DAIKIN

DUCTLESS PRODUCTS

REFERENCE GUIDE

05.15

15 Series, 19 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.

ENERGY STAR® and the **ENERGY STAR** mark are registered trademarks owned by the U.S. Environmental Protection Agency. **ENERGY STAR** products are third-party certified by an EPA-recognized Certification Body. Products that earn the **ENERGY STAR** prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency.

Not all models are **ENERGY STAR** certified. Refer to specification sheets for further details.

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet **ENERGY STAR** criteria. Ask your contractor for details or visit www.energystar.gov.

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.

TABLE OF CONTENTS

PRODUCT

SELLING & INSTALLATION TIPS

SPECIFICATIONS & ACCESSORIES

DESIGN

DAIKIN

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
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.

*Compared to 14 SEER Unitary System

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

*Compared to 14 SEER Unitary System

PRODUCT

Wall-Mounted

Ductless Models

15 Series | 9,000 - 24,000 BTU/h *Heat Pump or Cooling Only*

- 15 SEER | 8.2 HSPF
- Quiet operation as low as 19 dB(A)

19 Series | 9,000 - 24,000 BTU/h *Heat Pump or Cooling Only*

- Up to 19 SEER | 9.0 HSPF
- Quiet operation as low as 19 dB(A)
- Low ambient cooling down to 0°F *
- Low ambient heat operation down to -4°F ***

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

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
- Washable filters

*with optional wind baffle **On select models
***with optional drain pan heater

Ceiling and Floor 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

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 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

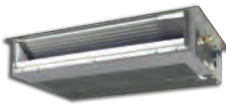
FLOOR STANDING

FVXS SERIES | 9,000 – 18,000 BTU/h

Heat Pump Only

- Up to 18.0 SEER
- Option to partially recess or flush mount to wall
- Flexible room applications
- Match with MXS and RMXS only

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

RX, RXN, RXS, RXG Heat Pump and RK, RKN Cooling Only

9,000 – 24,000 BTU/h

- Up to 26.1 SEER
- Slim, compact design
- Pre-charged for 33 ft. of 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
- Long piping lengths up to 433 ft. total
- Connect 2-8 indoor units to one outdoor unit

** RMXS48LVJU requires at least one branch port unit. Refer to Engineering Guide for details.*

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.

Energy Friendly

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

Value

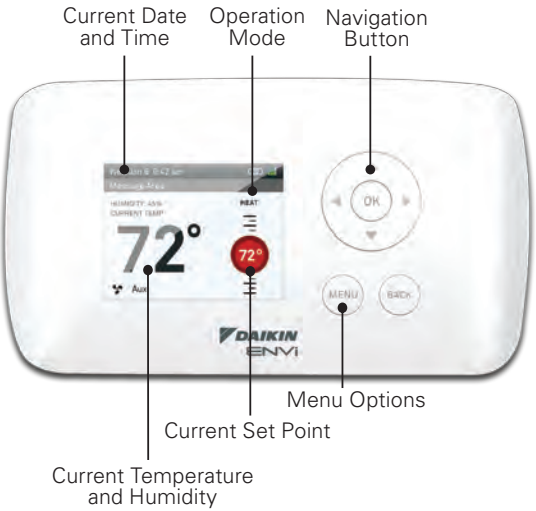
Access your own personal and secure web page to manage all aspects of your thermostat at no cost to you.

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 25 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

Note: A separate adaptor may be required. Refer to engineering guides and page 58.

Wireless Remote Controller

Comfort control at your fingertips

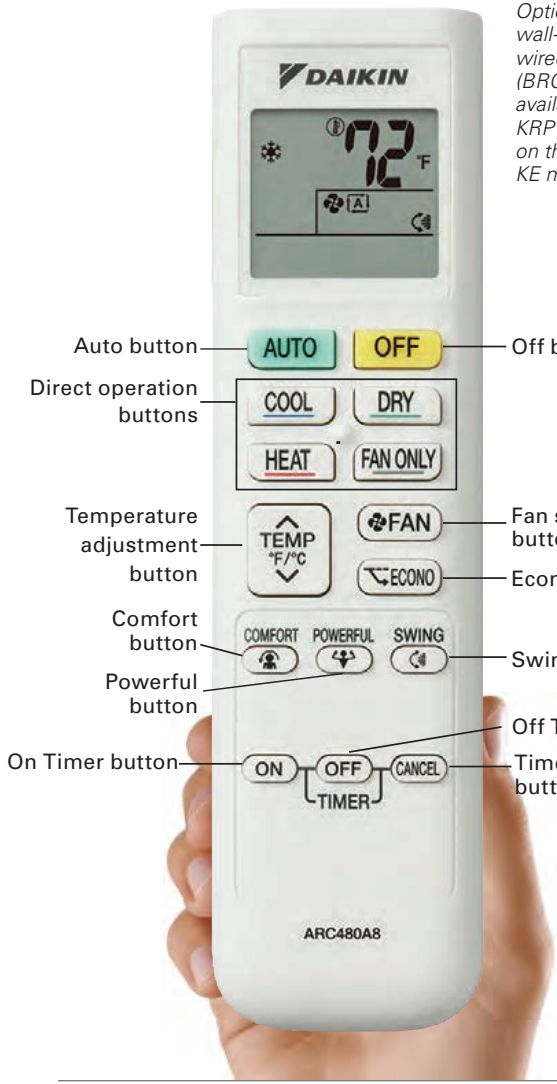
Want to make your room comfortable at the touch of a single button? No problem. Wall-mounted and slim-ducted units come with a user-friendly remote control featuring a minimalistic, modern design in a matte crystal-white finish that forms a perfect match with the indoor unit.

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)



Auto button

Off button

Direct operation buttons

Temperature adjustment button

Fan setting button

Econ button

Comfort button

Powerful button

Swing button

Off Timer button

On Timer button

Timer cancel button

BRC1E73 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

BRC1E73RM

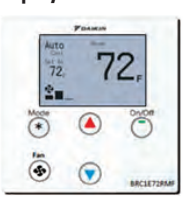
BRC1E73RF

BRC1E73RMF

Dual Setpoint Face Decals for Simplified Display

BRC1E73RM2

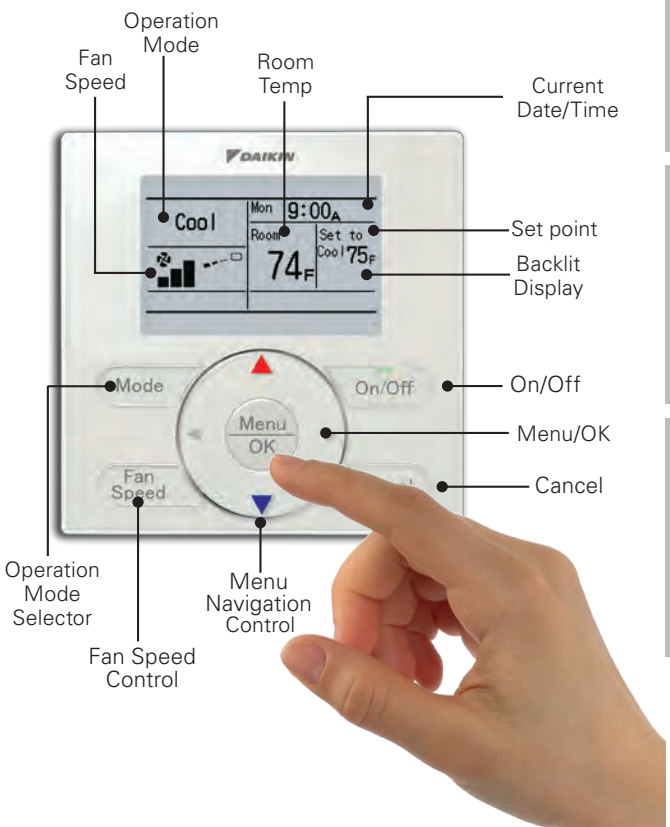
BRC1E73RF2



BRC1E73RMF2

Features & Functions:

Basic Operation	Function
Operation Mode	Configurable Display
Set Point	Auto-Changeover
Fan Speed, Airflow Direction	Weekly Schedule
Auto On/Off Timer	Independent Cooling and Heating Set Points and Setback for unoccupied periods



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
- ☐ Tool Kit – DACA-99STK-1

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
- ☐ Energy efficiency
- ☐ Heat and cool only the rooms you use
- ☐ Individual room comfort control
- ☐ Long-life, washable filters
- ☐ Quick and easy installation
- ☐ High quality, reliable products with outstanding limited 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 your Daikin distributor or at www.daikincomfort.com and www.daikinac.com

