

#### 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.

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### **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.

<sup>\*</sup>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

<sup>\*</sup>Compared to 14 SEER Unitary System







### 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

FAO / 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-Mounted**

#### **Ductless Models**



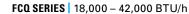
#### 2' X 2' CEILING CASSETTE

### **FFQ SERIES** 9,000 – 18,000 BTU/h

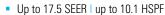
Heat Pump

- 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

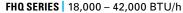


Heat Pump or Cooling Only



- 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



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.

### **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.





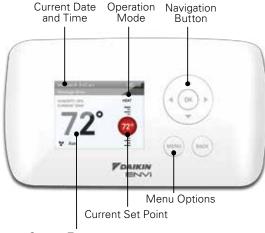
### Intelligent

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**



Current Temperature and Humidity

### **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

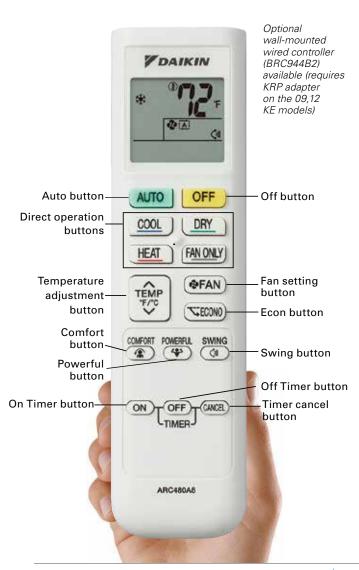


Want to make your room comfortable at the touch of a single button? No problem. Wall-mounted and slim-ducted units come with a user-friendly remote control featuring a minimalistic, modern design in a matte crystal-white finish that forms a perfect match with the indoor unit.

### **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



### **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

BRC1F73RF

BRC1F73RMF

### **Dual Setpoint Face Decals for Simplified Display**







BRC1E73RM2

BRC1E73RF2

BRC1E73RMF2

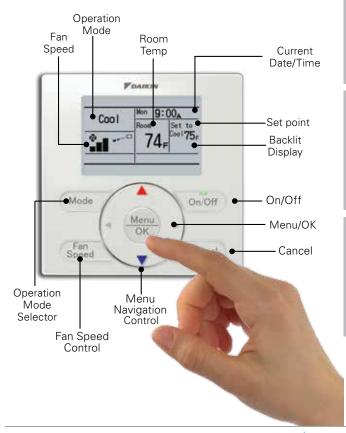
### **Features & Functions:**

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









### **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 ben	efits.
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- 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



<sup>\*</sup> Complete warranty details available from you 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



<sup>\*</sup>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 Ouick 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





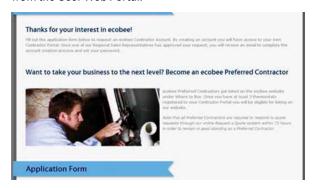
### **Become A Preferred Contractor**

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.



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**

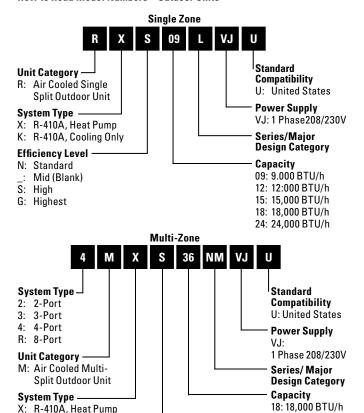


24: 24,000 BTU/h

36: 36,000 BTU/h

48: 48,000 BTU/h

#### 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

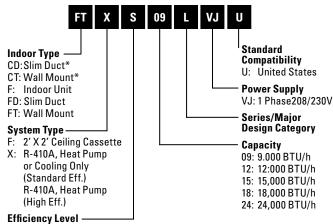
Efficiency Level -

S: High

**Ductless Split Systems** 

### **Nomenclature**

### How to Read Model Numbers – Indoor Units



G: Highest N: Standard

Q: R-410A, Heat Pump

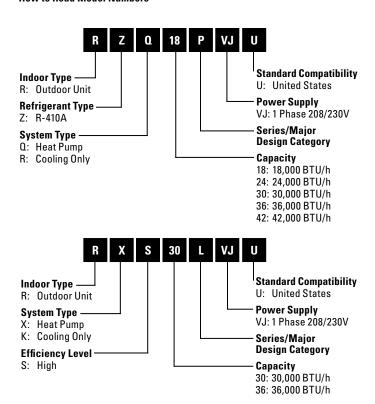
S: High

### 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

<sup>\*</sup>Compatible with multi-split MXS outdoor units only

#### **How to Read Model Numbers**



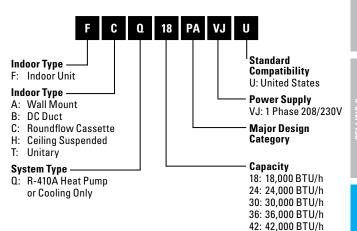
### SkyAir Systems (18,000 – 42,000 BTU/h)

