



GET OUR **2023**
Performance
Pack & SAVE
UP TO **\$100**

Purchase our recommended installation kit along with a new A/C or Heat Pump System and receive an INSTANT REBATE up to \$100*.

*Speed Up Your Installation
Have everything you need when you need it!*



Residential systems only. Offer expires 6/30/2023. Components vary by system type.

Visit www.uri.com for more product information

UR UNITED REFRIGERATION INC.

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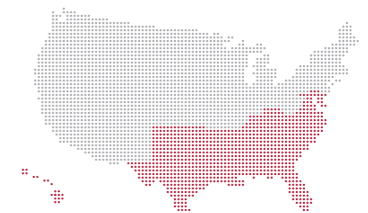
Arcoaire
Air Conditioning & Heating

2023

RESIDENTIAL COMFORT SYSTEMS



Arcoaire



SOUTHERN REGION

January, 2023

2023 RESIDENTIAL PRODUCT CATALOG

What's New in 2023?

Arcoaire - Single Zone Ductless Systems

Wall Mount Single Zone up to 40 SEER (Page 45)

NEEP Cold Climate Heat Pumps (Page 41)

Up to 100% Rated Heating Capacity @ 4F

Match with Traditional Ducted AHU or Furnace/Coil
(Interface Kit Required)
or Ductless Indoor Units

Arcoaire Multi Zone Systems Page 43

NEEP Cold Climate Heat Pumps

Up to 100% Rated Heating Capacity @ 4F

Mix/Match Traditional Ducted AHU or Furnace/Coil
(Interface Kit Required)
& Ductless Indoor Units

Arcoaire Crossover - Non Communicating Inverter Heat Pump (Page 39)

Automatically Adjusts Compressor Speed Based on Super Heat

Match with a Standard AHU or Furnace/Coil

Communicating AHU Optional

Use a Standard 24V Thermostat

Communicating Control Optional

Utilize the Expansion Device on the Indoor Unit

Insulate Suction Line Only

2023 Regulatory Changes Page 9

Welded Aluminum Condenser Coils Page 13

Power V Coil Technology Page 63

ADP Traditional "A" Coils Page 65

New Furnace Motor Technology Page 73

New Consumer Financing Partner Page 5

Residential Product Book Southern Region

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Thermostat



Line Set



Refrigerant Caps



Junction Box



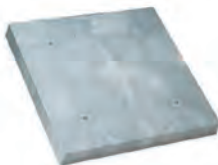
Box Cover



Receptacle



Wall Switch



Pad



Pump Stand



Whip



Disconnect



Surge Protector



Gas Cock



PVC Fittings



EZ-Trap



Drain Pan



Drain Pan Switch



Mounting Blocks

Residential systems only. Offer expires 6/30/2023. Components vary by system type.

Visit www.uri.com for more product information

UR UNITED REFRIGERATION INC.

Performance Pack Installation Kits

KIT COMPONENTS	SAVE \$75			SAVE \$100		SAVE \$50	
	Arcoaire & Thermal Zone			Arcoaire Thermal Zone & Bosch*	Daikin		Arcoaire Thermal Zone & Bosch*
	CONDENSING UNIT & COIL	CONDENSING UNIT & AHU	CONDENSING UNIT COIL & FURNACE	HEAT PUMP SYSTEM	DUCTLESS SYSTEM		RESIDENTIAL PACKAGE UNIT
					Sky Air & Multi Zone	Single Zone	
Pad	●	●	●	●	●	●	● OPTIONAL
Thermostat	●	●	●	●		●	●
Whip	●	●	●	●	●	●	●
Disconnect	● OPTIONAL	● OPTIONAL	● OPTIONAL	● OPTIONAL	● OPTIONAL	● OPTIONAL	● OPTIONAL
Line Set	●	●	●	●	W/ POWER & CONTROL WIRE	W/ POWER & CONTROL WIRE	
EZ-Trap	●	●	●	●			
PVC Fittings	●	●	●	●			●
Refrigerant Caps	●	●	●	●	●	●	
Gas Cock			●				
Junction Box			●				
Wall Switch			●				
Receptacle			●				
Box Cover			●				
Mounting Block		VERTICAL ONLY	VERTICAL ONLY	VERTICAL ONLY			
Drain Pan		HORIZONTAL ONLY	HORIZONTAL ONLY	HORIZONTAL ONLY			
Drain Pan Switch		HORIZONTAL ONLY	HORIZONTAL ONLY	HORIZONTAL ONLY			
Pump Stand		● OPTIONAL		● OPTIONAL			
Surge Protector	● Inverter Systems Only	● Inverter Systems Only	● Inverter Systems Only	● Inverter Systems Only	●	●	● Inverter Systems Only

Components vary by system type. Not all components are required. Limited substitutions are permitted, ask your local branch for details.

*Bosch air source heat pumps only.



BUNDLE PROMOTION VALID January 1, 2023 TO JUNE 30, 2023

United Refrigeration, Inc.'s standard terms and conditions apply. Not responsible for typographic errors. Prices and specifications subject to change without notice.

Flyr-Per Pack/Bndl-071222

Visit www.uri.com for more product information



Dealer Rewards



URHVAC Dealers earn points on every (qualifying brand) purchase of HVAC equipment at United Refrigeration.

Redeem your points for:

- Tools
- Fantastic trips
- Small appliances
- TVs
- Computers and accessories
- Golf clubs
- and more



It's simple to get started.

- ✓ New Dealers: Register @ URHVAC.com
- ✓ Points are awarded monthly, after the annual minimum purchase level is achieved.

For complete rules, refer to the Dealer Rewards page at URHVAC.com



The rewards points are only redeemable through the rewards site found at URHVAC.com

Participating Brands



Flyr-Dlr Rewards 090822

Dealer Marketing Toolbox



The Dealer Marketing Toolbox contains a variety of customized marketing materials to promote your company, and drive new customers to you.

- Direct Mail Postcards
- Dealer Focused Brochures
- Lawn Signs
- Labels and Magnets
- Door Hangars
- Custom Apparel – t-shirts, work shirts, hats, hoodies, sweatshirts, Under Armour® and more!



Getting started is simple.

Log into www.urhvac.com. Select the Dealer Marketing Toolbox link, and start shopping, start marketing and grow your business.



New Dealers: Register @ URHVAC.com

Active URHVAC Dealers may utilize the Dealer Marketing Toolbox after the annual minimum purchase level is achieved. For complete rules, refer to the Dealer Marketing Toolbox page at URHVAC.com.



Flyr-Dlr Mrktg TB 091322

Consumer Financing



Let's face it, nobody saves their money and dreams about a new heating system. That is why the most important tool you can have at your disposal is consumer financing.

We make it easy with the Finance of America benji program. It's flexible, affordable, and easy to use.

- Personal training to help you understand how the program works, and use it effectively.
- Quick approval for most consumers, and Second Look Programs for consumers who need it.
- There is no credit risk to the dealer. You get paid by Finance of America, and the consumer pays them.
- Close more sales, and close them faster.
- Improve your profit margin. Consumers who finance often choose high efficiency systems.
- Improve your cash flow, get paid in full, as soon as the job is done.

PROGRAM DETAILS

Dealers who register through and are active in the URHVAC program automatically receive a **2 point discount on all promotional programs.**

Fixed Payment Loans with 5, 7, 10 & 12 year terms at a variety of interest rates, allow the consumer to customize their payment.

Offer your customers 6, 12 or 18 month No Payments / No Interest programs

Go to URHVAC.com to register

 **UNITED REFRIGERATION INC.**

Flyr-Finance-Dlr-091322

HVAC Extended Service Plans



Close more sales and retain your customer up to 10 years by offering Extended Service Plans when you install a new Arcoaire Residential Comfort System.



JB Warranties Premium Protection Plans™ make it easy and include:



Easy-to-use Online Program

Submit purchase agreements and manage claims online, anytime. Plus a team of experts to help you with any questions.



Affordable Pricing

The most competitive pricing in the industry.



Fast Claims

Receive claim reimbursements quickly, within 15 days.



Sign up with JB Warranties under United Refrigeration, and receive special program offers.

Click the link at URHVAC.com to register  **UNITED REFRIGERATION INC.**

Flyr-Ext Serv Pin-Dlr-072522

Dealer Websites



Grow your business with a mobile-friendly website.

If you don't have a website, you're missing a big opportunity. Among the fastest growing home services search terms is "HVAC Repair near me" with 84% of consumers not having one company in mind. So make sure your listing is found!

If you already have a website, is it mobile-friendly?

In today's mobile world a static website designed for desktop computers is no longer effective. Key information regarding your business needs to be easy to find and easy to navigate from any device.

Mobile searchers have a high purchasing intent, with 78% of local searches on mobile devices leading to a purchase within 24 hours.

Improve your online presence!

The URHVAC Dealer Program can provide you with your own personalized, branded website to help you connect with your local market.

- Make it easy for prospective customers to find you with Search Engine Optimization
- You choose the (URHVAC) brands and products that you want to promote
- Ensure your website is accessible and friendly on mobile devices
- Dealer Locators link directly to your site
- Our experts handle the design and hosting for worry-free efficiency



For complete details, go to URHVAC.com

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UNITED REFRIGERATION INC.

Arcoaire Elite Dealer Program



Arcoaire
Air Conditioning & Heating



Become a Arcoaire Elite Dealer and set yourself apart from HVAC Contractors

QUALIFIERS

- Liability insurance and Workers' Compensation insurance (where applicable)
- Minimum annual Arcoaire equipment purchases: \$75,000
- Arcoaire represents at least 70% of branded HVAC sales
- An active website that advertises Arcoaire
- Offer financing to customers through an accredited financial institution
- Promote the Arcoaire brand / do not promote competing brands
- 12 hours of distributor training or 50% of technicians NATE® certified

PROGRAM BENEFITS

- Exclusive Networking Forum
- Free Website Build
- SEO Website Audit
- Monthly Social Media Content
- Prioritization of TSA service calls
- Extended Warranty (No Hassle)
- Preferred Financing Rates
- Incremental Volume Rebate
- Marketing Funds and more.

For more details on the Arcoaire Elite Dealer Program, contact your local United Refrigeration Branch.

Arcoaire
Air Conditioning & Heating
Enduring Performance.

 **UNITED REFRIGERATION INC.**

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Flyr - Arco Elite Dir - 090822

2023 Regulatory Overview

AIR CONDITIONER RATINGS

The new 2023 minimum efficiency standards for air conditioners continue to follow the regional borders established in 2015: North, Southeast and Southwest. Additionally, the Southwest includes an EER/EER2 requirement. SEER and EER are ratings tested under the pre-2023 test procedure while SEER2 and EER2 are tested under the 2023 test procedure with higher external static pressures as detailed below.

Split System Air Conditioners – 2023 Regional Standards [†]						
System Type	North Region		Southeast Region		Southwest Region	
	New SEER	New SEER2	New SEER	New SEER2	New SEER	New SEER2
Split System ACs (AC < 45K Btu/h)	14.0 SEER	13.4 SEER2	15.0 SEER	14.3 SEER2	15.0 SEER and 12.2 EER*	14.3 SEER2 and 11.7 EER2**
Split System ACs (AC ≥ 45K Btu/h)	14.0 SEER	13.4 SEER2	14.5 SEER	13.8 SEER2	14.5 SEER and 11.7 EER*	13.8 SEER2 and 11.2 EER2**

* 10.2 EER if SEER ≥ 16.0 SEER ** 9.8 EER2 if SEER2 ≥ 15.2 SEER2

Sell-Through Deadlines

For the North Region, any 13.0 SEER AC built before January 1, 2023, **can still be installed** on or after January 1, 2023.

For the Southeast and Southwest Regions, any AC that does not meet the above requirements **cannot be installed** on or after January 1, 2023.

HEAT PUMP RATINGS

Heat pump minimum efficiency requirements follow national standards. In 2023, the new minimum efficiency standards for heat pumps will increase by 1.0 SEER to 15.0 SEER. Split-system heat pumps must also achieve a minimum of 8.8 HSPF.

Split System Heat Pump – 2023 National Standards [†]		
System Type	National Efficiency Standard	
	New SEER & HSPF	New SEER2 & HSPF2
Split System HPs	15.0 SEER & 8.8 HSPF	14.3 SEER2 & 7.5 HSPF2

Sell-Through Deadline

Any 14.0 SEER heat pump built before January 1, 2023, **can still be installed** on or after January 1, 2023.



SMALL PACKAGED PRODUCT RATINGS

Small Packaged Products will not increase in minimum efficiency from 14.0 SEER and 8.0 HSPF, but will be required to comply with the new test procedure.

Packaged Systems – 2023 National Standards [†]				
System Type	National Efficiency Standard		Southwest Region	
	New SEER & HSPF	New SEER2 & HSPF2	New EER	New EER2
Packaged ACs & Gas/Electric ACs	14.0 SEER	13.4 SEER2	11.0 EER	10.6 EER2
Heat Pumps & Dual-Fuel HPs	14.0 SEER & 8.0 HSPF	13.4 SEER2 & 6.7 HSPF2	N/A	N/A

Sell-Through Deadline

Any 14.0 SEER SPP unit built before January 1, 2023, **can still be installed** on or after January 1, 2023.

[†] SEER, EER, and HSPF values shown are based on the current test procedure and are for reference only. Beginning January 2023, products must comply with the SEER2, EER2 and HSPF2 values developed using the 2023 test procedure.

Protect Your Business

TRAINING

So how can you prepare to safeguard your business? The first step is training. As 2023 draws nearer, the 2023 minimum efficiency standards will be easily accessible on the Internet, including the DOE web site. Arcoaire will also be creating training materials and continually communicating with you as we get closer to the deadline. We will make every effort to ensure that you are being supplied with region-appropriate products that meet all efficiency requirements for your area. However, it is important for you to protect your business by learning the efficiency standards for your region and placing product orders accordingly.



Visit MLCtraining.com today and search 2023 in the online course catalog and video section to access available training.



FUTURE RECORD KEEPING

Beginning in 2023, be prepared for record keeping. Dealer/contractors, distributors, and manufacturers will all be required to track the model and serial numbers of equipment sold, delivered and installed, as well as delivery addresses and installation locations. This includes cash sales. These records will protect you in the event of a DOE investigation. If 2015 is any indication for 2023, they will need to be kept for up to 60 months, depending on the type of business:

- 48 months for dealers / contractors
- 54 months for distributors
- 60 months for manufacturers

In summary, treat this information like you would treat your tax records, just to be safe.

MAKE THE COMMITMENT

Remember, we ALL have a stake in this. As your trusted supplier, we will invest the time and resources to make compliance as easy as possible. That includes training, updated product labeling, and continued communications about this topic.

In the end, we encourage you to make the commitment as well. Start preparing now by getting up to speed on the upcoming 2023 regulations and taking advantage of your resources. Visit HVACpartners.com for the very latest on the 2023 regulatory requirements and product information.



Sell Through & EnergyGuide Information

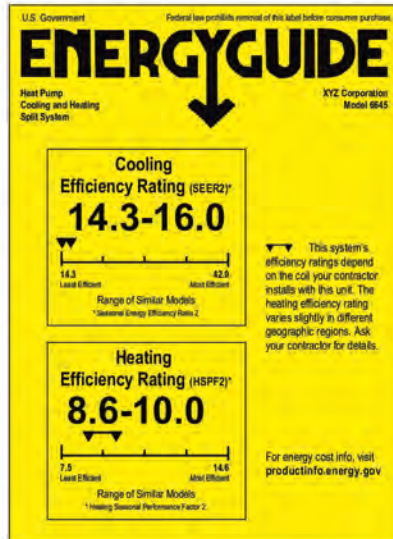
New 2023 EnergyGuide Label Samples

The Federal Trade Commission requires energy labeling for major home appliances and other consumer products to help consumers compare the energy usage and costs of competing models. As a result of the DOE's new minimum efficiencies and testing requirements, the FTC published rule amendments updating the EnergyGuide labels with new descriptors – specifically the SEER2, EER2 and HSPF2 ratings.

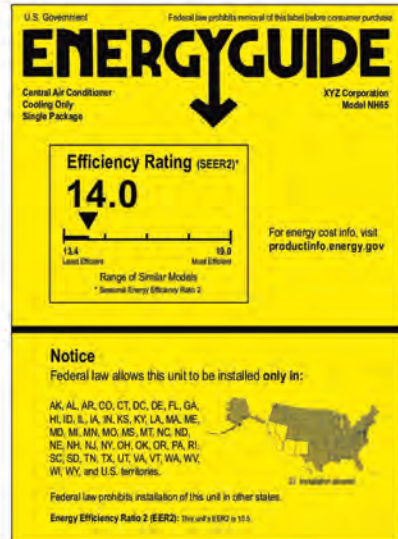
Consequently, all 2023-compliant products will include a new EnergyGuide label with the SEER2, EER2 and HSPF2 ratings clearly noted as applicable. Examples of what the new Split System Air Conditioner, Split System Heat Pump, and Small Package Product labels will look like can be found below. 2023-compliant products that begin shipping in calendar year 2022 will have these new labels.



Split System Air Conditioner Sample Label



Split System Heat Pump Sample Label



Small Packaged Product Sample Label

DOE Enforcement

THE COSTS – AND CONSEQUENCES – OF NON-COMPLIANCE

As with the 2015 standards, we anticipate penalties for non-compliance in 2023 as well. The DOE has been aggressively enforcing efficiency standards in a number of industries, including HVAC, and violations can be costly.

- Dealers and contractors caught installing non-compliant equipment will be forced to replace the equipment at their cost. Repeat violators can be put on a national do-not-sell list.
- Distributors are subject to the same do-not-sell penalty if they knowingly and repeatedly supply non-compliant equipment to contractors who install that equipment in violation of the regional minimum.
- Any distributor or contractor identified as a routine violator will be prohibited from purchasing any of the seven classes of products identified in the Code of Federal Regulations, 10-CFR-430.32.
- Manufacturers knowingly selling non-compliant equipment will also face stiff fines.

We anticipate the DOE will allow easy and confidential reporting of suspected violations, and will make every effort to investigate credible complaints. In addition, manufacturers will be obligated to report any potential violations we identify or become aware of to the DOE within 15 days of discovery.



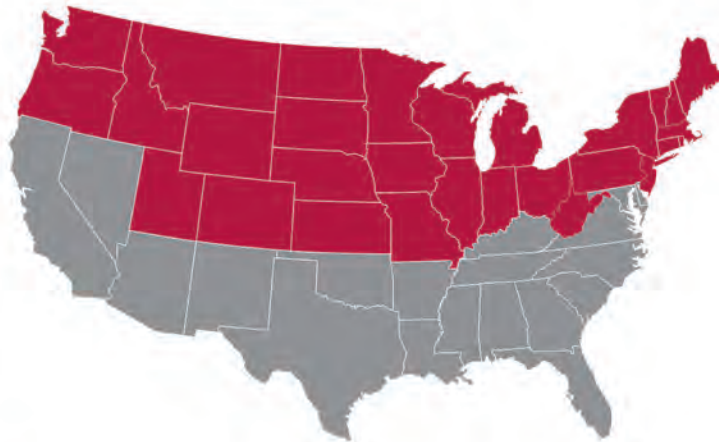
In 2015, the DOE cracked down with big fines for violators, including a \$1.2 million fine to HVAC manufacturers.

Sell Through & EnergyGuide Information

2023 Sell Through Requirements

For the North region, any 13.0 SEER AC built before January 1, 2023 can still be installed on or after January 1, 2023. For the Southeast and Southwest regions, any AC that does not meet the above requirements CANNOT be installed on or after January 1, 2023. All Split System Heat Pumps and Small Package Product built before January 1, 2023 can still be installed on or after January 1, 2023.

	North	South
Air Conditioner	Date of Manufacture	Date of Install
Heat Pump	Date of Manufacture	Date of Manufacture
SPP	Date of Manufacture	Date of Manufacture



Inventory Management of Pre-2023 Units

In order to be certain you understand the Sell Through deadlines, ask yourself the question *Can I install an air conditioner that was manufactured before 2023 after the January 1, 2023, deadline?* The chart below will help you get your answer depending on the region where your business is located. Be sure to check the EnergyGuide labels on your current air conditioner inventory against this chart as you begin your phase in/phase out process.

SOUTHWEST REGION
No, unless EnergyGuide label says:

AC	SEER	EER
Split < 45k BTU	15.0	12.2
Split ≥ 45k BTU	14.5	11.7

NORTH REGION
Yes

SOUTHEAST REGION
No, unless EnergyGuide label says:

AC	SEER
Split < 45k BTU	15.0
Split ≥ 45k BTU	14.5

Welded Aluminum Technology

NEW OUTDOOR UNITS WITH WELDED ALUMINUM OUTDOOR COIL TECHNOLOGY

Another exciting product improvement rolling out by 2023 will be our unique and innovative welded aluminum outdoor coils. Building upon years of experience with indoor aluminum coil technology, we have been developing a new line of outdoor condensing units around our patent-pending, welded aluminum coil technology.

These new welded aluminum coils will deliver improved corrosion resistance while satisfying future performance requirements. As the HVAC industry leader, we are the only manufacturer currently offering this groundbreaking coil technology in residential outdoor products.

How is our aluminum coil technology better than our competitors?

Our coil tubing starts out as a flat sheet of aluminum. Zinc cladding is applied in a process known as roll bonding. The aluminum and zinc alloys are hot rolled together, reheated, and put through a series of sealing passes to create a metallurgical bond. A single composite material with significantly enhanced corrosion resistance is the result.

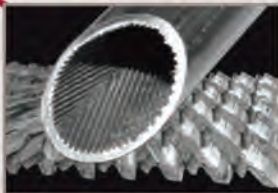


How our aluminum coil is made

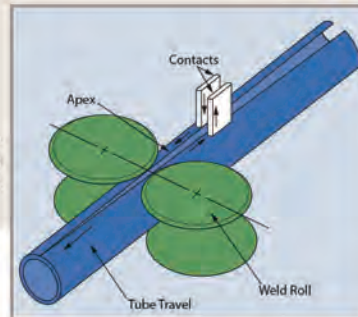
The zinc-cladded aluminum sheeting is then embossed with a herringbone pattern which creates angled multi-directional channels on the inside of the tubing. These angled enhancements increase turbulent refrigerant flow to improve heat transfer efficiency.

Based on a similar process we use today on our copper tubing, the aluminum is shaped into a tube and welded along one edge. This entire process creates aluminum tubing with a wall that's 71% thicker than current copper tubing for exceptional strength. It also allows us to emboss the internal wall of the tube as noted above.

Interior view of welded aluminum coil



The welding process



Our aluminum tube coils are unlike any other in the industry.

We are not the first manufacturer to hit the market with aluminum outdoor coils, but we may be the only one offering coils of this unique design. Rather than designing the units using dissimilar metals, ours include high-strength, zinc-coated aluminum parts to complement our zinc-cladded welded aluminum tubing. These products will experience significantly reduced galvanic corrosion and the resulting fin degradation.

Welded Aluminum Technology

WELDED VS. EXTRUDED ALUMINUM TUBING

While many of our competitors are offering aluminum outdoor coil products, many of their models use extruded aluminum which has limited and less effective internal wall enhancements, higher pressure drop, and is not capable of zinc cladding.



Extruded Aluminum Tube from Competitors

- Limited internal wall enhancements
- Higher pressure drop
- No zinc cladding



Welded Aluminum Tube from Arcoaire

- Multi-directional internal enhancements
- Less sensitive to pressure drop
- Zinc cladding for corrosion protection

ARE THERE OTHER ENHANCEMENTS TO THE NEW OUTDOOR UNITS?

Additional improvements to our welded aluminum coil air conditioners and heat pumps include:

- New fin material
- Top isolators
- Aluminum liquid distributor and vapor header with copper stubs
- Aluminum tube sheets, hairpins, return bends, crossovers and defrost switch

Many of the aluminum components are sprayed with a zinc coating, and any copper-to-aluminum joints on the unit are protected with a special heat shrink wrap. The entire package has been designed for enhanced performance, lasting corrosion resistance, reduced unit weight, and an easier transition for installers and service technicians.

LET'S TALK ABOUT INSTALLATION

We do our best to re-design products with our technicians in mind. When transitioning from traditional copper coil units to the new aluminum coil models, technicians will appreciate the many similarities to current installation processes. For example:

We have maintained the same or similar footprint on most units, so there will be minimal need to replace the pad.

Because our aluminum coil is 50% lighter than copper coils, the new models will be easier to handle and transport.

There is no copper-to-aluminum brazing required in the field – aluminum to copper brazing takes place in our factory and these connections are treated with a protective heat shrink wrap.

WELDED ALUMINUM: BUILDING ON EXPERIENCE

Our outdoor products with welded aluminum coil technology are the next step in delivering outstanding quality, reliability and efficient indoor home comfort. They are a big part of how aluminum is reshaping our product lineup, and another reason why we say we are all in on aluminum.

Key Messaging



New government regulations will be changing products throughout the entire HVAC industry, affecting manufacturers of residential cooling and heating products. Here's a brief outline of what's happening:

Dealer Messaging

- Every six years the U.S. Department of Energy (DOE) reanalyzes the effect of energy usage, sets minimum efficiency requirements and manages the testing standards by which those efficiencies are measured. For 2023, the DOE is increasing the minimum efficiencies for central air conditioners and heat pumps. The testing procedures for determining those efficiencies will change as well.
- The DOE's new minimum efficiency standards and testing procedures will be enforced for all HVAC manufacturers starting on January 1, 2023.
- To meet these new standards, 100% of current products across all tiers will need to be re-rated using the new test procedures.
- The majority of product tiers and tonnages will be available on or before January 1, 2023.
- We are instituting a phased roll out, with products launching ahead of deadline starting early 2022, to ensure readiness before January 1, 2023.
- In addition, our regulatory-ready products are being redesigned with an expected change in refrigerant to minimize future product transitions. We expect the new refrigerant requirements to take effect in 2025.

Consumer Messaging

- Dependent on what area of the country a homeowner lives determines what air conditioners they can buy. That's because the DOE has put in place new minimum efficiency standards by region.
 - The DOE regional breakdown by state:
 - **Southwest:** Arizona, California, Nevada, and New Mexico
 - **South:** Alabama, Arkansas, Delaware, Florida, Georgia, Hawaii, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, the District of Columbia, and the U.S. territories
 - **North:** The remainder of the United States
- Homeowners buying new Arcoaire 2023-compliant systems will benefit from:
 - A higher energy-efficient system leading to potentially reduced monthly utility bills.
 - Enhanced comfort benefits such as more consistent indoor temperatures and improved humidity control.

Pre-2023

2023



HVA9
Up to 19.0 SEER
Five-Stage

HCA7
Up to 17.0 SEER
Two-Stage

HSA6
Up to 16.0 SEER
Single-Stage

HSA5
Up to 15.5 SEER
Single-Stage

HVA9
Up to 19.0 SEER2*
Five-Stage

H4A7T
Up to 17.0 SEER2
Two-Stage

Ion™ System



H4A6S
Up to 16.5 SEER2
Single-Stage

* Based on preliminary ratings - subject to change.

N4A7
Up to 17.5 SEER
Two-Stage

N4A6
15.0 - 17.0 SEER
Single-Stage

N4A7T Performance System
Up to 17.0 SEER2
Two-Stage
Includes Coastal Model



NXA6
15.0 - 17.0 SEER
Single-Stage

N4A5
14.0 - 15.0 SEER
Single-Stage

NXA4
14.0 - 15.0 SEER
Single-Stage

N4A4
Coastal Model
Single-Stage

DLCU
Inverter A/C



N4A5S
Up to 16.5 SEER2
Single-Stage
Includes Coastal Model



N4A3
13.0 - 14.0 SEER
Single-Stage (North Region Only)

N4A4S
Up to 16.5 SEER2
Single-Stage



NH4A4
14.0 - 15.0 SEER
Single-Stage, Horizontal Discharge

S4A5S
Up to 16.5 SEER2
Single-Stage, Horizontal Discharge



R4A5
Up to 17.0 SEER
Single-Stage

R4A5S
Up to 16.5 SEER2
Single-Stage

R-Series



R4A4
Up to 16.0 SEER
Single-Stage



R4A3
13.0-15.0 SEER
Single-Stage (North Region Only)

R4A4S
Up to 16.0 SEER2
Single-Stage

Note: There will be no changes to the three-phase products.

Air Conditioner	1	2	3	4	5	6	7	8	9	10	11	12
Title	Brand & Airflow Type	Refrigerant Type	OD Type	Efficiency	Design Type	Nominal Cooling Capacity	Feature	Voltage	Special Feature	Region	Major Series	
Product #/Letter	N	4	A	4	S	18	A	K	A	N	A	
Descriptions	N = Non-Brand Specific Vertical S = Horizontal Discharge H = Ion System R = R-Series	4 = R-410A	A = AC	4 = North Compliant 5 = Southwest Compliant 6 = 16 SEER2 7 = 17 SEER2 8 = 18 SEER2 9 = 19 SEER2 0 = 20 SEER2 1 = 21 SEER2	S = Single-Stage T = Two-Stage V = Variable-Speed	18 = 1.5 tons 24/25 = 2 tons 30 = 2.5 tons 36/37 = 3 tons 42/43 = 3.5 tons 48/49 = 4 tons 60/61 = 5 tons	A = Standard C = Coastal	K = 208-230-1 or 208/230-1 H = 208-230-3 or 208/230-3 L = 460-3 S = 575-3 W = 230-1-50	A = Standard	E = Standard Southeast AC N = Standard North AC W = Standard Southwest AC	A - Z	

Note: Ion™ System HVA9 follows the pre-2023 nomenclature and meets the 2023 regulatory requirements.

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

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AP-006-AR-00



UNITED REFRIGERATION INC.



2023 SPLIT SYSTEM COMPLIANCE FOR EXISTING INVENTORY

New DOE Minimum Efficiency Requirements

Beginning January 1, 2023, the DOE is increasing the minimum efficiencies for central air conditioners and heat pumps.

- For air conditioners in the North, the minimum efficiency will increase from 13.0 to 14.0 SEER under today's M test procedure
- For air conditioners in the South, the minimum efficiency will increase from 14.0 to 15.0 SEER under today's M test procedure
- The national heat pump minimum efficiency will increase from 14.0 to 15.0 SEER under today's M test procedure

Compliance for Existing Split System AC Inventory

Split system AC equipment manufactured prior to December 31, 2022, **can be installed** in the South or Southwest Regions after January 1, 2023, if the units meet the following requirements:



- 1 If the model is discontinued by Arcoaire, the least efficient coil-only SEER rating, as listed on the EnergyGuide label, must be greater than or equal to the following:

< 45,000 Btu	≥ 45,000 Btu
15.0 SEER	14.5 SEER
If the EnergyGuide label includes a range for the least efficient SEER rating, the lower SEER rating should be used	
SEER ratings sourced from Federal Register Vol. 82, No. 4, page 1615	

- 2 If the model will continue to be sold by Arcoaire after January 1, 2023, existing inventory can be sold if its EnergyGuide label shows a least efficient SEER rating that meets the requirements in the table above and the active published SEER2 rating exceeds 14.3.

Note: Arcoaire is updating EnergyGuide labels on these products before the compliance date to minimize the amount of inventory that carries over into 2023 with Appendix M EnergyGuide labels.

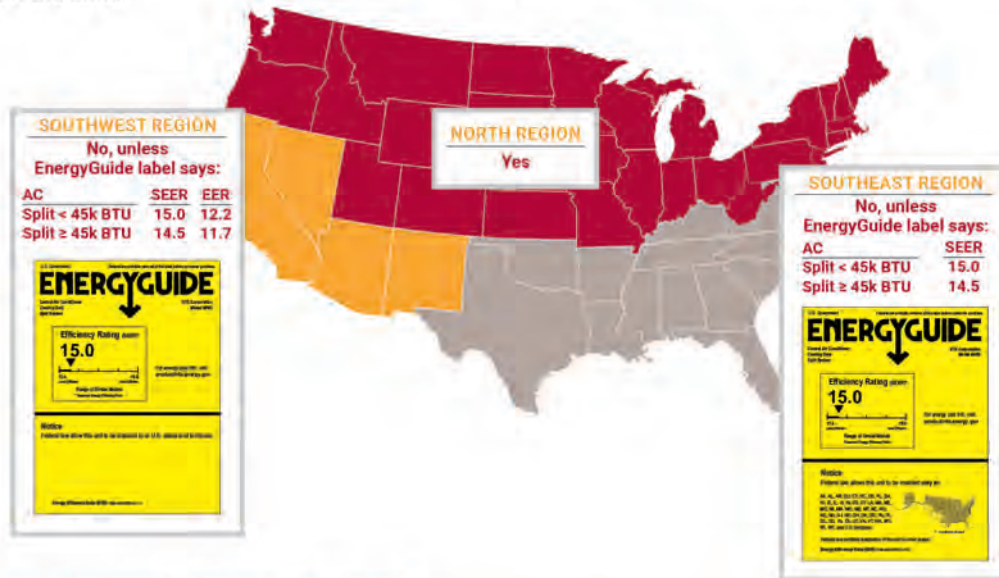
- 3 In the Southwest region, the equipment must also meet the following EER requirements:

> 15.0 but < 16.0 SEER		≥ 16.0 SEER
< 45,000 Btu 12.2 EER	≥ 45,000 Btu 11.7 EER	10.2 EER

Note: For additional information, visit <https://www.energy.gov/gc/legal-resources/office-assistant-general-counsel-enforcement/regional-standards-enforcement>

Can I install an air conditioner that was manufactured before 2023 after the January 1, 2023, deadline?

The chart below will help you get your answer depending on the region where your business is located. Check the EnergyGuide labels on your current air conditioner inventory against this chart and be sure to look for the lowest coil-only SEER rating on the label.



Existing Model Sell Through Eligibility in the South

	Pre-2023 Model	Installation After January 1, 2023		
	Arcoaire	Southeast	Southwest	North
Deluxe	HVA9**	Yes*	Yes*	Yes
	HCA7	No	No	Yes
	HSA6	No	No	Yes
	HSA5	No	No	Yes
Mid	N4A7	No	No	Yes
	NH4A4	No	No	Yes
	N4A6	No	No	Yes
	NXA6	No	No	Yes
	N4A5	No	No	Yes
	N4A4	No	No	Yes
R-Series	NXA4	No	No	Yes
	N4A3	No	No	Yes
	R4A5	No	No	Yes
	R4A4	No	No	Yes
	R4A3	No	No	Yes

* Note: Arcoaire is updating EnergyGuide labels on these products before the compliance date to minimize the amount of inventory that carries into 2023 with Appendix M EnergyGuide labels.

** Odd sizes qualify for the SW; Even sizes qualify for the SE and N.

We are **#2023READY** and we want you to be too.
Visit HVACpartners.com or contact your Arcoaire sales representative for the very latest information.

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AP-005-AR-00
9/2022

A Proud Member of the Carrier Family



UNITED REFRIGERATION INC.