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

*Compared to 14 SEER Unitary System

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

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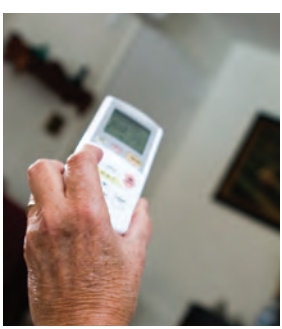


- Introduce the features of Daikin ENVi Intelligent Thermostats.
  - Wi-Fi set-up
  - PC, smart phone, tablet control
  - System control and scheduling
  - Outside temperature, humidity and weather forecasts
- Explain temperature control from remote controller, set temperature setpoints that provide 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 trouble-shooting 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

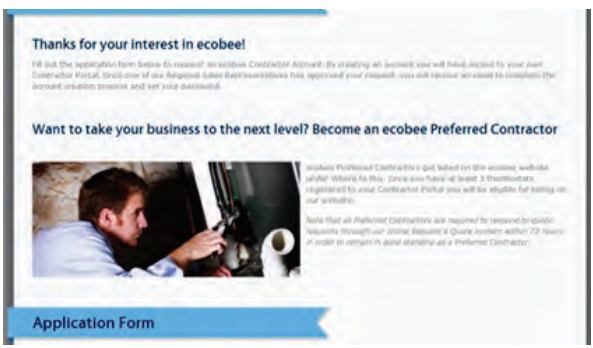
Become A Preferred Contractor

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.



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

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

For more information:

Sales and Technical Support:
1-855-DAIKIN1

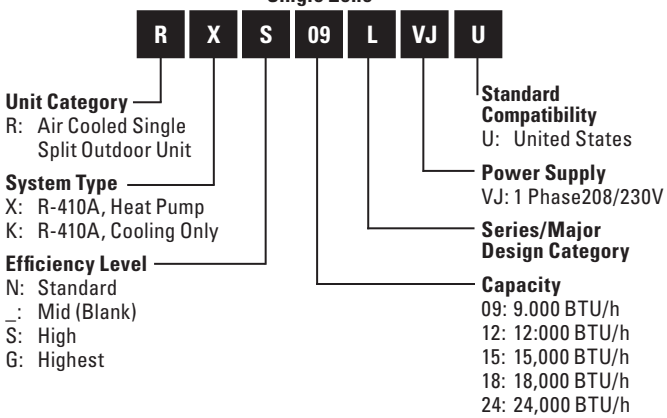
www.daikincomfort.com

SPECIFICATIONS & ACCESSORIES

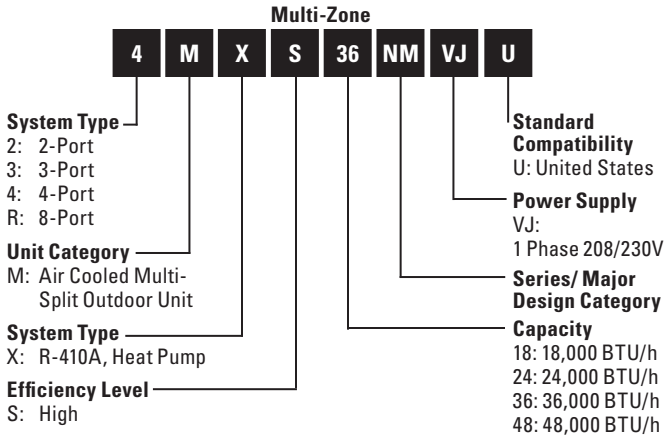
Nomenclature

How to Read Model Numbers – Outdoor Units

Single Zone



Multi-Zone



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

- For residential and light commercial buildings
- High heating capacity at lower ambient temperatures

Nomenclature

How to Read Model Numbers – Indoor Units

Indoor Type
CD: Slim Duct*
CT: Wall Mount*
F: Indoor Unit
FD: Slim Duct
FT: Wall Mount

System Type
F: 2' X 2' Ceiling Cassette
X: R-410A, Heat Pump or Cooling Only (Standard Eff.)
R-410A, Heat Pump (High Eff.)

Efficiency Level
G: Highest
N: Standard
Q: R-410A, Heat Pump
S: High
_: Mid (Blank)

Capacity
09: 9.000 BTU/h
12: 12:000 BTU/h
15: 15,000 BTU/h
18: 18,000 BTU/h
24: 24,000 BTU/h

Series/Major Design Category

Power Supply
VJ: 1 Phase208/230V

Standard Compatibility
U: United States

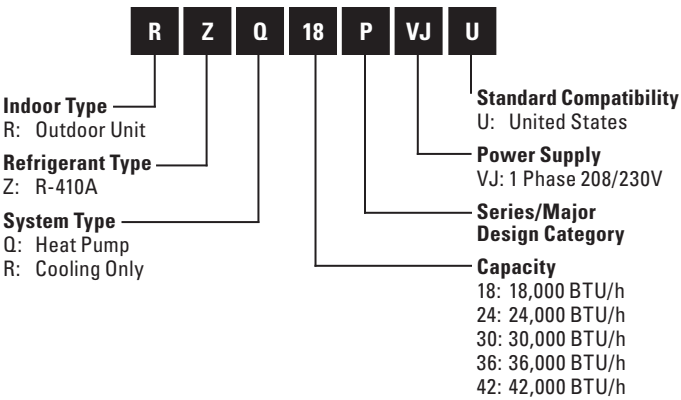
**Compatible with multi-split MXS outdoor units only*

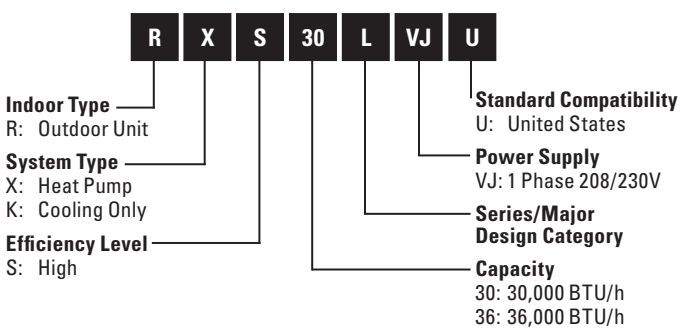
Single & Multi-Split Systems (9,000 – 48,000 BTU/h)

- 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

How to Read Model Numbers



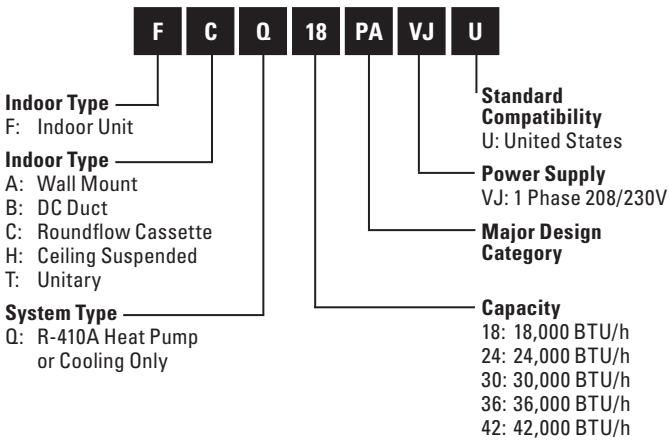


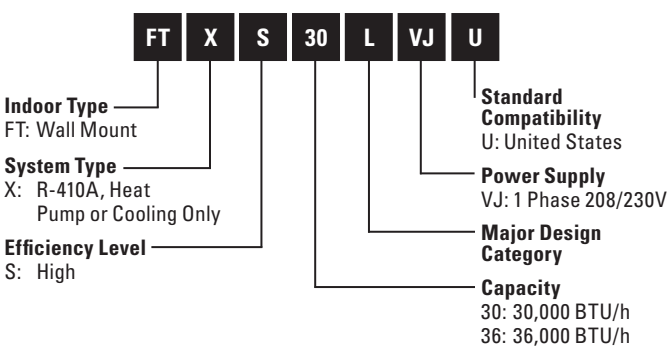
SkyAir Systems (18,000 – 42,000 BTU/h)

- 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

How to Read Model Numbers





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

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

15 Series Specs

Wall-Mounted Ductless Heat Pump or Cooling Only

Nominal Tons			**.75 Ton**
Indoor Model#	Heat Pump		**FTXN09NMVJU**
Outdoor Model#	Heat Pump		**RXN09NMVJU**
Indoor Model#	Cooling Only		**FTKN09NMVJU**
Outdoor Model#	Cooling Only		**RKN09NMVJU**
Cooling Capacity (Rated)		BTU/h	9,000
Cooling Capacity (Min – Max)		BTU/h	4,400-10,200
Heating Capacity (Rated)*		BTU/h	9,000
Heating Capacity (Min – Max)*		BTU/h	4,400-10,000
SEER / HSPF			15 / 8.2
COP / EER			3.6 / 10.4
Power Supply			208-230V / 1 Ph
Minimum Circuit Amps Heat Pump		A	10.1
Minimum Circuit Amps Cooling Only		A	7.9
Maximum Overcurrent Protection		A	15
Liquid Piping Connections (O.D.)		in.	¼
Gas Piping Connections (O.D.)		in.	⅜
Condensate Drain		in.	⅝
Max. Piping Length		ft.	49
Max. Piping Height		ft.	39
Indoor Dimensions (H x W x D)		in.	11¼ x 30⅝ x 8¾
Outdoor Dimensions (H x W x D)		in.	21⅝ x 26½ x 11⅛
Operating Range - Cooling		°F DB	50 - 115
Operating Range - Heating*		°F DB	5 - 75

*Applicable to heat pump models only, refer to installation manual for more details.

