ø 5/8
Ø 5/8	Ø 5/8	Ø 5/8	Ø 5/8
65.6	98.4	98.4	98.4
49.2	65.6	65.6	65.6
	$13\frac{3}{8} \times 41\frac{5}{16} \times 9\frac{3}{8}$		
	$28\frac{15}{16} \times 32\frac{1}{2} \times 11\frac{13}{16}$		$30\frac{5}{16} \times 35\frac{7}{16} \times 12\frac{3}{8}$

LV Series Specs

Slim Duct Heat Pump



Nominal Tons		0.75 Ton	1.0 Ton
Indoor Model#		FDXS09LVJU	FDXS12LVJU
Outdoor Model#		RXS09LVJU	RXS09LVJU
Cooling Capacity (Rated)	BTU/h	8,500	11,500
Cooling Capacity (Min – Max)	BTU/h	4,400 – 8,500	4,800 – 11,500
Heating Capacity (Rated)*	BTU/h	10,000	11,500
Heating Capacity (Min – Max)*	BTU/h	4,400 – 10,000	4,800 – 11,500
SEER / HSPF		15.1 / 10.3	15.5 / 10.4
COP / EER		3.45 / 11.2	3.51 / 9.1
Power Supply	V/PH/Hz	208/230V/1 Ph	208/230V/1 Ph
Minimum Circuit Amps	A	8.00	8.75
Maximum Overcurrent Protection	A	15	15
Liquid Piping Connections (O.D.)	in.	Ø 1/4	Ø 1/4
Gas Piping Connections (O.D.)	in.	Ø 3/8	Ø 3/8
Condensate Drain	in.	Ø 25/32	Ø 25/32
Max. Piping Length	ft.	65.6	65.6
Max. Piping Height	ft.	49.2	49.2
Indoor Dimensions (H x W x D)	in.	7 $\frac{7}{8}$ x 27 $\frac{9}{16}$ x 27 $\frac{7}{16}$	
Outdoor Dimensions (H x W x D)	in.	21 $\frac{1}{8}$ x 30 $\frac{1}{8}$ x 11 $\frac{1}{4}$	

*Refer to installation manual for more details.

Quaternity Specs

Wall-Mounted Ductless Heat Pump

Nominal Tons		0.75 Ton	1.0 Ton	1.25 Ton
Indoor Model#		FTXG09HVJU	FTXG12HVJU	FTXG15HVJU
Outdoor Model#		RXG09HVJU	RXG12HVJU	RXG15HVJU
Cooling Capacity (Rated)	BTU/h	9,000	12,000	15,000
Cooling Capacity (Min – Max)	BTU/h	5,300 – 12,300	5,300 – 15,700	5,300 – 18,000
Heating Capacity (Rated)*	BTU/h	12,000	16,000	18,000
Heating Capacity (Min – Max)*	BTU/h	4,400 – 18,000	4,400 – 19,100	4,400 – 21,200
SEER / HSPF		26.1 / 11.0	24.2 / 10.6	21.0 / 10.0
COP / EER		4.51 / 15.8	4.04 / 14.0	3.99 / 12.9
Power Supply		208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph
Minimum Circuit Amps	A	14.5	14.5	14.5
MOCOP	A	15.0	15.0	15.0
Liquid Piping Connections (O.D.)	in.	Ø 1/4	Ø 1/4	Ø 1/4
Gas Piping Connections (O.D.)	in.	Ø 3/8	Ø 3/8	Ø 3/8
Condensate Drain	A	Ø 11/16	Ø 11/16	Ø 11/16
Max. Piping Length	ft.	32	32	32
Max. Piping Height	ft.	26	26	26
Indoor Dimensions (H x W x D)	in.	12 x 35 ^{1/32} x 8 ^{7/32}		
Outdoor Dimensions (H x W x D)	in.	22 ^{3/8} x 31 ^{9/32} x 11 ^{7/32}		

MXS Specs

Multi-Split Ductless Outdoor Unit

Outdoor Model#		2MXS18GVJU	3MXS24JVJU
Nominal Capacity	BTU/h	18,000	24,000
Max. Connective Cap.	BTU/h	18,000	39,000
Min – Max No. of Indoor Units		2	2 – 3
Power Supply		208/230V/1 Ph	208/230V/1 Ph
Minimum Circuit Amps	A	11.1	17.8
MOCP	A	20.0	20.0
Max. Total Piping Length		ft. 164	230
Max. Piping Length to Indoor	ft.	82	82
Max. Piping Height		ft. 49.2	49.2
Outdoor Dimensions (H x W x D)	in.	28 ¹⁵ / ₁₆ x 32 ¹ / ₂ x 11 ¹³ / ₁₆	30 ⁵ / ₁₆ x 35 ⁷ / ₁₆ x 12 ³ / ₈
SEER/HSPF (non-ducted)		19.5 / 9.2	16.6 / 9.0
SEER/HSPF (mixed)		16.3 / 8.5	14.3 / 8.35
SEER/HSPF (ducted)		13.0 / 7.7	13.0 / 7.7
COP / EER (non-ducted)		3.40 / 12.60	3.20 / 12.50
COP / EER (mixed)		3.15 / 10.80	3.15 / 10.80
COP / EER (ducted)		2.90 / 9.00	2.70 / 9.70

Compatibility	2MXS18	3MXS24	4MXS32	RMXS48
CTXS07LVJU	X	X	X	X
CTXS09HVJU	X	X	X	X
CTXS12HVJU		X	X	X
FTXS15LVJU		X	X	X
FTXS18LVJU		X	X	X
FTXS24LVJU				X
FDXS09LVJU	X	X	X	X
FDXS12LVJU		X	X	X
CDXS15LVJU		X	X	X
CDXS18LVJU		X	X	X
CDXS24LVJU				X
FFQ09LVJU	X	X	X	X
FFQ12LVJU		X	X	X
FFQ15LVJU		X	X	X
FFQ18LVJU		X	X	X

4MXS32GVJU	RMXS48LVJU
30,600	48,000
45,000	62,400
2 – 4	2 – 8
208/230V/1 Ph	208/230V/1 Ph
18.0	27.0
20.0	30.0
230	433
82	230
49.2	98.4
	52 ¹⁵ / ₁₆ X 35 ⁷ / ₁₆ X12%
17.2/9.3	18.8/11.3
15.25/8.6	16.5/10.5
13.3/7.9	14.1/9.6
3.40 / 10.30	10.3 / 3.0
3.00 / 8.40	9.8 / 2.9
3.20 / 9.35	9.3 / 2.7



RMXS48LVJU requires at least one branch port unit. Two sizes available, 2-port and 3-port. Refer to installation manual for full refrigerant piping lengths and requirements.

MXS Specs

Indoor Units

Wall-Mounted Units

Indoor Model#		CTXS07LVJU	CTXS09HVJU
Cooling Capacity (Nominal)	BTU/h	7,000	9,000
Heating Capacity (Nominal)	BTU/h	8,500	12,000
Liquid Piping Connection (O.D.)	in.	Ø 1/4	Ø 1/4
Gas Piping Connection (O.D.)	in.	Ø 3/8	Ø 3/8
Condensate Drain	in.	Ø 5/8	Ø 11/16
Indoor Dimensions (H x W x D)	in.	11 $\frac{1}{2}$ x 31 $\frac{1}{2}$ x 8 $\frac{7}{16}$	11 $\frac{7}{16}$ x 31 $\frac{5}{16}$ x 9 $\frac{9}{16}$

Slim-Duct Units

Indoor Model#		FDXS09LVJU
Rated Capacity Class	BTU/h	9,000
External Static Pressure	"W.G.	0.12
Liquid Piping Connection (O.D.)	in.	Ø 1/4
Gas Piping Connection (O.D.)	in.	Ø 3/8
Condensate Drain	in.	Ø 1-1/32
Indoor Dimensions (H x W x D)	in.	7 $\frac{7}{8}$ x 27 $\frac{9}{16}$ x 24 $\frac{7}{16}$

2' X 2' Ceiling Cassette Units

Indoor Model#		FFQ09LVJU
Cooling Capacity (Nominal)	BTU/h	9,500
Heating Capacity (Nominal)	BTU/h	11,100
Liquid Piping Connection (O.D.)	in.	Ø 1/4
Gas Piping Connection (O.D.)	in.	Ø 3/8
Condensate Drain	in.	Ø 1-1/32
Indoor Dimensions (H x W x D)	in.	11 $\frac{1}{4}$ x 22 $\frac{3}{4}$ x 22 $\frac{3}{4}$



CTXS12HVJU	FTXS15LVJU	FTXS18LVJU	FTXS24LVJU
12,000	15,000	18,000	21,500
14,400	18,000	21,600	25,400
Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4
Ø 3/8	Ø 1/2	Ø 3/8	Ø 5/8
Ø 11/16	Ø 5/8	Ø 5/8	Ø 5/8

11⁷/₁₆ x 31⁵/₁₆ x 9%

13% x 41% x 9%

FDXS12LVJU	CDXS15LVJU	CDXS18LVJU	CDXS24LVJU
12,00	15,000	18,000	24,000
0.12	0.16	0.16	0.16
Ø 1/4	Ø 1/4	Ø 1/4	Ø 1/4
Ø 3/8	Ø 1/2	Ø 1/2	Ø 1/2
Ø 1-1/32	Ø 1-1/32	Ø 1-1/32	Ø 1-1/32

7% x 27⁹/₁₆ x 24⁷/₁₆7% x 35⁷/₁₆ x 24⁷/₁₆

FFQ12LVJU	FFQ15LVJU	FFQ18LVJU
12,000	15,000	18,000
14,000	17,500	21,500
Ø 1/4	Ø 1/4	Ø 1/4
Ø 3/8	Ø 1/2	Ø 1/2
Ø 1-1/32	Ø 1-1/32	Ø 1-1/32

11% x 22% x 22%

Controller is not included on the FFQ models.