R4A5S Single Stage A/C Value Series



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

REFRIGERATION CIRCUIT

- Scroll Compressors on all models
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - Approximately 50% Lighter than Copper Coils
- Filter Drier Supplied for Field Installation

EASY TO INSTALL & SERVICE

- Factory Charged w/ R410A Refrigerant
- Easy Access Service Valves & External Service Ports
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Pre Painted / Galvanized Steel Cabinet
- Coated Hail Guard Coil Protection
- Internal Pressure Relief Valve & Internal Thermal Overload

FACTORY LIMITED WARRANTY

- Residential:
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts

MODEL COMPATABILITY - STANDARD 24V THERMOSTAT

AHU	Std	VSB	Front Rtn	Celling		
	FJMA4X Pg. 52	FVM4X Pg. 53	FMA4PX Pg. 61	FMU/FMC Pg. 62		
Coil	Tube/Fin "A" Coil				Arcoaire & Mortex Mobile Home	
	ADP	Arcoaire				
	Cased Up Flow	Cased Multi	Uncased	Cased Vertical		
GG	EAM4X	EAA4X	EHD4X	EVD4X	EVM4X	EMA4X
Pg. 65	Pg. 69	Pg. 70	Pg. 71	Pg. 67	Pg. 68	Pg. 72
Gas Furnace	80% AFUE		92% AFUE		96% AFUE	
	1 H/1 C	1 H/2 C	1 H/1 C	1 H/1 C	1 H/1 C	1 H/2 C
	MCT	VCT	MCT	MCT	VCT	VCT
	N80MSN Pg. 75	N80VSL Pg. 76	N92MSN Pg. 81	N96MSN Pg. 82	N96VSN Pg. 83	N96VSN Pg. 83
OIL Furnace	Up Flow			Low Boy		
	EC	VSB	EC	VSB	EC	VSB
	OMF	OMV	OLR	OLV	OLR	OLV
Pg. 91	Pg. 92	Pg. 93	Pg. 94	Pg. 93	Pg. 94	Pg. 94

UNIT PERFORMANCE DATA

Model Number	Size (tons)	SEER 2 Up To***	Sound Rating	MOP	Width x Depth in.	Height in.	Weight lbs.	Line Set
R4A5S18AKAWA	1½	16	75/75*	20	25-3/4 x 25-3/4	28-11/16	112/125	3/8 - 3/4
R4A5S24AKAWA	2	16	73/73*	20	25-3/4 x 25-3/4	35-1/2	122/136	3/8 - 3/4
R4A5S30AKAWA	2½	16	73/72*	25	31-3/16 x 31-3/16	35-1/16	143/161	3/8 - 3/4
R4A5S36AKAWA	3	16	75/75*	25	31-3/16 x 31-3/16	38-7/16	150/168	3/8 - 7/8
R4A5S42AKAWA	3½	16	76/74*	50	31-3/16 x 31-3/16	31-11/16	181/198	3/8 - 7/8
R4A5S48AKAWA	4	15	76/73*	50	31-3/16 x 31-3/16	31-11/16	181/198	3/8 - 7/8
R4A5S49AKAWA	4	16	76/73*	40	35 x 35	45-11/16	248/272	3/8 - 7/8
R4A5S60AKAWA	5	15	76/73*	50	31-3/16 x 31-3/16	38-7/16	195/214	3/8 - 1 1/8**
R4A5S61AKAWA	5	16	75/73*	50	35 x 35	45-11/16	195/214	3/8 - 1-1/8**

*w/ optional sound shield

** Suction Line Connection is 7/8

*** Actual AHRI system rating is determined by the furnace/coil or AHU match.

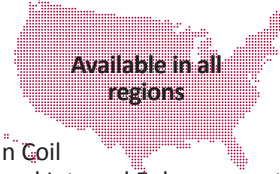
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UNITED REFRIGERATION INC.



N4A5S Single Stage A/C Performance Series



REFRIGERATION CIRCUIT

- Scroll Compressors on all models
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - Approximately 50% Lighter than Copper Coils
- Filter Drier Supplied for Field Installation

EASY TO INSTALL & SERVICE

- Factory Charged w/ R410A Refrigerant
- Easy Access Service Valves & External Service Ports
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ Baked on Powder Coat Paint
- Coated Hail Guard Coil Protection
- Coated Cabinet Screws
- Post Painted (black) Coil Fins
- Internal Pressure Relief Valve & Internal Thermal Overload

FACTORY LIMITED WARRANTY

- Residential:
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

MODEL COMPATABILITY - STANDARD 24V THERMOSTAT

AHU	Std	VSB	Front Rtn	Celling			
	FJMA4X Pg. 52	FVM4X Pg. 53	FMA4PX Pg. 61	FMU/FMC Pg. 62			
Coil	Tube/Fin "A" Coil				Power V	Arcoaire & Mortex Mobile Home	
	ADP Cased Up Flow	Arcoaire		Cased Vertical	Cased Multi		
	GG Pg. 65	EAM4X Pg. 69	EAA4X Pg. 70	EHD4X Pg. 71	EVD4X Pg. 67	EVM4X Pg. 68	EMA4X Pg. 72
Gas Furnace	80% AFUE		92% AFUE	96% AFUE			
	1 H/1 C MCT N80MSN Pg. 75	1 H/2 C VCT N80VSL Pg. 76	1 H/1 C MCT N92MSN Pg. 81	1 H/1 C MCT N96MSN Pg. 82	1 H/2 C VCT N96VSN Pg. 83		
OIL Furnace	Up Flow		Low Boy				
	EC OMF Pg. 91	VSB OMV Pg. 92	EC OLR Pg. 93	VSB OLV Pg. 94			

UNIT PERFORMANCE DATA

Model Number	Size (tons)	SEER 2 Up To***	Sound Rating	MOP	Width x Depth in.	Height in.	Weight lbs.	Line Set
N4A5S18AKAWA	1½	16	75/75*	20	25-3/4 x 25-3/4	28-11/16	113/126	3/8 - 3/4
N4A5S24AKAWA	2	16	73/73*	20	25-3/4 x 25-3/4	35-1/2	123/137	3/8 - 3/4
N4A5S30AKAWA	2½	16	73/72*	25	31-3/16 x 31-3/16	35-1/2	144/162	3/8 - 3/4
N4A5S36AKAWA	3	16	75/75*	25	31-3/16 x 31-3/16	38-7/8	151/169	3/8 - 7/8
N4A5S42AKAWA	3½	15	76/74*	50	31-3/16 x 31-3/16	32-1/16	182/199	3/8 - 7/8
N4A5S48AKAWA	4	15	76/74*	50	31-3/16 x 31-3/16	32-1/16	182/199	3/8 - 7/8
N4A5S60AKAWA	5	15	75/73*	50	31-3/16 x 31-3/16	38-7/8	196/215	3/8 - 1 1/8**

N4A5S – C COASTAL PROTECTION OPTION

- Coastal Coated Fan Guard
- Coastal Coated Grille Guard

N4A5S18CKAWA
N4A5S24CKAWA

N4A5S30CKAWA
N4A5S36CKAWA

N4A5S42CKAWA
N4A5S48CKAWA

N4A5S60CKAWA

*w/ optional sound shield

** 7/8 connection Accessories page 30

*** Actual AHRI system rating is determined by the furnace/coil or AHU match.



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Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org



S4A5S Single Stage A/C Side Discharge Performance Series

REFRIGERATION CIRCUIT

- Scroll Compressors on all models
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - Improved Resistance to Dielectric Corrosion
 - Zinc Cladding provides Enhanced Corrosion Protection
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - Approximately 50% Lighter than Copper Coils
- Filter Drier Supplied for Field Installation

EASY TO INSTALL & SERVICE

- Factory Charged w/ R410A Refrigerant
- **Narrow Footprint for Tight Spaces**
- **Ball Bearing Fan Motor**
- **High & Low Pressure Switches**
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ Baked on Powder Coat Paint
- Coated Hail Guard Coil Protection
- Coated Cabinet Screws
- Post Painted (black) Coil Fins
- Internal Pressure Relief Valve
- Internal Thermal Overload

FACTORY LIMITED WARRANTY

- Residential:
 - 5 Year Limited Parts Warranty
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: 5 Year Limited Compressor / 1 Year Parts

MODEL COMPATABILITY - STANDARD 24V THERMOSTAT

AHU	Std	VSB	Front Rtn	Ceiling
	FJMA4X	FVM4X	FMA4PIX	FMU/FMC
	Pg. 52	Pg. 53	Pg. 61	Pg. 62

Coil	Tube/Fin "A" Coil			Power V		Arcoaire & Mortex	
	ADP	Coil	Arcoaire	Cased Vertical	Cased Multi		
Cased Up Flow	Cased Multi	Uncased	Horizontal Slab	Cased Vertical	Cased Multi	Mobile Home	
GG	EAM4X	EAA4X	EHD4X	EVD4X	EVM4X	EMA4X	
	Pg. 65	Pg. 69	Pg. 70	Pg. 71	Pg. 67	Pg. 68	Pg. 72

Gas Furnace	80% AFUE		92% AFUE		96% AFUE	
	1 H/1 C	1 H/2 C	1 H/1 C	1 H/1 C	1 H/1 C	1 H/2 C
	MCT	VCT	MCT	MCT	VCT	VCT
	N80MSN	N80VSL	N92MSN	N96MSN	N96VSN	N96VSN
	Pg. 75	Pg. 76	Pg. 81	Pg. 82	Pg. 83	Pg. 83

OIL Furnace	Up Flow		Low Boy	
	EC	VSB	EC	VSB
	OMF	OMV	OLR	OLV
	Pg. 91	Pg. 92	Pg. 93	Pg. 94

UNIT PERFORMANCE DATA

Model Number	Size (tons)	SEER 2 ***	Sound Rating	MOP	L x W In.	Height In.	Weight lbs.	Line Set
S4A5S18AKAWA	1-1/2	≥14.3	67/65*	20	36-15/16 x 14-9/16	36-3/4	153	3/8 x 5/8
S4A5S24AKAWA	2	≥14.3	70/67*	20	36-15/16 x 14-9/16	36-3/4	156	3/8 x 3/4
S4A5S30AKAWA	2-1/2	≥14.3	69/69*	25	44-1/2 x 17-1/16	36-3/4	189	3/8 x 3/4
S4A5S36AKAWA	3	≥14.3	71/70*	25	44-1/2 x 17-1/16	36-3/4	191	3/8 x 7/8
S4A5S48AKAWA	4	≥14.0	73/73*	40	44-1/2 x 17-1/16	36-3/4	243	3/8 x 7/8
S4A5S60AKAWA	5	≥13.8	73/73*	50	44-1/2 x 17-1/16	42-3/4	237	3/8 x 1-1/8**

*w/ optional sound shield

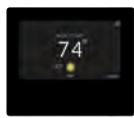
**suction line connection is 7/8

*** Actual AHRI system rating is determined by the furnace/coil or AHU match.

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UNITED REFRIGERATION INC.



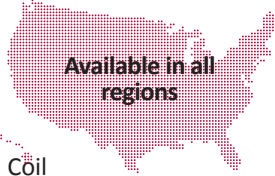
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MODEL COMPATABILITY - COMMUNICATING SYSTEM

AHU	Communicating VSB				
	FCM4X Pg. 54				
Coil	Tube/Fin "A" Coil			Power V	
	Arcoaire				
	Cased Multi	Uncased	Horizontal Slab	Cased Vertical	Cased Multi
	EAM4X Pg. 69	EAA4X Pg. 70	EHD4X Pg. 71	EVD4X Pg. 67	EVM4X Pg. 68
	Gas Furnace				
Gas Furnace	80% AFUE 2 H/2 C VCA F80CTL Pg. 78	96% AFUE 2 H/2 C VCA F96CTN Pg. 85	97% AFUE Modulating VCA F97CMN Pg. 86		
	Gas Furnace				
	80% AFUE 2 H/2 C VCA F80CTL Pg. 78	96% AFUE 2 H/2 C VCA F96CTN Pg. 85	97% AFUE Modulating VCA F97CMN Pg. 86		
ion Communicating Control			SYST0101CW		

H4A6S Single Stage A/C Ion Premier Series



REFRIGERATION CIRCUIT

- Scroll Compressors on all models
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Approximately 50% Lighter than Copper Coils
- Filter Drier Supplied for Field Installation

EASY TO INSTALL & SERVICE

- Self Configuring Operation & Text Based Diagnostics w/ Ion Control
- Compressor Sound Blanket & Isolation Grommets Factory Installed
- Extended Service Valve to Accommodate Press Fittings
- High & Low Pressure Switches
- Outdoor Temp Sensor Factory Installed
- Factory Charged w/ R410A Refrigerant
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ High Gloss, Baked on Powder Coat Paint
- Corner Posts for Added Cabinet Strength
- Coated Hail Guard Coil Protection
- Post Painted (black) Coil
- Coated Cabinet Screws
- Internal Pressure Relief Valve & Internal Thermal Overload

FACTORY LIMITED WARRANTY

- Residential: 5 Year No Hassle Replacement Warranty (Limitations Apply)
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: 5 Year Compressor / 1 Year Parts
- Limitations Apply, see warranty certificate for details

UNIT PERFORMANCE DATA

Model Number	Size (tons)	SEER 2 ***	Sound Rating	MOP	L x W In.	Height In.	Weight lbs.	Std Line Set
H4A6S18AKAWA	1½	16	74	20	31-3/16 x 31-3/16	32-1/8	174	3/8 x 3/4
H4A6S24AKAWA	2	16	73	20	31-3/16 x 31-3/16	32-1/8	179	3/8 x 3/4
H4A6S30AKAWA	2½	16	71	25	31-3/16 x 31-3/16	35-1/2	182	3/8 x 3/4
H4A6S36AKAWA	3	16	74	25	31-3/16 x 31-3/16	38-15/16	197	3/8 x 7/8
H4A6S42AKAWA	3½	15	73	50	31-3/16 x 31-3/16	32-1/8	225	3/8 x 7/8
H4A6S48AKAWA	4	15	73	50	31-3/16 x 31-3/16	32-1/8	225	3/8 x 7/8
H4A6S49AKAWA	4	16	72	40	31-3/16 x 31-3/16	45-11/16	302	3/8 x 1-1/8**
H4A6S60AKAWA	5	15	72	50	35 x 35	38-15/16	242	3/8 x 7/8
H4A6S61AKAWA	5	16	72	50	35 x 35	45-11/16	306	3/8 x 1-1/8**

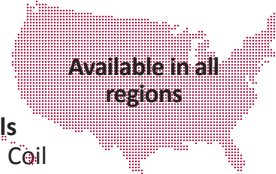
** Suction Line Connection is 7/8

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*** Actual AHRI system rating is determined by the furnace/coil or AHU match.



N4A7T Two Stage A/C Performance Series



REFRIGERATION CIRCUIT

- 2 Stage Scroll Compressors on all models
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - Approximately 50% Lighter than Copper Coils
- Filter Drier Supplied for Field Installation

EASY TO INSTALL & SERVICE

- Factory Charged w/ R410A Refrigerant
- Easy Access Service Valves & External Service Ports
- Only two screws to access the Service Panel
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ Baked on Powder Coat Paint
- Coated Hail Guard Coil Protection
- Coated Cabinet Screws
- Post Painted (black) Coil Fins
- Internal Pressure Relief Valve & Internal Thermal Overload

FACTORY LIMITED WARRANTY

- Residential:
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts



MODEL COMPATABILITY - TWO STAGE 24V THERMOSTAT

AHU	VSB FVM4X Pg. 53			
Coil	Tube/Fin "A" Coil		Power V	
	Arcoaire			
	Cased Multi	Uncased	Horizontal Slab	Cased Vertical
	EAM4X Pg. 69	EAA4X Pg. 70	EHD4X Pg. 71	EVD4X Pg. 67
Gas Furnace	80% AFUE		96% AFUE	
	1 H/2 C	2 H/2 C	1 H/2 C	2 H/2 C
	VCT	VCT	VCT	VCT
	N80VSL Pg. 76	F80VTL Pg. 77	N96VSN Pg. 83	F96VTN Pg. 84
Oil Furnace	Up Flow		Low Boy	
	VSB		VSB	
	OMV Pg. 92		OLV Pg. 94	

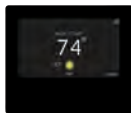
UNIT PERFORMANCE DATA									
Model Number	Size (tons)	SEER 2 Up To ***	Sound (dBA)		MOP	L x W In.	Height In.	Weight lbs.	Std Line Set
			STD	w/ Sound Shield					
N4A7T24AKAWA	2	17	73/73	72/72	20	31-3/16 x 31-3/16	35 1/2	151/173	3/8 x 3/4
N4A7T36AKAWA	3	17	74/74	72/72	35	35 x 35	32 1/2	182/208	3/8 x 7/8
N4A7T48AKAWA	4	16.5	75/74	72/71	40	35 x 35	38 7/8	233/261	3/8 x 1-1/8**
N4A7T60AKAWA	5	16	75/74	74/72	50	35 x 35	38 7/8	233/261	3/8 x 1-1/8**

N4A7T COASTAL PROTECTION OPTION				
• Coastal Coated Fan Guard		• Coastal Coated Grille Guard		
N4A7T24CKAWA	N4A7T36CKAWA	N4A7T48CKAWA	N4A7T60CKAWA	

** Suction Line Connection is 7/8

*** Actual AHRI system rating is determined by the furnaces/coil or AHU match.

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SYST0101CW



H4A7T Two Stage A/C Ion Premier Series - Communicating



REFRIGERATION CIRCUIT

- 2 Stage Copeland Scroll Ultratech Compressor
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Approximately 50% Lighter than Copper Coils
- Filter Drier Supplied for Field Installation

EASY TO INSTALL & SERVICE

- Self Configuring Operation & Text Based Diagnostics w/ Ion Control
- Compressor Sound Blanket & Isolation Grommets Factory Installed
- Extended Service Valve to Accommodate Press Fittings
- High & Low Pressure Switches
- Outdoor Temp Sensor Factory Installed
- Factory Charged w/ R410A Refrigerant
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ High Gloss, Baked on Powder Coat Paint
- Corner Posts for Added Cabinet Strength
- Coated Hail Guard Coil Protection
- Post Painted (black) Coil
- Coated Cabinet Screws
- Internal Pressure Relief Valve & Thermal Overload

FACTORY LIMITED WARRANTY

- Residential: 10 Year No Hassle Replacement Warranty (Limitations Apply)
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts

MODEL COMPATABILITY - COMMUNICATING SYSTEM

AHU	Communicating VSB			
	FCM4X Pg. 54			
Coil	Tube/Fin "A" Coil		Power V	
	Arcoaire			
	Cased Multi	Uncased	Horizontal Slab	Cased Vertical
EAM4X Pg. 69	EAA4X Pg. 70	EHD4X Pg. 71	EVD4X Pg. 67	Cased Multi EVM4X Pg. 68
Gas Furnace	80% AFUE	96% AFUE	97% AFUE	
	2 H/2 C	2 H/2 C	Modulating	
	VCA	VCA	VCA	
F80CTL Pg. 78	F96CTN Pg. 85	F97CMN Pg. 86		
Gas Furnace	80% AFUE	96% AFUE	97% AFUE	
	2 H/2 C	2 H/2 C	Modulating	
	VCA	VCA	VCA	
F80CTL Pg. 78	F96CTN Pg. 85	F97CMN Pg. 86		
ion Communicating Control		SYST0101CW		

UNIT PERFORMANCE DATA

Model Number	Size (tons)	SEER 2	Sound Rating		MOP	L x W In.	Height In.	Weight lbs.	Std Line Set
			High	Low					
H4A7T24AKAWA	2	tba	70	69	20	31-3/16 x 31-3/16	35-1/2	167	3/8 x 3/4
H4A7T36AKAWA	3	tba	72	72	35	35 x 35	33-5/8	206	3/8 x 7/8
H4A7T48AKAWA	4	tba	72	71	40	35 x 35	40-3/8	257	3/8 x 1-1/8**
H4A7T60AKAWA	5	tba	72	71	50	35 x 35	40-3/8	257	3/8 x 1-1/8**

** Suction Line Connection is 7/8
Accessories page 32

SPLIT A/C

SPLIT HEAT PUMPS

AIR HANDLING UNITS

FURNACE COILS

FURNACE 80%

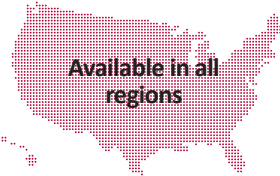
FURNACE 90%

OIL FURNACES

PACKAGE UNITS



DLCU 42 Step Inverter A/C 24v or Communicating



- Utilize expansion device on the indoor unit
- Insulate suction line only
- Anti corrosion coating
- Built in algorithm learns and adapts
- Monitors suction pressure/temperature (super heat) to regulate compressor speed
- Field adjustable timer (ramps up to 100% if thermostat not satisfied)
- Automatically ramps up/down 30-120% rated capacity
- Field set sw 1-3 to A/C only
- Low ambient cooling to -22°F
- Pre charged for 25' tubing
- 10 year residential warranty w/ timely registration



UNIT PERFORMANCE DATA

Model Number	Size (tons)	Up To SEER 2 ***	Sound Rating	MOP	L x W In.	Height In.	Weight lbs.	Line Set*
DLCURAH18AAK	1.5	16	tba	20	31-3/4 x 13	21-7/8	76	3/8 - 3/4
DLCURAH24AAK	2.0	17	tba	30	35 x 13-3/8	26-1/2	103	3/8 - 3/4
DLCURAH30AAK	2.5	17.3	tba	35	37-1/4 x 16	32	142	3/8 - 3/4
DLCURAH36AAK	3.0	16.9	tba	40	37-1/4 x 16	32	152	3/8 - 3/4
DLCURAH48AAK	4.0	15.8	tba	50	37-1/2 x 16-3/8	52-1/2	218	3/8 - 3/4
DLCURAH60AAK	5.0	14.7	tba	50	37-1/2 x 16-3/8	52-1/2	218	3/8 - 7/8

* Flare connections, insulate suction line only

*** Actual AHRI system rating is determined by the furnaces/coil or AHU match.

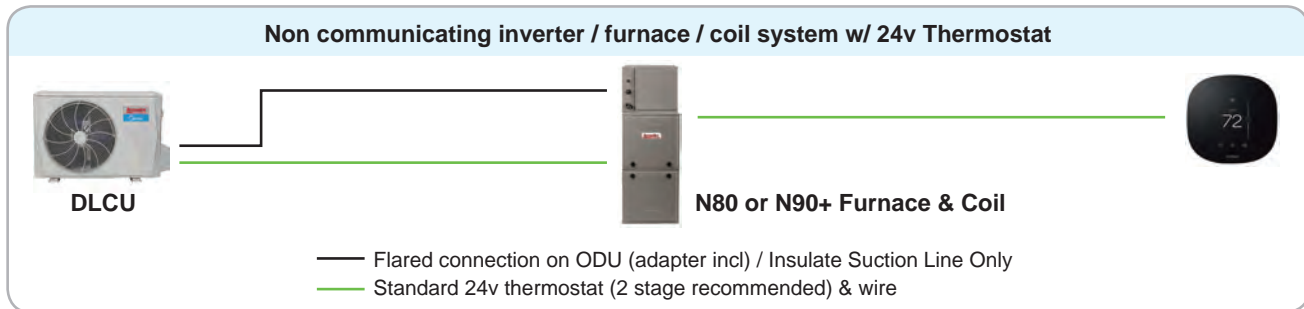
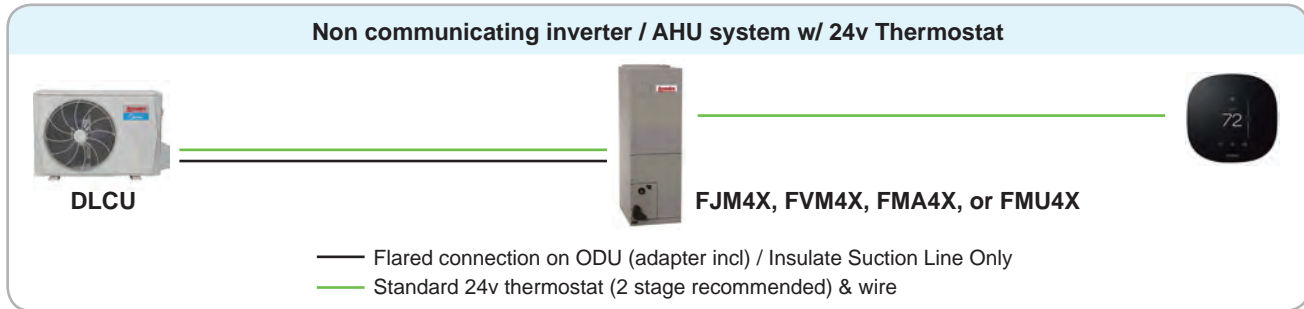
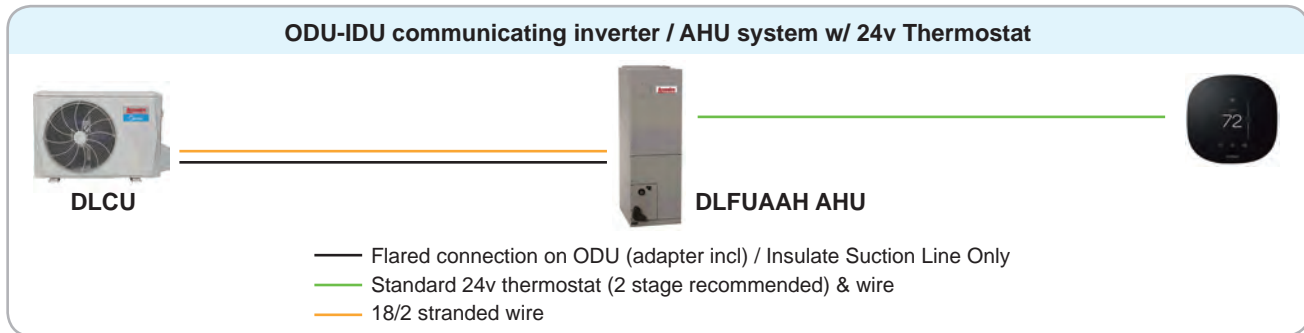
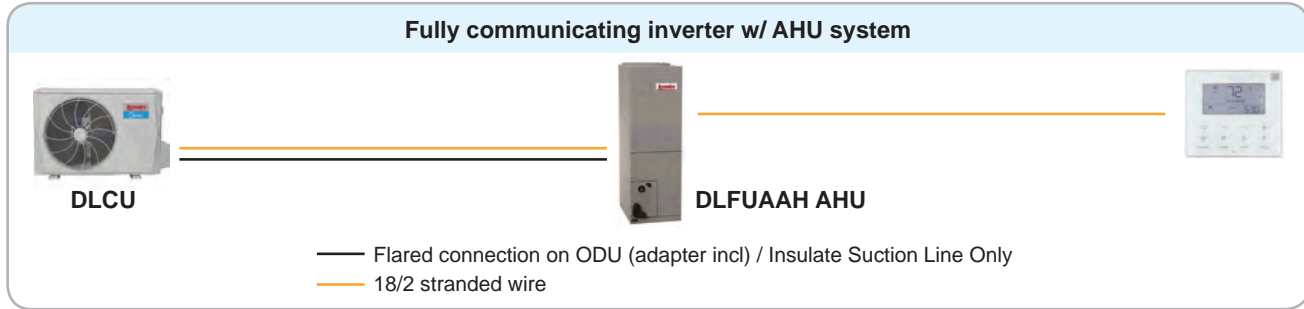
Accessories page 55

DLCU COMPATIBILITY CHART

Outdoor Unit	Size (tons)	DLCU COMPATIBILITY CHART				
		24V AHU	24V AHU Variable Speed	Communicating Optional AHU Variable Speed	24V Front Return AHU	24V Furnace / Coil
DLCURAH18AAK	1.5	FJMA4X18LOAB	FVM4X1800BL	DLFUAH18XAK	FMA4X1800AL	N80 / N92 / N96 + EAM4X18
DLCURAH24AAK	2	FJMA4X24LOBC	FVM4X2400BL	DLFUAH24XAK	FMA4X2400AL	N80 / N92 / N96 + EAM4X24
DLCURAH30AAK	3	FJMA4X30LOBB	FVM4X3000BL	DLFUAH30XAK	FMA4X3000AL	N80 / N92 / N96 + EAM4X30
DLCURAH36AAK	4	FJMA4X36LOBB	FVM4X3600BL	DLFUAH36XAK	FMA4X3600AL	N80 / N92 / N96 + EAM4X36
		page 52	page 53	page 55	page 61	pages 75, 76, 81, 82, 83



DLCU PIPE & WIRING OPTIONS



- SPLIT A/C
- SPLIT HEAT PUMPS
- AIR HANDLING UNITS
- FURNACE COILS
- FURNACE 80%
- FURNACE 90%
- OIL FURNACES
- PACKAGE UNITS



UNITED REFRIGERATION INC.

Arcoaire[®]

Air Conditioning & Heating

UR UNITED REFRIGERATION INC.



SYST0101CW
REQUIRED

smartsense
TECHNOLOGY



MODEL COMPATABILITY - COMMUNICATING SYSTEM

AHU	Communicating VSB FCM4X Pg. 54				
Coil	Tube/Fin "A" Coil			Power V	
	Arcoaire				
	Cased Multi	Uncased	Horizontal Slab	Cased Vertical	Cased Multi
	EAM4X Pg. 69	EAA4X Pg. 70	EHD4X Pg. 71	EVD4X Pg. 67	EVM4X Pg. 68
Gas Furnace	80% AFUE 2 H/2 C VCA F80CTL Pg. 78	96% AFUE 2 H/2 C VCA F96CTN Pg. 85	97% AFUE Modulating VCA F97CMN Pg. 86		
	80% AFUE 2 H/2 C VCA F80CTL Pg. 78	96% AFUE 2 H/2 C VCA F96CTN Pg. 85	97% AFUE Modulating VCA F97CMN Pg. 86		
	Ion Communicating Control				
SYST0101CW					

HVA9 5 Step Inverter A/C Ion Premier Series - Communicating

Arcoaire
Air Conditioning & Heating



REFRIGERATION CIRCUIT

- Inverter Rotary Compressor on all models
 - 5 Step Inverter operates 25-100% Capacity as needed
 - Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Approximately 50% Lighter than Copper Coils
- Filter Drier Supplied for Field Installation

EASY TO INSTALL & SERVICE

- Self Configuring Operation & Text Based Diagnostics w/ Ion Control
- Compressor Sound Blanket & Isolation Grommets Factory Installed
- Extended Service Valve to Accommodate Press Fittings
- High Pressure Switch / Low Pressure Transducer
- Outdoor Temp Sensor Factory Installed
- Factory Charged w/ R410A Refrigerant
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ High Gloss, Baked on Powder Coat Paint
- Corner Posts for Added Cabinet Strength
- Coated Hail Guard Coil Protection
- Post Painted (black) Coil
- Coated Cabinet Screws
- Internal Pressure Relief Valve & Thermal Overload

FACTORY LIMITED WARRANTY

- Residential: 10 Year No Hassle Replacement Warranty (Limitations Apply)
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts

UNIT PERFORMANCE DATA

Model Number	Size (tons)	Regional Availability	Sound Rating	MOP	L x W In.	Height In.	Weight lbs.	Line Set
HVA924GKA	2	North & South	56/67*	20	23-1/8 x 23-1/8	31-3/16	128/150	3/8 - 3/4**
HVA925GKA	2	All	56/69*	40	23-1/8 x 23-1/8	38-1/2	152/177	3/8 - 7/8***
HVA936GKA	3	North & South	57/71*	40	23-1/8 x 23-1/8	38-1/2	152/177	3/8 - 7/8***
HVA937GKA	3	All	57/68*	40	31-3/16 x 31-3/16	38-15/16	205/242	3/8 - 1-1/8****
HVA948GKA	4	North & South	63/72*	40	31-3/16 x 31-3/16	38-15/16	205/242	3/8 - 1-1/8****
HVA949GKA	4	All	58/74*	40	35 x 35	43-11/16	249/285	3/8 - 1-1/8****
HVA960GKA	5	North & South	58/72*	60	31-3/16 x 31-3/16	42-5/16	229/268	3/8 - 1-1/8****

* w/ optional sound shield

** 5/8 connection *** 3/4 connection **** 7/8 connection **Surge Protection Recommended**

▲ Meets Energy Star when matched with appropriate coil/furnace (AHU)

Accessories page 32



Single Stage Condensing Unit Accessories

R4A4S Accessories								
Kit Model #	Kit Name	18	24	30	36	42	48	60
NASA00201FS	FRZ THERM KIT	X	X	X	X	X	X	X
NASA001TD	TIME DELAY KIT (90 second TOR)	X	X	X	X	X	X	X
NANA00201TD	TIME DELAY KIT (30 second UK)	X	X	X	X	X	X	X
NASA401LA	LOW AMBIENT COOLING KIT	X	X	X	X	X	X	X
NASA012SC	HARD START KIT	X	X	X	X	X	X	X
NASA001AC	CYCLE PROTR KIT	X	X	X	X	X	X	X
NASA00201SF	SPRT FEET KIT	X	X	X	X	X	X	X
NASA401LS	SOL VALVE KIT	X	X	X	X	X	X	X
NASA00201WS	WINTER ST KIT	X	X	X	X	X	X	X
NASA403PS	LOW PRESSURE SW KIT	X	X	X	X	X	X	X
NASA404PS	HIGH PRESSURE SW KIT	X	X	X	X	X	X	X
NASA00601CH	CRKC HTR KJT	X	X	X	X			
NASA00501CH	CRKC HTR KJT					X	X	X
NAEA40501TX	TXV KIT (For use with copper coils)	X						
NAEA40601TX	TXV KIT (For use with copper coils)				X	X		
NAEA40701TX	TXV KIT (For use with copper coils)						X	X
NAEB40501TX	TXV KIT (For use with aluminum coils)	X	X	X				
NAEB40601TX	TXV KIT (For use with aluminum coils)				X	X		
NAEB40701TX	TXV KIT (For use with aluminum coils)						X	X
NASA00201SJ	SOUND BLKT KIT	X	X	X	X			
NASA00101SJ	SOUND BLKT KIT					X	X	X

N4A4S Accessories		
Description	Part No.	Used With
Evaporator Freeze Thermostat	NASA00201FS	All
Time-Delay Relay	90 sec TDR NASA001TD	All
	30 sec TDR NASA00201TD	All
Low Ambient Kit	NASA401LA	All
Hard Start Kit	NASA012SC	All
Cycle Protector	NASA001AC	All
Support Feet	NASA00201SF	All
Liquid-Line Solenoid Valve	NASA401LS	All
Winter Start Control	NASA00201WS	All
Low-Pressure Switch	NASA403PS	All
High-Pressure Switch	NASA404PS	All
Crankcase Heater	NASA00601CH	18-36
	NASA00501CH	42-60
TXV Kit (For use with copper coils)	NAEA40501TX	18-30
	NAEA40601TX	36-42
	NAEA40701TX	48-60
TXV Kit (For use with aluminum coils)	NAEB40501TX	18-30
	NAEB40601TX	36-42
	NAEB40701TX	48-60
Sound Blanket Kit	NASA00201SJ	18-36
	NASA00101SJ	42-60



Single Stage Condensing Unit Accessories

R4A5S Accessories										
Kit Model #	Kit Name	18	24	30	36	42	48	49	60	61
NASA00201FS	FRZ THERM K IT	x	x	x	x	x	x	x	x	x
1191595	Motor, Fan*							x		x
LA01RA339	Fan*							x		x
NASA001TD	TIME DELAY KIT (90 second TDR)	x	x	x	x	x	x	x	x	x
NASA00201TD	TIME DELAY KIT (30 second TDR)	x	x	x	x	x	x	x	x	x
NASA401LA	LOW AMBIENT COOLING KIT	x	x	x	x	x	x	x	x	x
NASA012SC	HARD START KIT	x	x	x	x	x	x	x	x	x
NASA001AC	CYCLE PROTR KIT	x	x	x	x	x	x	x	x	x
NASA00201SF	SPRT FEET KIT	x	x	x	x	x	x	x	x	x
NASA401LS	SOL VALVE KIT	x	x	x	x	x	x	x	x	x
NASA00201WS	WINTER ST KIT	x	x	x	x	x	x	x	x	x
NASA403PS	LOW PRESSURE SW KIT	x	x	x	x	x	x	x	x	x
NASA404PS	HIGH PRESSURE SW KIT	x	x	x	x	x	x	x	x	x
NASA00601CH	CRKC HTR KIT	x	x	x	x					
NASA00501CH	CRKC HTR KIT					x	x		x	
NAEA40501TX	TXV KIT (FOI" use with copper coils)	x	x	x						
NAEA40601TX	TXV KIT (FOI" use with copper coils)				x	x				
NAEA40701TX	TXV KIT (FOI" use with copper coils)						x	x	x	x
NAEB40501TX	TXV KIT (FOI" use with aluminum coils)	x	x	x						
NAEB40601TX	TXV KIT (FOI" use with aluminum coils)				x	x				
NAEB40701TX	TXV KIT (FOI" use with aluminum coils)						x	x	x	x
NASA00201SJ	SOUND B LKT KIT	x	x	x	x					
NASA00101SJ	SOUND B LKT KIT					x	x	x	x	x

*Required for use with low ambient kits. Rated efficiency will not be met with this accessory installed.
X = Accessory

N4A5S Accessories		
Description	Part No.	Used With
Evaporator Freeze Thermostat	NASA00201FS	All
Time-Delay Relay	90 sec TDR NASA001TD	All
	30 sec TDR NASA00201TD	All
Low Ambient Kit	NASA401LA	All
Hard Start Kit	NASA012SC	All
Cycle Protector	NASA001AC	All
Support Feet	NASA00201SF	All
Liquid-Line Solenoid Valve	NASA401LS	All
Winter Start Control	NASA00201WS	All
Low-Pressure Switch	NASA403PS	All
High-Pressure Switch	NASA404PS	All
Crankcase Heater	NASA00601CH	42-60
	NASA00501CH	18-36
TXV Kit (For use with copper coils)	NAEA40501TX	18-30
	NAEA40601TX	36-42
	NAEA40701TX	48-60
TXV Kit (For use with aluminum coils)	NAEB40501TX	18-30
	NAEB40601TX	36-42
	NAEB40701TX	48-60
Sound Blanket Kit	NASA00201SJ	18-36
	NASA00101SJ	42-60

Continued on next page

SPLIT A/C
SPLIT HEAT PUMPS
AIR HANDLING UNITS
FURNACE COILS
FURNACE 80%
FURNACE 90%
OIL FURNACES
PACKAGE UNITS

**Single Stage Condensing Unit Accessories**

S4A5S Accessories		
Ordering No.	Description	For Models
NASA401LA	Low Ambient Control (for cooling -20F)	All Sizes
NASA00601CH	Crankcase Heater	Sizes 18-36
NASA00501CH	Crankcase Heater	Sizes 48-60
NASA00201WS	Winter Start Kit (for low ambient on cooling only systems)	All Sizes
NASA00201WB	Wind Baffle	Sizes 18-24
NASA00301WB	Wind Baffle	Sizes 30-36
NASA00401WB	Wind Baffle	Sizes 48-60
NASA00101SG	Stacking Kit	Sizes 18-24
NASA00201SG	Stacking Kit	Sizes 30-60
NASA00101WM	Wall Mount Kit	Sizes 18-24
NASA00201WM	Wall Mount Kit	Sizes 30-60
NASA403PS	Low Pressure Switch Kit (Cut out system at 50PSI)	All Sizes
NASA401LS	Liquid Line Solenoid for Cooling Only	All Sizes - Required for Long Line Applications

H4A6S Accessories		
Description	Part No.	Used With
Freeze Thermostat	NASA00201FS	All
Time Delay (90 second TDR)	NASA001TD	All
Time Delay (30 second TDR)	NASA00201TD	All
Low Ambient Pressure Switch	NASA401LA	All
Fan Motor	NASA00301PM*	49, 61
Hard Start Kit	NASA012SC	All
Cycle Protector	NASA001AC	All
Support Feet	NASA00201SF	All
Solenoid Valve	NASA401LS	All
Winter Start	NASA00201WS	All
Crankcase Heater	NASA00601CH	18-36
	NASA00501CH	42, 48, 60
TXV (For use with copper coils)	NAEA40501TX	18-30
	NAEA40601TX	36, 42
	NAEA40701TX	48-61
TXV (For use with aluminum coils)	NAEB40501TX	18-30
	NAEB40601TX	36, 42
	NAEB40701TX	48-61

*Required for use with low ambient kits. Rated efficiency will not be met with this accessory installed.



