YORK VRF

Your source for superior technology and integration

Variable refrigerant flow systems

The power behind **your mission**

Johnson Controls

Contents

YORK VRF product line

Indoor units

- Units are simple to install, service, and maintain
- Exceptionally quiet with sound ratings as low as 24.5 dBA
- Compatible with both air-source and water-source VRF lines as well as YORK controllers, adapters, and gateways

Ducted indoor units | Tonnage		0.5	0.7	1.0	1.3	1.5	2.0	2.3	2.5	3.0	4.0	4.5	5.0	6.0	8.0	16.0	24.0
High static (YIDH)					■	■	■	■	■	■	■	■		■	■		
Medium static (YIDM)		■	■	■	■	■	■	■	■	■	■	■					
Slim (YIDS)		■	■	■	■	■	■										
Dedicated outside air system (YDOA)															■		
EconoFresh Economizer (YIDM)									■	■	■						
Multi-position air handlers (YMAH)						■	■		■	■	■		■				
DX-Kit for general AHU connection (DXF)					■				■		■				■	■	■
Multi-air multi-position air handler (built-in control box type) (TIAH)			■	■		■	■		■	■	■		■				

Non-ducted indoor units | Tonnage		0.5	0.7	1.0	1.3	1.5	2.0	2.3	2.5	3.0	4.0	4.5	5.0	6.0	8.0	16.0	24.0
1-way cassette (YIC1)		■	■	■	■												
2-way cassette (YIC2)						■	■										
4-way mini cassette (YICM)			■	■	■	■											
4-way cassette (YIC4)			■	■	■	■	■		■	■	■						
Ceiling suspended (YICS)					■		■		■	■							
Wall-mounted (TIWM)		■	■	■	■	■	■		■								
Floor exposed (YIFE)		■	■	■	■												

YORK VRF product line (continued)

Air-source 208/230V and 460V VRF outdoor units

Enjoy the design freedom offered by the complete line of YORK air-source VRF systems. Modular YORK systems enable you to meet today's capacity needs exactly while facilitating future growth for optimal system performance and long-term cost-savings. Traditional HVAC options simply can't match the combination of flexibility, performance, and energy efficiency of YORK VRF systems.

Tons		3	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Heat recovery 208/230V and 460V (YVAHR)					■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Heat pump 208/230V and 460V (YVAHP)					■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Mini-VRF single-phase heat pump 208/230V (YVAHP)		■	■	■																

Water-source 208/230V, 460V VRF units

Bring the benefits of VRF technology to applications where outdoor conditions or roof lines/weight limit challenge other systems. YORK water-source VRF systems are ideal for harsh climates, coastal regions, or anywhere that roof weight, exterior appearance, or external noise concerns are an issue. With modules in capacities from 6 to 48 tons, YORK water-source VRF systems are some of the largest capacity systems on the market.

Tons		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Heat pump/heat recovery 208/230V and 460V (YVWHP/ YVWHR)		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

YORK VRF product line (continued)

575V air-source VRF outdoor units and water-source VRF units

Deliver the advantages of VRF technology to Canadian customers easily and cost-effectively with YORK 575V air-source and water-source VRF systems. The 575V line eliminates the need for a transformer, reduces costs, and simplifies installation.

And, for budget-conscious customers, the YORK 575V air-source VRF Heat Pump System prioritizes demand for cooling and automatically switches system operations from heating to cooling for a cost-effective alternative to heat recovery systems.

Tons	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Heat pump and heat recovery 575V (YVAHP/ YVAHR)																

Tons	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Heat pump/heat recovery 575V (YVWHP/ YVWHR)																						

Change-over boxes for heat recovery systems

A full selection of change-over boxes ensures that heat recovery systems meet both current and future needs.

Single-port (COBS048B22S/C)	4-port (COB04M132B22S)	8-port (COB08M264B22S)	12-port (COB12M264B22S)
			

Controllers

Superior controllers provide unmatched performance and ensure optimal solutions for local and centralized control.

Wireless zone controller (CIR01)	Wired controller (CIW01-H)	Wireless controller (CIR01)	Mini-central controller (CCM01)	Large central controller (CCL01)	VRF central touchscreen controller CCXL02
					

Network adapters

Premium network adapters integrate VRF systems with building automation systems simply, quickly, and completely.

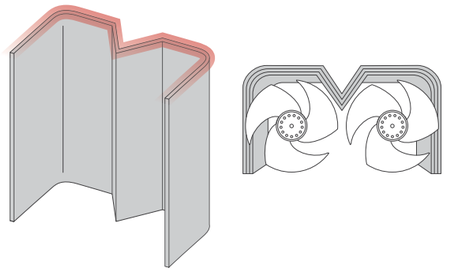
LonWorks® adapter (CLW01)	VRF smart gateway (CBN02)	VRF cloud gateway (CMNETS)
		

The complete package

Taking VRF to new places

Meet more application challenges with the newly enhanced and expanded line of YORK VRF equipment. The line, which now includes water-source and 575V units, enables you to bring smart solutions to more projects including high-rise buildings, coastal properties, and Canadian locations.
Your customers can expect years of worry-free, efficient operation with the refreshed YORK VRF line. A patented sigma-shaped heat exchanger that enhances heat exchange and efficiency in the outdoor units is just one of many innovations in our VRF system design. Each development has contributed to making YORK VRF exceptional in both performance and energy efficiency.

YORK VRF Outdoor Units feature a patented sigma-shaped heat exchanger that improves heat exchange and efficiency.



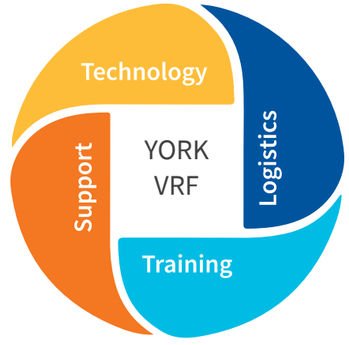
Built with you in mind

You and your customers will appreciate the smart engineering at the core of all equipment. This includes a unit design that makes installation and maintenance a breeze, decreasing labor and lowering costs.

The complete line of equipment includes a full range of indoor units, controllers and change-over boxes, ensuring a truly customized solution for every customer. When you purchase YORK VRF equipment, though, you get so much more than precisely engineered equipment.

Innovative technology solves more application challenges, so you can bring greater comfort and efficiency to more customers than ever before.

Our dedicated VRF support staff is available to answer questions and provide guidance throughout the life of a project from design to installation and service.



Ample inventory, along with advanced order management and logistic systems, ensures equipment arrives when you need it. And our 99 percent damage-free work record ensures that when equipment arrives, it's ready for installation.

World-class training ensures that your team has the knowledge and skills to confidently design, build, and service YORK VRF systems. Classes are offered at four convenient locations, and on-site training is available when needed.

Innovative engineering

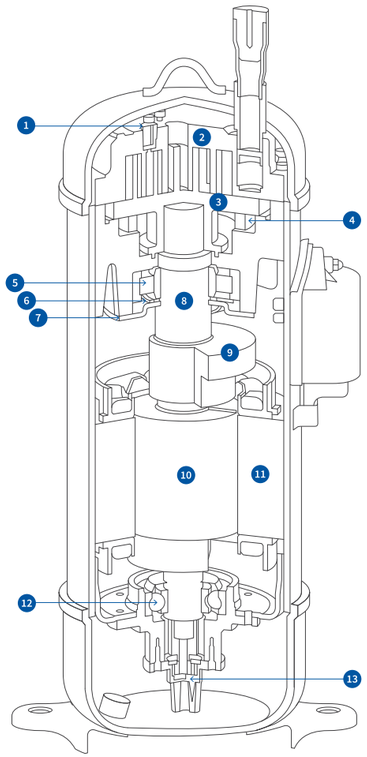
Advanced compressors and heat exchangers achieve new levels of performance and efficiency

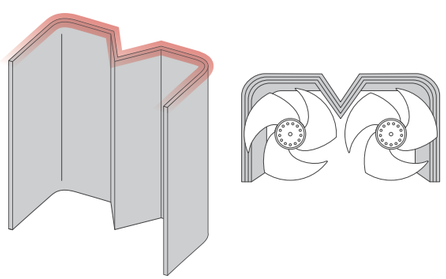
Compressors

Precision engineering makes our DC inverter scroll compressor exceptionally reliable, quiet, and efficient. Modulating in 0.1 Hz increments, the compressor:

- Delivers the exact amount of cooling/heating required
- Enables fine control for optimal comfort
- Provides energy savings

1	Pressure bypass valve
2	Fixed scroll
3	Orbiting scroll
4	Oldham's coupling
5	Main bearing
6	Thrust bearing
7	Frame seal
8	Crankshaft
9	Counterweight
10	Motor rotor
11	Motor stator
12	Sub bearing
13	Oil pump





Heat exchangers

Outdoor units feature our patented sigma-shaped heat exchanger for superior efficiency and an improved heat exchange rate. They also feature:

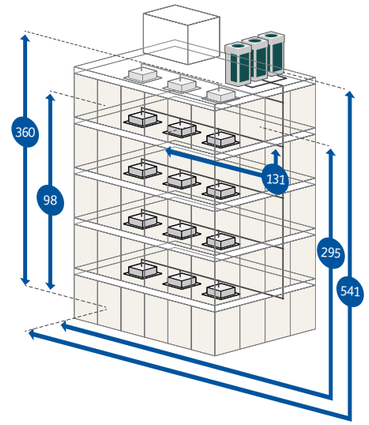
- **Demand control** which limits power consumption, minimizes equipment wear and tear, and reduces noise
- **Load shedding** which turns units on and off, and cycles between units for enhanced energy savings and reduced electric load demand
- **Longer fan blades** increase airflow by 25%, resulting in higher static pressure while reducing energy consumption and electric load demand

Design flexibility

Longer piping lengths for greater design freedom

Our vertical piping distance limits extend to 360 feet, providing more layout options.

Maximum distances	HP	HR
Total piping, one-way	3,281 ft.	
Vertically between OU and IU	360 ft.	
Vertically between IUs	98 ft.	98 ft.
First branch and IU	295 ft.	
Linear Length, OU and IU	541 ft.	
Branch and IU	131 ft.	



Indoor units

Enjoy exceptional layout flexibility with a wide selection of indoor units that maximize comfort, convenience, and savings.

- **Supply air sensors enable remote readings** of air supply temperature (on all YORK VRF Indoor Units)
- **Multi Kits reduce installation time and cost,** because they don't require 20 inches to each elbow installation as most competitors' systems do
- **A GentleCool feature** (available on many units) eliminates the rush of cold air that can occur when air conditioning first comes on
- **The exclusive EconoFresh Economizer** (used with a ducted Medium Static unit) provides outside air/free cooling when conditions permit, saving energy and improving air quality
- **Optional motion sensors eliminate unnecessary operation and save energy** by adjusting supply air temperature to occupancy level and discontinuing operation when room is vacant for extended periods

Change-over boxes

Single-port change-over box

8 Port change-over box

4 Port change-over box

12 Port change-over box

Single-port boxes and multi-port boxes with 4, 8, and 12 ports feature:

Built-in simplicity: Refrigerant is directed to the desired zone and indoor unit(s), and because our design does not produce condensate, there is no need for a drain in the change-over box

Quiet operation: Each box has an optimal number of valves, eliminating noise and condensation, and increasing layout flexibility

Reliable performance: Valves work according to the cooling and heating demand of each zone, and for added reliability, are protected with a fine mesh strainer in the refrigerant circuit. An optimized box design enables easy service access if required

Design flexibility (continued)

Space-saving solutions

YORK VRF Outdoor Units are compact and lightweight, making them easy to specify, transport, install, and service.

These space-saving solutions reduce installation costs for a true competitive advantage.

Combination of modules

Air-source equipment line																
Rated capacity (ton)	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Number of modules	1						2							3		
Capacity of module(s) (ton)	6	8	10	12	14	16	12 6	10 10	12 10	12 12	14 12	16 12	16 14	12 10 10	12 12 10	12 12 12

Water-source equipment line																
Rated capacity (ton)	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Number of modules	1							2								
Capacity of module(s) (ton)	6	8	10	12	14	16	18	10 10	12 10	12 12	14 12	14 14	16 14	16 16	18 16	18 18

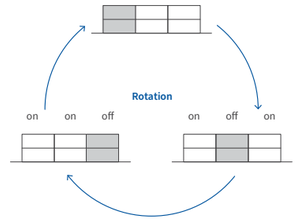
Rated capacity (Ton)	38	40	42	44	46	48
Number of modules	3					
Capacity of module(s) (Ton)	14 12 12	14 14 12	14 14 14	16 14 14	16 16 14	16 16 16

Advanced performance

Reliability with simple installation and maintenance

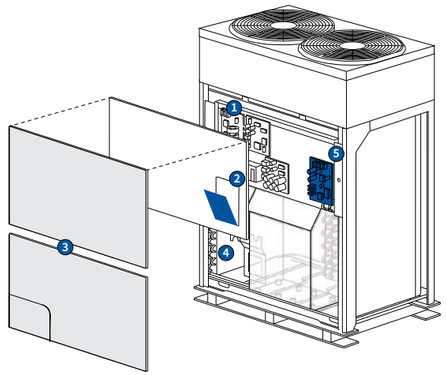
Built to be dependable

YORK VRF equipment is engineered for reliability. In the unlikely event of a compressor failure, the automatic backup system ensures uninterrupted operation by distributing the load to other units in the module. This exceptional performance is built into a compact, smartly-designed cabinet that makes installation and maintenance a breeze.



Rotational operation

Compressors in systems with multiple units operate on programmed sequence, equalizing runtime. If one unit fails, remaining units continue operating to safeguard occupant comfort.



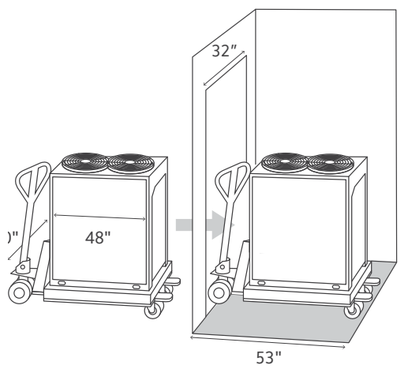
Maintenance is fast and simple

Systems need little maintenance beyond the changing of filters and cleaning of coils. Removal of a single panel on the outdoor unit provides easy access to control boards, electrical connections, compressor, and piping.

1. Upper section allows easy access to PCBs
2. New access window for seven-segment display
3. Independently detachable upper and lower panels
4. Lower section allows access to compressors and valves
5. New dip switch setting for refrigerant evacuation

Install with ease

Small, light outdoor units can be easily transported on pallets.



Next-generation control

A choice to suit every application

Choose from several control options

- **Multiple control options are available**, from simple units with on/off, set point, load, and speed settings, to programmable units that enable scheduling. Wireless units are available to provide remote control of zone space conditions. All options enable precise control of indoor units through intuitive user interfaces
- **Central station controllers for larger projects** provide remote control and scheduling of the entire system from one or more control points
- **Our leading-edge VRF Smart Gateway provides comprehensive control of** all YORK VRF technology through building automation systems (BAS) such as Metasys® BAS
- **The new VRF Cloud Gateway integrates our VRF systems with smart devices**, tablets, and home automation system controllers for comprehensive control of all home systems through one device. The VRF Cloud Gateway works as a stand-alone solution to enable HVAC system control over the web through a smartphone, tablet, or PC

Game-changing gateway for unprecedented control

The revolutionary VRF Smart Gateway from Johnson Controls achieves what competitive products only approximate: complete integration of VRF system data with building automation systems such as Metasys BAS. Unlike other BACnet® adapters, the VRF Smart Gateway makes integration fast and simple. No special programming or expensive technician time is required, because VRF system data is automatically discovered and imported into your BAS:

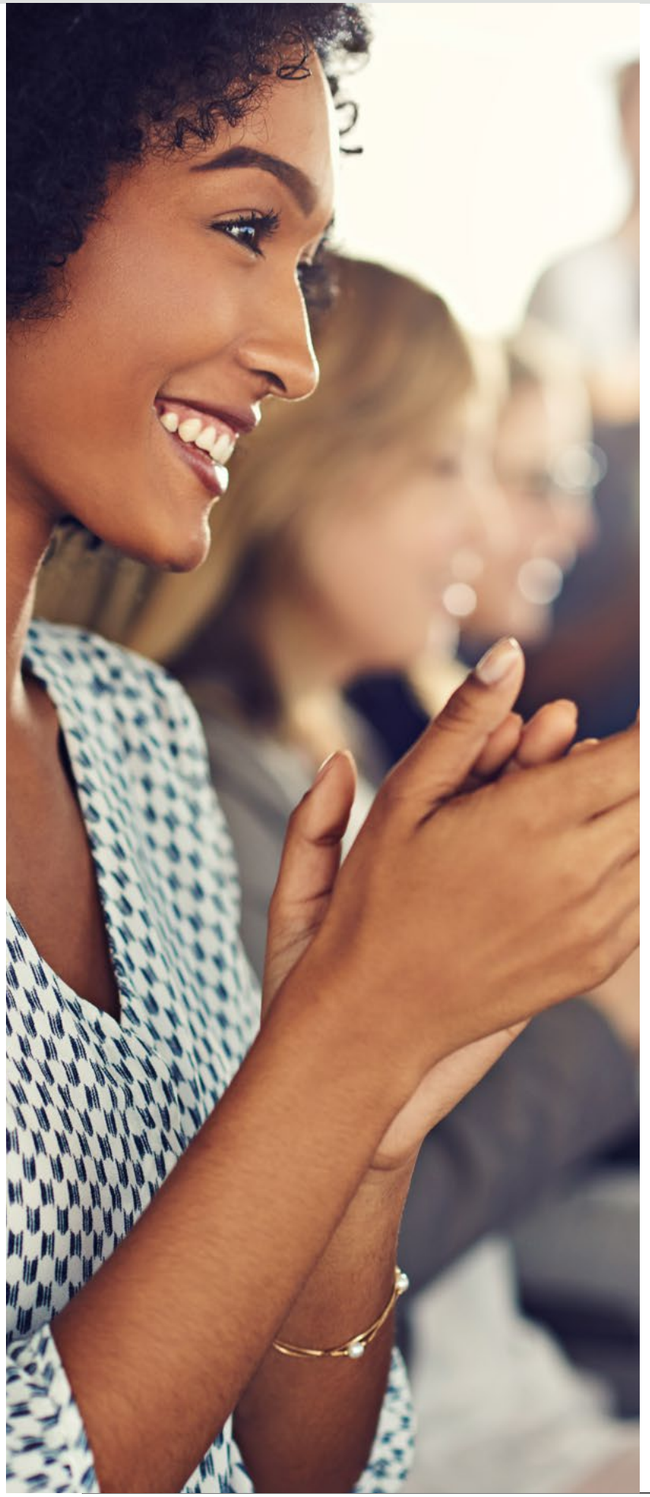
The VRF Smart Gateway provides quick, easy integration of all detailed data with automatic formatting.