BRC1E72 & BRC7E830 are compatible controllers for the FFQ's.

Wall-Mounted Ductless Heat Pump or Cooling Only



Nominal Tons		1.5 Tons	2.0 Tons
Indoor Model#		FAQ18PVJU	FAQ24PVJU
Outdoor Model# Cooling Only		RZR18PVJU	RZR24PVJU
Outdoor Model# Heat Pump		RZQ18PVJU9	RZQ24PVJU9
Cooling Capacity (Rated)	BTU/h	18,000	24,000
Heating Capacity (Rated)*	BTU/h	20,000	26,000
SEER / HSPF		18.6 / 8.7	17.6 / 9.1
EER		12.7	10.2
Power Supply		208/230V/1 Ph	208/230V/1 Ph
Liquid Piping Connections (O.D.)	in.	Ø 3/8	Ø 3/8
Gas Piping Connections (O.D.)	in.	Ø 5/8	Ø 5/8
Condensate Drain	in.	Ø 11/16	Ø 11/16
Dimensions (H x W x D)	in.	11 $\frac{1}{8}$ x 41 $\frac{1}{8}$ x 9	
Net Weight	lbs.	31	31
Max. Piping Length	ft.	164	164
Max. Piping Height	ft.	98	98
Indoor Dimensions (H x W x D)	in.	11 $\frac{1}{8}$ x 41 $\frac{1}{8}$ x 9	
Outdoor Dimensions (H x W x D)	in.	30 $\frac{5}{16}$ x 35 $\frac{7}{16}$ x 12 $\frac{1}{2}$	

*Available on Heat Pump models only

FTXS Series

SkyAir

Wall-Mounted Ductless Heat Pump or Cooling Only



Nominal Tons		2.5 Tons	3.0 Tons
Indoor Model#		FTXS30LVJU	FTXS36LVJU
Outdoor Model# Cooling Only		RKS30LVJU	RKS36LVJU
Outdoor Model# Heat Pump		RXS30LVJU	RXS36LVJU
Cooling Capacity (Rated)	BTU/h	30,000	36,000
Cooling Capacity (Min – Max)	BTU/h	10,200 – 30,000	10,200 – 36,000
Heating Capacity (Rated)*	BTU/h	34,800	38,000
Heating Capacity (Min – Max)*	BTU/h	10,200 – 34,000	10,200 – 38,000
SEER / HSPF		19.3 / 8.3	17.9 / 8.3
EER		10.71	8.37
Minimum Circuit Amps	A	19.5	19.5
Maximum Overcurrent Protection	A	20.0	20.0
Liquid Piping Connections O.D.)	in.	Ø 3/8	Ø 3/8
Gas Piping Connections (O.D.)	in.	Ø 5/8	Ø 5/8
Condensate Drain	in.	Ø 5/8	Ø 5/8
Max. Piping Length	ft.	98.4	98.4
Max. Piping Height	ft.	65.6	65.6
Indoor Dimensions (H x W x D)	in.	13 ³ / ₈ x 47 ³ / ₄ x 9 ⁷ / ₁₆	
Outdoor Dimensions (H x W x D)	in.	38 ¹⁵ / ₁₆ x 37 x 12 ³ / ₈	

*Available on Heat Pump models only

PRODUCT

SELLING & INSTALLATION TIPS

SPECIFICATIONS & ACCESSORIES

DESIGN

FBQ Series

DC Duct Heat Pump or Cooling Only

Nominal Tons		1.5 Tons
Indoor Model#		FBQ18PVJU
Outdoor Model# Cooling Only		RZR18PVJU
Outdoor Model# Heat Pump		RZQ18PVJU9
Cooling Capacity (Rated)	BTU/h	18,000
Heating Capacity (Rated)*	BTU/h	20,000
SEER / HSPF*		17.5 / 10.6
EER		14.1
Power Supply		208/230V/1 Ph
External Static Pressure	"W.G	Standard 0.40 (0.80 – 0.20)
Liquid Piping Connections O.D.)	in.	Ø 1/4
Gas Piping Connections (O.D.)	in.	Ø 1/2
Condensate Drain	in.	Ø 1-1/4
Max. Piping Length	ft.	164
Max. Piping Height	ft.	98
Indoor Dimensions (H x W x D)	in.	11 ¹³ / ₁₆ x 39 ³ / ₈ x 27 ⁹ / ₁₆
Outdoor Dimensions (H x W x D)	in.	30 ⁵ / ₁₆ x 35 ⁷ / ₁₆ x 12 ⁵ / ₈

*Available on Heat Pump models only



SkyAir

PRODUCT

2.0 Tons	2.5. Tons	3.0 Tons	3.5 Tons
FBQ24PVJU	FBQ30PVJU	FBQ36PVJU	FBQ42PVJU
RZR24PVJU	RZR30PVJU	RZR36PVJU	RZR42PVJU
RZQ24PVJU9	RZQ30PVJU	RZQ36PVJU9	RZQ42PVJU9
24,000	30,000	36,000	42,000
27,000	34,000	40,000	47,000
16.5 / 10.5	16.0 / 9.2	17.5 / 9.1	16.0 / 8.8
12.0	10.5	11.2	10.2
208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph

Standard 0.40 (0.80 - 0.20)

Ø 3/8	Ø 3/8	Ø 3/8	Ø 3/8
Ø 5/8	Ø 5/8	Ø 5/8	Ø 5/8
Ø 1-1/4	Ø 1-1/4	Ø 1-1/4	Ø 1-1/4
164	164	230	230
98	98	164	164

11¹³/₁₆ x 55⁵/₈ x 27⁹/₁₆

52¹⁵/₁₆ x 35⁷/₁₆ x 12³/₈

SELLING &
INSTALLATION
TIPS

SPECIFICATIONS
& ACCESSORIES

DESIGN

FCQ Series

Roundflow Ceiling Cassette Heat Pump or Cooling Only

Nominal Tons		1.5 Tons
Indoor Model#		FCQ18PAVJU
Outdoor Model# Cooling Only		RZR18PVJU
Outdoor Model# Heat Pump		RZQ18PVJU9
Cooling Capacity (Rated)	BTU/h	18,000
Heating Capacity (Rated)*	BTU/h	20,000
SEER / HSPF*		17.2 / 10.1
EER		13.9
Power Supply		208/230V/1 Ph
Liquid Piping Connections (O.D.)	in.	Ø 1/4
Gas Piping Connections (O.D.)	in.	Ø 1/2
Condensate Drain	in.	Ø 1-1/4
Max. Piping Length	ft.	164
Max. Piping Height	ft.	98
Indoor Dimensions (H x W x D)	in.	9 ^{11/16} x 33 ^{1/16} x 33 ^{1/16}
Outdoor Dimensions (H x W x D)	in.	30 ^{5/16} x 35 ^{7/16} x 12%

*Available on Heat Pump models only



SkyAir

PRODUCT

2.0 Tons	2.5. Tons	3.0 Tons	3.5 Tons
FCQ24PAVJU	FCQ30PAVJU	FCQ36PAVJU	FCQ42PAVJU
RZR24PVJU	RZR30PVJU	RZR36PVJU	RZR42PVJU
RZQ24PVJU9	RZQ30PVJU	RZQ36PVJU9	RZQ42PVJU9
24,000	30,000	36,000	42,000
27,000	34,000	40,000	47,000
16.8 / 9.7	15.8 / 9.7	17.5 / 8.4	16.0 / 8.5
12.0	10.2	11.2	10.2
208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph
Ø 3/8	Ø 3/8	Ø 3/8	Ø 3/8
Ø 5/8	Ø 5/8	Ø 5/8	Ø 5/8
Ø 1-1/4	Ø 1-1/4	Ø 1-1/4	Ø 1-1/4
164	164	230	230
98	98	164	164
		11 ⁵ / ₁₆ X 33 ¹ / ₁₆ X 33 ¹ / ₁₆	
		52 ¹⁵ / ₁₆ X 35 ⁷ / ₁₆ X 12%	

SELLING &
INSTALLATION
TIPS

SPECIFICATIONS
& ACCESSORIES

DESIGN

FHQ Series

Ceiling Suspended Ductless Heat Pump or Cooling Only

Nominal Tons		1.5 Tons
Indoor Model#		FHQ18PVJU
Outdoor Model# Cooling Only		RZR18PVJU
Outdoor Model# Heat Pump		RZQ18PVJU9
Cooling Capacity (Rated)	BTU/h	18,000
Heating Capacity (Rated)*	BTU/h	20,000
SEER / HSPF*		18.0 / 11.1
EER		14.0
Power Supply		208/230V/1 Ph
Liquid Piping Connections (O.D.)	in.	Ø 3/8
Gas Piping Connections (O.D.)	in.	Ø 5/8
Condensate Drain	in.	Ø 1
Max. Piping Length	ft.	164
Max. Piping Height	ft.	98
Indoor Dimensions (H x W x D)	in.	7 ¹¹ / ₁₆ x 62 ³ / ₈ x 26 ³ / ₄
Outdoor Dimensions (H x W x D)	in.	30 ⁵ / ₁₆ x 35 ⁷ / ₁₆ x 12 ³ / ₄