1.0 Ton	1.5 Ton	2.0 Ton
FTXN12NMVJU	**FTXN18NMVJU**	**FTXN24NMVJU**
RXN12NMVJU	**RXN18NMVJU**	**RXN24NMVJU**
FTKN12NMVJU	**FTKN18NMVJU**	**FTKN24NMVJU**
RKN12NMVJU	**RKN18NMVJU**	**RKN24NMVJU**
12,000	**17,100**	**22,000**
4,400-13,000	4,400-18,000	5,100-23,000
12,000	18,000	22,000
4,400-14,000	4,400-18,000	5,100-25,400
15 / 8.2	15 / 8.2	15 / 8.2
3.3 / 10.5	3.2 / (11.0AC & 12.2HP)	3.2 / 9.2
208-230V / 1 Ph	208-230V / 1 Ph	208-230V / 1 Ph
10.1	13.3	18.3
8.6	9.5	18.3
15	20	20
¼	¼	¼
⅜	½	⅝
⅝	11/16	11/16
49	98.2	98.2
39	65.6	65.6
11¼ x 30⅜ x 8¾	11⅜ x 39 x 10⅜	11⅜ x 39 x 10⅜
21⅜ x 26½ x 11⅛	29 x 34¼ x 12⅝	29 x 34¼ x 12⅝
50 - 115	50 - 115	50 - 115
5 - 75	5 - 75	5 - 75

19 Series Specs

Wall-Mounted Ductless Heat Pump or Cooling Only

ENERGY STAR® Certified			Yes
Nominal Tons			**0.75 Ton**
Indoor Model#	Heat Pump		FTX09NMVJU
Outdoor Model#	Heat Pump		RX09NMVJU
Indoor Model#	Cooling Only		FTK09NMVJU
Outdoor Model#	Cooling Only		RK09NMVJU
Cooling Capacity (Rated)		BTU/h	9,000
Cooling Capacity (Min – Max)		BTU/h	4,400-10,200
Heating Capacity (Rated)*		BTU/h	10,000
Heating Capacity (Min – Max)*		BTU/h	4,400-13,000
SEER / HSPF			19 / 9.0
COP / EER			4.06 / 12.5
Power Supply			208-230V / 1 Ph
Minimum Circuit Amps		A	12.1
Maximum Overcurrent Protection		A	15
Liquid Piping Connections (O.D.)		in.	¼
Gas Piping Connections (O.D.)		in.	⅜
Condensate Drain		in.	⅝
Max. Piping Length		ft.	65.6
Max. Piping Height		ft.	49.2
Indoor Dimensions (H x W x D)		in.	11¼ x 30⅝ x 8¾
Outdoor Dimensions (H x W x D)		in.	21⅝ x 26½ x 11⅛
Operating Range - Cooling		°F DB	50 - 115
Operating Range - Low Ambient Cooling**		°F DB	14 - 115
Operating Range - Cooling with Optional Wind Baffle**		°F DB	0 - 115
Operating Range - Heating*		°F DB	5 - 75
Operating Range - Heating with Optional Drain Pan Heater		°F DB	¯4 - 75

*Applicable to heat pump models only, refer to installation manual for more details.
**Cutting a jumper is required. Refer to installation manual.

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ENERGY STAR

Yes	Yes	Yes
1.0 Ton	**1.5 Ton**	**2.0 Ton**
FTX12NMVJU	FTX18NMVJU	FTX24NMVJU
RX12NMVJU	RX18NMVJU	RX24NMVJU
FTK12NMVJU	FTK18NMVJU	FTK24NMVJU
RK12NMVJU	RK18NMVJU	RK24NMVJU
10,900	**18,000**	**22,000**
4,400-13,300	5,800-20,000	5,800-24,000
13,500	21,600	24,000
4,400-16,400	5,800-24,000	24,000 (5,800~27,600)
19 / 9.0	18 / 9.0	18 / 9.0
3.8 / 12.5	3.6 / 12.5	3.5 / 12.5
208-230V / 1 Ph	208-230V / 1 Ph	208-230V / 1 Ph
12.2	18.3	18.3
15	20	20
¼	¼	¼
⅜	½	⅝
⅝	11/16	11/16
65.6	98.2	98.2
49.2	65.6	65.6
11¼ x 30⅜ x 8¾	11⅜ x 39 x 10⅝	11⅜ x 39 x 10⅝
21⅜ x 26½ x 11⅛	29 x 34¼ x 12⅝	29 x 34¼ x 12⅝
50 - 115	50 - 115	50 - 115
14 - 115	14 - 115	14 - 115
0 - 115	0 - 115	0 - 115
5 - 75	5 - 75	5 - 75
¯4 - 75	¯4 - 75	¯4 - 75

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LV Series Specs

Wall-Mounted Ductless Heat Pump

Nominal Tons		**0.75 Ton**
Indoor Model#		**FTXS09LVJU**
Outdoor Model#		**RXS09LVJU**
Cooling Capacity (Rated)	BTU/h	9,000
Cooling Capacity (Min – Max)	BTU/h	4,400 – 10,600
Heating Capacity (Rated)*	BTU/h	12,000
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.	11⅜ x 31½ x $8^{7}/_{16}$
Outdoor Dimensions (H x W x D)	in.	21⅝ x 30⅛ x11¼

*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**
12,000	15,000	18,000	21,500
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
		13⅜ x 41 5/16 x 9¾	
	28 15/16 x 32½ x 11 13/16		30 5/16 x 35 7/16 x 12⅝

LV Series Specs

Slim Duct Heat Pump

Nominal Tons		0.75 Ton	1.0 Ton
Indoor Model#		FDXS09LVJU	FDXS12LVJU
Outdoor Model#		RXS09LVJU	RXS12LVJU
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.	7⅞ x 27 9/16 x27 7/16	
Outdoor Dimensions (H x W x D)	in.	21⅝ x 30⅛ x11¼	

*Refer to installation manual for more details.

Quaternity Specs

Wall-Mounted Ductless Heat Pump

ENERGY STAR® Certified		Yes	Yes	Yes
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
MOCP	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 $11^{7}/_{32}$		

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MXS Specs

Multi-Split Ductless Outdoor Unit

Outdoor Model#		2MXS18NMVJU	3MXS24NMVJU
Cooling Capacity (Rated-Max)	BTU/h	18,000-21,000	24,000-30,000
Heating Capacity Rated (Min – Max)	BTU/h	18,900-25,000	24,000-36,000
Max Connected Capacity	BTU/h	24,000	39,000
Min-Max No. of Indoor Units		2	2-3
Power Supply	60 Hz	208-230V / 1 Ph	208-230V / 1 Ph
Minimum Circuit Amps	A	15.8	18.7
Maximum Overcurrent Protection	A	20	20
Max Total Piping Length	ft.	164	230
Max piping length to indoor	ft.	82	82
Max Piping Height	ft.	49.2	49.2
Dimensions	HxWxD	29 x 34¼ x12⅝	29 x 34¼ x 12⅝
SEER/EER/HSPF/COP	Non-Ducted	18.9/12.5/10.7/4.1*	17.9/12.7/12.5/4.6*
	Mixed	16.5/11.0/9.5/4.1	15.9/11.2/10.4/3.2
	Ducted	14.0/9.5/8.2/4.1	14.0/9.7/8.2/3.9
Operating Range - Cooling	°F DB	14 - 115	14 - 115
Operating Range - Heating	°F DB	5 - 75	5 - 75
Operating Range - Heating with Optional Drain Pan Heater	°F DB	¯4 - 75	¯4 - 75

