YORK®
VRF

Variable Refrigerant Flow Systems

YORK® Variable Refrigerant Flow System

Efficiency and comfort for your customers.

New growth opportunities for your business.

Building climate control is about comfort and efficiency – delivering just the right heating and cooling to every space using no more energy than necessary. YORK variable refrigerant flow (VRF) technology lets you do that for customers in innovative ways that present new growth opportunities for your business.

VRF technology gives building owners, architects, consulting engineers, and mechanical contractors an innovative solution to address the common challenge of reducing operating costs in buildings with varied loads and occupancy rates while delivering comfort to all areas. The systems can offer:

- **Exceptional efficiency**, delivering an average of up to 39% energy savings for some applications compared to conventional HVAC systems.
- **Flexibility to specify a customized modular system** to the exacting requirements of each project, with options that include heat pump and heat recovery systems and a host of fan coil options.
- **Freedom for designers to choose ducted systems with short or long runs, or non-ducted systems** that allow for much lower clearance between building floors and therefore lower overall construction costs.
- **Impressively quiet comfort**, with control to deliver precisely the correct amount of heating or cooling to each zone.

A partnership of global leaders at your service

700 offices

150 countries

130 years of HVAC expertise

YORK® VRF systems come to you from Johnson Controls-Hitachi Air Conditioning, a global joint venture of Johnson Controls, Hitachi, Ltd., and Hitachi Appliances, Inc. These VRF technologies provide exciting new options to help you approach each project with innovative solutions that are modular, flexible, and exceptionally efficient.

Customers globally now can access the most diverse range of air conditioning products in the industry. VRF systems challenge traditional thinking about how to achieve the optimum in efficient building comfort control. With YORK VRF systems, you get results you can count on from companies with proven records of growth and global HVAC leadership.

Majority owner Johnson Controls, founded in 1885, is a global multi-industrial company with 130 years of history in supplying a wide portfolio of HVAC, building control, refrigeration and security systems for buildings. Through its Building Efficiency business, the company delivers solutions that increase energy efficiency and lower operating costs for more than a million customers, served through nearly 700 offices in more than 150 countries.

Hitachi Appliances, a global home appliances and air conditioning solutions provider, supplies high quality, efficient and reliable HVAC products, from residential room air conditioning to VRF systems and other air conditioning equipment for commercial and industrial users. Its products are renowned for energy savings, superior quality, extraordinary reliability, and consistent comfort for homes and businesses.

The joint venture has some 14,000 employees and 24 global locations dedicated to design, engineering and manufacturing throughout Asia, Europe and Latin America. It will build on both organizations' leadership in technology and research and development, while expanding service to global markets.

When you partner with us, you benefit from proven VRF technologies backed by two of the industry's most trusted companies. Johnson Controls-Hitachi Air Conditioning is the only North American-owned VRF producer. We are uniquely positioned to develop and deploy VRF systems created without compromise to suit the climate conditions, code requirements and technology preferences shared by customers in North American countries.

Variable flow means constant comfort and efficiency

In the HVAC world, the term "variable" connotes efficiency. Variable-speed chillers save energy and avoid the wear and tear of frequent cycling. Variable air volume systems improve air conditioning efficiency by modulating air delivery volumes within specific zones.

The YORK® variable refrigerant flow systems achieve extremely high efficiencies by modulating the flow of refrigerant according to the exact demands of individual areas with innovative inverter-driven scroll compressor technology.

Proven efficiency, comfort, ease of installation and quiet operation have been the main drivers of VRF technology adoption in Asia, Europe and South America for the past several decades. Now, YORK VRF systems, built for outstanding quality and reliability, can help North America's building owners meet the challenge of rising energy prices and the global imperatives to save energy and cut pollutant and CO_2 emissions.

Hitachi Appliances has been manufacturing VRF systems for more than 30 years in Japan, 12 years in China, 15 years in Southern Asia, 9 years in Latin America and 10 years in Europe.

Introducing YORK® VRF from Johnson Controls

YORK VRF systems are modular and controlled solutions that include models with capability to simultaneously heat and cool different zones.

The technology brings an array of advantages over conventional systems.

- **Save on energy.** Systems essentially eliminate duct losses. In addition, variable-speed compressors in outdoor units provide extremely high part-load efficiency.
- **Keep people comfortable**. Users can set individual temperature set points for multiple zones. Variable-speed compressors with wide capacity and precise modulation help maintain each zone's temperature within a narrow range. Indoor units also operate quietly.
- **Go green.** VRF technology can help users attain LEED® certification points for resource efficiency.

Enjoy design freedom

A variety of standard modular components let you customize and size equipment to meet specific project requirements. Because ductwork is generally needed only for ventilation, ducts can be smaller, reducing capital cost. Systems can easily be adapted as space is reconfigured. Unlike conventional HVAC systems, VRF systems allow addition of capacity to accommodate expansion simply by adding modular units (capacities 6 to 30 tons). There is no need to remove and replace the original unit or reconfigure ductwork.

Install with ease

YORK VRF systems are designed for quick and simple installation, since piping from the outdoor units can be connected from the front, back, or underneath. Indoor units are relatively small and light and easy to transport and handle; outdoor units can be brought into a building for installation on a rooftop via a service elevator – no crane or other heavy equipment is needed. Service is simple, too: Systems need little maintenance beyond changing filters and cleaning coils. Removal of a single panel provides easy access to all components: control boards, electrical connections, compressor and piping.

Gain control flexibility

Users can deploy from three basic control options.

- **Indoor fan coil units** come with a selection of thermostats (controllers), from simple units with on/off, setpoint, load and speed settings, to programmable units that enable scheduling. Wireless units are available to provide remote control of zone space conditions.
- **Central station controllers** for larger projects provide remote control and scheduling of the entire system from one or more control points.
- **Adapters (gateways)** enable control of large buildings or campuses through building automation systems such as Metasys®.

Choose multiple applications

YORK VRF systems suit a wide range of buildings in new construction and retrofits. Prime candidates include:

- **Buildings with multiple zones** that have different comfort needs – such as hotels, schools, medical office buildings, commercial office buildings and others.
- **Historical building renovations** in which ducted HVAC options are severely limited and the basic building structure must not be disturbed.
- **Buildings in climate zones favorable for heat pump technology.**

Industry certified

YORK VRF systems are Intertek ETL Listed (Canada & USA), signifying that they comply with the standard of Heating and Cooling Equipment (ANSI/UL 1995 and CAN/CSA C22.2 No. 236-11, 4th Edition, October 14, 2011). Our Mini VRF products are tested under AHRI 210/240.

The systems are also certified by the Air Conditioning, Heating & Refrigeration Institute.

Advanced compressor technology yields the highest efficiency ratings resulting in energy savings

The YORK VRF Systems boast efficiencies up to:

- **29.5 SCHE**
- **25.2 IEER**
- **15.6 EER**
- **4.21 COP at 47° F**
- **2.78 COP at 17° F**

Rated highest for energy efficiency

YORK® systems rank impressively high in the ratings that matter most for VRF technology. The traditional measure of HVAC equipment, energy efficiency ratio (EER), measures system efficiency at full load. While this may be appropriate for equipment that operates in a traditional cycle (fully on or fully off), it is not appropriate for properly sized VRF systems, which spend the vast majority of time at part load, reaching full load only on the hottest or coldest days. YORK VRF systems excel against truer measures of efficiency:

- **Integrated energy efficiency ratio (IEER),** which expresses cooling efficiency based on weighted operation at various part-load conditions. YORK VRF systems carry IEER ratings as high as 25.2.
- **Simultaneous cooling and heating efficiency (SCHE),** which applies to VRF systems with energy recovery features. SCHE is defined as the ratio of a system's total capacity (heating and cooling) to the effective power consumption. YORK VRF systems carry SCHE ratings as high as 29.5.

Exclusive Hitachi compressor results in high efficiency ratings

The core technology of YORK VRF systems is the exclusive Hitachi-designed high-efficiency scroll compressor. Hitachi invented the first air conditioning scroll compressor in 1983 and in 2008 applied a cutting-edge large-capacity scroll compressor to VRF technology. Its advantages include a high compression ratio, excellent reliability and efficiency, and lower compressor noise level.

Profit from quality and innovation

The YORK VRF line includes a wide selection of products and control options. Numerous innovative features enhance performance, energy efficiency, quiet operation and service life. Quality is built in, from design through manufacturing in state-of-the-art, ISO-certified facilities.

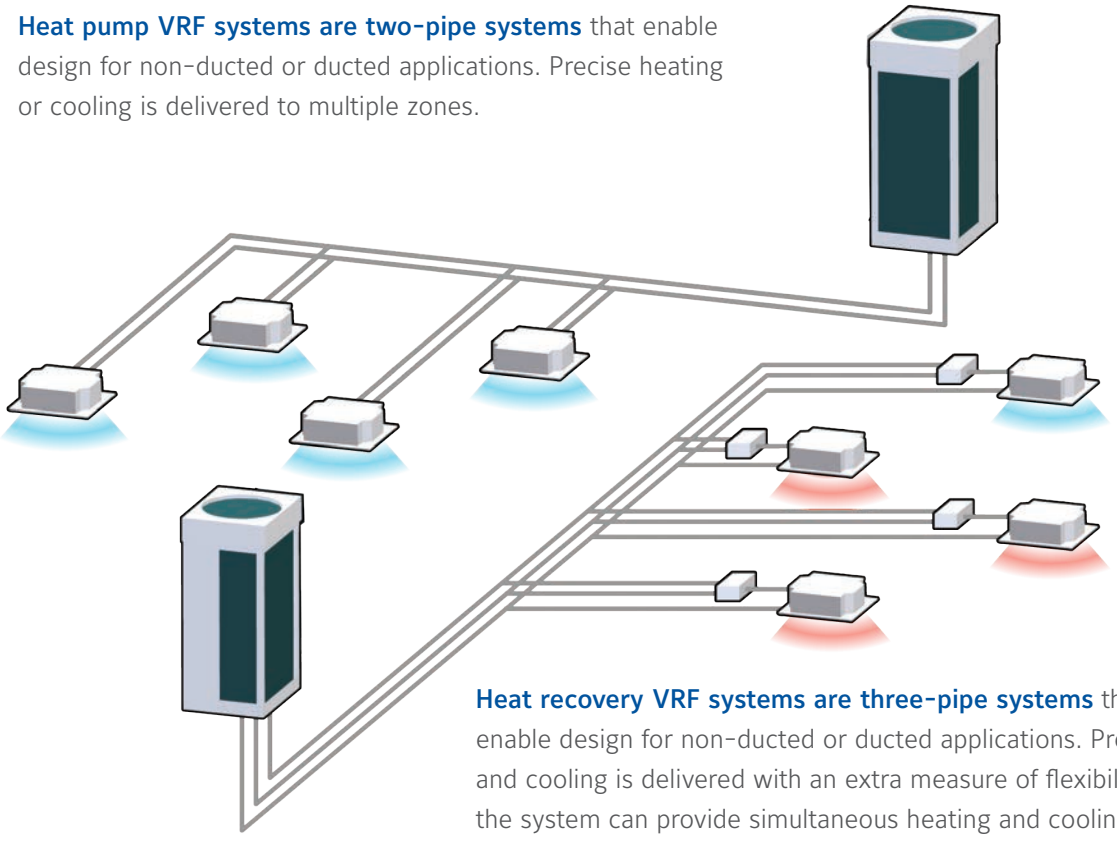
How VRF works

A VRF system typically consists of one or more outdoor units from which refrigerant is piped to a series of indoor fan coil units serving individual zones within building spaces. The system conditions the spaces by delivering to the indoor fan coil units only the volume of refrigerant required to meet the heating or cooling needs of each zone *(see Figure 1)*.

There are two basic types of YORK VRF systems, ranging in capacity from 3-30 tons:

- Heat pump VRF systems are two-pipe systems
- Heat recovery VRF systems are three-pipe systems

Heat pump VRF systems are two-pipe systems that enable design for non-ducted or ducted applications. Precise heating or cooling is delivered to multiple zones.



Heat recovery VRF systems are three-pipe systems that also enable design for non-ducted or ducted applications. Precise heating and cooling is delivered with an extra measure of flexibility, since the system can provide simultaneous heating and cooling while transferring any excess heat or cooling from one zone to another.

Get expert advice at every step: select, design, specify, install

Your Johnson Controls account team supports you as no one else can, at every step of every project. Effective training, intuitive design and selection software, advanced logistics and delivery, and easily accessible documentation form a powerful support package that adds substantial value to YORK VRF systems.

Get your team up to speed fast. Efficient performance, quality installations.

Comprehensive training programs provide knowledge and skills necessary to effectively and efficiently deploy YORK VRF technology. Our world-class VRF training center offers a multitude of classes with specialized modules and topics that help:

- **Salespeople** submit competitive bids and close deals.
- **Designers** select and configure the right equipment easily and accurately.
- **Installers** learn the proper procedures and complete jobs accurately, on time and on budget.
- **Service technicians** maintain, troubleshoot and repair systems efficiently.

The training center includes a dedicated VRF laboratory to provide hands-on experience with the various systems, components and controls. Videos and webinars supplement classroom learning on specific subjects and refresh and enhance the skills of your sales, design, installation, and service teams. YORK VRF training programs help deliver peace of mind that your staff is prepared to support your business with the knowledge to compete in a growing industry.

Get the tools that give you an edge

Right-size systems with intuitive selection software

The YORK VRF selection software intuitively guides you step by step through equipment selection, so you can quickly and accurately choose an appropriate and cost-effective equipment package for each project.

Web-based program

The Web-based program allows access from any computer or tablet. The software helps you:

- **Design accurate final system drawings** including piping and wiring diagrams in an easy, quick, step-by-step process.
- **Accurately select systems** using a System Sizing Analysis. The process starts with the indoor fan coil units, so that outdoor units are optimally sized. Proprietary algorithms figure the system size using data input on the indoor units, load, and measurements, so your system does not include capacity that will go unutilized.
- **Use intuitively designed features and functionality** that make the design process easy, fast, and accurate. You can select options and accessories without referring to additional information or performing additional calculations.
- **Gain an edge** by confidently designing VRF systems that are right-sized, and include the right equipment for each project.

Consistent delivery: Get the right equipment to the jobsite on time

Ample inventory and advanced order management and logistics systems can help you complete installations in a timely manner. Consistent service and predictable deliveries help you prevent delays waiting for essential components and enable you to set a project timeline and schedule labor efficiently. Fast and accurate parts delivery from our state-of-the-art main distribution center in Memphis – where UPS and FedEx have hubs – helps simplify expedited shipments.

Put product information in technicians' hands

Easy access to product information helps designers, contractors and service personnel work accurately and efficiently. Our secure web portal, VRFPro.com, provides product documentation, technical and service manuals, troubleshooting guides, brochures, videos, technical support, contact information, and more. All information is available instantly via smartphone or tablet by scanning the Quick Reference (QR) code on the product nameplate. The QR code also can be used to make warranty registration even easier.

Let's go to work – together

YORK® VRF systems can be configured to meet your project requirements and deliver exceptional performance. Select heat pump or heat recovery outdoor units with DC inverter-driven compressors offering energy savings and the ability to scale to size. Indoor units for ducted or non-ducted applications offer optional motion sensing control for even greater energy savings. Multiple ventilation options help make sure your systems introduce the right volume of outside air. A host of options and accessories help ensure a custom fit for your project. And users benefit from our variety of control technology options.

Let's explore the many advantages of VRF systems together so you can put them to work for your customers. On these pages, you can explore detailed information on the full range of YORK VRF systems.

Get winning advice to make the best decisions

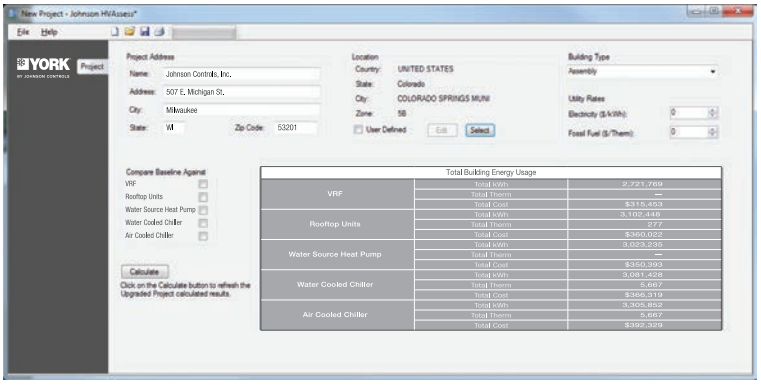
YORK® VRF systems bring exciting new possibilities in building space conditioning, enabling you to satisfy customers, win more business, and enhance your reputation. When you work with Johnson Controls as your partner, our experts can guide you through a thorough analysis to select the system that best delivers exceptional energy efficiency, increased occupant comfort, and a lower life-cycle cost. You can choose from a wide portfolio of HVAC solutions including:

- YORK VRF systems
- YORK chillers
- YORK rooftop units
- YORK custom built-up air handlers
- Metasys® building automation systems

Our analysis will provide data that helps you appropriately compare all options, so you can make the best-informed decision on every project.

Compare VRF with other HVAC systems using our exclusive energy modeling tool

- **The ability to compare** a VRF system to a number of different HVAC systems to objectively select the most efficient technology for your building.
- **Multiple building models** simulate energy usage for various project types, helping your system selection process.
- **Our exclusive software** helps you quickly and easily compare – so you don't waste time generating individual analyses for comparison.
- **Software features include** the ability to import project data into EnergyPro for complete building energy modeling.



YORK VRF systems

YORK Chillers

YORK Rooftop Units

YORK custom built-up air handlers

YORK VRF Systems: Summary of Features and Benefits

	FEATURES	ADVANTAGES	BENEFITS
ARCHITECT / SYSTEM DESIGNER	**Piping flexibility: Design systems with pipe runs up to 3,281 feet**	· Suitable for short or long runs; accommodates nearly all projects	· Allows design freedom
	Compact footprint	· Requires less indoor space than conventional systems	· Expands options for positioning outdoor units
	Modular components	· Provides flexibility to customize systems to each project's needs	· Simplifies design process · Allows easy updates as space is reconfigured or expanded
	Non-ducted systems	· Ultimate in design flexibility · Reduces clearance between building floors	· Reduces system costs · Ideal for historic renovations
	Ducted systems	· Accommodates retrofits by making use of existing duct infrastructure · Suits unique buildings that include ducted and non-ducted areas	· Reduces overall construction costs
	Heat pump VRF systems	· Precisely heats or cools multiple zones	· Provides extreme system design flexibility
	Heat recovery VRF systems	· Allows simultaneous heating/cooling · Allows transfer of excess heat/cooling from one zone to another	· Maximizes comfort and efficiency · Maximizes design flexibility · Increases occupant comfort to specified zones
	Comprehensive training	· Modules tailored to specific job functions	· Enables effective equipment selection and specification
	Web-based system selection software	· Intuitive functionality that simplifies and speeds designs · Accessible from any computer or tablet	· Allows confident selection and right-sizing of systems
MECHANICAL CONTRACTOR / INSTALLER	**Installation simplicity**	· Outdoor unit piping can be connected from front, back or underneath. · Small and light indoor units are easy to handle without heavy equipment	· Reduces installation time and cost
	Comprehensive training	· Modules tailored to specific job functions	· Enables professional, high-quality, timely installation
	Consistent, reliable product delivery	· Ensures correct components are delivered to job sites on time	· Enhances installation efficiency · Allows efficient labor scheduling
	Easy maintenance access	· All components accessible via removal of one panel	· Speeds up time spent on maintenance, repair, and troubleshooting
	Easy access to product information	· All product information is available on VRFPro.com portal · QR code on unit nameplate allows access to all information on that unit, including warranty registration.	· Simplifies and speeds maintenance, troubleshooting and repairs
	Refrigerant check	· Checks to make sure system is charged with the correct amount of refrigerant to meet requirements.	· Helps contractor and installer adjust for optimum efficiency and performance

		FEATURES	ADVANTAGES	BENEFITS
BUILDING OWNER	System	**Rotational operation**	· In multiple-unit applications at partial load, outdoor units operate alternately so that operating hours are shared equally.	· Optimizes efficiency · Extends service life · Increases reliability
		Backup operation function	· Allows one outdoor unit to be taken off-line for maintenance while remaining units keep operating.	· Avoids system downtime · Protects occupant comfort
		Efficiency optimized for part-load operation	· SCHE among industry's highest for VRF systems	· Saves energy
		Optimum individualized comfort	· Heat recovery systems deliver simultaneous heating and cooling	· Efficient heating/cooling · Maximizes occupant comfort
		Noise reduction preference mode	· Lets users choose from three settings for a "not to exceed" sound level	· Extremely quiet (sound ratings as low as 50 dBA for outdoor units; 27 dBA for indoor units) · Ideal where outdoor units are positioned on side of building or in locations where there are noise restrictions
	Compressor	**DC inverter-driven scroll compressor**	· Engineered to deliver the optimum efficiency at normal load conditions	· Among industry's most efficient VRF systems: · Highest IEER · Highest SCHE · Highest COP in low and high heating modes
		Compressor modulation in 1 Hz increments	· Smoothly delivers only the exact amount of refrigerant needed for the load	· Allows fine control for optimum comfort · Saves energy
	Outdoor Units	**Demand control**	· Users can select from a wide variety of power settings from 100% to 60% and program "not to exceed" a given power level	· Limits electric demand charges · Limits equipment wear and tear · Reduces noise
		Load shedding	· Allows programming to turn units on/off in rotation at 10- to 20-minute intervals	· Saves energy · Limits demand charges
		Double-blade fan	· Longer fan blades increase airflow quantity by 25%, resulting in higher static pressure	· Reduces noise · Extends motor life
	Indoor Units	**As high as .74 WG static pressure in ducted systems**	· Offers adjustable speeds to match the static pressure requirement	· Flexibility to accommodate long or short ductwork runs
		Optional motion and radiant sensors	· Sets back temperature when space is unoccupied, increasing efficiency even further	· Saves energy
	Controls	**H-Link II Protocol**	· Controls multiple indoor and outdoor units from one control point · Adds versatility to connect various central control options	· Maximizes indoor comfort · Saves energy · Improves system management
		Temperature control	· Adjusts in 1 degree F increments · Adjustable fan speeds	· Auto-adjusts for daylight saving time · Provides options to satisfy multiple projects/ buildings
		H-LINK II BACnet adapter for integration into BMS	· Enables control of VRF systems by way of a building management system (e.g. Metasys®) for almost unlimited control in a building of campus enterprise.	· Optimizes comfort · Saves energy · Unified interface for all HVAC systems

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Indoor Units

YORK VRF indoor units operate quietly and are easy to install, service and maintain.

A wide variety of non-ducted and ducted units are available in styles and capacities to fit multiple applications. Units operate quietly with sound ratings as low as 24.5 dBA.

1-Way Cassette
2-Way Cassette
4-Way Cassette
Mini Cassette
Ceiling Suspended
Wall Mount
Floor Exposed
Floor Concealed

Ducted High Static
Ducted Medium Static
Ducted Slim
Dedicated Outside Air System (DOAS)
EconoFresh

Available Summer 2016:
4-Position Air Handler

YORK VRF

Indoor Units Overview

Choose the style and size from the wide selection of indoor units to meet your requirements for layout and design.

NON-DUCTED INDOOR UNIT MODEL NUMBERS

1-Way Cassette

YIC1006B21S
YIC1008B21S
YIC1012B21S
YIC1015B21S

2-Way Cassette

YIC1006B21S
YIC1008B21S
YIC1012B21S
YIC1015B21S

4-Way Cassette

YIC4012B21S
YIC4015B21S
YIC4018B21S
YIC4024B21S
YIC4030B21S
YIC4036B21S

Mini Cassette

YICM008B21S
YICM012B21S
YICM015B21S
YICM018B21S

Ceiling Suspended

YICS015B21S
YICS024B21S
YICS030B21S
YICS036B21S

Wall Mount

TIWM1006B21S
TIWM1008B21S
TIWM1012B21S
TIWM015B21S
TIWM018B21S
TIWM024B21S

Floor Concealed

YIFC006B21S
YIFC008B21S
YIFC012B21S
YIFC015B21S

Floor Exposed

YIFE006B21S
YIFE008B21S
YIFE012B21S
YIFE015B21S

DUCTED INDOOR UNIT MODEL NUMBERS

Dedicated Outside Air System (DOAS)

YDOA096B21S

EconoFresh

YIDM030B21E
YIDM036B21E
YIDM048B21E

Ducted Medium Static

YIDM006B21S
YIDM008B21S
YIDM012B21S
YIDM015B21S
YIDM018B21S
YIDM024B21S
YIDM030B21S
YIDM036B21S
YIDM048B21S

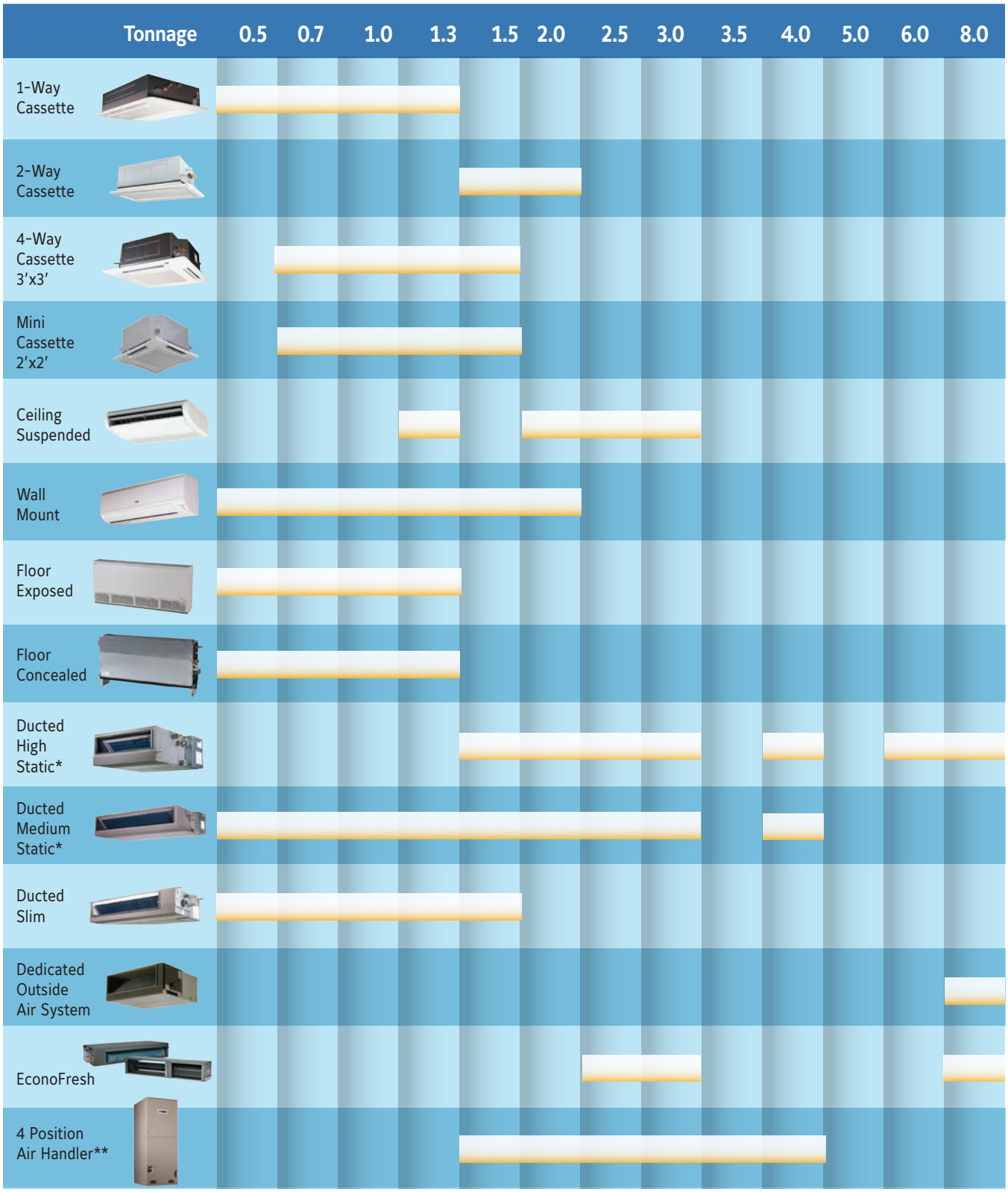
Ducted High Static

YIDH018B21S
YIDH024B21S
YIDH030B21S
YIDH036B21S
YIDH048B21S
YIDH072B21S
YIDH096B21S

Ducted Slim

YIDS006B21S
YIDS008B21S
YIDS012B21S
YIDS015B21S
YIDS018B21S

Indoor Unit Selection



** Mini VRF compatible with high and medium static ducted units up to and including 4.0 Tons.*

***Available summer 2016.*

1-Way Cassette Indoor Unit

Ceiling-mounted one-way cassettes offer compact designs and a choice of corner-mounted, one-way discharge or two-way discharge (from the front and downward).