*Available on Heat Pump models only



SkyAir

PRODUCT

SELLING &
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DESIGN

2.0 Tons	2.5 Tons	3.0 Tons	3.5 Tons
FHQ24PVJU	FHQ30PVJU	FHQ36MVJU	FHQ42MVJU
RZR24PVJU	RZR30PVJU	RZR36PVJU	RZR42PVJU
RZQ24PVJU9	RZQ30PVJU	RZQ36PVJU9	RZQ42PVJU9
24,000	30,000	36,000	40,500
27,000	34,000	37,500	39,500
18.1 / 11.1	18.1 / 10.0	17.2 / 8.4	13.8 / 8.2
12.6	10.5	10.2	9.5
208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph
Ø 3/8	Ø 3/8	Ø 3/8	Ø 3/8
Ø 5/8	Ø 5/8	Ø 5/8	Ø 5/8
Ø 1	Ø 1	Ø 1	Ø 1
164	164	230	230
98	98	164	164
$7^{11}/_{16} \times 62\% \times 26\%$			
$30^{5}/_{16} \times 35^{7}/_{16} \times 12\%$		$52^{15}/_{16} \times 35^{7}/_{16} \times 12\%$	

FTQ Series

Inverter Ducted Heat Pump

Nominal Tons		1.5 Tons
Indoor Model#		FTQ18PBVJU
Outdoor Model#		RZQ18PVJU9
Cooling Capacity (Rated)	BTU/h	18,000
Cooling Capacity (Min – Max)	BTU/h	9,000 – 18,000
Heating Capacity (Rated)	BTU/h	20,000
Heating Capacity (Min – Max)	BTU/h	9,000 – 20,000
SEER / HSPF		20.0 / 12.0
COP / EER		4.0 / 14.5
Power Supply		208/230V/1 Ph
External Static Pressure	"W.G.	Up to 0.50
Liquid Piping Connections (O.D.)	in.	Ø 3/8
Gas Piping Connections (O.D.)	ft.	Ø 5/8
Condensate Drain	in.	Ø 1
Max. Piping Length	ft.	98.0
Max. Piping Height	ft.	98.0
Indoor Dimensions (H x W x D)	in.	48 $\frac{1}{2}$ x 22 x 26
Outdoor Dimensions (H x W x D)	in.	30 $\frac{5}{16}$ x 35 $\frac{7}{16}$ x 12 $\frac{3}{8}$



SkyAir

PRODUCT

2.0 Tons	2.5. Tons	3.0 Tons	3.5 Tons
FTQ24PBVJU	FTQ30PBVJU	FTQ36PBVJU	FTQ42PBVJU
RZQ24PVJU9	RZQ30PVJU9	RZQ36PVJU9	RZQ42PVJU9
24,000	30,000	36,000	40,000
9,000 – 24,000	12,000 – 30,000	12,000 – 36,000	12,000 – 42,000
27,000	34,000	40,000	47,000
9,000 – 27,000	12,000 – 34,000	12,000 – 40,000	12,000 – 47,000
19.0 / 11.5	19.5 / 10.0	18.0 / 9.5	17.0 / 9.0
3.8 / 13.5	3.7 / 19.5	3.6 / 12.5	3.2 / 12.0
208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph	208/230V/1 Ph
Up to 0.50			
Ø 3/8	Ø 3/8	Ø 3/8	Ø 3/8
Ø 5/8	Ø 5/8	Ø 5/8	Ø 5/8
Ø 1	Ø 1	Ø 1	Ø 1
98.0		230.0	
98.0		164.0	
	58¼ x 22 x 26		
	52 ¹⁵ / ₁₆ x 35 ⁷ / ₁₆ x 12 ⁵ / ₈		

SELLING &
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& ACCESSORIES

DESIGN

Accessories



Line Sets

Model Number	Size (in.)	Length(ft.)	Insulation (in.)
LS14381210DMSF	1/4 x 3/8	10	1/2
LS14381215DMSF	1/4 x 3/8	15	1/2
LS14381230DMSF	1/4 x 3/8	30	1/2
LS14381250DMSF	1/4 x 3/8	50	1/2
LS14381265DMSF	1/4 x 3/8	65	1/2
LS143812100DMSF	1/4 x 3/8	100	1/2
LS14121210DMSF	1/4 x 1/2	10	1/2
LS14121215DMSF	1/4 x 1/2	15	1/2
LS14121230DMSF	1/4 x 1/2	30	1/2
LS14121250DMSF	1/4 x 1/2	50	1/2
LS14121265DMSF	1/4 x 1/2	65	1/2
LS141212100DMSF	1/4 x 1/2	100	1/2
LS14581210DMSF	1/4 x 5/8	10	1/2
LS14581215DMSF	1/4 x 5/8	15	1/2
LS14581230DMSF	1/4 x 5/8	30	1/2
LS14581250DMSF	1/4 x 5/8	50	1/2
LS14581265DMSF	1/4 x 5/8	65	1/2
LS145812100DMSF	1/4 x 5/8	100	1/2

Item

Item Description

Controller Options

BRC7E830	Wireless Remote Control Kit
BRC944B2-A08	Wired Remote Controller - Kit Reference - see next 3 items
BRC944B2	Wired Controller - Part 1 of BRC944B2-A08 Kit
BRCW901A08	Wired Controller Cord - Part 2 of BRC944B2-A08 Kit
KRP980B1	Interface Adaptor for BRC944B2-A08 Kit - Part 3 (Required for the 09.12 KEVJU)
DACA- BRCW901P10	Remote Controller Cable, Plenum Rated, 10ft
DACA- BRCW901P25	Remote Controller Cable, Plenum Rated, 25ft
DACA-TS1-1	Daikin ENVi Intelligent Thermostat Kit

Filter Replacements

KAF918A44	Air purifying filter with photocatalytic deodorizing filter without frame
KAF952B42	Air purifying filter with photocatalytic deodorizing filter without frame
KAF974B42S	Titanium Apatite Photocatalytic Air Purifying Filter Set

Accessories (continued)

Item #	Item Description
Operating Range Extension	
KEH041A41	Drain Pan Heater RXS09_12L & D(A)
KEH041A42	Drain Pan Heater RXS15_18L
KEH041A43	Drain Pan Heater RXS24L & 3_4MXS_J(G)
KEH041A44	Drain Pan Heater RXS30_36L
KEH041A45	Drain Pan Heater RXG09_15H
KEH041A46	Drain Pan Heater RXN(S)09_12KE(J)
KEH041A47	Drain Pan Heater RXN15_24KE
KEH041A48	Drain Pan Heater RXS15_24D & 2MXS_G
KEH041A49	Drain Pan Heater RXS30_36H
KPW038A4	Low ambient wind baffle / Air Direction Grille
KPW5E80	Low ambient wind baffle (1 per 18-30 / 2 per 36-42, PVJU)
KPW937E4	Low ambient wind baffle / Air Direction Grille - (KPW937C4)
KPW945A4	Low ambient wind baffle (RXS Models) Air Direction Grille (RXG Models)
Condensate Pumps & Drain Accessories	
DACA-CP3-1	OEM Mini-Pump Kit - 5.0 GPH Capacity 230v - Replaces DACA-CP1-1 & CP2-1
DACA-CFS-1	Safe-T- Switch SS610E for DMSS
MP3000U11	120V 5GPH Univ Mini Split Pump
MP3000U23	230V 5GPH Univ Mini Split Pump
DP1000U11	Delta Pack 90 Degree Duct Elbow Kit W/120V 5GPH Monoblock Pump
DP1000U23	Delta Pack 90 Degree Duct Elbow Kit W/230V 5GPH Monoblock Pump
83003	Drain Hose, 16mm (5/8") 20' coil - model DH-16S
83180	5/8" Waterless mini-trap for minisplits
Wall Mount Brackets	
DACA-WB-3	Heavy Duty Wall Bracket - 20-1/2 x 15-3/4 - 440lb cap
DACA-WB-2	Wall Brackets Kit W/O Bar - 23-5/8 x 16.5 - 330lb cap
DACA-WB-1	Adj Wall Bracket W/Support Bar - 17-3/4 x 16-1/2 x 31-1/2 - 242lb cap

Accessories (continued)

Item #	Item Description
Mini-Split Pads - Plastic Pad	
EL1838-3	Elite Plastic Pad 18x38x3
EL2436-3	Elite Plastic Pad 24x36x3
Mini-Split Pads - Ultralite - Concrete Based Pad	
UC1636-2	Ultralite Pad 16x36x2
UC2436-2	Ultralite Pad 24x36x2
UC2436-3	Ultralite Pad 16x36x3
UC2436-3	Ultralite Pad 24x36x3
Mini-Split Pads - Florida Market	
UC1636-2	N FL Hurricane Pad 18x40x4 - 150MPH Zone
UC2436-2	N FL Hurricane Pad 24x36x4 - 150MPH Zone
UC2436-3	S FL Hurricane Pad 18x40x4 - 175MPH Zone
UC2436-3	S FL Hurricane Pad 24x36x4 - 175MPH Zone
Installation Tools	
DACA-FSG-1	Flare Size Gauge
DACA-RBTC-1	Replacement Tubing Cutter Blade
TLTWSM	Torque Wrench Kit w/Lever -METRIC- Replaces All DACA-TQW SERIES INDIV TORQUE WRENCHES
TLTWSAE	Torque Wrench Kit w/Lever - SAE
TLB410AD	Daikin Custom Tool Kit - 22Pcs + Tool Bag
MT2H7P5	R410a Gauges w/ball vlv - Replaces - DACA-R410GS-1
FT800FN	Flaring Tool - Clutch Type Eccentric - Replaces - DACA-CFK-1
TLDB	Deburring Tool - Replaces - DACA-DT-1
TCT274	HD Tubing Cutter - 1/8 to 1-3/8 - Replaces DACA-TC-1
AD87	Straight Adapter 5/16 flare to a 1/4 flare - Replaces - DACA-SVA-1
AD87S	Angled Adapter 55deg 5/16 flare to 1/4 flare - Replaces - DACA-SVA-1
TLVCS410	Valve Core Remover / Installer Tool w/Side Port
LSFNUT14	Lineset 45Deg Flare Nut - 1/4 - Pkg 10
LSFNUT38	Lineset 45Deg Flare Nut - 3/8 - Pkg 10
LSFNUT12	Lineset 45Deg Flare Nut - 1/2 - Pkg 10
LSFNUT58	Lineset 45Deg Flare Nut - 5/8 - Pkg 10