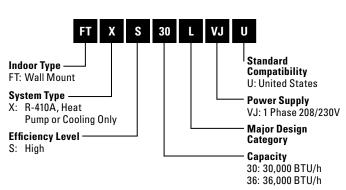
- For large residential and light commercial buildings
- Long piping lengths provide design flexibility
- Low ambient cooling operation down to 0 °F with optional -40 °F capabilities on select systems

**SkyAir Ductless System** 

#### **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 (R	lated)	BTU/h	9,000
Cooling Capacity (M	lin – Max)	BTU/h	4,400-10,200
Heating Capacity (R	ated)*	BTU/h	9,000
Heating Capacity (M	lin – Max)*	BTU/h	4,400-10,000
SEER / HSPF			15 / 8.2
COP/EER			3.6 / 10.3
Power Supply			208-230V / 1 Ph
Minimum Circuit Amps Heat Pump		Α	10.1
Minimum Circuit Am	ps Cooling Only	Α	7.9
Maximum Overcurr	ent Protection	Α	15
Liquid Piping Conne	ections (O.D.)	in.	1/4
Gas Piping Connect	ions (O.D.)	in.	3/8
Condensate Drain		in.	5/8
Max. Piping Length		ft.	49
Max. Piping Height		ft.	39
Indoor Dimensions	$(H \times W \times D)$	in.	11¼ x 30% x 8¾
Outdoor Dimension	s (H x W x D)	in.	21% x 26½ x 11%

<sup>\*</sup> 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 / 9.9	3.2 / 9.6	3.2 / 8.6
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
1/4	1/4	1/4
3/8	1/2	5/8
5/8	11/16	11/16
49	98.2	98.2
39	65.6	65.6
11¼ x 30¾ x 8¾	11% x 39 x 10%	11% x 39 x 10%
21% x 26½ x 11%	29 x 34¼ x 125%	29 x 34¼ x 125%

## **19 Series Specs**

#### **Wall-Mounted Ductless Heat Pump or Cooling Only**

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		Α	12.1
Maximum Overcui	rent Protection	Α	15
Liquid Piping Conr	nections (O.D.)	in.	1/4
Gas Piping Connec	ctions (O.D.)	in.	3/8
Condensate Drain		in.	5/8
Max. Piping Lengt	h	ft.	65.6
Max. Piping Height		ft.	49.2
Indoor Dimensions	s (H x W x D)	in.	11¼ x 30¾ x 8¾
Outdoor Dimensio	ns (H x W x D)	in.	21% x 26½ x 11%

<sup>\*</sup> Applicable to heat pump models only, refer to installation manual for more details.





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
1/4	1/4	1/4
3/8	1/2	5/8
5/8	<sup>11</sup> / <sub>16</sub>	11/16
65.6	98.2	98.2
49.2	65.6	65.6
11¼ x 30% x 8¾	11% x 39 x 10%	11% x 39 x 10%
21% x 26% x 11%	29 x 34¼ x 125⁄8	29 x 34¼ x 12%



## **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	Α	8.00
Maximum Overcurrent Protection	Α	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 31½ x 8 <sup>7</sup> / <sub>16</sub>
Outdoor Dimensions (H x W x D)	in.	21% x 30% x11%

<sup>\*</sup>Refer to installation manual for more details.



1.0 Ton	1.25 Ton	1.25 Ton 1.5 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
		13% x 41 <sup>5</sup> /16 x 9%	
	28 <sup>15</sup> / <sub>16</sub> x 32	2½ x 11 <sup>13</sup> / <sub>16</sub>	$30^{5}/_{16} \times 35^{7}/_{16} \times 125\%$

# **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	Α	8.00	8.75	
Maximum Overcurrent Protection	Α	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)	Indoor Dimensions (H x W x D) in.		7% x 27 <sup>9</sup> /16 x27 <sup>7</sup> /16	
Outdoor Dimensions (H x W x D)	in.	21% x 30% x11%		

<sup>\*</sup>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	Α	14.5	14.5	14.5
MOCP	Α	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	Α	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 <sup>1</sup> / <sub>32</sub> x 8 <sup>7</sup> / <sub>32</sub>	
Outdoor Dimensions (H x W x D)	in.	:	22% x 31 <sup>9</sup> / <sub>32</sub> x 11 <sup>7</sup> / <sub>32</sub>	

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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.