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		2MXS18NMVJU	3MXS24NMVJU	4MXS36NMVJU	RMXS48LVJU
Wall Mounted	CTXS07JVJU	x	x	x	x
	CTXS09HVJU	x	x	x	x
	CTXS12HVJU		x	x	x
	CTXS07LVJU	x	x	x	x
	FTXS09LVJU	x	x	x	x
	FTXS12LVJU	x	x	x	x
	FTXS15LVJU	x	x	x	x
	FTXS18LVJU		x	x	x
	FTXS24LVJU			x	x

4MXS36NMVJU	RMXS48LVJU
36,000-38,000	48,000
36,000-38,000	62,400
48,000	48,000
2-4	2-8
208-230V / 1 Ph	208-230V / 1 Ph
19.75	NA
20	NA
230	433
82	230
49.2	98.4
29 x 34¼ x 12	$52^{15}/_{16}$ x $35^{7}/_{16}$ x $12^{5}/_{8}$
17.7/9.2/12.2/4.5	18.8/11.3/10.3/3.0
15.9/8.5/10.2/3.4	16.5/10.5/9.8/2.9
14.0/7.9/8.2/3.9	14.1/9.6/9.3/2.7
14 - 115	14 - 115
5 - 75	5 - 75
¯4 - 75	¯4 - 75

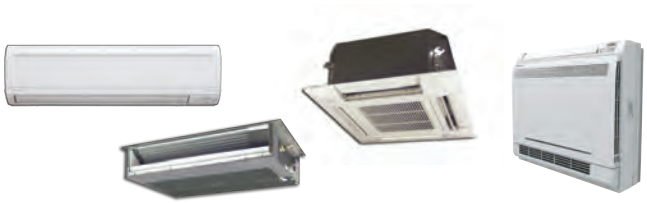
RMXS48LVJU requires at least one branch port unit. Two sizes available, 2-port and 3-port. Refer to installation manual for full refrigerant piping lengths and requirements.

		2MXS18NMVJU	3MXS24NMVJU	4MXS36NMVJU	RMXS48LVJU
2x2 Cassette	FFQ09LVJU	x	x	x	x
	FFQ12LVJU	x	x	x	x
	FFQ15LVJU	x	x	x	x
	FFQ18LVJU		x	x	x
Floor Standing	FVXS09NVJU	x	x	x	x
	FVXS12NVJU	x	x	x	x
	FVXS18NVJU		x	x	x
Duct-Connected	FDXS09LVJU	x	x	x	x
	FDXS12LVJU	x	x	x	x
	CDXS15LVJU	x	x	x	x
	CDXS18LVJU		x	x	x
	CDXS24LVJU			x	x

MXS Specs

Indoor Units

Wall-Mounted Units			
Indoor Model#		**CTXS07LVJU**	**FTXS09LVJU**
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 5/8
Indoor Dimensions (H x W x D)	in.	11⅝ x 31½ x 8 7/16	11 5/8 x 31½ x 8 7/16
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.		7⅞ x 27 9/16 x 24 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.		11¼ x 22⅝ x 22⅝
Floor Standing Units			
			FVXS09NVJU
Cooling Capacity (Nominal)	BTU/h		9,000
Heating Capacity (Nominal)	BTU/h		12,000
Liquid Piping Connection (O.D.)	in.		Ø 1/4
Gas Piping Connection (O.D.)	in.		Ø 3/8
Condensate Drain	in.		Ø 1
Indoor Dimensions (H x W x D)	in.		23⅜ x 27½ x 8¼



FTXS12LVJU	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 5/8	Ø 5/8	Ø 5/8	Ø 5/8
$11^{7}/_{16}$ x $31^{5}/_{16}$ x 9⅝		13⅜ x 41⅝ x 9¾	

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
7⅞ x $27^{9}/_{16}$x$24^{7}/_{16}$		7⅞ x $35^{7}/_{16}$ x $24^{7}/_{16}$	

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
11¼ x 22⅝ x 22⅝		

FVXS12NVJU	FVXS18NVJU
12,000	18,000
14,400	21,600
Ø 1/4	Ø 1/4
Ø 3/8	Ø 1/2
Ø 1	Ø 1
23⅜ x 27½ x 8¼	23⅜ x 27½ x 8¼

Controller is not included on the FFQ models.

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

FAQ Series

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.	11⅜ x 41⅜ 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.	11⅜ x 41⅜ x 9	
Outdoor Dimensions (H x W x D)	in.	$30^{5}/_{16}$ x $35^{7}/_{16}$ x 12⅝	

*Available on Heat Pump models only

FTXS Series

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.	13⅜ x 47¼ x $9^{7}/_{16}$	
Outdoor Dimensions (H x W x D)	in.	$38^{15}/_{16}$ x 37 x 12⅝	

*Available on Heat Pump models only

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 39⅜ x $27^{9}/_{16}$
Outdoor Dimensions (H x W x D)	in.	$30^{5}/_{16}$ x $35^{7}/_{16}$ x 12⅝

*Available on Heat Pump models only

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
		$11^{13}/_{16}$ x 55⅛ x $27^{9}/_{16}$	
		$52^{15}/_{16}$ x $35^{7}/_{16}$ x 12⅝	

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 12⅝

*Available on Heat Pump models only

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 12⅝	

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 62⅝ x 26¾
Outdoor Dimensions (H x W x D)	in.	$30^{5}/_{16}$ x $35^{7}/_{16}$ x 12⅝

*Available on Heat Pump models only

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	14.0 / 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
$7^{11}/_{16}$ x 62⅝ x 26¾			
$30^{5}/_{16}$ x $35^{7}/_{16}$ x 12⅝		$52^{15}/_{16}$ x $35^{7}/_{16}$ x 12⅝	

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.	48⅛ x 22 x 26
Outdoor Dimensions (H x W x D)	in.	$30^{5}/_{16}$ x $35^{7}/_{16}$ x 12⅝

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 12⅝			

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
KRP980B2	Interface Adaptor for BRC944B2-A08 Kit - Part 3 (Required for the 18&24 *NMVJU) (and for DACA-TS1-1)
KRP067A41	Interface Adaptor for BRC944B2-A08 Kit - Part 3 (Required for the 09&12 *NMVJU) (and for DACA-TS1-1)
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	
KAF974B42S Quaternity Wall-mount	Air-purifying Filter Set
KAF970A45 15 & 19 Series Wall-mount: 18, 24	Air-purifying Filter WITH frame

Accessories *(continued)*

Item #	Item Description
Filter Replacements (cont.)	
KAF970A46 15 & 19 Series Wall-mount: 09, 12 LV Series Wall-mount: 09, 12, 15, 18, 24	Air-purifying Filter WITHOUT frame
KAF968B42 Floor Standing FVXS**NVJU	Air-purifying Filter without frame
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) (For 09&12 *NMVJU)
KPW945A4	Low ambient wind baffle (RXS Models) Air Direction Grille (RXG Models)
KPW063A4	Air direction adjustment grille (For 18&24 *NMVJU)
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 mini-splits
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																
			RXN09NMVJU	RXN12NMVJU	RXN18NMVJU	RXN24NMVJU	RKN09NMVJU	RKN12NMVJU	RKN18NMVJU	RKN24NMVJU	RX09NMVJU	RX12NMVJU	RX18NMVJU	RX24NMVJU	RK09NMVJU	RK12NMVJU	RK18NMVJU	RK24NMVJU
Indoor Unit	Split Systems (Single & Multi)	FTXN09NMVJU	•															
		FTXN12NMVJU		•														
		FTXN18NMVJU			•													
		FTXN24NMVJU				•												
		FTKN09NMVJU					•											
		FTKN12NMVJU						•										
		FTKN18NMVJU							•									
		FTKN24NMVJU								•								
		FTX09NMVJU									•							
		FTX12NMVJU										•						
		FTX18NMVJU											•					
		FTX24NMVJU												•				
		FTK09NMVJU													•			
		FTK12NMVJU														•		
		FTK18NMVJU															•	
		FTK24NMVJU																•
		FTXS09LVJU																
		FTXS12LVJU																
		FTXS15LVJU																
		FTXS18LVJU																
		FTXS24LVJU																
		FTXG09HVJU																
		FTXG12HVJU																
		FTXG15HVJU																
		FDXS09LVJU																
		FDXS12LVJU																
	Split Systems (Multi Only)	CTXS07JVJU																
		CTXS09HVJU																
		CTXS12HVJU																
		CTXS07LVJU																
		CDXS15LVJU																
		CDXS18LVJU																
		CDXS24LVJU																
		FFQ09LVJU																
		FFQ12LVJU																
		FFQ15LVJU																
		FFQ18LVJU																
		FVXS09NVJU																
		FVXS12NVJU																
		FVXS18NVJU																
	Wind Baffle	KPW038A4																
		KPW937E4	•	•			•	•			•	•			•	•		
		KPW063A4			•	•			•	•			•	•			•	•
		KPW937C4																
		KPW945A4	•	•			•	•			•	•			•	•		

Outdoor Unit														Controls			
Single Split Systems									Multi-Split								
RXG09LVJU	RXG12LVJU	RXG15LVJU	RXS09LVJU	RXS12LVJU	RXS15LVJU	RXS18LVJU	RXS24LVJU	2MXS18NMVJU	3MXS24NMVJU	4MXS36NMVJU	RMXS48LVJU	BRC1E73	BRC7E830	BRC944B2	DACA-TS1-1 Daikin ENVi
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Multi-Zone Combination Table

Install the indoor unit according to the table below, which shows the relationship between the class of indoor unit and the corresponding port.