DESIGN



Compatibility Matrix

DAIKIN DUCTLESS SYSTEM COMPATIBILITY MATRIX		Outdoor Unit																																																			
		Single Split Systems																																																			
		RXN09KEVJU5	RXN12KEVJU5	RXN15KEVJU5	RXN18KEVJU5	RXN24KEVJU5	RKN09KEVJU5	RKN12KEVJU5	RKN15KEVJU5	RKN18KEVJU5	RKN24KEVJU5																																										
Indoor Unit	Split Systems (Single & Multi)	FTXN09KEVJU5	•					•																																													
		FTXN12KEVJU5		•							•																																										
		FTXN15KVJU			•								•																																								
		FTXN18KVJU				•																																															
		FTXN24KVJU								•																																											
		FTXS09LVJU																																																			
		FTXS12LVJU																																																			
		FTXS15LVJU																																																			
		FTXS18LVJU																																																			
		FTXS24LVJU																																																			
		FTXG09HVJU																																																			
		FTXG12HVJU																																																			
		FTXG15HVJU																																																			
		FDXS09LVJU																																																			
	FDXS12LVJU																																																				
	Split Systems (Multi Only)	CTXS07LVJU																																																			
		CTXS09HVJU																																																			
		CTXS12HVJU																																																			
		CDXS15LVJU																																																			
		CDXS18LVJU																																																			
		CDXS24LVJU																																																			
		FFQ09LVJU																																																			
		FFQ12LVJU																																																			
		FFQ15LVJU																																																			
		FFQ18LVJU																																																			
		Wind Baffle	KPW038A4		•	•								•		•																																					
KPW5E80																																																					
KPW937C4						•	•	•																																													
KPW945A4																																																					

Ductless Split Systems

Outdoor Unit																				
Single Split Systems								Multi Split Systems				Controls								
RXG09LVJU																				
RXG12LVJU																				
RXG15LVJU																				
RXS09LVJU																				
RXS12LVJU																				
RXS15LVJU																				
RXS18LVJU																				
RXS24LVJU																				
2MXS18GVJU																				
3MXS24JVJU																				
4MXS32GVJU																				
RMXS48LVJU																				
BRC1E72																				
BRC7E830																				
BRC944B2																				
DACA-TS1-1 Daikin ENVi																				

PRODUCT

SELLING &
INSTALLATION
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& ACCESSORIES

DESIGN

Multi-Zone Combination Table

2MXS18	3MXS24		4MXS32		
2 Zone	2 Zone	3 Zone	2 Zone	3 Zone	4 Zone
07+07	07+07	07+07+07	07+07	07+07+07	07+07+07+07
07+09	07+09	07+07+09	07+09	07+07+09	07+07+07+09
09+09	07+12	07+07+12	07+12	07+07+12	07+07+07+12
	07+15	07+07+15	07+15	07+07+15	07+07+07+15
	07+18	07+07+18	07+18	07+07+18	07+07+07+18
	09+09	07+09+09	09+09	07+09+09	07+07+09+09
	09+12	07+09+12	09+12	07+09+12	07+07+09+12
	09+15	07+09+15	09+15	07+09+15	07+07+09+15
	09+18	07+09+18	09+18	07+09+18	07+07+09+18
	12+12	07+12+12	12+12	07+12+12	07+07+12+12
	12+15	07+12+15	12+15	07+12+15	07+07+12+15
	12+18	09+09+09	12+18	07+12+18	07+07+12+18
	15+15	09+09+12	15+15	07+15+15	07+07+09+09
	15+18	09+09+15	15+18	07+15+18	07+09+09+09
	18+18	09+09+18	18+18	07+18+18	07+09+09+12
		09+12+12		09+09+09	07+09+09+15
		09+12+15		09+09+12	07+09+09+18
		09+12+18		09+09+15	07+09+12+12
		09+15+15		09+09+18	07+09+12+15
		12+12+12		09+12+12	09+12+12+12
		12+12+15		09+12+15	09+09+09+09
				09+12+18	09+09+09+12
				09+15+15	09+09+09+15
				09+15+18	09+09+12+12
				09+18+18	09+09+12+15
				12+12+12	09+12+12+12
				12+12+15	
Max. Connected Indoor Unit Capacity permitted is 18kBTU/h.				12+12+18	
				12+15+15	
				12+15+18	
	Maximum Connected Indoor Unit Capacity permitted is 39kBTU/h.		Maximum Connected Indoor Unit Capacity permitted is 45kBTU/h.		

Compatibility Matrix

SkyAir

DAIKIN DUCTLESS SYSTEM COMPATIBILITY MATRIX		Outdoor Unit										
		Outdoor Unit				Controls						
		RXS_LVJU	RZQ_PVJU(9)	RKS_LVJU	RZR_PVJU	BRC1E72	BRC2A71	BRC4C82	BRC7E83	BRC944	BRCE818	DACA-TS1-1
Indoor Unit	FTXS_LVJU	•		•						•		•
	FAQ_PVJU		•		•	•	•				•	
	FBQ_PVJU		•		•	•	•	•				
	FCQ_PAVJU		•		•	•	•					
	FHQ_MVJU		•		•	•			•			
	FHQ_PVJU		•		•	•	•		•			
	FHQ_PBVJU		•			•						
Wind Baffle	KPW5E112	•		•								
	KPW5E80		•		•							

PRODUCT

SELLING & INSTALLATION TIPS

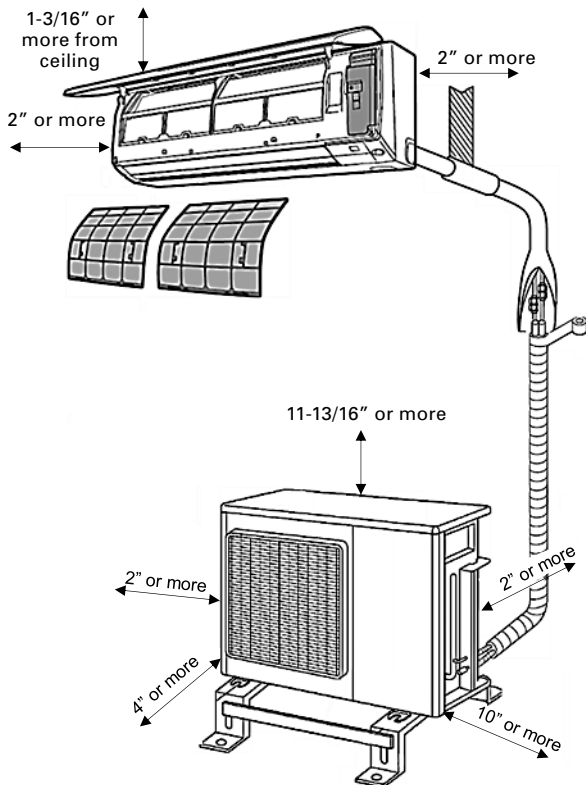
SPECIFICATIONS & ACCESSORIES

DESIGN

System Clearances

Ductless Split Systems

The **minimum** required system clearances for split systems are shown below. Refer to installation manual for installation patterns and exact minimum clearances by model.

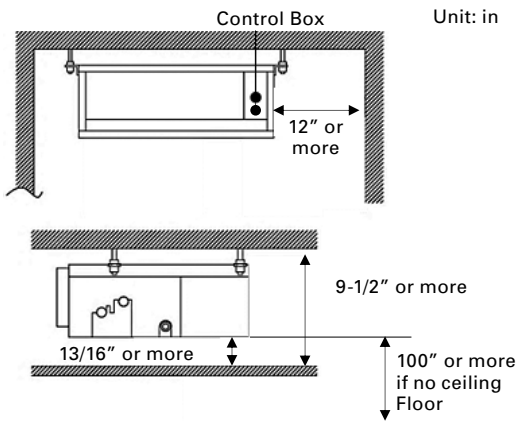


System Clearances

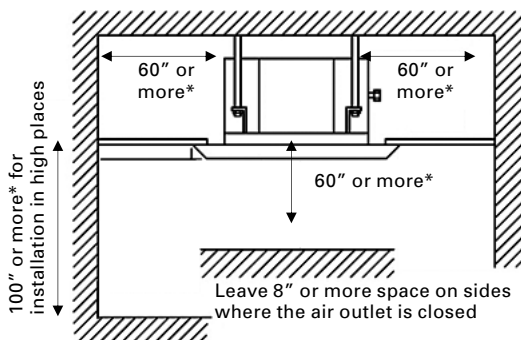
Ductless Split Systems

Indoor Units

Slim Duct Unit



2' X 2' Ceiling Cassette

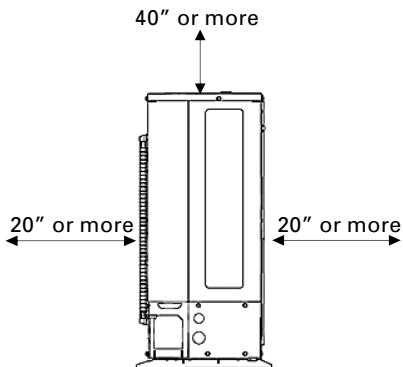
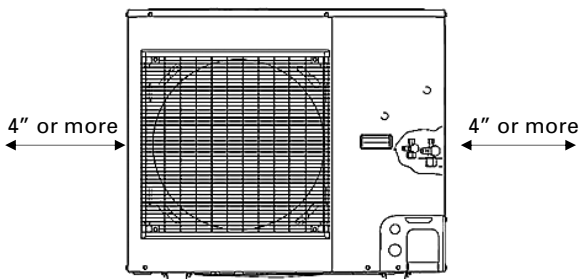


System Clearances

SkyAir

Outdoor Units

The **minimum** required system clearances for SkyAir outdoor units are shown below. Refer to installation manual for installation patterns and exact minimum clearances by model.