# **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	Α	15.8	18.7
Maximum Overcurrent Protection	Α	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 x125%	29 x 34¼ x 125⁄8
	Non- Ducted	18.9/12.5/10.7/4.1	17.9/12.7/12.5/4.6
SEER/HSPF/COP/EER	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

		2MXS18NMVJU	3MXS24NMVJU	4MXS36NMVJU	RMXS48LVJU
	CTXS07JVJU	х	х	х	x
	CTXS09HVJU	x	x	x	x
eq	CTXS12HVJU		x	x	x
Ę	CTXS07LVJU	x	x	x	x
Wall Mounted	FTXS09LVJU	x	х	х	x
Ē	FTXS12LVJU	х	x	x	x
š	FTXS15LVJU	x	х	х	x
	FTXS18LVJU		x	x	x
	FTXS24LVJU			х	x
	FDXS09LVJU	х	х	х	х
, ĕ	FDXS12LVJU	х	х	х	х
ne c	CDXS15LVJU	x	x	x	x
Duct- Connected	CDXS18LVJU		х	х	x
3	CDXS24LVJU			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	$52^{15}/_{16} \times 35^{7}/_{16} \times 12\frac{5}{8}$
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





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
Φ	FFQ09LVJU	x	x	x	x
2x2 Cassett	FFQ12LVJU	x	x	x	x
ass	FFQ15LVJU	x	x	x	x
ပ	FFQ18LVJU		x	x	x
loor nding	FVXS09NVJU	x	х	х	х
Floo tand	FVXS12NVJU	x	x	х	x
St.	FVXS18NVJU		x	x	x



# **MXS Specs**

#### **Indoor Units**

Indoor Model#	Wall-Mounted Units			
Heating Capacity (Nominal)   BTU/h   8,500   12,000	Indoor Model#		CTXS07LVJU	FTXS09LVJU
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.         11½ x31½ x8²/1₅         11⁵/₅x 31½ x8²/1₅           Slim-Duct Units           Indoor Model#         FDXS09LVJU           Rated Capacity Class         BTU/h         9,000           External Static Pressure         "W.G.           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.         7½ x 27°/1₅ x 24²/1₅           2' X 2' Ceiling Cassette Units         Indoor Model#         FFQ09LVJU           Cooling Capacity (Nominal)         BTU/h         11,100           Heating Capacity (Nominal)         BTU/h         11,100           Liquid Piping Connection (O.D.)         in.         Ø 3/8           Condensate Drain         in.         Ø 1-1/32           Indoor Dimensions (H x W x D)         in.         Ø 1/4	Cooling Capacity (Nominal)	BTU/h	7,000	9,000
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.         11½ x31½ x8²/1₅         11⁵/₅x 31½ x8²/1₅           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 3/8           Condensate Drain         in.         Ø 1/4           Gas Piping Connection (O.D.)         in.         Ø 1-1/32           Indoor Dimensions (H x W x D)         in.         7½ x 27°/1₅x 24²/1₅           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 3/8           Condensate Drain         in.         Ø 1-1/32           Indoor Dimensions (H x W x D)         in.         Ø 1/4           Gas Piping Capacity (Nominal)         BTU/h         9,000	Heating Capacity (Nominal)	BTU/h	8,500	12,000
Indoor Dimensions (H x W x D)   In.	Liquid Piping Connection (O.D.)	in.	Ø 1/4	Ø 1/4
Indoor Dimensions (H x W x D)   in.   11½x31½x87/16   115/sx31½x87/16   Slim-Duct Units	Gas Piping Connection (O.D.)	in.	Ø 3/8	Ø 3/8
Slim-Duct Units   Indoor Model#   FDXS09LVJU	Condensate Drain	in.	Ø 5/8	Ø 5/8
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.         7½ x 27³/16 x 24³/16           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 1/4           Condensate Drain         in.         Ø 1-1/32           Indoor Dimensions (H x W x D)         in.         Ø 1/4 x x 22½ x 22½           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	Indoor Dimensions (H x W x D)	in.	11% x31½x8 <sup>7</sup> / <sub>16</sub>	$11^{5}/8 \times 31\% \times 8^{7}/16$
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 1-1/32           Condensate Drain         in.         Ø 1-1/32           Indoor Dimensions (H x W x D)         in.         7% x27³/₁₅x24³/₁₅           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 3/8           Condensate Drain         in.         Ø 1-1/32           Indoor Dimensions (H x W x D)         in.         Ø 1-1/32           Indoor Dimensions (H x W x D)         in.         Ø 1-1/32           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	Slim-Duct Units			
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% x27³/1₅x24³/1₅           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.         Ø 1-1/32           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 3/8	Indoor Model#			FDXS09LVJU
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% x27°/₁₅x24″/₁₅           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.         Ø 1-1/32           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 3/8	Rated Capacity Class	BTU/h		9,000
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% x27³/16 x24³/16           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.         11½x22½x22½           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 3/8	External Static Pressure	"W.G.		0.12
Condensate Drain         in.         Ø 1-1/32           Indoor Dimensions (H x W x D)         in.         7% x27°/16 x24√/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.         11½x22½x22½           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 3/8	Liquid Piping Connection (O.D.)	in.		Ø 1/4
Indoor Dimensions (H x W x D)   in.   7% x 27°/16x 244°/16	Gas Piping Connection (O.D.)	in.		Ø 3/8
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.         11½x22½x22½           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	Condensate Drain	in.		Ø 1-1/32
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.         11½x22½x22½           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.		$7\% \times 27\% \times 24\% = 7\% \times 24\% = 7\% \times 24\% \times 24\% = 7\% \times 24\% \times 24\% = 7\% \times 24\% \times 24\%$
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.         11½x22½x22½           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	2' X 2' Ceiling Cassette Units			
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.         11½x22½x22½           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 Model#			FFQ09LVJU
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.         11½x22½x22½           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	Cooling Capacity (Nominal)	BTU/h		9,500
Gas Piping Connection (O.D.)         in.         Ø 3/8           Condensate Drain         in.         Ø 1-1/32           Indoor Dimensions (H x W x D)         in.         11½x22½x22½           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	Heating Capacity (Nominal)	BTU/h		11,100
Condensate Drain         in.         Ø 1-1/32           Indoor Dimensions (H x W x D)         in.         11½x22½x22½           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	Liquid Piping Connection (O.D.)	in.		Ø 1/4
Indoor Dimensions (H x W x D)         in.         11⅓x22⅓x22⅓           FIOUR 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	Gas Piping Connection (O.D.)	in.		Ø 3/8
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	Condensate Drain	in.		Ø 1-1/32
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.		11¼ x22% x22%
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	Floor Standing Units			
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				FVXS09NVJU
Liquid Piping Connection (O.D.)         in.         Ø 1/4           Gas Piping Connection (O.D.)         in.         Ø 3/8           Condensate Drain         in.         Ø 1	Cooling Capacity (Nominal)	BTU/h		9,000
Gas Piping Connection (O.D.) in. Ø 3/8 Condensate Drain in. Ø 1	Heating Capacity (Nominal)	BTU/h		12,000
Condensate Drain in. Ø 1	Liquid Piping Connection (O.D.)	in.		Ø 1/4
	Gas Piping Connection (O.D.)	in.		Ø 3/8
Indoor Dimensions (H x W x D) in. 23\% x27\% x8\%	Condensate Drain	in.		Ø 1
. ,	Indoor Dimensions (H x W x D)	in.		23% x27½x8¼