SPLIT A/C

SPLIT HEAT PUMPS

AIR HANDLING UNITS

FURNACE COILS

FURNACE 80%

FURNACE 90%

OIL FURNACES

PACKAGE UNITS

2 Stage Accessories			
Description	Part No.	H4A7T	N4A7T
Freeze Thermostat	NASA00201FS	All	All
Time Delay (90 second TDR)	NASA001TD	All	All
Low Ambient Pressure Switch	NASA401LA	All	All
Hard Start Kit	NASA015SC	48-60	48-60
	NASA012SC	24-36	24-36
Cycle Protector	NASA001AC	All	All
Support Feet	NASA00201SF	All	All
Solenoid Valve	NASA401LS	All	All
Winter Start	NASA00201WS	All	All
Crankcase Heater	NASA00601CH	24	24
	NASA00501CH	60	60
TXV (For use with copper coils)	NAEA40501TX	24	24
	NAEA40601TX	36	36
	NAEA40701TX	48-60	48-60
TXV (For use with aluminum coils)	NAEB40501TX	24	24
	NAEB40601TX	36	36
	NAEB40701TX	48-60	48-60
Sound Blanket	NASA00201SJ	*	24-36
	NASA00101SJ	*	48-60
Low Pressure Switch	NASA403PS	*	All
High Pressure Switch	NASA404PS	*	All

*Standard on H4A7T

Inverter		
HVA9 (R-410A Air Conditioner)		
Description	Part No.	Used With
ION Communicating System Control	SYST0101CW	ALL
Snow Stand Kit	NASA00106SS	60
Support Feet, 4" (102mm) tall (4 blocks)	NASA001SF	37, 48, 49, 60
Support Feet, 4" (102mm) tall (5 blocks)	NASA00201SF	24, 25, 36
TXV Kit, R-410A for use on copper or tin fan coils	NAEA40501TX	24, 25
	NAEA40601TX	36, 37
	NAEA40701TX	48, 49, 60
TXV Kit, R-410A for use on aluminum fan coils	NAEB40501TX	24, 25
	NAEB40601TX	36, 37
	NAEB40701TX	48, 49, 60
Vapor Line Muffler	1187979	ALL



Heat Pump Roadmap

Pre-2023



HVH8.....
Up to 18.0 SEER
Five-Stage

HCH6.....
Up to 18.0 SEER
Two-Stage

HSH6.....
Up to 17.0 SEER
Single-Stage

HSH4.....
15.0 - 16.0 SEER
Single-Stage

2023

Ion™ System



HVH8.....
Up to 18.0 SEER2*
Five-Stage

H4H7T.....
Up to 17.0 SEER2
Two-Stage

H4H6S.....
Up to 15.2 SEER2*
Single-Stage

NEW



NH4H4.....
14.0 - 15.0 SEER
Single-Stage
Horizontal Discharge

N4H6.....
Up to 17.5 SEER
Two-Stage

NXH6.....
Up to 16.0 SEER
Single-Stage

NXH5.....
Up to 16.0 SEER
Single-Stage

N4H4.....
Up to 15.0 SEER
Single-Stage
Coastal Model Available

DLCS/DLCM.....
Up to 18 SEER2*
Ductless
or Ducted

DLCURA.....
Up to 18.0 SEER2*
Variable-Speed
Ducted

Performance Series



N4H7T.....
Up to 17.0 SEER2
Two-Stage
Includes
Coastal Model

N4H5S.....
At 14.3 SEER2
Single-Stage
Includes
Coastal Model



R4H4.....
Up to 15.0 SEER
Single-Stage

R-Series



R4H5S.....
At 14.3 SEER2
Single-Stage

Note: There will be no changes to three-phase product

* Based on preliminary ratings - subject to change.

Heat Pumps	1	2	3	4	5	6	7	8	9	10	11	12
Title	Brand & Airflow Type	Refrigerant Type	OD Type	Efficiency	Design Type	Nominal Cooling Capacity		Feature	Voltage	Special Feature	Region	Major Series
Product #/Letter	N	4	H	5	S	18		A	K	A	A	A
Descriptions	N = Non-Brand Specific Vertical H = Ion System R = R-Series	4 = R-410A	H = HP	5 = National Compliant 6 = 16 SEER2 7 = 17 SEER2 8 = 18 SEER2 9 = 19 SEER2	S = Single-Stage T = Two-Stage V = Variable-Speed	18 = 1.5 tons 24/25 = 2 tons 30 = 2.5 tons 36/37 = 3 tons 42/43 = 3.5 tons 48/49 = 4 tons 60/61 = 5 tons		A = Standard C = Coastal	K = 208-230-1 or 208/230-1 H = 208-230-3 or 208/230-3 L = 460-3 S = 575-3 W = 230-1-50	A = Standard	A = HP	A - Z

Note: Ion™ System HVH8 follows the pre-2023 nomenclature and meets the 2023 regulatory requirements.

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

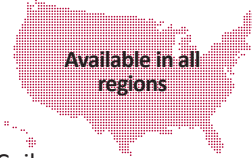
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UNITED REFRIGERATION INC.



R4H5S Single Stage Heat Pump Value Series



REFRIGERATION CIRCUIT

- Scroll Compressors on all models
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - Approximately 50% Lighter than Copper Coils
- Bi Flow Filter Drier Supplied for Field Installation
- Suction Line Accumulator Standard

EASY TO INSTALL & SERVICE

- Factory Charged w/ R410A Refrigerant
- Easy Access Service Valves & External Service Ports
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Pre Painted / Galvanized Steel Cabinet
- Coated Hail Guard Coil Protection
- Low Pressure Switch Standard
- Reliable Time / Temperature Defrost Control
- Internal Pressure Relief Valve & Thermal Overload

FACTORY LIMITED WARRANTY

- Residential:
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

MODEL COMPATABILITY - STANDARD 24V THERMOSTAT

AHU	Std FJMA4X Pg. 52	VSB FVM4X Pg. 53	Front Rtn FMA4X Pg. 61	Ceiling FMU/C4X Pg. 62
Coil	Tube/Fin "A" Coil			
	Arcoaire			
	ADP Cased Up Flow	Cased Multi	Uncased	Horizontal Slab
	GG Pg. 65	EAM4X Pg. 69	EAA4X Pg. 70	EHD4X Pg. 71 EMA4X Pg. 72
	Arcoaire & Mortex Mobile Home			
Gas Furnace	80% AFUE		92% AFUE	
	1 H/1 C	1 H/2 C	1 H/1 C	1 H/2 C
	MCT	VCT	MCT	VCT
	N80MSN Pg. 75	N80VSL Pg. 76	N92MSN Pg. 81	N96MSN Pg. 82 N96VSN Pg. 83
	Up Flow			
Oil Furnace	Up Flow		Low Boy	
	EC	VSB	EC	VSB
	OMF	OMV	OLR	OLV
	Pg. 91	Pg. 92	Pg. 93	Pg. 94

UNIT PERFORMANCE DATA

Model Number	Size (tons)	SEER 2***	Sound Rating*	MOP	L x W In.	Height In.	Weight lbs.	Line Set
R4H5S18AKAAA	1½	≥14.3	71/69	20	31-3/16 x 31-3/16	28-1/4	135	3/8 x 5/8
R4H5S24AKAAA	2	≥14.3	76/74	25	31-3/16 x 31-3/16	31-11/16	153	3/8 x 5/8
R4H5S30AKAAA	2½	≥14.3	76/74	30	31-3/16 x 31-3/16	28-1/4	171	3/8 x 3/4
R4H5S36AKAAA	3	≥14.3	76/74	30	31-3/16 x 31-3/16	28-1/4	173	3/8 x 3/4
R4H5S42AKAAA	3½	≥14.3	76/74	40	31-3/16 x 31-3/16	31-11/16	216	3/8 x 7/8
R4H5S48AKAAA	4	≥14.3	76/74	50	31-3/16 x 31-3/16	35-1/16	222	3/8 x 7/8
R4H5S60AKAAA	5	≥14.3	76/73	50	35 x 35	38-7/8	253	3/8 x 1-1/8**

*w/ optional sound shield

** Suction Line Connection is 7/8

*** Actual AHRI system rating is determined by the furnaces/coil or AHU match.

Accessories page 49



UNITED REFRIGERATION INC.



N4H5S Single Stage Heat Pump Performance Series

REFRIGERATION CIRCUIT

- Scroll Compressors on all models
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - Approximately 50% Lighter than Copper Coils
- Bi Flow Filter Drier Supplied for Field Installation
- Suction Line Accumulator Standard

EASY TO INSTALL & SERVICE

- Factory Charged w/ R410A Refrigerant
- Easy Access Service Valves & External Service Ports
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ Baked on Powder Coat Paint
- Coated Hail Guard Coil Protection
- Coated Cabinet Screws
- Post Painted (black) Coil Fins
- Low Pressure Switch Standard
- Reliable Time / Temperature Defrost Control
- Internal Pressure Relief Valve & Thermal Overload

FACTORY LIMITED WARRANTY

- Residential:
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

MODEL COMPATABILITY - STANDARD 24V THERMOSTAT

AHU	Std	VSB	Front Rtn	Celling	
	FJMA4X Pg. 52	FVM4X Pg. 53	FMA4X Pg. 61	FMU/C4X Pg. 62	
Coil	Tube/Fin "A" Coil				
	ADP	Arcoaire			Arcoaire & Mortex
	Cased Up Flow	Cased Multi	Uncased	Horizontal Slab	Mobile Home
	GG Pg. 65	EAM4X Pg. 69	EAA4X Pg. 70	EHD4X Pg. 71	EMA4X Pg. 72
Gas Furnace	80% AFUE		92% AFUE	96% AFUE	
	1 H/1 C	1 H/2 C	1 H/1 C	1 H/1 C 1 H/2 C	
	MCT	VCT	MCT	MCT VCT	
	N80MSN Pg. 75	N80VSL Pg. 76	N92MSN Pg. 81	N96MSN Pg. 82	N96VSN Pg. 83
	Up Flow		Low Boy		
Oil Furnace	EC	VSB	EC	VSB	
	OMF	OMV	OLR	OLV	
	Pg. 91		Pg. 92		
	Pg. 91		Pg. 93		

UNIT PERFORMANCE DATA STANDARD (GK*) MODELS

Model Number	Size (tons)	SEER 2***	Sound Rating	MOP	L x W In.	Height In.	Weight lbs.	Line Set
N4H5S18AKAAA	1½	≥14.3	71	20	31-3/16 x 31-3/16	28-11/16	140	3/8 x 5/8
N4H5S24AKAAA	2	≥14.3	76	25	31-3/16 x 31-3/16	32-1/16	159	3/8 x 5/8
N4H5S30AKAAA	2½	≥14.3	76	30	31-3/16 x 31-3/16	28-11/16	176	3/8 x 3/4
N4H5S36AKAAA	3	≥14.3	76	30	31-3/16 x 31-3/16	28-11/16	178	3/8 x 3/4
N4H5S42AKAAA	3½	≥14.3	76	40	31-3/16 x 31-3/16	32-1/16	221	3/8 x 7/8
N4H5S48AKAAA	4	≥14.3	76	50	31-3/16 x 31-3/16	35-1/2	228	3/8 x 7/8
N4H5S60AKAAA	5	≥14.3	76	50	35 x 35	38-7/8	260	3/8 x 1-1/8**

N4H5S - C COASTAL PROTECTION OPTION

- Coastal Coated Fan Guard
- Coastal Coated Grille Guard

N4H5S18CKAAA
N4H5S24CKAAA

N4H5S30CKAAA
N4H5S36CKAAA

N4H5S42CKAAA
N4H5S48CKAAA

N4H5S60CKAAA

** Suction Line Connection is 7/8

*** Actual AHRI system rating is determined by the furnaces/coil or AHU match.

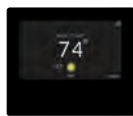
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Specifications are subject to change without notice.

www.uri.com

Not responsible for errors & omissions.

www.goarcoaire.com



SYST0101CW



H4H5S Single Stage Heat Pump Ion Premier Series



REFRIGERATION CIRCUIT

- Scroll Compressors on all models
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Approximately 50% Lighter than Copper Coils
- Bi Flow Filter Drier Supplied for Field Installation
- Suction Line Accumulator Standard

EASY TO INSTALL & SERVICE

- Self Configuring Operation & Text Based Diagnostics w/ Ion Control
- Compressor Sound Blanket & Isolation Grommets Factory Installed
- Extended Service Valve to Accommodate Press Fittings
- High & Low Pressure Switches
- Outdoor Temp Sensor Factory Installed
- Factory Charged w/ R410A Refrigerant
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ High Gloss, Baked on Powder Coat Paint
- Corner Posts for Added Cabinet Strength
- Coated Hail Guard Coil Protection
- Post Painted (black) Coil
- Coated Cabinet Screws
- Reliable Time / Temperature Defrost Control
- Internal Pressure Relief Valve & Internal Thermal Overload

FACTORY LIMITED WARRANTY

- Residential: 5 Year No Hassle Replacement Warranty (Limitations Apply)
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts

MODEL COMPATABILITY - COMMUNICATING SYSTEM

AHU	Communicating VSB		
	FCM4X Pg. 54		
Coil	Tube/Fin "A" Coil		
	Arcoaire		
	Cased Multi	Uncased	Horizontal Slab
	EAM4X Pg. 69	EAA4X Pg. 70	EHD4X Pg. 71
Gas Furnace	80% AFUE	96% AFUE	97% AFUE
	2 H/2 C	2 H/2 C	Modulating
	VCA	VCA	VCA
	F80CTL Pg. 78	F96CTN Pg. 85	F97CMN Pg. 86

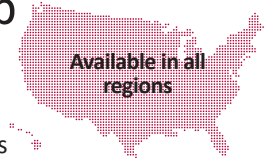
UNIT PERFORMANCE DATA

Model Number	Size (tons)	SEER 2	Sound Rating	MOP	L x W In.	Height In.	Weight lbs.	Std Line Set
H4H5S18AKAAA	1½	tba	70	20	31-3/16 x 31-3/16	tba	164	tba
H4H5S24AKAAA	2	tba	68	25	31-3/16 x 31-3/16	tba	172	tba
H4H5S30AKAAA	2½	tba	71	30	31-3/16 x 31-3/16	tba	202	tba
H4H5S36AKAAA	3	tba	72	30	31-3/16 x 31-3/16	tba	204	tba
H4H5S42AKAAA	3½	tba	72	40	31-3/16 x 31-3/16	tba	236	tba
H4H5S48AKAAA	4	tba	72	50	31-3/16 x 31-3/16	tba	245	tba
H4H5S60AKAAA	5	tba	71	50	35 x 35	tba	288	tba

** Suction Line Connection is 7/8
Accessories page 50



UNITED REFRIGERATION INC.



N4H7T Two Stage Heat Pump Performance Series

REFRIGERATION CIRCUIT

- 2 Stage Scroll Compressors on all models
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - Approximately 50% Lighter than Copper Coils
- Bi Flow Filter Drier Supplied for Field Installation
- Suction Line Accumulator Standard

EASY TO INSTALL & SERVICE

- Factory Charged w/ R410A Refrigerant
- Easy Access Service Valves & External Service Ports
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ Baked on Powder Coat Paint
- Coated Hail Guard Coil Protection
- Coated Cabinet Screws
- Post Painted (black) Coil Fins
- Low Pressure Switch Standard
- Reliable Time / Temperature Defrost Control
- Internal Pressure Relief Valve & Thermal Overload

FACTORY LIMITED WARRANTY

- Residential:
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts

MODEL COMPATABILITY - TWO STAGE 24V THERMOSTAT

AHU	VSB	
	FVM4X Pg. 53	
Coil	Tube/Fin "A" Coil	
	Arcoaire	
	Cased Multi	Uncased
	EAM4X Pg. 69	EAA4X Pg. 70
Gas Furnace	80% AFUE	
	1 H/2 C	2 H/2 C
	VCT	VCT
	N80VSL Pg. 76	F80VTL Pg. 77
OIL Furnace	96% AFUE	
	1 H/2 C	2 H/2 C
	VCT	VCT
	N96VSN Pg. 83	F96VTN Pg. 84
OIL Furnace	Up Flow	Low Boy
	VSB	VSB
	OMV	OLV
	Pg. 92	Pg. 94

UNIT PERFORMANCE DATA

Model Number	Size (tons)	Up To SEER 2 ***	Sound (dBA)		MOP	L x W In.	Height In.	Weight lbs.	Std Line Set
			STD	w/ Sound Shield					
N4H7T24AKAAA	2	17	73/70	71/70	25	35 x 35	35 1/2	206	3/8-3/4
N4H7T36AKAAA	3	17	74/71	72/70	40	35 x 35	38 7/8	221	3/8-7/8
N4H7T48AKAAA	4	17	75/71	74/70	50	35 x 35	45 11/16	266	3/8-7/8
N4H7T60AKAAA	5	16	74/73	73/72	60	35 x 35	45 11/16	267	3/8-1 1/8**

N4H7T - C COASTAL PROTECTION OPTION

- Coastal Coated Fan Guard
- Coastal Coated Grille Guard

N4H7T24CKAAA

N4H7T36CKAAA

N4H7T48CKAAA

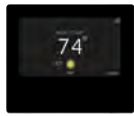
N4H7T60CKAAA

** Suction Line Connection is 7/8 Accessories page 50

*** Actual AHRI system rating is determined by the furnace/coil or AHU match.



UNITED REFRIGERATION INC.



SYST0101CW



MODEL COMPATIBILITY - COMMUNICATING SYSTEM

AHU	Communicating VSB		
	FCM4X Pg. 54		
Coil	Tube/Fin "A" Coil		
	Arcoaire		
	Cased Multi	Uncased	Horizontal Slab
	EAM4X Pg. 69	EAA4X Pg. 70	EHD4X Pg. 71
Gas Furnace	80% AFUE	96% AFUE	97% AFUE
	2 H/2 C	2 H/2 C	Modulating
	VCA	VCA	VCA
	F80CTL Pg. 78	F96CTN Pg. 85	F97CMN Pg. 86

H4H7T Two Stage Heat Pump Ion Premier Series



REFRIGERATION CIRCUIT

- 2 Stage Copeland Scroll Ultratech Compressors
- Crank Case Heater Standard
- Discharge Gas Thermostat
- Welded Aluminum Tube / Aluminum +O11:O36Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Approximately 50% Lighter than Copper Coils
- Bi Flow Filter Drier Supplied for Field Installation
- Suction Line Accumulator Standard

EASY TO INSTALL & SERVICE

- Factory Charged w/ R410A Refrigerant
- Easy Access Service Valves on all models
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ Baked on Powder Coat Paint
- Coated Hail Guard Coil Protection
- Coated Cabinet Screws
- Post Painted (black) Coil Fins
- High & Low Low Pressure Switches Standard
- Reliable Time / Temperature Defrost Control
- Ball Bearing Fan Motor
- Internal Pressure Relief Valve & Thermal Overload

FACTORY LIMITED WARRANTY

- Residential: 5 Year No Hassle Replacement Warranty (Limitations Apply)
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts

UNIT PERFORMANCE DATA

Model Number	Size (tons)	Up To SEER 2 ***	Sound Rating		MOP	L x W In.	Height In.	Weight lbs.	Std Line Set
			High	Low					
H4H7T24AKAAA	2	17.0	70	69	25	35 x 35	37	244	3/8-3/4
H4H7T36AKAAA	3	17.0	72	71	40	35 x 35	40 3/8	261	3/8-7/8
H4H7T48AKAAA	4	17.0	73	73	50	35 x 35	47-3/16	309	3/8-1/8**
H4H7T60AKAAA	5	16.0	72	72	60	35 x 35	47-3/16	310	3/8-1/8**

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**Suction line connection is 7/8

***Actual AHRI system rating is determined by the furnace/coil or AHU match



DLCU 42 Step Inverter Heat Pump 24V or Communicating (Optional)

- NEEP Cold Climate Heat Pump (Up to 100% rated heat @ 4F)
- Reversing valve energizes in heat mode (use B terminal on thermostat)
- Low ambient cooling to -22°F
- **Utilize expansion device on the indoor unit**
- **Insulate suction line only**
- Factory installed base pan heater
- Anti corrosion coating
- Built in algorithm learns and adapts
- **Monitors suction pressure/temperature (super heat) to regulate compressor speed**
- Field adjustable timer (ramps up to 100% if thermostat not satisfied)
- Automatically ramps up/down 30-120% rated capacity
- Pre charged for 25' tubing
- 10 year residential warranty w/ timely registration

UNIT PERFORMANCE DATA - STANDARD HEAT PUMP

Model Number	Size (tons)	Up To SEER 2 ***	Up To HSPF 2 ***	Sound Rating	MOP	L x W In.	Height In.	Weight lbs.	Line Set*
DLCURAH18AAK	1.5	16.0	8.7	tba	20	31-3/4 x 13	21-7/8	76	3/8 - 3/4
DLCURAH24AAK	2.0	17.0	9.1	tba	30	35 x 13-3/8	26-1/2	103	3/8 - 3/4
DLCURAH30AAK	2.5	17.3	8.5	tba	35	37-1/4 x 16	32	142	3/8 - 3/4
DLCURAH36AAK	3.0	16.9	8.2	tba	40	37-1/4 x 16	32	152	3/8 - 3/4
DLCURAH48AAK	4.0	15.8	9.4	tba	50	37-1/2 x 16-3/8	52-1/2	218	3/8 - 3/4
DLCURAH60AAK	5.0	14.7	8.4	tba	50	37-1/2 x 16-3/8	52-1/2	218	3/8 - 7/8

UNIT PERFORMANCE DATA NEEP COLD CLIMATE HEAT PUMP

Model Number	Size (tons)	Up To SEER 2 ***	Up To HSPF 2 ***	Sound Rating	MOP	L x W In.	Height In.	Weight lbs.	Line Set*
DLCURAH18ABK	1.5	18	9.2	58	20	35-1/8 x 13-1/4	26-1/2	103	3/8 - 3/4
DLCURAH24ABK	2.0	17.4	9.8	64	35	37-1/4 x 15-7/8	31-7/8	142	3/8 - 3/4
DLCURAH30ABK	2.5	16.2	8.8	62	35	37-1/4 x 15-7/8	31-7/8	142	3/8 - 3/4
DLCURAH36ABK	3.0	15.8	9.5	64	50	37-1/2 x 16-3/8	52-1/2	218	3/8 - 3/4
DLCURAH48ABK	4.0	15.6	9.3	64	50	37-1/2 x 16-3/8	52-1/2	218	3/8 - 3/4
DLCURAH60ABK	5.0	15.0	9.0	64	60	37-1/2 x 16-3/8	52-1/2	240	3/8 - 7/8

* Flare connections, insulate suction line only
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DLCU COMPATIBILITY CHART

Outdoor Unit	Size (tons)	DLCU COMPATIBILITY CHART				
		24v AHU	24v AHU Variable Speed	Communicating Optional AHU Variable Speed	24V Front Return AHU	24V Furnace / Coil
DLCURAH18ABK	1.5	FJMA4X18LOAB	FVM4X1800BL	DLFUA AH18XAK	FMA4X1800AL	N80 / N92 / N96 + EAM4X18
DLCURAH24ABK	2	FJMA4X24LOBC	FVM4X2400BL	DLFUA AH24XAK	FMA4X2400AL	N80 / N92 / N96 + EAM4X24
DLCURAH30ABK	3	FJMA4X30LOBB	FVM4X3000BL	DLFUA AH30XAK	FMA4X3000AL	N80 / N92 / N96 + EAM4X30
DLCURAH36ABK	4	FJMA4X36LOBB	FVM4X3600BL	DLFUA AH36XAK	FMA4X3600AL	N80 / N92 / N96 + EAM4X36

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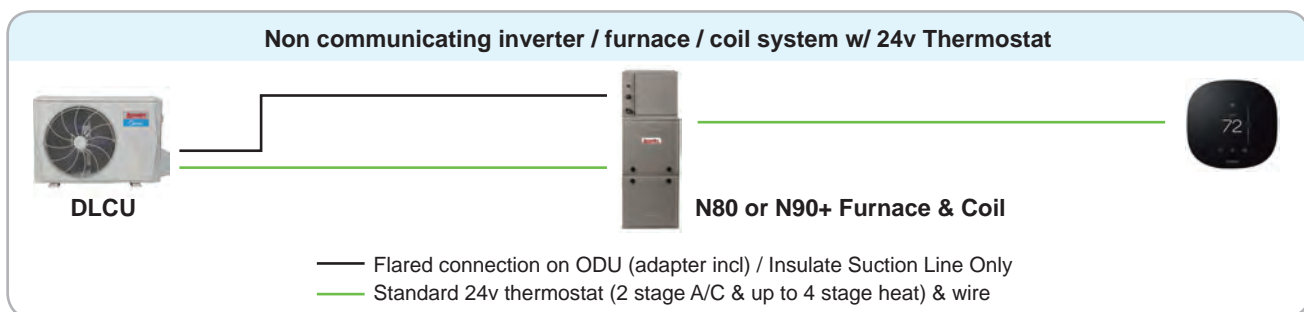
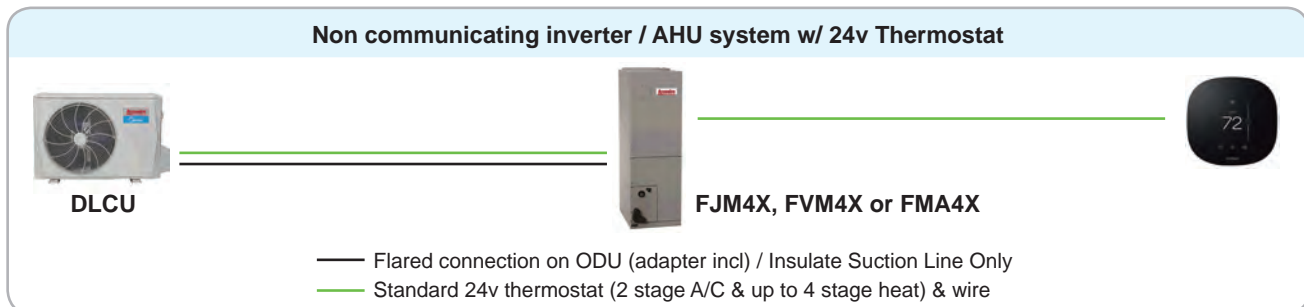
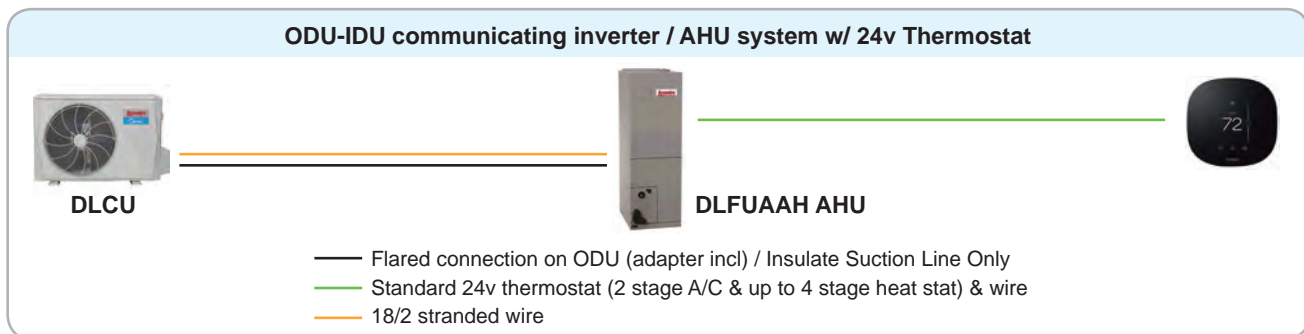
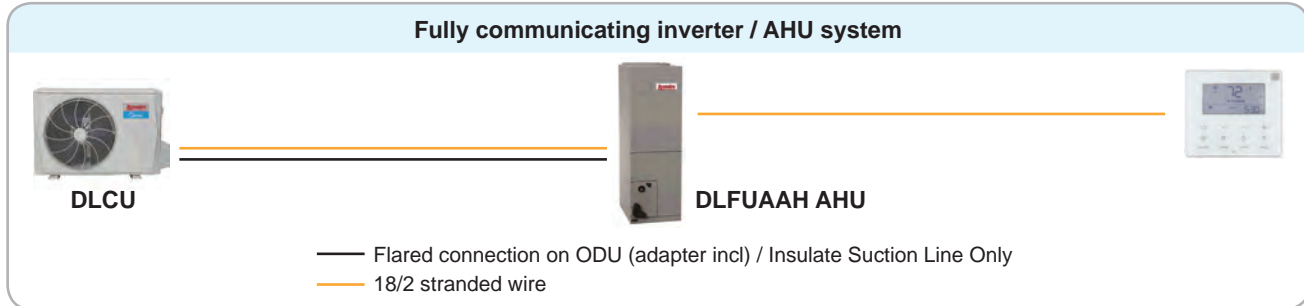
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DLCU PIPE & WIRING OPTIONS

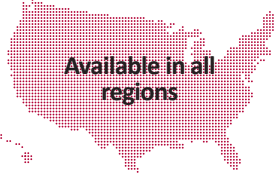


- SPLIT A/C
- SPLIT HEAT PUMPS
- AIR HANDLING UNITS
- FURNACE COILS
- FURNACE 80%
- FURNACE 90%
- OIL FURNACES
- PACKAGE UNITS

UNITED REFRIGERATION INC.