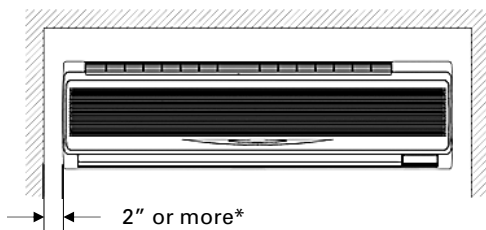
System Clearances

SkyAir

PRODUCT

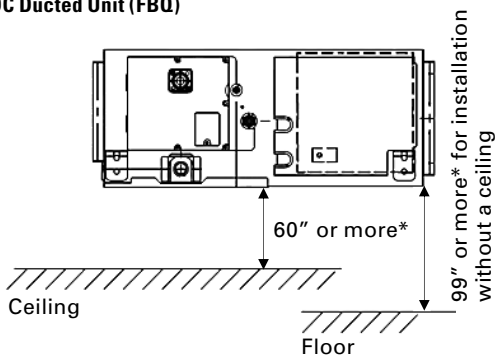
Indoor Units

Wall Mounted Unit (FAQ)



SELLING &
INSTALLATION
TIPS

DC Ducted Unit (FBQ)



SPECIFICATIONS
& ACCESSORIES

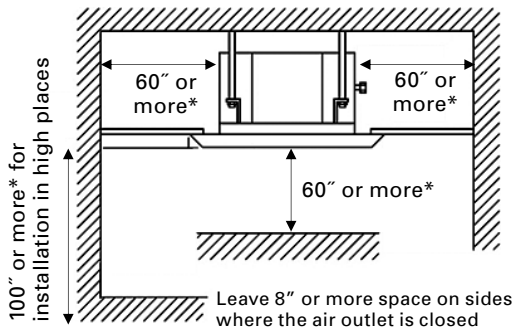
DESIGN

System Clearances

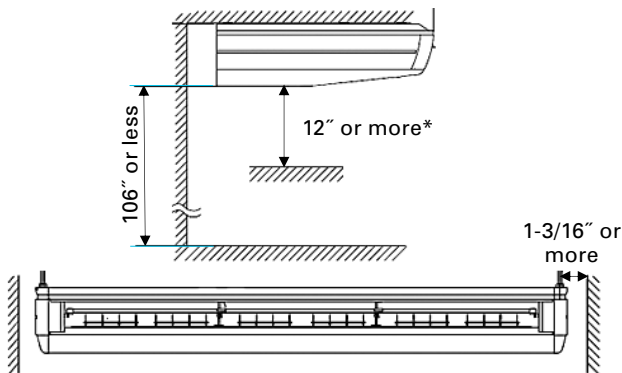
SkyAir

Indoor Units

3' X 3' Ceiling Cassette (FCQ)



Ceiling Suspended (FHQ)



System Clearances

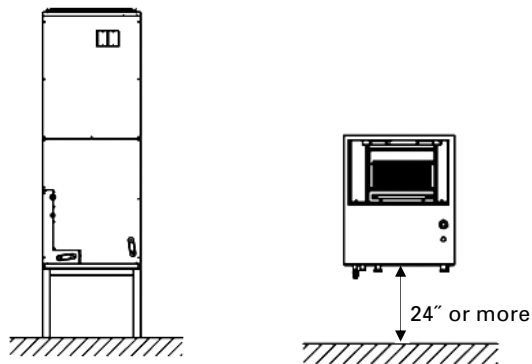
SkyAir

PRODUCT

Indoor Units

Inverter Ducted (FTQ)

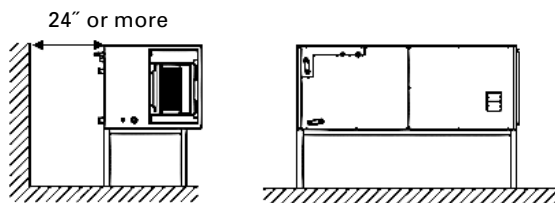
Vertical Installation



SELLING &
INSTALLATION
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SPECIFICATIONS
& ACCESSORIES

Horizontal Installation



DESIGN

Electrical Requirements

Ductless Split Systems

Indoor Unit	Outdoor Unit	Minimum Circuit Amps (A)	Maximum Overcurrent Protection (A)
FTXN09KEVJU(5)	RXN09KEVJU(5)	4.8	15.0
FTXN12KEVJU(5)	RXN12KEVJU(5)	7.0	15.0
FTXN15KVJU	RXN15KEVJU(5)	15.5	20.0
FTXN18KVJU	RXN18KEVJU(5)	15.5	20.0
FTXN24KVJU	RXN24KEVJU(5)	15.5	20.0
FTXN09KEVJU	RKN09KEVJU(5)	4.8	15.0
FTXN12KEVJU	RKN12KEVJU(5)	7.0	15.0
FTXN15KVJU	RKN15KEVJU(5)	15.5	20.0
FTXN18KVJU	RKN18KEVJU(5)	15.5	20.0
FTXN24KVJU	RKN24KEVJU(5)	15.5	20.0
FTXS09LVJU	RXS09LVJU(5)	8.0	15.0
FTXS12LVJU	RXS12LVJU(5)	8.8	15.0
FTXS15LVJU	RXS15LVJU(5)	13.8	20.0
FTXS18LVJU	RXS18LVJU(5)	13.8	20.0
FTXS24LVJU	RXS24LVJU(5)	17.5	20.0
FDXS09LVJU	RXS09LVJU(5)	8.0	15.0
FDXS12LVJU	RXS12LVJU(5)	8.8	15.0
FTXG09HVJU	RXG09HVJU(5)	14.5	15.0
FTXG12HVJU	RXG12HVJU(5)	14.5	15.0
FTXG15HVJU	RXG15HVJU(5)	14.5	15.0
	2MXS18GVJU(5)	11.1	20.0
	3MXS24JVJU(5)	17.8	20.0
	4MXS32GVJU(5)	18.0	20.0
	RMXS48LVJU(5)	27.0	30.0
BPMKS048A2U		0.1	15.0
BPMKS049A3U		0.1	15.0

Electrical Requirements

SkyAir

PRODUCT

Outdoor Unit			
Heat Pump	Cooling Only	MCA (A)	MOCP (A)
RXS30LVJU	RKS30LVJU	19.5	20
RXS36LVJU	RKS36LVJU	19.5	20
RZQ18PVJU9	RZR18PVJU	16.5	20
RZQ24PVJU9	RZR24PVJU	16.5	20
RZQ30PVJU	RZR30PVJU	16.5	20
RZQ30PVJU9		27	30
RZQ36PVJU9	RZR36PVJU	27	30
RZQ42PVJU9	RZR42PVJU	27	30

SELLING & INSTALLATION TIPS

Indoor Unit		
Model Number	MCA (A)	MOCP (A)
FAQ18PVJU	0.4	15
FAQ24PVJU	0.6	15
FTXS30LVJU	Powered from OU	
FTXS36LVJU	Powered from OU	
FBQ18PVJU	1.6	15
FBQ24PVJU	1.8	15
FBQ30PVJU	2.3	15
FBQ36PVJU	2.9	15
FBQ42PVJU	3.4	15
FCQ18PAVJU	0.4	15
FCQ24PAVJU	0.5	15
FCQ30PAVJU	0.6	15
FCQ36PAVJU	1.4	15
FCQ42PAVJU	1.5	15
FHQ18PVJU	1.3	15
FHQ24PVJU	1.3	15
FHQ30PVJU	1.3	15
FHQ36MVJU	1.4	15
FHQ42MVJU	1.4	15
FTQ18PBVJU	1.5	15
FTQ24PBVJU	1.6	15
FTQ30PBVJU	2.3	15
FTQ36PBVJU	2.8	15
FTQ42PBVJU	3.6	15

SPECIFICATIONS & ACCESSORIES

DESIGN

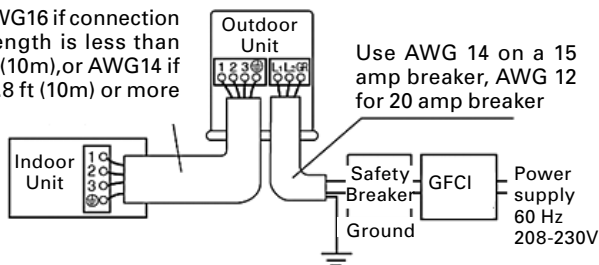
Single-Zone Split Systems (RKN, RXN, RXS, RXG)

Wiring Procedure

Do not turn on the safety breaker until all work is completed.