Key Features

- Slim and stylish design
- Automatic swing louver distributes airflow evenly for uniform temperature
- Optional energy saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy.

1-Way Cassette Indoor Unit

Capacities 6,000 to 15,000 Btu/hr

Tonnage				0.5		0.7		1.0		1.3	
1-Way Cassette Indoor Unit –Model				YIC1006B21S		YIC1008B21S		YIC1012B21S		YIC1015B21S	
Power Supply				AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity *		Btu / h	(kW)	6000	(1.8)	8000	(2.3)	12000	(3.5)	15000	(4.4)
Nominal Heating Capacity *		Btu / h	(kW)	6700	(2.0)	9000	(2.6)	13500	(4.0)	17000	(5.0)
Sound Pressure Level (Overall A Scale)		dB		34-32-29-27		36-34-31-28		40-37-33-31		42-38-35-31	
Outer Dimensions	Height	in.	(mm)	9-1/4	(235)	9-1/4	(235)	9-1/4	(235)	9-1/4	(235)
	Width	in.	(mm)	35-7/16	(900)	35-7/16	(900)	35-7/16	(900)	35-7/16	(900)
	Depth	in.	(mm)	27-15/16	(710)	27-15/16	(710)	27-15/16	(710)	27-15/16	(710)
Net Weight		lbs.	(kg)	55	(25)	55	(25)	57	(26)	57	(26)
Refrigerant		–		R410A							
Indoor Fan	Air Flow Rate	cfm		300-265-229-212		335-300-265-229		459-406-353-300		512-459-388-335	
	(Hi2-Hi-Me-Lo)	(m^3/min)		(8.5-7.5-6.5-6)		(9.5-8.5-7.5-6.5)		(13-11.5-10-8.5)		(14.5-13-11-9.5)	
External Pressure		in.W.G		0.0		0.0		0.0		0.0	
		(Pa)		(0)		(0)		(0)		(0)	
Motor Nominal Output		W		50		50		50		50	
Connections											
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)							
	Liquid LIne	in.	(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)
	Gas Line	in.	(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)
Condensate Drain				VP25							
	OD	in.	(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.	(mm)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)
Adjustable Panel Model Name				P-AP36CNA				P-AP56CNA			
Applicable Indoor Unit Model				YIC1006B21S and YIC1008B21S				YIC1012B21S and YIC1015B21S			
Color				Neutral White							
Dimension	Height	in.	(mm)	1-3/8 (35)							
	Width	in.	(mm)	43-5/16 (1100)							
	Depth	in.	(mm)	31-1/2 (800)							
Net Weight		lbs.	(kg)	10 (4.5)							

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

YORK VRF

2-Way Cassette Indoor Unit

With a sound level down to 33 dB(A) this unit is among the quietest on the market. Individual louver control with auto-swing or fixed air exhaust angles enables comfortable space environment in a variety of different room layouts.

Capacities 18,000 to 24,000 Btu/hr

Key Features

- Nominal capacity of 18 or 24 MBH
- Compact design – requires only 11-3/4" height
- Energy efficient DC fan motor
- Optional Air Filter box
- Standard integrated condensate DC drain pump with 33-7/16 inch lift height
- Optional energy saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy.

Tonnage				1.5		2.0	
2-Way Cassette Indoor Unit – Model				YIC2018B21S		YIC2024B21S	
Power Supply				AC 1 Phase, 208/230V, 60Hz			
Nominal Cooling Capacity *		Btu/h	(kW)	18,000	(5.3)	24,000	(7.0)
Nominal Heating Capacity *		Btu/h	(kW)	20,000	(5.9)	27,000	(7.9)
Sound Pressure Level (Overall A Scale) (Hi2-Hi-Me-Lo)		dB		42-39-36-33		46-43-39-34	
Outer Dimensions	Height	in.	(mm)	11-3/4	(298)	11-3/4	(298)
	Width	in.	(mm)	33-7/8	(860)	33-7/8	(860)
	Depth	in.	(mm)	24-13/16	(630)	24-13/16	(630)
Net Weight		lbs.	(kg)	55.1	(25)	55.1	(25)
Refrigerant				R410A			
Indoor Fan	Air Flow Rate**	cfm		653-582-512-441		777-688-582-459	
	(Hi2-Hi-Me-Lo)	(m^3/min)		(18.5-16.5-14.5-12.5)		(22-19.5-16.5-13)	
External Pressure		in.W.G		0.0		0.0	
		(Pa)		(0)		(0)	
Motor Nominal Output		W		57		57	
Connections							
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)			
	Liquid Line	in.	(mm)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.	(mm)	5/8	(15.88)	5/8	(15.88)
Condensate Drain				VP25		VP25	
	OD	in.	(mm)	1-1/4	(32)	1-1/4	(32)
	ID	in.	(mm)	31/32	(25)	31/32	(25)
Adaptable Panel Model				P-AP90DNA (without Motion Sensor)			
Color				Neutral White			
Outer Dimensions	Height	in.	(mm)	1-3/16		(30)	
	Width	in.	(mm)	43-5/16		(1,100)	
	Depth	in.	(mm)	27-15/16		(709)	
Net Weight		in.	(mm)	16.5		(7.5)	

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

Mini Cassette Indoor Unit

Mini-cassette indoor units are designed to meet a variety of building requirements in energy efficient, quiet packages. Compact size enables installation in tight spaces.

Capacities 8,000 to 18,000 Btu/hr

Key Features

- High-performance and high-efficiency heat exchanger
- Efficient turbo fan for low-noise performance
- Wide range of volume settings
- Optional energy saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy.

Tonnage				0.7		1.0		1.3		1.5	
4-Way Mini Cassette Indoor Unit – Model				YICM008B21S		YICM012B21S		YICM015B21S		YICM018B21S	
Power Supply				AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity*		Btu / h	(kW)	8,000	(2.3)	12,000	(3.5)	15,000	(4.4)	18,000	(5.3)
Nominal Heating Capacity*		Btu / h	(kW)	9,000	(2.6)	13,500	(4.0)	17,000	(5.0)	20,000	(5.9)
Sound Pressure Level (Overall A Scale) (Hi2-Hi-Me-Lo)		dB		38-34-30-24.5		41-37-33-27.5		45-39-35-31		47-43-39-35	
Outer Dimensions	Height	in.	(mm)	11-1/4	(285)	11-1/4	(285)	11-1/4	(285)	11-1/4	(285)
	Width	in.	(mm)	22-7/16	(570)	22-7/16	(570)	22-7/16	(570)	22-7/16	(570)
	Depth	in.	(mm)	22-7/16	(570)	22-7/16	(570)	22-7/16	(570)	22-7/16	(570)
Net Weight		lbs.	(kg)	35	(16)	35	(16)	37	(17)	37	(17)
Refrigerant		–		R410A							
Indoor Fan	Air Flow Rate	cfm		424-353-300-212		459-388-335-247		530-424-353-282		565-494-424-353	
	(Hi2-Hi-Me-Lo)	(m^3/min)		(12-10-8.5-6)		(13-11-9.5-7)		(15-12-10-8)		(16-14-12-10)	
External Pressure		in.W.G		0.0		0.0		0.0		0.0	
		(Pa)		(0)		(0)		(0)		(0)	
Motor Nominal Output		W		57		57		57		57	
Connections											
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.	(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)
	Gas Line	in.	(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	5/8	(15.88)
Condensate Drain				VP25							
	OD	in.	(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.	(mm)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)
Adaptable Panel Model				P-AP56NAM							
Color				Neutral White							
Outer Dimensions	Height	in.	(mm)	1-3/16				(30)			
	Width	in.	(mm)	24-13/32				(620)			
	Depth	in.	(mm)	24-13/32				(620)			
Net Weight		lbs.	(kg)	6				(3)			

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

4-Way Cassette Indoor Unit

Ceiling-mounted 4-way cassettes measuring 33 x 33 inch (84 x 84 cm) are offered with standard decorative panels. Compact, thin and lightweight, they are easy to install even in tight spaces.

Tonnage			1.0		1.3	
4-Way Cassette Indoor Unit – Model			**YIC4012B21S**		**YIC4015B21S**	
Power Supply			AC 1Phase, 208/230V, 60Hz			
Nominal Cooling Capacity *		Btu/h	12,000		15,000	
		(kW)	(3.5)		(4.4)	
Nominal Heating Capacity *		Btu/h	13,500		17,000	
		(kW)	(4.0)		(5.0)	
Sound Pressure Level (Overall A Scale)		dB	35-31-30-27		37-32-30-27	
Outer Dimensions	Height	in. (mm)	9-3/4	(248)	9-3/4	(248)
	Width	in. (mm)	33-1/16	(840)	33-1/16	(840)
	Depth	in. (mm)	33-1/16	(840)	33-1/16	(840)
Net Weight		lbs. (kg)	46	(21)	46	(21)
Refrigerant			R410A			
Indoor Fan	Air Flow Rate	cfm	741-600-494-388		777-600-494-388	
	(Hi2-Hi-Me-Lo)	(m^3/min)	(21-17-14-11)		(22-17-14-11)	
External Pressure		in.W.G	0.0		0.0	
		(Pa)	(0)		(0)	
Motor Nominal Output		W	57		57	
Connections						
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)			
	Liquid Line	in.(mm)	1/4	(6.35)	1/4	(6.35)
	Gas Line	in.(mm)	1/2	(12.70)	1/2	(12.70)
Condensate Drain			VP25		VP25	
	OD	in.(mm)	1-1/4	(32)	1-1/4	(32)
	ID	in.(mm)	31/32	(25)	31/32	(25)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

4-Way Cassette Indoor Unit *(continued)*

Key Features

- Optional energy saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy.
- Multiple fan speed settings
- Air filter (polypropylene) included. Anti-bacterial filter available.
- Optional fresh air kit available
- Four air volume settings including Ultra Hi for higher ceilings
- 4-way airflow standard but can be configured for 2-way or 3-way
- Integrated condensate pumps included in all units.
- Uniform panel sizing

Capacities: 12,000 to 36,000 Btu/hr

Tonnage			1.5		2.0		2.5		3.0	
4-Way Cassette Indoor Unit – Model			**YIC4018B21S**		**YIC4024B21S**		**YIC4030B21S**		**YIC4036B21S**	
Power Supply			AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity *		Btu/h	18,000		24,000		30,000		36,000	
		(kW)	(5.3)		(7.0)		(8.8)		(10.5)	
Nominal Heating Capacity *		Btu/h	20,000		27,000		34,000		40,000	
		(kW)	(5.8)		(7.9)		(10.0)		(11.7)	
Sound Pressure Level (Overall A Scale)		dB	42-36-32-28		42-36-32-28		48-43-39-33		48-45-40-35	
Outer Dimensions	Height	in. (mm)	9-3/4	(248)	11-23/32	(298)	11-23/32	(298)	11-23/32	(298)
	Width	in. (mm)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)
	Depth	in. (mm)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)	33-1/16	(840)
Net Weight		lbs. (kg)	49	(22)	57	(26)	57	(26)	57	(26)
Refrigerant			R410A							
Indoor Fan	Air Flow Rate	cfm	953-777-635-494		953-812-635-494		1306-1094-847-706		1306-1165-918-741	
	(Hi2-Hi-Me-Lo)	(m^3/min)	(27-22-18-14)		(27-23-18-14)		(37-31-24-20)		(37-33-26-21)	
External Pressure		in.W.G	0.0		0.0		0.0		0.0	
		(Pa)	(0)		(0)		(0)		(0)	
Motor Nominal Output		W	57		57		127		127	
Connections										
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain			VP25		VP25		VP25		VP25	
	OD	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.(mm)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)

Adaptable Panel Model *(applies to all models)*			P-AP160NA2 (without Motion and Radiation Sensors)		P-AP160NAE1 (with Motion and Radiation Sensors)	
Color			Neutral White			
Outer Dimensions						
	Height	in.(mm)	1-9/16	(40)	1-9/16	(40)
	Width	in.(mm)	37-13/32	(950)	37-13/32	(950)
	Depth	in.(mm)	37-13/32	(950)	37-13/32	(950)
Net Weight		lbs(kg)	14	(6.5)	14	(6.5)

See notes on page 20 for cooling operation and heating operation conditions.

Ceiling Suspended Indoor Unit

Ceiling-suspended indoor units have a stylized design and color than make them among the most elegant units on the market. Units are equipped with an automatic swing louver to ensure even air distribution.

Key Features

- Optional energy saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy.
- New fan runner for high efficiency and low noise
- Flexible installation for high ceilings

Ceiling Suspended Indoor Unit

Capacities 15,000 to 36,000 Btu/hr

Tonnage				1.3		2.0		2.5		3.0	
Ceiling Suspended Indoor Unit – Model				YICS015B21S		YICS024B21S		YICS030B21S		YICS036B21S	
Power Supply				AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity *		Btu / h	(kW)	15,000	(4.4)	24,000	(7.0)	30,,000	(8.8)	36,000	(10.5)
Nominal Heating Capacity *		Btu / h	(kW)	17,000	(5.0)	27,000	(7.9)	34,000	(10.0)	40,000	(11.7)
Sound Pressure Level (Overall A Scale)		dB		38-35-31-28		43-40-36-31		44-42-37-32		48-45-41-35	
Outer Dimensions	Height	in.	(mm)	9-1/4	(235)	9-1/4	(235)	9-1/4	(235)	9-1/4	(235)
	Width	in.	(mm)	37-13/16	(960)	50	(1270)	62-3/16	(1580)	62-3/16	(1580)
	Depth	in.	(mm)	27-3/16	(690)	27-3/16	(690)	27-3/16	(690)	27-3/16	(690)
Net Weight		lbs.	(kg)	59	(27)	77	(35)	90	(41)	90	(41)
Refrigerant		–		R410A							
Indoor Fan	Air Flow Rate		cfm	530-459-388-318		847-741-635-512		1059-935-777-600		1236-1094-900-706	
	(Hi2-Hi-Me-Lo)		(m^3/min)	(15-13-11-9)		(24-21-18-14.5)		(30-26.5-22-17)		(35-31-25.5-20)	
External Pressure			in.W.G	0.0		0.0		0.0		0.0	
			(Pa)	(0)		(0)		(0)		(0)	
Motor Nominal Output			W	50		80		160		160	
Connections											
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)							
	Liquid Line		in. (mm)	1/4	(6.35)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line		in. (mm)	1/2	(12.70)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain				VP25							
	OD		in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID		in. (mm)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

Wall Mount Indoor Unit

Wall-mount indoor units include wide-angle louvers that distribute airflow comfortably. An auto-swing function ensures efficient air distribution and uniform temperature throughout the conditioned space. Drain piping can be connected at the right, left or rear of the unit for ease of installation.

Tonnage			0.5		0.7	
Wall Mount Indoor Unit - Model			TIWM006B21S		TIWM008B21S	
Power Supply			AC 1Phase, 208/230V, 60Hz			
Nominal Cooling Capacity *		Btu/h	6,000		8,000	
		(kW)	(1.8)		(2.3)	
Nominal Heating Capacity *		Btu/h	6,700		9,000	
		(kW)	(2.0)		(2.6)	
Sound Pressure Level (Overall A Scale)		dB	39-35-32-30		39-35-32-30	
Outer Dimensions	Height	in.(mm)	11-13/16	(300)	11-13/16	(300)
	Width	in.(mm)	31-3/32	(790)	31-3/32	(790)
	Depth	in.(mm)	9-1/16	(230)	9-1/16	(230)
Net Weight		lbs.(kg)	22	(10)	22	(10)
Refrigerant			R410A			
Indoor Fan	Air Flow Rate	cfm	353-282-247-229		353-282-247-229	
	(Hi2-Hi-Me-Lo)	(m^3/min)	(10-8-7-6.5)		(10-8-7-6.5)	
External Pressure		in.W.G	0.0		0.0	
		(Pa)	(0)		(0)	
Motor Nominal Output		W	38		38	
Connections						
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)			
	Liquid Line	in.(mm)	1/4	(6.35)	1/4	(6.35)
	Gas Line	in.(mm)	1/2	(12.70)	1/2	(12.70)
Condensate Drain			VP16		VP16	
	OD	in.(mm)	7/8	(22)	7/8	(22)
	ID	in.(mm)	5/8	(16)	5/8	(16)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)

Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)

Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

Wall Mount Indoor Unit *(continued)*

Key Features

- Removable front panel for easy cleaning.
- Optional wireless zone controller and built-in wireless sensor
- Optional condensate pump

Capacities: 6,000 to 24,000 Btu/hr

Tonnage			1.0		1.3		1.5		2.0	
Wall Mount Indoor Unit - Model			TIWM1012B21S		TIWM015B21S		TIWM018B21S		TIWM024B21S	
Power Supply			AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity *		Btu/h	12,000		15,000		18,000		24,000	
		(kW)	(3.5)		(4.4)		(5.3)		(7.0)	
Nominal Heating Capacity *		Btu/h	13,500		17,000		20,000		27,000	
		(kW)	(4.0)		(5.0)		(5.8)		(7.9)	
Sound Pressure Level (Overall A Scale)		dB	46-40-36-33		42-40-38-33		49-43-40-36		51-49-46-41	
Outer Dimensions	Height	in.(mm)	11-13/16	(300)	13-1/8	(333)	13-1/8	(333)	13-1/8	(333)
	Width	in.(mm)	35-7/16	(900)	45-9/32	(1150)	45-9/32	(1150)	45-9/32	(1150)
	Depth	in.(mm)	9-1/16	(230)	9-21/32	(245)	9-21/32	(245)	9-21/32	(245)
Net Weight		lbs.(kg)	24	(11)	37	(17)	40	(18)	40	(18)
Refrigerant			R410A							
Indoor Fan	Air Flow Rate (Hi2-Hi-Me-Lo)	cfm	494-388-318-265		530-494-459-353		671-600-494-424		777-671-600-530	
		(m^3/min)	(14-11-9-7.5)		(15-14-13-10)		(19-17-14-12)		(22-19-17-15)	
External Pressure		in.W.G	0.0		0.0		0.0		0.0	
		(Pa)	(0)		(0)		(0)		(0)	
Motor Nominal Output		W	38		38		38		38	
Connections										
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.(mm)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.(mm)	1/2	(12.70)	1/2	(12.70)	5/8	(15.88)	5/8	(15.88)
Condensate Drain			VP16		VP16		VP16		VP16	
	OD	in.(mm)	7/8	(22)	7/8	(22)	7/8	(22)	7/8	(22)
	ID	in.(mm)	5/8	(16)	5/8	(16)	5/8	(16)	5/8	(16)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

YORK VRF

Floor Concealed Indoor Unit

Floor-concealed indoor units are ideal for installation in areas such as the wall beneath windows in a hallway to provide complete comfort within a clean design.

Capacities 6,000 to 15,000 Btu/hr

Key Features

- Compact design for limited spaces
- Provides compatibility with interior designs
- Ideal for perimeter zone air conditioning

Tonnage				0.5		0.7		1.0		1.3	
Floor Concealed Indoor Unit – Model				YIFC006B21S		YIFC008B21S		YIFC012B21S		YIFC015B21S	
Indoor Unit Power Supply				AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity *		Btu / h	(kW)	6,000	(1.8)	8,000	(2.3)	12,000	(3.5)	15,000	(4.4)
Nominal Heating Capacity *		Btu / h	(kW)	6,700	(2.0)	9,000	(2.6)	13,500	(4.0)	17,000	(5.0)
Sound Pressure Level (Overall A Scale)		dB		39-33-29		39-33-29		43-35-32		48-43-36	
Outer Dimensions	Height	in.	(mm)	24-7/16	(620)	24-7/16	(620)	24-7/16	(620)	24-7/16	(620)
	Width	in.	(mm)	33-3/8	(848)	33-3/8	(848)	38-5/16	(973)	48-1/8	(1223)
	Depth	in.	(mm)	8-11/16	(220)	8-11/16	(220)	8-11/16	(220)	8-11/16	(220)
Net Weight		lbs.	(kg)	52	(24)	52	(24)	57	(26)	68	(31)
Refrigerant		–		R410A							
Indoor Fan	Air Flow Rate		cfm	300-247-212		300-247-212		424-353-318		565-494-388	
	(Hi-Me-Lo)		(m^3/min)	(8.5-7-6)		(8.5-7-6)		(12-10-9)		(16-14-11)	
External Pressure			in.W.G	0.0		0.0		0.0		0.0	
			(Pa)	(0)		(0)		(0)		(0)	
Motor Nominal Output			W	20		20		28		45	
Connections											
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.	(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)
	Gas Line	in.	(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)
Condensate Drain				VP25							
	OD	in.	(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.	(mm)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

Floor Exposed Indoor Unit

Floor-exposed indoor units have a slim-line design compatible with the style and beauty of the room.

Capacities 6,000 to 15,000 Btu/hr

Key Features

- 8.7-inch (220 mm) depth preserves room space
- 24.8-inch height leaves ample window space
- Ideal for perimeter zone air conditioning

Tonnage				0.5		0.7		1.0		1.3	
Floor Exposed Indoor Unit – Model				YIFE006B21S		YIFE008B21S		YIFE012B21S		YIFE015B21S	
Indoor Unit Power Supply				AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity *		Btu / h	(kW)	6,000	(1.8)	8,000	(2.3)	12,000	(3.5)	15,000	(4.4)
Nominal Heating Capacity *		Btu / h	(kW)	6,700	(2.0)	9,000	(2.6)	13,500	(4.0)	17,000	(5.0)
Sound Pressure Level (Overall A Scale)		dB		39-33-29		39-33-29		43-35-32		48-43-36	
Outer Dimensions	Height	in.	(mm)	24-13/16	(630)	24-13/16	(630)	24-13/16	(630)	24-13/16	(630)
	Width	in.	(mm)	41-1/8	(1045)	41-1/8	(1045)	46-1/16	(1170)	55-7/8	(1420)
	Depth	in.	(mm)	8-11/16	(220)	8-11/16	(220)	8-11/16	(220)	8-11/16	(220)
Net Weight		lbs.	(kg)	61	(28)	61	(28)	68	(31)	79	(36)
Refrigerant		–		R410A							
Indoor Fan	Air Flow Rate		cfm	300-247-212		300-247-212		424-353-318		565-494-388	
	(Hi-Me-Lo)		(m^3/min)	(8.5-7-6)		(8.5-7-6)		(12-10-9)		(16-14-11)	
External Pressure			in.W.G	0.0		0.0		0.0		0.0	
			(Pa)	(0)		(0)		(0)		(0)	
Motor Nominal Output			W	20		20		28		45	
Connections											
Refrigerant Piping				Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.	(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)
	Gas Line	in.	(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)
Condensate Drain				VP25							
	OD	in.	(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.	(mm)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

YORK VRF

Ducted High Static Indoor Unit

Features

- High-efficiency AC fan motor
- Multiple fan speed settings
- Up to .74 WG static pressure
- Bottom access for easy service and troubleshooting
- Built-in condensate pump

Capacities: 18,000 to 48,000 Btu/hr

Tonnage			1.5		2.0		2.5		3.0	
Ducted High Static Indoor Unit - Model			YIDH018B21S		YIDH024B21S		YIDH030B21S		YIDH036B21S	
Power Supply			AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity *		Btu/h	18,000		24,000		30,000		36,000	
		(kW)	(5.3)		(7.0)		(8.8)		(10.5)	
Nominal Heating Capacity *		Btu/h	20,000		27,000		34,000		40,000	
		(kW)	(5.9)		(7.9)		(10.0)		(11.7)	
Sound Pressure Level (Overall A Scale) (208/230V)		dB	38-29/44-37		39-30/42-34		39-30/42-34		43-34/46-37	
Outer Dimensions	Height	in.(mm)	10-5/8	(270)	13-25/32	(350)	13-25/32	(350)	13-25/32	(350)
	Width	in.(mm)	35-7/16	(900)	35-7/16	(900)	35-7/16	(900)	51-3/16	(1300)
	Depth	in.(mm)	28-11/32	(720)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)
Net Weight		lbs.(kg)	75	(34)	106	(48)	106	(48)	128	(58)
Refrigerant			R410A							
Indoor Fan	Air Flow Rate**	cfm	547-388		883-618		883-618		1190-830	
	(Hi-Lo)	(m^3/min)	(15.5-11)		(25-17.5)		(25-17.5)		(33.7-23.5)	
External Pressure (208/230V)**	High Pressure	in.W.G(Pa)	0.6/0.74	(150/185)	0.6/0.74	(150/185)	0.6/0.74	(150/185)	0.6/0.74	(150/185)
	Standard	in.W.G(Pa)	0.20/0.40	(50/100)	0.20/0.40	(50/100)	0.20/0.40	(50/100)	0.20/0.40	(50/100)
Motor Nominal Output		W	130		150		150		250	
Connections										
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain			VP25		VP25		VP25		VP25	
	OD	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.(mm)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature:	80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature:	95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature:	70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature:	47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

** Data values when a filter is not used.

Ducted High Static Indoor Unit

Tonnage			4.0		6.0		8.0	
Ducted High Static Indoor Unit - Model			YIDH048B21S		YIDH024B21S		YIDH030B21S	
Power Supply			AC 1Phase, 208/230V, 60Hz					
Nominal Cooling Capacity *		Btu/h	48,000		72,000		96,000	
		(kW)	(14.1)		(21.1)		(28.2)	
Nominal Heating Capacity *		Btu/h	54,000		81,000		108,000	
		(kW)	(15.8)		(23.8)		(31.7)	
Sound Pressure Level (Overall A Scale) (208/230V)		dB	44-35/47-40		47-43/50-47		51-46/54-50	
Outer Dimensions	Height	in.(mm)	13-25/32	(350)	18-3/8	(466)	18-3/8	(466)
	Width	in.(mm)	51-3/16	(1300)	49-3/16	(1250)	49-3/16	(1250)
	Depth	in.(mm)	31-1/2	(800)	44-1/8	(1120)	44-1/8	(1120)
Net Weight		lbs.(kg)	132	(60)	258	(117)	258	(117)
Refrigerant			R410A					
Indoor Fan	Air Flow Rate**	cfm	1236-890		2047-1765		2542-2189	
	(Hi-Lo)	(m^3/min)	(35-25.2)		(58.0-50.0)		(72.0-62.0)	
External Pressure (208/230V)**	High Pressure	in.W.G(Pa)	0.6/0.74	(150/185)	0.88/1.16	(220/290)	0.88/1.18	(220/295)
	Standard	in.W.G(Pa)	0.20/0.40	(50/100)	0.28/0.64	(70/160)	0.32/0.70	(80/175)
Motor Nominal Output		W	280		1100		1100	
Connections								
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)		Brazed		Brazed	
	Liquid Line	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.(mm)	5/8	(15.88)	3/4	(19.05)	7/8	(22.20)
Condensate Drain			VP25		VP25		VP25	
	OD	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.(mm)	31/32	(25)	31/32	(25)	31/32	(25)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

** Data values when a filter is not used.

YORK VRF

Ducted Medium Static Indoor Unit

Features

- High-efficiency DC fan motor
- Multiple fan speed settings
- Up to .32 WG static pressure
- Bottom access for easy service and troubleshooting
- Built-in condensate pump