DLCS **42 Step Inverter** **Heat Pump** **Single Zone Ductless** **or Ducted**



- NEEP Cold Climate Heat Pump
 - Up to 100% Rated Heating Capacity @ 4F
- Monitors return air temperature to regulate compressor speed
- Built in algorithm learns & adapts

REFRIGERATION CIRCUIT

- 42 Step Inverter Rotary Compressor
- Copper Tube / Aluminum Fin Coil
- Refrigerant Leak Detection
- **Factory Installed EEV**
 - **Both Lines Must be Insulated (3/4")**
 - **14/4 Power/Communication Wire from outdoor to communicating indoor unit or interface**

Do not install filter driers on this system



EASY TO INSTALL & SERVICE

- See below & Page 42 for Compatible Indoor Units

BUILT TO LAST

- Anti Corrosion Fin Coating
- Built in Base Pan Heater

Single Zone Outdoor Units									
Model Number	Size (tons)	Sound Rating	MOP	L x W In.	Height In.	Weight lbs.	Max Line Set Length / Height	Min Line	Line Set
DLCSRBH12AAJ	1.0 ton 115v	54	25	12 x 30.12	21.85	66.8	98/65	10	1/4 - 1/2
DLCSRBH09AAK	0.75	54.5	15	13 x 31.69	21.81	74.07	98/65	10	1/4 - 3/8
DLCSRBH12AAK	1.0	56	15	13 x 31.69	21.81	73.63	98/65	10	1/4 - 1/2
DLCSRBH18AAK	1.5	59	25	13.5 x 35.04	26.5	100.97	98/65	10	1/4 - 1/2
DLCSRBH24AAK	2.0	62	35	16.25 x 37.24	31.89	134.48	164/82	10	3/8 - 5/8
DLCSRBH30AAK	2.5	63	30	16.25 x 37.24	31.89	141.776	164/82	10	3/8 - 5/8
DLCSRBH36AAK	3.0	64	35	16.25 x 37.24	31.89	155.42	213/98	10	3/8 - 5/8

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Outdoor Unit	Size (tons)	Communicating Indoor Compatibility Chart			
		Ductless Wall Mount	Ductless Console	Ceiling AHU	Communicating Optional Variable Speed AHU
DLCSRBH12AAJ	1.0	DLFSHBH12XAJ			
DLCSRBH09AAK	0.75	DLFSHBH09XAK		DLFSDAH09XAK	
DLCSRBH12AAK	1.0	DLFSHBH12XAK	DLFSFAH12XAK	DLFSDAH12XAK	
DLCSRBH18AAK	1.5	DLFSHBH18XAK		DLFSDAH18XAK	DLFSABH18XBK
DLCSRBH24AAK	2.0	DLFSHBH24XAK			DLFSABH24XBK
DLCSRBH30AAK	3				DLFSABH30XBK
DLCSRBH36AAK	4				DLFSABH36XBK

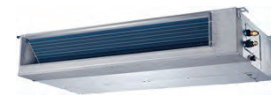
Outdoor Unit	Size (tons)	24v Ducted Compatibility Chart				Required 24v Accessories	
		24v AHU	24v AHU Variable Speed	24V AHU Front Return AHU	24 Furnace / Coil	24V Interface	Coil Adapter
DLCSRBH12AAK	1.0			FMA4X1800AL		KSAIC0401230	40MD000003
DLCSRBH18AAK	1.5	FJMA4X18LOAB	FVM4X1800BL	FMA4X1800AL	N80 / N92 / N96 + EAM4X18	KSAIC0401230	40MD000003
DLCSRBH24AAK	2	FJMA4X24LOBB	FVM4X2400BL	FMA4X2400AL	N80 / N92 / N96 + EAM4X24	KSAIC0401230	40MD000003
DLCSRBH30AAK	3	FJMA4X30LOBB	FVM4X3000BL	FMA4X3000AL	N80 / N92 / N96 + EAM4X30	KSAIC0401230	40MD000003
DLCSRBH36AAK	4	FJMA4X36LOBB	FVM4X3600BL	FMA4X3600AL	N80 / N92 / N96 + EAM4X36	KSAIC0401230	40MD000003

Ductless Wall Mount							
Model Number	Size (tons)	SEER	EER	HSPF	Cooling Capacity	Heating Capacity	Compatibility
DLFSHBH12XAJ	1.0 ton 115v	22	12.5	11.5	12,000	12,000	DLCSR BH12AAJ
DLFSHBH09XAK	0.75	25.5	15.8	12.5	9,000	12,000	DLCSR BH09AAK
DLFSHBH12XAK	1.0	22	13	12.7	12,000	12,000	DLCSR BH12AAK
DLFSHBH18XAK	1.5	21.5	13	11	18,000	18,000	DLCSR BH18AAK
DLFSHBH24XAK	2.0	21.5	12.5	11.5	24,000	24,000	DLCSR BH24AAK

Ductless Console							
DLFSFAH12XAK	0.75	23	13	11.5	12,000	12,000	DLCSR BH12AAK

Ducted Horizontal w/ Built in Interface							
DLFSDAH09XAK	0.75	23	14	12	9,000	10,000	DLCSR BH09AAK
DLFSDAH12XAK	1.0	21.5	13	11.5	12,000	12,000	DLCSR BH12AAK
DLFSDAH18XAK	1.5	19.6	12.5	12.6	16,500	19,000	DLCSR BH18AAK

24v Ducted AHU w/ Built in Interface							
DLFSABH18XBK	1.5	20	12.5	10	20,000	21,000	DLCSR BH18AAK
DLFSABH24XBK	2.0	21	12.5	11.6	26,000	29,000	DLCSR BH24AAK
DLFSABH30XBK	2.5	19	11.1	10	31,200	32,000	DLCSR BH30AAK
DLFSABH36XBK	3.0	17	8.8	11.3	41,000	43,000	DLCSR BH36AAK



SPLIT A/C
SPLIT HEAT PUMPS
AIR HANDLING UNITS
FURNACE COILS
FURNACE 80%
FURNACE 90%
OIL FURNACES
PACKAGE UNITS

DLCS Piping & Wiring Diagrams

Fully communicating ductless system

DLCS DLFSHBH / FAH / DAH

Non Communicating AHU system

DLCS FJM4X, FVM4X or FMA4

Fully communicating AHU system

DLCS DLFSABH AHU

option 1
option 2

Non Communicating Furnace / Coil System

DLCS N80 or N90+ Furnace & Coil

— Flared ends / Insulate both liquid & suction lines

— 14/4 stranded power / communication wire

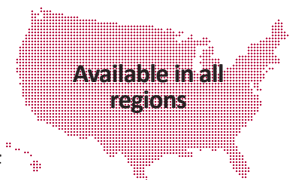
— 18/2 stranded wire

— Standard thermostat wire

UNITED REFRIGERATION INC.



DLCM **42 Step Inverter Heat Pump** **Multi Zone Ductless** **or Ducted**



- NEEP Cold Climate Heat Pump
 - Up to 100% Rated Heating Capacity @ 4F
- Small / Quiet / More Efficient & Price Competitive

REFRIGERATION CIRCUIT

- 42 Step Inverter Rotary Compressor
- Copper Tube / Aluminum fin Coil
- Refrigerant Leak Detection
- Factory Installed EEV
 - Both Lines Must be Insulated (3/4")
 - 14/4 Power/Communication Wire from outdoor - Indoor
 - Requires a Compatible AHU or Interface Kit

EASY TO INSTALL & SERVICE

- See Below & Page 42 for Compatible Indoor Units
- Up to 130% Diversity Ratio

Do not install filter driers on this system



BUILT TO LAST

- Anti Corrosion Fin Coating
- Built in Base Pan Heater
- Residential 10 Year Warranty w/ Timely Registration

Multi Zone Outdoor Units									
Model Number	Size (tons)	SEER*	Sound Rating	Max. Fuse or Breaker	L x W In.	Height In.	Weight lbs.	Max Line Set Length / Height	Zones Min/Max
DLCRMRBH24CAK	2.0	24.1/22.6	61	35	37-1/4 x 16-1/4	32	139.8	197/49	2/3
DLCRMRBH36DAK	3.0	21.8/20.5	64	60	37-1/2 x 16-1/4	52-1/2	223.1	262/65	2/4
DLCRMRBH48EAK	4.0	21.5/20.9	65	60	37-1/2 x 16-1/4	52-1/2	238.3	328/65	2/5

*Ductless/Mixed
Accessories page 56

Indoor Unit Size (tons)	Communicating Indoor Unit Compatibility Chart				Compatible Multi Zone Outdoor Units
	Ductless Wall Mount	Ductless Console	Ceiling AHU	Communicating Optional Variable Speed AHU	
0.75	DLFSHBH09XAK		DLFSDAH09XAK		DLCRMRBH24CAK DLCRMRBH36DAK DLCRMRBH48EAK
1.0	DLFSHBH12XAK	DLFSFAH12XAK	DLFSDAH12XAK		DLCRMRBH24CAK DLCRMRBH36DAK DLCRMRBH48EAK
1.5	DLFSHBH18XAK		DLFSDAH18XAK	DLFSABH18XBK	DLCRMRBH24CAK DLCRMRBH36DAK DLCRMRBH48EAK
2.0	DLFSHBH24XAK			DLFSABH24XBK	DLCRMRBH36DAK DLCRMRBH48EAK
3				DLFSABH30XBK	DLCRMRBH48EAK
4				DLFSABH36XBK	DLCRMRBH48EAK

Indoor Unit Size (tons)	Multi Zone 24v Indoor Unit Options			Required 24v Accessories		Compatible Multi Zone Outdoor Units		
	24v AHU	24v AHU Variable Speed	24v AHU Front Return AHU	24V Interface	Coil Adapter			
1.5	FJMA4X18LOAB	FVM4X1800BL	FMA4X1800AL	KSAIC0401230	40MD000003	DLCRMRBH24CAK	DLCRMRBH36DAK	DLCRMRBH48EAK
2	FJMA4X24LOBC	FVM4X2400BL	FMA4X2400AL	KSAIC0401230	40MD000003		DLCRMRBH36DAK	DLCRMRBH48EAK
3	FJMA4X30LOBB	FVM4X3000BL	FMA4X3000AL	KSAIC0401230	40MD000003			DLCRMRBH48EAK
4	FJMA4X36LOBB	FVM4X3600BL	FMA4X3600AL	KSAIC0401230	40MD000003			DLCRMRBH48EAK

Ductless Wall Mount				
Model Number	Size (tons)	Cooling Capacity	Heating Capacity	Compatibility
DLFSHBH09XAK	0.75	9,000	12,000	All Multi Zone
DLFSHBH12XAK	1.0	12,000	12,000	All Multi Zone
DLFSHBH18XAK	1.5	18,000	18,000	All Multi Zone
DLFSHBH24XAK	2.0	24,000	26,000	DLCSRBH36 & 48 Only

Ductless Console				
Model Number	Size (tons)	Cooling Capacity	Heating Capacity	Compatibility
DLFSFAH12XAK	0.75	12,000	12,000	All Multi Zone

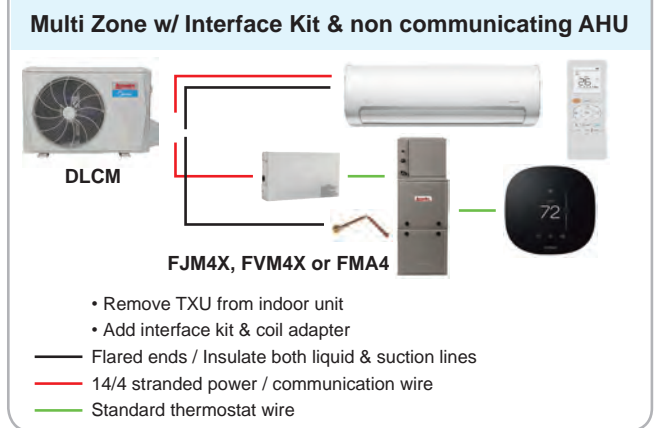
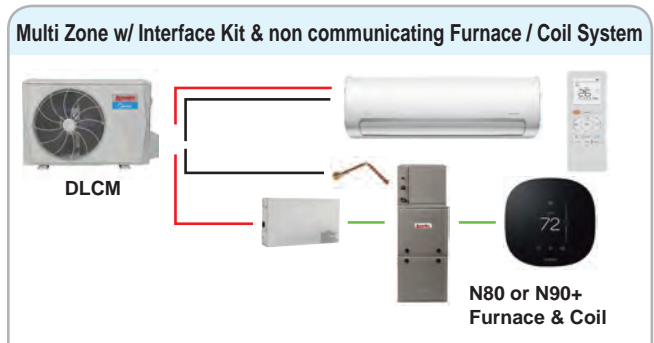
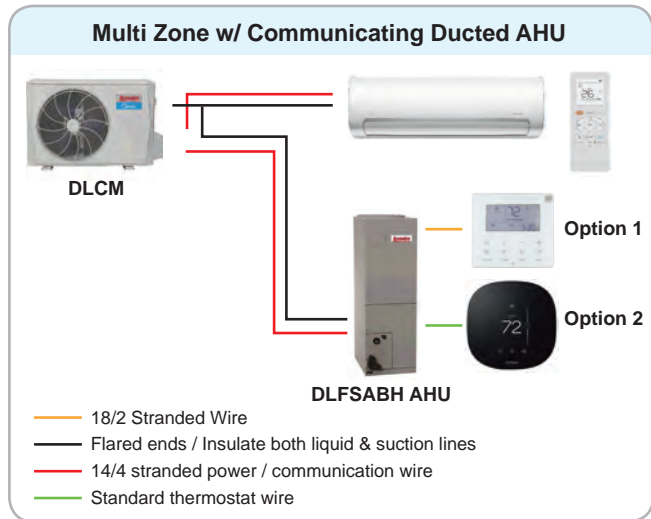
Ducted Horizontal				
Model Number	Size (tons)	Cooling Capacity	Heating Capacity	Compatibility
DLFSDAH09XAK	0.75	9,000	10,000	All Multi Zone
DLFSDAH12XAK	1.0	12,000	12,000	All Multi Zone
DLFSDAH18XAK	1.5	16,500	19,000	All Multi Zone

Communicating Ducted AHU				
Model Number	Size (tons)	Cooling Capacity	Heating Capacity	Compatibility
DLFSABH18XBK	1.5	TBA	TBA	All Multi Zone
DLFSABH24XBK	2.0	TBA	TBA	DLCSRBH36 & 48 Only
DLFSABH30XBK	2.5	TBA	TBA	DLCRMHBH48EAK Only
DLFSABH36XBK	3.0	TBA	TBA	DLCRMHBH48EAK Only



SPLIT A/C
SPLIT HEAT PUMPS
AIR HANDLING UNITS
FURNACE COILS
FURNACE 80%
FURNACE 90%
OIL FURNACES
PACKAGE UNITS

DLCM Piping & Wiring Diagrams



**DURACOMFORT™
DELUXE SERIES**
DLCPRA OUTDOOR UNIT



Ductless Heat Pump 30 - 40 SEER

OUTDOOR FEATURES

- 100% Heating capacity at 0° F (-17° C)
- 100% Cooling capacity at -22° F (-30° C) without additional kit
- Up to 75% of Heating capacity at -22° F (-30° C)
- Available in 208/230V
- Built-in basepan heater
- Auto-restart function
- Refrigerant leakage detection
- Quiet outdoor operation, as low as 55 dB(A)
- Anti-corrosive fin coating
- Piping length 98 ft. (30 m.)
- Cooling operating range -22° ~ 122° F (-30° ~ 50° C)
- Heating operating range -22° ~ 86° F (-25° ~ 30° C)

COMPATIBLE WITH:

- DLFPHA High Wall

Heat Pump with Basepan Heater

Inverter Compressor

Up to 40.0 SEER

Up to 14.5 HSPF

Sizes: 09 / 12

All systems are ENERGY STAR® certified



KEY FEATURES

Extra Low Temperature Heating

Heat output up to 75% of rated capacity down to -22° F (-30° C), so when it's cold outside, it will be warm inside making this a primary heat source, and reducing the need for a backup heat source.

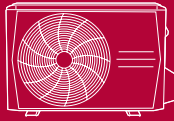
Stepless Frequency Adjustment

Precise control maintains stable and constant room temperature while reducing sound level and energy consumption.

COMPATIBILITY:

Indoor Unit		Outdoor Unit	
		DLCPRAH09AAK	DLCPRAH12AAK
High Wall	DLFPHAH09XAK	•	
	DLFPHAH12XAK		•




DURACOMFORT™ DELUXE SERIES
DLCPRA OUTDOOR UNIT
SPECIFICATIONS:

DLCPRA Outdoor Unit			
Heat Pump			
		System	
Size		9	12
Outdoor Model		DLCPRAH09AAK	DLCPRAH12AAK
Electrical			
Voltage-Phase-Cycle	V-Ph-Hz	208/230-1-60	208/230-1-60
MCA	A.	13	15
MOCP - Fuse Rating	A.	15	20
Operating Range			
Cooling Outdoor DB Min - Max	° F (° C)	-22~122 (-30~50)	-22~122 (-30~50)
Heating Outdoor DB Min - Max	° F (° C)	-22~86 (-30~30)	-22~86 (-30~30)
Piping			
Total Piping Length	ft (m)	98 (30)	98 (30)
Piping Lift*	ft (m)	49 (15)	49 (15)
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)
Refrigerant			
Type		R410A	R410A
Charge	lbs (kg)	3.5 (1.58)	3.5 (1.58)
Outdoor			
Unit Width	in (mm)	33.27 (845)	33.27 (845)
Unit Height	in (mm)	27.64 (702)	27.64 (702)
Unit Depth	in (mm)	14.29 (363)	14.29 (363)
Net Weight	lbs (kg)	107.59 (48.8)	108.47 (49.2)
Airflow	CFM	1,380	1,380
Sound Pressure	dB(A)	55.5	56.0

*Condensing unit above or below indoor unit.

PERFORMANCE:

High Wall			
Indoor Model		DLFPHAH09XAK	DLFPHAH12XAK
ENERGY STAR®		YES	YES
Cooling System Tons		0.8	1.0
Cooling Rated Capacity	Btu/h	9,000	12,000
Cooling Cap. Range Min - Max	Btu/h	5,000~17,000	5,800~19,000
SEER		40.0	30.0
EER		15	13.5
Heating Rated Capacity (47° F)	Btu/h	10,000	12,000
Heating Rated Capacity (17° F)	Btu/h	7,200	6,800
Heating Maximum Capacity (17° F)	Btu/h	15,690	17,070
Heating Maximum Capacity (5° F)	Btu/h	13,000	13,800
Heating Cap. Range Min - Max	Btu/h	3,100~19,000	3,500~21,000
HSPF		14.5	13.6
COP (47° F)	W/W	4.00	4.24
COP (17° F)	W/W	2.78	2.64
COP (5° F)	W/W	2.00	2.00

Manufacturer reserves the right to discontinue, or change at any time, specification or designs without notice or incurring obligations.

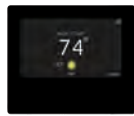
Arcoaire.com | PO Box 128 Lewisburg, TN 37091 | ©2020 International Comfort Products; Midea is a registered trademark owned by Midea Group Co., Ltd. Wi-Fi® is a registered trademark of Wi-Fi Alliance. ENERGY STAR® is a registered trademark of the U.S. EPA. | Part No. 328-32-0516-01



UNITED REFRIGERATION INC.

Arcoaire[®]

Air Conditioning & Heating



SYST0101CW

smartsense
TECHNOLOGY



MODEL COMPATABILITY - COMMUNICATING SYSTEM

AHU	Communicating VSB		
	FCM4X Pg. 54		
Coil	Tube/Fin "A" Coil		
	Arcoaire		
	Cased Multi	Uncased	Horizontal Slab
	EAM4X Pg. 69	EAA4X Pg. 70	EHD4X Pg. 71
Gas Furnace	80% AFUE	96% AFUE	97% AFUE
	2 H/2 C	2 H/2 C	Modulating
	VCA	VCA	VCA
	F80CTL Pg. 78	F96CTN Pg. 85	F97CMN Pg. 86

HVH8 5 Step Inverter Heat Pump Ion Premier Series - Communicating



REFRIGERATION CIRCUIT

- Inverter Rotary Compressor on all models
 - 5 Step Inverter operates 25-100% Capacity as needed
- Welded Aluminum Tube / Aluminum Fin Coil
 - Improved Efficiency w/ Multi Directional Internal Enhancements
 - Less Sensitivity to Pressure Drop
 - Heat Shrink Wrap Protects Copper / Aluminum Joints
 - AL/AL w/ Zinc Cladding Provides Enhanced Corrosion Protection
 - Approximately 50% Lighter than Copper Coils
- Filter Drier Supplied for Field Installation

EASY TO INSTALL & SERVICE

- Self Configuring Operation & Text Based Diagnostics w/ Ion Control
- Compressor Sound Blanket & Isolation Grommets Factory Installed
- Extended Service Valve to Accommodate Press Fittings
- High Pressure Switch / Low Pressure Transducer
- Outdoor Temp Sensor Factory Installed
- Factory Charged w/ R410A Refrigerant
- Long Line Set Capability (refer to spec sheet for details)
- Low Ambient Cooling Capable w/ Optional Kit

BUILT TO LAST

- Galvanized Steel Cabinet w/ High Gloss, Baked on Powder Coat Paint
- Corner Posts for Added Cabinet Strength
- Coated Hail Guard Coil Protection
- Post Painted (black) Coil
- Coated Cabinet Screws
- Internal Pressure Relief Valve & Thermal Overload

FACTORY LIMITED WARRANTY

- Residential: 10 Year No Hassle Replacement Warranty (Limitations Apply)
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)
- Commercial: Limited 5 Year Compressor / 1 Year Parts

UNIT PERFORMANCE DATA

Model Number	Size (tons)	Sound Rating	MOP	L x W In.	Height In.	Weight lbs.	Line Set
HVH824GKA	2	56/67*	20	23-1/8 x 23-1/8	31 13/16	132/154	3/8 - 3/4**
HVH825GKA	2	56/69*	40	23-1/8 x 23-1/8	38 1/2	156/181	3/8 - 7/8***
HVH836GKA	3	56/72*	40	23-1/8 x 23-1/8	38 1/2	156/181	3/8 - 7/8***
HVH837GKA	3	60/69*	40	31-3/16 x 31-3/16	38 15/16	207/244	3/8 - 1-1/8****
HVH848GKA	4	64/72*	50	31-3/16 x 31-3/16	38 15/16	207/244	3/8 - 1-1/8****
HVH860GKA	5	57/72*	60	31-3/16 x 31-3/16	42 5/16	233/272	3/8 - 1-1/8****

* w/ optional sound shield

** 5/8 connection

*** 3/4 connection

**** 7/8 connection

Accessories page 50

Surge Protection Recommended

Specifications are subject to change without notice.

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Not responsible for errors & omissions.

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SPLIT A/C

SPLIT HEAT PUMPS

AIR HANDLING UNITS

FURNACE COILS

FURNACE 80%

FURNACE 90%

OIL FURNACES

PACKAGE UNITS



R4H5S Accessories								
Kit Model #	Kit Name	18	24	30	36	42	48	60
NASA00601CH	Crankcase Heater	X	X	X	X			
NASA00501CH	Crankcase Heater					X	X	S
NASA001TD	Time Delay Relay	X	X	X	X	X	X	X
NASA001011K	Isolation Relay	X	X	X	X	X	X	X
NASA001LS	Solenoid Valve Kit	X	X	X	X	X	X	X
NASA00106SS	Snow Stand	X	X	X	X	X	X	X
NASA001AC	Cycle Protector	X	X	X	X	X	X	X
NASA00201FS	Evaporator Freeze Stat	X	X	X	X	X	X	X
NASM05PS	High Pressure Switch Kit	X	X	X	X	X	X	X
NASA012SC	Hard Start	X	X	X	X	X	X	X
NASM01LA	Low Ambient Cooling Pressure Switch	X	X	X	X	X	X	X
NAEA40501TX	TXVKit	X	X	X				
NAEM0601TX	TXVKit				X	X		
NAEA40701TX	TXVKit						X	X
NAEB40501TX	TXVKit	X	X	X				
NAEB40601 TX	TXVKit				X	X		
NAEB40701TX	TXVKit						X	X
NASA00201 SJ	Sound Blanket	X	X	X	X			
NASA001 01 SJ	Sound Blanket					X	X	X
NASA00201SF	Support Feet	X	X	X	X	X	X	X

X = Accessory
S = Standard

N4H5S Accessories		
Description	Part No.	Used With
Evaporator Freeze Thermostat	NASA00201FS	All
Time-Delay Relay	90 sec TDR NASA001TD	All
	30 sec TDR NASA00201TD	All
Low Ambient Kit	NASA401LA	All
Hard Start Kit	NASA012SC	All
Cycle Protector	NASA001AC	All
Support Feet	NASA00201SF	All
Liquid-Line Solenoid Valve	NASA401LS	All
Winter Start Control	NASA00201WS	All
Low-Pressure Switch	NASA403PS	All
High-Pressure Switch	NASA404PS	All
Crankcase Heater	NASA00601CH	42-60
	NASA00501CH	18-36
TXV Kit (For use with copper coils)	NAEA40501TX	18-30
	NAEA40601TX	36-42
	NAEA40701TX	48-60
TXV Kit (For use with aluminum coils)	NAEB40501TX	18-30
	NAEB40601TX	36-42
	NAEB40701TX	48-60
Sound Blanket Kit	NASA00201SJ	18-36
	NASA00101SJ	42-60



N4H7T Accessories		
Part Number	Description	Used With
NASA00201FS	Evaporator Freeze Stat	All
NASA001TD	Time Delay Relay	All
NASA401LA	Low Ambient	All
NASA0010101IK	Isolation Relay	All
NASA015SC	Hard Start	All
NASA001AC	Cycle Protection	All
NASA00201SF	Support Feet	All
NASA001LS	Solenoid Valve	All
NAEA40501TX	TXV KIT (for use with copper coils)	24
NAEA40601TX	TXV KIT (for use with copper coils)	36
NAEA40701TX	TXV KIT (for use with copper coils)	48-60
NAEB40501TX	TXV KIT (for use with aluminum coils)	24
NAEB40601TX	TXV KIT (for use with aluminum coils)	36
NAEB40701TX	TXV KIT (for use with aluminum coils)	48-60
NASA00201SJ	Sound Blanket	24-36
NASA00101SJ	Sound Blanket	48-60
NASA00106SS	Snow Stand	All
NASA405PS	High Pressure Switch Kit	All

H4H5S Accessories		
Part Number	Description	Used With
	TBA	

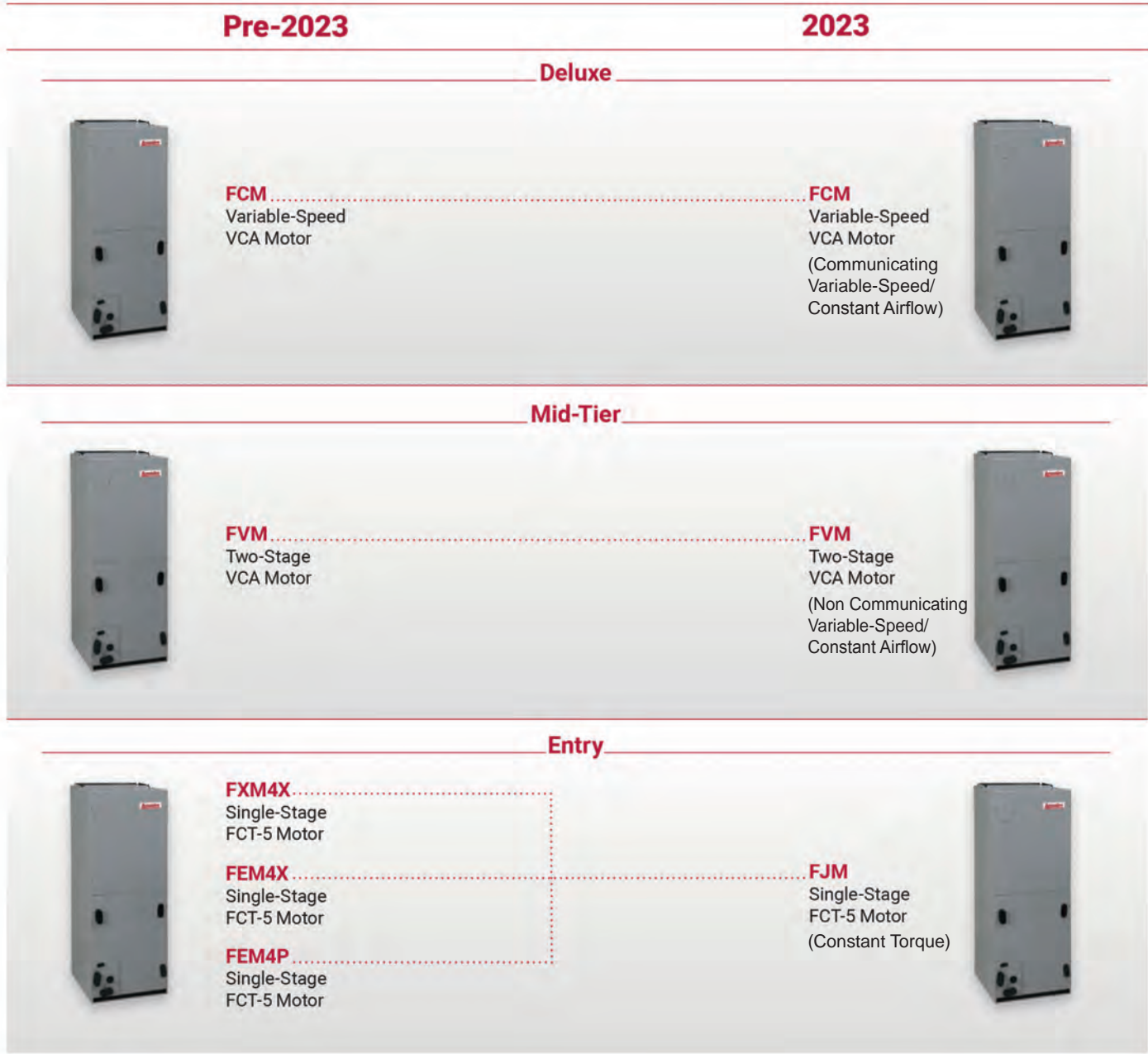
H4H7T Accessories		
Part Number	Description	Used With
	TBA	

HVH8 (R-410A, 5 Stage Communicating Heat Pump)		
Part Number	Description	Used With
SYST0101CW	Ion Self Configuring Communication Wall Control	ALL
NASA00201SF	Support Feet, 4 (102mm) tall	24, 25, 36, 37, 48, 60
NASA00201FS*	Freeze Thermostat Kit	ALL
NAEA40501TX	TXV Kit, R-410A - for use with copper or tin piston coils	24, 25
NAEA40601TX		36, 37
NAEA40701TX		48, 60
NAEB40501TX	TXV Kit, R-410A - for use with aluminum piston coils	24, 25
NAEB40601TX		36, 37
NAEB40701TX		48, 60
1187979	Vapor Line Muffler	ALL

SPLIT A/C
SPLIT HEAT PUMPS
AIR HANDLING UNITS
FURNACE COILS
FURNACE 80%
FURNACE 90%
OIL FURNACES
PACKAGE UNITS



Fan Coil Roadmap



Fan Coils	1	2	3	4	5	6	7	8	9	10	11	12
Title	Unit	Type	Position	Major Series	Refrigerant Type	Metering Device	Nominal Cooling Capacity		Coil Type	Feature	Cabinet Width	Sales Code
Product #/Letter	F	V	M	A	4	X	24		L	0	B	A
Descriptions	F = Fan Coil	V = Variable-Speed C = Communicating ECM J = ECM Five-Speed	U = Upflow M = Multi-Poise	A - Z	4 = R-410A	X = TXV	18/19 = 18,000 24/25 = 24,000 30/31 = 30,000 36/37 = 36,000 42/43 = 42,000 48/49 = 48,000 60/61 = 60,000		L = Aluminum	0	A = 14" B = 17" C = 21" D = 24"	A

Motor Key: VCA = Variable-Speed Constant Airflow Motor | FCT = Fixed-Speed Constant Torque Motor



FJMA4X Multi Position Fan Coil



FEATURES

- Factory installed TXV metering device
- High efficiency EC 5-speed motor
- Time delay relay (TDR)
- Units tested and certified by manufacturer to achieve a 2% or less leakage rate at 1.0 inch water column

EASY TO INSTALL & SERVICE

- Multi position installation (Horizontal kit required 30-60)
- Field convertible to down flow with accessory kit

BUILT TO LAST

- Primary and secondary drain fittings with brass inserts
- Thick insulation with R value of 4.2 w/ vapor barrier

OPTIONS

- Field installed heater packages from 5 kW – 30 kW available

WARRANTY

- **Residential: 5 year No Hassle Replacement™ limited warranty**
 - 5 Year Limited Parts Warranty Standard
 - 10 Year Limited Parts Warranty w/ timely registration (Not Transferrable)



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

UNIT PERFORMANCE DATA

Model Number	Size (tons)	Nominal CFM	Operating Dimensions		Supply Plenum	Bottom Return	Side Return	Weight lbs.
			Height	Width x Depth in.				
FJMA4X18LOAB	1½	600	42-11/16	14-5/16 x 22-1/16	12 x 11	12 x 19-3/16	12 x 19	120
FJMA4X24LOBC	2	800	49-5/8	17-5/8 x 22-1/16	15-3/4 x 11	15-5/8 x 19-3/16	17 x 19	131
FJMA4X30LOBB	2½	1000	49-5/8	17-5/8 x 22-1/16	15-3/4 x 11	15-5/8 x 19-3/16	n/a	148
FJMA4X36LOBB	3	1200	49-5/8	17-5/8 x 22-1/16	15-3/4 x 11	15-5/8 x 19-3/16	n/a	148
FJMA4X42LOCB	3½	1400	49-5/8	21-1/8 x 22-1/16	19-1/4 x 11	19-1/8 x 19-3/16	n/a	166
FJMA4X48LOCB	4	1600	53-7/16	21-1/8 x 22-1/16	19-1/4 x 11	19-1/8 x 19-3/16	n/a	182
FJMA4X60LODB	5	2000	59-3/16	24-11/16 x 22-1/16	22-3/4 x 11	22-3/4 x 19-3/16	n/a	210

Accessories page 58

Note: new Heater Kits, see page 58

Hot Water Coils page 57

SPLIT A/C

SPLIT HEAT PUMPS

AIR HANDLING UNITS

FURNACE COILS

FURNACE 80%

FURNACE 90%

OIL FURNACES

PACKAGE UNITS



UNITED REFRIGERATION INC.



FVM4X Multi Position Fan Coil Variable Speed Non Communicating Systems

FEATURES

- Factory installed TXV metering device
- Variable Speed EC motor
- Supports 2 Stage Outdoor Units
- Dehumidification Mode
- Heat Pump Comfort/Efficiency Options
- Units tested and certified by manufacturer to achieve a 2% or less leakage rate at 1.0 inch water column

EASY TO INSTALL & SERVICE

- Multi position installation – up flow or horizontal left standard,
- Horizontal right with minor modification
- Field convertible to down flow with accessory kit
- HUD approved for manufactured housing

BUILT TO LAST

- Primary and secondary drain fittings with brass inserts
- 1 inch thick insulation with R value of 4.2

OPTIONS

- Field installed heater packages from 5 kW – 30 kW available

WARRANTY

- **Residential: 10 year No Hassle Replacement™ limited warranty**
 - 5 Year Limited parts warranty standard
 - 10 Year Limited parts w/ timely registration (Not Transferrable)



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

UNIT PERFORMANCE DATA

Model Number	Size (tons)	CFM Low	CFM Hi	Operating Dimensions		Supply Plenum	Bottom Return	Side Return	Weight lbs.
				Height	Width x Depth in.				
FVM4X2400BL	2	350	1200	42-11/16	17-5/8 x 22-1/16	15 3/4 x 11	15 5/8 x 19 13/16	17 x 19	135
FVM4X3600BL	3	415	1400	53-7/16	21-1/8 x 22-1/16	19 1/4 x 11	19 1/8 x 19 13/16	n/a	150
FVM4X4800BL	4	425	1600	53-7/16	21-1/8 x 22-1/16	19 1/4 x 11	19 1/8 x 19 13/16	n/a	172
FVM4X6000BL	5	540	2000	59-3/16	24-11/16 x 22-1/16	22 3/4 x 11	22 3/4 x 19 13/16	n/a	207

Accessories page 59

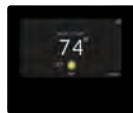
How Water Coils page 57



FCM4X Multi Position Fan Coil Variable Speed Ion Communicating Systems

FEATURES

- Smart Diagnostics
- Factory installed TXV metering device
- Variable Speed EC motor
- Supports 2 Stage Outdoor Units
- Dehumidification Mode
- Heat Pump Comfort/Efficiency Options
- Units tested and certified by manufacturer to achieve a 2% or less leakage rate at 1.0 inch water column



SYST0101CW



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

ENERGY EFFICIENT OPERATION

- Variable speed EC Motor operates efficiently at all speeds
- Ultra-low power consumption during fan only operation

AIRFLOW TECHNOLOGY

- Meets requirements of a 2% cabinet leakage rate when tested at 1.0 in wc of static pressure

CONDENSATE CONTROL AND DISPOSAL TECHNOLOGY

- Minimal standing water – less microbial growth for improved IAQ and reduced condensate line clogging and related condensate leakage
- Tested for condensate disposal at conditions much more severe than those required by AHRI
- Primary and secondary drain connections to comply with HUD
- All pans constructed of an injection molded glass-filled polycarbonate engineered resin material, with brass drain connections.