- All data conforms to your BAS conventions
- Detailed data available for every component across system
- 24/7 control from a laptop, tablet or smartphone

This breakthrough product makes it possible to install an energy-efficient YORK VRF HVAC System without incurring high integration costs or sacrificing data access or equipment control. So, you are free to choose a YORK VRF System based on merit alone.

Integration at an elite level

The VRF Smart Gateway provides complete data integration for absolute control of YORK VRF equipment through a building automation system.



Selecting the right system

A choice to suit every space

The YORK VRF line offers several system choices, so how do you know which to choose for a particular project? The following pages provide an overview of each system's advantages. The optimal choice for a specific application will depend upon customer requirements and influencing factors such as budget, location, and project type. For guidance with a particular project, contact your local YORK VRF expert.

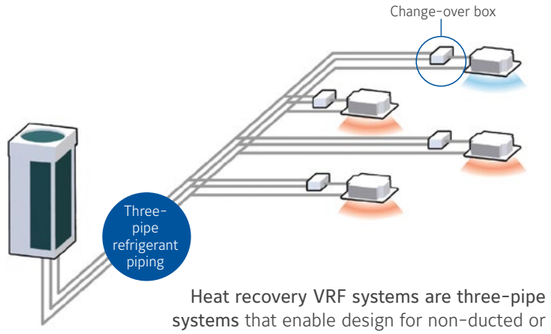
Heat recovery or heat pump?

Heat recovery

Three-pipe systems deliver simultaneous heating and cooling to multiple zones for ultimate flexibility and personalized comfort by transferring excess energy from one zone to another.

Heat recovery systems offer:

- customized comfort – each zone controls its own temperature
- consistent temperature in large zones
- energy savings
- heating operation down to -13°F standard

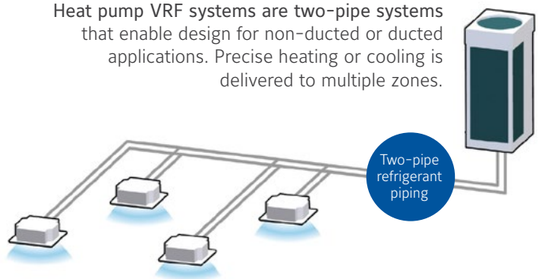


Heat recovery VRF systems are three-pipe systems that enable design for non-ducted or ducted applications. Precise heating and cooling is delivered with an extra measure of flexibility since the system can provide simultaneous heating and cooling while transferring any excess heat or cooling from one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

Heat pump

Two-pipe systems are simple, cost-effective systems that deliver either heating or cooling to multiple zones. Heat pump systems are a good choice for applications that don't require simultaneous heating or cooling, such as locations where seasons are clearly defined, or buildings with large, open-plan spaces.

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.

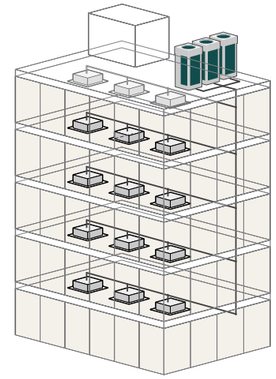


Your YORK technical expert can help you to select the most suitable system for your application.

Air-source or water-source?

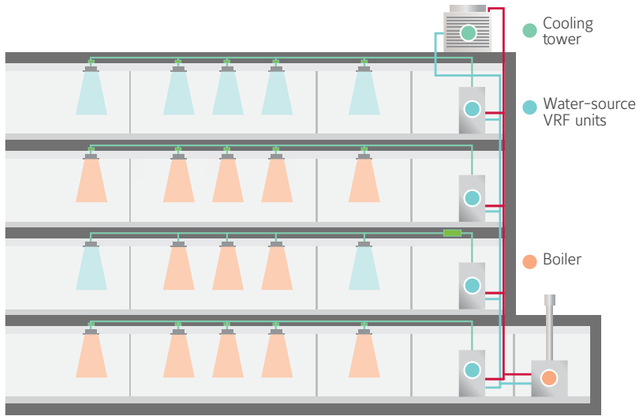
Air-source VRF systems

Air-source systems provide a solution that is quick and easy to install and has very low maintenance costs. Units are available in capacities up to 36 tons, and each unit can be connected to up to 64 indoor units. Learn more about YORK VRF air-source Systems beginning on page 42.



Water-source VRF systems

Water-source systems are an excellent choice for any application where outdoor equipment placement is problematic as all equipment is located indoors. Units are available in capacities up to 48 tons, and each unit can be connected to up to 64 indoor units. Learn more about YORK VRF water-source VRF units beginning on page 64.



Features and benefits summary

	FEATURES	ADVANTAGES	BENEFITS
ARCHITECT/SYSTEM DESIGNER	Piping extends to 3,281 feet. Vertical piping distance between Outdoor Unit and Indoor Unit runs up to 360 feet.	· Suitable for short or long runs; accommodate nearly all projects	· Provide exceptional design freedom
	Compact footprint	· Require less space than conventional systems	· Provide more placement options and enables use even within tight lot lines
	Modular components	· Provide flexibility to customize systems to each project's needs	· Simplify design process · Allow easy updates as space is reconfigured or expanded
	Non-ducted systems	· Ultimate in design flexibility · Reduce clearance between building floors	· Reduce system costs · Save space · Ideal for historic renovations
	Ducted systems	· Accommodate retrofits by making use of existing duct infrastructure · New fan design increases static pressure · Suit unique buildings that include ducted and non-ducted areas	· Reduce overall construction costs
	EconoFresh economizer	· Provide energy-saving free cooling (or outside air to maintain good-quality indoor air)	· Save energy and maintain good-quailty indoor air
	Heat pump systems	· Precisely heat or cool multiple zones	· Provide extreme system-design flexibility
	Heat recovery systems	· Allow simultaneous heating/cooling · Allow transfer of excess heat/cooling from one zone to another space	· Maximize comfort and efficiency · Maximize design flexibility · Increase occupant comfort to specified zones
	Comprehensive training	· Tailor modules to specific job functions	· Enable effective equipment selection and specification
	Web-based system selection software	· Intuitive functionality that simplifies and speeds designs · Accessible from any computer or tablet	· Allow confident selection and right-sizing of systems
	Multi-port change-over boxes (cobs) available with 4, 8, and 12 ports	· Multi-port COBs provide multiple layout options and accommodate future growth	· Provides exceptional design flexibility

	FEATURES	ADVANTAGES	BENEFITS
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 · Outdoor units are smaller and lighter than previous generation	· Reduce installation time and cost · Provide more placement options
	Comprehensive training	· Tailor modules to specific job functions	· Enable professional, high-quality, timely installation
	Consistent, reliable product delivery	· Ensure correct delivery to job sites on time	· Enhance installation efficiency · Allow efficient labor scheduling
	Easy maintenance access	· Access all components by removal removal of one panel on outdoor unit	· Speed up time spent on maintenance, repair, and troubleshooting, if required
	Easy access to product information	· All product information is available on the web portal · QR code on unit nameplate allows access to all information on that unit, including warranty registration	· Simplify and speed up maintenance, troubleshooting, and repairs
	Refrigerant check	· Automatically verifies that system is charged with the correct amount of refrigerant to meet requirements	· Adjust for optimum efficiency and performance

Variable refrigerant flow systems

Features and benefits summary

		FEATURES	ADVANTAGES	BENEFITS
BUILDING OWNERS	Systems	Rotational outdoor unit operation	· In multiple-unit applications at partial load, outdoor units operate alternately so that operating hours are shared equally	· Optimize efficiency · Extend service life · Increase reliability
		Backup operation function	· In multi-module VRF system, if one outdoor unit compressor fails, backup operation function ensures other outdoor units continue to operate for uninterrupted service	· Avoid system downtime · Protect occupant comfort
		Efficiency optimized for part-load operation	· Certified efficiency among industry's highest for VRF systems	· Save energy
		Optimum individualized comfort	· Heat recovery systems deliver simultaneous heating and cooling	· Efficient heating/cooling · Maximize 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 51 dBA for outdoor units; 26 dBA for indoor units) · Ideal where outdoor units are positioned on side of building or in locations where there are noise restrictions
	Compressors	DC inverter-driven scroll compressor	· Redesigned to deliver the optimum efficiency at normal load conditions · Multiple inverter compressors are standard in 8-ton and larger outdoor units for increased efficiency	· Among industry's most efficient VRF systems: · Highest IEER · Highest SCHE · Highest COP
		Compressor modulation in small increments	· Smoothly deliver exact amount of heating or cooling needed	· Allow fine control for optimum comfort · Save energy
	Outdoor units	Demand control	· Select from a wide variety of power settings from 100% to 60% and program "not to exceed" a given power level	· Limit electric demand charges · Limit equipment runtime · Reducesnoise
		Load shedding	· Allows programming to turn units on/off in rotation at 10- to 20-minute intervals	· Save energy · Limit demand charges
		Dual fan design	· Dual fan design increases airflow over previous generation – up to 23% – and decreases sound	· Reduce noise · Extend motor life · Increase airflow
		Dual heat exchanger	· Newly-designed dual heat exchanger in Outdoor Units provides 10% more surface area	· Increase capacity · Improve efficiency
	Indoor units	As high as 1.2 in. WG static pressure in ducted systems	· Provide adjustable speeds to match any site-specific static pressure requirement	· Flexibility to accommodate long or short ductwork runs
		Optional motion and radiant sensors	· Set back temperature when space is unoccupied, increasing efficiency even further	· Save energy
	Controls	H-Link II protocol	· Control multiple indoor and outdoor units from one control point · Add versatility to connect various central control options	· Maximizes indoor comfort · Save energy · Improve system management
		Temperature control	· Adjust in 1° Fahrenheit increments · Adjust fan speeds	· Auto-adjust for daylight saving time · Provide options to satisfy multiple projects/buildings
		VRF Smart Gateway	· Enable control of VRF systems by way of a building management system (such as Facility Explorer®) for almost unlimited control in a building or campus enterprise.	· Automatic data formatting to reduce integration time and expense · Full BMS capabilities enable superior control of all system components · Wi-Fi accessibility enables 24/7 monitoring and control from laptops, tablets, and smartphones

Indoor units

A choice to suit every space

YORK VRF Ducted and Non-Ducted Units deliver both style and performance. Whisper-quiet units have sound ratings as low as 26 dBA and are available in styles and capacities to fit any application. Best of all, they are easy to install, service and maintain.

Variable refrigerant flow systems | Indoor units

Overview

Ducted high static indoor units

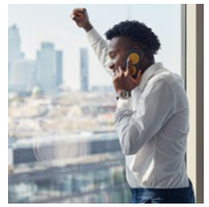
This unit has a high-efficiency fan motor, multiple fan speeds and access from underneath for ease of service.

Dedicated outside air systems (DOAS)

This unit enables fresh air to be brought into the VRF system for a healthier, more comfortable indoor environment.

Ducted medium static indoor units

With a high-efficiency fan motor, this unit has multiple fan speeds and access from underneath for ease of service.



EconoFresh Economizer indoor units

This unit combines a ducted Medium Static unit with an Economizer Kit to provide outside air/free cooling when conditions permit.

Ducted slim indoor units

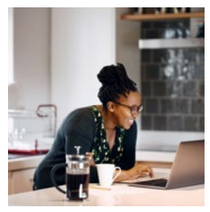
This slim-line unit features a high-efficiency fan motor, multiple fan speeds and access from underneath for ease of service.

Multi-position air handlers

This flexible unit with multiple installation positions is ideal both for residential and light commercial applications.

DX-Kit for general AHU connection

This slim-line unit features a high-efficiency fan motor, multiple fan speeds and access from underneath for ease of service.



Multi-air multi-position air handlers

This new multi-air AHU simplify installation, comes in three sizes and eight capacities to suit applications as small as a hotel room or office, and as large as a single-family house.

Overview (continued)

1-way cassette indoor units

This slim and stylish yet inexpensive unit is ideal for spaces that only require one-way airflow.

2-way cassette indoor units

Providing bi-directional airflow, this exceptionally quiet unit is a good choice for many different spaces.

4-way mini-cassette indoor units

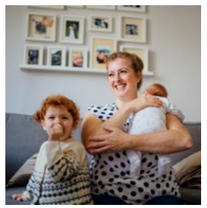
This versatile unit is quiet, energy-efficient and compact, making it a great choice for many applications.

4-way cassette indoor units

Compact and lightweight, this unit with 4-way airflow is easy to install even in tight spaces.

Ceiling suspended indoor units

This unit with its sleek design operates quietly and efficiently while evenly distributing airflow.



Wall-mounted indoor units

With wide-angle louvers, this unit distributes air comfortably throughout a room for an even temperature.

Floor exposed indoor units

This slim-design unit leaves design options open and is ideal for perimeter conditioning of air.

Ducted high static

Capacities: 15,000 to 96,000 Btu/hr

These indoor units now feature higher static pressure:

Up to 0.8″ for 1.3- to 4.5-ton units and up to 1.16″ for six- and eight-ton units.