Capacities: 6,000 to 48,000 Btu/hr

Tonnage			0.5		0.7		1.0		1.3		1.5	
Ducted Medium Static Indoor Unit - Model			YIDM006B21S		YIDM008B21S		YIDM012B21S		YIDM015B21S		YIDM018B21S	
Power Supply			AC 1Phase, 208/230V, 60Hz									
Nominal Cooling Capacity*		Btu/h	6,000		8,000		12,000		15,000		18,000	
		(kW)	(1.8)		(2.3)		(3.5)		(4.4)		(5.3)	
Nominal Heating Capacity *		Btu/h	6,700		9,000		13,500		17,000		20,000	
		(kW)	(2.0)		(2.6)		(4.0)		(5.0)		(5.9)	
Sound Pressure Level (Overall A Scale)		dB	34-32-29-26		34-32-29-26		38-36-34-30		39-36-33-28		42-40-37-29	
Outer Dimensions	Height	in.(mm)	10-5/8	(270)	10-5/8	(270)	10-5/8	(270)	10-5/8	(270)	10-5/8	(270)
	Width	in.(mm)	25-19/32	(650)	25-19/32	(650)	25-19/32	(650)	35-7/16	(900)	35-7/16	(900)
	Depth	in.(mm)	28-11/32	(720)	28-11/32	(720)	28-11/32	(720)	28-11/32	(720)	28-11/32	(720)
Net Weight		lbs.(kg)	53	(24)	53	(24)	53	(24)	66	(30)	66	(30)
Refrigerant			R410A									
Indoor Fan	Air Flow Rate**	cfm	318-282-240-205		318-282-240-205		424-388-353-282		512-459-406-335		671-600-530-388	
	(Hi2-Hi-Me-Lo)	(m^3/min)	(9-8-6.8-5.8)		(9-8-6.8-5.8)		(12-11-10-8)		(14.5-13-11.5-9.5)		(19-17-15-11)	
External Pressure** Std (Hi-Lo)		in.W.G	0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)	
		(Pa)	(50 (80-35))		(50 (80-35))		(50 (80-35))		(50 (80-35))		(50 (80-35))	
Motor Nominal Output		W	150		150		150		150		150	
Connections												
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)									
	Liquid Line	in.(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)
	Gas Line	in.(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	5/8	(15.88)
Condensate Drain			VP25		VP25		VP25		VP25		VP25	
	OD	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.(mm)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

**Data values when a filter is not used.

Ducted Medium Static Indoor Unit *(continued)*

Tonnage			2.0		2.5		3.0		4.0	
Ducted Medium Static Indoor Unit - Model			YIDM024B21S		YIDM030B21S		YIDM036B21S		YIDM048B21S	
Power Supply			AC 1Phase, 208/230V, 60Hz							
Nominal Cooling Capacity *		Btu/h	24,000		30,000		36,000		48,000	
		(kW)	(7.0)		(8.8)		(10.5)		(14.1)	
Nominal Heating Capacity *		Btu/h	27,000		34,000		40,000		54,000	
		(kW)	(7.9)		(10.0)		(11.7)		(15.8)	
Sound Pressure Level (Overall A Scale)		dB	38-35-33-29		42-39-36-32		44-41-39-33		46-44-40-34	
Outer Dimensions	Height	in.(mm)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)
	Width	in.(mm)	43-5/16	(1100)	43-5/16	(1100)	55-1/8	(1400)	55-1/8	(1400)
	Depth	in.(mm)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)
Net Weight		lbs.(kg)	93	(42)	93	(42)	108	(49)	108	(49)
Refrigerant			R410A							
Indoor Fan	Air Flow Rate**	cfm	883-812-741-600		1094-988-883-741		1253-1147-1041-830		1377-1236-1094-847	
	(Hi2-Hi-Me-Lo)	(m^3/min)	(25-23-21-17)		(31-28-25-21)		(35.5-32.5-29.5-23.5)		(39-35-31-24)	
External Pressure** Std (Hi-Lo)		in.W.G	0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)		0.2 (0.32-0.14)	
		(Pa)	(50 (80-35))		(50 (80-35))		(50 (80-35))		(50 (80-35))	
Motor Nominal Output		W	250		250		250		250	
Connections										
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)							
	Liquid Line	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line	in.(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain			VP25		VP25		VP25		VP25	
	OD	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.(mm)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB)
67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB)
43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

**Data values when a filter is not used.

YORK VRF

Ducted Slim Indoor Unit

Features

- High-efficiency DC fan motor
- Multiple fan speed settings
- Up to .20 WG static pressure
- Bottom access for easy service and troubleshooting
- Built-in condensate pump

Capacities: 6,000 to 18,000 Btu/hr

Tonnage			0.5		0.7		1.0		1.3		1.5	
Ducted High Static Indoor Unit - Model			YIDS006B21S		YIDS008B21S		YIDS012B21S		YIDS015B21S		YIDS018B21S	
Power Supply			AC 1Phase, 208/230V, 60Hz									
Nominal Cooling Capacity *		Btu/h	6,000		8,000		12,000		15,000		18,000	
		(kW)	(1.8)		(2.3)		(3.5)		(4.4)		(5.3)	
Nominal Heating Capacity *		Btu/h	6,700		9,000		13,500		17,000		20,000	
		(kW)	(2.0)		(2.6)		(4.0)		(5.0)		(5.9)	
Sound Pressure Level (Overall A Scale)		dB	32-30-29-27		32-30-29-27		34-33.5-33-32		36-35-33-32		40-38-36-34	
Outer Dimensions	Height	in.(mm)	7-9/16	(192)	7-9/16	(192)	7-9/16	(192)	7-9/16	(192)	7-9/16	(192)
	Width	in.(mm)	35-3/4	(908)	35-3/4	(908)	35-3/4	(908)	46-3/8	(1178)	46-3/8	(1178)
	Depth	in.(mm)	17-19/32	(447)	17-19/32	(447)	17-19/32	(447)	17-19/32	(447)	17-19/32	(447)
Net Weight		lbs.(kg)	44	(20)	44	(20)	46	(21)	57	(26)	57	(26)
Refrigerant			R410A									
Indoor Fan	Air Flow Rate**	cfm	318-289-244-205		318-289-244-205		346-318-300-268		512-477-441-381		582-530-494-424	
	(Hi2-Hi-Me-Lo)	(m^3/min)	(9-8-7-6)		(9-8-7-6)		(10-9-9-8)		(15-14-13-11)		(17-15-14-12)	
External Pressure** Std (Hi-Lo)		in.W.G	0.04 (0.12-0.00)		0.04 (0.12-0.00)		0.04 (0.12-0.00)		0.04 (0.20-0.00)		0.04 (0.20-0.00)	
		(Pa)	(10 (30-0))		(10 (30-0))		(10 (30-0))		(10 (50-0))		(10 (50-0))	
Motor Nominal Output		W	40		40		40		60		60	
Connections												
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)									
	Liquid Line	in.(mm)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	1/4	(6.35)	3/8	(9.52)
	Gas Line	in.(mm)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	1/2	(12.70)	5/8	(15.88)
Condensate Drain			VP25		VP25		VP25		VP25		VP25	
	OD	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.(mm)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)	31/32	(25)

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature:	80°F DB (26.7°C DB) 67°F WB (19.4°C WB)
Outdoor Air Inlet Temperature:	95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

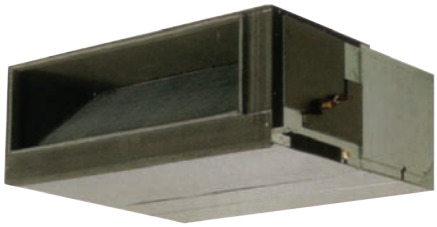
Indoor Air Inlet Temperature:	70°F DB (21.1°C DB)
Outdoor Air Inlet Temperature:	47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

**Data values when a filter is not used.

Dedicated Outside Air System (DOAS) Model

Introduce and condition fresh air into a VRF system with the Dedicated Outside Air System indoor unit to create a more comfortable and healthy indoor environment.



Dedicated Outside Air System
Capacity: 96,000 Btu/hr

Features

- 8 ton unit
- Pre-installed drain pump
- Nominal airflow of 1,236CFM
- High external static pressure up to 1.24WG (at 230V) enables design flexibility
- Seamlessly integrates with the VRF Heat Pump system controls and piping
- **Multiple control modes** for optimizing comfort and energy efficiency include:
  - Outlet Air Temperature Control,
  - Indoor Temperature Control,
  - Remote Sensor and/or
  - Sensor in Optional Wired Controller

Tonnage			**8.0**	
Dedicated Outside Air System (DOAS) Unit - Model			**YDOA096B21S**	
Power Supply			AC 1Phase, 208/230V, 60Hz	
Nominal Cooling Capacity *		Btu/h	96,000	
		(kW)	(28.2)	
Nominal Heating Capacity *		Btu/h	83,600	
		(kW)	(24.5)	
Sound Pressure Level (Overall A Scale)		dB	50/51	
Outer Dimensions	Height	in.(mm)	19-1/8	(486)
	Width	in.(mm)	50	(1270)
	Depth	in.(mm)	44-1/8	(1120)
Net Weight		lbs.(kg)	247	(112)
Refrigerant			R410A	
Indoor Fan	Air Flow Rate**	cfm	1236	
	(Hi2-Hi-Me-Lo)	(m^3/min)	(35.0)	
External Pressure (208/230V) **	High Pressure	in.W.G (Pa)	1.06/1.24 (265/310)	
	Standard	in.W.G (Pa)	–	
Motor Nominal Output		W	650 (Motor 2pcs)	
Connections				
Refrigerant Piping			Brazed	
	Liquid Line	in.(mm)	3/8	(9.52)
	Gas Line	in.(mm)	7/8	(22.20)
Condensate Drain			VP25	
	OD	in.(mm)	1-1/4	(32)
	ID	in.(mm)	31/32	(25)

NOTES:

* Nominal capacity is based on combination with VRF system and indoor temperature control. Testing conditions listed below:

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)

Outdoor Air Inlet Temperature: 91°F DB (33.0°C DB) 32°F DB (0°C DB)

Piping Length: 24.6ft (7.5m)
Piping Lift: 0ft. (0m)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 81°F DB (27.0°C DB)
Outdoor Air Inlet Temperature: 32°F DB (0°C DB) 27°F WB (-2.9°C WB)

** Data values when a filter is not used.

YORK VRF

EconoFresh

The exclusive EconoFresh unit is a combination of a ducted medium static unit paired with an Economizer Kit which contributes to energy savings to provide outside air/free-cooling, up to 100%, when the outside conditions are favorable. Unit seamlessly integrates with VRF system to contribute to energy savings and improve air quality.

Features

- Excellent for applications with cooling demand during mid seasons and winter.
- Inputs for optional CO_2 and enthalpy sensors are available for control based on indoor air quality or humidity.
- A remote control switch allows control of the outside air damper opening to ensure minimum outside airflow requirements are met.

The EconoFresh unit includes the Economizer Kit and a ducted medium static unit in your choice of 2.5-, 3.0- or 4.0-ton capacity.

Tonnage			2.5		3.0		4.0	
EconoFresh (Economizer Kit + a ducted medium static indoor unit) - Model			YIDM030B21E		YIDM036B21E		YIDM048B21E	
Power Supply			AC 1 Phase, 208/230V, 60Hz					
Nominal Cooling Capacity *		Btu/h	30,000		36,000		48,000	
		(kW)	(8.8)		(10.5)		(14.1)	
Nominal Heating Capacity *		Btu/h	34,000		40,000		54,000	
		(kW)	(10.0)		(11.7)		(15.8)	
Sound Pressure Level (Overall A Scale)		dB	38-35-32		39-35-33		40-36-33	
Outer Dimensions	Height	in.(mm)	10-7/8	(275)	10-7/8	(275)	10-7/8	(275)
	Width	in.(mm)	58-1/16	(1474)	58-1/16	(1474)	58-1/16	(1474)
	Depth	in.(mm)	23-5/8	(600)	23-5/8	(600)	23-5/8	(600)
Net Weight		lbs.(kg)	106	(48)	106	(48)	106	(48)
Refrigerant			R410A					
Indoor Fan	Air Flow Rate** (Hi2-Hi-Me-Lo)	cfm	1059-953-847		1236-1094-988		1271-1130-1024	
		(m^3/min)	(30-27-24)		(35-31-28)		(36-32-29)	
External Pressure** Std (Hi-Lo)		in.W.G	0.17-0.12-0.10		0.16-0.11-0.10		0.12-0.10-0.08	
		(Pa)	(43-30-25)		(40-28-25)		(30-25-20)	
Motor Nominal Output		W	250		250		250	
Connections								
Refrigerant Piping			Flare-Nut Connection (with Flare Nuts)					
	Liquid Line	in.(mm)	3/8	(9.52)	3/8	(9.52)		(9.52)
	Gas Line	in.(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain			VP25		VP25		VP25	
	OD	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
	ID	in.(mm)	31/32	(25)	31/32	(25)	31/32	(25)
Adaptable EconoFresh Kit Model			EF-456NE					
	Height	in. (mm)	10 (254)					
	Width	in. (mm)	55-1/2 (1410)					
	Depth	in. (mm)	12-3/16 (270)					
	Net Weight	lbs. (kg)	28 (12.5)					

NOTES:

* Nominal capacity condition is based on the following conditions. See www.ahrinet.org for more information.

COOLING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 80°F DB (26.7°C DB) 67°F WB (19.4°C WB)

Outdoor Air Inlet Temperature: 95°F DB (35.0°C DB)

HEATING OPERATION CONDITIONS

Indoor Air Inlet Temperature: 70°F DB (21.1°C DB)

Outdoor Air Inlet Temperature: 47°F DB (8.3°C DB) 43°F WB (6.1°C WB)

Piping Length: 24 ft. 7-3/16 in. (7.5m)
Piping Lift: 0ft. (0m)

** Data values when a filter is not used.

4-Position Air Handler*

Features

- **RC2** – Rigid Case Construction interior endoskeleton for structural support, flush side, and locks in insulation.
- P**owder-painted** – G30 galvanized steel case provide a coated edge that resists corrosion and rust creep.
- **MaxAlloy™ Coil** – Long life aluminum coils built to deliver lasting performance, efficiency and reliability.
- **Quality Construction** – Structural components are made of Aluminum or G90 galvanized steel to prevent corrosion.
- **Improved Insulation Design** – Single piece with no external screws to reduce thermal transmission paths to prevent sweating. Foil faced insulation for ease of cleaning.
- **Case Depth** – These models have 20.5" casing which provide ease of attic access and tight applications.
- **Thermoset Drain Pan** – Positive slope for drainage to reduce cause for potential mold or contaminants.
- **Factory Sealed** – Achieves 2% or less total airflow leakage rate at duct leakage test conditions in positive and negative pressure for system airflow verification.
- **Enhanced Filter Rack** – All models have integrated internal filter racks provided for use with 1" thick standard size filters.
- **Electric Heat Kits** – Field installed electric heat kits are available for installation-friendly and easy service applications.
- **Blowers** – All models use direct-drive, multi-speed motors.

4-Position Air Handler
1.5 ,2, 2.5, 3, 3.5, 4 and 5 Ton Capacities.

Fully field installed integrated DX kit.

** Available summer 2016.*

Outdoor Units

Reliable, quiet YORK VRF outdoor units are available in capacities to fit multiple applications and operate multiple indoor units.

Heat pump and heat recovery units provide flexibility of design for a variety of building spaces and ambient conditions. Units operate quietly with sound ratings as low as 55 dBA.

208/230V Heat Recovery
460V Heat Recovery
208/230V Heat Pump
460V Heat Pump
Mini VRF Single-Phase 208/230V

Summary Table of Outdoor Units

208/230V & 460V Heat Pump and Heat Recovery Units		Heat Recovery VRF	Heat Pump VRF
Capacity		6 to 30 Tons	6 to 30 Tons
Maximum connectable indoor unit quantity		64	64
Combination capacity ratio between OD and ID		60% to 150%	
Total piping length	ft (m)	3281 (1000)	3281 (1000)
Maximum piping length between OD and ID	ft (m)	541 (165)	541 (165)
Maximum equivalent piping length between OD and ID	ft (m)	623 (190)	623 (190)
Maximum piping length between 1st branch and ID	ft (m)	295 (90)	295 (90)
Maximum height difference between OD and ID (when OD is higher than ID)	ft (m)	164 (50)	295 (50)
Maximum height difference between OD and ID (when ID is higher than OD)	ft (m)	131 (40)	131 (40)
Maximum height difference between ID and ID	ft (m)	49 (15)	98 (30)
Cooling Operation Range*	F (C)	14 to 118 (-10 to 48)	14 to 118 (-10 to 48)
Heating Operation Range*	F (C)	-4 to 59 (-20 to 15)	-4 to 59 (-20 to 15)

* For more details and limitations, please consult YORK sales team or refer to product manuals

Mini VRF Technical Data		3 Ton	4 Ton	5 Ton
Performance	Rated Cooling Capacity (BTU/h)	36,000	48,000	59,000
	Rated Heating Capacity (BTU/h)	40,000	54,000	64,000
	Operating Range* – Cooling (°F)	23 to 118		
	Operating Range* – Heating (°F)	-4 to 59		
	Power Supply (V/ph/Hz)	208-230 / 1 / 60		
Configurations	Number Of Indoor Units	1 to 6	1 to 8	1 to 8
Refrigerant Piping	Maximum Piping Length (ft)	492		
	Maximum Total Piping Length (ft)	984		
	Maximum Vertical Distance, IU to OU – OU above IU / OU below IU (ft)	164 / 49		
	Maximum Vertical Distance Between Indoor Units (ft)	49		
Size	Dimensions – H x W x D (")	54.3 x 37.4 x 14.5		

* For more details and limitations, please consult YORK sales team or refer to product manuals

YORK VRF

Outdoor Units Overview

YORK VRF outdoor units provide maximum flexibility for modular design.




208/230V HR (HEAT RECOVERY) MODELS

6-10 Ton Systems

6 Ton YVAHR072B31S
8 Ton YVAHR096B31S
10 Ton YVAHR120B31S

12-16 Ton Systems

12 Ton YVAHR144B31S
14 Ton YVAHR168B31S
16 Ton YVAHR192B31S
20 Ton YVAHR240B31LM

18-26 Ton Systems

18 Ton YVAHR216B31S
20 Ton YVAHR240B31S*
22 Ton YVAHR264B31S
24 Ton YVAHR288B31S
26 Ton YVAHR312B31S
28 Ton YVAHR336B31LM
30 Ton YVAHR360B31LM

28-30 Ton Systems

28 Ton YVAHR336B31S*
30 Ton YVAHR360B31S*

460V HR (HEAT RECOVERY) MODELS

6-10 Ton Systems

6 Ton YVAHR072B41S
8 Ton YVAHR096B41S
10 Ton YVAHR120B41S

12-16 Ton Systems

12 Ton YVAHR144B41S
14 Ton YVAHR168B41S
16 Ton YVAHR192B41S
20 Ton YVAHR240B41LM

18-26 Ton Systems

18 Ton YVAHR216B41S
20 Ton YVAHR240B41S*
22 Ton YVAHR264B41S
24 Ton YVAHR288B41S
26 Ton YVAHR312B41S
28 Ton YVAHR336B41LM
30 Ton YVAHP360B31LM

28-30 Ton Systems

28 Ton YVAHR336B41S*
30 Ton YVAHR360B41S*

208/230V HP (HEAT PUMP) MODELS

6-10 Ton Systems

6 Ton YVAHP072B31S
8 Ton YVAHP096B31S
10 Ton YVAHP120B31S

12-16 Ton Systems

12Ton YVAHP144B31S
14Ton YVAHP168B31S
16Ton YVAHP192B31S
20 Ton YVAHP240B31LM

18-26 Ton Systems

18 Ton YVAHP216B31S
20 Ton YVAHP240B31S*
22 Ton YVAHP264B31S
24 Ton YVAHP288B31S
26 Ton YVAHP312B31S
28 Ton YVAHP336B31LM
30 Ton YVAHP360B31LM

28-30 Ton Systems

28 Ton YVAHP336B31S*
30 Ton YVAHP360B31S*

460V HP (HEAT PUMP) MODELS

6-10 Ton Systems

6 Ton YVAHP072B41S
8 Ton YVAHP096B41S
10 Ton YVAHP120B41S

12-16 Ton Systems

12 Ton YVAHP144B41S
14 Ton YVAHP168B41S
16 Ton YVAHP192B41S
20 Ton YVAHP240B41LM

18-26 Ton Systems

18 Ton YVAHP216B41S
20 Ton YVAHP240B41S*
22 Ton YVAHP264B41S
24 Ton YVAHP288B41S
26 Ton YVAHP312B41S
28 Ton YVAHP336B41LM
30 Ton YVAHP360B41LM

28-30 Ton Systems

28 Ton YVAHP336B41S*
30 Ton YVAHP360B41S*

MINI VRF 208/230V HP (HEAT PUMP) MODELS

Mini VRF 3 Ton Unit

YVAHP036B21S

Mini VRF 4 Ton Unit

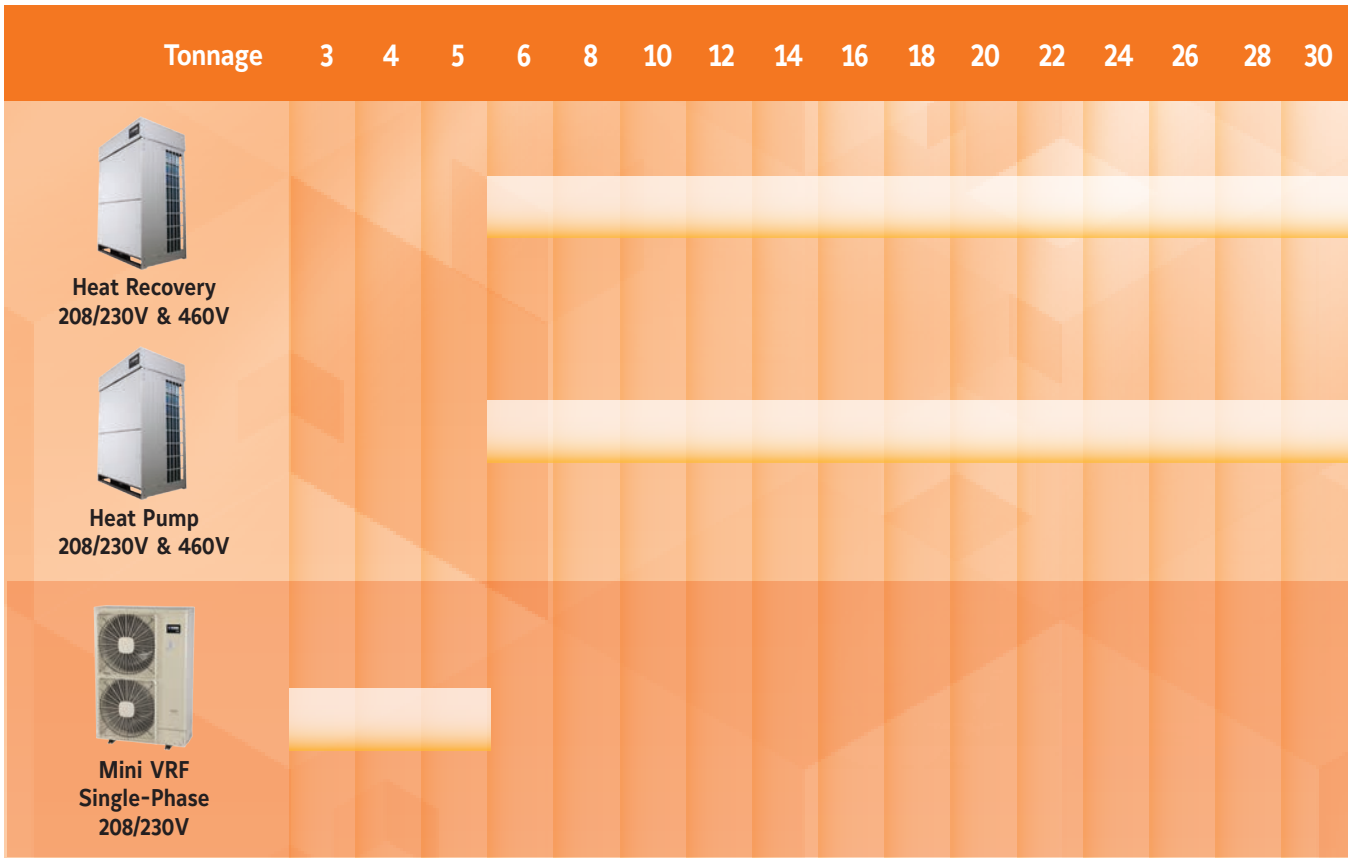
YVAHP048B21S

Mini VRF 5 Ton Unit

YVAHP060B21S

** High efficiency configurations.*

YORK VRF Outdoor Units



YORK® VRF Outdoor Units

YORK VRF outdoor units, in capacities from 3.0 to 30 tons with modular system combinations, include heat pump and heat recovery units.

Heat pump units can either heat or cool spaces. YORK VRF heat pump units offer an extended operating temperature range: outdoor ambient temperature as low as 14°F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

Heat recovery units can heat and cool spaces simultaneously. YORK VRF heat recovery units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

YORK Mini VRF Heat Pump units offer an outdoor ambient temperature as low as 23°F (-5°C) in the cooling mode and as low as -4°F (-20°C) in the heating mode.

All outdoor units feature:

- **Long refrigerant piping lengths** – up to 3,281 feet total pipe run
- **Advanced defrost cycle operation** in the heating mode
- **Able to operate up to 64 indoor units** on a single piping network
- **Power-saving demand control** for reduced peak load and energy savings
- **Automatic judgement system for Refrigerant Amount** to verify refrigerant charge is correct
- **Diagnostics and malfunction codes** available at push of a control panel button

Mini VRF Outdoor Unit
SINGLE-PHASE 208/230V HP

Exceptionally efficient YORK Mini VRF systems provide design versatility and flexibility and quiet personalized comfort. The single-phase (208-230V) 3-, 4- and 5-ton heat pump system with inverter compressor technology provides cooling up to 118°F and heating down to -4°F ambient. Multiple indoor unit options enable individual comfort control of up to eight rooms/zones.