INSTALLATION

- Easy 4 wire hook up: reduces installation time
- Multi-position installation
- Modular cabinet on 5 ton model

OPTIONS

- 5kw - 30kw Heat Kits Available

WARRANTY

- Residential: 10 year No Hassle Replacement™ limited warranty
 - 5 Year Limited parts warranty standard
 - 10 Year Limited Parts w/ timely registration

UNIT PERFORMANCE DATA

Model Number	Size (tons)	CFM	Operating Dimensions		Supply Plenum	Bottom Return	Side Return	Weight lbs.
			Height	Width x Depth				
FCM4X2400AL	2	800	42-11/16	17-5/8 x 22-1/16	15 3/4 x 11	15 5/8 x 19 13/16	17 x 19	135
FCM4X3600AL	3	1200	53-7/16	21-1/8 x 22-1/16	19 1/4 x 11	19 1/8 x 19 13/16	n/a	150
FCM4X4800AL	4	1600	53-7/16	21-1/8 x 22-1/16	19 1/4 x 11	19 1/8 x 19 13/16	n/a	172
FCM4X6000AL	5	1750	59-3/16	24-11/16 x 22-1/16	22 3/4 x 11	22 3/4 x 19 13/16	n/a	207

Accessories page 59

Hot Water Coils page 57



UNITED REFRIGERATION INC.



DLFUAA Multi Position Fan Coil Variable Speed Communicating or 24v



Compatible w/
DLCU Only

FEATURES

- Factory installed EEV
- Variable Speed EC
- Dehumidification Mode
- Units tested and certified by manufacturer to achieve a 2% or less leakage rate at 1.0 inch water column

EASY TO INSTALL & SERVICE

- Multi position (4 way)
- Compatible w/ 24v thermostats

OPTIONS

- Field installed heater packages from 5 kw - 25 kw available
- Communicating Control or 24v optional

WARRANTY

- **Residential: 10 year No Hassle Replacement™ limited warranty**
 - 5 Year Limited parts warranty standard
 - 10 Year Limited parts w/ timely registration (Not Transferrable)



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

UNIT PERFORMANCE DATA

Model Number	Size (tons)	Nominal CFM	SEER 2	HSPF 2	Cooling	Heating	L x W In.	Height In.
DLFUAAH18XAK	1.5	600	18.0	9.2	18,000	19,000	17.5 x 21	45
DLFUAAH24XAK	2.0	800	17.4	9.8	24,000	24,000	17.5 x 21	45
DLFUAAH30XAK	2.5	1000	16.2	8.8	30,000	33,000	21 x 21	49
DLFUAAH36XAK	3.0	1200	15.8	9.5	36,000	41,000	21 x 21	49
DLFUAAH48XAK	4.0	1600	15.6	9.3	47,000	50,000	21 x 21	49
DLFUAAH60XAK	5.0	2000	15.0	9.0	55,000	59,000	24.5 x 21	53

DLFUAA: OPTIONAL ELECTRIC HEAT KITS

EHKMB05KN	5kw	18-36
EHKMB08KN	8kw	18-48
EHKMB10KN	10kw	18-60
EHKMB15KN	15kw	24-60
EHKMB20KN	20kw	36-60
EHKMB25KN	25kw	60 only

KSACN1001AAA

Optional communicating control requires 18/2 standard, not shielded wire ODU - IDU - Control

How Water Coils page 57



DLFSAB Multi Position Fan Coil Variable Speed Communicating or 24v



Compatible w/
DLCS & DLCSM
Only

FEATURES

- Factory installed EEV
- Variable Speed EC
- Dehumidification Mode
- Units tested and certified by manufacturer to achieve a 2% or less leakage rate at 1.0 inch water column

EASY TO INSTALL & SERVICE

- Multi position (4 way)
- Compatible w/ 24v thermostats

OPTIONS

- Field installed heater packages from 5 kw - 25 kw available
- Communicating Control or 24v optional

WARRANTY

- **Residential: 10 year No Hassle Replacement™ limited warranty**
 - 5 Year Limited parts warranty standard
 - 10 Year Limited parts w/ timely registration (Not Transferrable)



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

24v Ducted AHU w/ Built in Interface							
DLFSABH18XBK	1.5	20	12.5	10	20,000	21,000	DLCSRBH18AAK
DLFSABH24XBK	2.0	21	12.5	11.6	26,000	29,000	DLCSRBH24AAK
DLFSABH30XBK	2.5	19	11.1	10	31,200	32,000	DLCSRBH30AAK
DLFSABH36XBK	3.0	17	8.8	11.3	41,000	43,000	DLCSRBH36AAK



DLFSAB: Optional Electric Heat Kits		
EHKMB05KN	5 kw	18-36
EHKMB08KN	8 kw	18-48
EHKMB10KN	10 kw	18-60
EHKMB20KN	20 kw	36-60
EHKMB25KN	25 kw	60 Only

Optional Communicating Wall Control	
KSACN0101AAA	All DLFS Series Ducted Units

How Water Coils page 57

SPLIT A/C
SPLIT HEAT PUMPS
AIR HANDLING UNITS
FURNACE COILS
FURNACE 80%
FURNACE 90%
OIL FURNACES
PACKAGE UNITS



UNITED REFRIGERATION INC.

Bindus Aquecoil

AFTER MARKET AIR HANDLER MOUNTED HOT WATER DUCT COIL



- Exact fit on Arcoaire Air Handlers (Supply)
- Painted Cabinet
- 8" Cabinet height
- Insulated Cabinet
- Low Static 2 Row Coil
- 3 Year Warranty
- Pump not included
 - Boiler: Std Circulator
 - DHW: Requires Brass or SS Pump
- Use w/ Factory Matchd/AHRI Certified System, and Retain Factory System Warranty



UNIT PERFORMANCE DATA					
Model Number	Operating Dimensions width x depth in.	Height	Plenum Dimensions	Maximum BTU/h Heat @ 180 Deg (F)	Max CFM
C1	14 5/16 X 22 1/16	8"	12 5/16 x 18	41,250	600
C2	17 5/8 X 22 1/16		15 5/8 x 18	56,750	800
C3	21 1/8 X 22 1/16		19 1/8 x 18	80,500	1200
C-4	24 11/16 X 22 1/16		22 11/16 x 18	97,750	1800
C-5	25 3/4 X 22 1/16		23 3/4 x 18	102,250	2000

Aquecoil Hot Water Coils are designed to match the exact width of your air handling unit.

NOMINAL PRODUCT PERFORMANCE										
HHU MODEL	Air Flow (scfm)	Static Pres. [ADP] (*mg)	Water Flow (gpm)	Pump Head [WPD]	← 140°F Entering Water [EWT] →			← 180°F Entering Water [EWT] →		
					Leaving Water [LWT] (°F)	Leaving Air** [LAT] (DB) (°F)	Heat (BTUH)	Leaving Water [LWT] (°F)	Leaving Air** [LAT] (DB) (°F)	Heat (BT UH)
C-1	600	.11	4	2.3	126	109	26,750	150	133	42,000
C-2	800	.13	4	2.6	123	105	32,750	154	128	51,500
C-2	1000	.19	4	2.6	121	102	36,250	151	121	57,000
C-2	1200	.25	4	2.6	120	96	39,000	146	116	61,750
C-3	1200	.19	6	6.2	124	103	46,000	155	124	72,000
C-3	1400	.24	6	6.2	123	101	49,250	153	115	77,500
C-3	1600	.30	6	6.2	122	56	52,000	152	115	82,000
C-4	1600	.22	9	5.1	126	102	59,500	159	122	93,750
C-4	1800	.26	9	5.1	126	100	62,750	157	112	99,000
C-5	2000	.31	9	5.1	125	96	65,750	156	116	103,500

** 40°F Entering Air is used for all calculations. **



SPLIT A/C
SPLIT HEAT PUMPS
AIR HANDLING UNITS
FURNACE COILS
FURNACE 80%
FURNACE 90%
OIL FURNACES
PACKAGE UNITS

FJM4X Accessories		
Description	Part No.	Used With
Disconnect Kit	EBAC01DSC	All single phase 3–10 kW
Downflow Base Kit	EBAC01NCB	18
	EBAC02NCB	24, 30, 36
	EBAC03NCB	42, 48
	EBAC04NCB	60
Downflow Conversion Kit†	EBAC01DFS	Slope Coil units - 18, 24
	EBAC01DFA	A-Coil Units - 30, 36, 42, 48, 60
Downflow/Horizontal Conversion Gasket Kit	EBAC01GSK	All
Horizontal Water Management Kit (25 Pack)‡	NAMA00125HC	A-Coil Units - 30, 36, 42, 48, 60
Single Point Wiring Kit	EBAC01SPK	15–20 kW fused heaters only
Filter Kit (12 pack)	EBAC01FKS	18
	EBAC01FKM	24, 30, 36
	EBAC01FKL	42, 48
	EBAC01FKL	60
"Fan Coil Filter Cabinet (Fan Coil Filter Media)"	NAMA0140FL	18
	NAMA0170FL	24, 30, 36
	NAMA2100FL	42, 48
	NAMA0240FL	60
PVC Condensate Trap Kit (50 pack)	EBAC01CTK	All
Air Cleaner 240v Conversion Kit	NAMA00101VC	All
Accessory Quick Connect Kit	NAMA00110QC	All
Standard Filter Rack Kit	NASA00101FR	18
	NASA00201FR	24, 30, 36
	NASA00301FR	42, 48
	NASA00301FR	60
TXV Kit R-410A Refrigerant, Aluminum Coils Only	NAEB20101TX	18, 24, 30, 36, 42
	NAEB20201TX	48
	NAEB20301TX	60
	NAEB20401TX	60
Door Gasket Kit	344994-751**	All

* Factory authorized and listed, field installed.
† KFAHD0101SLP must also be purchased for downflow applications

‡ KFAHD0101SLP must also be purchased for downflow or horizontal applications.
** This kit is for replacement of factory installed gaskets if they are damaged or removed from the fan coil.

ACCESSORY ELECTRIC HEATERS (WITH RELAYS FOR ADDED COMFORT AND PERFORMANCE)						
HEATER PART NO.	kW @ 240V	VOLTS/PH	STAGES (kW OPERATING)	INTERNAL CIRCUIT PROTECTION	FAN COIL SIZE USED WITH	HEATING CAP.** @ 230V
EHC05CKN1	3	230/1	3	None	18, 24	9,400
EHC07CKN1	3	230/1	3	None	18	9,400
EHC10CKN1	5	230/1	5	None	18–60	15,700
EHC05BKN1	5	230/1	5	None	18	15,700
EHC07BKN1	8	230/1	8	None	18–60	25,100
EHC10BKN1	8	230/1	8	None	18	25,100
EHC20BKF1	10	230/1	10	None	18–60	31,400
EHC05CKB1	10	230/1	10	None	18	31,400
EHC07CKN1	10	230/1	10	Circuit Breaker	18	31,400
EHC07CKN1	20	230/1	5, 20	Fuse‡	30–60	62,800
EHC05BKB1	15	230/3	5, 15	None	36–60	47,100
EHC07BKB1	18	230/3	6, 12, 18	None	42–60	56,500
EHC07BKB1	24	230/3*	8, 16, 24	Fuse	48, 60	78,300
EHC20BKB1	30	230/3*	10, 20, 30	Fuse	48, 60	94,100
EHC09BKCEN1	5	230/1	5	Circuit Breaker	18–60	15,700
EHC15BKF1	8	230/1	8	Circuit Breaker	18–60	25,100
EHC15BKB1	10	230/1	10	Circuit Breaker	18–60	31,400
EHC15BHN1	20	230/1	5, 20	Circuit Breaker	18–60	62,800
EHC18BHN1	9	230/1†	3, 9	None	36–60	28,200
EHC25BHCF1	15	230/1	5, 15	Fuse‡	24–60	47,100
EHC30BHCF1	15	230/1	5, 15	Circuit Breaker	24–60	47,100

* Field convertible to 1 phase
† Field convertible to 3 phase

‡ Single Point Wiring Kit required for these heaters in Canada.
** Blower Motor heat not included.

This document does not contain technical data controlled by the EAR or ITAR.



Accessories (TXV)

Part Number	Description	Use with Model Size			
		FCM4X	FVM4X	FXM4X	FEM4X
EBAC01DSC	Disconnect Kit	use with All Single Phase Heaters 5 kW thru 10 kW			
EBAC01NCB	Downflow Base Kit	2400,3600, 4800	-	-	1800B, 2400B
EBAC02NCB		-	2400	1800, 2400	2400C, 3000B, 3600B
EBAC03NCB		-	3600, 4800	3000, 3600, 4200	4200B, 4800B, 6000B
EBAC04NCB		6000	6000	4800, 6000	-
EBAC01DFS		Downflow Conversion Kit Slope Coil	3600	3600	1800, 2400, 3000
EBAC02DFA	Downflow Conversion Kit A-Coil	2400, 4800, 6000	2400, 4800, 6000	3600, 4200, 4800, 6000	4200B, 4800B, 6000B
EBAC01SPK	Single Point Wiring Kit	only for use with 15 kW & 20 kW fused heaters			
EBAC01FKS	Filter Kit (washable, box of 12)	-	-	-	1800B
EBAC01FKM		2400*	2400*	1800*, 2400*	2400C, 3000B, 3600B
EBAC01FKL		3600*, 4800*	3600*, 4800*	3000*, 3600*, 4200*	4200B*, 4800B*, 6000B
EBAC01FKX		6000*	6000*	4800*, 6000*	-
NASA00101FR		12 x 20 x 1 inches (305x508x250 mm) Standard Filter Rack	-	-	-
NASA00201FR	16 x 20 x 1 inches (406x508x250 mm) Standard Filter Rack	2400	2400	1800, 2400	2400C, 3000B, 3600B
NASA00301FR	20 x 20 x 1 inches (508x508x250 mm) Standard Filter Rack	3600, 4800	3600, 4800	3000, 3600, 4200	4200B, 4800B, 6000B
NASA00401FR	12 x 20 x 1 inches (305x508x250 mm) Standard Filter Rack (qty 2)	6000*	6000*	4800*, 6000*	-
EBAC01PLG	No Heat (Plug) Kit (box of 6)	ALL (Factory Installed)			
EBAC01GSK	Horizontal & Downflow Gasket Kit	ALL (required for horizontal right only)		ALL (required for horizontal right and downflow)	
TSAT0201CW	Observer Self Configuring, Communicating Wall Control	ALL	-	-	-
NAEA20101TX	TXV Kit, R-22, Copper and Tin Coils Only	2400, 3600	2400, 3600	1800, 2400, 3000, 3600, 4200	1800, 2400, 3000, 3600, 4200
NAEA20201TX		4800, 6000	4800, 6000	4800	4800, 6000
NAEB20101TX	TXV Kit, R-22, Aluminum Coils Only	2400AL, 3600AL	2400AL, 3600AL	1800AL, 2400AL, 3000AL, 3600AL, 4200AL	1800BL, 2400BL, 2400CL, 3000BL, 3600BL, 4200BL
NAEB20201TX		4800AL, 6000AL	4800AL, 6000AL	4800AL, 6000AL	4800BL
NAEB20301TX		-	-	-	6000BL

*Factory Supplied



Fan Coil Roadmap - Multifamily -

Pre-2023

2023

Multifamily



FMA4X No Change
Single-Stage
FCT-5 Motor

FMA4P No Change
Single-Stage
PSC Motor

FMC/U4Z No Change
Single-Stage
FCT-5 Motor

FMC/U4X No Change
Single-Stage
PSC Motor

FMA4X
Single-Stage
FCT-5 Motor

FMA4P
Single-Stage
PSC Motor

FMC/U4Z
Single-Stage
FCT-5 Motor

FMC/U4X
Single-Stage
PSC Motor



Multifamily Fan Coils	1	2	3	4	5	6 7 8 9	10	11
Title	Unit	Type	Installation Type	Refrigerant Type	Metering Device	Nominal Cooling Capacity	Revision	Sales Code/ Features
Product #/Letter	F	M	U	4	Z	2400	A	L
Descriptions	F = Fan Coil	M = Multifamily	U = Uncased C = Cased A = Apartment	4 = R-410A	X = TXV & PSC Motor Z = TXV & ECM Motor	1800 = 18,000 = 1.5 tons 2400 = 24,000 = 2 tons 3000 = 30,000 = 2.5 tons 3600 = 36,000 = 3 tons	A = Marketing Revision	L = Aluminum Coils

Motor Key: VCA = Variable-Speed Constant Airflow Motor | FCT = Fixed-Speed Constant Torque Motor | PSC = Permanent Split Capacitor



Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

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UNITED REFRIGERATION INC.



FMA4(X)(P) Front Return Fan Coils



FEATURES

Factory installed piston metering device (R410A)

- Factory installed TXV (4X) - Piston (4P)
- EC motor (4X) - PSC Motor (4P)
- Motor suspended on rubber grommets for quieter operation
- Standard return air grille panel and is convertible to bottom return
- Replaceable air filter factory supplied with all models
- Fully insulated for conditioned space
(not to be installed in unconditioned spaces)

INSTALLATION

- Upflow application only
- 208/230-1-60 supply voltage
- Fresh air intake holes (capped from factory)

CONSTRUCTION

- Units fits between standard stud spacing
- All service access is located in the front
- Primary and secondary drain connections exit from the bottom
- No return-air ductwork required in specific applications

WARRANTY*

- Residential: 10 year limited parts warranty w/ timely registration
 - 5 Year Limited parts warranty standard



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

UNIT PERFORMANCE DATA (TXV)

Model Number	Size (tons)	CFM Lo	CFM Hi	Operating Dimensions		Plenum	Filter Size in.	Ship Weight lbs.
				Height	Width x Depth			
FMA4X1800AL	1-1/2	450	675	36-1/2	20-1/2 x 15	17-2/5 x 9-1/2	16 x 20	101
FMA4X2400AL	2	600	900					
FMA4X3000AL	2-1/2	750	1125	39-1/2	22 x 19	18-4/5 x 9-1/2	20 x 20	123
FMA4X3600AL	3	900	1350					

UNIT PERFORMANCE DATA (PISTON)

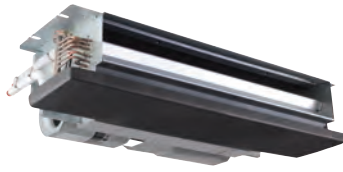
Model Number	Size (tons)	CFM Lo	CFM Hi	Operating Dimensions		Plenum	Filter Size in.	Ship Weight lbs.
				Height	Width x Depth			
FMA4P1800AL	1-1/2	450	675	36-1/2	20-1/2 x 15	17-2/5 x 9-1/2	16 x 20	101
FMA4P2400AL	2	600	900					
FMA4P3000AL	2-1/2	750	1125	39-1/2	22 x 19	18-4/5 x 9-1/2	20 x 20	123
FMA4P3600AL	3	900	1350					

ACCESSORIES for FMA4

Part Number	Description	Use with
EHK205B	5 kW, single phase	ALL
EHK208B	7.5 kW, single phase	ALL
EHK210B	10 kW, single phase	ALL
AMWK001WG	Louvered Wall Panel with Frame (6 Pack)	18, 24
AMWK002WG	Louvered Wall Panel with Frame (6 Pack)	30, 36
NAEA20101TX	TXV Kit, R-22	18, 24, 30, 36
NAEA40501TX	TXV Kit, R-410A	18, 24, 30
NAEA40601TX	TXV Kit, R-410A	36
EBAC01CTK	PVC Condensate Trap Kit (box of 50)	ALL



UNITED REFRIGERATION INC.



FMU4Z Ceiling Fan Coils

FEATURES

- Factory installed TXV
- PSC motor (4X), EC Motor (4Z)

INSTALLATION

- Horizontal application only
- 208/230-1-60 supply voltage
- Sweat Connections

CONSTRUCTION

- Bottom Return
- A Coil design for maximum coil surface area
- Multiple Electrical, Line Set & Drain Access Points
- Aluminum Tube / Aluminum Fin Coil

WARRANTY*

- Residential: 5 year parts limited warranty standard
- 10 year parts limited warranty with timely registration (Not Transferrable)



FMC4X (Cased)

- Horizontal Return requires field fabricated bottom cover
- Meets 2% Cabinet Leakage Requirement
- Refrigerant Connections through back or side
- Drain Connections through back or side



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

UNIT PERFORMANCE DATA

Model Number	Size (tons)	CFM	Operating Dimensions height x width x depth in.	Filter	Weight lbs.
FMU4*1800L	1.5	600	10-1/4 x 37-1/4 x 26-3/8	(2) 16 x 20 x 1	75
FMU4*2400L	2	800			
FMU4*3000L	2.5	1,000	10-1/4 x 49-1/4 x 26-3/8	(2) 20 x 20 x 1	93
FMU4*3600L	3	1,200			
FMC4*1800L	1.5	600	11 x 39-3/4 x 27-3/4	(2) 16 x 20 x 1	109
FMC4*2400L	2	800			
FMC4*3000L	2.5	1,000	11 x 51-3/4 x 27-3/4	(2) 20 x 20 x 1	135
FMC4*3600L	3	1,200			

*X = TXV/PSC Z=TXV/ECM (Non Stock) Accessories page 47

ACCESSORIES for FMU4 & FMC4

Part Number	Description	Use with
EHK305B	5 kW, single phase	ALL
EHK308B	7.5 kW, single phase	ALL
EHK310B	10 kW, single phase	ALL
NASA00101GF	Louvered Wall Panel with Filter Rack - Small	18, 24
NASA00201GF	Louvered Wall Panel with Filter Rack - Large	30, 36
NASA00101CC	Access Panel - Small	18, 24
NASA00201CC	Access Panel - Large	30, 36
NAEA20101TX	TXV Kit, R-22	18, 24, 30, 36
NAEA40501TX	TXV Kit, R-410A	18, 24, 30
NAEA40601TX	TXV Kit, R-410A	36
EBAC01CTK	PVC Condensate Trap Kit (box of 50)	ALL

KN = 1-phase KB = 1-phase T.B. - terminal block
 HB = 3-phase C.B. = circuit breaker

Power-V Technology

INTRODUCING THE ARCOAIRE® V-COIL WITH POWER-V TECHNOLOGY

Arcoaire V-shaped evaporator coils are 2023-ready with increased equipment efficiency and reduced weight of equipment.

WHY DO WE NEED A NEW COIL DESIGN?

Our commitment to excellence continues to be driven by meeting the needs of our distributors and dealers; satisfying homeowners who depend upon our products for comfort; and, offering products that satisfy an evolving list of regulatory requirements.

Our current coil technology has served us well for decades. As we continue looking for measured improvements in the efficiency and performance of our cooling systems, continuing with the current coil design creates a number of challenges. These challenges include:



- Increased cabinet heights due to an increase in refrigerant circuit sizes
- Difficulties meeting the SEER2 ratings using M1 testing procedures
- Larger coils leading to increased pressure drop from the same airflow velocity
- Extensive ductwork modifications to accommodate larger cabinet sizes

The V-coil with Power-V Technology addresses each of these challenges plus offers additional benefits in the area of installation and service.



POWER-V
TECHNOLOGY

NEW DESIGN = NEW BENEFITS

Our V-coil, with sixteen patents pending, is packed with innovative design features that increase efficiency, extend coil life, enhance corrosion resistance, and deliver many other advantages.

Improved Airflow

The V-coil configuration provides for more uniform airflow over coil, resulting in:

- Improved heat transfer
- Less pressure drop
- Increased system efficiency

Corrosion Resistance

The V-coil with Power-V Technology was designed to have improved corrosion resistance so as to extend the life of the coil:

- Aluminum coil to reduce corrosion
- V-shape better manages condensate runoff, channeling water away from superheated top of coil
- Reduced number of manually brazed joints from 13 down to just three

Ease of Install and Service

The V-coil was designed to make install and service easier for service technicians:

- Can be used in vertical up/down flow applications and horizontal multi-poise applications
- Coils slide in/out on easy access rail system
- Easily replace the TXV without removing the coil itself
- Up to 46% lighter than A-coils, up to 37% lighter than N-coils

Legacy Design Elements

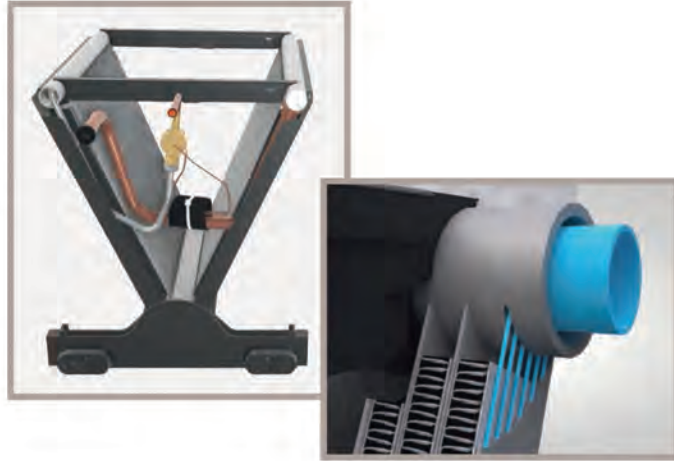
The V-coil maintains some of the legacy coil design elements for consistency in installation:

- System charging the same
- TXV install the same
- 3/8" liquid line inlet the same
- Line-set connections the same

Power-V Technology

WHAT DOES THE NEW COIL LOOK LIKE?

The new evaporator coil incorporates flat, aluminum refrigerant channels with brazed-on ridged aluminum fins. It is configured in a "V" shape with the header tubes positioned at top. The resulting geometry provides improved heat transfer, more uniform and controlled airflow over the coil, and a lighter, corrosion-resistant coil.



WHY SHOULD I BE CONFIDENT IN THE V-COIL WITH POWER-V TECHNOLOGY?

Our engineers designed and tested these new coils specifically to address coil leakage concerns and enhance condensate management.

Addressing leakage, the #1 issue with cooling coils

The new V-coil design reduces the number of manually brazed joints from thirteen down to just three - reducing the areas of potential leakage.

The V-shaped design also relocates tube-to-header joints to the top of the coil. In an "A" configuration, these joints would be sitting in the condensate, making them more susceptible to corrosion. Moving these joints to the top of the V-coil and out of the condensate improves the life of the coil.

Enhanced condensate management

Condensate on the V-coil flows against the refrigerant dry-out side of the coil. Water is channeled away from the superheated top region of the coil, eliminating the occurrence of condensate blow-off. The 'V' orientation also reduces the amount of internal cabinet surface area exposed to conditioned air, presenting less potential for sweating.



EASY, FLEXIBLE INSTALLATION & SERVICE

Upgrading to a new V-coil with Power-V Technology will be just as easy as replacing one of our current coils, and servicing them got that much easier as well.

What's staying the same:

- Footprint of coil
- 3/8" liquid inlet
- Current line set connections
- Set TXV
- System charging
- Packaging

What's being improved:

- Condensate drain options on both sides of the coil
- Up to 37% lighter than current N-coils and up to 46% lighter than current A-coils
- Easy to install UV light via front panel

What about service?

- Open access to both sides of the coil to inspect and clean
- Coil slides in/out on an easy-to-access rail system
- Replace TXV without removing coil

ADP Aftermarket "A" Coils A/C or Heat Pump Up Flow Only Cased "A" Coils



FEATURES

- Aluminum Tube/Aluminum Fin
- Painted Cabinet
- Plenum Flanges with Rounded Corners
- 4 Screws - Easy Access Panel
- Non Captive Refrigerant Lines
- Factory Installed A/C HP TVX (R410A)
- Dual Drain Connections
- Micro Ban Drain Pan
- AHRI Rated Arcoaire
- Up flow only. Down flow on select sizes, consult the ADP Spec SMC sheet
- 10 Year Warranty w/ Timely Registration @ adpnow.com

AHRI Matched
w/ R & N Series
Arcoaire Units



UNIT PERFORMANCE DATA														
Model Number	Size (tons)	PD*							Height	Width	Depth	Supply Plenum	LL	SL
		1.5	2.0	2.5	3.0	3.5	4.0	5.0						
GG32936D142B1605AP	1-1/2 - 3		.21	.25	.3				16-1/2	14-1/4	20-5/8	12-1/2 x 18-9/16	3/8	3/4
GG32936D175B1605AP	1-1/2 - 3		.17	.20	.27				16-1/2	17-1/2	20-5/8	15-3/4 x 18-9/16	3/8	3/4
GG32936D210B1605AP	1-1/2 - 3		.17	.20	.27				16-1/2	21	20-5/8	19-1/4 x 18-9/16	3/8	3/4
GG35948D175B2205AP	3-1/2 - 4				.24	.27	.3		22-1/2	17-1/2	20-5/8	15-3/4 x 18-9/16	3/8	7/8
GG35948D210B2205AP	3-1/2 - 4				.20	.25	.3		22-1/2	21	20-5/8	19-1/4 x 18-9/16	3/8	7/8
GG35948D245B2205AP	3-1/2 - 4				.20	.25	.3		22-1/2	24-1/2	20-5/8	22-3/4 x 18-9/16	3/8	7/8
GG36960D210B2505AP	5							.3	25-1/2	21	20-5/8	19-1/4 x 18-9/16	3/8	7/8
GG36960D245B2505AP	5							.3	25-1/2	24-1/2	20-5/8	22-3/4 x 18-9/16	3/8	7/8

* PD @ 400 CFM/Ton

Arcoaire Condensing Unit	ADP Coil
R4A5S18AKAWAA	GG32936D***B1605AP
	GG33936D***B1805AP
	GG34936D***B2005AP
R4A5S24AKAWAA	GG32936D***B1605AP
	GG33936D***B1805AP
	GG34936D***B2005AP
R4A5S30AKAWAA	GG32936D***B1605AP
	GG33936D***B1805AP
	GG34936D***B2005AP
R4A5S36AKAWAA	GG32936D***B1605AP
	GG33936D***B1805AP
	GG34936D***B2005AP
R4A5S42AKAWAA	GG35948D***B2205AP
	GG1K948D***B2205AP
	GG36948D***B2505AP
R4A5S48AKAWAA	GG35948D***B2205AP
	GG1K948D***B2205AP
	GG36948D***B2505AP
R4A5S60AKAWAA	GG48960D***B2705AP
	GG36960D***B2505AP

Arcoaire Heat Pumps	ADP Coil
R4H5S18AKAWAA	TBA
R4H5S24AKAWAA	TBA
R4H5S30AKAWAA	TBA
R4H5S36AKAWAA	TBA
R4H5S42AKAWAA	TBA
R4H5S48AKAWAA	TBA
R4H5S60AKAWAA	TBA

Arcoaire Heat Pumps	ADP Coil
N4H5S18AKAWAA	TBA
N4H5S24AKAWAA	TBA
N4H5S30AKAWAA	TBA
N4H5S36AKAWAA	TBA
N4H5S42AKAWAA	TBA
N4H5S48AKAWAA	TBA
N4H5S60AKAWAA	TBA

Arcoaire Condensing Unit	ADP Coil
N4A5S18AKAWAA	GG32939D***B1605AP
	GG34936D***B2005AP
N4A5S24AKAWAA	GG32939D***B1605AP
	GG34936D***B2005AP
N4A5S30AKAWAA	GG32939D***B1605AP
	GG34936D***B2005AP
N4A5S36AKAWAA	GG32939D***B1605AP
	GG34936D***B2005AP
N4A5S42AKAWAA	GG35948D***B2205AP
	GG1K948D***B2205AP
N4A5S48AKAWAA	GG35948D***B2205AP
	GG1K948D***B2205AP
N4A5S60AKAWAA	GG48960D***B2705AP
	GG36960D***B2505AP



Furnace Coil Roadmap

Pre-2023

2023

A-Coils



EAM4X, EDM4X
Cased Multi-Poise

EAD4X
Cased Vertical

EAA4X
Uncased Vertical

No Change

EAM4X
Cased Multi-Poise

EAA4X
Uncased Vertical



N-Coils



END4X
Cased Vertical

ENW4X
Cased Transition

ENA4X
Uncased Vertical

ENH4X
Cased Horizontal

V-Coils



EVD4X
Cased Vertical
Power-V Technology

EVM4X
Cased Multi-Poise
Power-V Technology



Slab Coil



EHD4X
Cased Horizontal

No Change

EHD4X
Cased Horizontal



Mobile Home Coils

EMA4X No Change **EMA4X**
NADA **NADA**

Furnace Coils	1	2	3	4	5	6-7	8	9	10
Title	Component	Coil Type	Coil Configuration	Refrigerant Type	Metering Devices	Unit Capacity	Tubing Design	Cabinet Width	Major Series
Product #/Letter	E	A	D	4	X	18	L	17	A
Descriptions	E = Furnace Coil	A = A-Coil H = Slab V = V-Coil S = Slope M = Mobile Home	A = Uncased D = Vertical (UPF/DNF) M = Multi-Poise H = Horizontal R = Replacement	4 = R-410A	P = Piston X = TXV E = EXV	18/19 = 1.5 tons 24/25/26 = 2 tons 30/31 = 2.5 tons 36/37/38 = 3 tons 42/43 = 3.5 tons 48/49/50 = 4 tons 60/61 = 5 tons	L = Aluminum M = Power-V	14 = 14.2" wide 17 = 17.5" wide 21 = 21" wide 24 = 24.5" wide	A = Revision

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

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UNITED REFRIGERATION INC.