1. Strip the insulation from the wire (3/4inch (20mm)).
2. Connect the connection wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. We recommend a flathead screwdriver be used.

Use AWG16 if connection wire length is less than 32.8 ft (10m), or AWG14 if it is 32.8 ft (10m) or more

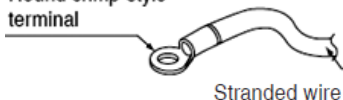


For stranded wires, make sure to install the round crimp-style terminals on the tip.

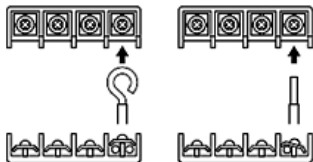
Place the round crimp-style terminals on the wires up to the covered part and secure.

When connecting the connection wires to the terminal block using a single core wire, be sure to perform curling. Problems with the work may cause heat and fires.

Round crimp-style terminal



Stranded wire



○ Correct X Wrong

Stripping wire at terminal block

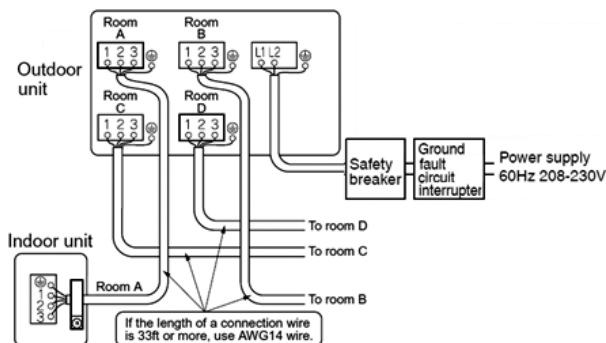
Wiring

Multi-Zone

Multi-Zone Split Systems (2MXS, 3MXS, 4MXS)

Wiring Procedure

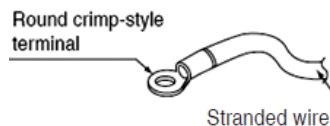
1. Strip the insulation from the wire (3/4").
2. Connect the connection wires between the indoor and outdoor units **so that the terminal numbers match**. Tighten the terminal screws securely. We recommend a flathead screwdriver.
3. Be sure to match the symbols for wiring and piping.



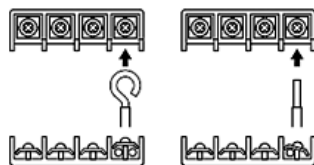
Use AWG 16 or AWG 14 wire for the power supply and interconnecting wires.

In case using stranded wires is unavoidable, make sure to install the round crimp-style terminals on the tip.

Place the round crimp-style terminals on the wires up to the covered part and secure.



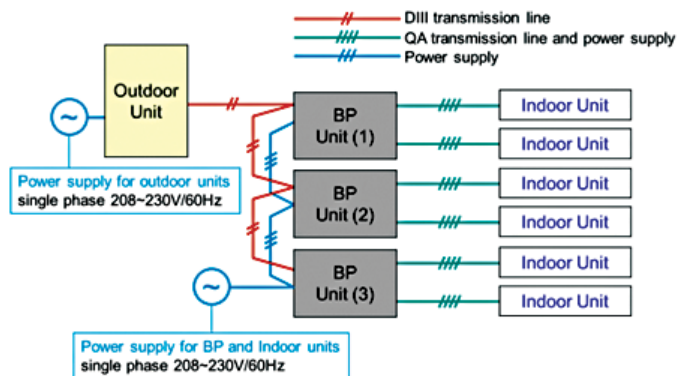
Perform curling when using a single core wire.



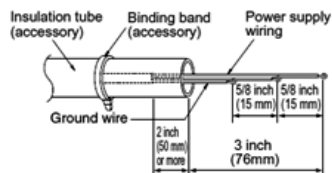
○ Correct X Wrong
Stripping wire at terminal block

8-Zone Multi-Split System

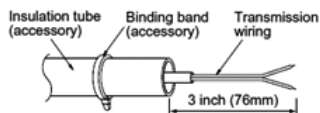
The outdoor unit and BP units operate from separate 208/230V single-phase power supplies. Indoor units are powered from the BP unit and wired as Daikin's current 4 wire single split systems reducing the wiring size and easing installation.



Power Supply Wiring



Transmission Wiring



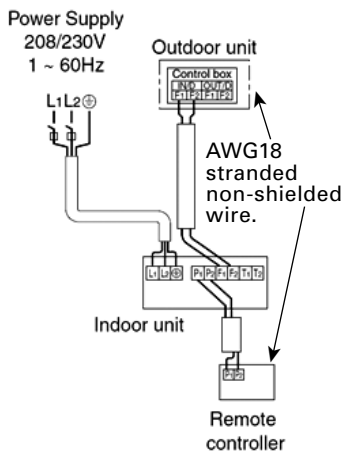
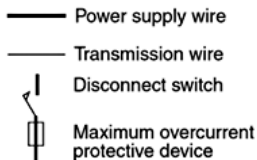
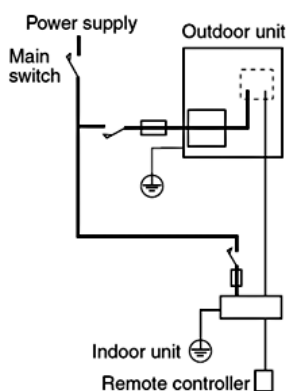
Refer to the installation manual for more detailed instructions.

Wiring

SkyAir

SkyAir RZQ, RZR Systems

Complete System Example



*Refer to each system Installation Manual for detailed wiring instructions.

PRODUCT

SELLING & INSTALLATION TIPS

SPECIFICATIONS & ACCESSORIES

DESIGN

Piping Lengths

Ductless Split Systems

Outdoor Unit	Min Length (ft)	Max Length (ft)	Max Height (ft)	Chargeless* (ft)
RKN, RXN, RXS				
9 MBH	4.92	65.6	49.2	32.8
12 MBH	4.92	65.6	49.2	32.8
15 MBH	4.92	98.4	65.6	32.9
18 MBH	4.92	98.4	65.6	32.9
24 MBH	4.92	98.4	65.6	32.9

Additional refrigerant required for refrigerant pipe exceeding 32.8 ft. Charge additional refrigerant at **0.22 oz/ft.**

RXG				
9 MBH	4.92	32	26	32
12 MBH	4.92	32	26	32
15 MBH	4.92	32	26	32

MXS				
2MXS18GVJU	4.92	164	49	98.4
3MXS24JVJU	4.92	230	49	131.6
4MXS32GVJU	4.92	230	49	131.6
RMXS48LVJU**	16.9	442	98	8.8 lbs

Additional refrigerant required for refrigerant pipe exceeding the chargeless amount listed above. Charge additional refrigerant at **0.22 oz/ft.** Refer to the installation manual for piping rules for the RMXS48LVJU**.

*Chargeless piping is the length of refrigerant piping between an indoor and outdoor unit that is pre-charged with refrigerant. Refer to the installation manual if installation requires longer piping length.

Piping Lengths

SkyAir

PRODUCT

Indoor Unit	Max Length (ft)	Max Height (ft)	Factory Charge (lbs)
-------------	-----------------	-----------------	----------------------

FTXS & RXS_RKS

30 MBH	98.4	65.6	32 ft. Chargeless
36 MBH	98.4	65.6	32 ft. Chargeless

Additional refrigerant required for refrigerant pipe exceeding 32.8 ft. Charge additional refrigerant at **0.54 oz/ft.**

FAQ, FBQ, FCQ, FHQ & RZQ_RZR

18 MBH	164	98	5.1
24 MBH	164	98	5.1
30 MBH	164	98	5.1
36 MBH	164	98	5.1
42 MBH	164	98	5.1

Additional refrigerant required for refrigerant pipe exceeding 5.1 lbs. Charge additional refrigerant at

liquid piping length (ft) x 0.36

FTQ & RZQ

18 MBH	164	98	5.1
24 MBH	164	98	5.1
30 MBH	164	98	5.1
36 MBH	164	98	5.1
42 MBH	164	98	5.1

Additional refrigerant required for refrigerant pipe exceeding 5.1 lbs. Charge additional refrigerant at

liquid piping length (ft) x 0.36 + 1.54

*Chargeless piping is the length of refrigerant piping between an indoor and outdoor unit that is pre-charged with refrigerant. Refer to the installation manual if installation requires longer piping length.