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

Tonnage			1.3		1.5		2.0		2.3		2.5	
Ducted high static indoor unit model #			YIDH015B2(2,3)S		YIDH018B2(2,3)S		YIDH024B2(2,3)S		YIDH027B2(2,3)S		YIDH030B2(2,3)S	
Power supply			AC 1 Phase, 208/230V, 60Hz									
Nominal cooling capacity [1]		Btu/h	15,000		18,000		24,000		27,000		30,000	
		(kW)	(4.4)		(5.3)		(7.1)		(8.0)		(8.8)	
Nominal heating capacity [1]		Btu/h	17,000		20,000		27,000		30,000		34,000	
		(kW)	(5.0)		(5.9)		(8.0)		(8.8)		(10.0)	
Sound pressure level [2] (overall a scale) (Hi2-Hi-Me-Lo)		dB	41-38-35-32		37-35-32-30		40-37-34-32		40-37-34-32		40-37-34-32	
Outer dimensions	Height	in.(mm)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)
	Width	in.(mm)	27-9/16	(700)	41-5/16	(1050)	41-5/16	(1050)	41-5/16	(1050)	55-1/8	(1400)
	Depth	in.(mm)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)
Net weight		lbs.(kg)	64	(29)	84	(38)	84	(38)	84	(38)	106	(48)
Refrigerant			R410A									
Indoor fan	Airflow rate (Hi2-Hi-Me-Lo)	cfm	512-459-388-335		653-582-512-424		759-671-582-494		759-671-582-494		1059-935-812-706	
		(m3/min)	(14.5-13-11-9.5)		(18.5-16.5-14.5-12)		(21.5-19-16.5-14)		(21.5-19-16.5-14)		(30-26.5-23-20)	
External pressure [3] std (High1 - High2)		in. W.G.	0.2 (0.4-0.8)		0.2 (0.4-0.8)		0.2 (0.4-0.8)		0.2 (0.4-0.8)		0.2 (0.4-0.8)	
		(Pa)	(50 (100-200))		(50 (100-200))		(50 (100-200))		(50 (100-200))		(50 (100-200))	
Motor nominal output		W	157		190		190		190		259	
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)	3/8	(9.52)
	Gas line	in.(mm)	1/2	(12.7)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate drain	OU	in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

Ducted high static				
Compatible accessories	YIDH015B2(2,3)S	YIDH018-027B2(2,3)S	YIDH030-054B2(2,3)S	YIDH072-096B21S
Filter box for long-life filter	B-56LI	B-90LI	B-160LI	–
Infrared (IR) receiver kit	CWDIRK01	CWDIRK01	CWDIRK01	CWDIRK01
Long-life filter	F-56LI	F-90LI	F-160LI	–
3-pin connector cable	PCC-1A	PCC-1A	PCC-1A	PCC-1A
Connector cable for auxiliary heater	PCC-6A	PCC-6A	PCC-6A	PCC-CN1925-H
Relay and 3-pin connector kit	PSC-5RA	PSC-5RA	PSC-5RA	PSC-5RA
Motion sensor kit (for ducted indoor units)	SOR-NEZ	SOR-NEZ	SOR-NEZ	–
Seismic suspension bracket	–	–	–	SSB-IDH01
Remote sensor (control)	THM-R2A	THM-R2A	THM-R2A	THM-R2A

Ducted high static (continued)

Key features

- High-efficiency AC fan motor
- Multiple fan speed settings
- Access from underneath for easy service
- Built-in condensate pump
- Auxiliary/emergency heater control
- Sensor enables remote reading of air supply temperature
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling

Capacities: 15,000 to 96,000 Btu/hr

Tonnage			3.0		4.0		4.5		6.0		8.0	
Ducted high static indoor unit model #			YIDH036B2(2,3)S		YIDH048B2(2,3)S		YIDH054B2(2,3)S		YIDH072B21S		YIDH096B21S	
Power supply			AC 1 Phase, 208/230V, 60Hz									
Nominal cooling capacity [1]		Btu/h	36,000		48,000		54,000		72,000		96,000	
		(kW)	(10.6)		(14.1)		(15.8)		(21.1)		(28.2)	
Nominal heating capacity [1]		Btu/h	40,000		54,000		60,000		81,000		108,000	
		(kW)	(11.8)		(15.8)		(17.6)		(23.8)		(31.7)	
Sound pressure level [2] (overall a scale) (Hi2-Hi-Me-Lo) [(Hi-Lo) (208/230V) for 6.0, 8.0 Ton]		dB	42-39-36-33		44-40-37-34		44-40-37-34		47-43/50-47		51-46/54-50	
Outer dimensions	Height	in.(mm)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)	18-3/8	(466)	18-3/8	(466)
	Width	in.(mm)	55-1/8	(1400)	55-1/8	(1400)	55-1/8	(1400)	49-3/16	(1250)	49-3/16	(1250)
	Depth	in.(mm)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	44-1/8	(1120)	44-1/8	(1120)
Net weight		lbs.(kg)	106	(48)	106	(48)	106	(48)	258	(117)	258	(117)
Refrigerant			R410A									
Indoor fan	Airflow rate (Hi2-Hi-Me-Lo)	cfm	1183-1041-918-777		1271-1112-971-847		1271-1112-971-847		2047-1765		2542-2189	
		(m^3/min)	(33.5-29.5-26-22)		(36-31.5-27.5-24)		(36-31.5-27.5-24)		(58.0-50.0)		(72.0-62.0)	
External pressure [3] std (high1-high2) [(Std (High)) (208/230V) for 6.0, 8.0 Ton]		in. W.G.	0.2 (0.4-0.8)		0.2 (0.4-0.8)		0.2 (0.4-0.8)		0.28/0.64 (0.88/1.16)		0.32/0.64 (0.88/1.16)	
		(Pa)	(50 (100-200))		(50 (100-200))		(50 (100-200))		(70/160 (220/290))		(80/160 (220/240))	
Motor nominal output		W	259		259		259		840 (420x2pcs)		1240 (620x2pcs)	
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)	3/8	(9.52)	3/8	(9.52)
	Gas line	in.(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	3/4	(19.05)	7/8	(22.20)
Condensate drain	OU	in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
3. The data for external pressure 3 indicates standard pressure setting (high pressure setting 1 - high pressure setting 2) values when a filter is not used. The sound pressure level is based on the standard pressure setting.

Ducted medium static

Capacities: 6,000 to 54,000 Btu/hr

These indoor units feature higher static pressure: up to 0.6" for medium static indoor units.

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

Tonnage			0.5		0.7		1.0		1.3		1.5	
Ducted medium static indoor unit model #			YIDM006B2(2,3)S		YIDM008B2(2,3)S		YIDM012B2(2,3)S		YIDM015B2(2,3)S		YIDM018B2(2,3)S	
Power supply			AC 1 Phase, 208/230V, 60Hz									
Nominal cooling capacity [1]		Btu/h	6,000		8,000		12,000		15,000		18,000	
		(kW)	(1.8)		(2.4)		(3.6)		(4.4)		(5.3)	
Nominal heating capacity [1]		Btu/h	6,700		9,000		13,500		17,000		20,000	
		(kW)	(2.0)		(2.7)		(4.0)		(5.0)		(5.9)	
Sound pressure level [2] (Overall A Scale) (Hi2-Hi-Me-Lo)		dB	32-30-28-27		33-31-29-28		38-35-32-30		40-37-34-31		37-35-33-31	
Outer dimensions	Height	in. (mm)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)
	Width	in. (mm)	27-9/16	(700)	27-9/16	(700)	27-9/16	(700)	27-9/16	(700)	41-5/16	(1050)
	Depth	in. (mm)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)	31-1/2	(800)
Net weight		lbs. (kg)	57	(26)	57	(26)	60	(27)	60	(27)	79	(36)
Refrigerant			R410A									
Indoor fan	Airflow rate (Hi2-Hi-Me-Lo)	cfm	300-265-229-194		335-300-265-229		459-406-353-300		512-459-388-335		653-582-494-424	
		(m3/min)	(8.5-7.5-6.5-5.5)		(9.5-8.5-7.5-6.5)		(13-11.5-10-8.5)		(14.5-13-11-9.5)		(18.5-16.5-14-12)	
External pressure [3] std (high1-high2)		in. W.G.	0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)	
		(Pa)	(50 (100-150))		(50 (100-150))		(50 (100-150))		(50 (100-150))		(50 (100-150))	
Motor nominal output		W	157		157		157		157		190	
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	(12.7)	1/2	(12.7)	1/2	(12.7)	1/2	(12.7)	5/8	(15.88)
Condensate drain	OU	in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

Ducted medium static

Compatible accessories	YIDM006-015B2(2,3)S	YIDM018-027B2(2,3)S	YIDM030-054B2(2,3)S
Filter box for long-life filter	B-56LI	B-90LI	B-160LI
Infrared (IR) receiver kit	CWDIRK01	CWDIRK01	CWDIRK01
Long-life filter	F-56LI	F-90LI	F-160LI
3-pin connector cable	PCC-1A	PCC-1A	PCC-1A
Connector cable for auxiliary heater	PCC-6A	PCC-6A	PCC-6A
Relay and 3-pin connector kit	PSC-5RA	PSC-5RA	PSC-5RA
Motion sensor kit (for ducted indoor units)	SOR-NEZ	SOR-NEZ	SOR-NEZ
Remote sensor (control)	THM-R2A	THM-R2A	THM-R2A

Ducted medium static (continued)

Key features

- High-efficiency DC fan motor
- Multiple fan speed settings
- Up to 0.6 in. WG static pressure
- Access from underneath for easy service and troubleshooting
- Built-in condensate pump
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling

Tonnage			2.0		2.3		2.5		3.0		4.0		4.5	
Ducted medium static indoor unit model #			YIIDM024B2(2,3)S		YIDM027B2(2,3)S		YIDM030B2(2,3)S		YIDM036B2(2,3)S		YIDM048B2(2,3)S		YIDM054B2(2,3)S	
Power supply			AC 1 Phase, 208/230V, 60Hz											
Nominal cooling capacity [1]		Btu/h	24,000		27,000		30,000		36,000		48,000		54,000	
		(kW)	(7.1)		(8.0)		(8.8)		(10.6)		(14.1)		(15.8)	
Nominal heating capacity [1]		Btu/h	27,000		30,000		34,000		40,000		54,000		60,000	
		(kW)	(8.0)		(8.8)		(10.0)		(11.8)		(15.8)		(17.6)	
Sound pressure level [2] (overall a scale) (Hi2-Hi-Me-Lo)		dB	39-37-34-32		39-37-34-32		40-38-35-32		42-39-36-34		43-40-37-34		43-40-37-34	
Outer dimensions	Height	in.(mm)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)	9-13/16	(250)
	Width	in.(mm)	41-5/16	(1050)	41-5/16	(1050)	55-1/8	(1400)	55-1/8	(1400)	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)	31-1/2	(800)	31-1/2	(800)
Net weight		lbs.(kg)	79	(36)	79	(36)	97	(44)	97	(44)	97	(44)	97	(44)
Refrigerant			R410A											
Indoor fan	Airflow Rate (Hi2-Hi-Me-Lo)	cfm	759-671-582-494		759-671-582-494		1059-935-812-706		1183-1041-918-777		1271-1112-971-847		1271-1112-971-847	
		(m3/min)	(21.5-19-16.5-14)		(21.5-19-16.5-14)		(30-26.5-23-20)		(33.5-29.5-26-22)		(36-31.5-27.5-24)		(36-31.5-27.5-24)	
External pressure [3] std (High1-High2)		in. W.G.	0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)		0.2 (0.4-0.6)	
		(Pa)	(50 (100-150))		(50 (100-150))		(50 (100-150))		(50 (100-150))		(50 (100-150))		(50 (100-150))	
Motor nominal output		W	190		190		259		259		259		259	
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)	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)	5/8	(15.88)	5/8	(15.88)
Condensate drain	OU	in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.

The sound pressure level is based on the following conditions:4.9 ft. (1.5m) beneath the unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

The data for external pressure 3 indicates standard pressure setting (high pressure setting 1 - high pressure setting 2) values when a filter is not used. The sound pressure level is based on the standard pressure setting.

Ducted slim

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

Key features

- High-efficiency DC fan motor
- Multiple fan speed settings
- Up to .20 in. WG static pressure
- Access from underneath for easy service and troubleshooting
- Built-in condensate pump
- Setback temperature control
- Auxiliary/emergency heater control

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

- Cooling and heating auto-changeover dual-setpoint control
- Sensor enables remote reading of air supply temperature

Tonnage			0.5		0.7		1.0		1.3		1.5	
Ducted slim indoor unit model #			YIDS006B21S		YIDS008B21S		YIDS012B21S		YIDS015B21S		YIDS018B21S	
Power supply			AC 1 Phase, 208/230V, 60Hz									
Nominal cooling capacity [1]		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 [1]		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) (Hi2-Hi-Me-Lo)		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	Airflow rate (Hi2-Hi-Me-Lo)	cfm	318-289-244-205		318-289-244-205		346-318-300-268		512-477-441-381		582-530-494-424	
		(m3/min)	(9-8-7-6)		(9-8-7-6)		(10-9-9-8)		(15-14-13-11)		(17-15-14-12)	
External pressure[2] std (High-Low)		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	OU	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Data values when a filter is not used.

Ducted slim		
Compatible accessories	YIDS006-012B21S	YsIDS015-018B21S
Infrared (IR) receiver kit	CWDIRK01	CWDIRK01
Air filter	KW-PP5Q	KW-PP6Q
3-pin connector cable	PCC-1A	PCC-1A
Connector cable for auxiliary heater control	PCC-CN8-H	PCC-CN8-H
Relay and 3-pin connector kit	PSC-5RA	PSC-5RA
Remote sensor (control)	THM-R2A	THM-R2A

Dedicated outside air systems (DOAS)

Capacity: 96,000 Btu/hr

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.

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

Tonnage			8.0	
Dedicated outside air system (DOAS) unit model #			YIDOA096B21S	
Power supply			AC 1 Phase, 208/230V, 60Hz	
Outlet air temperature control [1]	Nominal cooling capacity	Btu/h	96,000	
		(kW)	(28.2)	
	Nominal heating capacity	Btu/h	60,000	
		(kW)	(17.6)	
Indoor temperature control [2]	Nominal cooling capacity	Btu/h	96,000	
		(kW)	(28.2)	
	Nominal heating capacity	Btu/h	83,600	
		(kW)	(24.5)	
Sound pressure level [3] (overall a scale) (208/230V)		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	Airflow rate[4]	cfm	1236	
		(m^3/min)	(35.0)	
External pressure[4] (208/230V)		in. W.G. (Pa)	1.06/1.24 (265/310)	
Motor nominal output		W	402 (201 x 2pcs)	
Connections				
Refrigerant piping			Brazed	
	Liquid line	in.(mm)	3/8	(9.52)
	Gas line	in.(mm)	7/8	(22.20)
Condensate drain	OU	in.(mm)	1-1/4	(32)

NOTES:

1. Outlet air temperature control
   A control system to bring the outlet temperature closer to the set point temperature of the wired controller, using an outlet air thermistor of the unit. Nominal capacity (outlet air temperature control) is based on combination with VRF system and following conditions:

COOLING OPERATION CONDITIONS		HEATING OPERATION CONDITIONS	
Outdoor Temperature:	91°F DB (33.0°C DB) 82°F WB (28.0°C WB)	Outdoor Temperature:	32°F DB (0°C DB) 27°F WB (-2.9°C WB)
Discharge Set Temperature:	61°F DB (16.0°C DB)	Discharge Set Temperature:	72°F DB (22.0°C DB)
Piping Length:	24.6ft (7.5m)	Piping Lift:	0ft (0m)

2. Indoor temperature control
   A control system to bring the room atmosphere temperature closer to the set point temperature of the wired controller, using a temperature sensor (remote sensor or thermistor in wired controller) mounted to any place in the room. Nominal capacity (indoor temperature control) is based on combination with VRF system and following conditions:

COOLING OPERATION CONDITIONS		HEATING OPERATION CONDITIONS	
Outdoor Temperature:	91°F DB (33.0°C DB) 82°F WB (28.0°C WB)	Outdoor Temperature:	32°F DB (0°C DB) 27°F WB (-2.9°C WB)
Indoor Temperature:	81°F DB (27.0°C DB)	Indoor Temperature:	68°F DB (20.0°C DB)
Piping Length:	24.6ft (7.5m)	Piping Lift:	0ft (0m)

Key features

- Eight-ton unit
- Pre-installed condensate pump
- Nominal airflow of 1,236 CFM
- High external static pressure up to 1.24 in. WG (at 230V) enables design flexibility
- Sensor enables remote reading of air supply temperature
- 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
  - Sensor in optional programmable wired zone controller

Dedicated outdoor air system	
Compatible accessories	YDOA096B21S
Infrared (IR) receiver kit	CWDIRK01
3-pin connector cable	PCC-1A
Relay and 3-pin connector kit	PSC-5RA
Seismic suspension bracket	SSB-IDH01
Remote sensor (control)	THM-R2A

3. The sound pressure level is based on the following conditions.
   4.9 ft. (1.5m) beneath the units.
   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
4. Data values when a filter is not used.

EconoFresh Economizer

The EconoFresh Economizer unit includes the economizer kit and a ducted medium static unit in a choice of three capacities: 30,000, 36,000 or 48,000 Btu/hr.

The exclusive econofresh unit is a combination of a ducted medium static unit paired with an economizer kit to provide up to 100% outside air/free cooling when conditions are favorable. Seamlessly integrating with VRF systems, the unit contributes to energy savings and improves air quality.

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

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) (Hi-Me-Lo)		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	Airflow rate[2] (Hi-Me-Lo)	cfm	1059-953-847		1236-1094-988		1271-1130-1024	
		(m3/min)	(30-27-24)		(35-31-28)		(36-32-29)	
External pressure[2] (High-Med-Low)		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	OU	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
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:

1. Nominal capacity condition is based on AHRI standard. See www.ahrinet.org for more information.
2. Data values when a filter is not used.

Key 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 temperature/humidity
- Remote control setting of the outside air damper opening to ensure minimum outside airflow requirements are met
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- Sensor enables remote reading of air supply temperature

EcoFresh	
Compatible accessories	YIDM030-048B21E
Infrared (IR) receiver kit	CWDIRK01
Air filter	KW-PP456E
3-pin connector cable	PCC-1A
Connector cable for auxiliary heater	PCC-CN8-H
Relay and 3-pin connector kit	PSC-5RA
Remote sensor (control)	THM-R2A

Multi-position air handlers

Multi-Position Air Handler
Capacities: 18,000 to 60,000 Btu/hr
Fully field installed integrated DX-Kit.