SIngle Phase 3-, 4- and 5-Ton Heat Pump Systems

Mini VRF Outdoor Unit 208/230V HP | 3-, 4-& 5-TON SYSTEMS

3, 4 &5 Ton Systems	Type				Mini VRF Outdoor Units					
	Tonnage				3 Ton		4 Ton		5 Ton	
Model					YVAHP036B21S		YVAHP048B21S		YVAHP060B21S	
Power Supply					208/230V/ 1PH 60Hz		208/230V/ 1PH 60Hz		208/230V/ 1PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	36,000	(10.6)	48,000	(14.1)	60,000	(17.6)
		Power input	kW		2.50		3.80		5.00	
		Current input	A		12.3 / 11.1		18.6 / 16.9		24.8 / 22.4	
	Heating	Capacity (Nominal)	Btu/Wh		40,000	11.7	54,000	15.8	66,000	19.3
		Power input	kW		2.40		4.00		4.40	
		Current input	A		11.8 / 10.6		19.6 / 17.7		21.7 / 19.6	
Efficiency Ratings *	Cooling *(for Non-ducted and Ducted)*	Capacity (Rated)	Btu/h		36,000	36,000	48,000	48,000	60,000	55,000
		EER	Btu/Wh		16.20	13.60	15.60	13.00	11.90	9.55
		SEER	Btu/Wh		22.00	18.30	22.00	18.00	16.00	15.60
	Heating *(for Non-ducted and Ducted)*	Rated Capacity	Btu/h		40,000	40,000	54,000	54,000	64,000	64,000
		COP	W/W		5.12 / 3.90		4.56 / 3.86		3.90 / 3.30	
		HSPF	Btu/Wh		11.90	11.00	11.70	11.80	12.10	10.60
Cooling Operating Range**		Indoor	°F WB (°C WB)		59 (15) ~ 73 (23)		59 (15) ~ 73 (23)		59 (15) ~ 73 (23	
		Outdoor	°F DB (°C DB)		23 (-5) ~ 118 (48)		23 (-5) ~ 118 (48)		23 (-5) ~ 118 (48)	
Heating Operating Range**		Indoor	°F DB (°C DB)		59 (15) ~ 80 (27)		59 (15) ~ 80 (27)		59 (15) ~ 80 (27)	
		Outdoor	°F WB (°C WB)		-4 (-20) ~ 59 (15)		-4 (-20) ~ 59 (15)		-4 (-20) ~ 59 (15)	
Cabinet Color (Munsell Code)			–		1.0Y8.5/0.5					
Outer Dimensions	Height		in	(mm)	54-5/16	(1380)	54-5/16	(1380)	54-5/16	(1380)
	Width		in	(mm)	37-3/8	(950)	37-3/8	(950)	37-3/8	(950)
	Depth		in	(mm)	14-9/16	(370)	14-9/16	(370)	14-9/16	(370)
Package Dimensions	Height		in	(mm)	59-9/16	(1513)	59-9/16	(1513)	59-9/16	(1513)
	Width		in	(mm)	40-3/8	(1025)	40-3/8	(1025)	40-3/8	(1025)
	Depth		in	(mm)	18-1/8	(460)	18-1/8	(460)	18-1/8	(460)
Weight	Net		lbs	(kg)	249	(113)	249	(113)	249	(113)
	Gross		lbs	(kg)	267	(121)	267	(121)	267	(121)
Connection Ratio	Total Indoor Unit Capacity		%		130-60		130-60		105-60	
	Max. (Recommendation) indoor units/system		–		6		8		8	
Heat Exchanger	Type		–		Multi-Pass Cross-Finned Tube					
	Material		–		Cu-Al (Anti-corrosion)					
Compressor	Type		–		HA36PHD-A1S2		HA36PHD-A1S2		A36PHD-A1S2	
	Motor Output (Pole)		– / –		3PH / 6		3PH / 6		3PH / 6	
	Start Method		-		Inverter					
	Operation Range		%		10 ~ 100		10 ~ 100		10 ~ 100	
	Refrigeration Oil Type		–		FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		52W(208V) ×1		52W(208V) ×1		52W(208V) ×1	
Fan	Type		–		Propeller Fan		Propeller Fan		Propeller Fan	
	Motor Output (Pole)		W (Pole)		58(10) + 58(10)		58(10) + 58(10)		58(10) + 58(10)	
	Quantity		Q'ty		2					
	Air Flow Rate		cfm	(m^3/min)	3177	(90)	3530	(100)	3530	(100)
	Drive		-		Direct drive					
Electrical	Min Circuit Amps		A		31		31		31	
	Max. Overcurrent Protective Device		A		40					
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		51	(44)	52	(46)	53	(46)
	Heating		dB(A)		52		54		56	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)					
	Compressor		-		Over-current protection Over-heat protection Circuit Breaker (30A)					
	Fan Motor		-		Over-current protection Over-heat protection Self-contained fuse (5A)					
	PCB (Control Circuit)		-		Fuse on PCB(5A)					
Refrigerant	Type		-		R410A					
	Charge amount		lbs	(kg)	7.9	(3.6)	7.9	(3.6)	7.9	(3.6)
Refrigeration Oil	Charge amount		gal/Unit	(kg/Unit)	0.34	(1.3)	0.34	(1.3)	0.34	(1.3)
Defrost Method			-		Reversed Refrigerant Cycle					
Main Refrigerant Piping	Gas Line		in	(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
	Liquid Line		in	(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)

NOTES:

* Efficiency ratings are based on the AHRI 210/240 test standard.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.

Outdoor Unit
208/230V HR (HEAT RECOVERY)

Heat recovery units can heat and cool spaces simultaneously. YORK VRF heat recovery units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

6-10 Ton Systems

Outdoor Unit 208/230V HR | 6-10 TON SYSTEMS

6-10 Ton Systems	Type				Single Unit Systems					
	Tonnage				6 Ton		8 Ton		10 Ton	
Model					YVAHR072B31S		YVAHR096B31S		YVAHR120B31S	
Power Supply					208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	72,000	(21.1)	96,000	(28.1)	120,000	(35.2)
		Power input	kW		6.08		7.61		10.57	
		Current input	A (208V/230V)		18.3/16.6		23.0/20.8		33.0/31.6	
	Heating	Capacity (Nominal)	Btu/h	(kW)	81,000	(23.7)	108,000	(31.7)	135,000	(39.6)
		Power input	kW		5.93		7.33		9.73	
		Current input	A (208V/230V)		17.9/16.2		23.1/22.2		30.3/28.7	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	69,000	(20.2)	92,000	(27.0)	114,000	(33.4)
		EER	Btu/Wh	(W/W)	15.60	(4.58)	13.70	(4.02)	11.60	(3.40)
		IEER	Btu/Wh	(Wh/Wh)	25.20	(7.39)	21.80	(6.39)	20.80	(6.10)
	Heating High	Capacity (Rated)	Btu/h	(kW)	76,000	(22.3)	103,000	(30.2)	129,000	(37.8)
		COP	W/W		4.21		4.01		3.74	
	Heating Low	Capacity	Btu/h	(kW)	55,000	(16.1)	76,000	(22.3)	89,000	(26.1)
		COP	W/W		2.60		2.43		2.36	
	Heat Recovery	SCHE	W/W		23.30		27.10		26.80	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)					2.5Y 8/2					
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width		in	(mm)	37-7/8	(962)	48-1/8	(1222)	48-1/8	(1222)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	74-1/4	(1886)	74-1/4	(1886)	74-1/4	(1886)
	Width		in	(mm)	40-5/8	(1032)	50-7/8	(1292)	50-7/8	(1292)
	Depth		in	(mm)	34-1/32	(864)	34-1/32	(864)	34-1/32	(864)
Weight	Net		lbs	(kg)	540	(245)	730	(331)	732	(332)
	Gross		lbs	(kg)	587	(266)	787	(357)	789	(358)
Connection Ratio	Total Indoor Unit Capacity		%		150 - 70		135 - 65		130 - 60	
	Max. (Recommendation) indoor units/ system		-		18 (10)		21 (16)		25 (16)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube					
	Material		-		Cu-Al (Anti-corrosion)					
Compressor	Type		Inverter		DA65PHD×1		DA65PHD×1		DA65PHD×1	
			Fixed Speed		-		E655DH×1		E655DH×1	
	Motor Output (Pole)		kW (Pole)		7.2(6)		4.8(6)+4.4(2)		6.0(6)+4.4(2)	
	Start Method		-		Inverter					
	Operation Range		%		20 ~ 100		16 ~ 100		15 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V) ×2		40.8 (230V) ×2		40.8 (230V) ×2	
Fan	Type		-		Propeller Fan					
	Motor Output (Pole)		kW (Pole)		0.49(8)		0.66(8)		0.91(8)	
	Quantity		Q'ty		1					
	Air Flow Rate		cfm	(m^3/min)	6178	(175)	6884	(195)	7413	(210)
	External static pressure ***		in.WG	(Pa)	0 (0)					
	Drive				'Direct drive		'Direct drive		'Direct drive	
Electrical	Min Circuit Amps		A		45/40		55/50		64/58	
	Recommended Fuse/Breaker Size		A		60/60		70/70		90/80	
	Maximum Fuse Size		A		70/70		80/70		90/80	
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		60	(55)	62	(57)	64	(57)
	Heating		dB(A)		60		62		64	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)					
	Inverter		-		Over-current protection / Over-heat protection					
	Compressor		-		Over-heat protection					
	PCB		-		Over-current protection					
Refrigerant	Type-Qty		-		R410A					
	Charge amount		lbs	(kg)	16.1	(7.3)	18.7	(8.5)	20.9	(9.5)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	1.6	(6.0)	2.1	(7.9)	2.1	(7.9)
Defrost Method			-		Reversed Refrigerant Cycle					
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)	1-1/8	(28.58)	1-1/8	(28.58)	1-1/8	(28.58)
	High/Low Pressure Gas Line		in	(mm)	7/8	(22.2)	7/8	(22.2)	7/8	(22.2)
	Liquid Line		in	(mm)	1/2	(12.7)	1/2	(12.7)	1/2	(12.7)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** External static pressure can be changed via DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
208/230V HR (HEAT RECOVERY)

Heat recovery units can heat and cool spaces simultaneously. YORK VRF heat recovery units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

12-20 Ton Systems

Outdoor Unit 208/230V HR | 12-20 TON SYSTEMS

12-20 Ton Systems	Type				Twin Unit Systems			
	Tonnage				12 Ton (6+6)	14 Ton (8+6)	16 Ton (8+8)	20 Ton (10+10)
Model (combination)					YVAHR144B31S	YVAHR168B31S	YVAHR192B31S	YVAHP240B31LM
Model (individual)	Unit A				YVAHR072B31S	YVAHR096B31S	YVAHR096B31S	YVAHP120B31S
	Unit B				YVAHR072B31S	YVAHR072B31S	YVAHR096B31S	YVAHP120B31S
Power Supply					208/230V/ 3PH 60Hz	208/230V/ 3PH 60Hz	208/230V/ 3PH 60Hz	208/230V/ 3PH 60Hz
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	144,000 (42.2)	168,000 (49.2)	192,000 (56.3)	240,000 (70.3)
		Power input	kW		12.16	13.69	15.22	21.14
		Current input	A (208V/230V)		36.6/ 33.2	41.3/ 37.4	46.0/ 41.6	66.0/63.2
	Heating	Capacity (Nominal)	Btu/h	(kW)	162,000 (47.5)	189,000 (55.4)	216,000 (63.3)	270,000 (79.1)
		Power input	kW		11.86	13.26	14.66	19.46
		Current input	A (208V/230V)		35.8/32.4	41.0/38.4	46.2/44.4	60.6/57.4
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	138,000 (40.5)	160,000 (46.9)	182,000 (53.4)	228,000 (66.9)
		EER	Btu/Wh	(W/W)	14.50 (4.25)	11.40 (3.34)	10.60 (3.11)	11.10 (3.26)
		IEER	Btu/Wh	(Wh/Wh)	24.20 (7.10)	19.70 (5.78)	19.10 (5.60)	17.70 (5.19)
	Heating High	Capacity (Rated)	Btu/h	(kW)	154,000 (45.2)	178,000 (52.2)	204,000 (59.8)	258,000 (75.7)
		COP	W/W		4.11	3.69	3.64	3.53
	Heating Low	Capacity	Btu/h	(kW)	109,000 (32.0)	129,000 (37.8)	150,000 (44.0)	182,000 (53.4)
		COP	W/W		2.78	2.27	2.34	2.15
	Heat Recovery	SCHE	W/W		29.50	26.80	27.80	24.10
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)	59(15) ~ 73(23)	59(15) ~ 73(23)	59(15) ~ 73(23)
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)	14(-10) ~ 118(48)	14(-10) ~ 118(48)	14(-10) ~ 118(48) *3
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)	59(15) ~ 80(27)	59(15) ~ 80(27)	59(15) ~ 80(27)
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)	-4(-20) ~ 59(15)	-4(-20) ~ 59(15)	-4(-20) ~ 59(15) *4
Cabinet Color (Munsell Code)					2.5Y 8/2			
Outer Dimensions	Height		in	(mm)	68-1/8 (1730)	68-1/8 (1730)	68-1/8 (1730)	68-1/8 (1730)
	Width***		in	(mm)	76-5/32 (1934)	86-3/8 (2194)	96-5/8 (2454)	96-5/8 (2454)
	Depth		in	(mm)	31-7/32 (793)	31-7/32 (793)	31-7/32 (793)	31-7/32 (793)
Package Dimensions	Height		in	(mm)	Reference: YVAHR072B31S YVAHR072B31S	Reference: YVAHR096B31S YVAHR072B31S	Reference: YVAHR096B31S YVAHR096B31S	Reference: YVAHP120B31S YVAHP120B31S
	Width		in	(mm)				
	Depth		in	(mm)				
Weight	Net		lbs	(kg)	1080 (490)	1270 (576)	1460 (662)	1464 (664)
	Gross		lbs	(kg)	1173 (532)	1374 (623)	1574 (714)	1578 (716)
Connection Ratio	Total Indoor Unit Capacity		%		150 ~ 75	140 ~ 65	135 ~ 65	120 ~ 60
	Max. (Recommendation) indoor units/system		-		36 (26)	39 (32)	43 (32)	48 (32)
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube			
	Material		-		Cu-Al (Anti-corrosion)			
Compressor	Type		Inverter		DA65PHD×2	DA65PHD×2	DA65PHD×2	DA65PHD×2
			Fixed Speed		-	E655DH×1	E655DH×2	E655DH×2
	Motor Output (Pole)		kW (Pole)		7.26(6) 7.26(6)	4.8(6)+4.4(2) 7.26(6)	4.8(6)+4.4(2) 4.8(6)+4.4(2)	6.0(6)+4.4(2) 6.0(6)+4.4(2)
	Start Method		-		Inverter			
	Operation Range		%		10 ~ 100	9 ~ 100	8 ~ 100	8 ~ 100
	Refrigeration Oil Type		-		FVC68D	FVC68D	FVC68D	FVC68D
Crank Case Heater			W×Q'ty		40.8 (230V) ×4	40.8 (230V) ×6	40.8 (230V) ×8	40.8 (230V) ×8
Fan	Type		-		Propeller Fan			
	Motor Output (Pole)		kW (Pole)		0.49(8) x2	0.66(8)+0.49(8)	0.66(8)×2	0.91(8)×2
	Quantity		Q'ty		2			
	Air Flow Rate		cfm	(m^3/min)	6178+6178 (175+175)	6884+6178 (195+175)	6884+6884 (195+195)	7413+7413 (210+210)
	External static pressure ****		in.WG	(Pa)	0 (0)			0 (0) *6
	Drive				Direct drive			
Electrical	Min Circuit Amps		A		Reference: YVAHR072B31S YVAHR072B31S	Reference: YVAHR096B31S YVAHR072B31S	Reference: YVAHR096B31S YVAHR096B31S	Reference: YVAHP120B31S YVAHP120B31S
	Recommended Fuse/Breaker Size		A					
	Maximum Fuse Size		A					
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		63 (58)	65 (60)	65 (60)	66 (60)
	Heating		dB(A)		63	65	65	66
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa) Over-current protection / Over-heat protection			
	Inverter		-					
	Compressor		-		Over-heat protection			
	PCB		-		Over-current protection			
Refrigerant	Type-Qty		-		R410A			
	Charge amount		lbs	(kg)	16.1+16.1 (7.3+7.3)	18.7+16.1 (8.5+7.3)	18.7+18.7 (8.5+8.5)	20.9+20.9 (9.5+9.5)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	1.6+1.6 (6.0+6.0)	2.1+1.6 (7.9+6.0)	2.1+2.1 (7.9+7.9)	2.1+2.1 (7.9+7.9)
Defrost Method			-		Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)	1-1/8 (28.58)	1-3/8 (34.93)	1-3/8 (34.93)	1-3/8 (34.93)
	High/Low Pressure Gas Line		in	(mm)	7/8 (22.2)	1-1/8 (28.58)	1-1/8 (28.58)	1-3/8 (34.93)
	Liquid Line		in	(mm)	5/8 (15.88)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
208/230V HR (HEAT RECOVERY)

Heat recovery units can heat and cool spaces simultaneously. YORK VRF heat recovery units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

Outdoor Unit 208/230V HR | 18-30 TON SYSTEMS

High Efficiency Configuration

18-30 Ton Systems	Type				Triple Unit Systems			
	Tonnage				18 Ton (6+6+6)		20 Ton (8+6+6)	
Model (combination)					YVAHR216B31S		YVAHR240B31S	
Model (individual)	Unit A				YVAHR072B31S		YVAHR096B31S	
	Unit B				YVAHR072B31S		YVAHR072B31S	
	Unit C				YVAHR072B31S		YVAHR072B31S	
Power Supply					208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	216,000	(63.3)	240,000	(70.3)
		Power input	kW		18.24		19.77	
		Current input	A (208V/230V)		54.9 / 49.8		59.6 / 54.0	
	Heating	Capacity (Nominal)	Btu/h	(kW)	243,000	(71.2)	270,000	(79.1)
		Power input	kW		17.79		19.19	
		Current input	A (208V/230V)		53.7 / 48.6		58.9 / 54.6	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	206,000	(60.4)	228,000	(66.9)
		EER	Btu/Wh	(W/W)	10.60	(3.11)	10.60	(3.11)
		IEER	Btu/Wh	(Wh/Wh)	19.20	(5.63)	20.30	(5.95)
	Heating High	Capacity (Rated)	Btu/h	(kW)	232,000	(68.1)	258,000	(75.7)
		COP	W/W		3.49		3.80	
	Heating Low	Capacity	Btu/h	(kW)	164,000	(48.1)	182,000	(53.4)
		COP	W/W		2.34		2.42	
	Heat Recovery	SCHE	W/W		25.90		27.80	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)					2.5Y 8/2			
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	114-13/32	(2906)	124-21/32	(3166)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHR072B31S YVAHR072B31S YVAHR072B31S		Reference: YVAHR096B31S YVAHR072B31S YVAHR072B31S	
	Width		in	(mm)				
	Depth		in	(mm)				
Weight	Net		lbs	(kg)	1621	(735)	1810	(821)
	Gross		lbs	(kg)	1760	(798)	1960	(889)
Connection Ratio	Total Indoor Unit Capacity		%		150 - 70		150 - 70	
	Max. (Recommendation) indoor units/ system		-		54 (32)		60 (38)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube			
	Material		-		Cu-Al (Anti-corrosion)			
Compressor	Type		Inverter		DA65PHD×3		DA65PHD×3	
			Fixed Speed		–		E655DH×1	
	Motor Output (Pole)		kW (Pole)		7.26(6) 7.26(6) 7.26(6)		4.8(6)+4.4(2) 7.26(6) 7.26(6)	
	Start Method		-		Inverter			
	Operation Range		%		7 ~ 100		6 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V) ×6		40.8 (230V) ×8	
Fan	Type		-		Propeller Fan		Propeller Fan	
	Motor Output (Pole)		kW (Pole)		0.49(8)×3		0.66(8)+0.49(8)×2	
	Quantity		Q'ty		3		3	
	Air Flow Rate		cfm	(m^3/min)	6178+6178 +6178	175+175 +175	6884+6178 +6178	195+175 +175
	External static pressure****		in.WG	(Pa)	0 (0)			
	Drive				Direct drive			
Electrical	Min Circuit Amps		A		Reference: YVAHR072B31S YVAHR072B31S YVAHR072B31S		Reference: YVAHR096B31S YVAHR072B31S YVAHR072B31S	
	Recommended Fuse/Breaker Size		A					
	Maximum Fuse Size		A					
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		65	(60)	66	(61)
	Heating		dB(A)		65		66	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)			
	Inverter		-		Over-current protection / Over-heat protection			
	Compressor		-		Over-heat protection			
	PCB		-		Over-current protection			
Refrigerant	Type-Qty		-		R410A			
	Charge amount		lbs	(kg)	16.1+16.1 +16.1	(7.3+7.3+7.3)	18.7+16.1+16.1	(8.5+7.3 +7.3)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	1.6+1.6 +1.6	(6.0+6.0 +6.0)	2.1+1.6 +1.6	(7.9+6.0 +6.0)
Defrost Method			-		Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)	1-3/8	(34.93)	1-5/8	(41.28)
	High/Low Pressure Gas Line		in	(mm)	1-1/8	(28.58)	1-3/8	(34.93
	Liquid Line		in	(mm)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

YORK VRF

Outdoor Unit 208/230V HR | 18-26 TON SYSTEMS *(continued)*

18-26 Ton Systems	Type				Triple Unit Systems					
	Tonnage				22 Ton (10+6+6)		24 Ton (10+8+6)		26 Ton (10+10+6)	
Model (combination)					YVAHR264B31S		YVAHR288B31S		YVAHR312B31S	
Model (individual)	Unit A				YVAHR120B31S		YVAHR120B31S		YVAHR120B31S	
	Unit B				YVAHR072B31S		YVAHR096B31S		YVAHR120B31S	
	Unit C				YVAHR072B31S		YVAHR072B31S		YVAHR072B31S	
Power Supply					208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	264,000	(77.4)	288,000	(84.4)	312,000	(91.4)
		Power input	kW		22.73		24.26		27.22	
		Current input	A (208V/230V)		69.6 / 64.8		74.3 / 69.0		84.3 / 79.8	
	Heating	Capacity (Nominal)	Btu/h	(kW)	297,000	(87.0)	324,000	(95.0)	351,000	(102.9)
		Power input	kW		21.59		22.99		25.39	
		Current input	A (208V/230V)		66.1 /61.1		71.3 /67.1		78.5 / 73.6	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	252,000	(73.9)	274,000	(80.4)	296,000	(86.8)
		EER	Btu/Wh	(W/W)	10.30	(3.02)	10.00	(2.93)	9.60	(2.82)
		IEER	Btu/Wh	(Wh/Wh)	18.80	(5.51)	18.60	(5.46)	18.80	(5.51)
	Heating High	Capacity (Rated)	Btu/h	(kW)	280,000	(82.1)	308,000	(90.3)	334,000	(98.0)
		COP	W/W		3.61		3.70		3.56	
	Heating Low	Capacity	Btu/h	(kW)	200,000	(58.7)	216,000	(63.4)	236,000	(69.2)
		COP	W/W		2.37		2.42		2.37	
	Heat Recovery	SCHE	W/W		27.00		25.20		26.00	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)					2.5Y 8/2					
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	124-21/32	(3166)	134-7/8	(3426)	134-7/8	(3426)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHR120B31S		Reference: YVAHR120B31S		Reference: YVAHR120B31S	
	Width		in	(mm)	YVAHR072B31S		YVAHR096B31S		YVAHR120B31S	
	Depth		in	(mm)	YVAHR072B31S		YVAHR072B31S		YVAHR072B31S	
Weight	Net		lbs	(kg)	1813	(822)	2002	(908)	2004	(909)
	Gross		lbs	(kg)	1962	(890)	2163	(981)	2165	(982)
Connection Ratio	Total Indoor Unit Capacity		%		140 ~ 65		135 ~ 65		130 ~ 65	
	Max. (Recommendation) indoor units/system		-		61 (38)		64 (38)		64 (38)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube					
	Material		-		Cu-Al (Anti-corrosion)					
Compressor	Type		Inverter		DA65PHD×3		DA65PHD×3		DA65PHD×3	
			Fixed Speed		E655DH×1		E655DH×2		E655DH×2	
	Motor Output (Pole)		kW (Pole)		6.0(6)+4.4(2) 7.26(6) 7.26(6)		6.0(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6)		6.0(6)+4.4(2) 6.0(6)+4.4(2) 7.26(6)	
	Start Method		-		Inverter					
	Operation Range		%		6 ~ 100		6 ~ 100		6 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V) ×8		40.8 (230V) ×10		40.8 (230V) ×10	
Fan	Type		-		Propeller Fan					
	Motor Output (Pole)		kW (Pole)		0.91(8)+0.49(8)×2		0.91(8)+0.66(8)+0.49(8)		0.91(8)×2+0.49(8)	
	Quantity		Q'ty		3		3		3	
	Air Flow Rate		cfm	(m^3/min)	7413+6178 +6178	(210+175 +175)	7413+6884 +6178	(210+195 +175)	7413+7413 +6178	(210+210 +175)
	External static pressure****		in.WG	(Pa)	0 (0)					
	Drive				Direct drive					
Electrical	Min Circuit Amps		A		Reference: YVAHR120B31S		Reference: YVAHR120B31S		Reference: YVAHR120B31S	
	Recommended Fuse/Breaker Size		A		YVAHR072B31S		YVAHR096B31S		YVAHR120B31S	
	Maximum Fuse Size		A		YVAHR072B31S		YVAHR072B31S		YVAHR072B31S	
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		67	(61)	67	(62)	68	(62)
	Heating		dB(A)		67		67		68	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)					
	Inverter		-		Over-current protection / Over-heat protection					
	Compressor		-		Over-heat protection					
	PCB		-		Over-current protection					
Refrigerant	Type-Qty		-		R410A		R410A		R410A	
	Charge amount		lbs	(kg)	20.9+16.1+16.1	(9.5+7.3+7.3)	20.9+18.7+16.1	(9.5+8.5+7.3)	20.9+20.9+16.1	(9.5+9.5+7.3)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	2.1+1.6+1.6	(7.9+6.0+6.0)	2.1+1.6+1.6	(7.9+7.9+6.0)	2.1+1.6+1.6	(7.9+7.9+6.0)
Defrost Method			-		Reversed Refrigerant Cycle					
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)	1-5/8	(41.28)	1-5/8	(41.28)	1-5/8	(41.28)
	High/Low Pressure Gas Line		in	(mm)	1-3/8	(34.93)	1-3/8	(34.93)	1-3/8	(34.93)
	Liquid Line		in	(mm)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit 208/230V HR | 28-30 TON SYSTEMS

28-30 Ton Systems	Type					Triple Unit Systems			
	Tonnage					28RT (10RT+10RT+8RT)		30RT (10RT+10RT+10RT)	
Model (combination)						YVAHR336B31LM		YVAHR360B31LM	
Model (individual)	Unit A					YVAHR120B31S		YVAHR120B31S	
	Unit B					YVAHR120B31S		YVAHR120B31S	
	Unit C					YVAHR096B31S		YVAHR120B31S	
Power Supply						208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)		336,000	(98.5)	360,000	(105.5)
		Power input	kW			28.75		31.71	
		Current input	A (208V/230V)			89.0/84.0		83.7/79.6	
	Heating	Capacity (Nominal)	Btu/h	(kW)		378,000	(110.8)	405,000	(118.7)
		Power input	kW			26.79		29.19	
		Current input	A (208V/230V)			99.0/94.8		90.9/ 86.1	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)		320,000	(93.9)	342,000	(100.3)
		EER	Btu/Wh	(W/W)		10.50	(3.08)	10.20	(2.99)
		IEER	Btu/Wh	(Wh/Wh)		17.70	(5.19)	18.20	(5.34)
	Heating High	Capacity (Rated)	Btu/h	(kW)		344,000	(100.9)	366,000	(107.4)
		COP	W/W			3.51		3.35	
	Heating Low	Capacity	Btu/h	(kW)		266,000	(78.0)	268,000	(78.6)
		COP	W/W			2.12		2.05	
	Heat Recovery	SCHE	W/W			24.20		23.80	
Cooling Operating Range**	Indoor		°F WB (°C WB)			59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)			14(-10) ~ 118(48) *3		14(-10) ~ 118(48) *3	
Heating Operating Range**	Indoor		°F DB (°C DB)			59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)			-4(-20) ~ 59(15) *4		-4(-20) ~ 59(15) *4	
Cabinet Color (Munsell Code)						2.5Y 8/2			
Outer Dimensions	Height		in	(mm)		68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)		144-21/32	(3674)	144-21/32	(3674)
	Depth		in	(mm)		31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)		Reference: YVAHR120B31S YVAHR120B31S YVAHR096B31S		Reference: YVAHR120B31S YVAHR120B31S YVAHR120B31S	
	Width		in	(mm)					
	Depth		in	(mm)					
Weight	Net		lbs	(kg)		2194	(995)	2196	(996)
	Gross		lbs	(kg)		2365	(1073)	2367	(1074)
Connection Ratio	Total Indoor Unit Capacity		%			120 - 60		120 - 60	
	Max. (Recommendation) indoor units/ system		-			64 (38)		64 (38	
Heat Exchanger	Type		-			Multi-Pass Cross-Finned Tube			
	Material		-			Cu-Al (Anti-corrosion)			
Compressor	Type		Inverter			DA65PHD×3		DA65PHD×3	
			Fixed Speed			E655DH×3		E655DH×3	
	Motor Output (Pole)		kW (Pole)			6.0(6)+4.4(2) 6.0(6)+4.4(2) 4.8(6)+4.4(2)		6.0(6)+4.4(2) 6.0(6)+4.4(2) 6.0(6)+4.4(2)	
	Start Method		-			Inverter			
	Operation Range		%			5 ~ 100		5 ~ 100	
	Refrigeration Oil Type		-			FVC68D		FVC68D	
Crank Case Heater			W×Q'ty			40.8 (230V) ×12		40.8 (230V) ×12	
Fan	Type		-			Propeller Fan		Propeller Fan	
	Motor Output (Pole)		kW (Pole)			0.91(8)×2+0.66(8)		0.91(8)×3	
	Quantity		Q'ty			3		3	
	Air Flow Rate		cfm	(m^3/min)		7413+7413 +6884	(210+210 +195)	7413+7413 +7413	(210+210 +210)
	External static pressure****		in.WG	(Pa)		0 (0)			
	Drive					Direct drive			
Electrical	Min Circuit Amps		A			Reference: YVAHR120B31S YVAHR120B31S YVAHR096B31S		Reference: YVAHR120B31S YVAHR120B31S YVAHR120B31S	
	Recommended Fuse/Breaker Size		A						
	Maximum Fuse Size		A						
Sound Pressure Level	Cooling (Night-Shift)		dB(A)			68	(62)	69	(62)
	Heating		dB(A)			68		69	
Protection devices	Cycle		-			High pressure switch at 601psi (4.15MPa)			
	Inverter		-			Over-current protection / Over-heat protection			
	Compressor		-			Over-heat protection			
	PCB		-			Over-current protection			
Refrigerant	Type-Qty		-			R410A			
	Charge amount		lbs	(kg)		20.9+20.9+18.7	(9.5+9.5+8.5)	20.9+20.9+20.9	(9.5+9.5+9.5)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)		2.1+2.1+2.1	(7.9+7.9+7.9)	2.1+2.1+2.1	(7.9+7.9+7.9)
Defrost Method			-			Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)		1-5/8	(41.28)	1-5/8	(41.28)
	High/Low Pressure Gas Line		in	(mm)		1-5/8	(41.28)	1-5/8	(41.28)
	Liquid Line		in	(mm)		3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
208/230V HR (HEAT RECOVERY)