The total indoor unit class that can be connected to this unit:

2MXS18* – Up to 24000 Btu

3MXS24* – Up to 39000 Btu

4MXS36* – Up to 48000 Btu

The line set piping size is determined by the size of the indoor unit fittings. Reducers are used at the outdoor unit to accommodate the correct gas line pipe size.

Port	2MXS18*	3MXS24*	4MXS36*
A	07, 09, 12	07, 09, 12	07, 09, 12
B	# 07 # 09 # 12 15	# 07 # 09 # 12 15 18	# 07 # 09 # 12 15 18
C	———	# 07 # 09 # 12 15 18	# 07 # 09 # 12 15 18
D	———	———	▲ 07 ▲ 09 ▲ 12 ■ 15 ■ 18 24

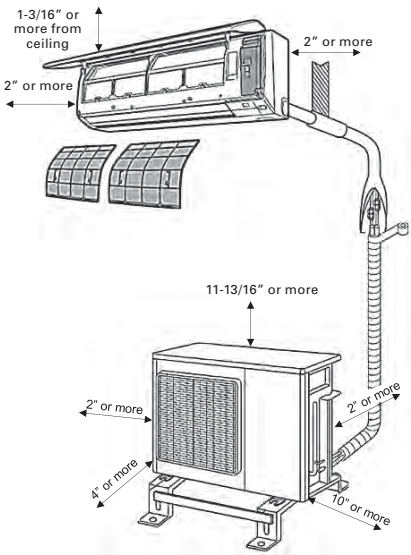
●	Use a reducer to connect pipes.
#	Use No. 2 and 4 reducers
▲	Use No. 5 and 6 reducers
■	Use No. 1 and 3 reducers

Compatibility Matrix

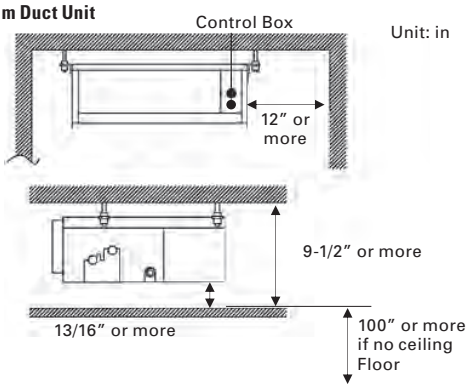
DAIKIN DUCTLESS SYSTEM COMPATIBILITY MATRIX		Outdoor Unit										
		Outdoor Unit				Controls						
		RXS__LVJU	RZQ__PVJU(9)	RKS__LVJU	RZR__PVJU	BRC1E73	BRC2A71	BRC4C82	BRC7E83	BRC944	BRCE818	DACA-TS1-1
Indoor Unit	FTXS_LVJU	•		•						•		•
	FAQ_PVJU		•		•	•	•				•	
	FBQ_PVJU		•		•	•	•	•				
	FCQ_PAVJU		•		•	•	•					
	FHQ_MVJU		•		•	•			•			
	FHQ_PVJU		•		•	•	•		•			
	FHQ_PBVJU		•			•						
Wind Baffle	KPW5E112	•		•								
	KPW5E80		•		•							

System Clearances

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



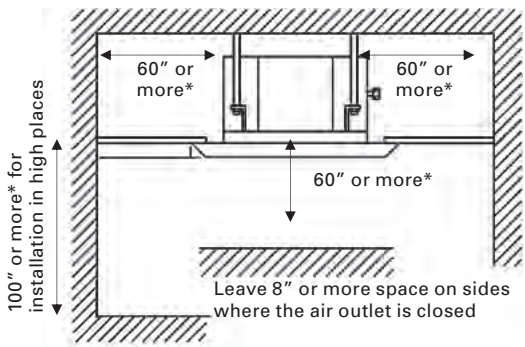
Slim Duct Unit



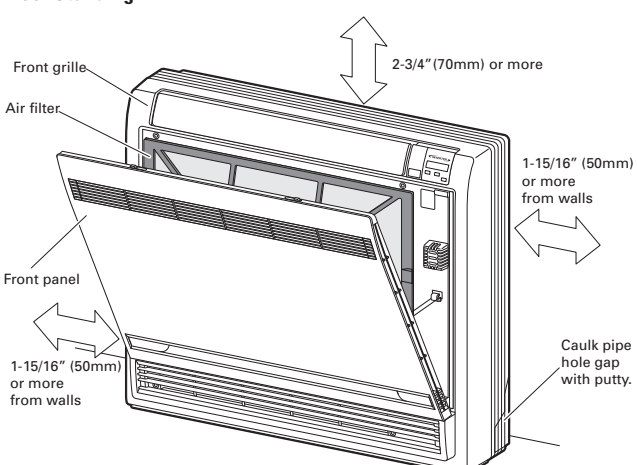
System Clearances

Indoor Units

2′ X 2′ Ceiling Cassette



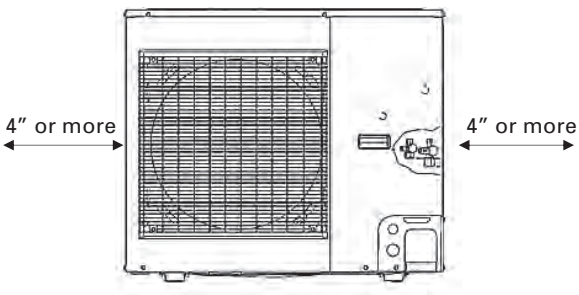
Floor Standing

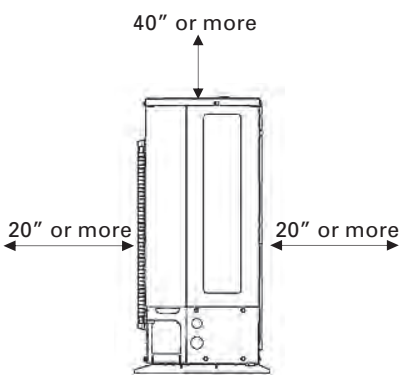


System Clearances

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.

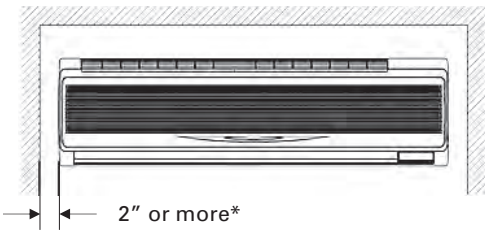




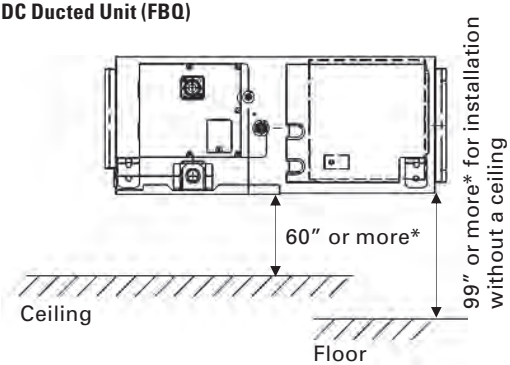
System Clearances

Indoor Units

Wall Mounted Unit (FAQ)



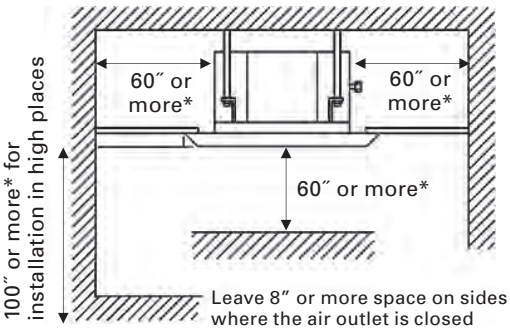
DC Ducted Unit (FBQ)