Key features

- **RC2:** rigid case construction interior endoskeleton for structural support, flush side, and to lock in insulation
- **Powder painted:** G30 galvanized steel case provides 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:** Models are 20.5" deep which enables easy access even in tight applications
- **Thermoset condensate pan:** Positive slope for condensate to reduce potential for 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
- **Connected:** These are full connected to thethe VRF system through the DX-Kit
- **Remote reading:** The sensor enables remote reading of the air supply temperature

Multi-position air handlers
(continued)

Multi-position air handler with DX-Kit												
Tonnage			1.5		2.0		2.5		3.0			
Model #			YMAHP18B21S		YMAHP24B21S		YMAHP30B21S		YMAHP36B21S		YMAHP36C21S	
Adaptable air handler model #			AP18BX21		AP24BX21		AP30BX21		AP36BX21		AP36CX21	
Indoor unit power supply			AC 1 Phase, 208/230V, 60Hz									
Nominal cooling capacity [1]		Btu/h	18,000		24,000		30,000		36,000		36,000	
		(kW)	(5.3)		(7.0)		(8.8)		(10.5)		(10.5)	
Nominal heating capacity [1]		Btu/h	20,000		27,000		34,000		40,000		40,000	
		(kW)	(5.9)		(7.9)		(10.0)		(11.7)		(11.7)	
Outer dimensions	Height	in.(mm)	41	(1041)	41	(1041)	47-1/2	(1207)	47-1/2	(1207)	51-1/2	(1308)
	Width	in.(mm)	17-1/2	(445)	17-1/2	(445)	17-1/2	(445)	17-1/2	(445)	21	(533)
	Depth	in.(mm)	27-7/16	(545)	27-7/16	(545)	27-7/16	(545)	27-7/16	(545)	27-7/16	(545)
Net weight		lbs.(kg)	85	(39)	87	(40)	113	(51)	113	(51)	114	(52)
Refrigerant			R410A									
Indoor fan	Airflow Rate[2] (Hi-Lo)	cfm	576-382 / 687-500		713-457 / 778-605		843-677 / 917-769		1108-968 / 1178-1057		1110-877 / 1186-974	
		(m^3/min)	(16-11) / (19-14)		(20-13) / (22-17)		(24-19) / (26-22)		(31-27) / (33-30)		(31-25) / (34-28)	
External Pressure[2]		in. W.G.	0.4		0.7		0.7		0.7		0.7	
		(Pa)	(99)		(174)		(174)		(174)		(174)	
Refrigerant Piping	Liquid Line	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas Line[3]	in.(mm)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)	5/8	(15.88)
Condensate Drain	OU	in.(mm)	1-1/16	(26.7)	1-1/16	(26.7)	1-1/16	(26.7)	1-1/16	(26.7)	1-1/16	(26.7)
	IU	in.(mm)	13/16	(20.9)	13/16	(20.9)	13/16	(20.9)	13/16	(20.9)	13/16	(20.9)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Hi and Lo setting on the wired controller. (Hi = air handler's high tap and lo = air handler's medium tap). Make sure both the external pressure and air flow rate match the specification.
3. Gas connection piping diameter of the air handler is changed by using the reducer (accessory of DX-Kit) to connect to VRF system.

Tonnage		1.5		2.0		2.5		3.0	
Adaptable DX-Kit Model #		EXV-018E		EXV-024E		EXV-030E		EXV-036E	
Control box									
Power supply	-	AC208/230V, 1Ph, 60Hz							
Outer dimensions									
Height	in.(mm)	3-3/16	(81)	3-3/16	(81)	3-3/16	(81)	3-3/16	(81)
Width	in.(mm)	12-5/8	(320)	12-5/8	(320)	12-5/8	(320)	12-5/8	(320)
Depth	in.(mm)	7-3/8	(187)	7-3/8	(187)	7-3/8	(187)	7-3/8	(187)
Net weight	lbs.(kg)	6.57	(2.98)	6.57	(2.98)	6.57	(2.98)	6.57	(2.98)
Expansion valve box part									
Power supply	-	DC 12V							
Outer dimensions									
Height	in.(mm)	4-5/16	(109)	4-5/16	(109)	4-5/16	(109)	4-5/16	(109)
Width	in.(mm)	17-1/16	(433)	17-1/16	(433)	17-1/16	(433)	17-1/16	(433)
Depth	in.(mm)	5-5/16	(151)	5-5/16	(151)	5-5/16	(151)	5-5/16	(151)
Net weight	lbs.(kg)	8.84	(4.01)	8.84	(4.01)	8.84	(4.01)	8.84	(4.01)
Refrigerant		R410A							
Refrigerant piping	-								
Liquid line in	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
Liquid line out	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)

Multi-position air handlers
(continued)

Multi-position air handler with DX-Kit												
Tonnage			4.0				5.0					
Model #			YMAHP48C21S		YMAHP48D21S		YMAHP60C21S		YMAHP60D21S		YMAHP60D22S	
Adaptable air handler model #			AP48CX21		AP48DX21		AP60CX21		AP60DX21		AP60DX22	
Indoor unit power supply			AC 1 Phase, 208/230V, 60Hz									
Nominal cooling capacity [1]		Btu/h	48,000		48,000		60,000		60,000		60,000	
		(kW)	(14.1)		(14.1)		(17.6)		(17.6)		(17.6)	
Nominal heating capacity [1]		Btu/h	54,000		54,000		64,000		64,000		64,000	
		(kW)	(15.8)		(15.8)		(18.8)		(18.8)		(18.8)	
Outer dimensions	Height	in.(mm)	51-1/2	(1308)	51-1/2	(1410)	51-1/2	(1416)	51-1/2	(1410)	51-1/2	(1410)
	Width	in.(mm)	21	(533)	24-1/2	(622)	21	(533)	24-1/2	(622)	24-1/2	(622)
	Depth	in.(mm)	27-7/16	(545)	27-7/16	(545)	27-7/16	(545)	27-7/16	(545)	27-7/16	(545)
Net weight		lbs.(kg)	150	(68)	153	(69)	146	(66)	170	(77)	170s	(77)
Refrigerant			R410A									
Indoor fan (208/230V)	Airflow rate[2] (Hi-Lo)	cfm	1062-971 / 1190-1059		1391-1139 / 1481-1258		1680-1562 / 1739-1659		1701-1590 / 1779-1694		1757-1639 / 1829-1735	
		(m^3/min)	(30-28) / (34-30)		(39-32) / (42-36)		(48-44) / (49-47)		(48-45) / (50-48)		(50-46) / (52-49)	
External pressure[2]		in. W.G.	0.7		0.7		0.4		0.4		0.4	
		(Pa)	(174)		(174)		(99)		(99)		(99)	
Refrigerant piping	Liquid line	in.(mm)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)	3/8	(9.52)
	Gas line[3]	in.(mm)	5/8	(15.88)	5/8	(15.88)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)
Condensate drain	OU	in.(mm)	1-1/16	(26.7)	1-1/16	(26.7)	1-1/16	(26.7)	1-1/16	(26.7)	1-1/16	(26.7)
	IU	in.(mm)	13/16	(20.9)	13/16	(20.9)	13/16	(20.9)	13/16	(20.9)	13/16	(20.9)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Hi and Lo setting on the wired controller. (Hi = Air Handler's High tap and Lo = Air Handler's Medium tap). Make sure both the external pressure and air flow rate match the specification.
3. Gas connection piping diameter of the air handler is changed by using the reducer (accessory of DX-Kit) to connect to VRF system.

Tonnage		4.0		5.0	
Adaptable DX-Kit model #		EXV-048E		EXV-060E	
Control box					
Power supply	-	AC208/230V, 1Ph, 60Hz			
Outer dimensions					
Height	in.(mm)	3-3/16	(81)	3-3/16	(81)
Width	in.(mm)	12-5/8	(320)	12-5/8	(320)
Depth	in.(mm)	7-3/8	(187)	7-3/8	(187)
Net weight	lbs.(kg)	6.57	(2.98)	6.57	(2.98)
Expansion valve box part					
Power supply	-	DC 12V			
Outer dimensions					
Height	in.(mm)	4-5/16	(109)	4-5/16	(109)
Width	in.(mm)	17-1/16	(433)	17-1/16	(433)
Depth	in.(mm)	5-5/16	(151)	5-5/16	(151)
Net weight	lbs.(kg)	8.84	(4.01)	8.84	(4.01)
Refrigerant		R410A			
Refrigerant piping	-				
Liquid line in	in.(mm)	3/8	(9.52)	3/8	(9.52)
Liquid line out	in.(mm)	3/8	(9.52)	3/8	(9.52)

Multi-position air handler	
Compatible accessories	YMAHP 018-060 (B,C,D)2(1,2)S
Electric heater kit	6HK Series (UPG)
Infrared (IR) Receiver kit	CWDIRK01
3-pin connector cable	PCC-1A
Connector cable for auxiliary heater	PCC-CN1925
Relay and 3-pin connector kit	PSC-5RA
Remote sensor (control)	THM-R2A

DX-Kit for general AHU connection

The DX-Kit seamlessly connects YORK VRF equipment with third-party air handling units (AHU). The kit consists of a control box and expansion valve box.

Key features

- Combines VRF system with third-party AHU
- Provides three types of AHU temperature control:
  - Inlet air
  - Outlet air
  - External signal control
- Compatible with multiple AHU types including return air, return air/outside air mix, and heat recovery
- Flexible installation for expansion valve box and control box with IP54 enclosure rating

Indoor unit type		DX-Kit for general AHU connection					
Tonnage		1.3	2.5	4.0	8.0[2]	16.0[2]	24.0[2]
Model #		DXF-015A1	DXF-030A1	DXF-048A1	DXF-096A1	DXF-192A1	DXF-288A1
Control box							
Power supply	-	AC208/230V, 1Ph, 60Hz					
Height	in.(mm)	4-7/16 (112)					
Width	in.(mm)	17-1/8 (435)					
Depth	in.(mm)	13-3/4 (349)					
Weight	lbs.(kg)	11.5 (5.2)					
Quantity	Qty	1					
Expansion valve box							
Power supply	-	2-3/8 (61)					
Height	in.(mm)	17-3/16 (437)					
Width	in.(mm)	6-9/16 (166)					
Depth	in.(mm)	3.7 (1.7)					
Weight	lbs.(kg)	Φ 1/4 (6.35)	Φ 3/8 (9.52)			Φ 1/2 (12.7)	
Quantity	Qty	1					2
Acceptable AHU							
Nominal heat exchanger capacity [1]	MBH	15	30	48	72/96	108/120/144/168/192	204/216/240/264/288
Suction temperature Range	Cooling °F (°C)	DB: 69 to 89 (21 to 32), WB: 59 to 73 (15 to 23)					
	Heating °F (°C)	DB: 59 to 80 (15 to 27)					
Connection ratio	-	1 OU to 1 AHU: 100% or less, 1 OU to Multiple AHU: 100% or less, 1 OU to AHUs and IUs: 100% or less					

NOTES:
1. DIP-switch on the PCB of DX-Kit must be set to the nominal heat exchanger capacity of the AHU. Refer to the installation manual for detail.
2. Can use multiple capacities.

Multi-air multi-position air handler units (built-in control box type)

Fit more spaces with greater ease

It's faster, easier, and less expensive to solve application challenges with the new multi-position AHU.

Available in capacities ranging from 0.7 to 5 tons, this unit provides a flexible solution for applications ad diverse as single hotel rooms or entire houses.

Available in three sizes – small, medium, and large – this unit provides the flexibility for installation in any upflow or horizontal application. Compact cabinets, along with return air options in both the upflow and horizontal positions, allow this unit to fit into tight spaces such as closets, attics, and crawl spaces.

Key features

- Refrigerant components pre-installed, single point of power pre-installed for all sizes
- Electrical components and expansion valve are built in and ready to go
- Available with factory installed electric heating coils
- Pre-painted steel on the top, coil, and blower doors and heavy-gauge embossed galvanized steel cabinet casing resist corrosion and rust creep
- Insulated with one-inch R-4.5 insulation that delivers lasting performance and efficiency
- Blowers are sized to circulate air both quietly and efficiently. The motor is four-tap constant torque motor (ECM)
- The rifled copper tube and aluminum fin coils produce high performance ratings and provide long-lasting quality by using the latest in heat transfer technology
- External static pressure can be selected for high (0.8 in. WG) or standard (0.4 in. WG)
- Connectable condensate pump is supplied in the field

Variable refrigerant flow systems | Indoor units

Multi-air multi-position air handler units (built-in control box type)

Tonnage			0.7		1.0		1.5		2.0	
Model #			TIAH008B22M		TIAH012B22M		TIAH018B22M		TIAH024B22M	
Indoor unit power supply			AC 1Phase, 208/230V, 60Hz							
Nominal cooling capacity [1]		Btu/h	8,000		12,000		18,000		24,000	
		(kW)	(2.4)		(3.6)		(5.3)		(7.1)	
Nominal heating capacity [1]		Btu/h	9,000		13,500		20,000		27,000	
		(kW)	(2.7)		(4.0)		(5.9)		(8.0)	
Sound power level [2] (overall a scale) (H-Lo)		dB	TBD		TBD		TBD		TBD	
Outer dimensions	Height	in. (mm)	43	(1092)	43	(1092)	43	(1092)	43	(1092)
	Width	in. (mm)	17-1/2	(445)	17-1/2	(445)	17-1/2	(445)	17-1/2	(445)
	Depth	in. (mm)	21	(533)	21	(533)	21	(533)	21	(533)
Net weight		lbs. (kg)	96	(44)	98	(44)	106	(48)	106	(48)
Refrigerant			R410A							
Indoor fan	Airflow rate (Hi-Lo)	cfm	350-250		430-300		690-440		800-530	
		(m^3/min)	(9.9-7.1)		(12.2-8.5)		(19.5-12.5)		(22.7-15.0)	
External pressure [3] (standard-high)		in. W.G.	0.4-0.8		0.4-0.8		0.4-0.8		0.4-0.8	
		(Pa)	(100-199)		(100-199)		(100-199)		(100-199)	
Motor nominal output		HP	1/3		1/3		1/3		1/3	
Connections										
Refrigerant piping			Brazing							
	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	(12.7)	1/2	(12.7)	5/8	(15.88)	5/8	(15.88)
Condensate drain	OD	in. (mm)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

NOTES:

1 Nominal capacity is based on combinations within the VRF system under the following conditions:

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)

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

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)

2 The sound power level is based on AHRI 260. The sound data is measured when the External Static Pressure is High setting.

3 The data for external pressure indicates the values when a filter is not used.

Multi-air multi-position air handler units (built-in control box type)

Tonnage			2.5		3.0		4.0		5.0	
Model #			TIAH030B22M		TIAH036B22M		TIAH048B22M		TIAH060B22M	
Indoor unit power supply			AC 1Phase, 208/230V, 60Hz							
Nominal cooling capacity [1]		Btu/h	30,000		36,000		48,000		60,000	
		(kW)	(8.8)		(10.6)		(14.1)		(17.6)	
Nominal heating capacity [1]		Btu/h	34,000		40,000		54,000		64,000	
		(kW)	(10.0)		(11.8)		(15.8)		(18.8)	
Sound power level [2] (overall a scale) (H-Lo)		dB	TBD		TBD		TBD		TBD	
Outer dimensions	Height	in. (mm)	48	(1219)	48	(1219)	58-3/4	(1492)	58-3/4	(1492)
	Width	in. (mm)	21	(533)	21	(533)	24-1/2	(622)	24-1/2	(622)
	Depth	in. (mm)	21	(533)	21	(533)	21-3/4	(553)	21-3/4	(553)
Net weight		lbs (kg)	126	(57)	126	(57)	168	(76)	168	(76)
Refrigerant			R410A							
Indoor fan	Airflow rate (Hi-Lo)	cfm	1000-700		1050-750		1520-1060		1800-1260	
		(m^3/min)	(28.3-19.8)		(29.7-21.2)		(43.0-30.0)		(51.0-35.7)	
External pressure [3] (standard-high)		in. W.G.	0.4-0.8		0.4-0.8		0.4-0.8		0.4-0.8	
		(Pa)	(100-199)		(100-199)		(100-199)		(100-199)	
Motor nominal output		HP	1/2		1/2		3/4		3/4	
Connections										
Refrigerant piping			Brazing							
	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)	3/4	(19.05)
Condensate drain	OD	in. (mm)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)	3/4	(19.05)

NOTES:

1 Nominal capacity is based on combinations within the VRF system under the following conditions:

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: 24.6 ft. (7.5m)

Piping Lift: 0ft. (0m)

2 The sound power level is based on AHRI 260. The sound data is measured when the External Static Pressure is High setting.