Heat recovery units can heat and cool spaces simultaneously. YORK VRF heat recovery units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

28-30 Ton Systems

Outdoor Unit 208/230V HR | 28-30 TON SYSTEMS

28-30 Ton Systems	Type					High Efficiency Quad Unit Systems			
	Tonnage					28 Ton (8+8+6+6)		30 Ton (10+8+6+6)	
Model (combination)						YVAHR336B31S		YVAHR360B31S	
Model (individual)	Unit A					YVAHR096B31S		YVAHR120B31S	
	Unit B					YVAHR096B31S		YVAHR096B31S	
	Unit C					YVAHR072B31S		YVAHR072B31S	
	Unit D					YVAHR072B31S		YVAHR072B31S	
Power Supply						208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)		336,000	(98.5)	360,000	(105.5)
		Power input	kW			27.38		30.34	
		Current input	A (208V/230V)			82.6 / 74.8		92.6 / 85.6	
	Heating	Capacity (Nominal)	Btu/h	(kW)		378,000	(110.8)	405,000	(118.7)
		Power input	kW			26.52		28.92	
		Current input	A (208V/230V)			82.0	/ 76.8	89.2	/ 83.3
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)		320,000	(93.9)	342,000	(100.3)
		EER	Btu/Wh	(W/W)		11.10	(3.26)	9.50	(2.79)
		IEER	Btu/Wh	(Wh/Wh)		21.20	(6.22)	18.50	(5.43)
	Heating High	Capacity (Rated)	Btu/h	(kW)		360,000	(105.6)	386,000	(113.2)
		COP	W/W			3.87		3.88	
	Heating Low	Capacity	Btu/h	(kW)		268,000	(78.6)	284,000	83.3
		COP	W/W			2.60		2.46	
	Heat Recovery	SCHE	W/W			26.90		27.60	
Cooling Operating Range**	Indoor		°F WB (°C WB)			59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)			14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)			59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)			-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)						2.5Y 8/2			
Outer Dimensions	Height		in	(mm)		68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)		173-5/32	(4398)	173-5/32	(4398)
	Depth		in	(mm)		31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)		Reference: YVAHR096B31S YVAHR096B31S YVAHR072B31S YVAHR072B31S		Reference: YVAHR120B31S YVAHR096B31S YVAHR072B31S YVAHR072B31S	
	Width		in	(mm)					
	Depth		in	(mm)					
Weight	Net		lbs	(kg)		2540	(1152)	2542	(1153)
	Gross		lbs	(kg)		2747	(1246)	2750	(1247)
Connection Ratio	Total Indoor Unit Capacity		%			140 - 65		135 - 65	
	Max. (Recommendation) indoor units/system		-			64 (38)		60 (38)	
Heat Exchanger	Type		-			Multi-Pass Cross-Finned Tube			
	Material		-			Cu-Al (Anti-corrosion)			
Compressor	Type		Inverter			DA65PHD×4		DA65PHD×4	
			Fixed Speed			E655DH×2		E655DH×2	
	Motor Output (Pole)		kW (Pole)			"4.8(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6) 7.26(6)"		"6.0(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6) 7.26(6)"	
	Start Method		-			Inverter			
	Operation Range		%			5 ~ 100		5 ~ 100	
	Refrigeration Oil Type		-			FVC68D		FVC68D	
Crank Case Heater			W×Q'ty			40.8 (230V) ×12		40.8 (230V) ×12	
Fan	Type		-			Propeller Fan			
	Motor Output (Pole)		kW (Pole)			0.66(8)x2+0.49(8)×2		0.91(8)+0.66(8)+0.49(8)×2	
	Quantity		Q'ty			4			
	Air Flow Rate		cfm	(m^3/min)		6884+6884+6178+6178	195+195+175+175	7413+6884+6884+6178	210+195+195+175
	External static pressure****		in.WG	(Pa)		0 (0)			
	Drive					Direct drive			
Electrical	Min Circuit Amps		A			Reference: YVAHR096B31S YVAHR096B31S YVAHR072B31S YVAHR072B31S		Reference: YVAHR120B31S YVAHR096B31S YVAHR072B31S YVAHR072B31S	
	Recommended Fuse/Breaker Size		A						
	Maximum Fuse Size		A						
Sound Pressure Level	Cooling (Night-Shift)		dB(A)			68	(63)	68	(63)
	Heating		dB(A)			68		68	
Protection devices	Cycle		-			High pressure switch at 601psi (4.15MPa)			
	Inverter		-			Over-current protection / Over-heat protection			
	Compressor		-			Over-heat protection			
	PCB		-			Over-current protection			
Refrigerant	Type-Qty		-			R410A			
	Charge amount		lbs	(kg)		18.7+18.7+16.1+16.1	(8.5+8.5+7.3+7.3)	20.9+18.7+16.1+16.1	(9.5+8.5+7.3+7.3)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)		2.1+2.1+1.6+1.6	(7.9+7.9+6.0+6.0)	2.1+2.1+1.6+1.6	(7.9+7.9+6.0+6.0)
Defrost Method			-			Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)		1-5/8	(41.28)	1-5/8	(41.28)
	High/Low Pressure Gas Line		in	(mm)		1-3/8	(34.93)	1-3/8	(34.93)
	Liquid Line		in	(mm)		3/4	(19.05)	3/4	(19.05)

High Efficiency Configuration

High Efficiency Configuration

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
460V HR (HEAT RECOVERY)

Heat recovery units can heat and cool spaces simultaneously. YORK VRF heat recovery units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

6-10 Ton Systems

Outdoor Unit 460V HR | 6-10 TON SYSTEMS

6-10 Ton Systems	Type				Single Unit Systems					
	Tonnage				6 Ton		8 Ton		10 Ton	
Model					YVAHR072B41S		YVAHR096B41S		YVAHR120B41S	
Power Supply					460V/ 3PH 60Hz		460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	72,000	(21.1)	96,000	(28.1)	120,000	(35.2)
		Power input	kW		6.08		7.61		10.57	
		Current input	A		8.5		10.6		15.8	
	Heating	Capacity (Nominal)	Btu/h	(kW)	81,000	(23.7)	108,000	(31.7)	135,000	(39.6)
		Power input	kW		5.93		7.33		9.73	
		Current input	A		8.3		11.1		14.4	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	69,000	(20.2)	92,000	(27.0)	114,000	(33.4)
		EER	Btu/Wh	(W/W)	15.30	(4.49)	13.10	(3.84)	11.20	(3.29)
		IEER	Btu/Wh	(Wh/Wh)	24.80	(7.27)	21.40	(6.28)	19.80	(5.81)
	Heating High	Capacity (Rated)	Btu/h	(kW)	76,000	(22.3)	103,000	(30.2)	129,000	(37.8)
		COP	W/W		4.14		3.88		3.66	
	Heating Low	Capacity	Btu/h	(kW)	55,000	(16.1)	76,000	(22.3)	89,000	(26.1)
		COP	W/W		2.48		2.31		2.25	
	Heat Recovery	SCHE	W/W		22.60		26.30		26.00	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)					2.5Y 8/2					
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width		in	(mm)	37-7/8	(962)	48-1/8	(1222)	48-1/8	(1222)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	74-1/4	(1886)	74-1/4	(1886)	74-1/4	(1886)
	Width		in	(mm)	40-5/8	(1032)	50-7/8	(1292)	50-7/8	(1292)
	Depth		in	(mm)	34-1/32	(864)	34-1/32	(864)	34-1/32	(864)
Weight	Net		lbs	(kg)	606	(275)	796	(361)	798	(362)
	Gross		lbs	(kg)	653	(296)	853	(387)	856	(388)
Connection Ratio	Total Indoor Unit Capacity		%		150 - 70		135 - 65		130 - 60	
	Max. (Recommendation) indoor units/ system		-		18 (10)		21 (16)		25 (16)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube					
	Material		-		Cu-Al (Anti-corrosion)					
Compressor	Type		Inverter		DA65PHD×1		DA65PHD×1		DA65PHD×1	
			Fixed Speed		-		E655DH×1		E655DH×1	
	Motor Output (Pole)		kW (Pole)		7.2(6)		4.8(6)+4.4(2)		6.0(6)+4.4(2)	
	Start Method		-		Inverter					
	Operation Range		%		20 ~ 100		16 ~ 100		15 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V)×2		40.8 (230V) ×4		40.8 (230V) ×4	
Fan	Type		-		Propeller Fan					
	Motor Output (Pole)		kW (Pole)		0.49(8)		0.66(8)		0.91(8)	
	Quantity		Q'ty		1		1		1	
	Air Flow Rate		cfm	(m^3/min)	6178	(175)	6884	(195)	7413	(210)
	External static pressure***		in.WG	(Pa)	0 (0)					
	Drive				Direct drive					
Electrical	Min Circuit Amps		A		24		28		34	
	Recommended Fuse/Breaker Size		A		40					
	Maximum Fuse Size		A		40					
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		60	(55)	62	(57)	64	(57)
	Heating		dB(A)		60		62		64	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)					
	Inverter		-		Over-current protection / Over-heat protection					
	Compressor		-		Over-heat protection					
	PCB		-		Over-current protection					
Refrigerant	Type-Qty		-		R410A					
	Charge amount		lbs	(kg)	16.1	(7.3)	18.7	(8.5)	20.9	(9.5)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	1.6	(6.0)	2.1	(7.9)	2.1	(7.9)
Defrost Method			-		Reversed Refrigerant Cycle					
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)	1-1/8	(28.58)	1-1/8	(28.58)	1-1/8	(28.58)
	High/Low Pressure Gas Line		in	(mm)	7/8	(22.2)	7/8	(22.2)	7/8	(22.2)
	Liquid Line		in	(mm)	1/2	(12.7)	1/2	(12.7)	1/2	(12.7)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** External static pressure can be changed via DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
460V HR (HEAT RECOVERY)

Heat recovery units can heat and cool spaces simultaneously. YORK VRF heat recovery units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

12-20 Ton Systems

Outdoor Unit 460V HR | 12-20 TON SYSTEMS

12-20 Ton Systems	Type				Twin Unit Systems							
	Tonnage				12 Ton (6+6)		14 Ton (8+6)		16 Ton (8+8)		20 Ton (10+10)	
Model (combination)					YVAHR144B41S		YVAHR168B41S		YVAHR192B41S		YVAHR240B41LM	
Model (individual)	Unit A				YVAHR072B41S		YVAHR096B41S		YVAHR096B41S		YVAHR120B41S	
	Unit B				YVAHR072B41S		YVAHR072B41S		YVAHR096B41S		YVAHR120B41S	
Power Supply					460V/ 3PH 60Hz		460V/ 3PH 60Hz		460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	144,000	(42.2)	168,000	(49.2)	192,000	(56.3)	240,000	(70.3)
		Power input	kW		12.16		13.69		15.22		21.14	
		Current input	A		17.0		19.1		21.2		31.6	
	Heating	Capacity (Nominal)	Btu/h	(kW)	162,000	(47.5)	189,000	(55.4)	216,000	(63.3)	270,000	(79.1)
		Power input	kW		11.86		13.26		14.66		19.46	
		Current input	A		16.6		19.4		22.2		28.8	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	138,000	(40.5)	160,000	(46.9)	182,000	(53.4)	228,000	(66.9)
		EER	Btu/Wh	(W/W)	14.30	(4.19)	10.80	(3.17)	10.60	(3.11)	10.50	(3.08)
		IEER	Btu/Wh	(Wh/Wh)	23.80	(6.98)	19.40	(5.69)	18.60	(5.46)	17.40	(5.10)
	Heating High	Capacity (Rated)	Btu/h	(kW)	154,000	(45.2)	178,000	(52.2)	204,000	(59.8)	258,000	(75.7)
		COP	W/W		4.04		3.51		3.53		3.53	
	Heating Low	Capacity	Btu/h	(kW)	109,000	(32.0)	129,000	(37.8)	150,000	(44.0)	182,000	(53.4)
		COP	W/W		2.64		2.16		2.26		2.11	
	Heat Recovery	SCHE	W/W		28.60		26.00		27.00		23.40	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48) *3	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15) *4	
Cabinet Color (Munsell Code)					2.5Y 8/2							
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	76-5/32	(1934)	86-3/8	(2194)	96-5/8	(2454)	96-5/8	(2454)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHR072B41S YVAHR072B41S		Reference: YVAHR096B41S YVAHR072B41S		Reference: YVAHR096B41S YVAHR096B41S		Reference: YVAHR120B41S YVAHR120B41S	
	Width		in	(mm)								
	Depth		in	(mm)								
Weight	Net		lbs	(kg)	1213	(550)	1402	(636)	1592	(722)	1596	(724)
	Gross		lbs	(kg)	1305	(592)	1506	(683)	1707	(774)	1712	(776)
Connection Ratio	Total Indoor Unit Capacity		%		150 - 75		140 - 65		135 - 65		120 - 60	
	Max. (Recommendation) indoor units/system		-		36 (26)		39 (32)		43 (32)		48 (32)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube							
	Material		-		Cu-Al (Anti-corrosion)							
Compressor	Type		Inverter		DA65PHD×2		DA65PHD×2		DA65PHD×2		DA65PHD×2	
			Fixed Speed		-		E655DH×1		E655DH×2		DA65PHC×2	
	Motor Output (Pole)		kW (Pole)		7.26(6) 7.26(6)		4.8(6)+4.4(2) 7.26(6)		4.8(6)+4.4(2) 4.8(6)+4.4(2)		6.0(6)+4.4(2) 6.0(6)+4.4(2)	
	Start Method		-		Inverter							
	Operation Range		%		10 ~ 100		9 ~ 100		8 ~ 100		8 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V)×4		40.8 (230V)×6		40.8 (230)×8		40.8 (230V) ×8	
Fan	Type		-		Propeller Fan							
	Motor Output (Pole)		kW (Pole)		0.49(8)x2		0.66(8)+0.49(8)		0.66(8)×2		0.91(8)×2	
	Quantity		Q'ty		2							
	Air Flow Rate		cfm	(m^3/min)	6178+6178	(175+175)	6884+6178	(195+175)	6884+6884	(195+195)	7413+7413	(210+210)
	External static pressure****		in.WG	(Pa)	0 (0)						0 (0)*6	
	Drive				Direct drive							
Electrical	Min Circuit Amps		A		Reference: YVAHR072B41S YVAHR072B41S		Reference: YVAHR096B41S YVAHR072B41S		Reference: YVAHR096B41S YVAHR096B41S		Reference: YVAHR120B41S YVAHR120B41S	
	Recommended Fuse/Breaker Size		A									
	Maximum Fuse Size		A									
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		63	(58)	65	(60)	65	(60)	66	(60)
	Heating		dB(A)		63		65		65		66	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)							
	Inverter		-		Over-current protection / Over-heat protection							
	Compressor		-		Over-heat protection							
	PCB		-		Over-current protection							
Refrigerant	Type-Qty		-		R410A							
	Charge amount		lbs	(kg)	16.1+16.1	(7.3+7.3)	18.7+16.1	(8.5+7.3)	18.7+18.7	(8.5+8.5)	20.9+20.9	(9.5+9.5)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	1.6+1.6	(6.0+6.0)	2.1+1.6	(7.9+6.0)	2.1+2.1	(7.9+7.9)	2.1+2.1	(7.9+7.9)
Defrost Method			-		Reversed Refrigerant Cycle							
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)	1-1/8	(28.58)	1-3/8	(34.93)	1-3/8	(34.93)	1-3/8	(34.93)
	High/Low Pressure Gas Line		in	(mm)	7/8	(22.2)	1-1/8	(28.58)	1-1/8	(28.58)	1-1/8	(28.58)
	Liquid Line		in	(mm)	5/8	(15.88)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
460V HR (HEAT RECOVERY)

Heat recovery units can heat and cool spaces simultaneously. YORK VRF heat recovery units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

18-30 Ton Systems

Outdoor Unit 460V HR | 18-30 TON SYSTEMS

High Efficiency Configuration

18-30 Ton Systems	Type				Triple Unit Systems			
	Tonnage				18 Ton (6+6+6)		20 Ton (8+6+6)	
Model (combination)					YVAHR216B41S		YVAHR240B41S	
Model (individual)	Unit A				YVAHR072B41S		YVAHR096B41S	
	Unit B				YVAHR072B41S		YVAHR072B41S	
	Unit C				YVAHR072B41S		YVAHR072B41S	
Power Supply					460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	216,000	(63.3)	240,000	(70.3)
		Power input	kW		18.24		19.77	
		Current input	A		25.5		27.6	
	Heating	Capacity (Nominal)	Btu/h	(kW)	243,000	(71.2)	270,000	(79.1)
		Power input	kW		17.79		19.19	
		Current input	A		24.9		27.7	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	206,000	(60.4)	228,000	(66.9)
		EER	Btu/Wh	(W/W)	10.60	(3.11)	10.20	(2.99)
		IEER	Btu/Wh	(Wh/Wh)	18.80	(5.51)	19.80	(5.81)
	Heating High	Capacity (Rated)	Btu/h	(kW)	232,000	(68.1)	258,000	(75.7)
		COP	W/W		3.32		3.68	
	Heating Low	Capacity	Btu/h	(kW)	164,000	(48.1)	182,000	(53.4)
		COP	W/W		2.23		2.32	
	Heat Recovery	SCHE	W/W		25.10		27.00	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)					2.5Y 8/2			
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	114-13/32	(2906)	124-21/32	(3166)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHR072B41S YVAHR072B41S YVAHR072B41S		Reference: YVAHR096B41S YVAHR072B41S YVAHR072B41S	
	Width		in	(mm)				
	Depth		in	(mm)				
Weight	Net		lbs	(kg)	1819	(825)	2009	(911)
	Gross		lbs	(kg)	1958	(888)	2159	(979)
Connection Ratio	Total Indoor Unit Capacity		%		150 ~ 70		150 ~ 70	
	Max. (Recommendation) indoor units/ system		-		54 (32)		60 (38)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube			
	Material		-		Cu-Al (Anti-corrosion)			
Compressor	Type		Inverter		DA65PHD×3		DA65PHD×3	
			Fixed Speed		–		E655DH×1	
	Motor Output (Pole)		kW (Pole)		7.26(6) 7.26(6) 7.26(6)		4.8(6)+4.4(2) 7.26(6) 7.26(6)	
	Start Method		-		Inverter			
	Operation Range		%		7 ~ 100		6 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V) ×6		40.8 (230V) ×8	
Fan	Type		-		Propeller Fan			
	Motor Output (Pole)		kW (Pole)		0.49(8)×3		0.66(8)+0.49(8)×2	
	Quantity		Q'ty		3		3	
	Air Flow Rate		cfm	(m^3/min)	6178+6178+6178	(175+175+175)	6884+6178+6178	(195+175+175)
	External static pressure****		in.WG	(Pa)	0 (0)			
	Drive				Direct drive			
Electrical	Min Circuit Amps		A		Reference: YVAHR072B41S YVAHR072B41S YVAHR072B41S		Reference: YVAHR096B41S YVAHR072B41S YVAHR072B41S	
	Recommended Fuse/Breaker Size		A					
	Maximum Fuse Size		A					
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		65	(60)	66	(61)
	Heating		dB(A)		65		66	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)			
	Inverter		-		Over-current protection / Over-heat protection			
	Compressor		-		Over-heat protection			
	PCB		-		Over-current protection			
Refrigerant	Type-Qty		-		R410A			
	Charge amount		lbs	(kg)	16.1+16.1+16.1	(7.3+7.3+7.3)	18.7+16.1+16.1	(8.5+7.3+7.3)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	1.6+1.6.+1.6	(6.0+6.0+6.0)	2.1+1.6.+1.6	(7.9+6.0+6.0)
Defrost Method			-		Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)	1-3/8	(34.93)	1-5/8	(41.28)
	High/Low Pressure Gas Line		in	(mm)	1-1/8	(28.58)	1-3/8	(34.93)
	Liquid Line		in	(mm)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

YORK VRF

Outdoor Unit 460V HR | 18-30 TON SYSTEMS *(continued)*

18-30 Ton Systems	Type				Triple Unit Systems					
	Tonnage				22 Ton (10+6+6)		24 Ton (10+8+6)		26 Ton (10+10+6)	
Model (combination)					YVAHR264B41S		YVAHR288B41S		HVAHR312B41S	
Model (individual)	Unit A				YVAHR120B41S		YVAHR120B41S		YVAHR120B41S	
	Unit B				YVAHR072B41S		YVAHR096B41S		YVAHR120B41S	
	Unit C				YVAHR072B41S		YVAHR072B41S		YVAHR072B41S	
Power Supply					460V/ 3PH 60Hz		460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	264,000	(77.4)	288,000	(84.4)	312,000	(91.4)
		Power input	kW		22.73		24.26		27.22	
		Current input	A		32.8		34.9		40.1	
	Heating	Capacity (Nominal)	Btu/h	(kW)	297,000	(87.0)	324,000	(95.0)	351,000	(102.9)
		Power input	kW		21.59		22.99		25.39	
		Current input	A		31.0		33.8		37.1	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	252,000	(73.9)	274,000	(80.4)	296,000	(86.8)
		EER	Btu/Wh	(W/W)	10.00	(2.93)	9.50	(2.79)	9.50	(2.79)
		IEER	Btu/Wh	(Wh/Wh)	18.20	(5.34)	17.70	(5.19)	17.90	(5.25)
	Heating High	Capacity (Rated)	Btu/h	(kW)	280,000	(82.1)	308,000	(90.3)	334,000	(98.0)
		COP	W/W		3.50		3.58		3.45	
	Heating Low	Capacity	Btu/h	(kW)	200,000	(58.7)	216,000	(63.4)	236,000	(69.2)
		COP	W/W		2.30		2.34		2.30	
	Heat Recovery	SCHE	W/W		26.20		24.40		25.20	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)					2.5Y 8/2					
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	124-21/32	(3166)	134-7/8	(3426)	134-7/8	(3426)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHR120B41S		Reference: YVAHR120B41S		Reference: YVAHR120B41S	
	Width		in	(mm)	YVAHR072B41S		YVAHR096B41S		YVAHR120B41S	
	Depth		in	(mm)	YVAHR072B41S		YVAHR072B41S		YVAHR072B41S	
Weight	Net		lbs	(kg)	2011	(912)	2201	(998)	2203	(999)
	Gross		lbs	(kg)	2161	(980)	2362	(1071)	2364	(1072)
Connection Ratio	Total Indoor Unit Capacity		%		140 - 65		135 - 65		130 - 65	
	Max. (Recommendation) indoor units/system		-		61 (38)		64 (38)		64 (38)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube					
	Material		-		Cu-Al (Anti-corrosion)					
Compressor	Type		Inverter		DA65PHD×3		DA65PHD×3		DA65PHD×3	
			Fixed Speed		E655DH×1		E655DH×2		E655DH×2	
	Motor Output (Pole)		kW (Pole)		6.0(6)+4.4(2) 7.26(6) 7.26(6)		6.0(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6)		6.0(6)+4.4(2) 6.0(6)+4.4(2) 7.26(6)	
	Start Method		-		Inverter					
	Operation Range		%		6 ~ 100		6 ~ 100		6 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V) ×8		40.8 (230V) ×10		40.8 (230V) ×10	
Fan	Type		-		Propeller Fan					
	Motor Output (Pole)		kW (Pole)		0.91(8)+0.49(8)×2		0.91(8)+0.66(8)+0.49(8)		0.91(8)×2+0.49(8)	
	Quantity		Q'ty		3		3		3	
	Air Flow Rate		cfm	(m^3/min)	7413+6178+6178	(210+175+175)	7413+6884+6178	(210+195+175)	7413+7413+6178	(210+210+175)
	External static pressure****		in.WG	(Pa)	0 (0)					
	Drive				Direct drive					
Electrical	Min Circuit Amps		A		Reference: YVAHR120B41S		Reference: YVAHR120B41S		Reference: YVAHR120B41S	
	Recommended Fuse/Breaker Size		A		YVAHR072B41S		YVAHR096B41S		YVAHR120B41S	
	Maximum Fuse Size		A		YVAHR072B41S		YVAHR072B41S		YVAHR072B41S	
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		67	(61)	67	(62)	68	(62)
	Heating		dB(A)		67		67		68	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)					
	Inverter		-		Over-current protection / Over-heat protection					
	Compressor		-		Over-heat protection					
	PCB		-		Over-current protection					
Refrigerant	Type-Qty		-		R410A		R410A		R410A	
	Charge amount		lbs	(kg)	20.9+16.1 +16.1	(9.5+7.3+7.3)	20.9+18.7 +16.1	(9.5+8.5+7.3)	20.9+20.9 +16.1	(9.5+9.5+7.3)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	2.1+1.6+1.6	(7.9+6.0+6.0)	2.1+2.1+1.6	(7.9+7.9+6.0)	2.1+2.1+1.6	(7.9+7.9+6.0)
Defrost Method			-		Reversed Refrigerant Cycle					
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)	1-5/8	(41.28)	1-5/8	(41.28)	1-5/8	(41.28)
	High/Low Pressure Gas Line		in	(mm)	1-3/8	(34.93)	1-3/8	(34.93)	1-3/8	(34.93)
	Liquid Line		in	(mm)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit 460V HR | 18-30 TON SYSTEMS *(continued)*