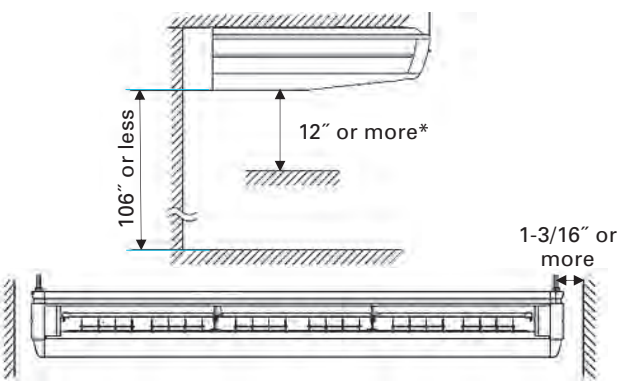
System Clearances

Indoor Units

3'X 3' Ceiling Cassette (FCQ)



Ceiling Suspended (FHQ)

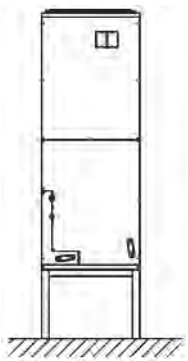


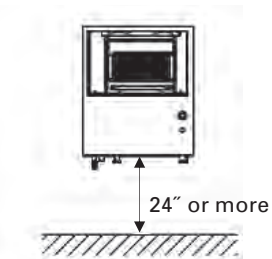
System Clearances

Indoor Units

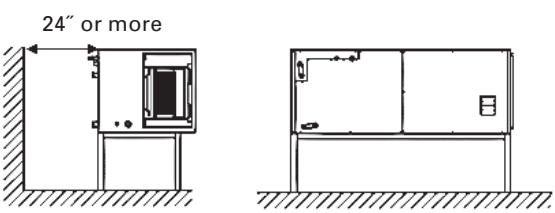
Inverter Ducted (FTQ)

Vertical Installation





Horizontal Installation



Electrical Requirements

Indoor Unit	Outdoor Unit	Minimum Circuit Amps (A)	Maximum Overcurrent Protection (A)
15 Series			
FTXN09NMVJU	RXN09NMVJU	10.1	15
FTXN12NMVJU	RXN12NMVJU	10.1	15
FTXN18NMVJU	RXN18NMVJU	13.3	20
FTXN24NMVJU	RXN24NMVJU	18.3	20
FTKN09NMVJU	RKN09NMVJU	7.9	15
FTKN12NMVJU	RKN12NMVJU	8.6	15
FTKN18NMVJU	RKN18NMVJU	9.5	20
FTKN24NMVJU	RKN24NMVJU	18.3	20
19 Series			
FTX09NMVJU	RX09NMVJU	12.1	15
FTX12NMVJU	RX12NMVJU	12.2	15
FTX18NMVJU	RX18NMVJU	18.3	20
FTX24NMVJU	RX24NMVJU	18.3	20
FTK09NMVJU	RK09NMVJU	12.1	15
FTK12NMVJU	RK12NMVJU	12.2	15
FTK18NMVJU	RK18NMVJU	18.3	20
FTK24NMVJU	RK24NMVJU	18.3	20
LV Series			
FTXS09LVJU	RXS09LVJU	8.0	15
FTXS12LVJU	RXS12LVJU	8.8	15
FTXS15LVJU	RXS15LVJU	13.8	20
FTXS18LVJU	RXS18LVJU	13.8	20
FTXS24LVJU	RXS24LVJU	17.5	20
FDXS09LVJU	RXS09LVJU	8.0	15
FDXS12LVJU	RXS12LVJU	8.8	15
Quaternity Series			
FTXG09HVJU	RXG09HVJU	14.5	15
FTXG12HVJU	RXG12HVJU	14.5	15
FTXG15HVJU	RXG15HVJU	14.5	15
MXS SERIES			
	2MXS18NMVJU	15.8	20
	3MXS24NMVJU	18.7	20
	4MXS36NMVJU	19.75	20
	RMXS48LVJU	27.0	30.0

Electrical Requirements

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

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

⚠WARNING – HIGH VOLTAGE
DISCONNECT ALL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT.
FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

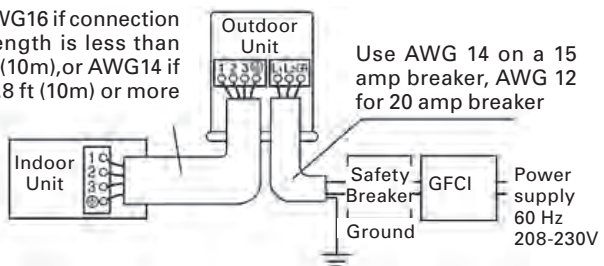
Single-Zone Split Systems (RK, RX, RKN, RXN, RXS, RXG)

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.

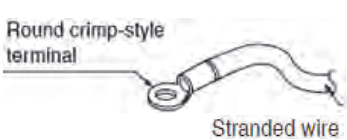
Use AWG16 if connection wire length is less than 32.8 ft (10m),or AWG14 if it is 32.8 ft (10m) or more



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.



Stripping wire at terminal block

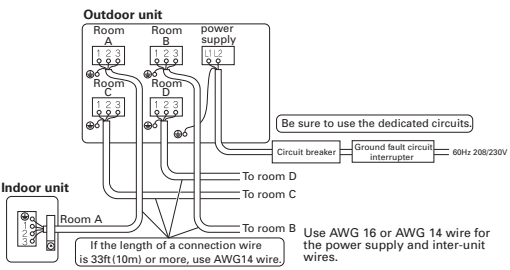
Wiring

⚠WARNING – HIGH VOLTAGE

DISCONNECT ALL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT.
FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

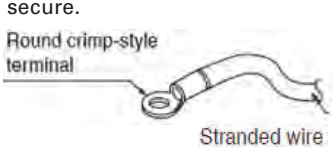
Multi-Zone Split Systems (2MXS, 3MXS, 4MXS)
Wiring Procedure

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 to tighten the screws.
3. **Be sure to match the symbols for wiring and piping.**
4. Pull the wire lightly to make sure that it does not disconnect.
5. Pass the wiring through the cutout on the bottom of the protection plate.
6. After completing the work, reattach the service lid to its original position.

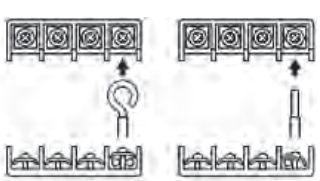


In case using stranded wires is unavoidable, make sure to install the round crimp-style terminals on the tip.

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



Perform curling when using a single core wire.



Stripping wire at terminal block

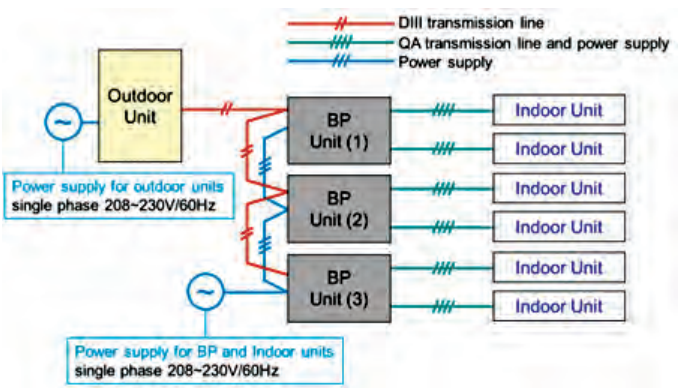
Wiring

⚠WARNING – HIGH VOLTAGE

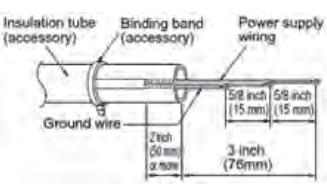
DISCONNECT ALL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT.
FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

8-Zone Multi-Split System

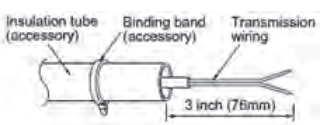
The outdoor unit and BP units operate from separate 208/230V single-phase power supplies. Indoor units are powered from the BP unit and wired as Daikin's current 4 wire single split systems reducing the wiring size and easing installation.



Power Supply Wiring



Transmission Wiring



Refer to the installation manual for more detailed instructions.