3 The data for external pressure indicates the values when a filter is not used.

Multi-position air handler (built-in control box type)					
Compatible accessories		TIAH008,012B22M	TIAH018,024B22M	TIAH030,036B22M	TIAH048B22M	TIAH060B22M
Filter base kit		86ET0002		86ET0001	86ET0003	
Downflow conversion kit		DFK-S-JH		DFK-M-JH	DFK-L-JH	
Electrical heater kit	2 kW	BSEHK-02B-JH	BSEHK-02B-JH	-	-	-
	3 kW	-	BSEHK-03B-JH	BMEHK-03B-JH	-	-
	5 kW	-	-	BMEHK-05B-JH	BLEHK-05B-JH	BLEHK-05B-JH
	8 kW	-	-	-	BLEHK-08B-JH	BLEHK-08B-JH
	10 kW	-	-	-	-	BLEHK-10B-JH
Infrared receiver (IR) kit		CWDIRK01				
3-pin connector cable		PCC-1A				
Relay and 3-pin connector kit		PSC-5RA				
Remote sensor (control)		THM-R2A				

1-way cassette Non-ducted

Capacities 6,000 to 15,000 Btu/hr

Controller options

MODEL CIR01

MODEL CIS01

MODEL CIW01

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

Key features

- Sensor enables remote reading of air supply temperature
- Automatic swing louver distributes airflow evenly for uniform temperature
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Optional energy-saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy

Tonnage				0.5		0.7		1.0		1.3	
1-way cassette indoor unit model #				YIC1006B2(1,2)S		YIC1008B2(1,2)S		YIC1012B2(1,2)S		YIC1015B2(1,2)S	
Power supply				AC 1 Phase, 208/230V, 60Hz							
Nominal cooling capacity [1]		Btu / h	(kW)	6000	(1.8)	8000	(2.3)	12000	(3.5)	15000	(4.4)
Nominal heating capacity [1]		Btu / h	(kW)	6700	(2.0)	9000	(2.6)	13500	(4.0)	17000	(5.0)
Sound pressure level [2] (overall a scale) (Hi2-Hi-Me-Lo)		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	Airflow rate (Hi2-Hi-Me-Lo)	cfm		300-265-229-212		335-300-265-229		459-406-353-300		512-459-388-335	
		(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)	
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	OU	in.	(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
Adjustable panel model name				P-AP36CNA				P-AP56CNA			
Applicable indoor unit model				YIC1006B2(1,2)S and HIC1008B2(1,2)S				YIC1012B2(1,2)S and YIC1015B2(1,2)S			
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:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

1-way cassette			
Compatible accessories	YIC1006-015B2(1,2)S	Compatible accessories	YIC1006-015B2(1,2)S
Infrared (IR) receiver kit	C1IRK01	Air outlet shuttler plate	PIS-56LS
Grille for front discharge	DG-56SW1	Relay and 3-pin connector kit	PSC-5RA
3-pin connector cable	PCC-1A	Motion sensor kit (for 1-way cassette)	SOR-NES
Connector cable for auxiliary heater	PCC-CN8-H	Remote sensor (control)	THM-R2A
Duct adapter	PD-100		

2-way cassette Non-ducted

Capacities 18,000 to 24,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

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 brings conditioned comfort to a variety of room layouts.

Key features

- Nominal capacity of 18 or 24 MBH
- Compact design - requires only 11-3/4" height
- Energy-efficient DC fan motor
- Standard integrated condensate DC drain pump with 33-7/16 inch lift height
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Sensor enables remote reading of air supply temperature
- Optional energy-saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy
- Optional air filter box

Tonnage				1.5		2.0	
2-way cassette indoor unit model #				YIC2018B21S		YIC2024B21S	
Power supply				AC 1 Phase, 208/230V, 60Hz			
Nominal cooling capacity [1]		Btu/h	(kW)	18,000	(5.3)	24,000	(7.0)
Nominal heating capacity [1]		Btu/h	(kW)	20,000	(5.9)	27,000	(7.9)
Sound pressure level [2] (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	Airflow rate (Hi2-Hi-Me-Lo)	cfm		653-582-512-441		777-688-582-459	
		(m^3/min)		(18.5-16.5-14.5-12.5)		(22-19.5-16.5-13)	
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	OU	in.	(mm)	1-1/4	(32)	1-1/4	(32)
Adaptable panel model				P-AP90DNA			
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		(710)	
Net weight		in.	(mm)	16.5		(7.5)	

2-way cassette	
Compatibility accessories	YIC2018-024B21S
Filter box	B-90HD
IR receiver kit	C2IRK01
3-pin connector cable	PCC-1A
Connector cable for auxiliary heater	PCC-CN8-H
Duct adapter	PD-150D
Relay and 3-pin connector kit	PSC-5RA
Motion sensor kit (for 2-way cassette)	SOR-NED
Remote sensor (control)	THM-R2A

NOTES:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Variable refrigerant flow systems | Indoor units

4-way mini-cassette Non-ducted

Capacities 8,000 to 18,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

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.

Key features

- High-performance and high-efficiency heat exchanger
- Efficient turbo fan for low-noise performance
- Wide range of air flow settings
- Motorized two-, three-, or four-channel airflow louvers with louver kit
- Auxiliary/emergency heater control
- Cooling and heating auto-changeover dual-setpoint control
- Setback temperature control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- 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[1]		Btu / h	(kW)	8,000	(2.3)	12,000	(3.5)	15,000	(4.4)	18,000	(5.3)
Nominal heating capacity[1]		Btu / h	(kW)	9,000	(2.6)	13,500	(4.0)	17,000	(5.0)	20,000	(5.9)
Sound pressure level [2] (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	Airflow rate (Hi2-Hi-Me-Lo)	cfm		424-353-300-212		459-388-335-247		530-424-353-282		565-494-424-353	
		(m^3/min)		(12-10-8.5-6)		(13-11-9.5-7)		(15-12-10-8)		(16-14-12-10)	
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	OU	in.	(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)
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:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

4-Way mini cassette	
Compatible accessories	YICM008-018B21S
IR receiver kit	CMIRK01
3-pin connector cable	PCC-1A
Connector cable for auxiliary heater	PCC-CN8-H
Duct adaptor	PD-75C
Relay and 3-pin connector kit	PSC-5RA
Motion sensor kit (for mini 4-way cassette)	SOR-NEC
Remote sensor (control)	THM-R2A

4-way cassette Non-ducted

Capacities: 8,000 to 48,000 Btu/hr

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.

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

Tonnage			0.7		1.0		1.3		1.5	
4-way cassette indoor unit model #			YIC4008B21S		YIC4012B21S		YIC4015B21S		YIC4018B21S	
Power supply			AC 1Phase, 208/230V, 60Hz							
Nominal cooling capacity [1]		Btu/h	8,000		12,000		15,000		18,000	
		(kW)	(2.3)		(3.5)		(4.4)		(5.3)	
Nominal heating capacity [1]		Btu/h	9,000		13,500		17,000		20,000	
		(kW)	(2.6)		(4.0)		(5.0)		(5.8)	
Sound pressure level [2] (overall a scale) (Hi2-Hi-Me-Lo)		dB	33-30-28-27		35-31-30-27		37-32-30-27		42-36-32-28	
Outer dimensions	Height	in. (mm)	9-3/4	(248)	9-3/4	(248)	9-3/4	(248)	9-3/4	(248)
	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)	44	(20)	46	(21)	46	(21)	48	(22)
Refrigerant			R410A							
Indoor fan	Airflow rate (Hi2-Hi-Me-Lo)	cfm	530-459-388-318		741-600-494-388		777-600-494-388		953-777-635-494	
		(m^3/min)	(15-13-11-9)		(21-17-14-11)		(22-17-14-11)		(27-22-18-14)	
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	OU	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

4-way cassette	
Compatible accessories	YIC4008-48B21S
Filter box	B-160H3
IR receiver kit	C4IRK01
Fresh air intake kit (for 4-way cassette)	OACI-160K3
3-pin connector cable	PCC-1A
Connector cable for auxiliary heater	PCC-CN8-H
Duct adapter	PD-75A
Air outlet shutter plate	PI-160LS2
Relay and 3-pin connector kit	PSC-5RA
Remote sensor (control)	THM-R2A
T-tube connecting kit	TKCI-160K

4-way cassette Non-ducted (continued)

Key features

- Multiple fan speed settings
- Air filter included
- 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 in all units
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Sensor enables remote reading of air supply temperature
- Motorized 2-, 3- or 4-channel air flow louvers with louver kit
- Optional energy-saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy
- Optional fresh air kit available

Tonnage			2.0		2.5		3.0		4.0	
4-way cassette indoor unit model #			YIC4024B21S		YIC4030B21S		YIC4036B21S		YIC4048B21S	
Power supply			AC 1Phase, 208/230V, 60Hz							
Nominal cooling capacity [1]		Btu/h	24,000		30,000		36,000		48,000	
		(kW)	(7.0)		(8.8)		(10.5)		(14.1)	
Nominal heating capacity [1]		Btu/h	27,000		34,000		40,000		54,000	
		(kW)	(7.9)		(10.0)		(11.7)		(15.8)	
Sound pressure level [2] (overall a scale) (Hi2-Hi-Me-Lo)		dB	42-36-32-28		48-43-39-33		48-45-40-35		48-46-41-37	
Outer dimensions	Height	in. (mm)	11-3/4	(298)	11-3/4	(298)	11-3/4	(298)	11-3/4	(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)	57	(26)	57	(26)	57	(26)	57	(26)
Refrigerant			R410A							
Indoor fan	Airflow rate	cfm	953-812-635-494		1306-1094-847-706		1306-1165-918-741		1306-1236-988-777	
	(Hi2-Hi-Me-Lo)	(m^3/min)	(27-23-18-14)		(37-31-24-20)		(37-33-26-21)		(37-35-28-22)	
Motor nominal output		W	57		127		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	OU	in.(mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Adaptable panel model (applies to all models)			P-AP160NA2 (Without motion and radiant heat sensors)		P-AP160NAE1 (With motion and radiant heat sensors)	
Colour			Neutral white			
Outer dimensions	Height	in. (mm)	1-9/16	(40)	1-9/16	(40)
	Width	in. (mm)	37-3/8	(950)	37-3/8	(950)
	Depth	in. (mm)	37-3/8	(9 (950) 50)	37-3/8	(950)
Net weight		lbs. (kg)	14	(6.5)	14	(6.5)

Wall-mounted Non-ducted

Capacities: 6,000 to 30,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

Wall-mounted 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. Condensate piping can be connected at the right, left or rear of the unit for ease of installation.

Key features

- Removable front panel for easy cleaning.
- Built-in wireless sensor for use with optional wireless zone controller
- Auxiliary/emergency heater control
- Setback temperature control
- Cooling and heating auto-changeover dual-setpoint control
- GentleCool: feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Sensor enables remote reading of air supply temperature
- Optional condensate pump

Tonnage			0.5		0.7		1.0		1.3	
Wall-mounted indoor unit model #			TIWM006B2(1,2)S		TIWM008B2(1,2)S		TIWM012B2(1,2)S		TIWM015B21S	TIWM015B22S
Power supply			AC 1Phase, 208/230V, 60Hz							
Nominal cooling capacity [1]		Btu/h	6,000		8,000		12,000		15,000	
		(kW)	(1.8)		(2.3)		(3.5)		(4.4)	
Nominal heating capacity [1]		Btu/h	6,700		9,000		13,500		17,000	
		(kW)	(2.0)		(2.6)		(4.0)		(5.0)	
Sound pressure level [2] (overall a scale) (Hi2-Hi-Me-Lo)		dB	39-35-32-30		39-35-32-30		46-40-36-33		42-40-38-33	40-37-34-31
Outer dimensions	Height	in.(mm)	11-13/16	(300)	11-13/16	(300)	11-13/16	(300)	13-1/8 (333)	11-13/16 (300)
	Width	in.(mm)	31-1/8	(790)	31-1/8	(790)	35-7/16	(900)	45-1/4 (1150)	43-5/16 (1100)
	Depth	in.(mm)	9-1/16	(230)	9-1/16	(230)	9-1/16	(230)	9-5/8 (245)	10-1/4 (260)
Net weight		lbs.(kg)	22	(10)	22	(10)	24	(11)	35 (16)	32 (15)
Refrigerant			R410A							
Indoor fan	Airflow rate (Hi2-Hi-Me-Lo)	cfm	353-282-247-229		353-282-247-229		494-388-318-265		530-494-459-353	512-459-388-335
		(m^3/min)	(10-8-7-6.5)		(10-8-7-6.5)		(14-11-9-7.5)		(15-14-13-10)	(14.5-13-11-9.5)
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)	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)	1/2 (12.70)
Condensate drain	OU	in.(mm)	7/8	(22)	7/8	(22)	7/8	(22)	7/8 (22)	7/8 (22)
	IU	in.(mm)	5/8	(16)	5/8	(16)	5/8	(16)	5/8 (16)	5/8 (16)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 3.3ft (1m) Front of the Unit and 3.3ft (1m) Below the Unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Wall-mounted indoor unit	
Compatible accessories	TIWM006-015B22S / TIWM018-030B22S
Infrared (IR) receiver kit	CWDIRK01 / CWDIRK01
Strainer kit	MSF-NP63A / MSF-NP112A
3-pin connector cable	PCC-1A / PCC-1A
Connector cable for auxiliary heater	PCC-CN8-H / PCC-CN8-H
Relay and 3-pin connector kit	PSC-5RA / PSC-5RA
Remote sensor (control)	THM-R2A / THM-R2A

Wall-mounted Non-ducted (continued)

Tonnage			1.5		2.0		2.5	
Wall-mounted indoor unit model #			TIWM018B21S	TIWM018B22S	TIWM024B21S	TIWM024B22S	TIWM030B21S	TIWM030B22S
Power supply			AC 1Phase, 208/230V, 60Hz					
Nominal cooling capacity [1]		Btu/h	18,000		24,000		30,000	
		(kW)	(5.3)		(7.0)		(8.8)	
Nominal heating capacity [1]		Btu/h	20,000		27,000		34,000	
		(kW)	(5.8)		(7.9)		(10.0)	
Sound pressure level [2] (overall a scale) (Hi2-Hi-Me-Lo)		dB	49-43-40-36	45-42-38-35	51-49-46-41	49-46-42-38	51-49-46-41	51-48-44-39
Outer dimensions	Height	in.(mm)	13-1/8 (333)	11-13/16 (300)	13-1/8 (333)	11-13/16 (300)	13-1/8 (333)	11-13/16 (300)
	Width	in.(mm)	45-1/4 (1150)	43-5/16 (1100)	45-1/4 (1150)	43-5/16 (1100)	45-1/4 (1150)	43-5/16 (1100)
	Depth	in.(mm)	9-5/8 (245)	10-1/4 (260)	9-5/8 (245)	10-1/4 (260)	9-5/8 (245)	10-1/4 (260)
Net weight		lbs.(kg)	37 (17)	33 (15)	37 (17)	33 (15)	37 (17)	33 (15)
Refrigerant			R410A					
Indoor fan	Airflow rate (Hi2-Hi-Me-Lo)	cfm	671-600-494-424	653-582-494-423	777-671-600-530	759-670-582-494	777-671-600-530	812-706-618-512
		(m^3/min)	(19-17-14-12)	(18.5-16.5-14-12)	(22-19-17-15)	(21.5-19-16.5-14)	(22-19-17-15)	(23-20-17.5-14.5)
Motor nominal output		W	38		38		38	
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)	
	Gas line	in.(mm)	5/8 (15.88)		5/8 (15.88)		5/8 (15.88)	
Condensate drain	OU	in.(mm)	7/8 (22)		7/8 (22)		7/8 (22)	
	IU	in.(mm)	5/8 (16)		5/8 (16)		5/8 (16)	

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 3.3ft (1m) front of the unit and 3.3ft (1m) below the unit. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Ceiling suspended Non-ducted

Capacities 15,000 to 36,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

Ceiling suspended indoor units have a stylized design and color that 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

- New fan design for high efficiency and low noise
- Flexible installation for high ceilings
- Cooling and heating auto-changeover dual-setpoint control
- Setback temperature control
- Auxiliary/emergency heater control
- Sensor enables remote reading of air supply temperature
- GentleCool feature enables discharge air temperature to be set, eliminating the rush of cold air that can occur when air conditioning first comes on for more comfortable cooling
- Optional energy-saving motion and radiant heat sensor for optimized airflow and temperature control in response to room occupancy