18-30 Ton Systems	Type				Triple Unit Systems			
	Tonnage				28 Ton (10+10+8)		30 Ton (10+10+10)	
Model (combination)					YVAHR336B41LM		YVAHR360B41LM	
Model (individual)	Unit A				YVAHR120B41S		YVAHR120B41S	
	Unit B				YVAHR120B41S		YVAHR120B41S	
	Unit C				YVAHR096B41S		YVAHR120B41S	
Power Supply					460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	336,000	(98.5)	360,000	(105.5)
		Power input	kW		28.75		31.71	
		Current input	A		42.2		47.4	
	Heating	Capacity (Nominal)	Btu/h	(kW)	378,000	(110.8)	405,000	(118.7)
		Power input	kW		26.79		29.19	
		Current input	A		39.9		43.2	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	320,000	(93.9)	342,000	(100.3)
		EER	Btu/Wh	(W/W)	10.00	(2.93)	9.70	(2.85)
		IEER	Btu/Wh	(Wh/Wh)	17.70	(5.19)	17.50	(5.13)
	Heating High	Capacity (Rated)	Btu/h	(kW)	344,000	(100.9)	366,000	(107.4)
		COP	W/W		3.51		3.35	
	Heating Low	Capacity	Btu/h	(kW)	266,000	(78.0)	268,000	(78.6)
		COP	W/W		2.10		2.01	
	Heat Recovery	SCHE	W/W		23.50		23.10	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48) *3		14(-10) ~ 118(48) *3	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15) *4		-4(-20) ~ 59(15) *4	
Cabinet Color (Munsell Code)					2.5Y 8/2			
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	144-21/32	(3674)	144-21/32	(3674)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHR072B41S YVAHR072B41S YVAHR072B41S		Reference: YVAHR096B41S YVAHR072B41S YVAHR072B41S	
	Width		in	(mm)				
	Depth		in	(mm)				
Weight	Net		lbs	(kg)	2392	(1085)	2394	(1086)
	Gross		lbs	(kg)	2565	(1163)	2568	(1164)
Connection Ratio	Total Indoor Unit Capacity		%		120 ~ 60		120 ~ 60	
	Max. (Recommendation) indoor units/ system		-		64 (38)		64 (38)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube			
	Material		-		Cu-Al (Anti-corrosion)			
Compressor	Type		Inverter		DA65PHD×3		DA65PHD×3	
			Fixed Speed		DA65PHC×3		DA65PHC×3	
	Motor Output (Pole)		kW (Pole)		6.0(6)+4.4(2) 6.0(6)+4.4(2) 4.8(6)+4.4(2)		6.0(6)+4.4(2) 6.0(6)+4.4(2) 6.0(6)+4.4(2)	
	Start Method		-		Inverter			
	Operation Range		%		5 ~ 100		5 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V) ×12		40.8 (230V) ×12	
Fan	Type		-		Propeller Fan			
	Motor Output (Pole)		kW (Pole)		0.91(8)×2+0.66(8)		0.91(8)×3	
	Quantity		Q'ty		3		3	
	Air Flow Rate		cfm	(m^3/min)	7413+7413+6884	(210+210+195)	7413+7413+7413	(210+210+210)
	External static pressure****		in.WG	(Pa)	0 (0)*6			
	Drive				Direct drive			
Electrical	Min Circuit Amps		A		Reference: YVAHR072B41S YVAHR072B41S YVAHR072B41S		Reference: YVAHR096B41S YVAHR072B41S YVAHR072B41S	
	Recommended Fuse/Breaker Size		A					
	Maximum Fuse Size		A					
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		68	(62)	69	(62)
	Heating		dB(A)		68		69	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)			
	Inverter		-		Over-current protection / Over-heat protection			
	Compressor		-		Over-heat protection			
	PCB		-		Over-current protection			
Refrigerant	Type-Qty		-		R410A			
	Charge amount		lbs	(kg)	20.9+20.9+18.7	(9.5+9.5+8.5)	20.9+20.9+20.9	(9.5+9.5+9.5)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	2.1+2.1+2.1	(7.9+7.9+7.9)	2.1+2.1+2.1	(7.9+7.9+7.9)
Defrost Method			-		Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in	(mm)	1-5/8	(41.28)	1-5/8	(41.28)
	High/Low Pressure Gas Line		in	(mm)	1-3/8	(34.93)	1-3/8	(34.93)
	Liquid Line		in	(mm)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
460V HR (HEAT RECOVERY)

Heat recovery units can heat and cool spaces simultaneously. YORK VRF heat recovery units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

28-30 Ton Systems

Outdoor Unit 460V HR | 28-30 TON SYSTEMS

28-30 Ton Systems	Type					High Efficiency Quad Unit Systems			
	Tonnage					28 Ton (8+8+6+6)		30 Ton (10+8+6+6)	
Model (combination)						YVAHR336B41S		YVAHR360B41S	
Model (individual)	Unit A					YVAHR096B41S		YVAHR120B41S	
	Unit B					YVAHR096B41S		YVAHR096B41S	
	Unit C					YVAHR072B41S		YVAHR072B41S	
	Unit D					YVAHR072B41S		YVAHR072B41S	
Power Supply						460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h		(kW)	336,000	(98.5)	360,000	(105.5)
		Power input	kW			27.38		30.34	
		Current input	A			38.2		43.4	
	Heating	Capacity (Nominal)	Btu/h		(kW)	378,000	(110.8)	405,000	(118.7)
		Power input	kW			26.52		28.92	
		Current input	A			38.8		42.1	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h		(kW)	320,000	(93.9)	342,000	(100.3)
		EER	Btu/Wh		(W/W)	10.50	(3.08)	9.50	(2.79)
		IEER	Btu/Wh		(Wh/Wh)	20.20	(5.93)	17.50	(5.13)
	Heating High	Capacity (Rated)	Btu/h		(kW)	360,000	(105.6)	386,000	(113.2)
		COP	W/W			3.68		3.68	
	Heating Low	Capacity	Btu/h		(kW)	268,000	(78.6)	284,000	83.3
		COP	W/W			2.52		2.36	
	Heat Recovery	SCHE	W/W			26.10		26.80	
Cooling Operating Range**	Indoor		°F WB (°C WB)			59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)			14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)			59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)			-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)						2.5Y 8/2			
Outer Dimensions	Height		in		(mm)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in		(mm)	173-5/32	(4398)	173-5/32	(4398)
	Depth		in		(mm)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in		(mm)	Reference:		Reference:	
	Width		in		(mm)	YVAHR096B41S YVAHR096B41S		YVAHR120B41S YVAHR096B41S	
	Depth		in		(mm)	YVAHR072B41S YVAHR072B41S		YVAHR072B41S YVAHR072B41S	
Weight	Net		lbs		(kg)	2805	(1272)	2807	(1273)
	Gross		lbs		(kg)	3012	(1366)	3014	(1367)
Connection Ratio	Total Indoor Unit Capacity		%			140 - 65		135 - 65	
	Max. (Recommendation) indoor units/ system		-			64 (38)		64 (38)	
Heat Exchanger	Type		-			Multi-Pass Cross-Finned Tube			
	Material		-			Cu-Al (Anti-corrosion)			
Compressor	Type		Inverter			DA65PHD×4		DA65PHD×4	
			Fixed Speed			E655DH×2		E655DH×2	
	Motor Output (Pole)		kW (Pole)			4.8(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6) 7.26(6)		6.0(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6) 7.26(6)	
	Start Method		-			Inverter			
	Operation Range		%			5 ~ (100)		5 ~ (100)	
	Refrigeration Oil Type		-			FVC68D		FVC68D	
Crank Case Heater			W×Q'ty			40.8 (230V)×12		40.8 (230V)×12	
Fan	Type		-			Propeller Fan			
	Motor Output (Pole)		kW (Pole)			0.66(8)×2++0.49(8)x2		0.91(8)+0.66(8)+0.49(8)x2	
	Quantity		Q'ty			4			
	Air Flow Rate		cfm		(m^3/min)	6884+6884+6178+6178	(195+195+175+175)	7413+6884+6884+6178	(210+195+195+175)
	External static pressure****		in.WG		(Pa)	0 (0)			
	Drive					Direct drive			
Electrical	Min Circuit Amps		A			Reference:		Reference:	
	Recommended Fuse/Breaker Size		A			YVAHR096B41S YVAHR096B41S		YVAHR120B41S YVAHR096B41S	
	Maximum Fuse Size		A			YVAHR072B41S YVAHR072B41S		YVAHR072B41S YVAHR072B41S	
Sound Pressure Level	Cooling (Night-Shift)		dB(A)			68	(63)	68	(63)
	Heating		dB(A)			68		68	
Protection devices	Cycle		-			High pressure switch at 601psi (4.15MPa)		High pressure switch at 601psi (4.15MPa)	
	Inverter		-			Over-current protection / Over-heat protection			
	Compressor		-			Over-heat protection			
	PCB		-			Over-current protection			
Refrigerant	Type-Qty		-			R410A			
	Charge amount		lbs		(kg)	18.7+18.7+16.1+16.1	(8.5+8.5+7.3+7.3)	20.9+18.7+16.1+16.1	(9.5+8.5+7.3+7.3)
Refrigeration Oil	Charge amount		gal/Unit		(l/Unit)	2.1+2.1+1.6+1.6	(7.9+7.9+6.0+6.0)	2.1+2.1+1.6+1.6	(7.9+7.9+6.0+6.0)
Defrost Method			-			Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Recovery)	Low Pressure Gas Line		in		(mm)	1-5/8	(41.28)	1-5/8	(41.28)
	High/Low Pressure Gas Line		in		(mm)	1-3/8	(34.93)	1-3/8	(34.93)
	Liquid Line		in		(mm)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
208/230V HP (HEAT PUMP)

Heat pump units can either heat or cool spaces. YORK VRF heat pump units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

6-10 Ton Systems

Outdoor Unit 208/230V HP | 6-10 TON SYSTEMS

6-10 Ton Systems	Type				Single Unit Systems					
	Tonnage				6 Ton		8 Ton		10 Ton	
Model					YVAHP072B31S		YVAHP096B31S		YVAHP120B31S	
Power Supply					208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	72,000	(21.1)	96,000	(28.1)	120,000	(35.2)
		Power input	kW		6.08		7.61		10.57	
		Current input	A (208V/230V)		18.3	/ 16.6	23.0	/ 20.8	33.0	/ 31.6
	Heating	Capacity (Nominal)	Btu/h	(kW)	81,000	(23.7)	108,000	(31.7)	135,000	(39.6)
		Power input	kW		5.93		7.33		9.73	
		Current input	A (208V/230V)		17.9	/ 16.2	23.1	/ 22.2	30.3	/ 28.7
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	69,000	(20.2)	92,000	(27.0)	114,000	(33.4)
		EER	Btu/Wh	(W/W)	15.60	(4.58)	13.70	(4.02)	11.60	(3.40)
		IEER	Btu/Wh	(Wh/Wh)	25.20	(7.39)	21.80	(6.39)	20.80	(6.10)
	Heating High	Capacity (Rated)	Btu/h	(kW)	76,000	(22.3)	103,000	(30.2)	129,000	(37.8)
		COP	W/W		4.21		4.01		3.74	
	Heating Low	Capacity	Btu/h	(kW)	55,000	(16.1)	76,000	(22.3)	89,000	(26.1)
		COP	W/W		2.60		2.43		2.36	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)					2.5Y 8/2					
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width		in	(mm)	37-7/8	(962)	48-1/8	(1222)	48-1/8	(1222)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	74-1/4	(1886)	74-1/4	(1886)	74-1/4	(1886)
	Width		in	(mm)	40-5/8	(1032)	50-7/8	(1292)	50-7/8	(1292)
	Depth		in	(mm)	34-1/32	(864)	34-1/32	(864)	34-1/32	(864)
Weight	Net		lbs	(kg)	540	(245)	730	(331)	732	(332)
	Gross		lbs	(kg)	587	(266)	787	(357)	789	(358)
Connection Ratio	Total Indoor Unit Capacity		%		150 ~ 70		135 ~ 65		130 ~ 60	
	Max. (Recommendation) indoor units/ system		-		18 (10)		21 (16)		25 (16)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube					
	Material		-		Cu-Al (Anti-corrosion)					
Compressor	Type		Inverter		DA65PHD×1		DA65PHD×1		DA65PHD×1	
			Fixed Speed		-		E655DH×1		E655DH×1	
	Motor Output (Pole)		kW (Pole)		7.2(6)		4.8(6)+4.4(2)		6.0(6)+4.4(2)	
	Start Method		-		Inverter					
	Operation Range		%		20 ~ 100		16 ~ 100		15 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V) ×2		40.8 (230V) ×4		40.8 (230V) ×4	
Fan	Type		-		Propeller Fan					
	Motor Output (Pole)		kW (Pole)		0.49(8)		0.66(8)		0.91(8)	
	Quantity		Q'ty		1					
	Air Flow Rate		cfm	(m^3/min)	6178	(175)	6884	(195)	7413	(210)
	External static pressure***		in.WG	(Pa)	0 (0)					
	Drive				'Direct drive					
Electrical	Min Circuit Amps		A		45/40		55/50		64/58	
	Recommended Fuse/Breaker Size		A		60/60		70/70		90/80	
	Maximum Fuse Size		A		70/70		80/70		90/80	
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		60	(55)	62	(57)	64	(57)
	Heating		dB(A)		60		62		64	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)					
	Inverter		-		Over-current protection / Over-heat protection					
	Compressor		-		Over-heat protection					
	PCB		-		Over-current protection					
Refrigerant	Type-Qty		-		R410A					
	Charge amount		lbs	(kg)	16.1	(7.3)	18.7	(8.5)	20.9	(9.5)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	1.6	(6.0)	2.1	(7.9)	2.1	(7.9)
Defrost Method			-		Reversed Refrigerant Cycle					
Main Refrigerant Piping (Heat Pump)	High/Low Pressure Gas Line		in	(mm)	1-1/8	(28.58)	1-1/8	(28.58)	1-1/8	(28.58)
	Liquid Line		in	(mm)	1/2	(12.7)	1/2	(12.7)	1/2	(12.7)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** External static pressure can be changed via DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
208/230V HP (HEAT PUMP)

Heat pump units can either heat or cool spaces. YORK VRF heat pump units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

12-20 Ton Systems

Outdoor Unit 208/230V HP | 12-20 TON SYSTEMS

12-20 Ton Systems	Type				Twin Unit Systems							
	Tonnage				12 Ton (6+6)		14 Ton (8+6)		16 Ton (8+8)		20 Ton (10+10)	
Model (combination)					YVAHP144B31S		YVAHP168B31S		YVAHP192B31S		YVAHP240B31LM	
Model (individual)	Unit A				YVAHP072B31S		YVAHP096B31S		YVAHP096B31S		YVAHP120B31S	
	Unit B				YVAHP072B31S		YVAHP072B31S		YVAHP096B31S		YVAHP120B31S	
Power Supply					208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	144,000	(42.2)	168,000	(49.2)	192,000	(56.3)	240,000	(70.3)
		Power input	kW		12.16		13.69		15.22		21.14	
		Current input	A (208V/230V)		36.6 / 33.2		41.3 / 37.4		46.0 / 41.6		66.0 / 63.2	
	Heating	Capacity (Nominal)	Btu/h	(kW)	162,000	(47.5)	189,000	(55.4)	216,000	(63.3)	270,000	(79.1)
		Power input	kW		11.86		13.26		14.66		19.46	
		Current input	A (208V/230V)		35.8 /32.4		41.0 / 38.4		46.2/44.4		60.6 / 57.4	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	138,000	(40.5)	160,000	(46.9)	182,000	(53.4)	228,000	(66.9)
		EER	Btu/Wh	(W/W)	14.50	(4.25)	11.40	(3.34)	10.60	(3.11)	11.10	(3.26)
		IEER	Btu/Wh	(Wh/Wh)	24.20	(7.10)	19.70	(5.78)	19.10	(5.60)	17.70	(5.19)
	Heating High	Capacity (Rated)	Btu/h	(kW)	154,000	(45.2)	178,000	(52.2)	204,000	(59.8)	258,000	(75.7)
		COP	W/W		4.11		3.69		3.64		3.53	
	Heating Low	Capacity	Btu/h	(kW)	109,000	(32.0)	129,000	(37.8)	150,000	(44.0)	182,000	(53.4)
		COP	W/W		2.78		2.27		2.34		2.15	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48) *3	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15) *4	
Cabinet Color (Munsell Code)					2.5Y 8/2							
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	76-5/32	(1934)	86-3/8	(2194)	96-5/8	(2454)	96-5/8	(2454)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHP072B31S YVAHP072B31S		Reference: YVAHP096B31S YVAHP072B31S		Reference: YVAHP096B31S YVAHP096B31S		Reference: YVAHP120B31S YVAHP120B31S	
	Width		in	(mm)								
	Depth		in	(mm)								
Weight	Net		lbs	(kg)	1080	(490)	1270	(576)	1460	(662)	1464	(664)
	Gross		lbs	(kg)	1173	(532)	1374	(623)	1574	(714)	1578	(716)
Connection Ratio	Total Indoor Unit Capacity		%		150 - 75		140 - 65		135 - 65		120 - 60	
	Max. (Recommendation) indoor units/system		-		36 (26)		39 (32)		43 (32)		48 (32)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube							
	Material		-		Cu-Al (Anti-corrosion)							
Compressor	Type		Inverter		DA65PHD×2		DA65PHD×2		DA65PHD×2		DA65PHD×2	
			Fixed Speed		-		E655DH×1		E655DH×2		E655DH×2	
	Motor Output (Pole)		kW (Pole)		7.26(6) 7.26(6)		4.8(6)+4.4(2) 7.26(6)		4.8(6)+4.4(2) 4.8(6)+4.4(2)		6.0(6)+4.4(2) 6.0(6)+4.4(2)	
	Start Method		-		Inverter							
	Operation Range		%		10 ~ 100		9 ~ 100		8 ~ 100		8 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V) ×4		40.8 (230V) 6		40.8 (230V) ×8		40.8 (230V) ×8	
Fan	Type		-		Propeller Fan							
	Motor Output (Pole)		kW (Pole)		0.49(8)×2		0.66(8)+0.49(8)		0.66(8)×2		0.91(8)×2	
	Quantity		Q'ty		2							
	Air Flow Rate		cfm	(m^3/min)	6178+6178	(175+175)	6884+6178	(195+175)	6884+6884	(195+195)	7413+7413	(210+210)
	External static pressure ****		in.WG	(Pa)	0 (0)							
	Drive				Direct drive							
Electrical	Min Circuit Amps		A		Reference: YVAHP072B31S YVAHP072B31S		Reference: YVAHP096B31S YVAHP072B31S		Reference: YVAHP096B31S YVAHP096B31S		Reference: YVAHP120B31S YVAHP120B31S	
	Recommended Fuse/Breaker Size		A									
	Maximum Fuse Size		A									
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		63	(58)	65	(60)	65	(60)	66	(60)
	Heating		dB(A)		63		65		65		66	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa) Over-current protection / Over-heat protection							
	Inverter		-									
	Compressor		-		Over-heat protection							
	PCB		-		Over-current protection							
Refrigerant	Type-Qty		-		R410A							
	Charge amount		lbs	(kg)	16.1+16.1	(7.3+7.3)	18.7+16.1	(8.5+7.3)	18.7+18.7	(8.5+8.5)	20.9+20.9	(9.5+9.5)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	1.6+1.6	(6.0+6.0)	2.1+1.6	(7.9+6.0)	2.1+2.1	(7.9+7.9)	2.1+2.1	(7.9+7.9)
Defrost Method			-		Reversed Refrigerant Cycle							
Main Refrigerant Piping (Heat Pump)	High/Low Pressure Gas Line		in	(mm)	1-1/8	(28.58)	1-3/8	(34.93)	1-3/8	(34.93)	1-3/8	(34.93)
	Liquid Line		in	(mm)	5/8	(15.88)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
208/230V HP (HEAT PUMP)

Heat pump units can either heat or cool spaces. YORK VRF heat pump units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

18-30 Ton Systems

Outdoor Unit 208/230V HP | 18-30 TON SYSTEMS

High Efficiency Configuration

18-30 Ton Systems	Type				Triple Unit Systems			
	Tonnage				18 Ton (6+6+6)		20 Ton (8+6+6)	
Model (combination)					YVAHP216B31S		YVAHP240B31S	
Model (individual)	Unit A				YVAHP072B31S		YVAHP096B31S	
	Unit B				YVAHP072B31S		YVAHP072B31S	
	Unit C				YVAHP072B31S		YVAHP072B31S	
Power Supply					208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	216,000	(63.6)	240,000	(70.3)
		Power input	kW		18.24		19.77	
		Current input	A (208V/230V)		54.9 / 49.8		59.6 / 54	
	Heating	Capacity (Nominal)	Btu/h	(kW)	243,000	(71.2)	270,000	(79.1)
		Power input	kW		17.79		19.19	
		Current input	A (208V/230V)		53.7 / 48.6		58.9 / 54.6	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	206,000	(60.4)	228,000	(66.9)
		EER	Btu/Wh	(W/W)	10.60	(3.11)	10.60	(3.11)
		IEER	Btu/Wh	(Wh/Wh)	19.20	(5.63)	20.30	(5.95)
	Heating High	Capacity (Rated)	Btu/h	(kW)	232,000	(68.1)	258,000	(75.7)
		COP	W/W		3.49		3.80	
	Heating Low	Capacity	Btu/h	(kW)	164,000	(48.1)	182,000	(53.4)
		COP	W/W		3.49		2.42	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)					2.5Y 8/2			
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	114-13/32	(2906)	124-21/32	(3166)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHP072B31S		Reference: YVAHP096B31S	
	Width		in	(mm)	YVAHP072B31S		YVAHP072B31S	
	Depth		in	(mm)	YVAHP072B31S		YVAHP072B31S	
Weight	Net		lbs	(kg)	1621	(735)	1810	(821)
	Gross		lbs	(kg)	1760	(798)	1960	(889)
Connection Ratio	Total Indoor Unit Capacity		%		150 - 70		150 - 70	
	Max. (Recommendation) indoor units/ system		-		54 (32)		60 (38)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube			
	Material		-		Cu-Al (Anti-corrosion)			
Compressor	Type		Inverter		DA65PHD×3		DA65PHD×3	
			Fixed Speed		-		E655DH×1	
	Motor Output (Pole)		kW (Pole)		7.26(6) 7.26(6) 7.26(6)		4.8(6)+4.4(2) 7.26(6) 7.26(6)	
	Start Method		-		Inverter			
	Operation Range		%		7 ~ 100		6 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V) ×6		40.8 (230V) x8	
Fan	Type		-		Propeller Fan			
	Motor Output (Pole)		kW (Pole)		0.49(8)×3		0.66(8)+0.49(8)×2	
	Quantity		Q'ty		3			
	Air Flow Rate		cfm	(m^3/min)	6178+6178 +6178	175+175 +175	6884+6178 +6178	195+175 +175
	External static pressure****		in.WG	(Pa)	0 (0)			
	Drive				Direct drive			
Electrical	Min Circuit Amps		A		Reference: YVAHP072B31S		Reference: YVAHP096B31S	
	Recommended Fuse/Breaker Size		A		YVAHP072B31S		YVAHP072B31S	
	Maximum Fuse Size		A		YVAHP072B31S		YVAHP072B31S	
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		65	(60)	66	(61)
	Heating		dB(A)		65		66	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)			
	Inverter		-		Over-current protection / Over-heat protection			
	Compressor		-		Over-heat protection			
	PCB		-		Over-current protection			
Refrigerant	Type-Qty		-		R410A			
	Charge amount		lbs	(kg)	16.1+16.1 +16.1	(7.3+7.3 +7.3)	18.7+16.1 +16.1	8.5+7.3 +7.3
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	1.6+1.6+1.6	6.0+6.0+6.0	2.1+1.6+1.6	7.9+6.0+6.0
Defrost Method			-		Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Pump)	High/Low Pressure Gas Line		in	(mm)	1-3/8	(34.93)	1-5/8	(41.28)
	Liquid Line		in	(mm)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

YORK VRF

Outdoor Unit 208/230V HP | 18-30 TON SYSTEMS *(continued)*

18-30 Ton Systems	Type					Triple Unit Systems					
	Tonnage					22 Ton (10+6+6)		24 Ton (10+8+6)		26 Ton (10+10+6)	
Model (combination)						YVAHP264B31S		YVAHP288B31S		YVAHP312B31S	
Model (individual)	Unit A					YVAHP120B31S		YVAHP120B31S		YVAHP120B31S	
	Unit B					YVAHP072B31S		YVAHP096B31S		YVAHP120B31S	
	Unit C					YVAHP072B31S		YVAHP072B31S		YVAHP072B31S	
Power Supply						208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)		264,000	(77.4)	288,000	(84.4)	312,000	(91.4)
		Power input	kW			22.73		24.26		27.22	
		Current input	A (208V/230V)			69.6 / 64.8		74.3 / 69.0		84.3 / 79.8	
	Heating	Capacity (Nominal)	Btu/h	(kW)		297,000	(87.0)	324,000	(95.0)	351,000	(102.9)
		Power input	kW			21.59		22.99		25.39	
		Current input	A (208V/230V)			66.1 / 61.1		71.3 / 67.1		78.5 / 73.6	
Efficiency Ratings **	Cooling	Capacity (Rated)	Btu/h	(kW)		252,000	(73.9)	274,000	(80.4)	296,000	(86.8)
		EER	Btu/Wh	(W/W)		10.30	(3.02)	10.00	(2.93)	9.60	(2.82)
		IEER	Btu/Wh	(Wh/Wh)		18.80	(5.51)	18.60	(5.46)	18.80	(5.51)
	Heating High	Capacity (Rated)	Btu/h	(kW)		280,000	(82.1)	308,000	(90.3)	334,000	(98.0)
		COP	W/W			3.61		3.70		3.56	
	Heating Low	Capacity	Btu/h	(kW)		200,000	(58.7)	216,000	(63.4)	236,000	(69.2)
		COP	W/W			2.37		2.42		2.37	
Cooling Operating Range**	Indoor		°F WB (°C WB)			59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)			14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)			59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)			-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)						2.5Y 8/2					
Outer Dimensions	Height		in	(mm)		68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)		124-21/32	(3166)	134-7/8	(3426)	134-7/8	(3426)
	Depth		in	(mm)		31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)		Reference: YVAHP120B31S YVAHP072B31S YVAHP072B31S		Reference: YVAHP120B31S YVAHP072B31S YVAHP072B31S		Reference: YVAHP120B31S YVAHP072B31S YVAHP072B31S	
	Width		in	(mm)							
	Depth		in	(mm)							
Weight	Net		lbs	(kg)		1813	(822)	2002	(908)	2004	(909)
	Gross		lbs	(kg)		1962	(890)	2163	(981)	2165	(982)
Connection Ratio	Total Indoor Unit Capacity		%			140 ~ 65		135 ~ 65		130 ~ 65	
	Max. (Recommendation) indoor units/ system		-			61 (38)		64 (38)		64 (38)	
Heat Exchanger	Type		-			Multi-Pass Cross-Finned Tube					
	Material		-			Cu-Al (Anti-corrosion)					
Compressor	Type		Inverter			DA65PHD×3		DA65PHD×3		DA65PHD×3	
			Fixed Speed			E655DH×1		E655DH×2		E655DH×2	
	Motor Output (Pole)		kW (Pole)			6.0(6)+4.4(2) 7.26(6) 7.26(6)		6.0(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6)		6.0(6)+4.4(2) 6.0(6)+4.4(2) 7.26(6)	
	Start Method		-			Inverter					
	Operation Range		%			6 ~ 100		6 ~ 100		6 ~ 100	
	Refrigeration Oil Type		-			FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty			40.8 (230V) ×8		40.8 (230V) x10		40.8 (230V) x10	
Fan	Type		-			Propeller Fan					
	Motor Output (Pole)		kW (Pole)			0.91(8)+0.49(8)×2		0.91(8)+0.66(8)+0.49(8)		0.91(8)×2+0.49(8)	
	Quantity		Q'ty			3					
	Air Flow Rate		cfm	(m^3/min)		7413+6178 +6178	210+175 +175	7413+6884 +6178	210+195 +175	7413+7413 +6178	210+210 +175
	External static pressure****		in.WG	(Pa)		0 (0)					
	Drive					Direct drive					
Electrical	Min Circuit Amps		A			Reference: YVAHP120B31S		Reference: YVAHP120B31S		Reference: YVAHP120B31S	
	Recommended Fuse/Breaker Size		A			YVAHP072B31S		YVAHP096B31S		YVAHP120B31S	
	Maximum Fuse Size		A			YVAHP072B31S		YVAHP072B31S		YVAHP072B31S	
Sound Pressure Level	Cooling (Night-Shift)		dB(A)			67	(61)	67	(62)	68	(62)
	Heating		dB(A)			67		67		68	
Protection devices	Cycle		-			High pressure switch at 601psi (4.15MPa)					
	Inverter		-			Over-current protection / Over-heat protection					
	Compressor		-			Over-heat protection					
	PCB		-			Over-current protection					
Refrigerant	Type-Qty		-			R410A					
	Charge amount		lbs	(kg)		20.9+16.1 +16.1	9.5+7.3 +7.3	20.9+18.7 +16.1	9.5+8.5 +7.3	20.9+20.9 +16.1	9.5+9.5 +7.3
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)		2.1+1.6+1.6	7.9+6.0+6.0	2.1+2.1+1.6	7.9+7.9+6.0	2.1+2.1+1.6	7.9+7.9+6.0
Defrost Method			-			Reversed Refrigerant Cycle					
Main Refrigerant Piping (Heat Pump)	High/Low Pressure Gas Line		in	(mm)		1-5/8	(41.28)	1-5/8	(41.28)	1-5/8	(41.28)
	Liquid Line		in	(mm)		3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit 208/230V HP | 18-30 TON SYSTEMS *(continued)*