EVD/ESD 4X A/C Only Vertical Only Cased Power "V" Coils



FEATURES

- Corrosion Resistant Aluminum
- Low Pressure Drop
- TXV metering device factory installed
- Compact design, shorter than A-coils
- Hemmed flanges for safer handling
- Cabinets meet or exceed 2% air leakage codes
- UV knockout
- No delta plate allows easy cleaning
- 30-40% Lighter than "A" Coils
- 80% Fewer Factory Braze Joints vs. "N" Coils
- V Design Reduces Cabinet Sweating
- Helium leak tested @ the factory
- 10 Year limited parts warranty w/ timely registration

UNIT PERFORMANCE DATA								
Model Number	Nominal Tons	PD*	Width	Depth	Height	Supply Plenum	LL	SL
EVD4X18M14A	1-1/2	.18	14-3/16	21	14-11/16	12-1/2 x 18-9/16	3/8	3/4
EVD4X19M17A		.09	17-1/2	21	19-7/16	15-3/4 x 18-9/16	3/8	3/4
EVD4X24M14A	2	.29	14-3/16	21	14-11/16	12-1/2 x 18-9/16	3/8	3/4
ESD4X24M14A		.24	14-3/16	21	25-27/32	12-1/2 x 18-9/16	3/8	3/4
EVD4X24M17A		.25	17-1/2	21	14-11/16	15-3/4 x 18-9/16	3/8	3/4
EVD4X25M17A		.14	17-1/2	21	19-7/16	15-3/4 x 18-9/16	3/8	3/4
EVD4X30M14A	2-1/2	.30	14-3/16	21	17-1/16	12-1/2 x 18-9/16	3/8	3/4
EVD4X30M17A		.21	17-1/2	21	19-7/16	15-3/4 x 18-9/16	3/8	3/4
EVD4X31M17A		.13	17-1/2	21	25-13/16	15-3/4 x 18-9/16	3/8	3/4
EVD4X36M17A	3	.29	17-1/2	21	19-7/16	15-3/4 x 18-9/16	3/8	3/4
EVD4X38M17A		.14	17-1/2	21	29-3/4	15-3/4 x 18-9/16	3/8	3/4
EVD4X36M21A		.26	21	21	19-1/16	19-1/4 x 18-9/16	3/8	3/4
EVD4X37M21A		.19	21	21	21-15/16	19-1/4 x 18-9/16	3/8	3/4
EVD4X42M17A	3-1/2	.34	17-1/2	21	19-1/4	15-3/4 x 18-9/16	3/8	7/8
EVD4X42M21A		.35	21	21	19-1/16	19-1/4 x 18-9/16	3/8	7/8
EVD4X42M24A		.16	24-1/2	21	26-5/16	22-3/4 x 18-9/16	3/8	7/8
EVD4X48M21A	4	.34	21	21	21-15/16	19-1/4 x 18-9/16	3/8	7/8
EVD4X48M24A		.28	24-1/2	21	22-1/16	22-3/4 x 18-9/16	3/8	7/8
EVD4X49M24A		.21	24-1/2	21	26-5/16	22-3/4 x 18-9/16	3/8	7/8
EVD4X60M24A	5	.21	24-1/2	21	26-5/16	22-3/4 x 18-9/16	3/8	7/8
EVD4X61M24A		.15	24-1/2	21	35	22-3/4 x 18-9/16	3/8	7/8

* PD @ 400 CFM/Ton



EVM4X A/C Only Multi Position Cased Power "V" Coils



FEATURES

- Corrosion Resistant Aluminum
- Low Pressure Drop
- TXV metering device factory installed
- Compact design, shorter than A-coils
- Hemmed flanges for safer handling
- Cabinets meet or exceed 2% air leakage codes
- UV knockout
- No delta plate allows easy cleaning
- 30-40% Lighter than "A" Coils
- 80% Fewer Factory Braze Joints vs. "N" Coils
- V Design Reduces Cabinet Sweating
- Helium leak tested @ the factory
- 10 Year limited parts warranty w/ timely registration

UNIT PERFORMANCE DATA

Model Number	Nominal Tons	PD*	Width	Depth	Height	Supply Plenum	Line Set
EVM4X24M17A	2	.24	17-1/2	21	14-11/16	15-3/4 x 18-25/32	3/8 - 3/4
EVM4X25M17A	2	.15	17-1/2	21	19-7/16	15-3/4 x 18-25/32	3/8 - 3/4
EVM4X30M17A	2-1/2	.23	17-1/2	21	19-7/16	15-3/4 x 18-25/32	3/8 - 3/4
EVM4X31M17A	2-1/2	.18	17-1/2	21	25-13/16	15-3/4 x 18-25/32	3/8 - 3/4
EVM4X32M17A	2-1/2	.17	17-1/2	21	29-3/4	15-3/4 x 18-25/32	3/8 - 3/4
EVM4X36M17A	3	.32	17-1/2	21	19-7/16	15-3/4 x 18-25/32	3/8 - 3/4
EVM4X42M21A	3-1/2	.31	21	21	19-7/16	19-1/4 x 18-25/32	3/8 - 7/8
EVM4X43M21A	3-1/2	.23	21	21	21-15/16	19-1/4 x 18-25/32	3/8 - 7/8
EVM4X44M21A	3-1/2	.15	21	21	29-3/4	19-1/4 x 18-25/32	3/8 - 7/8
EVM4X48M21A	4	.28	21	21	21-15/16	19-1/4 x 18-25/32	3/8 - 7/8
EVM4X49M21A	4	.18	21	21	29-3/4	19-1/4 x 18-25/32	3/8 - 7/8
EVM4X60M21A	5	.28	21	21	29-3/4	19-1/4 x 18-25/32	3/8 - 7/8
EVM4X60M24A	5	.32	24-1/2	21	26-5/16	22-3/4 x 18-25/32	3/8 - 7/8
EVM4X61M24A	5	.27	24-1/2	21	35	22-3/4 x 18-25/32	3/8 - 7/8

* PD @ 400 CFM/Ton

SPLIT A/C

SPLIT HEAT PUMPS

AIR HANDLING UNITS

FURNACE COILS

FURNACE 80%

FURNACE 90%

OIL FURNACES

PACKAGE UNITS



UNITED REFRIGERATION INC.



EAM4X A/C or Heat Pump Cased/Multi Position



FEATURES

- Corrosion resistant aluminum tube
- Bolt-on TXV metering device factory installed on all models (equalizer tube brazed in)
- TXV and manifold positioned to the side for easier cleaning
- Innovative drain pan design for complete water removal
- Two condensate drain connections (Additional two for horizontal installation)
- 2-piece delta plate for easier removal and cleaning
- Cabinet widths match flush with Arcoaire gas furnaces
- Hemmed flanges for safer handling
- Foil faced insulation
- Non-sweat cabinet, even at extreme conditions
- Cabinets meet or exceed 2% air leakage codes
- Sturdy, 22 gauge, pre-painted steel cabinet
- One or two UV light knock-outs provided on cabinet (depending on size)
- 10 Year limited parts warranty w/ timely registration

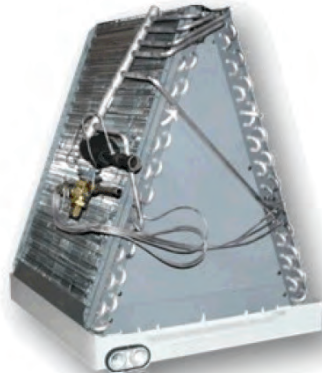


Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

UNIT PERFORMANCE DATA

Model Number	Size (tons)	PD	Width	Depth	Height	Supply Plenum	LL	SL
EAM4X18L14A	1-1/2	.151	14-3/16	20-5/8	25-13/16	12-7/16 x 18-11/16	3/8	5/8
EAM4X19L17A	1-1/2	.137	17-1/2	20-5/8	25-13/16	15-3/4 x 18-9/16	3/8	3/4
EAM4X24L14A	2	.203	14-3/16	20-5/8	25-13/16	12-7/16 x 18-11/16	3/8	5/8
EAM4X24L17A		.163	17-1/2	20-5/8	25-13/16	15-3/4 x 18-11/16	3/8	5/8
EAM4X25L17A		.164	17-1/2	20-5/8	29-3/4	15-3/4 x 18-9/16	3/8	3/4
EAM4X30L14A	2-1/2	.269	14-3/16	20-5/8	25-13/16	12-7/16 x 18-11/16	3/8	3/4
EAM4X30L17A		.186	17-1/2	20-5/8	25-13/16	15-3/4 x 18-11/16	3/8	3/4
EAM4X36L17A	3	.231	17-1/2	20-5/8	29-3/4	15-3/4 x 18-11/16	3/8	3/4
EAM4X37L17A		.160	17-1/2	20-5/8	25-13/16	15-3/4 x 18-9/16	3/8	3/4
EAM4X37L21A		.368	21	20-5/8	29-3/4	19-1/4 x 18-9/16	3/8	3/4
EAM4X36L21A		.240	21	20-5/8	29-3/4	19-1/4 x 18-11/16	3/8	3/4
EAM4X42L21A	3-1/2	.213	21	20-5/8	29-3/4	19-1/4 x 18-11/16	3/8	7/8
EAM4X42L24A		.182	24-1/2	20-5/8	29-3/4	22-3/4 x 18-11/16	3/8	7/8
EAM4X43L21A		.314	21	20-5/8	29-3/4	19-1/4 x 18-9/16	3/8	7/8
EAM4X48L17A	4	.379	17-1/2	20-5/8	35	15-3/4 x 18-11/16	3/8	7/8
EAM4X48L21A		.313	21	20-5/8	29-3/4	19-1/4 x 18-11/16	3/8	7/8
EAM4X48L24A		.241	24-1/2	20-5/8	29-3/4	22-3/4 x 18-11/16	3/8	7/8
EAM4X60L24A		5	.286	24-1/2	20-5/8	35	22-3/4 x 18-11/16	3/8
EAM4X61L24A	.420		24-1/2	20-5/8	35	22-3/4 x 18-9/16	3/8	7/8

* PD @ 400 CFM/Ton



EAA4X A/C or Heat Pump Uncased Coil

FEATURES

- Corrosion resistant aluminum tube
- Bolt-on TXV metering device factory installed on all models (equalizer tube brazed in)
- TXV and manifold positioned to the side for easier cleaning
- Innovative drain pan design for complete water removal
- Two condensate drain connections (Additional two for horizontal installation)
- 2-piece delta plate for easier removal and cleaning
- 10 Year limited parts warranty w/ timely registration



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UNIT PERFORMANCE DATA

Model Number	Size (tons)	PD	Width	Depth	Height	LL	SL
EAA4X24L14A	2	.194	13	20-1/8	17-3/4	3/8	5/8
EAA4X24L17A	2	.151	16	20-1/8	17-1/4	3/8	3/4
EAA4X30L14A	2-1/2	.248	13	20-1/8	21-7/8	3/8	5/8
EAA4X30L17A	2-1/2	.171	16	20-1/8	21-7/16	3/8	3/4
EAA4X36L17A	3	.189	16	20-1/8	23-9/16	3/8	3/4
EAA4X36L21A	3	.148	19	20-1/8	23	3/8	3/4
EAA4X42L21A	3-1/2	.183	19	20-1/8	25-1/16	3/8	7/8
EAA4X48L21A	4	.288	19	20-1/8	25-5/16	3/8	7/8
EAA4X48L24A	4	.222	23-5/16	20-1/8	24-13/16	3/8	7/8
EAA4X60L24A	5	.238	23-5/16	20-1/8	31-1/16	3/8	7/8

* PD @ 400 CFM/Ton

SPLIT A/C

SPLIT HEAT PUMPS

AIR HANDLING UNITS

FURNACE COILS

FURNACE 80%

FURNACE 90%

OIL FURNACES

PACKAGE UNITS



EHD4X A/C or Heat Pump Horizontal Slab Coils

FEATURES

- Horizontal, bi-directional airflow
- Bolt-on TXV metering device factory installed on all models (equalizer tube brazed in)
- Slide-out feature for easy cleaning
- Pre-painted steel cabinet
- Aluminum main tubing and aluminum fins (copper stubs for field connection)

WARRANTY*

- 10 Year limited parts warranty w/ timely registration



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

UNIT PERFORMANCE DATA						
Model Number	Size (tons)	PD*	Operating Dimensions height x width x depth in.	Plenum Opening	LL	SL
EHD4X24AAL	2	.198	28-3/8 x 11-3/4 x 24-1/16	16-1/16 x 21-1/8	3/8	5/8
EHD4X30AAL	2-1/2	.203	28-3/8 x 11-3/4 x 24-1/16	16-1/16 x 21-1/8	3/8	3/4
EHD4X36AAL	3	.245	28-3/8 x 11-3/4 x 28-13/16	23-1/16 x 21-1/8	3/8	3/4
EHD4X42AAL	3-1/2	.273	28-3/8 x 11-3/4 x 28-13/16	23-1/16 x 21-1/8	3/8	7/8
EHD4X48AAL	4	.325	30-3/8 x 11-3/4 x 28-13/16	23-1/16 x 21-1/8	3/8	7/8
EHD4X60AAL	5	.279	30-3/8 x 11-3/4 x 38-15/16	33-13/16 x 21-1/8	3/8	7/8

* PD @ 400 CFM/Ton

MOBILE HOME COILS



Smart Comfort Mobile Home Coils

UNIT PERFORMANCE DATA				
Model Number	Match with	Height	LL	SL
NADA43601CK	R4A3 & R4H4 24/30/36	16.51	3/8	3/4
NADA44801CK	R4A3 & R4H4 42/48	19.40	3/8	7/8

NADA Smart Comfort coils only fit in the Smart Comfort mobile home electric furnace model FEO.



ARCOAIRE Mobile Home Coils

UNIT PERFORMANCE DATA				
Model Number	Match with	Height	LL	SL
EMA4X24DAL	R4A3 24	12-5/8	3/8	5/8
EMA4X36DAL	R4A3 30/36	14-11/16	3/8	3/4
EMA4X48DAL	R4A3 42	18-3/4	3/8	3/4

Ships with fittings, adapter plates, drain hose and trap.



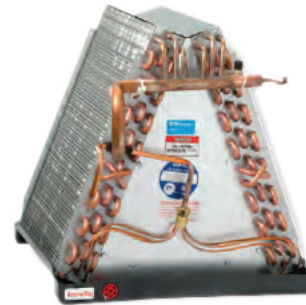
Mortex Mobile Home Coils

UNIT PERFORMANCE DATA				
Model Number	Match with	Height	LL	SL
96852D0P	R4A4S/R4A5S18&24	18-1/2	3/8	3/4
96854D0P	R4A4S / R4A5S30	18-1/2	3/8	3/4
96884Y0P	R4A4S / R4A5S36	18-1/2	3/8	3/4
97985Y0P	R4A4S & R4A5S42	20-1/2	3/8	7/8
98887Y0P*	R4A4S / R4A5S48	24-1/2	3/8	7/8

* Cabinet extension required for Guardian Electrical Furnace.
Will not fit in Guardian Gas Furnace

UNIT PERFORMANCE DATA				
Model Number	Match with	Height	LL	SL
94D83M7DAP	R4A4S18/24/30 R4A5S18/24	18	3/8	3/4
94D94M10YBP	R4A4S42/48 R4A5S42/48	20-1/2	3/8	7/8

94 Series Fit Smart Comfort Mobile Home Electric Furnaces



Entry Tier Furnace Enhancements

OPTIMIZING FOR 2023 SYSTEM RATINGS

The new 2023 Entry Tier furnaces will be optimized for the new testing procedures required for developing efficiency ratings. The new models will have airflows optimized for BOTH current and 2023 ratings requirements – so you can stock and sell this new product now to ensure a smooth transition prior to January 1, 2023.

One key change to help meet the M1 ratings is the increased number of airflow settings. Using a MCT blower motor, our new entry tier offering will have increased speed options – eighteen speeds in fact! This market-leading product feature makes it easier to right-size a system to a home's needs and results in improved application flexibility.

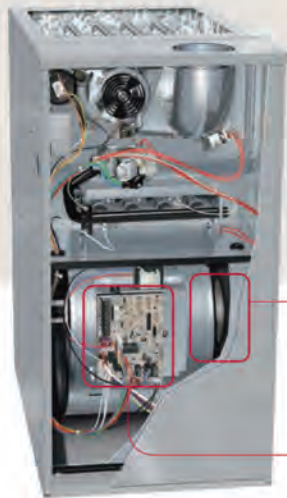
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- Use the improved FAST OEM Mobile Tech app featuring Near Field Communication (NFC) technology to help save time on installation and service calls. NFC allows for airflow and other control parameters to be setup through your mobile device while at the job site or at the warehouse utilizing the RNC Saved Favorites option. During service calls, technicians can use both the 7-segment display and the app to access system diagnostics, including: fault codes, run time, cycle data and more.

Coming soon: Check HVACpartners soon for a "How To" video on NFC and the FAST OEM Mobile Tech app.



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#2023READY

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Apple App Store



Google Play Store



80% Gas Furnace Roadmap

Pre-2023

2023 (Mid Year)



F80CTL
80% AFUE
Two-Stage Heating
Variable-Speed Cooling
VCA ECM Motor

Communicating

Ultra Low Nox
Communicating
CA Only

F80CS/F80TU*
80% AFUE
Single-/Two-Stage Heating
Variable-Speed Cooling
VCA ECM Motor

* Two-stage communicating model to launch late 2023.

F80CTL
80% AFUE
Two-Stage Heating
Variable-Speed Cooling
VCA ECM Motor

F80CTU
80% AFUE
Two-Stage Heating
Variable-Speed Cooling
VCA ECM Motor

Ion System



F80VTL
80% AFUE
Two-Stage Operation
VCT ECM Motor

F80VTL
80% AFUE
Two-Stage Operation
VCT ECM Motor

QuietComfort Series



N80VSL
80% AFUE
Single-Stage Heating
Two-Stage Cooling
VCT ECM Motor

N80VSL
80% AFUE
Single-Stage Heating
Two-Stage Cooling
VCT ECM Motor

Performance Series



N80ESN
80% AFUE
Single-Stage Operation
FCT-5 ECM Motor

N80MSN
80% AFUE
Single-Stage Operation
MCT-18 ECM Motor

N80ESL
80% AFUE
Single-Stage Operation
FCT-5 ECM Motor

Low NOx
(Limited Distribution)

N80MSL
80% AFUE
Single-Stage Operation
MCT-18 ECM Motor

N80ESU
80% AFUE
Single-Stage Operation
FCT-5 ECM Motor

Ultra-Low NOx
(CA Only)

N80MSU
80% AFUE
Single-Stage Heating
Two-Stage Cooling
MCT-18 ECM Motor

80% Gas Furnaces	1	2 - 3	4	5	6	7 - 8 - 9	10 - 11	12 - 13	14
Title	Brand Identifier	Product Efficiency Level	Motor	Heating Stages	Feature	Heating Input (BTU/H)	Width	Cooling CFM (100s)	Major Series
Product #/Letter	F	80	C	T	L	060	14	08	A
Descriptions	F = Deluxe N = Entry/	80 = 80% AFUE	C = Comm. VS Constant Airflow (VCA) ECM M = Multi 18-Speed Constant Torque (MCT) ECM V = VS Constant Torque (VCT) ECM	M = Modulating T = Two-Stage S = Single-Stage	N = Standard NOx L = Low NOx U = Ultra-Low NOx	040 = 40,000 * 045 = 45,000 060 = 60,000 * 070 = 70,000 080 = 80,000 * 090 = 90,000 100 = 100,000 * 110 = 110,000 135 = 135,000 155 = 155,000	14 = 14.2" 17 = 17.5" 21 = 21.0" 24 = 24.5"	08 = 800 10 = 1000 12 = 1200 14 = 1400 16 = 1600 20 = 2000 22 = 2200	A B C D

* ULN Models Only

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

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N80MSN(L) 80% AFUE Gas Furnace Single Stage



EASIER TO INSTALL

- Four position – up flow/down flow/horizontal installation
- 33-1/3" (847mm) high
- Electronic Air Cleaner & Humidifier terminals
- Factory shipped for natural gas, LP conversion kits available
- 18 speed EC constant torque motor (Set up w/ app)
- Twinning capable (select sizes) w/ kit

FLEXIBLE VENTING OPTIONS

- Category I venting (Common venting with other Category I appliances)
- Three position inducer elbow capability
- Masonry chimney adapter available
- Through the casing flue pipe for counter flow applications

RELIABLE

- RPJ Aluminized steel heat exchanger
- In-shot burners
- Direct ignition with Silicon Nitride igniter
- <2% all leakage @ 1" WC (ASHRAE 193)

EASIER TO SERVICE

- Innovative knobs for easy door removal and secure attachment
- Self diagnostics (3 digit code)

WARRANTY

Residential:

- 20 Year Heat Exchanger / 5 Year Limited Parts Standard
- 10 Year Limited Parts with Timely Registration (Not Transferrable)

Commercial: 10 Year Heat Exchanger / 1 Year Parts



Use of the AHRF Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahrfdirectory.org



Available
Mid 2023

UNIT PERFORMANCE DATA

Model Number	Heating Input	Heating Output	AFUE	CFM @ .5 in. w.c.	Height	Width x Depth	Plenum Size	Bottom Return	Side Return	Weight lbs.
N80MSN0451412A	44,000	36,000	80%	175-1095	33-1/3	14-3/16 x 29	12-9/16 x 19	12-11/16 x 21-5/8	14-7/8 x 22-1/16	108
N80MSN0451712A	44,000	35,000	80%	210-1285	33-1/3	17-1/2 x 29	15-7/8 x 19	16 x 21-5/8	14-7/8 x 22-1/16	121
N80MSN0701412A	66,000	54,000	80%	180-1115	33-1/3	14-3/16 x 29	12-9/16 x 19	12-11/16 x 21-5/8	14-7/8 x 22-1/16	114
N80MSN0701712A	66,000	54,000	80%	155-1160	33-1/3	17-1/2 x 29	15-7/8 x 19	16 x 21-5/8	14-7/8 x 22-1/16	124
N80MSN0701716A	66,000	54,000	80%	235-1700	33-1/3	17-1/2 x 29	15-7/8 x 19	16 x 21-5/8	14-7/8 x 22-1/16	127
N80MSN0702116A	66,000	53,000	80%	210-1820	33-1/3	21 x 29	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	140
N80MSN0901714A	88,000	71,000	80%	330-1490	33-1/3	17-1/2 x 29	15-7/8 x 19	16 x 21-5/8	14-7/8 x 22-1/16	133
N80MSN0902116A	88,000	72,000	80%	315-1565	33-1/3	21 x 29	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	141
N80MSN0902120A	88,000	71,000	80%	325-2315	33-1/3	21 x 29	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	147
N80MSN0902420A	88,000	72,000	80%	265-1980	33-1/3	24-1/2 x 29	22-7/8 x 19	23 x 21-5/8	14-7/8 x 22-1/16	150
N80MSN1102120A	110,000	90,000	80%	420-2350	33-1/3	21 x 29	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	150
N80MSN1102420A	110,000	90,000	80%	400-2005	33-1/3	24-1/2 x 29	22-7/8 x 19	23 x 21-5/8	14-7/8 x 22-1/16	165
N80MSN1352420A	132,000	107,000	80%	290-1925	33-1/3	24-1/2 x 29	22-7/8 x 19	23 x 21-5/8	14-7/8 x 22-1/16	167
N80MSN1552420A	154,000	125,000	80%	290-1985	33-1/3	24-1/2 x 29	22-7/8 x 19	23 x 21-5/8	14-7/8 x 22-1/16	171

N = Standard
L = Low NOx



N80VSL 80% AFUE Gas Furnace Single Stage VCT

MORE EFFICIENT

- Hi efficiency VCT Variable Speed Constant Torque Motor
- Dehumidification Feature
- Supports Single & 2 Stage Cooling
- Insulated Blower Compartment

EASIER TO INSTALL

- Four position – up flow/down flow/horizontal installation
- 33-1/3" (847mm) high
- Electronic Air Cleaner & Humidifier terminals
- Factory shipped for natural gas, LP conversion kits available

FLEXIBLE VENTING OPTIONS

- Category I venting (Common venting with other Category I appliances)
- Three position inducer elbow capability
- Masonry chimney adapter available
- Through the casing flue pipe for counter flow applications

RELIABLE

- RPJ Aluminized steel heat exchanger
- In-shot burners
- Direct ignition on with Silicon Nitride igniter

EASIER TO SERVICE

- Innovative knobs for easy door removal and secure attachment
- Self diagnostics

WARRANTY

Residential:

- 20 Year Heat Exchanger / 5 Year Limited Parts Standard
- 10 Year Limited Parts with Timely Registration (Not Transferrable)

Commercial: 10 Year Heat Exchanger / 1 Year Parts



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ISO 9001



- SPLIT A/C
- SPLIT HEAT PUMPS
- AIR HANDLING UNITS
- FURNACE COILS
- FURNACE 80%
- FURNACE 90%
- OIL FURNACES
- PACKAGE UNITS

UNIT PERFORMANCE DATA										
Model Number	Heating Input	Heating Output	AFUE	CFM @ .5 in. w.c.	Height	Width x Depth	Supply Plenum	Bottom Return	Side Return	Weight lbs.
N80VSL0451412A	44,000	35,000	80%	380-1310	33-1/3	14-3/16 x 29	12-9/16 x 19	12-11/16 x 21-5/8	14-7/8 x 22-1/16	112
N80VSL0451716A	44,000	35,000	80%	390-1350	33-1/3	17-1/2 x 29	15-7/8 x 19	16 x 21-5/8	14-7/8 x 22-1/16	120
N80VSL0701716A	66,000	54,000	80%	590-1720	33-1/3	17-1/2 x 29	15-7/8 x 19	16 x 21-5/8	14-7/8 x 22-1/16	129
N80VSL0702120A	66,000	53,000	80%	505-1775	33-1/3	21 x 29	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	141
N80VSL0902120A	88,000	71,000	80%	445-1915	33-1/3	21 x 29	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	143
N80VSL0902420A	88,000	72,000	80%	585-1980	33-1/3	24-1/2 x 29	22-7/8 x 19	23 x 21-5/8	14-7/8 x 22-1/16	150
N80VSL1102422A	110,000	90,000	80%	495-2280	33-1/3	24-1/2 x 29	22-7/8 x 19	23 x 21-5/8	14-7/8 x 22-1/16	153.5

* N = Standard
L = Low NOx

Accessories page 87



F80VTL 80% AFUE Gas Furnace Two Stage VCT

MORE EFFICIENT

- Hi efficiency VCT Variable Speed Constant Torque Motor
- Dehumidification Feature
- Supports 2 Stage Cooling
- Insulated Blower Compartment

EASIER TO INSTALL

- Four position – up flow/down flow/horizontal installation
- 33-1/3" (847mm) high
- Electronic Air Cleaner & Humidifier terminals
- Factory shipped for natural gas, LP conversion kits available

FLEXIBLE VENTING OPTIONS

- Category I venting (Common venting with other Category I appliances)
- Three position inducer elbow capability
- Masonry chimney adapter available
- Through the casing flue pipe for counter flow applications

RELIABLE

- RPJ Aluminized steel heat exchanger
- In-shot burners
- Direct ignition with Silicon Nitride igniter

EASIER TO SERVICE

- Innovative knobs for easy door removal and secure attachment
- Self diagnostics

WARRANTY

Residential:

- 20 Year Heat Exchanger / 5 Year Limited Parts Standard
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UNIT PERFORMANCE DATA

Model Number	Heating Input	Heating Output	AFUE	CFM @ .5 in. w.c.	Height	Width x Depth	Supply Plenum	Bottom Return	Side Return	Weight lbs.
F80VTL0451412	29,000 - 44,000	23,000 - 35,000	80%	410-1175	33-1/3	14-3/16 x 24	12-9/16 x 19	12-11/16 x 21-5/8	14-7/8 x 22-1/16	111
F80VTL0701716	43,500 - 66,000	35,000 - 53,000	80%	300-1740	33-1/3	17-1/2 x 24	15-7/8 x 19	16 x 21-5/8	14-7/8 x 22-1/16	132
F80VTL0902120	58,000 - 88,000	47,000 - 71,000	80%	225-1915	33-1/3	21 x 24	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	142
F80VTL1102822	72,500 - 110,000	59,000 - 89,000	80%	700-2230	33-1/3	21 x 24	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	154

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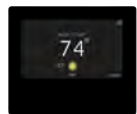
Accessories page 87



UNITED REFRIGERATION INC.



F80CTL 80% AFUE Gas Furnace Two-Stage/Variable Speed /Communicating



SYST0101CW

MORE EFFICIENT

- 2 Stage Gas Valve & Inducer Motor
- High Efficiency Variable Speed Constant CFM Motor
- Dehumidification Feature
- Insulated Blower Compartment
- Supports 2 Stage Cooling
- Low NOx CA approved

EASIER TO INSTALL

- Four position - upflow/downflow/horizontal installation
- 33-1/3" (847mm) high
- Electronic Air Cleaner & Humidifier terminals
- Factory shipped for natural gas, with Propane gas conversion kits available

FLEXIBLE VENTING OPTIONS

- Category I venting (Common venting with other Category I appliances)
- Three position inducer elbow capability
- Masonry chimney adapter available
- Through the casing flue pipe for counterblow applications

RELIABLE

- RPJ Aluminized steel heat exchanger
- In-shot burners
- Direct ignition with Silicon Nitride Ignitor

EASIER TO SERVICE

- Innovative knobs for easy door removal and secure attachment
- Self diagnostics

WARRANTY

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UNIT PERFORMANCE DATA

Model Number	Heating Input (MBTUH)	Heating Output	Efficiency AFUE	Cooling Capacity CFM range @ .5 in. w.c.	Height	Width x Depth	Supply Plenum	Bottom Return	Side Return	Weight lbs.
F80CTL0451712A	29,000 - 44,000	23,000 - 35,000	80%	550-1345	33-1/3	17-1/2 x 29	15-7/8 x 19	16 x 21-5/8	14-7/8 x 22-1/16	126
F80CTL0701412A	43,500 - 66,000	35,000 - 54,000	80%	485-1395	33-1/3	14-3/16 x 29	12-9/16 x 19	12-11/16 x 21-5/8	14-7/8 x 22-1/16	107
F80CTL0701716A	43,500 - 66,000	35,000 - 53,000	80%	505-1375	33-1/3	17-1/2 x 29	15-7/8 x 19	16 x 21-5/8	14-7/8 x 22-1/16	126
F80CTL0702120A	43,500 - 66,000	35,000 - 53,000	80%	790-2150	33-1/3	21 x 29	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	146
F80CTL0901716A	58,000 - 88,000	47,000 - 71,000	80%	475-1595	33-1/3	17-1/2 x 29	15-7/8 x 19	16 x 21-5/8	14-7/8 x 22-1/16	126
F80CTL0902120A	58,000 - 88,000	47,000 - 71,000	80%	730-2330	33-1/3	21 x 29	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	146
F80CTL1102120A	72,000 - 110,000	59,000 - 89,000	80%	700-2155	33-1/3	21 x 29	19-3/8 x 19	19-1/2 x 21-5/8	14-7/8 x 22-1/16	152
F80CTL1352422A	87,000 - 132,000	70,000 - 107,000	80%	690-2265	33-1/3	24-1/2 x 29	22-7/8 x 19	23 x 21-5/8	14-7/8 x 22-1/16	163

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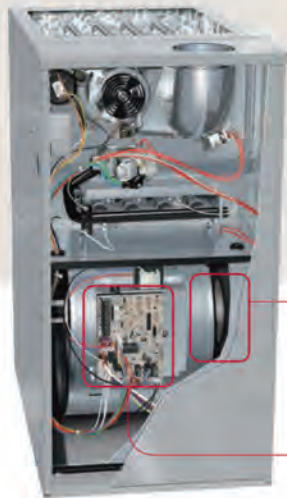
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Apple App Store



Google Play Store



90% Gas Furnace Roadmap

Pre-2023

2023 (Mid Year)

	F97CMN Communicating Up to 98% AFUE Modulating Heating Variable-Speed Cooling VCA ECM Motor		
	F96CTN Communicating Up to 96.7% AFUE Two-Stage Heating Variable-Speed Cooling VCA ECM Motor		F97CMN Ion™ System Up to 98% AFUE Modulating Heating Variable-Speed Cooling VCA ECM Motor
	F95CSU Communicating Ultra-Low NOx (CA Only) Up to 95% AFUE Single-Stage Heating Variable-Speed Cooling VCA ECM Motor		F96CTN Up to 96.7% AFUE Two-Stage Heating Variable-Speed Cooling VCA ECM Motor
	F96VTN Up to 96% AFUE Two-Stage Operation VCT ECM Motor		
	F96VTN QuietComfort® Series Up to 96.5% AFUE Two-Stage Operation VCT ECM Motor		F96VTN Up to 96.5% AFUE Two-Stage Operation VCT ECM Motor
	N96VSN Up to 96% AFUE Single-Stage Heating Two-Stage Cooling VCT ECM Motor		
	N95ESN Up to 96% AFUE Single-Stage Operation FCT-5 ECM Motor		N96VSN Performance Series Up to 96.5% AFUE Single-Stage Heating Two-Stage Cooling VCT ECM Motor
	N92ESN Up to 92.1% AFUE Single-Stage Operation FCT-5 ECM Motor		N96MSN Up to 96.5% AFUE Single-Stage Operation MCT-18 ECM Motor
	N95ESU Ultra-Low NOx (CA Only) Up to 95% AFUE Single-Stage Operation FCT-5 ECM Motor		N92MSN Up to 92.1% AFUE Single-Stage Operation MCT-18 ECM Motor
			N95MSU Up to 95% AFUE Single-Stage Heating Two-Stage Cooling MCT-18 ECM Motor

90% Gas Furnaces	1	2 3	4	5	6	7 8 9	10 11	12 13	14
Title	Brand Identifier	Product Efficiency Level	Motor	Heating Stages	Feature	Heating Input (BTU/H)	Width	Cooling CFM (100s)	Major Series
Product #/Letter	F	97	C	M	N	060	14	08	A
Descriptions	F = Deluxe N = Entry/	92 = 92% AFUE 95 = 95% AFUE 96 = 96% AFUE 97 = 97% AFUE	C = Comm. VS Constant Airflow (VCA) ECM M = Multi 18-Speed Constant Torque (MCT) ECM V = VS Constant Torque (VCT) ECM	M = Modulating T = Two-Stage S = Single-Stage	N = Standard NOx L = Low NOx U = Ultra-Low NOx	026 = 26,000 * 040 = 40,000 * 060 = 60,000 * 080 = 80,000 * 100 = 100,000 * 120 = 120,000 140 = 140,000	14 = 14.2" 17 = 17.5" 21 = 21.0" 24 = 24.5"	08 = 800 10 = 1000 12 = 1200 14 = 1400 16 = 1600 20 = 2000 22 = 2200	A B C D

* ULN Models Available



N92MSN 92.1% AFUE Gas Furnace Single Stage MCT

MORE EFFICIENT

- Certified to leak 2% or less of nominal air conditioning CFM delivered when pressurized to 1 inch water column with all present air inlets, air outlets, and condensate drain port(s) sealed
- Approved for Manufactured Housing/Mobile Home application with accessory (order separately)
- 18 Speed EC Constant Torque Motor (set up w/ app)

RELIABLE

- RPJ aluminized steel primary heat exchanger
- Stainless Steel Secondary Heat Exchanger
- Direct ignition with Silicon Nitride ignitor

EASIER TO INSTALL AND SERVICE

- Direct vent (2-pipe), single-pipe venting, or ventilated combustion air
- 35" (889mm) high, for ease of installation
- Simplified factory installed internal condensate drain system
- Four position - upflow/downflow/horizontal (left/right) installation
- At least twelve different venting configurations
- Through the casing flue pipe for counterflow or horizontal applications with accessory (order separately)
- Concentric vent available
- Self diagnostics with 3 digit codes
- Twinning Capable - w/ kit (select sizes)

WARRANTY

Residential:

- 20 Year Heat Exchanger / 5 Year Limited Parts Standard
- 10 Year Limited Parts with Timely Registration (Not Transferrable)

Commercial: 10 Year Heat Exchanger / 1 Year Parts



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org



Available
Mid 2023

UNIT PERFORMANCE DATA

Model Number	Heating Input (MBTUH)	Heating Output	Efficiency AFUE	Cooling Capacity CFM range @ .5 in. w.c.	Height	Width x Depth	Supply Plenum	Bottom Return	Side Return	Weight lbs.
N92MSN0401410A	40,000	37,000	92.1%	195 - 1090	35	14-3/16 x 29-1/2	12-1/2 X 19-1/8	12-9/16 X 21-5/8	14-13/16 X 22	112
N92MSN0401712A	40,000	37,000	92.1%	140 - 1100	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	122.5
N92MSN0601412A	60,000	56,000	92.1%	320 - 1285	35	14-3/16 x 29-1/2	12-1/2 X 19-1/8	12-9/16 X 21-5/8	14-13/16 X 22	122
N92MSN0601714A	60,000	56,000	92.1%	200 - 1340	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	132
N92MSN0801716A	80,000	75,000	92.1%	270 - 1790	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	142
N92MSN0802120A	80,000	75,000	92.1%	275 - 1890	35	21 x 29-1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	150
N92MSN1002120A	100,000	93,000	92.1%	295 - 1870	35	21 x 29-1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	160
N92MSN1002122A	100,000	93,000	92.1%	295 - 2220	35	21 X 29-1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	162
N92MSN1202420A	120,000	111,000	92.1%	355 - 1930	35	24-1/2 x 29-1/2	22-7/8 X 19-1/8	23 X 21-5/8	14-13/16 X 22	183

Accessories page 87



Installation
Video



Now stocking
System 1738
PVC flue gas
vent



N96MSN Up to 96% AFUE Gas Furnace Single Stage MCT

MORE EFFICIENT

- Certified to leak 2% or less of nominal air conditioning CFM delivered when pressurized to 1 inch water column with all present air inlets, air outlets, and condensate drain port(s) sealed
- Approved for Manufacture Housing/Mobile Home with kit
- 18 Speed EC Constant Torque Motor (set up w/ app)

RELIABLE

- RPJ aluminized steel primary heat exchanger
- Stainless Steel Secondary Heat Exchanger
- Direct ignition with Silicon Nitride ignitor