Tonnage				1.3		2.0		2.5		3.0	
Ceiling suspended indoor unit model #				YICS015B2(1,2)S		YICS024B2(1,2)S		YICS030B2(1,2)S		YICS036B2(1,2)S	
Power supply				AC 1Phase, 208/230V, 60Hz							
Nominal cooling capacity [1]		Btu / h	(kW)	15,000	(4.4)	24,000	(7.0)	30,,000	(8.8)	36,000	(10.5)
Nominal heating capacity [1]		Btu / h	(kW)	17,000	(5.0)	27,000	(7.9)	34,000	(10.0)	40,000	(11.7)
Sound pressure level [2] (overall a scale) (Hi2-Hi-Me-Lo)		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	Airflow rate (Hi2-Hi-Me-Lo)		cfm	530-459-388-318		847-741-635-512		1059-935-777-600		1236-1094-900-706	
			(m^3/min)	(15-13-11-9)		(24-21-18-14.5)		(30-26.5-22-17)		(35-31-25.5-20)	
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	OU		in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Ceiling suspended			
Compatible accessories	YICS015B2(1,2)S	YICS024B2(1,2)S	YHICS030-036B2(1,2)S
Filter box	B-56MP	B-90MP	B-160MP
IR receiver kit	CSIRK01	CSIRK01	CSIRK01
Condensate pump kit	DUPC-63K1	DUPC-160K1	DUPC-160K1
3-pin connector cable	PCC-1A	PCC-1A	PCC-1A
Connector cable for auxiliary heater	PCC-CN8-H	PCC-CN8-H	PCC-CN8-H
Duct adapter	PD-100	PD-100	PD-100
Relay and 3-pin connector kit	PSC-5RA	PSC-5RA	PSC-5RA
Motion sensor kit (for ceiling suspended)	SOR-NEP	SOR-NEP	SOR-NEP
Remote sensor (control)	THM-R2A	THM-R2A	THM-R2A

Floor exposed Non-ducted

Capacities 6,000 to 15,000 Btu/hr

Controller options

MODEL CIR01 MODEL CIS01 MODEL CIW01

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

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
- Setback temperature control
- Sensor enables remote reading of air supply temperature
- Auxiliary/emergency heater control
- Cooling and heating auto-changeover dual-setpoint control

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 [1]		Btu / h	(kW)	6,000	(1.8)	8,000	(2.3)	12,000	(3.5)	15,000	(4.4)
Nominal heating capacity [1]		Btu / h	(kW)	6,700	(2.0)	9,000	(2.6)	13,500	(4.0)	17,000	(5.0)
Sound pressure level [2] (Overall a scale) (Hi-Me-Lo)		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	Airflow rate (Hi-Me-Lo)		cfm	300-247-212		300-247-212		424-353-318		565-494-388	
			(m^3 /min)	(8.5-7-6)		(8.5-7-6)		(12-10-9)		(16-14-11)	
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	OU		in. (mm)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)	1-1/4	(32)

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. The sound pressure level is based on the following conditions: 4.9 ft. (1.5m) beneath the units. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Floor exposed	
Compatible accessories	YIFE006-015B21S
Infrared (IR) receiver kit	CWDIRK01
3-pin connector cable	PCC-1A
Connector cable for auxiliary heater	PCC-CN1925-H
Relay and 3-pin connector kit	PSC-5RA
Remote sensor (control)	THM-R2A

Air-source outdoor units

Smart solutions for discerning customers

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 are capable to be operated in quiet mode.

Variable refrigerant flow systems | Air-source outdoor units

YORK VRF outdoor units

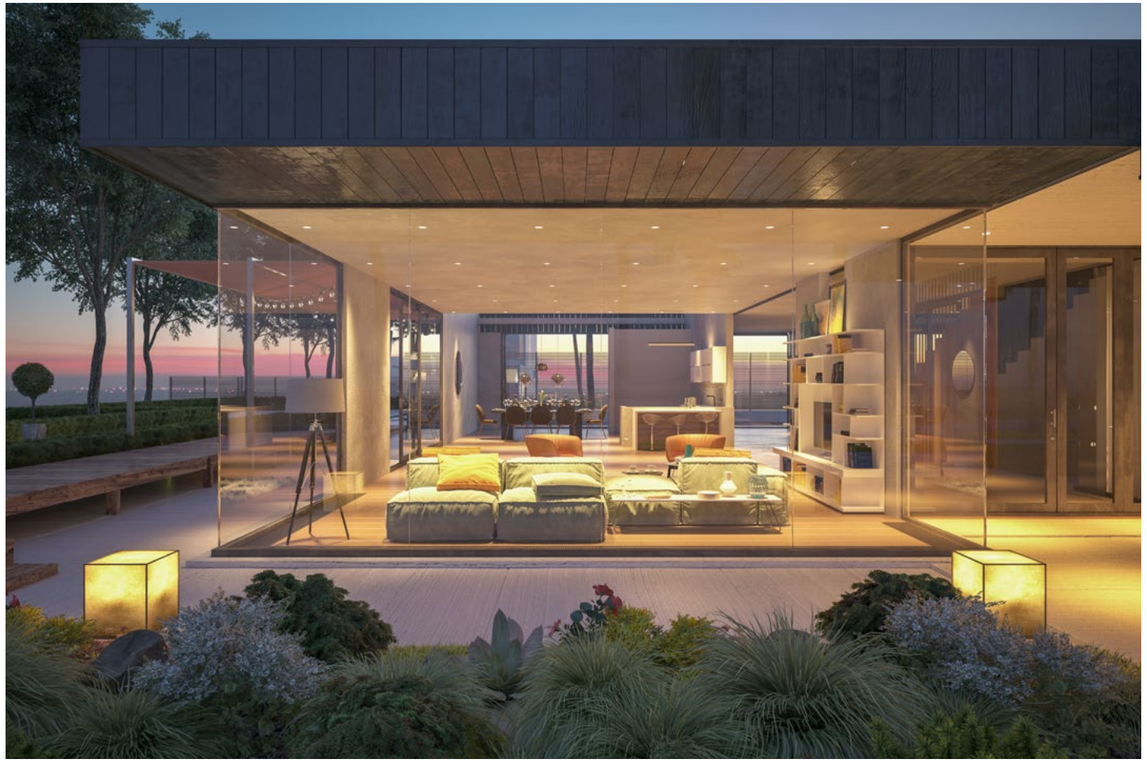
The YORK VRF outdoor units line features:

- **A wide operating range** to suit a range of climates
- **Connection ratios up to 150 percent** and vertical piping extending up to 360 feet for ultimate design flexibility
- **Capacities from six to 36 tons** to meet diverse application requirements
- **Dual inverter driven compressors** (in eight-, 10-, 12-, 14- and 16-ton modules) for increased efficiency
- **Compact design** for easy installation and design flexibility
- **Higher capacities** at low and high ambient temperatures
- **Smooth drive control** for improved comfort and efficiency

All six-ton or greater outdoor units feature:

- **Long refrigerant piping lengths** – up to 3,281 feet total pipe run and vertical distance of 360′ when outdoor unit is above indoor unit
- **Continuous heating during defrost operation** for multimodule heat recovery systems.
- **Ability 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 button

YORK VRF air-source outdoor units, in capacities from 3.0 (mini-VRF) to 36 tons with modular system combinations, include heat-pump and heat recovery units. Heat pump units can either heat or cool spaces while heat recovery units enable simultaneous heating and cooling of different zones.



Overview

YORK VRF outdoor units provide maximum flexibility for modular design.

Heat recovery models 208/230V

6- to 16-ton single-module systems

6-ton YVAHR072B32S
8-ton YVAHR096B32S
10-ton YVAHR120B32S
12-ton YVAHR144B32S
14-ton YVAHR168B32S
16-ton YVAHR192B32S

18- to 30-ton double-module systems

18-ton YVAHR216B32S
20-ton YVAHR240B32S
22-ton YVAHR264B32S
24-ton YVAHR288B32S
26-ton YVAHR312B32S
28-ton YVAHR336B32S
30-ton YVAHR360B32S

32- to 36-ton triple-module systems

32 -ton YVAHR384B32S
34-ton YVAHR408B32S
36-ton YVAHR432B32S

Heat recovery models 460V

6- to 16-ton single-module systems

6-ton YVAHR072B42S
8-ton YVAHR096B42S
10-ton YVAHR120B42S
12-ton YVAHR144B42S
14-ton YVAHR168B42S
16-ton YVAHR192B42S

18- to 30-ton double-module systems

18-ton YVAHR216B42S
20-ton YVAHR240B42S
22-ton YVAHR264B42S
24-ton YVAHR288B42S
26-ton YVAHR312B42S
28-ton YVAHR336B42S
30-ton YVAHR360B42S

32- to 36-ton triple-module systems

32-ton YVAHR384B42S
34-ton YVAHR408B42S
36-ton YVAHR432B42S

Heat recovery models 575V

6- to 16-ton single-module systems

6-ton YVAHR072B52S
8-ton YVAHR096B52S
10-ton YVAHR120B52S
12-ton YVAHR144B52S
14-ton YVAHR168B52S
16-ton YVAHR192B52S

18- to 30-ton double-module systems

18-ton YVAHR216B52S
20-ton YVAHR240B52S
22-ton YVAHR264B52S
24-ton YVAHR288B52S
26-ton YVAHR312B52S
28-ton YVAHR336B52S
30-ton YVAHR360B52S

32- to 36-ton triple-module systems

32-ton YVAHR384B52S
34-ton YVAHR408B52S
36-ton YVAHR432B52S

Heat pump models 208/230V

6- to 16-ton single-module systems

6-ton YVAHP072B32S
8-ton YVAHP096B32S
10-ton YVAHP120B32S
12-ton YVAHP144B32S
14-ton YVAHP168B32S
16-ton YVAHP192B32S

18- to 30-ton double-module systems

18-ton YVAHP216B32S
20-ton YVAHP240B32S
22-ton YVAHP264B32S
24-ton YVAHP288B32S
26-ton YVAHP312B32S
28-ton YVAHP336B32S
30-ton YVAHP360B32S

32- to 36-ton triple-module systems

32-ton YVAHP384B32S
34-ton YVAHP408B32S
36-ton YVAHP432B32S

Heat pump models 460V

6-16 Ton single module systems

6-ton YVAHP072B42S
8-ton YVAHP096B42S
10-ton YVAHP120B42S
12-ton YVAHP144B42S
14-ton YVAHP168B42S
16-ton YVAHP192B42S

18- to 30-ton double-module systems

18-ton YVAHP216B42S
20-ton YVAHP240B42S
22-ton YVAHP264B42S
24-ton YVAHP288B42S
26-ton YVAHP312B42S
28-ton YVAHP336B42S
30-ton YVAHP360B42S

32- to 36-ton triple-module systems

32-ton YVAHP384B42S
34-ton YVAHP408B42S
36-ton YVAHP432B42S

Heat pump models 575V

6- to 16-ton single-module systems

6-ton YVAHP072B52S
8-ton YVAHP096B52S
10-ton YVAHP120B52S
12-ton YVAHP144B52S
14-ton YVAHP168B52S
16-ton YVAHP192B52S

18- to 30-ton double-module systems

18-ton YVAHP216B52S
20-ton YVAHP240B52S
22-ton YVAHP264B52S
24-ton YVAHP288B52S
26-ton YVAHP312B52S
28-ton YVAHP336B52S
30-ton YVAHP360B52S

32- to 36-ton triple-module systems

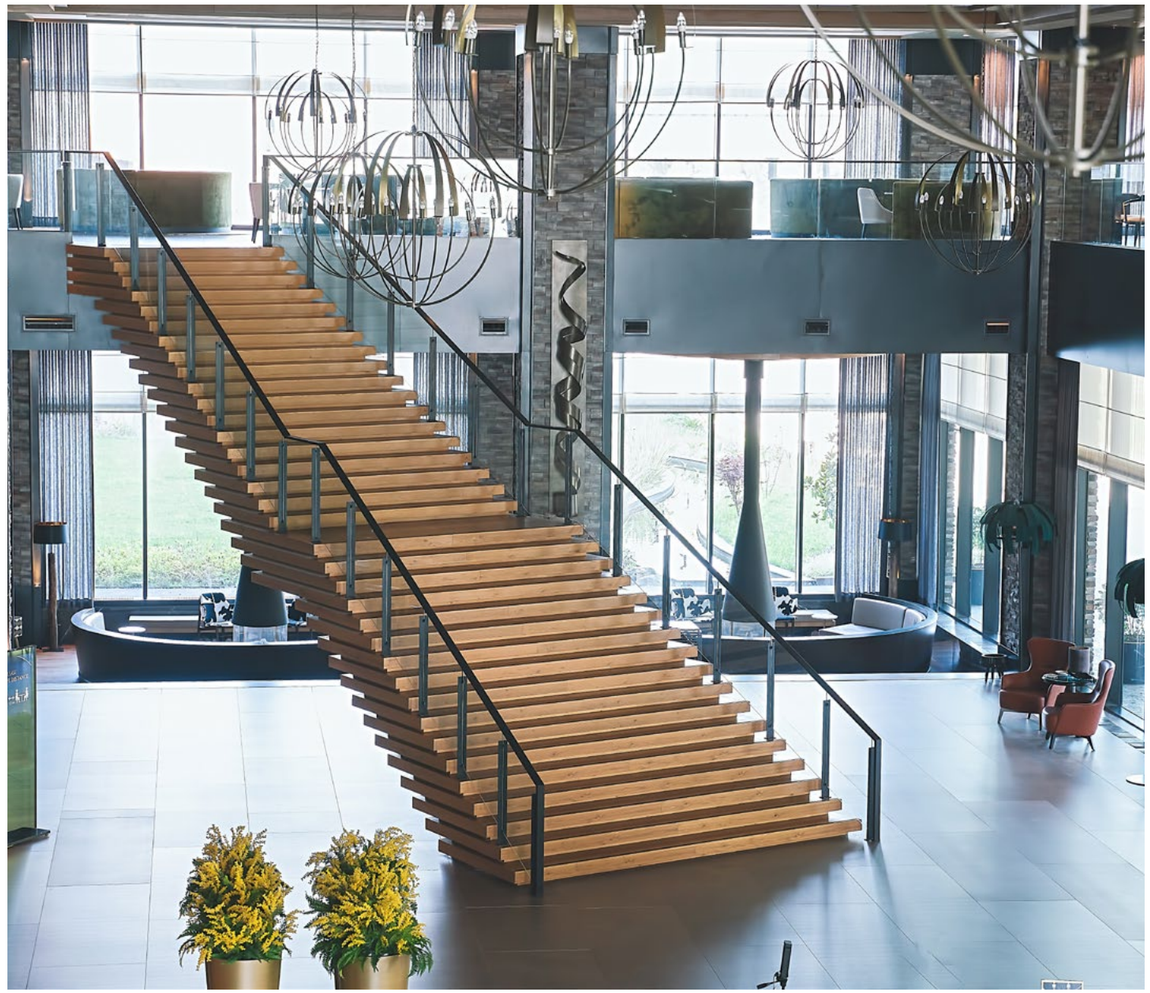
32-ton YVAHP384B52S
34-ton YVAHP408B52S
36-ton YVAHP432B52S

Overview (continued)

Mini-VRF heat pump models 208/230V

3- to 5-ton single-module systems

3-ton YVAHP036B21S
4-ton YVAHP048B21S
5-ton YVAHP060B21S



Summary tables

Heat pump and heat recovery units 208/230V and 460V		Heat recovery VRF	Heat pump VRF
Capacity		6 to 36 tons	6 to 36 tons
Maximum connectable indoor unit quantity		64	64
Connection ratio OU / IU		As low as 55% and up to 150%	
Total piping length	ft (m)	3,281 (1,000)	3,218 (1,000)
Maximum piping length between OU and IU	ft (m)	541 (165)	541 (165)
Maximum piping length between 1st branch and IU	ft (m)	295 (90)	295 (90)
Maximum height difference between OU and IU (when OU is higher than IU)	ft (m)	360 (110)	360 (110)
Maximum height difference between OU and IU (when IU is higher than OU)	ft (m)	360 (110)	360 (110)
Maximum height difference between IU and IU	ft (m)	98 (30)	98 (30)
Cooling operation range*	°F (°C)	-10 to 122 (-23 to 50)	-10 to 122 (-23 to 50)
Heating operation range*	°F (°C)	-13 to 59 (-25 to 15)	-13 to 59 (-25 to 15)

Mini-VRF 208/230V heat pump units		3-ton	4-ton	5-ton
Mini-VRF outdoor unit models		YVAHP036B21S	YVAHP048B21S	YVAHP060B21S
Performance	Rated cooling capacity (Btu/h)	36,000	48,000	60,000
	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 / 131		
	Maximum vertical distance between indoor units (ft)	49		
Dimensions	H x W x D (in)	54 5/16 x 37 3/8 x 14 9/16		

Heat recovery

208/230V | 460V | 575V Systems

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 -10°F (-23°C) in the cooling mode utilizing a low ambient kit and as low as -13°F (-25°C) in the heating mode. Simultaneous heating and cooling operating range is from -4°F to 75°F.