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 <sup>7</sup> / <sub>16</sub> x 31 <sup>5</sup> / <sub>16</sub> 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 27 <sup>9</sup> / <sub>16</sub> x24 <sup>7</sup> / <sub>16</sub>		7% x 35 <sup>7</sup> / <sub>16</sub> x 24 <sup>7</sup> / <sub>16</sub>	

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 22% x 22%

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
23% x 27½ x 8¼	23% x 27½ x 8¼

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% x 4	41% 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% x 4	41% x 9
Outdoor Dimensions (H x W x D)	in.	30 <sup>5</sup> / <sub>16</sub> x 35	5 <sup>7</sup> /16 x 12%

<sup>\*</sup>Available on Heat Pump models only

SkyAir

## **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	Α	19.5	19.5
Maximum Overcurrent Protection	Α	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% x 47	7¼ x 9 <sup>7</sup> / <sub>16</sub>
Outdoor Dimensions (H x W x D)	in.	38 <sup>15</sup> / <sub>16</sub> x	37 x 12%
*A:labla an Haat D			

<sup>\*</sup>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 <sup>13</sup> / <sub>16</sub> x 39% x 27 <sup>9</sup> / <sub>16</sub>
Outdoor Dimensions (H x W x D)	in.	30 <sup>5</sup> / <sub>16</sub> x 35 <sup>7</sup> / <sub>16</sub> x 12 <sup>5</sup> / <sub>8</sub>

<sup>\*</sup>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 0.4	0 (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 <sup>13</sup> / <sub>16</sub> x 5	51/8 x 27 <sup>9</sup> /16
		52 <sup>15</sup> / <sub>16</sub> x 3	5 <sup>7</sup> / <sub>16</sub> x 12 %