18-30 Ton Systems	Type					Triple Unit Systems			
	Tonnage					28 Ton (10+10+8)		30 Ton (10+10+10)	
Model (combination)						YVAHP336B31LM		YVAHP360B31LM	
Model (individual)	Unit A					YVAHP120B31S		YVAHP120B31S	
	Unit B					YVAHP120B31S		YVAHP120B31S	
	Unit C					YVAHP096B31S		YVAHP120B31S	
Power Supply						208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)		336,000	(98.5)	360,000	(105.5)
		Power input	kW			28.75		31.71	
		Current input	A (208V/230V)			89.0/84.0		83.7/79.6	
	Heating	Capacity (Nominal)	Btu/h	(kW)		378,000	(110.8)	405,000	(118.7)
		Power input	kW			26.79		29.19	
		Current input	A (208V/230V)			99.0/94.8		90.9/ 86.1	
Efficiency Ratings **	Cooling	Capacity (Rated)	Btu/h	(kW)		320,000	(93.9)	342,000	(100.3)
		EER	Btu/Wh	(W/W)		10.50	(3.08)	10.20	(2.99)
		IEER	Btu/Wh	(Wh/Wh)		17.70	(5.19)	18.20	(5.34)
	Heating High	Capacity (Rated)	Btu/h	(kW)		344,000	(100.9)	366,000	(107.4)
		COP	W/W			3.51		3.35	
	Heating Low	Capacity	Btu/h	(kW)		266,000	(78.0)	268,000	(78.6)
		COP	W/W			2.12		2.05	
Cooling Operating Range**	Indoor		°F WB (°C WB)			59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)			14(-10) ~ 118(48) *3		14(-10) ~ 118(48) *3	
Heating Operating Range**	Indoor		°F DB (°C DB)			59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)			-4(-20) ~ 59(15) *4		-4(-20) ~ 59(15) *4	
Cabinet Color (Munsell Code)						2.5Y 8/2			
Outer Dimensions	Height		in	(mm)		68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)		144-21/32	(3674)	144-21/32	(3674)
	Depth		in	(mm)		31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)		Reference: YVAHP120B31S YVAHP120B31S YVAHP096B31S		Reference: YVAHP120B31S YVAHP120B31S YVAHP120B31S	
	Width		in	(mm)					
	Depth		in	(mm)					
Weight	Net		lbs	(kg)		2194	(995)	2196	(996)
	Gross		lbs	(kg)		2365	(1073)	2367	(1074)
Connection Ratio	Total Indoor Unit Capacity		%			120 ~ 60		120 ~ 60	
	Max. (Recommendation) indoor units/ system		-			64 (38)		64 (38)	
Heat Exchanger	Type		-			Multi-Pass Cross-Finned Tube			
	Material		-			Cu-Al (Anti-corrosion)			
Compressor	Type		Inverter			DA65PHD×3		DA65PHD×3	
			Fixed Speed			E655DH×3		E655DH×3	
	Motor Output (Pole)		kW (Pole)			6.0(6)+4.4(2) 6.0(6)+4.4(2) 4.8(6)+4.4(2)		6.0(6)+4.4(2) 6.0(6)+4.4(2) 6.0(6)+4.4(2)	
	Start Method		-			Inverter			
	Operation Range		%			5 ~ 100		5 ~ 100	
	Refrigeration Oil Type		-			FVC68D		FVC68D	
Crank Case Heater			W×Q'ty			40.8 (230V) ×12		40.8 (230V) ×12	
Fan	Type		-			Propeller Fan			
	Motor Output (Pole)		kW (Pole)			0.91(8)×2+0.66(8)		0.91(8)×3	
	Quantity		Q'ty			3			
	Air Flow Rate		cfm	(m^3/min)		7413+7413 +6884	(210+210 +195)	7413+7413 +7413	(210+210 +210)
	External static pressure****		in.WG	(Pa)		0 (0) *6			
	Drive					Direct drive			
Electrical	Min Circuit Amps		A			Reference: YVAHP120B31S YVAHP120B31S YVAHP096B31S		Reference: YVAHP120B31S YVAHP120B31S YVAHP120B31S	
	Recommended Fuse/Breaker Size		A						
	Maximum Fuse Size		A						
Sound Pressure Level	Cooling (Night-Shift)		dB(A)			68	(62)	69	(62)
	Heating		dB(A)			68		69	
Protection devices	Cycle		-			High pressure switch at 601psi (4.15MPa)			
	Inverter		-			Over-current protection / Over-heat protection			
	Compressor		-			Over-heat protection			
	PCB		-			Over-current protection			
Refrigerant	Type-Qty		-			R410A			
	Charge amount		lbs	(kg)		20.9+20.9+18.7	(9.5+9.5+8.5)	20.9+20.9+20.9	(9.5+9.5+9.5)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)		2.1+2.1+2.1	(7.9+7.9+7.9)	2.1+2.1+2.1	(7.9+7.9+7.9)
Defrost Method			-			Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Pump)	High/Low Pressure Gas Line		in	(mm)		1-5/8	(41.28)	1-5/8	(41.28)
	Liquid Line		in	(mm)		3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
208/230V HP (HEAT PUMP)

Heat pump units can either heat or cool spaces. YORK VRF heat pump units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

28-30 Ton Systems

Outdoor Unit 208/230V HP | 28-30 TON SYSTEMS

18-26 Ton Systems	Type				High Efficiency Quad Unit Systems			
	Tonnage				28 Ton (8+8+6+6)		30 Ton (10+8+6+6)	
Model (combination)					YVAHP336B31S		YVAHP360B31S	
Model (individual)	Unit A				YVAHP096B31S		YVAHP120B31S	
	Unit B				YVAHP096B31S		YVAHP096B31S	
	Unit C				YVAHP072B31S		YVAHP072B31S	
	Unit D				YVAHP072B31S		YVAHP072B31S	
Power Supply					208/230V/ 3PH 60Hz		208/230V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	336,000	(98.5)	360,000	(105.5)
		Power input	kW		27.38		30.34	
		Current input	A (208V/230V)		82.6 / 74.8		92.6 / 85.6	
	Heating	Capacity (Nominal)	Btu/h	(kW)	378,000	(110.8)	405,000	(118.7)
		Power input	kW		26.52		28.92	
		Current input	A (208V/230V)		82.0 / 76.8		89.2 / 83.3	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	320,000	(93.9)	342,000	(100.3)
		EER	Btu/Wh	(W/W)	11.10	(3.26)	9.50	(2.79)
		IEER	Btu/Wh	(Wh/Wh)	21.20	(6.22)	18.50	(5.43)
	Heating High	Capacity (Rated)	Btu/h	(kW)	360,000	(105.6)	386,000	(113.2)
		COP	W/W		3.87		3.88	
	Heating Low	Capacity	Btu/h	(kW)	268,000	(78.6)	284,000	83.3
		COP	W/W		2.60		2.46	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)					2.5Y 8/2			
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	173-5/32	(4398)	173-5/32	(4398)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHP096B31S YVAHP096B31S YVAHP072B31S YVAHP072B31S		Reference: YVAHP120B31S YVAHP096B31S YVAHP072B31S YVAHP072B31S	
	Width		in	(mm)				
	Depth		in	(mm)				
Weight	Net		lbs	(kg)	2540	(1152)	2542	(1153)
	Gross		lbs	(kg)	2747	(1246)	2750	(1247)
Connection Ratio	Total Indoor Unit Capacity		%		140 - 65		135 - 65	
	Max. (Recommendation) indoor units/ system		-		64 (38)		64 (38)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube			
	Material		-		Cu-Al (Anti-corrosion)			
Compressor	Type		Inverter		DA65PHD×4		DA65PHD×4	
			Fixed Speed		E655DH×2		E655DH×2	
	Motor Output (Pole)		kW (Pole)		4.8(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6) 7.26(6)		6.0(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6) 7.26(6)	
	Start Method		-		Inverter			
	Operation Range		%		5 ~ 100		5 ~ 100	
	Refrigeration Oil Type		-		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V)×12		40.8 (230V)×12	
Fan	Type		-		Propeller Fan			
	Motor Output (Pole)		kW (Pole)		0.66(8)×2+0.49(8)×2		0.91(8)+0.66(8)+0.49(8)×2	
	Quantity		Q'ty		4			
	Air Flow Rate		cfm	(m³/min)	6884+6884 +6178+6178	(195+195 +175+175)	7413+6884 +6884+6178	(210+195 +195+175)
	External static pressure****		in.WG	(Pa)	0 (0)			
	Drive				Direct drive			
Electrical	Min Circuit Amps		A		Reference: YVAHP096B31S YVAHP096B31S YVAHP072B31S YVAHP072B31S		Reference: YVAHP120B31S YVAHP096B31S YVAHP072B31S YVAHP072B31S	
	Recommended Fuse/Breaker Size		A					
	Maximum Fuse Size		A					
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		68	(63)	68	(63)
	Heating		dB(A)		68		68	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)			
	Inverter		-		Over-current protection / Over-heat protection			
	Compressor		-		Over-heat protection			
	PCB		-		Over-current protection			
Refrigerant	Type-Qty		-		R410A			
	Charge amount		lbs	(kg)	18.7+18.7 +16.1+16.1	(8.5+8.5 +7.3+7.3)	20.9+18.7 +16.1+16.1	(9.5+8.5 +7.3+7.3)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	2.1+2.1 +1.6+1.6	(7.9+7.9 +6.0+6.0)	2.1+2.1 +1.6+1.6	(7.9+7.9 +6.0+6.0)
Defrost Method			-		Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Pump)	High/Low Pressure Gas Line		in	(mm)	1-5/8	(41.28)	1-5/8	(41.28)
	Liquid Line		in	(mm)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
460V HP (HEAT PUMP)

Heat pump units can either heat or cool spaces. YORK VRF heat pump units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

6-10 Ton Systems

Outdoor Unit 460V HP | 6-10 TON SYSTEMS

6-10 Ton Systems	Type				Single Unit Systems					
	Tonnage				6 Ton		8 Ton		10 Ton	
Model					YVAHP072B41S		YVAHP096B41S		YVAHP120B41S	
Power Supply					460V/ 3PH 60Hz		460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	72,000	(21.1)	96,000	(28.1)	120,000	(35.2)
		Power input	kW		6.08		7.61		10.57	
		Current input	A		8.5		10.6		15.8	
	Heating	Capacity (Nominal)	Btu/Wh	(W/W)	81,000	(23.7)	108,000	(31.7)	135,000	(39.6)
		Power input	kW		5.93		7.33		9.73	
		Current input	A		8.3		11.1		14.4	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	69,000	(20.2)	92,000	(27.0)	114,000	(33.4)
		EER	Btu/Wh	(W/W)	15.30	(4.49)	13.10	(3.84)	11.20	(3.29)
		IEER	Btu/Wh	(Wh/Wh)	24.80	(7.27)	21.40	(6.28)	19.80	(5.81)
	Heating High	Capacity (Rated)	Btu/h	(kW)	76,000	(22.3)	103,000	(30.2)	129,000	(37.8)
		COP	W/W		4.14		3.88		3.66	
	Heating Low	Capacity	Btu/h	(kW)	55,000	(16.1)	76,000	(22.3)	89,000	(26.1)
		COP	W/W		2.48		2.31		2.25	
Cooling Operating Range**		Indoor	°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)	
		Outdoor	°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**		Indoor	°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)	
		Outdoor	°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)			-		2.5Y 8/2					
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width		in	(mm)	37-7/8	(962)	48-1/8	(1222)	48-1/8	(1222)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	74-1/4	(1886)	74-1/4	(1886)	74-1/4	(1886)
	Width		in	(mm)	40-5/8	(1032)	50-7/8	(1292)	50-7/8	(1292)
	Depth		in	(mm)	34-1/32	(864)	34-1/32	(864)	34-1/32	(864)
Weight	Net		lbs	(kg)	606	(275)	796	(361)	798	(362)
	Gross		lbs	(kg)	653	(296)	853	(387)	856	(388)
Connection Ratio	Total Indoor Unit Capacity		%		150 - 70		135 - 65		130 - 60	
	Max. (Recommendation) indoor units/system				18 (10)		21 (16)		25 (16)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube					
	Material		-		Cu-Al (Anti-corrosion)					
Compressor	Type		Inverter		DA65PHD×1		DA65PHD×1		DA65PHD×1	
			Fix Speed		-		E655DH×1		E655DH×1	
	Motor Output (Pole)		kW (Pole)		7.2 (6)		4.8 (6)+4.4 (2)		6.0 (6)+4.4 (2)	
	Start Method		-		inverter					
	Operation Range		%		20~100		16~100		15~100	
	Refrigeration Oil Type		-		FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V)×2		40.8 (230V)×4		40.8 (230V)×4	
Fan	Type		-		Propeller Fan		Propeller Fan		Propeller Fan	
	Motor Output (Pole)		kW (Pole)		0.49(8)		0.66(8)		0.91(8)	
	Quantity		Q'ty		1					
	Air Flow Rate		cfm	(m^3/min)	6178	(175)	6884	(195)	7413	(210)
	External static pressure***		in.WG	(Pa)	0 (0)					
	Drive		-		Direct drive					
Electrical	Min Circuit Amps		A		24		28		34	
	Recommended Fuse/Breaker Size		A		40					
	Maximum Fuse Size		A		40					
Sound Pressure Level *6	Cooling (Night-Shift)		dB(A)		60	(55)	62	(57)	64	(57)
	Heating		dB(A)		60		62		64	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)					
	Inverter		-		Over-current protection Over-heat protection					
	Compressor		-		Over-heat protection					
	PCB		-		Over-current protection					
Refrigerant	Type		-		R410A					
	Charge amount		lbs	(kg)	16.1	(7.3)	18.7	(8.5)	20.9	(9.5)
Refrigeration Oil	Charge amount		gal/Unit	(kg/Unit)	1.6	(6.0)	2.1	(7.9)	2.1	(7.9)
Defrost Method			-		Reversed Refrigerant Cycle					
Main Refrigerant Piping (Heat Pump)	High/Low Pressure Gas Line		in	(mm)	1-1/8	(28.58)	1-1/8	(28.58)	1-1/8	(28.58)
	Liquid Line		in	(mm)	1/2	(12.7)	1/2	(12.7)	1/2	(12.7)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** External static pressure can be changed via DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
460V HP (HEAT PUMP)

Heat pump units can either heat or cool spaces. YORK VRF heat pump units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

12-20 Ton Systems

Outdoor Unit 460V HP | 12-20 TON SYSTEMS

12-20 Ton Systems	Type				Twin Unit Systems							
	Tonnage				12 Ton (6+6)		14 Ton (8+6)		16 Ton (8+8)		20 Ton (10+10)	
Model (combination)					YVAHP144B41S		YVAHP168B41S		YVAHP192B41S		YVAHP240B41LM	
Model (individual)	Unit A				YVAHP072B41S		YVAHP096B41S		YVAHP096B41S		YVAHP120B41S	
	Unit B				YVAHP072B41S		YVAHP072B41S		YVAHP096B41S		YVAHP120B41S	
Power Supply					460V/ 3PH 60Hz		460V/ 3PH 60Hz		460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	144,000	(42.2)	168,000	(49.2)	192,000	(56.3)	240,000	(70.3)
		Power input	kW		12.16		13.69		15.22		21.14	
		Current input	A		17.0		19.1		21.2		31.6	
	Heating	Capacity (Nominal)	Btu/h	(kW)	162,000	(47.5)	189,000	(55.4)	216,000	(63.3)	270,000	(79.1)
		Power input	kW		11.86		13.26		14.66		19.46	
		Current input	A		16.6		19.4		22.2		28.8	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	320,000	(40.5)	160,000	(46.9)	182,000	(53.4)	228,000	(66.9)
		EER	Btu/Wh	(W/W)	14.30	(4.19)	10.80	(3.17)	10.60	(3.11)	10.50	(3.08)
		IEER	Btu/Wh	(W/W)	23.80	(6.98)	19.40	(5.69)	18.60	(5.46)	17.40	(5.10)
	Heating High	Capacity (Rated)	Btu/h	(kW)	154,000	(45.2)	178,000	(52.2)	204,000	(59.8)	258,000	(75.7)
		COP	W/W		4.04		3.51		3.53		3.53	
	Heating Low	Capacity	Btu/h	(kW)	109,000	(32.0)	129,000	(37.8)	150,000	(44.0)	182,000	(53.4)
		COP	W/W		2.64		2.16		2.26		2.11	
Cooling Operating Range**	Indoor		°F WB	(°C WB)	59(15)~73(23)		59(15)~73(23)		59(15)~73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB	(°C DB)	14(-10)~118(48)		14(-10)~118(48)		14(-10)~118(48)		14(-10) ~ 118(48) *3	
Heating Operating Range**	Indoor		°F DB	(°C DB)	59(15)~80(27)		59(15)~80(27)		59(15)~80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB	(°C WB)	-4(-20)~59(15)		-4(-20)~59(15)		-4(-20)~59(15)		-4(-20) ~ 59(15) *4	
Cabinet Color (Munsell Code)			–		2.5Y 8/2							
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	76-5/32	(1934)	86-3/8	(2194)	96-5/8	(2454)	96-5/8	(2454)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHP072B41S YVAHP072B41S		Reference: YVAHP096B41S YVAHP072B41S		Reference: YVAHP096B41S YVAHP096B41S		Reference: YVAHP120B41S YVAHP120B41S	
	Width		in	(mm)								
	Depth		in	(mm)								
Weight	Net		lbs	(kg)	1213	(550)	1402	(636)	1592	(722)	1596	(724)
	Gross		lbs	(kg)	1305	(592)	1506	(683)	1707	(774)	1712	(776)
Connection Ratio	Total Indoor Unit Capacity		%		150 - 75		140 - 65		135 - 65		120 - 60	
	Max. (Recommendation) indoor units/system				36 (26)		39 (32)		43 (32)		48 32	
Heat Exchanger	Type		–		Multi-Pass Cross-Finned Tube							
	Material		–		Anti-corrosion/Cu-Al							
Compressor	Type		Inverter		DA65PHD×2		DA65PHD×2		DA65PHD×2		DA65PHD×2	
			Fix Speed		-		E655DH×1		E655DH×2		DA65PHC×2	
	Motor Output (Pole)		kW (Pole)		7.26(6) 7.26(6)		4.8 (6)+4.4(2) 7.26(6)		4.8 (6)+4.4(2) 4.8 (6)+4.4(2)		6.0(6)+4.4(2) 6.0(6)+4.4(2)	
	Start Method		–		inverter							
	Operation Range		%		10~100		9~100		8~100		8 ~100	
	Refrigeration Oil Type		–		FVC68D		FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V)×4		40.8 (230V)×6		40.8 (230V)×8		40.8 (230V)×8	
Fan	Type		–		Propeller Fan							
	Motor Output (Pole)		kW (Pole)		0.49(8)x2		0.66(8)+0.49(8)		0.66(8)×2		0.91(8)×2	
	Quantity		Q'ty		2							
	Air Flow Rate		cfm	(m^3/min)	6178+6178	(175+175)	6884+6178	(195+175)	6884+6884	(195+195)	7413+7413	(210+210)
	External static pressure****		in.WG	(Pa)	0 (0)						0 (0)*6	
	Drive		–		Direct drive							
Electrical	Min Circuit Amps		A		Reference: YVAHP072B41S YVAHP072B41S		Reference: YVAHP096B41S YVAHP072B41S		Reference: YVAHP096B41S YVAHP096B41S		Reference: YVAHP120B41S YVAHP120B41S	
	Recommended Fuse/Breaker Size		A									
	Maximum Fuse Size		A									
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		63	(58)	65	(60)	65	(60)	66	(60)
	Heating		dB(A)		63		65		65			
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)							
	Inverter		-		Over-current protection Over-heat protection							
	Compressor		-		Over-heat protection							
	PCB		-		Over-current protection							
Refrigerant	Type-Qty		-		R410A							
	Charge amount		lbs	(kg)	16.1+16.1	(7.3+7.3)	18.7+16.1	(8.5+7.3)	18.7+18.7	(8.5+8.5)	20.9+20.9	(9.5+9.5)
Refrigeration Oil	Charge amount		gal/Unit	(kg/Unit)	1.6+1.6	(6.0+6.0)	2.1+1.6	(7.9+6.0)	2.1+2.1	(7.9+7.9)	2.1+2.1	(7.9+7.9)
Defrost Method			-		Reversed Refrigerant Cycle							
Main Refrigerant Piping (Heat Pump)	High/Low Pressure Gas Line		in	(mm)	1-1/8	(28.58)	1-3/8	(34.93)	1-3/8	(34.93)	1-3/8	(34.93)
	Liquid Line		in	(mm)	5/8	(15.88)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
460V HP (HEAT PUMP)

Heat pump units can either heat or cool spaces. YORK VRF heat pump units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

18-30 Ton Systems

Outdoor Unit 460V HP | 18-30 TON SYSTEMS

High Efficiency Configuration

18-30 Ton Systems	Type				Triple Unit Systems			
	Tonnage				18 Ton (6+6+6)		20 Ton (8+6+6)	
Model (combination)					YVAHP216B41S		YVAHP240B41S	
Model (individual)	Unit A				YVAHP072B41S		YVAHP096B41S	
	Unit B				YVAHP072B41S		YVAHP072B41S	
	Unit C				YVAHP072B41S		YVAHP072B41S	
Power Supply					460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	216,000	(63.3)	240,000	(70.3)
		Power input	kW		18.24		19.77	
		Current input	A		25.5		27.6	
	Heating	Capacity (Nominal)	Btu/h	(kW)	243,000	(71.2)	270,000	(79.1)
		Power input	kW		17.79		19.19	
		Current input	A		24.9		27.7	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	320,000	(60.4)	228,000	(66.9)
		EER	Btu/Wh	(W/W)	10.60	(3.11)	10.20	(2.99)
		IEER	Btu/Wh	(W/W)	18.80	(5.51)	19.80	(5.81)
	Heating High	Capacity (Rated)	Btu/h	(kW)	232,000	(68.1)	258,000	(75.7)
		COP	W/W		3.32		3.68	
	Heating Low	Capacity	Btu/h	(kW)	164,000	(48.1)	182,000	(53.4)
		COP	W/W		2.23		2.32	
Cooling Operating Range**	Indoor		°F WB (°C WB)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)			–		2.5Y 8/2			
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	114-13/32	(2906)	124-21/32	(3166)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference: YVAHP072B41S YVAHP072B41S YVAHP072B41S		Reference: YVAHP096B41S YVAHP072B41S YVAHP072B41S	
	Width		in	(mm)				
	Depth		in	(mm)				
Weight	Net		lbs	(kg)	1819	(825)	2009	(911)
	Gross		lbs	(kg)	1958	(888)	2159	(979)
Connection Ratio	Total Indoor Unit Capacity		%		150 - 70		150 - 70	
	Max. (Recommendation) indoor units/system				54 (32)		60 (38)	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube			
	Material		-		Anti-corrosion/Cu-Al			
Compressor	Type		Inverter		DA65PHD×3		DA65PHD×3	
			Fix Speed		-		E655DH×1	
	Motor Output (Pole)		kW (Pole)		7.26 (6) 7.26 (6) 7.26 (6)		4.8 (6)+4.4 (2) 7.26 (6) 7.26 (6)	
	Start Method		–		Inverter			
	Operation Range		%		7 ~ 100		6 ~ 100	
	Refrigeration Oil Type		–		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V) ×6		40.8 (230V) ×8	
Fan	Type		–		Propeller Fan		Propeller Fan	
	Motor Output (Pole)		kW (Pole)		0.49(8)×3		0.66(8)+0.49(8)×2	
	Quantity		Q'ty		3			
	Air Flow Rate		cfm	(m^3/min)	6178+6178+61	(175+175+175)	6884+6178+6178	(195+175+175)
	External static pressure****		in.WG	(Pa)	0 (0)			
	Drive		–		Direct drive			
Electrical	Min Circuit Amps		A		Reference: YVAHP072B41S YVAHP072B41S YVAHP072B41S		Reference: YVAHP096B41S YVAHP072B41S YVAHP072B41S	
	Recommended Fuse/Breaker Size		A					
	Maximum Fuse Size		A					
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		65	(60)	66	(61)
	Heating		dB(A)		65		66	
Protection devices	Cycle		–		High pressure switch at 601psi (4.15MPa)			
	Inverter		–		Over-current protection Over-heat protection			
	Compressor		–		Over-heat protection			
	PCB		–		Over-current protection			
Refrigerant	Type-Qty		–		R410A			
	Charge amount		lb	(kg)	16.1+16.1+16.1	(7.3+7.3+7.3)	18.7+16.1+16.1	(8.5+7.3+7.3)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	1.6+1.6+1.6	(6.0+6.0+6.0)	2.1+1.6+1.6	(7.9+6.0+6.0)
Defrost Method			–		Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Pump)	Gas Line (High/Low)		in	(mm)	1-3/8	(34.93)	1-5/8	(41.28)
	Liquid Line		in	(mm)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

YORK VRF

Outdoor Unit 460V HP | 18-30 TON SYSTEMS *(continued)*

18-30 Ton Systems	Type					Triple Unit Systems					
	Tonnage					22 Ton (10+6+6)		24 Ton (10+8+6)		26 Ton (10+10+6)	
Model (combination)						YVAHP264B41S		YVAHP288B41S		YVAHP312B41S	
Model (individual)	Unit A					YVAHP120B41S		YVAHP120B41S		YVAHP120B41S	
	Unit B					YVAHP072B41S		YVAHP096B41S		YVAHP120B41S	
	Unit C					YVAHP072B41S		YVAHP072B41S		YVAHP072B41S	
Power Supply						460V/ 3PH 60Hz		460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h		(kW)	264,000	(77.4)	288,000	(84.4)	312,000	(91.4)
		Power input	A			22.73		24.26		27.22	
		Current input	kW			32.8		34.9		40.1	
	Heating	Capacity (Nominal)	A			297,000	(87.0)	324,000	(95.0)	351,000	(102.9)
		Power input	kW			21.59		22.99		25.39	
		Current input	A			31.0		33.8		37.1	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h		(kW)	252,000	(73.9)	274,000	(80.4)	296,000	(86.8)
		EER	Btu/Wh		(W/W)	10.00	(2.93)	9.50	(2.79)	9.50	(2.79)
		IEER	Btu/Wh		(Wh/Wh)	18.20	(5.34)	17.70	(5.19)	17.90	(5.25)
	Heating High	Capacity (Rated)	Btu/h		(kW)	280,000	(82.1)	308,000	(90.3)	334,000	(98.0)
		COP	W/W			3.50		3.58		3.45	
	Heating Low	Capacity	Btu/h		(kW)	200,000	(58.7)	216,000	(63.4)	236,000	(69.2)
		COP	W/W			2.30		2.34		2.30	
Cooling Operating Range**	Indoor		°F WB (°C WB)			59(15) ~ 73(23)		59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)			14(-10) ~ 118(48)		14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB (°C DB)			59(15) ~ 80(27)		59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)			-4(-20) ~ 59(15)		-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)			–			2.5Y 8/2					
Outer Dimensions	Height		in		(mm)	68-1/8	(1730)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in		(mm)	124-21/32	(3166)	134-7/8	(3426)	134-7/8	(3426)
	Depth		in		(mm)	31-7/32	(793)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in		(mm)	Reference: YVAHP120B41S YVAHP072B41S YVAHP072B41S		Reference: YVAHP120B41S YVAHP096B41S YVAHP072B41S		Reference: YVAHP120B41S YVAHP120B41S YVAHP072B41S	
	Width		in		(mm)						
	Depth		in		(mm)						
Weight	Net		lbs		(kg)	2011	(912)	2201	(998)	2203	(999)
	Gross		lbs		(kg)	2161	(980)	2362	(1071)	2364	(1072)
Connection Ratio	Total Indoor Unit Capacity		%			140 ~ 65		135 ~ 65		130 ~ 65	
	Max. (Recommendation) indoor units/system					61 (38)		64 (38)		64 (38)	
Heat Exchanger	Type					Multi-Pass Cross-Finned Tube					
	Material					Anti-corrosion/Cu-Al					
Compressor	Type		Inverter			DA65PHD×3		DA65PHD×3		DA65PHD×3	
			Fix Speed			E655DH×1		E655DH×2		E655DH×2	
	Motor Output (Pole)		kW (Pole)			6.0(6)+4.4(2) 7.26(6) 7.26(6)		6.0(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6)		6.0(6)+4.4(2) 6.0(6)+4.4(2) 7.26(6)	
	Start Method		–			Inverter					
	Operation Range		%			6~100		6~100		6~100	
	Refrigeration Oil Type		–			FVC68D		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty			40.8 (230V) ×10		40.8 (230V) ×10		40.8 (230V) ×10	
Fan	Type		–			Propeller Fan					
	Motor Output (Pole)		kW (Pole)			0.91(8)+0.49(8)×2		0.91(8)+0.66(8)+0.49(8)		0.91(8)×2+0.49(8)	
	Quantity		Q'ty			3					
	Air Flow Rate		cfm		(m^3/min)	7413+6178+6178	(210+175+175)	7413+6884+6178	(210+195+175)	7413+7413+6178	(210+210+175)
	External static pressure****		in.WG		(Pa)	0 (0)					
	Drive		–			Direct drive					
Electrical	Min Circuit Amps		A			Reference: YVAHP120B41S YVAHP072B41S YVAHP072B41S		Reference: YVAHP120B41S YVAHP096B41S YVAHP072B41S		Reference: YVAHP120B41S YVAHP120B41S YVAHP072B41S	
	Recommended Fuse/Breaker Size		A								
	Maximum Fuse Size		A								
Sound Pressure Level	Cooling (Night-Shift)		dB(A)			67	(61)	67	(62)	68	(62)
	Heating		dB(A)			67		67		68	
Protection devices	Cycle		–			High pressure switch at 601psi (4.15MPa)					
	Inverter		–			Over-current protection Over-heat protection					
	Compressor		–			Over-heat protection					
	PCB		–			Over-current protection					
Refrigerant	Type		–			R410A					
	Charge amount		lbs		(kg)	20.9+16.1+16.1	(9.5+7.3+7.3)	20.9+18.7+16.1	(9.5+8.5+7.3)	20.9+20.9+16.1	(9.5+9.5+7.3)
Refrigeration Oil	Charge amount		gal/Unit		(l/Unit)	2.1+1.6+1.6	(7.9+6.0+6.0)	2.1+1.6+1.6	(7.9+7.9+6.0)	2.1+1.6+1.6	(7.9+7.9+6.0)
Defrost Method			–			Reversed Refrigerant Cycle					
Main Refrigerant Piping (Heat Pump)	Gas Line (High/Low)		in		(mm)	1-5/8	(41.28)	1-5/8	(41.28)	1-5/8	(41.28)
	Liquid Line		in		(mm)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit 460V HP | 18-30 TON SYSTEMS *(continued)*