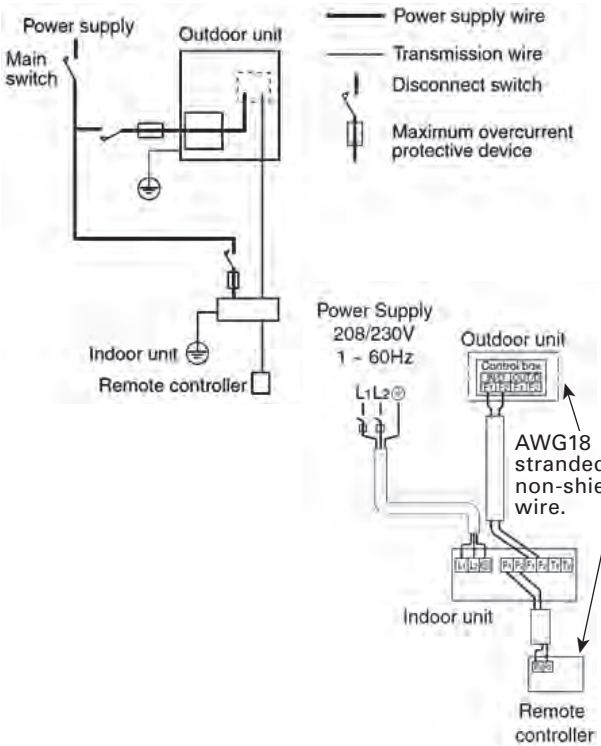
Wiring

⚠WARNING – HIGH VOLTAGE

DISCONNECT ALL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

SkyAir RZQ, RZR Systems

Complete System Example



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

Piping Lengths

Outdoor Unit	Min Length (ft)	Max Length (ft)	Max Height (ft)	Chargeless* (ft)
RKN* RXN*				
9 & 12 MBH	4.92	49.2	39.4	32.8
18 & 24 MBH	4.92	98.4	65.6	32.8

Outdoor Unit	Min Length (ft)	Max Length (ft)	Max Height (ft)	Chargeless* (ft)
RK* RX*				
9 & 12 MBH	4.92	65.6	49.2	32.8
18 & 24 MBH	4.92	98.4	65.6	32.8

Outdoor Unit	Min Length (ft)	Max Length (ft)	Max Height (ft)	Chargeless* (ft)
RXS				
9 & 12 MBH	4.92	65.6	49.2	32.8
15, 18, 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				
2MXS18NMVJU	4.92	164	49.2	98.4
3MXS24NMVJU	4.92	230	49.2	131.6
4MXS36NMVJU	4.92	230	49.2	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

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.

Piping Sizes

Indoor Unit	Outdoor Unit	Liquid (in)	Gas (in)
15 Series			
FTXN09NMVJU	RXN09NMVJU	Ø 1/4	Ø 3/8
FTXN12NMVJU	RXN12NMVJU	Ø 1/4	Ø 3/8
FTXN18NMVJU	RXN18NMVJU	Ø 1/4	Ø 1/2
FTXN24NMVJU	RXN24NMVJU	Ø 1/4	Ø 5/8
FTKN09NMVJU	RKN09NMVJU	Ø 1/4	Ø 3/8
FTKN12NMVJU	RKN12NMVJU	Ø 1/4	Ø 3/8
FTKN18NMVJU	RKN18NMVJU	Ø 1/4	Ø 1/2
FTKN24NMVJU	RKN24NMVJU	Ø 1/4	Ø 5/8
19 Series			
FTX09NMVJU	RX09NMVJU	Ø 1/4	Ø 3/8
FTX12NMVJU	RX12NMVJU	Ø 1/4	Ø 3/8
FTX18NMVJU	RX18NMVJU	Ø 1/4	Ø 1/2
FTX24NMVJU	RX24NMVJU	Ø 1/4	Ø 5/8
FTK09NMVJU	RK09NMVJU	Ø 1/4	Ø 3/8
FTK12NMVJU	RK12NMVJU	Ø 1/4	Ø 3/8
FTK18NMVJU	RK18NMVJU	Ø 1/4	Ø 1/2
FTK24NMVJU	RK24NMVJU	Ø 1/4	Ø 5/8
LV Series			
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	RXS24LVJU	Ø 1/4	Ø 5/8
FDXS09LVJU	RXS09LVJU	Ø 1/4	Ø 3/8
FDXS12LVJU	RXS12LVJU	Ø 1/4	Ø 3/8
Quaternity Series			
FTXG09HVJU	RXG09HVJU	Ø 1/4	Ø 3/8
FTXG12HVJU	RXG12HVJU	Ø 1/4	Ø 3/8
FTXG15HVJU	RXG15HVJU	Ø 1/4	Ø 3/8
MXS SERIES			
	2MXS18NMVJU	Ø 1/4 (2)	Ø 3/8 (1) Ø 1/2 (1)
	3MXS24NMVJU	Ø 1/4 (3)	Ø 3/8 (1) Ø 1/2 (1) Ø 5/8 (1)
	4MXS36NMVJU	Ø 1/4 (4)	Ø 3/8 (1) Ø 1/2 (2) Ø 5/8 (1)
	RMXS48LVJU	Ø 3/8	Ø 3/4

Piping Sizes

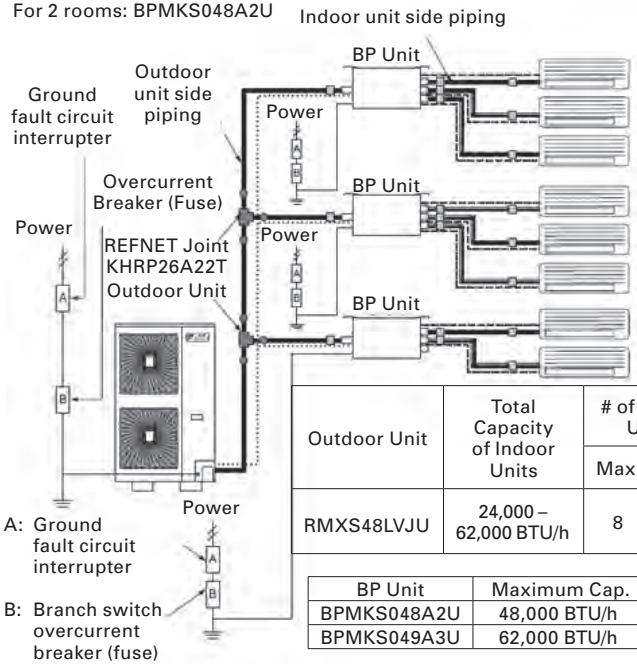
Outdoor Unit			
Heat Pump	**Cooling Only**	**Liquid (in)**	**Gas (in)**
RXS	RKS	Ø 3/8	Ø 5/8
RZQ	RZR	Ø 3/8	Ø 5/8

Indoor Unit		
Model Number	**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

System Layout

BP Unit model
For 3 rooms: BPMKS049A3U
For 2 rooms: BPMKS048A2U



Outdoor Unit	Total Capacity of Indoor Units	# of Indoor Units	
		Max.	Min.
RMXS48LVJU	24,000 – 62,000 BTU/h	8	2

BP Unit	Maximum Cap.
BPMKS048A2U	48,000 BTU/h
BPMKS049A3U	62,000 BTU/h

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 ≤ 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 ≤ 49 ft
Allowable height	Between outdoor and and IU	Difference in height	Difference in height between outdoor and indoor units ≤ 98 ft
	Between outdoor and BP units	Difference in height	Difference in height between outdoor and indoor units ≤ 98 ft
	Between BP and BP units	Difference in height	Difference in height between BP and BP units ≤ 49 ft
	Between IU and IU	Difference in height	Difference in height between indoor and indoor units ≤ 49 ft
Minimum allowable length			Pipe length between outdoor unit and first refrigerant branch kit (REFNET joint) ≥ 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

Operating Ranges

COOLING

SYSTEM	Indoor Intake Air Temperature (MINIMUM – MAXIMUM)	Outdoor Air Temperature (MINIMUM – MAXIMUM)
15&19 Series RXN, RKN, RX, RK	57°FWB (14°CWB), 73°FWB (23°CWB)	50°FDB (10°CDB), 115°FDB (46°CDB) 14°FDB (-10°CDB), 115°FDB (46°CDB)[1] 0°FDB (-17.8°CDB), 115°FDB (46°CDB)[2]
LV Series RXS_LV	57°FWB (14°CWB), 73°FWB (23°CWB)	50°FDB (10°CDB), 115°FDB (46°CDB) 14°FDB (-10°CDB), 115°FDB (46°CDB)[1] 0°FDB (-17.8°CDB), 115°FDB (46°CDB)[2]
Quaternity RXG_H)	59°FWB (15°CWB), 73°FWB (23°CWB)	14°FDB (-10°CDB), 109°FDB (42.8°CDB)
MXS	57°FWB (14°CWB), 73°FWB (23°CWB)	14°FDB (-10°CDB), 115°FDB (46°CDB)
RMXS	57°FWB (14°CWB), 73°FWB (23°CWB)	23°FDB (-5°CDB), 115°FDB (46°CDB)