## **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.	$9^{11}/_{16} \times 33^{1}/_{16} \times 33^{1}/_{16}$
Outdoor Dimensions (H x W x D)	in.	30 <sup>5</sup> / <sub>16</sub> x 35 <sup>7</sup> / <sub>16</sub> x 125/ <sub>8</sub>

<sup>\*</sup>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 <sup>5</sup> / <sub>16</sub> x 33	1/ <sub>16</sub> x 33 <sup>1</sup> / <sub>16</sub>
		52 <sup>15</sup> / <sub>16</sub> x 35	5 <sup>7</sup> /16 x 125/8

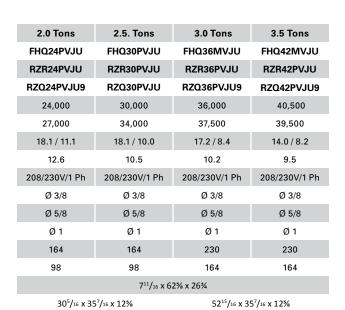


## **FHQ Series**

#### **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 <sup>11</sup> / <sub>16</sub> x 625% x 263/4
Outdoor Dimensions (H x W x D)	in.	30 <sup>5</sup> / <sub>16</sub> x 35 <sup>7</sup> / <sub>16</sub> x 125/ <sub>8</sub>

<sup>\*</sup>Available on Heat Pump models only



## **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% x 22 x 26
Outdoor Dimensions (H x W x D)	in.	30 <sup>5</sup> / <sub>16</sub> x 35 <sup>7</sup> / <sub>16</sub> x 12 <sup>5</sup> / <sub>8</sub>

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 <sup>15</sup> / <sub>16</sub> x 35 <sup>7</sup> / <sub>16</sub> x 12%			

## **Accessories**



Line Sets								
Model Number	Size (in.)	Length(ft.)	Insulation (in.)					
LS14381210DMSF	$1/4 \times 3/8$	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	$1/4 \times 1/2$	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 Desc	ription						
Controller Options		•						
BRC7E830	Wireless Re	mote Control k	Cit					
BRC944B2-A08	Wired Remote Controller - Kit Reference - see next 3 items							
BRC944B2	Wired Controller - Part 1 of BRC944B2-A08 Kit							
BRCW901A08	Wired Cont BRC944B2-	roller Cord - Pa A08 Kit	rt 2 of					
KRP980B1		daptor for BRC uired for the 09	944B2-A08 Kit - 0.12 KEVJU)					
DACA- BRCW901P10	Remote Con	troller Cable, Pl	enum Rated, 10ft					
DACA- BRCW901P25	Remote Con	troller Cable, Pl	enum Rated, 25ft					
DACA-TS1-1	Daikin ENVi	Intelligent The	ermostat Kit					
Filter Replacements								
KAF974B42S Quaternity Wallmount	Air-purifyin	g Filter Set						
<b>KAF970A45</b> 15 & 19 Series Wallmount: 18, 24	Air-purifyin	g filter WITH fra	ame					
KAF970A46 15 & 19 Series Wallmount: 09, 12 LV Series Wallmount: 09, 12, 15, 18, 24	Air-purifyin	g filter WITHOL	JT frame					
KAF968B42 Floor Standing FVXS**NVJU	Air-purifyin	g filter without	frame					



## **Accessories** (continued)

Item #	Item Description
<b>Operating Range B</b>	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)
KPW063A4	Air direction adjustment grille
Condensate Pump	s & 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 Brack	ets
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

Adj Wall Bracket W/Support Bar -

 $17-3/4 \times 16-1/2 \times 31-1/2 - 242lb$  cap

DACA-WB-1



## **Accessories** (continued)

Item #	Item Description									
Mini-Split Pads - P	lastic Pad									
EL1838-3	Elite Plastic Pad 18x38x3									
EL2436-3	Elite Plastic Pad 24x36x3									
Mini-Split Pads - U	Itralite - 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 - Fl	orida 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									