SELLING & INSTALLATION TIPS

SPECIFICATIONS & ACCESSORIES

DESIGN

Piping Sizes

Ductless Split Systems

Indoor Unit	Outdoor Unit	Liquid (in)	Gas (in)
FTXN09KEVJU	RXN09KEVJU	Ø 1/4	Ø 3/8
FTXN12KEVJU	RXN12KEVJU	Ø 1/4	Ø 3/8
FTXN15KVJU	RXN15KEVJU	Ø 1/4	Ø 1/2
FTXN18KVJU	RXN18KEVJU	Ø 1/4	Ø 1/2
FTXN24KVJU	RXN24KEVJU	Ø 1/4	Ø 1/2
FTXN09KEVJU	RKN09KEVJU	Ø 1/4	Ø 3/8
FTXN12KEVJU	RKN12KEVJU	Ø 1/4	Ø 3/8
FTXN15KVJU	RKN15KEVJU	Ø 1/4	Ø 1/2
FTXN18KVJU	RKN18KEVJU	Ø 1/4	Ø 1/2
FTXN24KVJU	RKN24KEVJU	Ø 1/4	Ø 1/2
FTXS09LVJU	RXS09LVJU	Ø 1/4	Ø 3/8
FTXS12LVJU	RXS12LVJU	Ø 1/4	Ø 3/8
FTXS15LVJU	RXS15LVJU	Ø 1/4	Ø 1/2
FTXS18LVJU	RXS18LVJU	Ø 1/4	Ø 1/2
FTXS24LVJU	RXS18LVJU	Ø 1/4	Ø 5/8
FDXS09LVJU	RXS09LVJU	Ø 1/4	Ø 3/8
FDXS12LVJU	RXS12LVJU	Ø 1/4	Ø 3/8
FTXG09HVJU	RXG09HVJU	Ø 1/4	Ø 3/8
FTXG12HVJU	RXG12HVJU	Ø 1/4	Ø 3/8
FTXG15HVJU	RXG15HVJU	Ø 1/4	Ø 3/8
	2MXS18GVJU	Ø 1/4 (2)	Ø 3/8 (2)
	3MXS24JVJU	Ø 1/4 (3)	Ø 3/8 (1) Ø 1/2 (1) Ø 5/8 (1)
	4MXS32GVJU	Ø 1/4 (4)	Ø 3/8 (1) Ø 1/2 (1) Ø 5/8 (2)
	RMXS48LVJU	Ø 3/8	Ø 3/4

Ductless Piping Sizes

SkyAir

PRODUCT

Outdoor Unit			
Heat Pump	Cooling Only	Liquid (in)	Gas (in)
RXS	RKS	Ø 3/8	Ø 5/8
RZQ	RZR	Ø 3/8	Ø 5/8

Model Number	Indoor Unit	
	Liquid (in)	Gas (in)
FAQ18PVJU*	Ø 3/8	Ø 5/8
FAQ24PVJU	Ø 3/8	Ø 5/8
FTXS30LVJU	Ø 3/8	Ø 5/8
FTXS36LVJU	Ø 3/8	Ø 5/8
FBQ18PVJU*	Ø 1/4	Ø 1/2
FBQ24PVJU	Ø 3/8	Ø 5/8
FBQ30PVJU	Ø 3/8	Ø 5/8
FBQ36PVJU	Ø 3/8	Ø 5/8
FBQ42PVJU	Ø 3/8	Ø 5/8
FCQ18PAVJU*	Ø 1/4	Ø 1/2
FCQ24PAVJU	Ø 3/8	Ø 5/8
FCQ30PAVJU	Ø 3/8	Ø 5/8
FCQ36PAVJU	Ø 3/8	Ø 5/8
FCQ42PAVJU	Ø 3/8	Ø 5/8
FHQ18PVJU	Ø 3/8	Ø 5/8
FHQ24PVJU	Ø 3/8	Ø 5/8
FHQ30PVJU	Ø 3/8	Ø 5/8
FHQ36MVJU	Ø 3/8	Ø 5/8
FHQ42MVJU	Ø 3/8	Ø 5/8
FTQ18PBVJU	Ø 3/8	Ø 5/8
FTQ24PBVJU	Ø 3/8	Ø 5/8
FTQ30PBVJU	Ø 3/8	Ø 5/8
FTQ36PBVJU	Ø 3/8	Ø 5/8
FTQ42PBVJU	Ø 3/8	Ø 5/8

*See service bulletin for additional details

SELLING &
INSTALLATION
TIPS

SPECIFICATIONS
& ACCESSORIES

DESIGN

System Layout

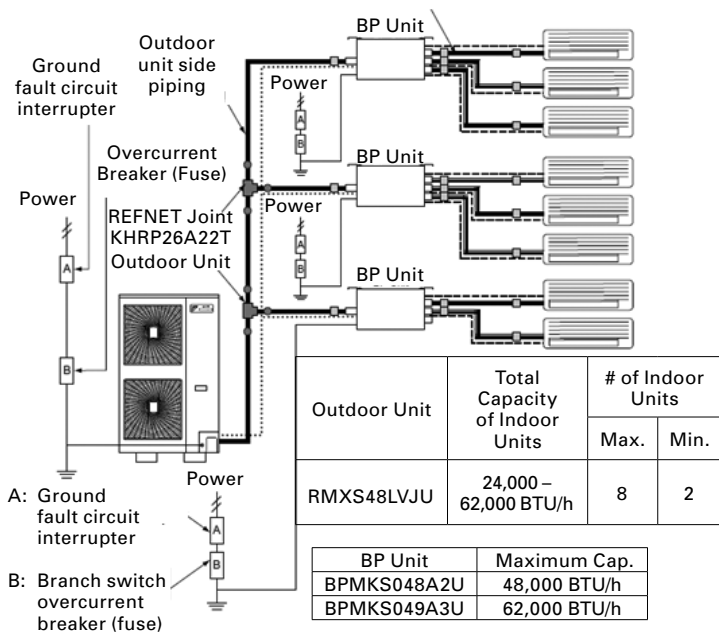
8-Zone Multi

BP Unit model

For 3 rooms: BPMKS049A3U

For 2 rooms: BPMKS048A2U

Indoor unit side piping



- Power supply line (3 wires)
(60 Hz 208/230V)
- Transmission line (2 wires)
- - - - - Power supply and transmission line (4 wires)

- ==== Piping
- Brazing connection
- Flare connection

Piping Requirements			
Maximum allowable length	Between outdoor and BP units	Total piping length	Pipe length between outdoor and BP units \leq 180 ft
	Between BP and IU	Total piping length	Piping length between BP and indoor units: 262ft
	Between BP and IU	1 room length	Piping length between BP and indoor unit \leq 49 ft
Allowable height	Between outdoor and and IU	Difference in height	Difference in height between outdoor and indoor units \leq 98 ft
	Between outdoor and BP units	Difference in height	Difference in height between outdoor and indoor units \leq 98 ft
	Between BP and BP units	Difference in height	Difference in height between BP and BP units \leq 49 ft
	Between IU and IU	Difference in height	Difference in height between indoor and indoor units \leq 49 ft
Minimum allowable length			Pipe length between outdoor unit and first refrigerant branch kit (REFNET joint) \geq 16.4 ft
Allowable length after the branch			Less than 131 ft from first refrigerant branch kit (REFNET joint) to indoor unit
Refrigerant branch kit selection refrigerant branch kits can only be used with R410A			Refrigerant branch kit (refnet joint) name: KHRP26A22T
Pipe size selection Outer diameter (gas x liquid)			Between outdoor unit and first refrigerant branch kit: 3/4 x 3/8
			Total connected indoor capacity >17000 BTU: 5/8 x 3/8
How to calculate the additional refrigerant to be charged. Additional refrigerant to be charged R (lb. /kg). R should be rounded off in units of 0.1 lb. (0.1kg).			(Total length (ft / m) of liquid piping size at 3/8 inch) x 0.036 lb./ft + (Total length (ft / m) of liquid piping size at 1/4 inch) x 0.015 lb./ft

COOLING

SYSTEM	Indoor Intake Air Temperature (MINIMUM – MAXIMUM)	Outdoor Air Temperature (MINIMUM – MAXIMUM)
KE Series RXN_KE & RKN_KE	57°F WB (14°C WB), 73°F WB (23°C WB)	50°F DB (10°C DB), 115°F DB (46°C DB) 14°F DB (-10°C DB), 115°F DB (46°C DB) ¹ 0°F DB (-17.8°C DB), 115°F DB (46°C DB) ²
LV Series RXS_LV	57°F WB (14°C WB), 73°F WB (23°C WB)	50°F DB (10°C DB), 115°F DB (46°C DB) 14°F DB (-10°C DB), 115°F DB (46°C DB) ¹ 0°F DB (-17.8°C DB), 115°F DB (46°C DB) ²
Quaternity RXG_H)	59°F WB (15°C WB), 73°F WB (23°C WB)	14°F DB (-10°C DB), 109°F DB (42.8°C DB)
MXS	57°F WB (14°C WB), 73°F WB (23°C WB)	14°F DB (-10°C DB), 115°F DB (46°C DB)
RMXS	57°F WB (14°C WB), 73°F WB (23°C WB)	23°F DB (-5°C DB), 115°F DB (46°C DB)

HEATING

SYSTEM	Indoor Intake Air Temperature (MINIMUM – MAXIMUM)	Outdoor Air Temperature (MINIMUM – MAXIMUM)
KE Series RXN_KE & RKN_KE	50°F DB (10°C DB), 86°F DB (30°C DB)	5°F DB (-15°C DB), 64°F WB (18°C WB)
LV Series RXS_LV	50°F DB (10°C DB), 86°F DB (30°C DB)	5°F DB (-15°C DB), 64°F WB (18°C WB) 0°F DB (-17.8°C DB), 64°F WB (18°C WB) ²
Quaternity RXG_H)	50°F DB (10°C DB), 86°F DB (30°C DB)	-4°F DB (-20°C DB), 64°F WB (18°C WB)
MXS	57°F WB (14°C WB), 73°F WB (23°C WB)	5°F DB (-15°C DB), 60°F WB (15.5°C WB)
RMXS	57°F WB (14°C WB), 73°F WB (23°C WB)	5°F DB (-15°C DB), 60°F WB (15.5°C WB)

¹Outdoor units operate at outdoor air intake temperature down to 14°F DB with a dipswitch or cut of a jumper.

²Outdoor units operate at outdoor air intake temperature down to 0°F DB with the addition of a wind baffle.