Heat recovery outdoor units

208/230V | 460V | 575V | 6- to 16-ton systems

6- to 16-ton systems	Type		Single-unit systems					
	Tonnage		6-ton	8-ton	10-ton	12-ton	14-ton	16-ton
Model #	208/230V, 3PH, 60Hz		YVAHR072B32S	YVAHR096B32S	YVAHR120B32S	YVAHR144B32S	YVAHR168B32S	YVAHR192B32S
	460V, 3PH, 60Hz		YVAHR072B42S	YVAHR096B42S	YVAHR120B42S	YVAHR144B42S	YVAHR168B42S	YVAHR192B42S
	575V, 3PH, 60Hz		YVAHR072B52S	YVAHR096B52S	YVAHR120B52S	YVAHR144B52S	YVAHR168B52S	YVAHR192B52S
Nominal capacity	Cooling	Btu/h	72,000	96,000	120,000	144,000	168,000	192,000
	Heating	Btu/h	81,000	108,000	135,000	162,000	189,000	216,000
Performance [2] (non-duct / duct)	Rated cooling capacity [1]	Btu/h	69,000	92,000	114,000	138,000	160,000	184,000
	EER	Btu/Wh	14.9 / 12.2	12.4 / 12.4	12.7 / 12.4	10.9 / 11.2	11.6 / 11.8	10.6 / 11.1
	IEER	Btu/Wh	26.5 / 21.1	23.9 / 22.1	24.4 / 21.7	23.9 / 21.2	23.4 / 21.4	21.4 / 20.8
	Rated heating capacity [1]	Btu/h	77,000	103,000	129,000	154,000	180,000	206,000
	COP	W/W	4.25 / 3.54	3.77 / 3.65	3.84 / 3.55	3.42 / 3.4	3.65 / 3.56	3.32 / 3.38
	SCHE	Btu/Wh	26.7 / 24.3	30.3 / 27.5	29.9 / 27.2	30.9 / 28.1	30.7 / 27.9	32.2 / 29.3
	Sound pressure	dB(A)	60	63	63	65	64	66
Operating [4] temperature range	Cooling [3]	°F DB [°C DB]	23 ~ 122 [-5 ~ 50]					
	Heating	°F WB [°C WB]	-13 ~ 59 [-25 ~ 15]					
Refrigerant	Type		R410A					
	Factory charge amount	lb. [kg]	15.9 [7.2]	19.6 [8.9]	21.8 [9.9]	23.6 [10.7]	24.9 [11.3]	25.6 [11.6]
Refrigerant piping	Liquid pipe	in. [mm]	1/2 [12.7]	1/2 [12.7]	1/2 [12.7]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
	High/low pressure gas pipe	in. [mm]	3/4 [19.05]	3/4 [19.05]	7/8 [22.2]	7/8 [22.2]	7/8 [22.2]	7/8 [22.2]
	Low pressure gas pipe	in. [mm]	7/8 [22.2]	7/8 [22.2]	1-1/8 [28.58]	1-1/8 [28.58]	1-1/8 [28.58]	1-1/8 [28.58]
Connection ratio	Connection ratio range [5]	%	70 ~ 130(150)	65 ~ 130(150)	60 ~ 130(150)	55 ~ 130(150)		
	Number of indoor units (recommended / maximum)	Qty.	8 / 15	8 / 20	8 / 26	10 / 26	12 / 36	14 / 40
Electrical	Minimum circuit amps, MCA (208V/230V/460V/575V)	A	29 / 26 / 15 / 12	39 / 35 / 22 / 16	46 / 42 / 24 / 19	58 / 52 / 30 / 24	65 / 59 / 34 / 27	76 / 68 / 39 / 32
	Maximum overcurrent protection, MOP (208V/230V/460V/575V)	A	40 / 40 / 20 / 15	50 / 50 / 30 / 25	60 / 60 / 30 / 25	70 / 70 / 35 / 30	80 / 80 / 40 / 35	90 / 90 / 50 / 40
Compressor	Compressor type		Inverter					
	Operation range	%	10 ~ 100	8 ~ 100	7 ~ 100	6 ~ 100	5 ~ 100	
Fan	Fan type		Propeller Fan x1	Propeller fan x2				
	Airflow rate	cfm [m^3/min]	6707 [190]	8437 [239]	9037 [256]		11614 [329]	12284 [348]
	External static pressure [6]	in. WG [Pa]	0 ~ 0.32 [0 ~ 80]					
Unit	Dimensions (H x W x D)	in. [mm]	66-1/4 x 38-3/8 x 30-1/2 [1683 x 975 x 774]	66-1/4 x 48-5/8 x 30-1/2 [1683 x 1235 x 774]			66-1/4 x 64 x 30-1/2 [1683 x 1625 x 774]	
	Weight (208,230V/460V/575V)	lb. [kg]	527 / 534 / 534 [239 / 242 / 242]	598 / 611 / 611 [271 / 277 / 277]	730 / 734 / 734 [331 / 333 / 333]	732 / 737 / 737 [332 / 334 / 334]	860 / 860 / 860 [390 / 390 / 390]	

NOTES:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 1230 test standard.
3. Extended cooling operating temperature range down to 14 °F DB [-10 °C DB] with snow protection hood, and down to -10 °F DB [-23 °C DB] with low ambient kit. However, upper limit temperature for cooling operation is restricted up to 109 °F DB [43 °C DB].
4. For details, refer to Engineering Manual.
5. For details, refer to Engineering Manual.
6. External static pressure can be changed by DSW setting.

Heat recovery outdoor units

208/230V | 460V | 575V | 18- to 22-ton systems

18- to 22-ton systems	Type		Double-module systems		
	Tonnage		18-ton	20-ton	22-ton
Model #	208/230V, 3PH, 60Hz		YVAHR216B32S	YVAHR240B32S	YVAHR264B32S
	460V, 3PH, 60Hz		YVAHR216B42S	YVAHR240B42S	YVAHR264B42S
	575V, 3PH, 60Hz		YVAHR216B52S	YVAHR240B52S	YVAHR264B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A	YVAHR144B32S	YVAHR120B32S	YVAHR144B32S
		Unit B	YVAHR072B32S	YVAHR120B32S	YVAHR120B32S
	460V, 3PH, 60Hz	Unit A	YVAHR144B42S	YVAHR120B42S	YVAHR144B42S
		Unit B	YVAHR072B42S	YVAHR120B42S	YVAHR120B42S
	575V, 3PH, 60Hz	Unit A	YVAHR144B52S	YVAHR120B52S	YVAHR144B52S
		Unit B	YVAHR072B52S	YVAHR120B52S	YVAHR120B52S

Nominal capacity	Cooling	Btu/h	216,000	240,000	264,000
	Heating	Btu/h	243,000	270,000	297,000
Performance [2] (non-duct / duct)	Rated cooling capacity [1]	Btu/h	206,000	228,000	252,000
	EER	Btu/Wh	10.9 / 11.2	11.1 / 10.6	10.0 / 10.5
	IEER	Btu/Wh	20.9 / 20.7	20.8 / 21.0	21.1 / 20.8
	Rated heating capacity [1]	Btu/h	232,000	258,000	282,000
	COP	W/W	3.82 / 3.51	3.67 / 3.51	3.70 / 3.56
	SCHE	Btu/Wh	29.4 / 26.7	29.0 / 26.4	30.1 / 27.4
	Sound pressure	dB(A)	66		67
Operating [4] temperature range	Cooling [3]	°F DB [°C DB]	23 ~ 122 [-5 ~ 50]		
	Heating	°F WB [°C WB]	-13 ~ 59 [-25 ~ 15]		
Refrigerant	Type		R410A		
	Factory charge amount	lb. [kg]	23.6+15.9 [10.7+7.2]	21.8+21.8 [9.9+9.9]	23.6+21.8 [10.7+9.9]
Refrigerant piping	Liquid pipe	in. [mm]	3/4 [19.05]	3/4 [19.05]	3/4 [19.05]
	High/low pressure gas pipe	in. [mm]	7/8 [22.2]	1-1/8 [28.58]	1-1/8 [28.58]
	Low pressure gas pipe	in. [mm]	1-1/8 [28.58]	1-3/8 [34.93]	1-3/8 [34.93]
Connection ratio	Connection ratio range [5]	%	60 ~ 130 (150)		55 ~ 130 (150)
	Number of indoor units (recommended / maximum)	Qty.	18 / 46	18 / 52	20 / 56
Electrical	Minimum circuit amps, MCA (Unit A + Unit B) (208V/230V/460V/575V)	A	58+29 / 52+26 / 30+15 / 24+12	46+46 / 42+42 / 24+24 / 19+19	58+46 / 52+42 / 30+24 / 24+19
	Maximum overcurrent protection, MOP (Unit A + Unit B) (208V/230V/460V/575V)	A	70+40 / 70+40 / 35+20 / 30+15	60+60 / 60+60 / 30+30 / 25+25	70+60 / 70+60 / 35+30 / 30+25
Compressor	Compressor type		Inverter		
	Operation range	%	4 ~ 100		3 ~ 100
Fan	Fan type		Propeller fan x3	Propeller fan x4	
	Airflow rate	cfm [m^3/min]	9037+6707 [256+190]	9037+9037 [256+256]	
	External static pressure [6]	in. WG [Pa]	0 ~ 0.32 [0 ~ 80]		
Unit	Dimensions (H x W x D)	in. [mm]	66-1/4 x 87-13/16 x 30-1/2 [1683 x 2230 x 774]	66-1/4 x 98-1/16 x 30-1/2 [1683 x 2490 x 774]	
	Weight (Unit A + Unit B) (208,230V/460V/575V)	lb. [kg]	732+527 / 737+534 / 737+534 [332+239 / 334+242 / 334+242]	730+730 / 734+734 / 734+734 [331+331 / 333+333 / 333+333]	732+730 / 737+734 / 737+734 [332+331 / 334+333 / 334+333]

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 1230 test standard.
3. Extended cooling operating temperature range down to 14 °F DB [-10 °C DB] with snow protection hood, and down to -10 °F DB [-23 °C DB] with low ambient kit. However, upper limit temperature for cooling operation is restricted up to 109 °F DB [43 °C DB].
4. For details, refer to Engineering Manual.
5. For details, refer to Engineering Manual.
6. External static pressure can be changed by DSW setting.

Variable refrigerant flow systems | Air-source outdoor units

Heat recovery outdoor units

208/230V | 460V | 575V | 24- to 26-ton systems

24- to 26-ton systems	Type		Double-module systems	
	Tonnage		24-ton	26-ton
Model #	208/230V, 3PH, 60Hz		YVAHR288B32S	YVAHR312B32S
	460V, 3PH, 60Hz		YVAHR288B42S	YVAHR312B42S
	575V, 3PH, 60Hz		YVAHR288B52S	YVAHR312B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A	YVAHR144B32S	YVAHR168B32S
		Unit B	YVAHR144B32S	YVAHR144B32S
	460V, 3PH, 60Hz	Unit A	YVAHR144B42S	YVAHR168B42S
		Unit B	YVAHR144B42S	YVAHR144B42S
	575V, 3PH, 60Hz	Unit A	YVAHR144B52S	YVAHR168B52S
		Unit B	YVAHR144B52S	YVAHR144B52S

Nominal capacity	Cooling	Btu/h	288,000	312,000
	Heating	Btu/h	324,000	351,000
Performance [2] (non-duct / duct)	Rated cooling capacity [1]	Btu/h	276,000	298,000
	EER	Btu/Wh	9.5 / 9.9	9.7 / 10.0
	IEER	Btu/Wh	19.4 / 20.7	20.3 / 19.5
	Rated heating capacity [1]	Btu/h	308,000	334,000
	COP	W/W	3.42 / 3.42	3.37 / 3.31
	SCHE	Btu/Wh	30.7 / 27.9	27.2 / 24.7
	Sound pressure	dB(A)	68	
Operating [4] temperature range	Cooling [3]	°F DB [°C DB]	23 ~ 122 [-5 ~ 50]	
	Heating	°F WB [°C WB]	-13 ~ 59 [-25 ~ 15]	
Refrigerant	Type		R410A	
	Factory charge amount	lb. [kg]	23.6+23.6 [10.7+10.7]	24.9+23.6 [11.3+10.7]
Refrigerant piping	Liquid pipe	in. [mm]	3/4 [19.05]	3/4 [19.05]
	High/low pressure gas pipe	in. [mm]	1-1/8 [28.58]	1-1/8 [28.58]
	Low pressure gas pipe	in. [mm]	1-3/8 [34.93]	1-3/8 [34.93]
Connection ratio	Connection ratio range [5]	%	55 ~ 130(150)	
	Number of indoor units (recommended / maximum)	Qty.	20 / 59	22 / 64
Electrical	Minimum circuit amps, MCA (Unit A + Unit B) (208V/230V/460V/575V)	A	58+58 / 52+52 / 30+30 / 24+24	65+58 / 59+52 / 34+30 / 27+24
	Maximum overcurrent protection, MOP (Unit A + Unit B) (208V/230V/460V/575V)	A	70+70 / 70+70 / 35+35 / 30+30	80+70 / 80+70 / 40+35 / 35+30
Compressor	Compressor type		Inverter	
	Operation range	%	3 ~ 100	
Fan	Fan type		Propeller fan x4	
	Airflow rate	cfm [m^3/min]	9037+9037 [256+256]	11614+9037 [329+256]
	External static pressure [6]	in. WG [Pa]	0 ~ 0.32 [0 ~ 80]	
Unit	Dimensions (H x W x D)	in. [mm]	66-1/4 x 98-1/16 x 30-1/2 [1683 x 2490 x 774]	66-1/4 x 113-3/8 x 30-1/2 [1683 x 2880 x 774]
	Weight (Unit A + Unit B) (208,230V/460V/575V)	lb. [kg]	732+732 / 737+737 / 737+737 [332+332 / 334+334 / 334+334]	860+732 / 860+737 / 860+737 [390+332 / 390+334 / 390+334]

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 1230 test standard.
3. Extended cooling operating temperature range down to 14 °F DB [-10 °C DB] with snow protection hood, and down to -10 °F DB [-23 °C DB] with low ambient kit. However, upper limit temperature for cooling operation is restricted up to 109 °F DB [43 °C DB].
4. For details, refer to Engineering Manual.
5. For details, refer to Engineering Manual.
6. External static pressure can be changed by DSW setting.

Heat recovery outdoor units

208/230V | 460V | 575V | 28- to 30-ton systems

28- to 30-ton systems	Type		Double-module systems	
	Tonnage		28-ton	30-ton
Model #	208/230V, 3PH, 60Hz		YVAHR336B32S	YVAHR360B32S
	460V, 3PH, 60Hz		YVAHR336B42S	YVAHR360B42S
	575V, 3PH, 60Hz		YVAHR336B52S	YVAHR360B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A	YVAHR192B32S	YVAHR192B32S
		Unit B	YVAHR144B32S	YVAHR168B32S
	460V, 3PH, 60Hz	Unit A	YVAHR192B42S	YVAHR192B42S
		Unit B	YVAHR144B42S	YVAHR168B42S
	575V, 3PH, 60Hz	Unit A	YVAHR192B52S	YVAHR192B52S
		Unit B	YVAHR144B52S	YVAHR168B52S

Nominal capacity	Cooling	Btu/h	336,000	360,000
	Heating	Btu/h	378,000	405,000
Performance [2] (non-duct / duct)	Rated cooling capacity [1]	Btu/h	320,000	344,000
	EER	Btu/Wh	9.5 / 9.8	9.5 / 10.2
	IEER	Btu/Wh	20.8 / 19.1	19.8 / 19.5
	Rated heating capacity [1]	Btu/h	360,000	382,000
	COP	W/W	3.27 / 3.32	3.27 / 3.20
	SCHE	Btu/Wh	27.8 / 25.3	26.6 / 24.2
	Sound pressure	dB(A)	69	68
Operating [4] temperature range	Cooling [3]	°F DB [°C DB]	23 ~ 122 [-5 ~ 50]	
	Heating	°F WB [°C WB]	-13 ~ 59 [-25 ~ 15]	
Refrigerant	Type		R410A	
	Factory charge amount	lb. [kg]	25.6+23.6 [11.6+10.7]	25.6+24.9 [11.6+11.3]
Refrigerant piping	Liquid pipe	in. [mm]	3/4 [19.05]	3/4 [19.05]
	High/low pressure gas pipe	in. [mm]	1-1/8 [28.58]	1-1/8 [28.58]
	Low pressure gas pipe	in. [mm]	1-3/8 [34.93]	1-3/8 [34.93]
Connection ratio	Connection ratio range [5]	%	55 ~ 130(150)	
	Number of indoor units (recommended / maximum)	Qty.	24/64	28/64
Electrical	Minimum circuit amps, MCA (Unit A + Unit B) (208V/230V/460V/575V)	A	76+58 / 68+52 / 39+30 / 32+24	76+65 / 68+59 / 39+34 / 32+27
	Maximum overcurrent protection, MOP (Unit A + Unit B) (208V/230V/460V/575V)	A	90+70 / 90+70 / 50+35 / 40+30	90+80 / 90+80 / 50+40 / 40+35
Compressor	Compressor type		Inverter	
	Operation range	%	3 ~ 100	
Fan	Fan type		Propeller fan x4	
	Airflow rate	cfm [m^3/min]	12284+9037 [348+256]	12284+11614 [348+329]
	External static pressure [6]	in. WG [Pa]	0 ~ 0.32 [0 ~ 80]	
Unit	Dimensions (H x W x D)	in. [mm]	66-1/4 x 113-3/8 x 30-1/2 [1683 x 2880 x 774]	66-1/4 x 128-3/4 x 30-1/2 [1683 x 3270 x 774]
	Weight (Unit A + Unit B) (208,230V/460V/575V)	lb. [kg]	860+732 / 860+737 / 860+737 [390+332 / 390+334 / 390+334]	860+860 / 860+860 / 860+860 [390+390 / 390+390 / 390+390]

NOTES:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 1230 test standard.
3. Extended cooling operating temperature range down to 14 °F DB [-10 °C DB] with snow protection hood, and down to -10 °F DB [-23 °C DB] with low ambient kit. However, upper limit temperature for cooling operation is restricted up to 109 °F DB [43 °C DB].
4. For details, refer to Engineering Manual.
5. For details, refer to Engineering Manual.
6. External static pressure can be changed by DSW setting.