## **Compatibility Matrix**

			Outdoor Unit														
DΛ	IKIN DUCTLESS		Single Split Systems														
SYSTEM COMPATIBILITY MATRIX		RXN09NMVJU	RXN12NMVJU	RXN18NMVJU	RXN24NMVJU	RKN09NMVJU	RKN12NMVJU	RKN18NMVJU	RKN24NMVJU	R X09NMVJU	RX12NMVJU	RX18NMVJU	RX24NMVJU	RK09NMVJU	RK12NMVJU	RK18NMVJU	RK24NMVJU
	FTXN09NMVJU	•															Т
	FTXN12NMVJU		•														
	FTXN18NMVJU			•													
	FTXN24NMVJU				•												
	FTKN09NMVJU					•											
	FTKN12NMVJU						•										
	FTKN18NMVJU							•									
_	FTKN24NMV.III								•								
1 =	FTX09NMVJU									•							
Split Systems (Single & Multi)	FTX12NMVJU										•						
જ	FTX18NMVJU											•					
불	FTX24NMVJU												•				
<u>.</u>	FTK09NMVJU												-				
8	FTK12NMVJU														•		
E	FTK18NMVJU																
l š	FTK24NMVJU																•
Ś	FTXS09LVJU	_															-
≒	FTXS12LVJU																
S	FTXS15LVJU	_															
	FTXS18LVJU																
_	FTXS24LVJU	_															
三	FTXG09HVJU																
뒽	FTXG12HVJU																
ndoor Unit	FTXG15HVJU																
≛∣	FDXS09LVJU																
	FDXS12LVJU																
	CTXS07JVJU	1															
	CTXS09HVJU																
_	071/040111/111	_															
≧	CTXS07LVJU																
0	CDXS15LVJU																
Į	CDXS18LVJU																
Split Systems (Multi Only)	CDXS24LVJU																
l su	FFQ09LVJU																
ļ ž	FFQ12LVJU																
Se	FFQ15LVJU																
≝	FFQ18LVJU																
S	FVXS09NVJU																
	FVXS12NVJU																
	FVXS18NVJU																
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Wind Baffle	KPW063A4		Ť			_	_							Ť	Ť		
=	KPW937C4			Ť	•			•	•			Ť	Ť			•	ľ
∣;≣	KPW937C4 KPW945A4	•	•			•	•			•	•			•	•		

## **Ductless Split Systems**

	Outdoor Unit											Controls				
	Single Split Systems							ı	Vlult	i-Sp	lit	Controls				
RXG09LVJU	RXG12LVJU	RXG15LVJU	RXS09LVJU	RXS12LVJU	RXS15LVJU	RXS18LVJU	RXS24LVJU	2MXS18NMVJU	3MXS24NMVJU III	4MXS36NMVJU	RMXS48LVJU	BRC1E72	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*
Α	07, 09, 12	07, 09, 12	07, 09, 12
В	# # # 07 09 12 15	# # # 07 09 12 15 18	# # # 07 09 12 15 18
С		# # # 07 09 12 15 18	# # # 07 03 12 15 18
D			0 0 1 1 1 1 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**

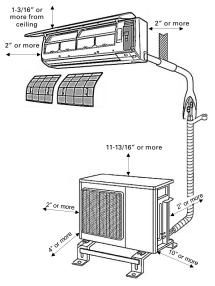
SkyAir

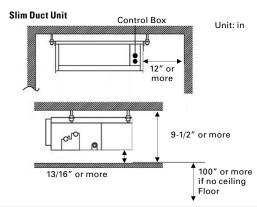
					О	utd	oor	Un	it			
DAIKIN DUCTLESS SYSTEM COMPATIBILITY MATRIX		Ou	tdo	or U	Init							
		RXSLVJU	RZQPVJU(9)	RKSLVJU	RZRPVJU	BRC1E72	BRC2A71	BRC4C82	BRC7E83	BRC944	BRCE818	DACA-TS1-1
	FTXS_LVJU	•		•						•		•
	FAQ_PVJU		•		•	•	•				•	
Unit	FBQ_PVJU		•		•	•	•	•				
Indoor Unit	FCQ_PAVJU		•		•	•	•					
<u>u</u>	FHQ_MVJU		•		•	•			•			
	FHQ_PVJU		•		•	•	•		•			
	FHQ_PBVJU		•			•						
nd fle	KPW5E112	•		•								
Wind Baffle	KPW5E80		•		•							

## 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.

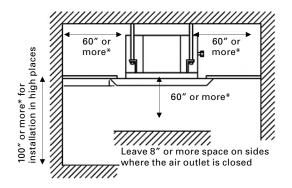




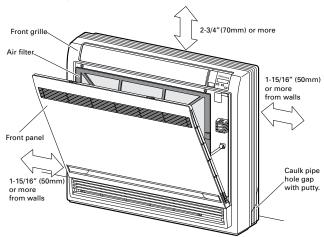
## System Clearances Ductless Split Systems

#### **Indoor Units**

#### 2' X 2' Ceiling Cassette

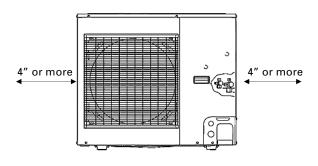


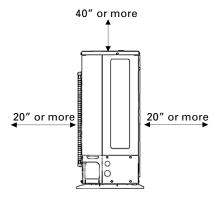
#### Floor Standing



#### **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.



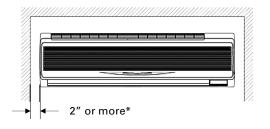


SkyAir

## **System Clearances**

#### **Indoor Units**

#### Wall Mounted Unit (FAQ)



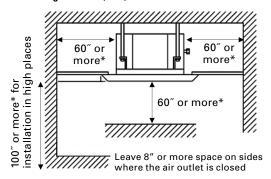
# DC Ducted Unit (FBQ) 60" or more\* Ceiling