EASIER TO INSTALL AND SERVICE

- Direct vent (2-pipe), single-pipe venting, or ventilated combustion air
- 35" (889mm) high, for ease of installation
- Simplified factory installed internal condensate drain system
- Four position - upflow/downflow/horizontal (left/right) installation
- At least twelve different venting configurations
- Through the casing flue pipe for counterflow or horizontal applications with accessory (order separately)
- Self diagnostics with 3 digit code
- Twinning capable (select sizes) w/ kit

WARRANTY

Residential:

- 20 Year Heat Exchanger / 5 Year Limited Parts Standard
- 10 Year Limited Parts with Timely Registration (Not Transferrable)

Commercial: 10 Year Heat Exchanger / 1 Year Parts



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Available
Mid 2023

UNIT PERFORMANCE DATA

Model Number	Heating Input (MBTUH)	Heating Output	Efficiency AFUE		Cooling Capacity CFM range @ .5 in. w.c.	Height	Width x Depth	Supply Plenum	Bottom Return	Side Return	Weight lbs.
			Upflow/Horiz.	Downflow							
N96MSN0261410A	26,000	25,000	96%	95%	175 - 970	35	14-3/16 x 29-1/2	12-1/2 X 19-1/8	12-9/16 X 21-5/8	14-13/16 X 22	119
N96MSN0401410A	40,000	39,000	96%	95%	155 - 1000	35	14-3/16 x 29-1/2	12-1/2 X 19-1/8	12-9/16 X 21-5/8	14-13/16 X 22	123
N96MSN0401712A	40,000	39,000	96%	95%	160 - 1075	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	130
N96MSN0601412A	60,000	56,000	96%	95%	200 - 1165	35	14-3/16 x 29-1/2	12-1/2 X 19-1/8	12-9/16 X 21-5/8	14-13/16 X 22	129
N96MSN0601716A	60,000	58,000	96%	95%	315 - 1580	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	142
N96MSN0801716A	80,000	78,000	96%	95%	370 - 1625	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	150
N96MSN0802120A	80,000	78,000	96%	95%	225 - 2125	35	21 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	158
N96MSN1002120A	100,000	97,000	96%	95%	375 - 2145	35	21 x 29-1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	167
N96MSN1002122A	100,000	97,000	96%	95%	450 - 2240	35	21 X 29 -1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	167
N96MSN1202422A	120,000	116,000	96%	95%	290 - 2240	35	24-1/2 x 29-1/2	22-7/8 X 19-1/8	23 X 21-5/8	14-13/16 X 22	181
N96MSN1402422A	140,000	135,000	95%	95%	380 - 2230	35	24-1/2 x 29-1/2	22-7/8 X 19-1/8	23 X 21-5/8	14-13/16 X 22	189

Accessories page 87



Installation
Video



Now stocking
System 1738
PVC flue gas
vent



N96VSN 96% AFUE Gas Furnace Single Stage VCT

MORE EFFICIENT

- Fully insulated steel cabinet
- Dehumidification feature in cooling
- Certified to leak 2% or less of nominal air conditioning CFM delivered (when pressured to 1 inch water column with all present air inlets, air outlets, and condensate drain port(s) sealed)
- VCT Constant Torque Variable Speed Motor
- Supports Single & Two Stage A/C

RELIABLE

- Aluminized steel RPJ primary heat exchanger
- Stainless Steel Secondary Heat Exchanger
- Direct ignition with Silicon Nitride ignitor

EASIER TO INSTALL AND SERVICE

- Direct vent (2-pipe), single-pipe venting, or ventilated combustion air
- 35" (889mm) high, for ease of installation
- Four position - upflow/downflow/horizontal (left/right) installation
- At least twelve different venting configurations
- Through the casing flue pipe for counterflow or horizontal applications with accessory (order separately)
- Self diagnostics with super bright LED
- Concentric vent available
- Twinning capable (select sizes) w/ kit

WARRANTY

Residential:

- 20 Year Heat Exchanger / 5 Year Limited Parts Standard
- 10 Year Limited Parts, Lifetime HX with Timely Registration (Not Transferrable)

Commercial: 10 Year Heat Exchanger / 1 Year Parts



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org



UNIT PERFORMANCE DATA

Model Number	Heating Input (MBTUH)	Heating Output	Efficiency AFUE		Cooling Capacity CFM range @ .5 in. w.c.	Height	Width x Depth	Supply Plenum	Bottom Return	Side Return	Weight lbs.
			Upflow/Horiz.	Downflow							
N96VSN0401410A	40,000	39,000	96%	95%	445-1030	35	14-3/16 x 29-1/2	12-1/2 X 19-1/8	12-9/16 X 21-5/8	14-13/16 X 22	123
N96VSN0401712A	40,000	39,000	96%	95%	400-1105	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	136
N96VSN0601412A	60,000	58,000	95%	95%	445-1115	35	14-3/16 x 29-1/2	12-1/2 X 19-1/8	12-9/16 X 21-5/8	14-13/16 X 22	132
N96VSN0601714A	60,000	58,000	96%	95%	630-1555	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	146
N96VSN0801716A	80,000	78,000	96%	95%	595-1655	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	150
N96VSN0802120A	80,000	78,000	96%	95%	810-2090	35	21 x 29-1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	161
N96VSN1002120A	100,000	97,000	96%	95%	1015-2160	35	21 x 29-1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	170
N96VSN1202422A	120,000	117,000	96%	95%	995-2250	35	24-1/2 x 29-1/2	22-7/8 X 19-1/8	23 X 21-5/8	14-13/16 X 22	189

Accessories page 87



Installation Video



Now stocking System 1738 PVC flue gas vent



F96VTN 96% AFUE Gas Furnace Two-Stage VCT

MORE EFFICIENT

- Two-stage heating operation
- **Two-speed induced draft combustion blower**
- Supports single- and two-stage cooling units
- Dehumidification feature (A/C)
- Fully insulated steel cabinet
- Certified to leak 2% or less of nominal air conditioning CFM delivered (when pressurized to 1 inch water column with all present air inlets, air outlets, and condensate drain port(s) sealed)
- VCT Variable Speed Constant Torque Motor

RELIABLE

- **Aluminized steel RPJ primary heat exchanger**
- Stainless steel secondary heat exchanger
- Direct ignition with Silicon Nitride ignitor

EASIER TO INSTALL AND SERVICE

- Direct vent (2-pipe), single-pipe venting, or ventilated combustion air
- 35" (889mm) high, for ease of installation
- Four position - upflow/downflow/horizontal (left/right) installation
- At least twelve different venting configurations
- Through the casing flue pipe for counterflow or horizontal applications with accessory (order separately)
- Self-configuring and communicating control
- Concentric vent available
- Twinning Capable (select size) w/ kit

WARRANTY

Residential: **5 year No Hassle Replacement™ limited warranty**

- 20 Year Heat Exchanger / 5 Year Limited Parts Standard
- 10 Year Limited Parts, Lifetime HX with Timely Registration (Not Transferrable)

Commercial: 10 Year Heat Exchanger / 1 Year Parts



SPLIT A/C
SPLIT HEAT PUMPS
AIR HANDLING UNITS
FURNACE COILS
FURNACE 80%
FURNACE 90%
OIL FURNACES
PACKAGE UNITS

UNIT PERFORMANCE DATA

Model Number	Heating Input (MBTUH)	Heating Output	Efficiency AFUE		Cooling Capacity CFM range @ .5 in. w.c.	Height	Width x Depth	Supply Plenum	Bottom Return	Side Return	Weight lbs.
			Upflow/Horiz.	Downflow							
F96VTN0401410A	26,000 - 40,000	25,000 - 39,000	95%	95%	445 - 1030	35	14-3/16 x 29-1/2	12-1/2 X 19-1/8	12-9/16 X 21-5/8	14-13/16 X 22	123
F96VTN0401712A	26,000 - 40,000	25,000 - 39,000	96%	95%	400 - 1105	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	133
F96VTN0601412A	39,000 - 60,000	38,000 - 58,000	95%	95%	445 - 1115	35	14-3/16 x 29-1/2	12-1/2 X 19-1/8	12-9/16 X 21-5/8	14-13/16 X 22	132
F96VTN0601714A	39,000 - 60,000	38,000 - 58,000	96%	95%	210 - 1475	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	139
F96VTN0801716A	52,000 - 80,000	50,000 - 78,000	96%	95%	360 - 1655	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	147
F96VTN0802120A	52,000 - 80,000	51,000 - 78,000	96%	95%	440 - 2005	35	21 x 29-1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	156
F96VTN1002120A	65,000 - 100,000	63,000 - 97,000	96%	95%	405 - 2005	35	21 x 29-1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	170
F96VTN1202122A	65,000 - 100,000	63,000 - 97,000	96%	95%	975 - 2275	35	21 x 29-1/2	19-3/8 x 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	171
F96VTN1202422A	78,000 - 120,000	76,000 - 117,000	96%	95%	505 - 2190	35	24-1/2 x 29-1/2	22-7/8 X 19-1/8	23 X 21-5/8	14-13/16 X 22	190

Accessories page 87



Installation Video



Now stocking System 1738 PVC flue gas vent



F96CTN 96% AFUE Gas Furnace Two-Stage/Variable Speed/Communicating

MORE EFFICIENT

- Two stage operation
- Constant CFM (variable speed) blower
- Dehumidification feature in cooling
- Supports single & two-stage cooling units
- **Two-speed induced draft combustion blower**
- Fully insulated steel cabinet
- Certified to leak 2% or less of nominal air conditioning CFM delivered when pressurized to 1 inch water column with all present air inlets, air outlets, and condensate drain port(s) sealed

RELIABLE

- RPJ aluminized steel primary heat exchanger
- Stainless steel secondary heat exchanger
- Direct ignition with Silicon Nitride ignitor

EASIER TO INSTALL AND SERVICE

- Direct vent (2-pipe), single-pipe venting, or ventilated combustion air
- 35" (889mm) high, for ease of installation
- Four position - upflow/downflow/horizontal (left/right) installation
- At least twelve different venting configurations
- Through the casing flue pipe for counterflow or horizontal applications with accessory (order separately)
- Self diagnostics with super bright LED

WARRANTY

- Residential: **10 year No Hassle Replacement™ limited warranty**
- 20 Year Heat Exchanger / 5 Year Limited Parts Standard
 - 10 Year Limited Parts, Lifetime HX with Timely Registration (Not Transferrable)
- Commercial: 10 Year Heat Exchanger / 1 Year Parts



SYST0101CW



UNIT PERFORMANCE DATA

Model Number	Heating Input (MBTUH)	Heating Output	Efficiency AFUE		Cooling Capacity CFM range @ .5 in. w.c.	Height	Width x Depth	Supply Plenum	Bottom Return	Side Return	Weight lbs.
			Upflow/Horiz.	Downflow							
F96CTN0601714A	39,000 - 60,000	38,000 - 58,000	96.3%	95%	530-1280	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	151
F96CTN0801714A	52,000 - 80,000	50,000 - 78,000	96.2%	95%	520-1310	35	17-1/2 x 29-1/2	15-7/8 X 19-1/8	16 X 21-5/8	14-13/16 X 22	152.5
F96CTN0802120A	52,000 - 80,000	51,000 - 78,000	96.7%	95%	750-1945	35	21 x 29-1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	171.5
F96CTN1002122A	65,000 - 100,000	63,000 - 98,000	96.1%	95%	715-2160	35	21 x 29-1/2	19-3/8 X 19-1/8	19-1/2 X 21-5/8	14-13/16 X 22	179
F96CTN1202422A	78,000 - 120,000	76,000 - 117,000	96.7%	95%	705-2135	35	24-1/2 x 29-1/2	22-7/8 X 19-1/8	23 X 21-5/8	14-13/16 X 22	195

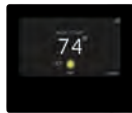
Accessories page 87



Installation Video



Now stocking System 1738 PVC flue gas vent



SYST0101CW



F97CMN Up to 98% AFUE Gas Furnace Modulating/Variable Speed/Communicating

MORE EFFICIENT

- Modulating (40-100%) Heating Operation
- **Ion™ Communicating Control System**
- **Xtra SEER Variable speed ECM blower motor**
- Supports single, two-stage & inverter cooling units
- Dehumidification feature in cooling
- Fully insulated steel cabinet
- Certified to leak 2% or less of nominal air conditioning CFM delivered (when pressurized to 1inch water column with all present air inlets, air outlets, and condensate drain port(s) sealed)

RELIABLE

- **RPJ primary heat exchanger**
- Stainless steel secondary heat exchanger
- Direct ignition with Silicon Nitride ignitor

EASIER TO INSTALL AND SERVICE

- Direct vent (2-pipe), single-pipe venting or ventilated combustion air
- 35" (889mm) high, for ease of installation
- Four position – upflow/downflow/horizontal (left/right) installation
- At least twelve different venting configurations
- Through the casing flue pipe for counterflow or horizontal applications with accessory (order separately) Self-configuring and communicating control
- Concentric vent available

WARRANTY

Residential: **10 year No Hassle Replacement™ limited warranty**

- 20 Year Heat Exchanger / 5 Year Limited Parts Standard
 - 10 Year Limited Parts, Lifetime HX with Timely Registration (Not Transferrable)
- Commercial: 10 Year Heat Exchanger / 1 Year Parts

UNIT PERFORMANCE DATA

Model Number	Heating Input (MBTUH)	Heating Output	Efficiency AFUE		Cooling Capacity CFM range @ .5 in. w.c.	Height	Width x Depth	Supply Plenum	Bottom Return	Side Return	Weight lbs.
			Upflow/Horiz.	Downflow							
F97CMN0601714A	24,000 - 60,000	24,000 - 59,000	97.0%	95.0%	510-1335	35	17-1/2 x 29-1/2	15-7/8 x 19-1/8	16 x 21-5/8	14-13/16 x 22	154
F97CMN0602120A	24,000 - 60,600	24,000 - 60,000	98.0%	96.7%	510-1905	35	21 x 29-1/2	19-3/8 x 19-1/8	19-1/2 x 21-5/8	14-13/16 x 22	159
F97CMN0801714A	32,000 - 80,000	31,000 - 78,000	97.0%	95.0%	490-1375	35	17-1/2 x 29-1/2	15-7/8 x 19-1/8	16 x 21-5/8	14-13/16 x 22	164
F97CMN0802120A	32,000 - 80,000	31,000 - 78,000	97.0%	95.0%	750-1945	35	21 x 29-1/2	19-3/8 x 19-1/8	19-1/2 x 21-5/8	14-13/16 x 22	169
F97CMN1002122A	40,000 - 100,000	39,000 - 98,000	97.0%	95.0%	715-2160	35	21 x 29-1/2	22-7/8 x 19-1/8	23 x 21-5/8	14-13/16 x 22	179
F97CMN1202422A	48,000 - 120,000	47,000 - 117,000	97.0%	95.0%	885-2185	35	24-1/2 x 29-1/2	19-7/8 x 19-1/8	19-1/2 x 21-5/8	14-3/16 x 22	203

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Installation Video



Now stocking System
1738 PVC flue gas vent



UNITED REFRIGERATION INC.

Gas Furnace Accessories

Model Number	Description	Use With
TWINNING KIT		
AGATWNDTE01B	"Twinning kit. Allows operation of two identical size model furnaces.	N95ESN, R95ESN, 0601714, 0801716, 0802120, 1002120, 1202422, 1402422, N80ESN/L, R80ESN/L, 0702116, 0902116, 0902120, 0902420, 1102120, 1102420, 1352420, N80ESN/L1552420
GAS CONVERSION KITS		
Natural Gas to Propane Gas		
AGAGC9NPS01C	Natural gas to Propane conversion kit. Allows field conversion to Propane gas.	All N92MSN, N96MSN
AGAGCANPL01B	Natural gas to Propane conversion kit. Allows field conversion to Propane gas.	"All 26,000 BTUh
AGAGC8NPS01B	Natural gas to Propane conversion kit. Allows field conversion to Propane gas.	N96MSN "
Propane Gas to Natural Gas		
AGAGC9PNS01C‡	Propane to Natural gas conversion kit. Allows field conversion to Natural gas.	All N92MSN, N96MSN
AGAGCAPNL01B	Natural gas to Propane conversion kit. Allows field conversion to Propane gas.	N96MSN All 26,000 BTUh
AGAGC8PNS01B	Natural gas to Propane conversion kit. Allows field conversion to Propane gas.	All N80MSN, N80MSL
MOBILE HOME CONVERSION KIT		
AGAGCAMHC01A	Single Stage conversion kit	N92MSN, N96MSN 40,000 BTUh to 120,000 BTUh
GAS VALVE ADAPTER		
1188594 ‡	Gas Valve Adapter Kit	ALL 90+ FURNACES IF REQUIRED
NEUTRALIZER KIT		
NAHA001NK 612833 ‡	Condensate neutralizer kit for condensing gas furnaces	ALL 90+ FURNACES IF REQUIRED
COIL ADAPTER		
NAHB00101CA	Coil Adapter Kit with No Offset	ALL 80% & 90+ FURNACES
NAHB00201CA	Coil Adapter Kit with Single Offset	
NAHB00301CA	Coil Adapter Kit with Double Offset	
RETURN AIR BASE (UPFLOW APPLICATIONS)		
NAHA01401RA	Return Air Kit 14.2" Wide	All 14" cabinet width
NAHA01701RA	Return Air Kit 17.5" Wide	All 17" cabinet width
NAHA02101RA	Return Air Kit 21" Wide	All 21" cabinet width
NAHA02401RA	Return Air Kit 24.5" Wide	All 24" cabinet width

‡ Must be ordered from Service Parts

FILTER KITS		
ACG1425NCB ‡	Bottom return filter rack 14.5"	All 14" cabinet width
ACG1625NCF ‡	Bottom return filter rack 16"	All 17" cabinet width
325531-402 ‡	Washable filter, 3/4 inch 16 x 25	All 14" & 17" cabinet widths
ACG2025NCJ ‡	Bottom return filter rack 20"	All 21" cabinet width
325531-403 ‡	Washable filter, 3/4 inch 24 x 25	All 21" cabinet width
ACG2424NCL ‡	Bottom return filter rack 24"	All 24" cabinet width
325531-404 ‡	Washable filter, 3/4 inch 24 x 25	All 24" cabinet width
COMBUSTIBLE FLOOR SUBBASES		
NAHA01101SB	Combustible Floor Subbase (not required when evaporator coil case is used)	N80MSN, N80MSL, R80MSU, R80MSN, R80MSL, N92MSN, N96MSN, R92MSN, R96MSN (Counterflow Applications)

continued on next page



UNITED REFRIGERATION INC.

Gas Furnace Accessories (cont.)

Model Number	Description	Use With
VENT KITS		
NAHB00301VC	Downflow vent guard (not required when vent is routed through cabinet)	All N80MSN, N80MSL, N80MSN (Counterflow Applications)
NAHA00101VC	Internal Vent Kit (Through the cabinet)	All N92MSN, N96MSN, N95MSU
NAHA00301VT	2" Direct Vent Termination Bracket	All N92MSN, N96MSN, N95MSU, R92MSN, R96MSN
NAHA00401VT	3" Direct Vent Termination Bracket	All N92MSN, N96MSN, N95MSU, R92MSN, R96MSN
NAHA001CV ‡ 1011129 ‡	3" (76.2mm) Concentric Vent Kit	All N92MSN, N96MSN, N95MSU (See Vent Tables)
NAHA002CV	2" (50.8mm) Concentric Vent Kit	All N92MSN, N96MSN, N95MSU (See Vent Tables)
NAHA00101CK 1188419 ‡	Inlet Air Pipe Coupling for Polypropylene Vent Systems	All N92MSN, N96MSN, N95MSU
MASONRY CHIMNEY ADAPTER		
NAHA00301DH	Chimney adapter kit 5"	N80MSN, N80MSL Greater than or equal to 135,000 BTUh
NAHA00401DH	Chimney adapter kit 4"	N80ESN, N80ESL, R80ESN, R80ESL, F80CTL, N80VSL Less than 135,000 BTUh
FREEZE PROTECTION KIT		
NAHA00101HH	Condensate drain line tape	All N92MSN, N96MSN, N95MSU
NAHA00201HH	Condensate trap with heat pad	All N92MSN, N96MSN, N95MSU
HORIZONTAL INSTALLATION KIT		
NAHA00101HV	Trap Grommet (Direct vent application only)	All N92MSN, N96MSN, N95MSU
DRAIN ACCESSORY KIT		
NAHA00110DA	1/2" CPVC to 3/4" PVC (10 Pack)	All N92MSN, N96MSN, N95MSU
NAHB00101CT	External Drain Kit	All N92MSN, N96MSN
OFFSET ADAPTER KIT		
AGACDKTUA10A	Trap Offset Adapter Kit - Upflow with Right Side Return	N95MSU

‡ Must be ordered from Service Parts

REFER TO PRODUCT SPECIFICATIONS FOR EXACT ACCESSORY MATCH.

SPLIT A/C

SPLIT HEAT PUMPS

AIR HANDLING UNITS

FURNACE COILS

FURNACE 80%

FURNACE 90%

OIL FURNACES

PACKAGE UNITS



2021 Oil Furnace Line Up

MODEL	OMF	OMV	OLR	OLV
Configuration	4 Way Multi Position	4 Way Multi Position	Low Boy	Low Boy
BTU/h	98-154,000	98-154,000	98-154,000	98-154,000
AFUE	Up to 87%	Up to 86%	Up to 87%	Up to 86%
Heat Exchanger	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Heat Exchanger Warranty	Lifetime*	Lifetime*	Lifetime*	Lifetime*
No Hassle Warranty		10 Y*		10 Y*
Two Stage Cooling Compatible		Yes		Yes
Enhanced Dehumidification		Yes		Yes
Variable Speed Blower		Yes		Yes

SPLIT A/C

SPLIT HEAT PUMPS

AIR HANDLING UNITS

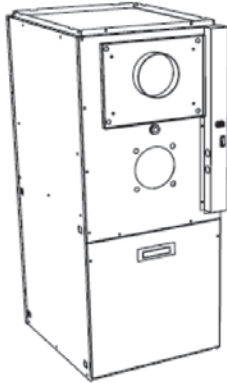
FURNACE COILS

FURNACE 80%

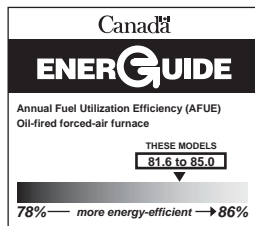
FURNACE 90%

OIL FURNACES

PACKAGE UNITS



Illustrations and photographs are only representative. Some Product models may vary.



ONLY applies to applications in Canada where the furnace is installed in the conditioned space, per sections 5.35.1.2 and 4.7.1.1 of CSA standard B212 dated October 2000.



OMF Highboy Oil Furnace



FEATURES

- Stainless steel, heavy gauge heat exchanger quickly transfers heat to the ambient air
- Multi-position, four way multipoise unit that opens-up installation possibilities
- Low profile
41-1/2 inches (1054mm) high, OMF154 is 47-7/8 inches (1216mm) high
- Sound attenuator, integrated inside secondary heat exchanger
- High density acoustic wool dampens combustion sound
- **Choice of high static pressure oil burners:**
Beckett AFG & NX, Riello 40 (Burners must be ordered separately)
- Inspection port external for easy access and sealed, adjust combustion parameters and simplify inspections
- Approved for chimney vent and sealed combustion installations
- High quality, high gloss baked finish
- Efficient AFUE up to 87.0% Canada, 86.4% US
- Front flue (breach)

WARRANTY *

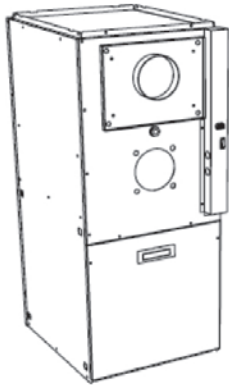
- **Lifetime heat exchanger limited warranty with timely registration**
 - 5 year parts limited warranty
- With timely registration, an additional 5 year parts limited warranty
- * Applies to original purchaser/homeowner, some limitations may apply.
See warranty certificate for complete details.

UNIT PERFORMANCE DATA

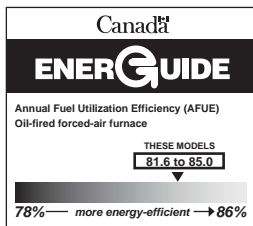
Model Number	Input (MBTUH)	Efficiency AFUE		Cooling Capacity @ .5 in wc (125 Pa)	Operating Dimensions height x width x depth in.	Weight lbs.
		CANADA	US			
OMF098J10B	70,000-98,000	84.0-87.0‡	83.3-86.4‡	2.5 TON	40-3/4 x 16-7/8 x 21-1/2	125
OMF112K14A	95,200-112,000	85.5‡ - 87.1‡	84.4‡ - 85.8‡	3.5 TON	41-1/2 x 21-3/4 x 25-3/4	153
OMF154L20A	126,000-154,000	85.3‡-87.0‡	85.0‡-86.1‡	5.0 Tons	47-7/8 x 28-1/2 x 25	200

‡ Meets EnergyStar Guidelines (Only specific firing rates meet the ENERGY STAR® guidelines).

† Depth without the burner



Illustrations and photographs are only representative. Some Product models may vary.



ONLY applies to applications in Canada where the furnace is installed in the conditioned space, per sections 5.35.1.2 and 4.7.1.1 of CSA standard B212 dated October 2000.



OMV Highboy Oil Furnace Variable Speed

FEATURES

- Stainless steel, heavy gauge heat exchanger quickly transfers heat to the ambient air
- Multi-position, four way multipoise unit that opens-up installation possibilities
- Low profile - OMV098 is 40-3/4 inches (1035 mm) high, OMV112 is 41-1/2 inches (1054mm) high, OMF154 is 47-7/8 inches (1216mm) high
- Sound attenuator, integrated inside secondary heat exchanger.
- High density acoustic wool dampens combustion sound.
- **Variable speed blower ECM motor that provides true constant CFM capabilities**
- **Dehumidification with variable speed ECM motor allows modulation of blower speed to better extract humidity**
- **Choice of high static pressure oil burners: Beckett AFG & NX, Riello 40 (Burners must be ordered separately)**
- Inspection port/clean outs external for easy access and sealed, adjust combustion parameters and simplify inspections parameters and perform inspections easily with this sealed, spring-loaded access port
- Approved for chimney vent and sealed combustion installations
- High quality, high gloss baked finish
- Efficient AFUE up to 86.7% Canada, 86.3% US
- Front flue (breach)

WARRANTY *

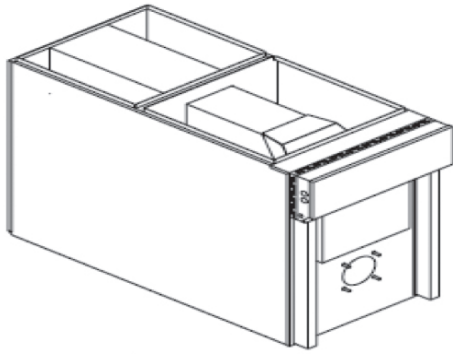
- **10 year No Hassle Replacement™ limited warranty**
 - **Lifetime heat exchanger limited warranty with timely registration**
 - 5 year parts limited warranty
 - With timely registration, an additional 5 year parts limited warranty
- * Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.

UNIT PERFORMANCE DATA						
Model Number	Input (MBTUH)	Efficiency AFUE		Cooling Capacity @ .5 in wc (125 Pa)	Operating Dimensions height x width x depth in.	Weight lbs.
		CANADA	US			
OMV098J12B	70,000-98,000	81.9 - 85.0‡	81.9 - 85.0‡	3 TON	40-3/4 x 16-7/8 x 21-1/2	125
OMV112K14A	95,200-112,000	85.0‡ - 85.5‡	85.0‡ - 85.2‡	3.5 TON	41-1/2 x 21-3/4 x 25-3/4	153
OMV154L20A	126,000-154,000	85.3‡-86.7‡	85.0‡-86.3‡	5.0 Tons	47-7/8 x 28-1/2 x 25	200

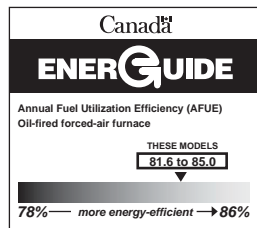
‡ Meets EnergyStar Guidelines (Only specific firing rates meet the ENERGY STAR® guidelines).

† Depth without the burner

Accessories page 77



Illustrations and photographs are only representative. Some Product models may vary.



ONLY applies to applications in Canada where the furnace is installed in the conditioned space, per sections 5.35.1.2 and 4.7.1.1 of CSA standard B212 dated October 2000.



OLR Low Boy Oil Furnace

FEATURES

- Stainless steel, heavy gauge heat exchanger quickly transfers heat to the ambient air
- Multi-speed direct drive motors permanently lubricated for long life performance
- Easy access control panel
- Low profile OLR098 is 33-3/4 (857mm) high, OLR112 is 33-3/4 (857mm) high, OLR154 is 39-1/4 inches (997mm) high"
- Sound attenuator, high density acoustic wool dampens combustion sound
- **Choice of high static pressure oil burners:**
Beckett AFG & NX, Riello 40 (Burners must be ordered separately)
- Inspection port external for easy access and sealed, adjust combustion parameters and simplify inspections
- Accessories included, barometric draft regulator, internal filter rack and air filter
- High quality, high gloss baked finish
- Efficient AFUE up to 87.0% Canada, 86.4% US
- Approved for chimney vent and sealed combustion installations

WARRANTY *

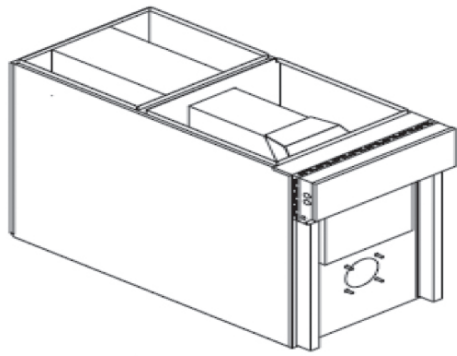
- **Lifetime heat exchanger limited warranty with timely registration**
 - 5 year parts limited warranty
 - With timely registration, an additional 5 year parts limited warranty
- * Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.

UNIT PERFORMANCE DATA						
Model Number	Input (MBTUH)	Efficiency AFUE		Cooling Capacity @ .5 in wc (125 Pa)	Operating Dimensions height x width x depth in.	Weight lbs.
		CANADA	US			
OLR098A12A	77,000-98,000	85.4 ‡- 87.9 ‡	85.0 ‡- 86.9 ‡	3 TON	33-3/4 x 21 x 47	175
OLR112A16A	95,200-112,000	86.4 ‡- 88.1 ‡	85.9 ‡- 87.2 ‡	4 TON	33-3/4 x 21 x 48	195
OLR154F20A	126,000-154,000	86.1 ‡- 87.7 ‡	85.5 ‡- 87.5 ‡	5 TON	39-1/4 x 24 7/8 x 52	270

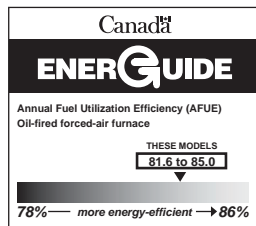
‡ Meets EnergyStar Guidelines

† Depth without the burner

Accessories page 77



Illustrations and photographs are only representative. Some Product models may vary.



ONLY applies to applications in Canada where the furnace is installed in the conditioned space, per sections 5.35.1.2 and 4.7.1.1 of CSA standard B212 dated October 2000.



OLV Oil Furnace Low Boy Variable Speed

FEATURES

- Stainless steel, heavy gauge heat exchanger quickly transfers heat to the ambient air
- **Variable speed ECM motor that provides true constant CFM capabilities**
- Fan control switch for continuous operation
- Easy access control panel
- Low profile
- Sound attenuator, high density acoustic wool dampens combustion sound
- **Choice of high efficiency, high static pressure oil burners
Riello or Beckett AFG & NX burners (Burners ordered and shipped separately)**
- Inspection port external for easy access and sealed, adjust combustion parameters and simplify inspections
- Accessories included, barometric draft regulator, internal filter rack and air filter
- High quality, high glass baked finish
- Efficient AFUE up to 88.1% Canada, 87.5% US
- Approved for chimney vent and sealed combustion installations

WARRANTY *

- **10 year No Hassle Replacement™ limited warranty**
 - **Lifetime heat exchanger limited warranty with timely registration**
 - 5 year parts limited warranty
 - With timely registration, an additional 5 year parts limited warranty
- * Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.

UNIT PERFORMANCE DATA						
Model Number	Input (MBTUH)	Efficiency AFUE		Cooling Capacity @ .5 in wc (125 Pa)	Operating Dimensions height x width x depth in.	Weight lbs.
		CANADA	US			
OLV098A12A	70,000-98,000	85.4 ‡- 87.9 ‡	85.0 ‡- 86.9 ‡	3 TON	33-3/4 x 21 x 47	175
OLV112A16A	81,100-112,000	86.4 ‡- 88.1 ‡	85.9 ‡- 87.2 ‡	4 TON	33-3/4 x 21 x 48	195
OLV154F20A	107,700-154,000	86.1 ‡- 87.7 ‡	85.5 ‡- 87.5 ‡	5 TON	39-1/4 x 24 7/8 x 52	270

‡ Meets EnergyStar Guidelines

† Depth without the burner

Accessories page 77



Oil Furnace Accessories

Model Number	Description	Use With
OIL BURNERS		
N01F051	Riello Oil Burner (Chimney)	OMF112, OMV112, OLR112, OLV112
N01F052	Riello Oil Burner (Direct)	OMF112, OMV112, OLR112, OLV112
N01F053	Riello Oil Burner (Chimney)	OLR154, OLV154
N01F054	Riello (Chimney venting)	OMF098, OMV098, OLR098, OLV098
N01F055	Riello Oil Burner (Direct)	OMF098, OMV098, OLR098, OLV098
N01F056	Riello Oil Burner (Direct)	OLR154, OLV154
N01J050	Beckett NX Oil Burner	OMF098, OLR098, OLV098, OMV098
N01J052	Beckett NX Oil Burner	OMF112, OLR112, OLV112, OMV112
N01J053	Beckett Oil Burner (Chimney or Direct)	OLR154, OLV154, OMF154, OMV154
N03H010	Nozzle, Oil Burner, Delavan, 0.75 GPH/60 B	OLR154, OLV154
VESTIBULE TERMINAL KITS		
VTK098	Vent Terminal Kit for 4" Breech Models	OLV098, OLR098, OMF112, OMV112, OLR112, OLV112
FLEX VENT		
IFV09810	4 Ø x 10 (102mm x 3m) Insulated Flex Vent for 4" Breech Models	OMF098, OMV098, OLR098/OLV098, OLR112/OLV112, OMF112, OMV112
IFV09820	4 Ø x 20 (102mm x 6m) Insulated Flex Vent for 4" Breech Models	OMF098, OMV098, OLR098/OLV098, OLR112/OLV112, OMF112, OMV112
FLOOR BASE		
HFB101	Horizontal Floor Base	NOMF, NOMV, OMF098, OMV098, OMF112, OMV112, OMF154, OMV154
DFB101	Downflow Subbase	NOMF, NOMV
DFB102	Downflow Subbase	OMF098, OMV098
DFB103	Downflow Subbase	OMF112, OMV112
DFB104	Downflow Subbase	OMF154, OMV154
FRB101	Floor Return Base	OMF098, OMV098

+ Must be ordered from Service Parts



Small Packaged Product Roadmap

Pre-2023

PGR5
Year-Round Air Conditioner
Up to 16.0 SEER
Two-Stage Operation



PAR5
Packaged Air Conditioner
Up to 16.0 SEER
Two-Stage Operation

PHR5
Packaged Heat Pump
Up to 16.0 SEER
Two-Stage Operation

PGS4
Year-Round Air Conditioner
Single-Stage Operation

PDS4
Dual-Fuel
Single-Stage Operation

2023

PGR5
Year-Round Air Conditioner
Up to 16.0 SEER
Stainless Steel Heat Exchanger
Two-Stage Operation

PAR5
Packaged Air Conditioner
Up to 16.0 SEER
Two-Stage Operation

PHR5
Packaged Heat Pump
Up to 16.0 SEER
Two-Stage Operation

Obsolete

Obsolete

QuietComfort® Series



Note: All QuietComfort models at 15.2 SEER2 based on preliminary ratings - subject to change.