HEATING

SYSTEM	Indoor Intake Air Temperature (MINIMUM – MAXIMUM)	Outdoor Air Temperature (MINIMUM – MAXIMUM)
15&19 Series RXN, RKN, RX, RK	50°FDB (10°CDB), 86°FDB (30°CDB)	5°FWB (-15°CWB), 75°FWB (24°CWB) -4°FWB (-20°CWB), 75°FWB (24°CWB)[3]
LV Series RXS_LCV	50°FDB (10°CDB), 86°FDB (30°CDB)	5°FWB (-15°CWB), 64°FWB (18°CWB) 0°FWB (-17.8°CWB), 64°FWB (18°CWB)[2]
Quaternity RXG_H)	50°FDB (10°CDB), 86°FDB (30°CDB)	-4°FWB (-20°CWB), 64°FWB (18°CWB)
MXS	57°FDB (14°CDB), 73°FDB (23°CDB)	5°FWB (-15°CWB), 75°FWB (24°CWB) -4°FWB (-20°CWB), 75°FWB (24°CWB)[3]
RMXS	57°FDB (14°CDB), 73°FDB (23°CDB)	5°FWB (-15°CWB), 60°FWB (15.5°CWB)

[1] Outdoor units operate at outdoor air intake temperature down to 14°FDB with a dipswitch or cut of a jumper. (Does not apply to RXN or RKN)

[2] Outdoor units operate at outdoor air intake temperature down to 0°FDB with the addition of a wind baffle. (Does not apply to RXN or RKN)

[3] Outdoor units operate at outdoor air intake temperature down to -4°FDB with the addition of an optional drain pan heater. (Does not apply to RXN and RKN)

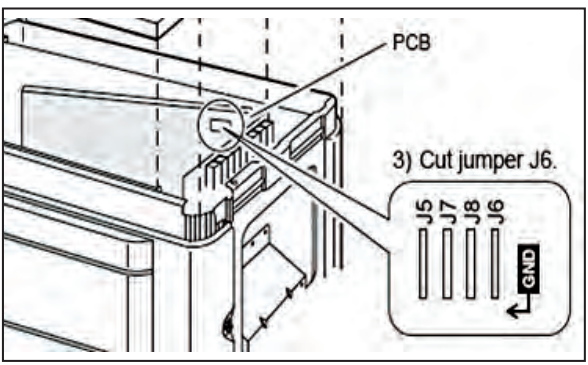
Low Ambient Cooling Operation

⚠WARNING – HIGH VOLTAGE

DISCONNECT ALL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

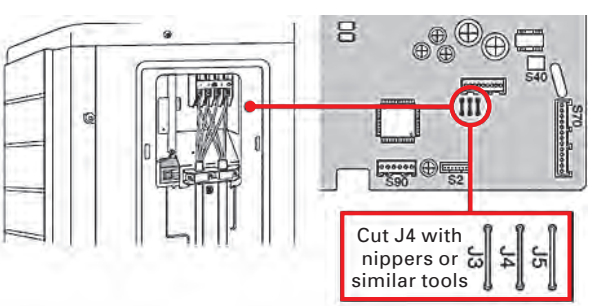
RK09-24 NMVJU, RX09-24 NMVJU, RXS15, 18LVJU

Cutting jumper 6 (J6) on the circuit board will expand the operation range down to 0°F (–17.8° CDB). However it will stop if the outdoor temperature drops below –4°F (–20°C) and start back up once the temperature rises again.



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.

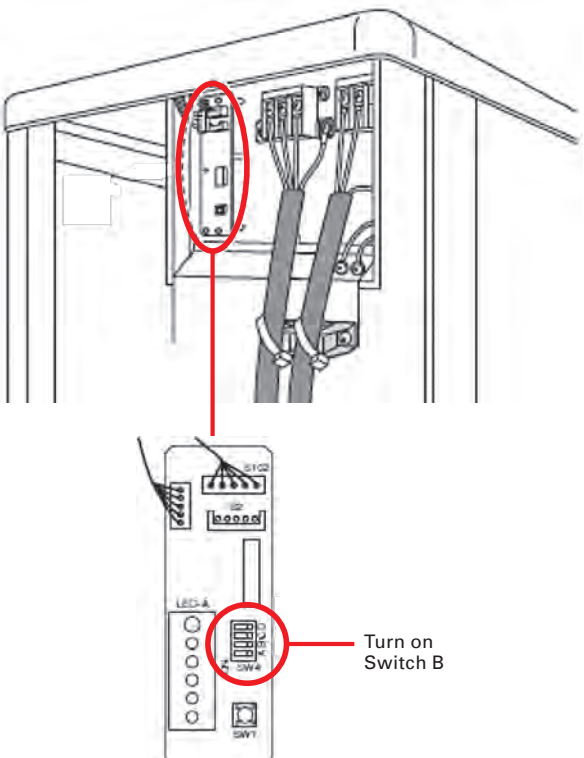


Low Ambient Cooling Operation

⚠WARNING – HIGH VOLTAGE
DISCONNECT ALL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT.
FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

RXS24, 30, 36 LVJU

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.



Operating Ranges

COOLING

SYSTEM	Indoor Intake Air Temperature (MINIMUM – MAXIMUM)	Outdoor Air Temperature (MINIMUM – MAXIMUM)
RXS_LV RKS_LV	57°FWB (14°CWB), 73°FWB (23°CWB)	50°FDB (10°CDB), 115°FDB (46°CDB) 14°FDB (-10°CDB), 115°FDB (46°CDB)[1] 0°FDB (-17.8°CDB), 115°FDB (46°CDB)[2] -40°FDB (-40°CDB), 115°FDB (46°CDB)[3]
RZQ & RZR	57°FWB (14°CWB), 77°FWB (25°CWB)	23°FDB (-5°CDB), 115°FDB (46°CDB) 0°FDB (-17.8°CDB), 115°FDB (46°CDB)

HEATING

SYSTEM	Indoor Intake Air Temperature (MINIMUM – MAXIMUM)	Outdoor Air Temperature (MINIMUM – MAXIMUM)
RXS	50°FDB (10°CDB), 86°FDB (30°CDB)	5°FDB (-15°CWB), 64°FWB (18°CWB)
		0°FDB (-17.8°CWB), 64°FWB (18°CWB)[2]
RZQ	59°FDB (15 CDB), 80°FDB (26.7 CDB)	0°FDB (-17.8°CWB), 60°FWB (15.5°CWB)

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

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

[3] RKS__LVJU Outdoor units operate at outdoor air intake temperature down to -40°FDB with the addition of a wind baffle and Ultra Low Ambient Kit.

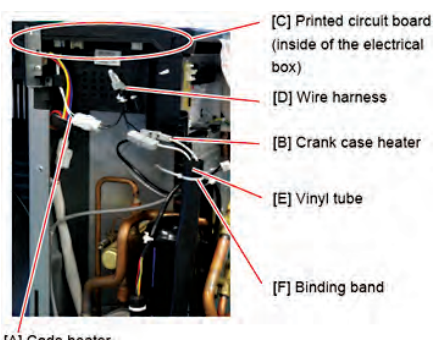
Ultra Low Ambient Operation

⚠WARNING – HIGH VOLTAGE
DISCONNECT ALL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

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.



	INDOOR		OUTDOOR		
	EWB	EDB	-40 (°FDB)		
	°F	°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 remove control commands	Inoperative
The heat pump or cooling only mode is selectable with the DIP switch of the remote controller	Remote controller malfunctioning

Easy installation and energy-efficient performance

from a world-leading HVAC manufacturer

COMFORT FOR LIFE

Daikin is a global innovator and provider of energy-efficient indoor comfort solutions. As the world's largest manufacturer of HVAC systems and refrigerants, Daikin offers a complete line of ductless heating and cooling systems.

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- Inverter technology performance delivers up to 26.1 SEER and 12.5 HSPF
- Intelligent Eye Occupancy Sensor (on select models)
- Quiet and consistent indoor comfort
- Fast, flexible installation for residential, commercial and industrial applications

For 90 years Daikin has been perfecting indoor comfort systems throughout the world.

Daikin provides innovative, premium-quality indoor climate management solutions to meet the changing needs of residential, commercial, and industrial customers.

Daikin: The Premium Brand industry leader

DAIKIN Daikin Industries, Ltd. (DIL) is a global Fortune 1000 company which celebrated its 90th anniversary in May 2014. The company is recognized as the largest HVAC (Heating, Ventilating, AirConditioning) manufacturer in the world. DIL is primarily engaged in developing indoor comfort products, 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.

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