Floor

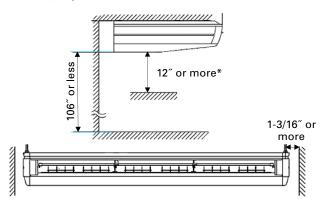
## **System Clearances**

#### **Indoor Units**

#### 3'X 3' Ceiling Cassette (FCQ)



#### Ceiling Suspended (FHQ)

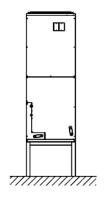


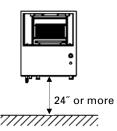
## **System Clearances**

**Indoor Units** 

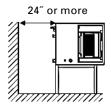
### Inverter Ducted (FTQ)

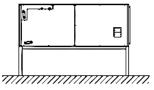
### **Vertical Installation**





### **Horizontal Installation**





## Electrical Requirements Ductless Split Systems

Indoor Unit	Outdoor Unit	Minimum Circuit Amps (A)	Maximum Overcurrent Protection (A)
	15 Ser		
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 Ser	ries	
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 Sei	ries	
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 SE	RIES	
	2MXS18NMVJU	15.8	20
	3MXS24NMVJU	18.7	20
	4MXS36NMVJU	19.75	20
	RMXS48LVJU	27.0	30.0

## **Electrical Requirements**

SkyAir

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 fro	om OU
FTXS36LVJU	Powered fro	m 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**

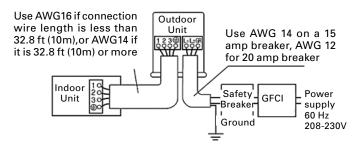
DISCONNECT ALL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

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

### Wiring Procedure

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

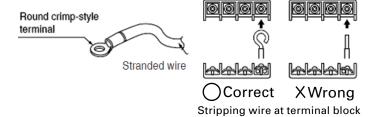
- 1. Strip the insulation from the wire (3/4inch (20mm)).
- Connect the connection wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. We recommend a flathead screwdriver be used.



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.



Multi-Zone

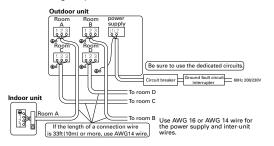
### Wiring

#### **↑** 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).
- 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.

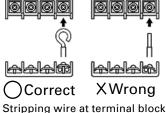


In case using stranded wires is unavoidable, make sure to install the round crimp-style terminals on the tip.

Place the round crimpstyle terminals on the wires up to the covered part and secure.



Perform curling when using a single core wire.



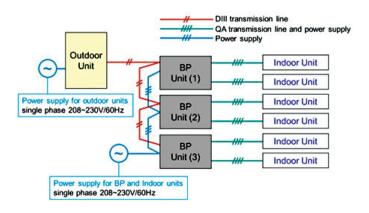
Wiring 8-Zone Multi

### ⚠ 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.

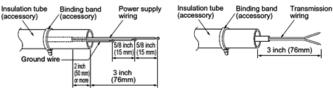
### 8-Zone Multi-Split System

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.

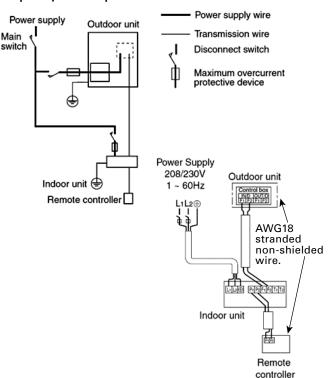
### Wiring

### **↑** 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**



<sup>\*</sup>Refer to each system Installation Manual for detailed wiring instructions.