18-30 Ton Systems	Type					Triple Unit Systems			
	Tonnage					28 Ton (10+10+8)		30 Ton (10+10+10)	
Model (combination)						YVAHP336B41LM		YVAHP360B41LM	
Model (individual)	Unit A					YVAHP120B41S		YVAHP120B41S	
	Unit B					YVAHP120B41S		YVAHP120B41S	
	Unit C					YVAHP096B41S		YVAHP120B41S	
Power Supply						460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)		336,000	(98.5)	360,000	(105.5)
		Power input	kW			28.75		31.71	
		Current input	A			42.2		47.4	
	Heating	Capacity (Nominal)	Btu/h	(kW)		378,000	(110.8)	405,000	(118.7)
		Power input	kW			26.79		29.19	
		Current input	A			39.9		43.2	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)		320,000	(93.9)	342,000	(100.3)
		EER	Btu/Wh	(W/W)		10.00	(2.93)	9.70	(2.85)
		IEER	Btu/Wh	(W/W)		17.70	(5.19)	17.50	(5.13)
	Heating High	Capacity (Rated)	Btu/h	(kW)		344,000	(100.9)	366,000	(107.4)
		COP	W/W			3.51		3.35	
	Heating Low	Capacity	Btu/h	(kW)		266,000	(78.0)	268,000	(78.6)
		COP	W/W			2.10		2.01	
Cooling Operating Range**	Indoor		°F WB (°C WB)			59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB (°C DB)			14(-10) ~ 118(48) *3		14(-10) ~ 118(48) *3	
Heating Operating Range**	Indoor		°F DB (°C DB)			59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB (°C WB)			-4(-20) ~ 59(15) *4		-4(-20) ~ 59(15) *4	
Cabinet Color (Munsell Code)			-			2.5Y 8/2			
Outer Dimensions	Height		in	(mm)		68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)		144-21/32	(3674)	144-21/32	(3674)
	Depth		in	(mm)		31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)		Reference: YVAHP072B41S		Reference: YVAHP096B41S	
	Width		in	(mm)		YVAHP072B41S		YVAHP072B41S	
	Depth		in	(mm)		YVAHP072B41S		YVAHP072B41S	
Weight	Net		lbs	(kg)		2392	(1085)	2394	(1086)
	Gross		lbs	(kg)		2565	(1163)	2568	(1164)
Connection Ratio	Total Indoor Unit Capacity		%			120 - 60		120 - 60	
	Max. (Recommendation) indoor units/system					64 (38)		64 (38)	
Heat Exchanger	Type		-			Multi-Pass Cross-Finned Tube			
	Material		-			Anti-corrosion/Cu-Al			
Compressor	Type		Inverter			DA65PHD×3		DA65PHD×3	
			Fix Speed			DA65PHC×3		DA65PHC×3	
	Motor Output (Pole)		kW (Pole)			6.0(6)+4.4(2) 6.0(6)+4.4(2) 4.8(6)+4.4(2)		6.0(6)+4.4(2) 6.0(6)+4.4(2) 6.0(6)+4.4(2)	
	Start Method		-			Inverter			
	Operation Range		%			5 ~ 100		5 ~ 100	
	Refrigeration Oil Type		-			FVC68D		FVC68D	
Crank Case Heater			W×Q'ty			40.8 (230V) ×12		40.8 (230V) ×12	
Fan	Type		-			Propeller Fan			
	Motor Output (Pole)		kW (Pole)			0.91(8)×2+0.66(8)		0.91(8)×3	
	Quantity		Q'ty			3			
	Air Flow Rate		cfm	(m^3/min)		7413+7413+6884	(210+210+195)	7413+7413+7413	(210+210+210)
	External static pressure****		in.WG	(Pa)		0 (0) *6			
	Drive		-			Direct drive			
Electrical	Min Circuit Amps		A			Reference: YVAHP120B41S		Reference: YVAHP120B41S	
	Recommended Fuse/Breaker Size		A			YVAHP120B41S		YVAHP120B41S	
	Maximum Fuse Size		A			YVAHP096B41S		YVAHP120B41S	
Sound Pressure Level	Cooling (Night-Shift)		dB(A)			68	(62)	69	(62)
	Heating		dB(A)			68		69	
Protection devices	Cycle		-			High pressure switch at 601psi (4.15MPa)			
	Inverter		-			Over-current protection Over-heat protection			
	Compressor		-			Over-heat protection			
	PCB		-			Over-current protection			
Refrigerant	Type-Qty		-			R410A			
	Charge amount		lb	(kg)		20.9+20.9+18.7	(9.5+9.5+8.5)	20.9+20.9+20.9	(9.5+9.5+9.5)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)		2.1+2.1+2.1	(7.9+7.9+7.9)	2.1+2.1+2.1	(7.9+7.9+7.9)
Defrost Method			-			Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Pump)	Gas Line (High/Low)		in	(mm)		1-5/8	(41.28)	1-5/8	(41.28)
	Liquid Line		in	(mm)		3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Outdoor Unit
460V HP (HEAT PUMP)

Heat pump units can either heat or cool spaces. YORK VRF heat pump units offer an extended operating temperature range: outdoor ambient temperature as low as 14° F (-10° C) in the cooling mode and as low as -4° F (-20° C) in the heating mode.

28-30 Ton Systems

Outdoor Unit 460V HP | 28-30 TON SYSTEMS

28-30 Ton Systems	Type				High Efficiency Quad Unit Systems			
	Tonnage				28 Ton (8+8+6+6)		30 Ton (10+8+6+6)	
Model (combination)					YVAHP336B41S		YVAHP360B41S	
Model (individual)	Unit A				YVAHP096B41S		YVAHP120B41S	
	Unit B				YVAHP096B41S		YVAHP096B41S	
	Unit C				YVAHP072B41S		YVAHP072B41S	
	Unit D				YVAHP072B41S		YVAHP072B41S	
Power Supply					460V/ 3PH 60Hz		460V/ 3PH 60Hz	
Capacity (Nominal)	Cooling	Capacity (Nominal)	Btu/h	(kW)	336,000	(98.5)	360,000	(105.5)
		Power input	kW		27.38		30.34	
		Current input	A		38.2		43.4	
	Heating	Capacity (Nominal)	Btu/h	(kW)	378,000	(110.8)	405,000	(118.7)
		Power input	kW		26.52		28.92	
		Current input	A		38.8		42.1	
Efficiency Ratings *	Cooling	Capacity (Rated)	Btu/h	(kW)	320,000	(93.9)	342,000	(100.3)
		EER	Btu/Wh	(W/W)	10.50	(3.08)	9.50	(2.79)
		IEER	Btu/Wh	(Wh/Wh)	20.20	(5.93)	17.50	(5.13)
	Heating High	Capacity (Rated)	Btu/h	(kW)	360,000	(105.6)	386,000	(113.2)
		COP	W/W		3.68		3.68	
	Heating Low	Capacity	Btu/h	(kW)	268,000	(78.6)	284,000	83.3
		COP	W/W		2.52		2.36	
Cooling Operating Range**	Indoor		°F WB	(°C WB)	59(15) ~ 73(23)		59(15) ~ 73(23)	
	Outdoor		°F DB	(°C DB)	14(-10) ~ 118(48)		14(-10) ~ 118(48)	
Heating Operating Range**	Indoor		°F DB	(°C DB)	59(15) ~ 80(27)		59(15) ~ 80(27)	
	Outdoor		°F WB	(°C WB)	-4(-20) ~ 59(15)		-4(-20) ~ 59(15)	
Cabinet Color (Munsell Code)			–		2.5Y 8/2			
Outer Dimensions	Height		in	(mm)	68-1/8	(1730)	68-1/8	(1730)
	Width***		in	(mm)	173-5/32	(4398)	173-5/32	(4398)
	Depth		in	(mm)	31-7/32	(793)	31-7/32	(793)
Package Dimensions	Height		in	(mm)	Reference:		Reference:	
	Width		in	(mm)	YVAHP096B41S YVAHP096B41S		YVAHP120B41S YVAHP096B41S	
	Depth		in	(mm)	YVAHP072B41S YVAHP072B41S		YVAHP072B41S YVAHP072B41S	
Weight	Net		lbs	(kg)	2805	(1272)	2807	(1273)
	Gross		lbs	(kg)	3012	(1366)	3014	(1367)
Connection Ratio	Total Indoor Unit Capacity		%		140 - 65		135 - 65	
	Max. (Recommendation) indoor units/system				64 (38)		64 (38)	
Heat Exchanger	Type		–		Multi-Pass Cross-Finned Tube			
	Material		–		Anti-corrosion/Cu-Al			
Compressor	Type		Inverter		DA65PHD×4		DA65PHD×4	
			Fixed Speed		E655DH×2		E655DH×2	
	Motor Output (Pole)		kW (Pole)		4.8(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6) 7.26(6)		6.0(6)+4.4(2) 4.8(6)+4.4(2) 7.26(6) 7.26(6)	
	Start Method		–		Inverter			
	Operation Range		%		5~100		5~100	
	Refrigeration Oil Type		–		FVC68D		FVC68D	
Crank Case Heater			W×Q'ty		40.8 (230V)×12		40.8 (230V)×12	
Fan	Type		–		Propeller Fan			
	Motor Output (Pole)		kW (Pole)		0.66(8)×2+0.49(8)×2		0.91(8)+0.66(8)+0.49(8)×2	
	Quantity		Q'ty		4			
	Air Flow Rate		cfm	(m^3/min)	6884+6884+6178+6178	(195+195+175+175)	7413+6884+6884+6178	(210+195+195+175)
	External static pressure****		in.WG	(Pa)	0 (0)			
	Drive		–		Direct drive			
Electrical	Min Circuit Amps		A		Reference:		Reference:	
	Recommended Fuse/Breaker Size		A		YVAHP096B41S YVAHP096B41S		YVAHP120B41S YVAHP096B41S	
	Maximum Fuse Size		A		YVAHP072B41S YVAHP072B41S		YVAHP072B41S YVAHP072B41S	
Sound Pressure Level	Cooling (Night-Shift)		dB(A)		68	(63)	68	(63)
	Heating		dB(A)		68		68	
Protection devices	Cycle		–		High pressure switch at 601psi (4.15MPa)			
	Inverter		–		Over-current protection Over-heat protection			
	Compressor		–		Over-heat protection			
	PCB		–		Over-current protection			
Refrigerant	Type-Qty				R410A			
	Charge amount		lbs	(kg)	18.7+18.7+16.1+16.1	(8.5+8.5+7.3+7.3)	20.9+18.7+16.1+16.1	(9.5+8.5+7.3+7.3)
Refrigeration Oil	Charge amount		gal/Unit	(l/Unit)	2.1+2.1+1.6+1.6	(7.9+7.9+6.0+6.0)	2.1+2.1+1.6+1.6	(7.9+7.9+6.0+6.0)
Defrost Method			–		Reversed Refrigerant Cycle			
Main Refrigerant Piping (Heat Pump)	Gas Line (High/Low)		in	(mm)	1-5/8	(41.28)	1-5/8	(41.28)
	Liquid Line		in	(mm)	3/4	(19.05)	3/4	(19.05)

* Rating conditions are based on the AHRI 1230 test standard. See www.ahrinet.org for more information.
** For more detailed operation ranges, please consult YORK sales team or refer to product manuals.
*** The table shows an example where there is 7/8in.(22mm) clearance between the base units.
**** External static pressure can be changed using the DSW setting 0.24in.W.G.(60Pa).

Optional Parts & Accessories

Change-Over Box

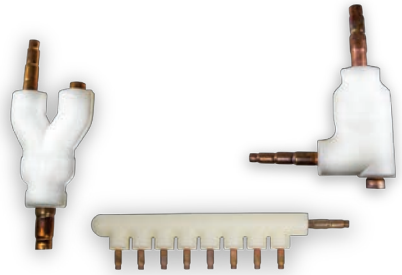
Piping Kits

Accessories

Change-Over Box

Change-Over Box Model				COBS048B21S		COBS096B21S	
Power Supply				**AC 1Phase, 208/230V, 60Hz**			
Power Consumption		W		20		20	
Connectable Indoor Unit Total Capacity		more than 2 Units	MBH	≤41		42 – 71	
		1 Unit	MBH	≤48		49 – 96	
Number of Connectable Indoor Units				1-7		1-8	
Outer Dimensions	Height	in.	(mm)	7-17/32	(191)	7-17/32	(191)
	Width	in.	(mm)	11-27/32	(301)	11-27/32	(301)
	Depth	in.	(mm)	8-7/16	(214)	8-7/16	(214)
Net Weight		lbs.	(kg)	15	(7)	15	(7)
Refrigerant		–		R410A			
Min Circuit Amps		A		0.1		0.1	
Recommended Fuse/Breaker Size		A		15		15	
Maximum Fuse Size		A		15		15	
Refrigerant Piping (from Indoor Unit)	Gas Line (Low Pressure)	in.	(mm)	3/4	(19.05)	3/4	(19.05)
	Gas Line (High/Low Pressure)	in.	(mm)	5/8	(15.88)	5/8	(15.88)
	Liquid Line	in.	(mm)	–		–	
Refrigerant Piping (from Outdoor Unit)	Gas Line	in.	(mm)	5/8	(15.88)	3/4	(19.0)
	Liquid Line	in.	(mm)	–		–	

Change Over Box



Selection software tool indicates which piping kits are needed for your design

VRF Accessories

Unit Type	Accessory	Description
Outdoor Units	Drain Adapter	For connection of field supplied drain pipe to drain pan
	Protection Net	For protection of outdoor unit heat exchanger
	Snow Protection Hood	Hood for protecting the OU air inlet/outlet from snow/hail
	3-Pin Connector Cable	Kit (with 5 sets of 3P Connectors) that provides remote start/stop capability (binary input) to IU and operating status (binary input) of IU functions.
	Relay and 3-Pin Connector Kit	Relay and 3 Pin Connector Kit used for input/output signals (ON/OFF, mode, alarm) between central controller and IU
	Air Flow Guide	Louvers for direction of outlet air
	Wind Guard	For protecting outlet air from strong wind
	Wind Prevention Tool	For preventing the OU to tip over
	Toppling Prevention Tool	For preventing the OU to tip over, when Snow Protection Hoods are used
Ducted Indoor Units	3-Pin Connector Cable	Kit (with 5 sets of 3P Connectors) that provides remote start/stop capability (binary input) to IU and operating status (binary input) of IU functions.
	Relay and 3-Pin Connector Kit	Relay and 3 Pin Connector Kit used for input/output signals (ON/OFF, mode, alarm) between central controller and IU
	Remote Temperature Sensor	Remote air temperature sensor
	Air Filter	Washable air filter with mounting flange
Non-Ducted Indoor Units	Anti-bacterial Air Filter	Anti-bacterial air filter
	Filter Box	Mounting box for Anti-bacterial Air Filter
	Air Outlet Shutter Plate	Plate for blocking of air outlet
	Fresh Air Intake Kit	Kit for connection of outside air to the IU
	T-Tube Connecting Kit	Kit for connection of outside air duct to the IU. Requires Fresh Air Intake Kit
	Duct Adapter	Kit for connection of outside air duct to the IU
	Panel with Motion / Radiant Sensors	Air panel with motion and radiation sensor. Replaces standard panel
	Motion Sensor Kit	Kit for detection of motion in the area
	Grille for Front Discharge	Grille used for front air outlet from IU
	Strainer Kit	For IU refrigerant circuit
	IR Receiver Kit	Kit for use with wireless controller CIR01
	2-Pin Connector	Printed Board Connector
	Drain Pump Kit (ceiling suspended)	Drain pump kit
	Remote Temperature Sensor	Remote air temperature sensor
	Drain pump (wall mount)	Condensate Pump Kit Capacity - 2.9-3.2 GPH @ 0' Head / 1.2-1.6 GPH @ 33' Head
	3-Pin Connector Cable	Kit (with 5 sets of 3P Connectors) that provides remote start/stop capability (binary input) to IU and operating status (binary input) of IU functions.
	Relay and 3-Pin Connector Kit	Relay and 3 Pin Connector Kit used for input/output signals (ON/OFF, mode, alarm) between central controller and IU

Controls

YORK VRF systems offer a wide range of control systems to suit multiple applications.
Systems include wired and wireless controls, touchscreen central station and computerized control options. and BACnet® and LONWorks® Adapters provide control by way of building management systems.

Simplified Wired Zone Controller

Wired Zone Controller

Wireless Zone Controller

Centralized Controllers

BACnet Adapter

LONWorks Adapter

Project Requirements	Simplified Wired (CIS01)	Wired (CIW01)	Wireless (CIR01)	Mini Central Station (CCM01)	Large Central Station (CCL01)	Computerized Central Controller (CCCS01/CCCA01)	Web-enabled Central Controller (CCWEB01)	BACnet® Adapter (CBN01)	LONWorks® Adapter (CLW01)
Simple individual zone control	✔	✔	✔	✔	✔				
Independent Cool and Heat setpoints	✔	✔	✔	✔	✔	✔	✔	✔	✔
Individual zone control with weekly programmable scheduling		✔		✔	✔	✔	✔	■	■
Basic central point on/off control of all units				✔	✔	✔	✔	✔	✔
Advanced multi-zone control of small to medium size projects				✔	✔		✔	■	■
Advanced multi-zone control of large commercial projects					✔	✔		■	■
Automatic cooling/heating changeover for heat pump systems	✔	✔	✔	✔	✔	✔	✔	■	■
Single input batch shutdown of all connected units				✔	✔	✔	✔	✔	✔
Multiple tenant power billing for shared condenser applications*								■	
Temperature set-point range restrictions	✔	✔		✔	✔	✔	✔	■	■
Graphical user interface with floor plan layout						✔		■	■

✔ = Native application or feature of this device ■ = Dependent upon capabilities of a third party energy management system * = Additional metering hardware is required for consumption-based tenant billing

Zone Controllers

MODEL CIW01

Wired Zone Controller

- Standard wall controller
- Controls temperature, mode, fan speed
- Seven-day timer with multiple setpoints
- Control up to 16 indoor units
- Built-in 23-hour timer
- Room name and service company name programmable
- Help menus and error code diagnosis
- Large LCD display permits users to see the operating conditions and settings.
- The timer can be set at half-hour intervals up to 23 hours.
- Monitors the operating conditions in the system and an alarm is issued if a problem occurs.
- A "self-diagnosis function" checks for problems on printed boards in indoor and outdoor units.

MODEL CIS01

Simplified Wired Zone Controller

- Small size for discreet applications
- Controls 1 to 16 indoor units (same settings)
- Error code diagnosis
- Adjustable fan speed
- Typically used in hotels, offices and restaurants

MODEL CIR01

Wireless Zone Controller

- Controls up to 16 indoor units
- Built-in 23-hour timer
- Wireless receiver must be added for all indoor units except wall-mount models (built in)

ZONE CONTROLLERS ENERGY SAVING FEATURES

- Temperature range limit
- Setback
- Occupancy-based operation (available on select Indoor Units)
- Set temperature auto reset
- Off timer
- Individual function lockout (mode, temperature, fan speed)

Centralized Controllers

Large: MODEL CCL01

Mini: MODEL CCM01

Compatible with the H-LINK II

Control up to 160 indoor units

Control up to 64 remote control groups

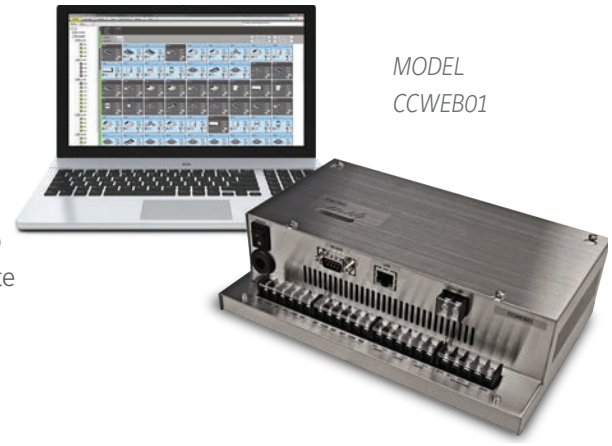
Connect up to 8 stations

Central Station

Mini and large systems are available.

- Large version controls up to 64 groups of indoor units (maximum 160 units).
- Mini version controls up to 32 groups of indoor units (maximum 160 units).
- Easy-to-use touchscreen interface
- Records accumulated operations time for tenant billing
- Color-coded graphics for quick reference
- Set up to 10 on/off times per day
- Up to 8 stations can be connected to the H-LINK II.
- In addition to basic control, such as settings for operation/stop, the operation mode and temperature, the air quantity and auto louver can be set. If a problem occurs, an alarm code immediately shows the details of the problem.
- An external input terminal is provided as standard. External signals enable the following functions:
  - central operation/stop,
  - demand control,
  - emergency stop,
  - central operation output, and
  - central alarm output.

Centralized Controllers



MODEL CCWEB01

Web-enabled Central Controller

The Web-enabled Central Controller is a web-based interface to control and monitor VRF systems with up to five (5) local or remote Windows-based PCs and/or tablets.

Features

- 24V AC powered
- Built-in software for easy access with no need for an optical drive for installation
- Advanced multi-zone control of large commercial projects
- Scheduling
- Block and Group Control for scheduling, mode, set point, prohibit RC functions
- Connect up to 8 Large (CCL01) and/or Mini (CCM01) Central Controllers simultaneously in the same H-LINK II segment
- Support for the following maximum device limits:
  - 64 Refrigerant Systems
  - 160 IDUs
  - Total combination of 200 Refrigerant Systems and IDUs

Computerized Central Controller

Computerized central controllers can manage up to 2,048 groups of systems with a maximum 2,560 total indoor units from a PC. This option increases management and setting possibilities and allows instructions to be carried out from any point on a local communication network.

Computerized Central Controller Software: MODEL CCCS01

Computerized Central Computer Adapter: MODEL CCCA01

Adapters for Integrating YORK VRF with Building Management Systems

BACnet® Adapter

BACnet integration enables control of VRF systems by way of a building management system, such as the Metasys® system from Johnson Controls.

This control mode offers almost unlimited capability to control space conditions within a building, across a campus, or over an entire enterprise.

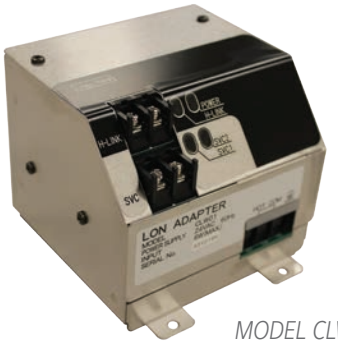
MODEL CBN01

Enhanced Features

- 24V AC powered
- Easy configuration with a Web-based interface
- Streamlined installation and set-up from a familiar web-browser
- Ability to display and support Fahrenheit (°F) and Celsius (°C) units
- Control temperature in 1°F (0.5°C) increments
- Simplified commissioning of Indoor Units with an auto-discovery function
- Connect up to 8 Large (CCL01) and/or Mini (CCM01) Central Controllers simultaneously in the same H-LINK II segment
- Support for the following maximum device limits:
  - 64 Refrigerant Systems
  - 160 Indoor Units
  - Total combination of 200 Refrigerant Systems and Indoor Units

LONWorks® Adapter

- Supports up to 64 Remote Control Groups
- Supports up to 160 Indoor Units with a variety of network variables on a per indoor unit basis
- Control points include: Run/Stop, Operation Mode, Fan Speed, Temperature Setpoint, Prohibit Zone Controller Functions
- Monitoring points include: Run/Stop Status, Operation Mode Status, Fan Speed Status, Temperature Setpoint, Thermo Statu, Alarm Status



MODEL CLW01

Features

- 24V AC powered
- Connect up to 4 LonWorks® Adapters (CLW01) simultaneously to the same H-LINK II segment
- Connect up to 8 Large (CCL01) and/or Mini (CCM01) Central Controllers and/or LONWorks Adapters (CLW01) simultaneously to the same H-LINK II segment
- Support for the following maximum device limits:
  - 64 Refrigerant Systems
  - 160 Indoor Units
  - Total combination of 200 Refrigerant Systems and Indoor Units

H-LINK II Network Systems

H-LINK II

H-LINK II is a unique communication system that can be used to control multiple outdoor and indoor units from one control point. Its use assists installers and service engineers by simplifying commissioning and service maintenance. For building owners and occupants, it provides great versatility to connect various types of central control options enabling better system management.

The H-LINK II communication system for connection between outdoor and indoor units provides an extended system configuration and improved functions without sacrificing workability and the flexibility.

Our proprietary high-performance communication system enables connection of control wiring between indoor and outdoor units, and between a centralized control system and indoor/outdoor units across two or more refrigerant systems.

Flexible Wiring Routes

There are no restrictions on the order of wiring routes and the number of branches. Simply connect to the adjacent units or the terminal block of a centralized control system.

Summary Table of H-LINK II System

H-LINK II System	
Max. Number of Refrigerant Groups / System	64
Address Setting Range of Indoor Units / Refrigerant Group	0 to 63
Max. Number of Indoor Units / System	160
Total Number of Devices in the same H-LINK II	200
Total Max. Wiring Length	Total 3,281 ft

Notes

Check our warranty certificate for parts extended warranties. For more details on terms, conditions, and limitations, please refer to the warranty certificate.

Industry certified

YORK VRF systems are Intertek ETL Listed (Canada & USA), signifying that they comply with the standard of Heating and Cooling Equipment (ANSI/UL 1995 and CAN/CSA C22.2 No. 236-11, 4th Edition, October 14, 2011). The systems are also certified by the Air Conditioning, Heating & Refrigeration Institute.

YORK®

INSTALL CONFIDENCE