PGD4
Year-Round Air Conditioner
Single-Stage Operation



PAD4
Packaged Air Conditioner
Single-Stage Operation

PDD4
Dual-Fuel
Single-Stage Operation

PHD4
Packaged Heat Pump
Single-Stage Operation

PGD4*
Year-Round Air Conditioner
Stainless Steel Heat Exchanger
Single-Stage Operation

PAD4*
Packaged Air Conditioner
Single-Stage Operation

PDD4*
Dual-Fuel
Stainless Steel Heat Exchanger
Single-Stage Operation

PHD4*
Packaged Heat Pump
Single-Stage Operation

Performance Series



Note: All Performance models at 13.4 SEER2 based on preliminary ratings - subject to change.

PAJ4
Packaged Air Conditioner
Single-Stage Operation



PHJ4
Packaged Heat Pump
Single-Stage Operation

PAJ4*
Packaged Air Conditioner
Single-Stage Operation

PHJ4*
Packaged Heat Pump
Single-Stage Operation

Manufactured Housing



* Aluminum standard indoor coil

Small Packaged Products	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Title	Unit	Type	Tier	SEER	Cooling BTU		Heating BTU		Voltage	Factory Installed Option	Feature Code	Major Series		
Product #/Letter	P	A	D	4	24		060		K	00	0	K		
Descriptions	P = Package	A = AC H = HP D = Dual Fuel G = Gas/Electric	D = Standard J = Dedicated Horizontal R = Mainline Up to 16 SEER	4 = 14 5 = 15	24 = 24K/2 Tons 30 = 30K/2.5 Tons 36 = 36K/3 Tons 42 = 42K/3.5 Tons 48 = 48K/4 Tons 60 = 60K/5 Tons		000 = N/A 040 = 40K 060 = 60K 090 = 90K 115 = 115K 120 = 120K 130 = 127 to 130K		K = 208/230-1-60 H = 208/230-3-60 L = 460-3-60	00 = No Options GC = Low Cab Air Leakage + Tin-Plated Cu Evap Tubes TP = Tin-Plated Evap Tubes LW = Low Cabinet Air Leakage	0 = Standard 1 = Low NOx 2 = Ultra-Low NOx	K		



UNITED REFRIGERATION INC.



PAJ4 Package A/C Side Discharge

REFRIGERATION CIRCUIT

- Environmentally sound R-410A refrigerant
- Liquid refrigerant filter driers
- Aluminum tube/aluminum fin condenser and evaporator coils



EASY TO INSTALL AND SERVICE

- Light weight, compact construction ideal for manufactured housing and residential applications
- Hand holds built into the unit base pan
- Start collars provided
- Easy panel accessibility for maintenance and installation
- Accessory electric heaters with single point connections
- Designed to be serviced from both the side and front

BUILT TO LAST

- Vibration isolation provides quiet operation. Compressors have internal over current protection
- Direct-drive multi-speed, blower motor standard on all models
- No-rust base pan with integrated drain pan standard on all units
- Durable pre-painted steel cabinet
- Louvered coil enclosure for protection against vandalism and hail damage
- Aerodynamic fan blade design reduces the overall sound

WARRANTY

- Residential: 10 Year Parts w/ timely registration (5 years standard) - limitations may apply - see complete warranty for details
- Commercial: 5 year compressor
1 year parts



UNIT PERFORMANCE DATA

Model Number	Nominal Tons	Cooling			Sound Rating	Height	Width x Depth	Weight lbs
		Net Capacity BTU/h @ 95°F (35°C)	SEER 2	EER 2				
PAJ4240000K000K	2	23,600	13.4	10.6	71	30-1/8	51 x 32	217
PAJ4300000K000K	2.5	28,000	13.4	10.6	73	30-1/8	51 x 32	234
PAJ4360000K000K	3	34,400	13.4	10.6	75	30-1/8	51 x 32	255
PAJ4420000K000K	3.5	41,500	13.4	10.6	77	34-1/8	51 x 32	275
PAJ4480000K000K	4	47,500	13.4	10.6	76	42-1/8	51 x 32	318
PAJ4600000K000K	5	54,000	13.4	10.6	80	42-1/8	51 x 32	344

Accessories page 108



PHJ4 Package Heat Pump Side Discharge

REFRIGERATION CIRCUIT

- Liquid refrigerant filter driers
- Aluminum tube / aluminum fin condenser and evaporator coils

EASY TO INSTALL AND SERVICE

- Light weight, compact construction ideal for manufactured housing and residential applications
- Hand holds built into the unit base pan
- Start collars provided
- Easy panel accessibility for maintenance and installation
- Accessory electric heater with single point connections
- Designed to be serviced from both the side and front

BUILT TO LAST

- Vibration isolation provides quiet operation.
- Compressors have internal over current protection
- Direct-drive multi-speed, blower motor standard on all models
- No-rust base pan with integrated drain pan standard on all units
- Durable pre-painted steel cabinet
- Louvered coil enclosure for protection against vandalism and hail damage
- Aerodynamic fan blade design reduces the overall sound

WARRANTY

- Residential: 10 Year Parts w/ timely registration (5 years standard)
- limitations may apply - see complete warranty for details
- Commercial: 5 year compressor
1 year parts



UNIT PERFORMANCE DATA									
Model Number	COOLING			HEATING		Sound Rating	Height	Width x Depth	Weight lbs
	Net Capacity BTU/h @ 95°F (35°C)	SEER 2	EER 2	Net Capacity BTU/h @ 47°F (8.3°C)	HSPF 2				
PHJ424000K000K	23,000	13.4	10.6	24,000	6.7	72	30-1/8	51 x 32	253
PHJ430000K000K	29,000	13.4	10.6	28,000	6.7	72	34-1/8	51 x 32	283
PHJ436000K000K	35,000	13.4	10.6	32,000	6.7	77	34-1/8	51 x 32	285
PHJ424000K000K	41,000	13.4	10.6	40,000	6.7	76	42-1/8	51 x 32	339
PHJ448000K000K	46,000	13.4	10.6	45,000	6.7	77	42-1/8	51 x 32	358
PHJ460000K000K	55,000	13.4	10.6	56,000	6.7	79	42-1/8	51 x 32	425

Accessories page 108



PAD4 Package A/C Single Stage

MORE EFFICIENT

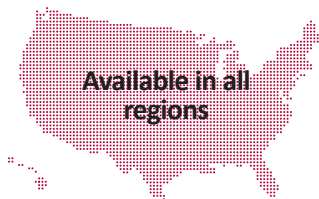
- High efficiency ECM indoor blower motor on all models
- Aluminum tube/aluminum fin condenser and evaporator coils

EASIER TO INSTALL

- Installs easily on a rooftop or at ground level
- Easy three-panel accessibility for maintenance and installation
- Easily converts to down discharge applications

RELIABLE

- Pre-painted steel cabinet
- Hail guard (3/8" spacing) wire grilles standard
- Vertical condenser fan discharge
- Full perimeter steel base rails
- High and low pressure switches provide added reliability for the compressor



Optional:

- Available with optional factory installed tin-coated copper evaporator coil (Identified with letters TP in the 11th and 12th positions in the model number)

WARRANTY

- Residential: **3 Year no hassle replacement limited warranty**
10 Year Parts w/ timely registration (5 years standard)
- limitations may apply - see 3 year no hassle warranty for details
- Commercial: 5 year compressor
1 year parts

UNIT PERFORMANCE DATA					
Model Number	Cooling			Height x Width x Depth in	Weight
	Capacity BTU	SEER 2	EER 2		
PAD424000K000K				TBA	
PAD430000K000K					
PAD436000K000K					
PAD442000K000K					
PAD448000K000K					
PAD460000K000K					

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PAR5 Package A/C Two Stage

REFRIGERATION CIRCUIT

- Environmentally sound R-410A refrigerant
- Aluminum tube/aluminum fin condenser and evaporator coils
- **Dehumidification mode (airflow reduction) on all models**
- **Enhanced dehumidification feature on high stage cooling with use of a dehumidistat**
- **Two stage scroll compressors standard on all models**

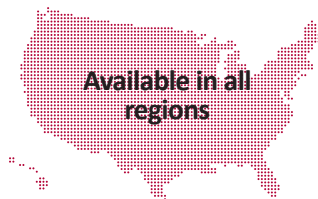


EASY TO INSTALL AND SERVICE

- Installs easily on a rooftop or at ground level
- Easy three-panel accessibility for maintenance and installation
- Easily converts to down discharge applications

BUILT TO LAST

- Hail guard (3/8" spacing) wire grilles standard
- **Multi-speed ECM blower motor standard on all models**
- Pre-painted steel cabinet
- Vertical condenser fan discharge
- Full perimeter steel base rails
- High and low pressure switches provide added reliability for the compressor



WARRANTY

- Residential: **5 year No Hassle Replacement limited warranty**
10 Year Parts w/ timely registration (5 years standard)
- limitations may apply - see complete warranty for details
- Commercial: 5 year compressor
1 year parts

UNIT PERFORMANCE DATA						
Model Number	Cooling				Operating Dimensions height x width x depth in.	Weight lbs.
	Net Capacity BTU/h High Stage	Standard CFM High / Low Stage	SEER 2	EER 2		
PAR524000K						
PAR530000K						
PAR536000K						
PAR542000K						
PAR548000K						
PAR560000K						

Accessories page 109



PHD4 Package Heat Pump Single Stage

REFRIGERATION CIRCUIT

- Aluminum tube / aluminum fin coils
- Environmentally sound R-410A refrigerant
- Scroll compressor standard on all models
- Short-cycling protection for the compressor is built into the defrost control board
- Dehumidification mode (airflow reduction) on all models



EASY TO INSTALL AND SERVICE

- Easy three-panel accessibility for maintenance and installation
- Easily converts to down discharge applications
- Combination electric heating and cooling

BUILT TO LAST

- Hail guard (3/8" spacing) wire grilles standard
- Direct drive high efficiency ECM indoor blower motor on all models
- Vertical condenser fan discharge
- Full perimeter steel base rails
- High and low pressure switches provide added reliability for the compressor



WARRANTY

- Residential: **3 year No Hassle Replacement™ limited warranty**
10 Year Parts w/ timely registration (5 years standard)
- limitations may apply - see complete warranty for details
- Commercial: 5 year compressor, 1 year parts

UNIT PERFORMANCE DATA									
Model Number	Cooling			Heat Pump		Sound Rating	Height	Width x Depth in.	Weight lbs.
	Capacity BTU/h	SEER 2	EER 2	Capacity BTU/h	HSPF 2				
PHD424000K00K	24,000	13.4	TBA	TBA	6.7	tba	47-3/4	48-3/16 x 32-5/8	332/343
PHD430000K00K	30,000	13.4	TBA	TBA	6.7	tba	51-3/4	48-3/16 x 32-5/8	369/376
PHD436000K00K	36,000	13.4	TBA	TBA	6.7	tba	48-3/4	48-3/16 x 48-3/16	406/420
PHD442000K00K	42,000	13.4	TBA	TBA	6.7	tba	54-3/4	48-3/16 x 48-3/16	426/440
PHD448000K00K	48,000	13.4	TBA	TBA	6.7	tba	54-3/4	48-3/16 x 48-3/16	426/440
PHD460000K00K	60,000	13.4	TBA	TBA	6.7	tba	48-3/4	48-3/16 x 48-3/16	496/510

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PHR5 Package Heat Pump Two Stage

REFRIGERATION CIRCUIT

- Environmentally sound R-410A refrigerant
- Aluminum tube/aluminum fin condenser and evaporator coils
- **Enhanced dehumidification feature on high stage cooling with use of a dehumidistat**
- **Two stage scroll compressors standard on all models**

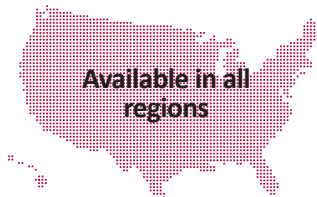


EASY TO INSTALL AND SERVICE

- Installs easily on a rooftop or at ground level
- Easy three-panel accessibility for maintenance and installation
- Easily converts to down discharge applications

BUILT TO LAST

- Hail guard (3/8" spacing) wire grilles standard
- **Multi-speed ECM blower motor standard on all models**
- Pre-painted steel cabinet
- Vertical condenser fan discharge
- Full perimeter steel base rails
- High and low pressure switches provide added reliability for the compressor



WARRANTY

- Residential: **5 year No Hassle Replacement™ limited warranty**
10 Year Parts w/ timely registration (5 years standard)
- limitations may apply - see complete warranty for details
- Commercial: 5 year compressor
1 year parts

UNIT PERFORMANCE DATA								
Model Number	Cooling				HSPF 2	Height	Width x Depth	Weight lbs.
	Net Capacity BTU/h High Stage	Standard CFM High / Low Stage	SEER 2	EER 2				
PHR524000K								
PHR530000K								
PHR536000K								
PHR542000K								
PHR548000K								
PHR560000K								

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UNITED REFRIGERATION INC.



PGD4 Package Gas/Electric

REFRIGERATION CIRCUIT

- Environmentally sound R-410A refrigerant
- Aluminum tube/aluminum fin condenser and evaporator coils
- Dehumidification mode (airflow reduction) on all models

EASY TO INSTALL AND SERVICE

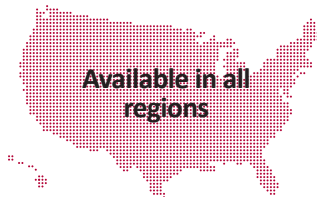
- Easy three-panel accessibility for maintenance and installation
- Easily converts to down discharge applications
- Combination gas heating and electric cooling
- Low NOx units available



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org

BUILT TO LAST

- Pre-painted steel cabinet
- Direct spark ignition
- High efficiency ECM indoor blower motor on all models
- Stainless steel tubular heat exchanger
- Vertical condenser fan discharge
- Full perimeter steel base rails
- High and low pressure switches provide added reliability for the compressor
- Change aluminum to stainless steel



WARRANTY

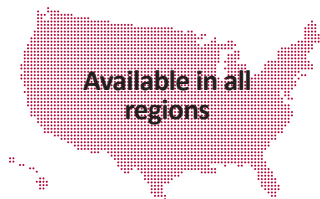
- Residential: 15 Year Heat Exchanger limited warranty
10 Year Parts w/ timely registration (5 years standard)
- limitations may apply - see complete warranty for details
- Commercial: 10 Year Heat Exchanger limited warranty
5 Year Compressor
1 Year Parts

UNIT PERFORMANCE DATA

Model Number	Cooling			Heat Pump		Operating Dimensions height x width x depth in.	Weight lbs.
	Capacity BTU/h	SEER 2	EER 2	Input BTU/h	AFUE%		
PGD424040K000K	24,000			40,000			
PGD424060K000K	24,000			60,000			
PGD430040K000K	30,000			40,000			
PGD430060K000K	30,000			60,000			
PGD436060K000K	36,000			60,000			
PGD436090K000K	36,000	TBA		90,000		TBA	TBA
PGD442060K000K	42,000			60,000			
PGD442090K000K	42,000			90,000			
PGD448090K000K	48,000			90,000			
PGD448115K000K	48,000			115,000			
PGD448130K000K	48,000			130,000			
PGD460090K000K	60,000			90,000			
PGD460115K000K	60,000			115,000			
PGD460130K000K	60,000			130,000			

* - 0 = Standard, 1 = Low NOx

Accessories page 109



PGR5 Package Gas/Electric Two Stage

REFRIGERATION CIRCUIT

- Environmentally sound R-410A refrigerant
- Aluminum tube/aluminum fin condenser and evaporator coils
- **Two stage scroll compressors standard on all models**
- **Two stage gas valve and two speed inducer motor on all models**

EASY TO INSTALL AND SERVICE

- Installs easily on a rooftop or at ground level
- Easy three-panel accessibility for maintenance and installation
- Easily converts to down discharge applications
- Combination gas heating and electric cooling
- Low NOx units available

BUILT TO LAST

- Hail guard (3/8" spacing) wire grilles standard
- Induced-draft combustion and venting
- **High efficiency ECM indoor blower motor on all models**
- Pre-painted steel cabinet
- **Direct spark ignition**
- **Stainless steel tubular heat exchanger standard**
- Vertical condenser fan discharge
- Full perimeter steel base rails
- Crankcase heaters on select models
- High and low pressure switches provide added reliability for the compressor

WARRANTY

- Residential: **5 Year No Hassle unit replacement limited warranty**
Lifetime Heat Exchanger limited warranty
 10 Year Parts w/ timely registration (5 years standard)
 - limitations may apply - see complete warranty for details
- Commercial: 10 Year Heat Exchanger limited warranty
 5 Year Compressor, 1 Year Parts

UNIT PERFORMANCE DATA

Model Number	Cooling			Heat Pump		Operating Dimensions height x width x depth in.	Weight lbs.
	Net Capacity BTU/h High / Low	SEER 2	EER 2	Input BTU/h	AFUE%		
PGR524040							
PGR524060							
PGR530040							
PGR530060							
PGR536060							
PGR536090							
PGR542060							
PGR542090							
PGR548090							
PGR548115							
PGR548130							
PGR560090							
PGR560115							
PGR560130							

* - 0 = Standard, 1 = Low NOx

Accessories page 109



PDD4 Package Dual Fuel

REFRIGERATION CIRCUIT

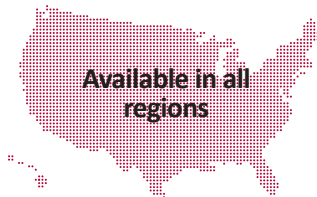
- Environmentally sound R-410A refrigerant
- Aluminum tube/aluminum fin condenser and evaporator coils
- **Two stage scroll compressors standard on all models**
- **Two stage gas valve and two speed inducer motor on all models**

EASY TO INSTALL AND SERVICE

- Installs easily on a rooftop or at ground level
- Easy three-panel accessibility for maintenance and installation
- Easily converts to down discharge applications
- Combination gas heating and electric cooling
- Low NOx units available

BUILT TO LAST

- Hail guard (3/8" spacing) wire grilles standard
- Induced-draft combustion and venting
- **High efficiency ECM indoor blower motor on all models**
- Pre-painted steel cabinet
- **Direct spark ignition**
- **Stainless steel tubular heat exchanger standard**
- Vertical condenser fan discharge
- Full perimeter steel base rails
- Crankcase heaters on select models
- High and low pressure switches provide added reliability for the compressor



WARRANTY

- Residential: **5 Year No Hassle unit replacement limited warranty**
Lifetime Heat Exchanger limited warranty
 10 Year Parts w/ timely registration (5 years standard)
 - limitations may apply - see complete warranty for details
- Commercial: 10 Year Heat Exchanger limited warranty
 5 Year Compressor, 1 Year Parts

UNIT PERFORMANCE DATA								
Model Number	Cooling			Heat		Height	Width x Depth in.	Weight lbs.
	Net Capacity BTU/h High / Low	SEER 2	EER 2	Input BTU/h	AFUE%			

TBA

* - 0 = Standard, 1 = Low NOx
 Accessories page 106



14 SEER Single Phase / Small Package Unit Accessories PGS4, PGD4, PDS4, PDD4, PAD4, PHD4

Accessory Model Number	Description	Use With			
		PDS4, PDD4†	PHD4	PAD4	PHD4
CURBS					
CPRFCURB011A00	Roof Curb, 14" High	24 - 30	24 - 60	24 - 60	24 - 30
CPRFCURB013A00	Roof Curb, 14" High	36 - 60	42 - 60	42 - 60	36 - 60
Note: CPRFCURB011A00 can be used with PGD442-60, PGS442-60, PAD442-60 units with some overhang.					
ADAPTER CURBS*					
CPADCURB001A00	Adapter Curb for use with NPRFCURB006A00 & NPRFCURB007A00	24 - 30	24 - 36	24 - 36	24 - 30
CPADCURB002A00	Adapter Curb for use with NPRFCURB008A00 & NPRFCURB009A00	36 - 60	42 - 60	42 - 60	36 - 60
* Can also be used when replacing other manufacturer's older generation units that contains a composite base without a metal base rail.					
CONCENTRIC ADAPTORS - (Use with curb only)					
NPCONADP001A00	For 18" round duct (use with curb CPRFCURB011A00)	Small Curb			
NPCONADP002A00	For 18" round duct (use with curb CPRFCURB013A00)	Large Curb			
ECONOMIZERS					
CPECOMZR007B00	Dedicated Vertical Economizer - Internal with solid state controller, gear driven, fully modulating damper, spring return actuator, up to 50% barometric relief, supply and dry bulb outdoor air sensors. Includes filter rack with 1" filters*.	24 - 30	24 - 36	24 - 36	24 - 30
CPECOMZR008A00		42, 48	42, 48	42, 48	42, 48
CPECOMZR009A00		36, 60	60	60	36, 60
CPECOMZR010A00	Dedicated Horizontal Economizer - Internal with solid state controller, fully modulating damper, spring return actuator, supply and dry bulb outdoor air sensor, and low ambient compressor lockout switch included. Includes filter rack with 1-inch filters*.	24 - 30	24 - 36	24 - 36	24 - 30
CPECOMZR011A00		42, 48	42, 48	42, 48	42, 48
CPECOMZR012A00		36, 60	60	60	36, 60
CPRLYKIT001A00	Economizer Relay for Heat Pumps	ALL	ALL	ALL	ALL
DAMPERS					
CPMANDPR007A00	Manual Outside Air Damper - includes filter rack and 1" filter (same as CPFILTRK kit)	24 - 30	24 - 36	24 - 36	24 - 30
CPMANDPR008A00		42, 48	42 - 48	42 - 48	42, 48
CPMANDPR009A00		36, 60	60	60	36, 60
INTERNAL FILTER RACKS					
CPFILTRK007A00	Internal Filter Rack (includes 1-inch filters)	24 - 30	24 - 36	24 - 36	24 - 30
CPFILTRK008A00		42, 48	42, 48	42, 48	42, 48
CPFILTRK009A00		36, 60	60	60	36, 60
LOW AMBIENT, ANTI-CYCLE TIMER, COMPRESSOR START ASSIST					
CPLOWAMB001A00*	Low Ambient Control - enables cooling system to operate down to 0 Deg. F by cycling condenser fan on and off.*	ALL			
NRTIMEGD001A00	Five Minute Compressor Delay	ALL			
NPHSTART002A00	PTC Compressor Start Assist Kit	ALL			
CRANKCASE HEATER - BELLY BAND TYPE					
CPCRKHTR008A00	240V Crankcase Heater	24 - 36	24 & 36	24 & 36	24 - 36
CPCRKHTR004A00	240V Crankcase Heater (Included on 48 & 60 size models)	42 - 60	30, 42 - 60	30, 42 - 60	42 - 60
GAS CONVERSION KITS					
NPLPCONV013B00	Natural to LP Conversion Kit (0 - 2000')	ALL		n/a	
NPLPCONV014B00	Natural to LP Conversion Kit (2001' - 6000')	ALL		n/a	
NPNGCONV004B00	LP to Natural Gas Conversion Kit (0 - 2000')	ALL		n/a	
*Relay 1184479 is required with this Low Ambient Control when used in heat pump application.					
FLUE DISCHARGE DEFLECTOR					
CRFLUEDS001A00	Directs flue gas exhaust 90 degrees upward from current discharge. Designed to allow tighter distances between unit and combustible surfaces. 24 inch Height. AGA certified.	ALL		n/a	

Continued on next page

SPLIT A/C
SPLIT HEAT PUMPS
AIR HANDLING UNITS
FURNACE COILS
FURNACE 80%
FURNACE 90%
OIL FURNACES
PACKAGE UNITS



14 SEER Single Phase / Small Package Unit Accessories
PGS4, PGD4, PDS4, PDD4, PAD4, PHD4

Accessory Model Number	Description	Use With			
		PDS4, PDD4†	PGD	PAD4	PHD4
DUCT TRANSITIONS					
NPDUCFLG002A00	Square to 14" Round (1 set of 2, use with horizontal duct flanges only)	24 - 48			
LOW PRESSURE SWITCH					
CPLPSCTL001A00	Low Pressure Switch Kit (Standard on 24 size)	-	30 - 60	30 - 60	-
HAIL GUARDS / COIL PROTECTION FOR PGD4 & PAD4 MODELS (Factory installed on PGS4 & PAD4 "TP" models)					
NAPA00501GR	3/8" spacing dense wire grilles 14"	-	24	24	-
NAPA00701GR	3/8" spacing dense wire grilles 16"	-	30	30	-
NAPA01401GR	3/8" spacing dense wire grilles 22"	-	36	36	-
NAPA00601GR	3/8" spacing dense wire grilles 14"	-	42	42	-
NAPA01201GR	3/8" spacing dense wire grilles 16"	-	48	48	-
NAPA01301GR	3/8" spacing dense wire grilles 24"	-	60	60	-

Accessory Model Number	Description	Use With			
		PDD4	PHD4	PAD4	PHD4
HAIL GUARDS / COIL PROTECTION FOR PDD4 & PHD4 MODELS (Factory installed on PDS4 & PHD4 "TP" models)					
NAPA00901GR	3/8" spacing dense wire grilles 18"	24	-		24
NAPA01401GR	3/8" spacing dense wire grilles 22"	30			30
NAPA01001GR	3/8" spacing dense wire grilles 18"	36	-		36
NAPA01301GR	3/8" spacing dense wire grilles 24"	42 - 48	-		42 - 48
NAPA01001GR	3/8" spacing dense wire grilles 18"	60			60

ELECTRIC HEATERS - PAD4					
MODEL	Nominal Capacity (kW)	Use With			
		PDD4	PHD4	PAD4	PHD4
CPHEATER052B0*	3.8/5.0	-		ALL	
CPHEATER064B0*	3.8/5.0	-		ALL	
CPHEATER069B0*	5.4/7.2	-		ALL	
CPHEATER070B0*	5.4/7.2	-		ALL	
CPHEATER065B0*	7.5/10.0	-		24 - 42	
CPHEATER050B0*	7.5/10.0	-		ALL	
CPHEATER051B0*	11.3/15.0	-		30 - 42	
CPHEATER066B0*	11.3/15.0	-		30 - 60	
CPHEATER053B0*	15.0/20.0	-		42	
CPHEATER054B0*	15.0/20.0	-		42 - 60	

ELECTRIC HEATERS - PHD4					
CPHEATER052B0*	3.8/5.0	-			24 - 36
CPHEATER064B0*	3.8/5.0	-			ALL
CPHEATER069B0*	5.4/7.2	-			24
CPHEATER070B0*	5.4/7.2	-			ALL
CPHEATER050B0*	7.5/10.0	-			ALL
CPHEATER066B0*	11.3/15.0	-			30 - 60
CPHEATER054B0*	15.0/20.0	-			42 - 60



14 SEER Single Phase / Small Package Unit Accessories
PAJ4, PHJ4

Accessory Model Number	Description	Use With	
		PAJ4	PHJ4
DUCT TRANSITIONS			
CRHSTART002A00	Compressor Start Kit assists compressor start-up by providing additional starting torque on single phase units only.	ALL	
CRANKCASE HEATER			
CRCRKHTR008A00	Crankcase Heater provides anti-floodback protection for low-load cooling applications (240V)	24 - 36	
CPCRKHTR004A00		42 - 60	
LOW AMBIENT KIT			
CPLOWAMB001A00	Low Ambient Kit (Motormaster II Control) allows the use of mechanical cooling from 0° (-18°) when properly installed	ALL	
TIME GUARD II			
NRTIMEGD001A00	Automatically prevents the compressor from restarting for at least 4 minutes and 45 seconds after shutdown of the compressor. Not require when a corporate programmable thermostat is applied.	ALL	
ACCESSORY ELECTRIC HEATERS			
MODEL	Nominal Capacity (kW)	PAJ4	PHJ4
CPHEATER125A0	3.8/5.0 (No Circuit Breaker)	24 - 60	24 - 48
CPHEATER126A0	3.8/5.0	24 - 60	24 - 60
CPHEATER127A0	5.6/7.5 (No Circuit Breaker) 2-Stages	24 - 60	24
CPHEATER128A0	5.6/7.5 2-Stages	24 - 60	24 - 60
CPHEATER129A0	7.5/10.0 (No Circuit Breaker) 2-Stages	24 - 48	NONE
CPHEATER130A0	7.5/10.0 2-Stages	24 - 48	24 - 60
CPHEATER131A0	11.3/15.0 2-Stages	36 - 60	36 - 60
CPHEATER132A0	15.0/20.0 2-Stages	48 - 60	48 - 60

SPLIT AC
SPLIT HEAT PUMPS
AIR HANDLING UNITS
FURNACE COILS
FURNACE 80%
FURNACE 90%
OIL FURNACES
PACKAGE UNITS

Continued on next page



15 SEER Single Phase / Small Package Unit Accessories PGR5, PHR5, PAR5

Accessory Model Number	Description	Use With
		PGR5, PAR5, PHR5
CURBS		
CPRFCURB011A00	Roof Curb, 14" High	24 - 60
CPRFCURB013A00	Roof Curb, 14" High	36 - 60
Note: CPRFCURB011A00 can be used with 36-60 units with some overhang.		
ADAPTER CURBS*		
CPADCURB001A00	Adapter Curb for use with NPRFCURB006A00 & NPRFCURB007A00	24 - 30
CPADCURB002A00	Adapter Curb for use with NPRFCURB008A00 & NPRFCURB009A00	36 - 60
* Can also be used when replacing other manufacturer's older generation units that contains a composite base without a metal base rail.		
CONCENTRIC ADAPTERS - (Use with curb only)		
NPCONADP001A00	For 18" round duct (use with curb CPRFCURB011A00)	Small Curb
NPCONADP002A00	For 18" round duct (use with curb CPRFCURB013A00)	Large Curb
DAMPERS		
CPMANDPR007A00	Manual Outside Air Damper - includes filter rack and 1" filter - same as CPFILTRK kit)	24 - 30
CPMANDPR008A00		36 - 42
CPMANDPR009A00		48 - 60
INTERNAL FILTER RACKS		
CPFILTRK007A00	Internal Filter Rack (includes 1-inch filters)	24 - 30
CPFILTRK008A00		36 - 42
CPFILTRK009A00		48 - 60
CRANKCASE HEATER (Factory installed on some models)		
CPCRKHTR008A00	Crankcase Heater	24 - 36
CPCRKHTR004A00	Crankcase Heater	42 - 48
LOW AMBIENT, ANTI-CYCLE TIMER, COMPRESSOR START ASSIST		
CPLOWAMB001A00	Low Ambient Control - enables cooling system to operate down to 0 Deg. F by cycling condenser fan on and off.	ALL
NRTIMEGD001A00	Five Minute Compressor Delay	ALL
NPHSTART001A00	PTC Compressor Start Assist Kit	ALL
GAS CONVERSION KITS		
NPLPCONV013B00	Natural to LP Conversion Kit (0 - 2000')	ALL
NPLPCONV014B00	Natural to LP Conversion Kit (2001' - 6000')	ALL
NPNGCONV004B00	LP to Natural Gas Conversion Kit (0 - 2000')	ALL
FLUE DISCHARGE DEFLECTOR		
CRFLUEDS001A00	Directs flue gas exhaust 90 degrees upward from current discharge. Designed to allow tighter distances between unit and combustible surfaces. 24 inch Height. AGA certified.	ALL
DUCT TRANSITIONS		
NPDUCFLG002A00	Square to 14" Round (1 set of 2, use with horizontal duct flanges only)	24 - 48
HAIL GUARDS / COIL PROTECTION (Factory installed on PGS5 models & PHR5 "TP")		
Accessory Model Number	Description	Use With
NAPA00701GR	3/8" spacing dense wire grilles	PGD5, PGS5, PAD5, PHD5 24
NAPA01001GR	3/8" spacing dense wire grilles	36
NAPA01101GR	3/8" spacing dense wire grilles	48
NAPA01301GR	3/8" spacing dense wire grilles	60



15 SEER Single Phase / Small Package Unit Accessories PGR5, PHR5, PAR5

ELECTRIC HEATERS		
MODEL	Nominal Capacity (kW) - Fused/Stages	Use With PAR5
CPHEATER052B0*	3.8/5.0 - No/1	ALL
CPHEATER064B0*	3.8/5.0 - Yes/1	ALL
CPHEATER069B0*	5.4/7.2 - No/2	ALL
CPHEATER070B0*	5.4/7.2 - Yes/2	ALL
CPHEATER065B0*	7.5/10.0 - No/2	24 - 42
CPHEATER050B0*	7.5/10.0 - Yes/2	ALL
CPHEATER051B0*	11.3/15.0 - Yes/2	30 - 42
CPHEATER066B0*	11.3/15.0 - Yes/2	30 - 60
CPHEATER053B0*	15.0/20.0 - Yes/2	42
CPHEATER054B0*	15.0/20.0 - Yes/2	42 - 60
ELECTRIC HEATERS		
MODEL	Nominal Capacity (kW) - Fused/Stages	Use With PHR5
CPHEATER052B0*	3.8/5.0 - No/1	24 - 36
CPHEATER064B0*	3.8/5.0 - Yes/1	ALL
CPHEATER069B0*	5.4/7.2 - No/2	24
CPHEATER070B0*	5.4/7.2 - Yes/2	ALL
CPHEATER050B0*	7.5/10.0 - Yes/2	ALL
CPHEATER066B0*	11.3/15.0 - Yes/2	30 - 60
CPHEATER054B0*	15.0/20.0 - Yes/2	42 - 60
ECONOMIZERS		
MODEL	Nominal Capacity (kW) - Fused/Stages	Use With PGR5, PAR5
ECD-SDSML-JC2-ADB*	Two-stage compatible vertical economizer with Jade Honeywell W7220 controller, Honeywell actuator, and dry bulb sensor. (Contact MicroMetl Customer Service at 1-800-662-4822 to order)	24 - 30
ECD-SDLGS-JC2-ADB*		36 - 42
ECD-SDLGB-JC2-ADB*		48 - 60
ECH-SDSML-JC2-ADB*	Two-stage compatible horizontal economizer with Jade Honeywell W7220 controller, Honeywell actuator, and dry bulb sensor. (Contact MicroMetl Customer Service at 1-800-662-4822 to order)	24 - 30
ECH-SDLGS-JC2-ADB*		36 - 42
ECH-SDLGB-JC2-ADB*		48 - 60
CONTROLS		
MODEL	Description	Use With
SYST0101CW	Ion Communicating Touchscreen Thermostat with Humidity Sensing and Control, Dual Fuel compatible, 2-stage cool, 2-stage gas heat, 2-stage HP heat, 2-stage electric heat	ALL‡
NAXA00101DB	Daughter Board, use with communicating thermostat TSTAT0101SC and non-communicating equipment	ALL

* Contact MicroMetl Customer Service at 1-800-662-4822 to order

‡Daughter Board required for use with TSTAT0201CW and non-communicating unit.

REFER TO PRODUCT SPECIFICATIONS FOR EXACT ACCESSORY MATCH.

SPLIT A/C
SPLIT HEAT PUMPS
AIR HANDLING UNITS
FURNACE COILS
FURNACE 80%
FURNACE 90%
OIL FURNACES
PACKAGE UNITS

Arcoaire[®]

Air Conditioning & Heating