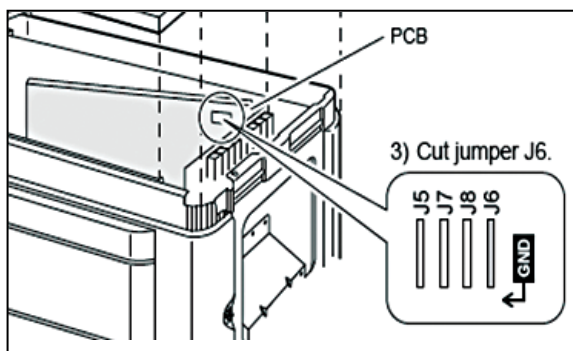
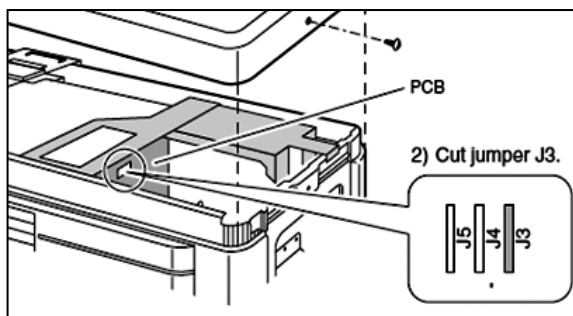
Low Ambient Cooling Operation

RXN09,12KEVJU & RKN09, 12KEVJU

Cutting jumper 3 (J3) on the circuit board will expand the operation range down to 5°F (-15°C). However it will stop if the outdoor temperature drops below -4°F (-20°C) and start back up once the temperature rises again.

RXN15, 18, 24KEVJU & RKN15, 18, 24KEVJU

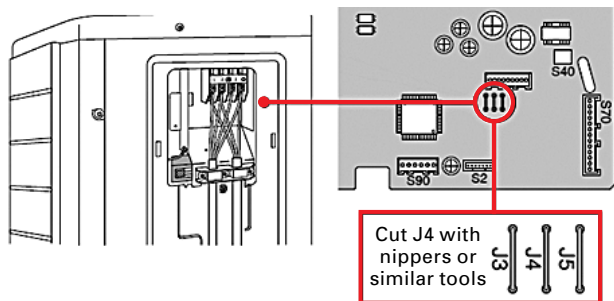
Cutting jumper 6 (J6) on the circuit board will expand the operation range down to 5°F (-15°C). However it will stop if the outdoor temperature drops below -4°F (-20°C) and start back up once the temperature rises again.



Low Ambient Cooling Operation

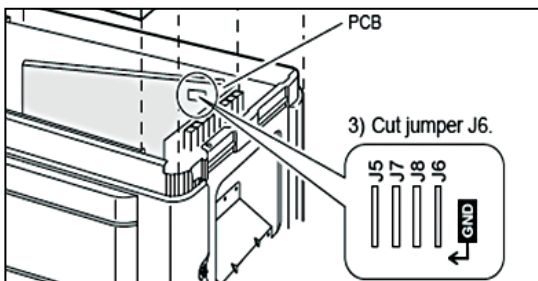
RXS09, 12VJU

Cutting jumper 4 (J4) on the circuit board will expand the operation range down to 14°F (-10°C). However it will stop if the outdoor temperature drops below -0.4°F (-18°C) and start back up once the temperature rises again.



RXS15, 18LVJU

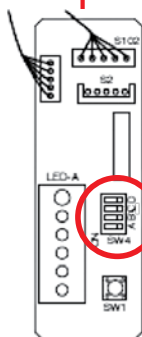
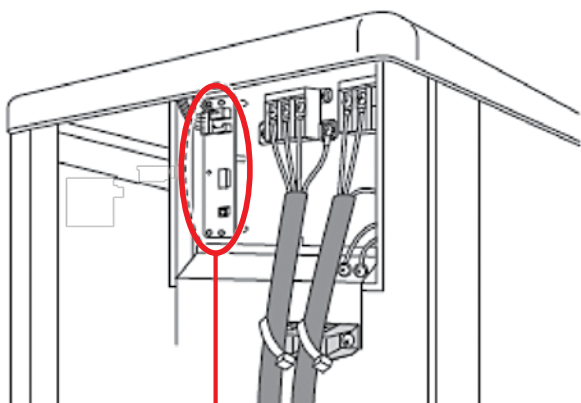
Cutting jumper 6 (J6) on the circuit board will expand the operation range down to 5°F (-15°C). However it will stop if the outdoor temperature drops below -4°F (-20°C) and start back up once the temperature rises again.



Low Ambient Cooling Operation

RXS24, 30, 36LVJU

You can expand the operation range to 14°F (-10°C) by turning on switch B (SW4) on the PCB. If the outdoor temperature falls to -0.4°F (-18°C) or lower, the operation will stop. If the outdoor temperature rises, the operation will start again.



Turn on
Switch B

Operating Ranges

SkyAir

COOLING		
	Indoor Intake Air Temperature	Outdoor Air Temperature
SYSTEM	(MINIMUM – MAXIMUM)	(MINIMUM – MAXIMUM)
RXS_LV RKS_LV	57°F WB (14°C WB), 73°F WB (23°C WB)	50°F DB (10°C DB), 115°F DB (46°C DB) 14°F DB (-10°C DB), 115°F DB (46°C DB) ¹ 0°F DB (-17.8°C DB), 115°F DB (46°C DB) ² -40°F DB (-40°C DB), 115°F DB (46°C DB) ³
RZQ & RZR	57°F WB (14°C WB), 77°F WB (25°C WB)	23°F DB (-5°C DB), 115°F DB (46°C DB) 0°F DB (-17.8°C DB), 115°F DB (46°C DB)

HEATING		
	Indoor Intake Air Temperature	Outdoor Air Temperature
SYSTEM	(MINIMUM – MAXIMUM)	(MINIMUM – MAXIMUM)
RXS	50°F DB (10°C DB), 86°F DB (30°C DB)	5°F DB (-15°C DB), 64°F WB (18°C WB) 0°F DB (-17.8°C DB), 64°F WB (18°C WB) ²
RZQ	59°F DB (15°C DB), 80°F DB (26.7°C DB)	0°F DB (-17.8°C DB), 60°F WB (15.5°C WB)

¹Outdoor units operate at outdoor air intake temperature down to 14°F DB with a dipswitch. Refer to installation manual for details.

²Outdoor units operate at outdoor air intake temperature down to 0°F DB with the addition of a wind baffle.

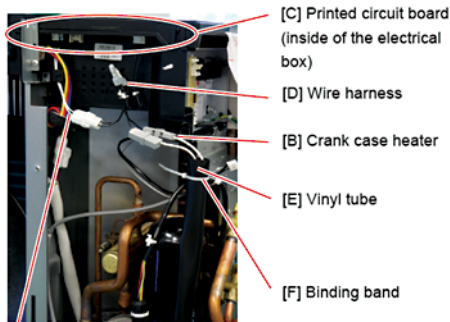
³RKS_LVJU Outdoor units operate at outdoor air intake temperature down to -40°F DB with the addition of a wind baffle and Ultra Low Ambient Kit.

Ultra Low Ambient Operation

For RKS30, 36LVJU Systems

Installation of the Ultra Low Ambient Kit extends cooling operation down to -40°FDB . Refer to Installation Manual for full illustrative, step-by-step instructions.

1. Remove the top plate, right side plate, and front plates.
2. Turn on the facility setting switch by turning on Switch B (SW4) on the printed circuit board.
3. Attach the crank case heater to the compressor.
4. Attach the vinyl tube to the crank case heater.
5. Remove the electrical box and printed circuit board.
6. Attach the code heater.
7. Replace the printed circuit board.
8. Connect the wire harness to each heater's harness.
9. Affix the identification label and electrical wiring diagram label to the right side of the plate.
10. Reattach the top plate, right side plate, and front plates.
11. Check whether the unit is properly operating by conducting the forced cooling operation.



[A] Code heater

	INDOOR		OUTDOOR		
	EWB	EDB	-40 ($^{\circ}\text{FDB}$)		
	$^{\circ}\text{F}$	$^{\circ}\text{F}$	TC	SHC	PI
30 MBH	57.2	68.0	21.70	16.92	0.46
36 MBH	57.2	68.0	22.41	17.47	0.50

Trial Operation and Testing

From Indoor Unit

1. Turn power on to outdoor unit and measure the supply voltage. Make sure it falls in the specified range.
2. Trial operation should be carried out in either cooling or heating mode.
 - In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.
 - After trial operation is complete, set the temperature to a normal level (78 °F to 82 °F in cooling mode, 68 °F to 75 °F in heating mode).
 - For protection, the system disables restart operation for minutes after it is turned off.
3. Carry out the test operation in accordance with the operation manual to ensure all functions and parts are working properly.

From Remote Controller

1. Press "ON/OFF" button to turn on the system.
2. Press "TEMP" button (2 locations) and "MODE" button at the same time.
3. Press "MODE" button twice.
4. ("7--" will appear on the display to indicate that trial operation mode is selected)
5. Trial operation terminates in approximately 30 minutes and switches into normal mode. To quit a trial operation, press "ON/OFF" button.



Test Items

Test Items	Symptom (Diagnostic display Check on RC)
Indoor and outdoor units are installed properly on solid basis	Fall, vibration, noise
No refrigerant gas leaks.	Incomplete cooling/heating function
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated	Water leakage
Draining line is properly installed	Water leakage
System is properly grounded	Electrical leakage
The specified wires are used for inter-unit wiring	Inoperative or burn damage
Indoor or outdoor unit's air inlet or air outlet has clear path of air. Stop valves are opened.	Incomplete cooling/heating function
Indoor unit properly receives remote control commands	Inoperative
The heat pump or cooling only mode is selectable with the DIP switch of the remote controller	Remote controller malfunctioning



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