### **Piping Lengths**

### **Ductless Split Systems**

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 (Ibs)	
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) $\times$ 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**

### **Ductless Split Systems**

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 Ser	ies				
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 Ser	ies				
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 SE	RIES				
	2MXS18NMVJU	Ø 1/4 (2)	Ø 3/8 (2)			
	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 (1) Ø 5/8 (2)			
	RMXS48LVJU	Ø 3/8	Ø 3/4			

## **Ductless Piping Sizes**

Outdoor Unit						
Heat Pump Cooling Only Liquid (in) Gas						
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

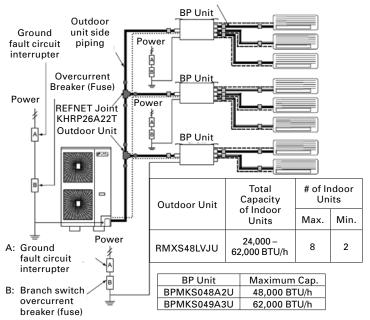
<sup>\*</sup>See service bulletin for additional details



### **BP Unit model**

For 3 rooms: BPMKS049A3U For 2 rooms: BPMKS048A2U

or 2 rooms: BPMKS048A2U Indoor unit side piping



 Power supply line (3 wires) (60 Hz 208/230V)	
(60 HZ 208/230V)	 Piping
 Transmission line (2 wires)	Brazing connection
 Power supply and transmission line (4 wires)	Flare connection

Piping Re	quirements		
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	



#### COOLING

OCCENTA				
	Indoor Intake Air Temperature	Outdoor Air Temperature		
SYSTEM	(MINIMUM – MAXIMUM)	(MINIMUM – MAXIMUM)		
15&19 Series	57°FWB (14°CWB), 73°FWB (23°CWB)	50°FDB (10°CDB), 115°FDB (46°CDB)		
RXN, RKN, RX, RK		14°FDB (-10°CDB), 115°FDB (46°CDB) <sup>1</sup>		
		0°FDB (-17.8°CDB), 115°FDB (46°CDB) <sup>2</sup>		
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) <sup>1</sup>		
		0°FDB (-17.8°CDB), 115°FDB (46°CDB) <sup>2</sup>		
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

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

<sup>&</sup>lt;sup>1</sup> 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)

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)

<sup>&</sup>lt;sup>3</sup> 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 RX and RK)

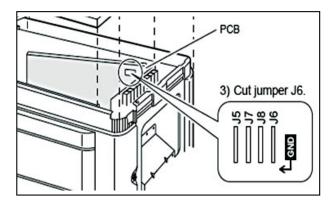
## **Low Ambient Cooling Operation**

### **↑** 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.

### RX\*, RK\*

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.



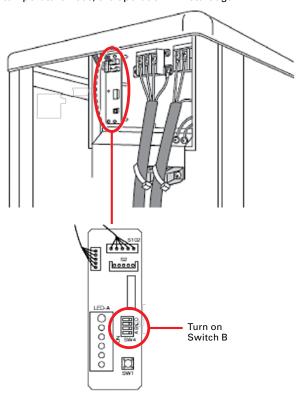
### **Low Ambient Cooling Operation**

### **⚠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.

### RXS\*\*LVJU

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



## **Operating Ranges**

	COOLING		
	Indoor Intake Air Temperature	Outdoor Air Temperature	
SYSTEM	(MINIMUM – MAXIMUM)	(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) <sup>1</sup>	
		0°FDB (-17.8°CDB), 115°FDB (46°CDB) <sup>2</sup>	
		-40°FDB (-40°CDB), 115°FDB (46°CDB) <sup>3</sup>	
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		
	Indoor Intake Air Temperature	Outdoor Air Temperature	
SYSTEM	(MINIMUM – MAXIMUM)	(MINIMUM – MAXIMUM)	
RXS	50°FDB (10°CDB), 86°FDB (30°CDB)	5°FDB (-15°CDB), 64°FWB (18°CWB)	
		0°FDB (-17.8°CDB), 64°FWB (18°CWB) <sup>2</sup>	
RZQ	59°FDB (15 CDB), 80°FDB (26.7 CDB)	0°FDB (-17.8°CDB), 60°FWB (15.5°CWB)	

<sup>1</sup>Outdoor units operate at outdoor air intake temperature down to 14°FDB with a dipswitch. Refer to installation manual for details.



 $<sup>^2</sup>$ Outdoor units operate at outdoor air intake temperature down to  $0^\circ FDB$  with the addition of a wind baffle.

<sup>&</sup>lt;sup>3</sup> 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**

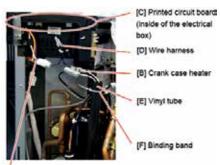
### **↑** WARNING – HIGH VOLTAGE

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.
- 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 vinvl 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.
- 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.
- Check whether the unit is properly operating by conducting the forced cooling operation.



[A] Code heater

	INDOOR		OUTDOOR		
	EWB EDB		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

- Turn power on to outdoor unit and measure the supply voltage. Make sure it falls in the specified range.
- 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.
- 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.
- Press "TEMP" button (2 locations) and "MODE" button at the same time
- 3 Press "MODF" button twice
- 4. ("7--" will appear on the display to indicate that trial operation mode is selected)
- 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



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