Variable refrigerant flow systems | Air-source outdoor units

Heat recovery outdoor units

208/230V | 460V | 575V | 32- to 36-ton systems

32- to 36-ton systems	Type		Triple-module systems		
	Tonnage		32-ton	34-ton	36-ton
Model #	208/230V, 3PH, 60Hz		YVAHR384B32S	YVAHR408B32S	YVAHR432B32S
	460V, 3PH, 60Hz		YVAHR384B42S	YVAHR408B42S	YVAHR432B42S
	575V, 3PH, 60Hz		YVAHR384B52S	YVAHR408B52S	YVAHR432B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A	YVAHR144B32S	YVAHR144B32S	YVAHR144B32S
		Unit B	YVAHR120B32S	YVAHR144B32S	YVAHR144B32S
		Unit C	YVAHR120B32S	YVAHR120B32S	YVAHR144B32S
	460V, 3PH, 60Hz	Unit A	YVAHR144B42S	YVAHR144B42S	YVAHR144B42S
		Unit B	YVAHR120B42S	YVAHR144B42S	YVAHR144B42S
		Unit C	YVAHR120B42S	YVAHR120B42S	YVAHR144B42S
	575V, 3PH, 60Hz	Unit A	YVAHR144B52S	YVAHR144B52S	YVAHR144B52S
		Unit B	YVAHR120B52S	YVAHR144B52S	YVAHR144B52S
		Unit C	YVAHR120B52S	YVAHR120B52S	YVAHR144B52S

Nominal capacity	Cooling	Btu/h	384,000	408,000	432,000
	Heating	Btu/h	432,000	459,000	486,000
Performance [2] (non-duct / duct)	Rated cooling capacity [1]	Btu/h	366,000	380,000	400,000
	EER	Btu/Wh	9.6 / 9.5	9.5 / 9.5	9.5 / 9.6
	IEER	Btu/Wh	19.6 / 18.6	19.3 / 19.2	19.5 / 19.0
	Rated heating capacity [1]	Btu/h	410,000	435,000	460,000
	COP	W/W	3.37 / 3.33	3.34 / 3.37	3.21 / 3.35
	SCHE	Btu/Wh	28.6 / 26.0	28.9 / 26.3	30.1 / 27.4
	Sound pressure	dB(A)	69		70
Operating [4] temperature range	Cooling [3]	°F DB [°C DB]	23 ~ 122 [-5 ~ 50]		
	Heating	°F WB [°C WB]	-13 ~ 59 [-25 ~ 15]		
Refrigerant	Type		R410A		
	Factory charge amount	lb. [kg]	23.6+21.8+21.8 [10.7+9.9+9.9]	23.6+23.6+21.8 [10.7+10.7+9.9]	23.6+23.6+23.6 [10.7+10.7+10.7]
Refrigerant piping	Liquid pipe	in. [mm]	3/4 [19.05]	3/4 [19.05]	3/4 [19.05]
	High/low pressure gas pipe	in. [mm]	1-1/8 [28.58]	1-1/8 [28.58]	1-1/8 [28.58]
	Low pressure gas pipe	in. [mm]	1-5/8 [41.28]	1-5/8 [41.28]	1-5/8 [41.28]
Connection ratio	Connection ratio range [5]	%	55 ~ 130(150)		
	Number of indoor units (recommended / maximum)	Qty.	30 / 64		
Electrical	Minimum circuit amps, MCA (Unit A + Unit B + Unit C) (208V/230V/460V/575V)	A	58+46+46 / 52+42+42 / 30+24+24 / 24+19+19	58+58+46 / 52+52+42 / 30+30+24 / 24+24+19	58+58+58 / 52+52+52 / 30+30+30 / 24+24+24
	Maximum overcurrent protection, MOP (Unit A + Unit B + Unit C) (208V/230V/460V/575V)	A	70+60+60 / 70+60+60 / 35+30+30 / 30+25+25	70+70+60 / 70+70+60 / 35+35+30 / 30+30+25	70+70+70 / 70+70+70 / 35+35+35 / 30+30+30
Compressor	Compressor type		Inverter		
	Operation range	%	2 ~ 100		
Fan	Fan type		Propeller fan x6		
	Airflow rate	cfm [m^3/min]	9037+9037+9037 [256+256+256]		
	External static pressure [6]	in. WG [Pa]	0 ~ 0.32 [0 ~ 80]		
Unit	Dimensions (H x W x D)	in. [mm]	66-1/4 x 147-7/16 x 30-1/2 [1683 x 3745 x 774]		
	Weight (Unit A + Unit B + Unit C) (208,230V/460V/575V)	lb. [kg]	732+730+730 / 737+734+734 / 737+734+734 [332+331+331 / 334+333+333 / 334+333+333]	732+732+730 / 737+737+734 / 737+737+734 [332+332+331 / 334+334+333 / 334+334+333]	732+732+732 / 737+737+737 / 737+737+737 [332+332+332 / 334+334+334 / 334+334+334]

NOTES:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 1230 test standard.
3. Extended cooling operating temperature range down to 14 °F DB [-10 °C DB] with snow protection hood, and down to -10 °F DB [-23 °C DB] with low ambient kit. However, upper limit temperature for cooling operation is restricted up to 109 °F DB [43 °C DB].
4. For details, refer to Engineering Manual.
5. For details, refer to Engineering Manual.
6. External static pressure can be changed by DSW setting.

Change-over boxes

Multi-port change-over boxes provide multiple benefits, including:

- Unprecedented design freedom
- Reduced costs, including material and labor, with more efficient designs
- Elimination of concerns around condensate
- Easy accommodation of future expansion

Single-port change-over box

4-port change-over box

8-port change-over box

12-port change-over box

Change-over box type			Single-port		Multiple-port		
Model #			COBS048B22S/C	COBS096B22S/C	COB04M132B22S	COB08M264B22S	COB12M264B22S
Power supply			1 Phase, 208/230V, 60Hz				
Number of ports			1	1	4	8	12
Single indoor unit per port	Maximum total capacity of all connected indoor units	MBH	≤48	≤96	≤132	≤264	≤264
	Maximum total capacity of connected indoor units per port	MBH	≤48	≤96	≤96	≤96	≤96
Multiple indoor units per port	Maximum number of connected indoor units per port	-	7	8	6	6	6
	Maximum total capacity of all connected indoor units	MBH	≤41	≤71	≤114	≤216	≤216
	Maximum total capacity of connected indoor units per port	MBH	≤41	≤71	≤41	≤41	≤41
Dimensions	Height	in. (mm)	7-1/2 (191)	7-1/2 (191)	10-1/4 (260)	10-1/4 (260)	10-1/4 (260)
	Width	in. (mm)	11-7/8 (301)	11-7/8 (301)	11-15/16 (303)	21-3/8 (543)	30-13/16 (783)
	Depth	in. (mm)	8-7/16 (214)	8-7/16 (214)	13-7/8 (352)	13-7/8 (352)	13-7/8 (352)
Net weight		lbs. (kg)	13 (6)	13 (6)	31 (14)	56 (25)	80 (36)
Refrigerant		-	R410A				
Power consumption		W	5	5	11.2	22.4	33.6
Minimum circuit ampacity		A	0.1	0.1	0.2	0.4	0.6
Recommended fuse/breaker size		A	15	15	15	15	15
Refrigerant piping (Outdoor unit)	Gas line (high/low pressure)	in. (mm)	5/8 (15.88)	5/8 (15.88)	7/8 (22.2)	7/8 (22.2)	1 (25.4)
	Gas line (Low pressure)	in. (mm)	3/4 (19.05)	3/4 (19.05)	1 (25.4)	1-1/8 (28.58)	1-1/8 (28.58)
	Liquid line	in. (mm)	-	-	1/2 (12.7)	1/2 (12.7)	5/8 (15.88)
Refrigerant piping (Indoor unit)	Gas line	in. (mm)	5/8 (15.88)	3/4 (19.05)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
	Liquid line	in. (mm)	-	-	3/8 (9.53)	3/8 (9.53)	3/8 (9.53)

Heat pump

208/230V | 460V | 575V Systems

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 -10°F in cooling mode utilizing a low ambient kit and as low as -13°F (-25°C) in the heating mode.

Heat pump outdoor units

208/230V | 460V | 575V | 6- to 16-ton systems

6- to 16-ton systems	Type	Single-unit systems					
	Tonnage	6-ton	8-ton	10-ton	12-ton	14-ton	16-ton
Model #	208/230V, 3PH, 60Hz	YVAHP072B32S	YVAHP096B32S	YVAHP120B32S	YVAHP144B32S	YVAHP168B32S	YVAHP192B32S
	460V, 3PH, 60Hz	YVAHP072B42S	YVAHP096B42S	YVAHP120B42S	YVAHP144B42S	YVAHP168B42S	YVAHP192B42S
	575V, 3PH, 60Hz	YVAHP072B52S	YVAHP096B52S	YVAHP120B52S	YVAHP144B52S	YVAHP168B52S	YVAHP192B52S

Nominal capacity	Cooling	Btu/h	72,000	96,000	120,000	144,000	168,000	192,000
	Heating	Btu/h	81,000	108,000	135,000	162,000	189,000	216,000
Performance [2] (non-duct / duct)	Rated cooling capacity [1]	Btu/h	69,000	92,000	114,000	138,000	160,000	184,000
	EER	Btu/Wh	14.9 / 12.2	12.4 / 12.4	12.7 / 12.4	10.9 / 11.2	11.6 / 11.8	10.6 / 11.1
	IEER	Btu/Wh	26.5 / 21.1	23.9 / 22.1	24.4 / 21.7	23.9 / 21.2	23.4 / 21.4	21.4 / 20.8
	Rated heating capacity [1]	Btu/h	77,000	103,000	129,000	154,000	180,000	206,000
	COP	W/W	4.25 / 3.54	3.77 / 3.65	3.84 / 3.55	3.42 / 3.4	3.65 / 3.56	3.32 / 3.38
	Sound Pressure	dB(A)	60	63	63	65	64	66
Operating [4] temperature range	Cooling [3]	°F DB [°C DB]	23 ~ 122 [-5 ~ 50]					
	Heating	°F WB [°C WB]	-13 ~ 59 [-25 ~ 15]					
Refrigerant	Type		R410A					
	Factory charge amount	lb. [kg]	15.9 [7.2]	19.6 [8.9]	21.8 [9.9]	23.6 [10.7]	24.9 [11.3]	25.6 [11.6]
Refrigerant piping	Liquid pipe	in. [mm]	1/2 [12.7]	1/2 [12.7]	1/2 [12.7]	5/8 [15.88]	5/8 [15.88]	5/8 [15.88]
	Gas pipe	in. [mm]	7/8 [22.2]	7/8 [22.2]	1-1/8 [28.58]	1-1/8 [28.58]	1-1/8 [28.58]	1-1/8 [28.58]
Connection ratio	Connection ratio range [5]	%	70 - 130 (150)	65 - 130(150)	60 - 130(150)	55 - 130(150)		
	Number of indoor units (recommended / maximum)	Qty.	8 / 15	8 / 20	8 / 26	10 / 26	12 / 36	14 / 40
Electrical	Minimum circuit amps, MCA (208V/230V/460V/575V)	A	29 / 26 / 15 / 12	39 / 35 / 22 / 16	46 / 42 / 24 / 19	58 / 52 / 30 / 24	65 / 59 / 34 / 27	76 / 68 / 39 / 32
	Maximum overcurrent protection, MOP (208V/230V/460V/575V)	A	40 / 40 / 20 / 15	50 / 50 / 30 / 25	60 / 60 / 30 / 25	70 / 70 / 35 / 30	80 / 80 / 40 / 35	90 / 90 / 50 / 40
Compressor	Compressor type		Inverter					
	Operation range	%	10 ~ 100	8 ~ 100	7 ~ 100	6 ~ 100	5 ~ 100	
Fan	Fan type		Propeller fan x1	Propeller fan x2				
	Airflow rate	cfm [m^3/min]	6707 [190]	8437 [239]	9037 [256]		11614 [329]	12284 [348]
	External static pressure [6]	in. WG [Pa]	0 ~ 0.32 [0 ~ 80]					
Unit	Dimensions (H x W x D)	in. [mm]	66-1/4 x 38-3/8 x 30-1/2 [1683 x 975 x 774]	66-1/4 x 48-5/8 x 30-1/2 [1683 x 1235 x 774]			66-1/4 x 64 x 30-1/2 [1683 x 1625 x 774]	
	Weight (208,230V/460V/575V)	lb. [kg]	516 / 523 / 523 [234 / 237 / 237]	591 / 604 / 604 [268 / 274 / 274]	721 / 725 / 725 [327 / 329 / 329]	723 / 728 / 728 [328 / 330 / 330]	849 / 849 / 849 [385 / 385 / 385]	

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 1230 test standard.
3. Extended cooling operating temperature range down to 14 °F DB [-10 °C DB] with snow protection hood, and down to -10 °F DB [-23 °C DB] with low ambient kit. However, upper limit temperature for cooling operation is restricted up to 109 °F DB [43 °C DB].
4. For details, refer to Engineering Manual.
5. For details, refer to Engineering Manual.
6. External static pressure can be changed by DSW setting.

Variable refrigerant flow systems | Air-source outdoor units

Heat pump outdoor units

208/230V | 460V | 575V | 18- to 22-ton systems

18- to 22-ton systems	Type		Double-module systems		
	Tonnage		18-ton	20-ton	22-ton
Model #	208/230V, 3PH, 60Hz		YVAHP216B32S	YVAHP240B32S	YVAHP264B32S
	460V, 3PH, 60Hz		YVAHP216B42S	YVAHP240B42S	YVAHP264B42S
	575V, 3PH, 60Hz		YVAHP216B52S	YVAHP240B52S	YVAHP264B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A	YVAHP144B32S	YVAHP120B32S	YVAHP144B32S
		Unit B	YVAHP072B32S	YVAHP120B32S	YVAHP120B32S
	460V, 3PH, 60Hz	Unit A	YVAHP144B42S	YVAHP120B42S	YVAHP144B42S
		Unit B	YVAHP072B42S	YVAHP120B42S	YVAHP120B42S
	575V, 3PH, 60Hz	Unit A	YVAHP144B52S	YVAHP120B52S	YVAHP144B52S
		Unit B	YVAHP072B52S	YVAHP120B52S	YVAHP120B52S

Nominal capacity	Cooling	Btu/h	216,000	240,000	264,000
	Heating	Btu/h	243,000	270,000	297,000
Performance [2] (non-duct / duct)	Rated cooling capacity[1]	Btu/h	206,000	228,000	252,000
	EER	Btu/Wh	10.9 / 11.2	11.1 / 10.6	10.0 / 10.5
	IEER	Btu/Wh	20.9 / 20.7	20.8 / 21.0	21.1 / 20.8
	Rated heating capacity [1]	Btu/h	232,000	258,000	282,000
	COP	W/W	3.82 / 3.51	3.67 / 3.51	3.70 / 3.56
	Sound pressure	dB(A)	66		67
Operating [4] temperature range	Cooling [3]	°F DB [°C DB]	23 ~ 122 [-5 ~ 50]		
	Heating	°F WB [°C WB]	-13 ~ 59 [-25 ~ 15]		
Refrigerant	Type		R410A		
	Factory charge amount	lb. [kg]	23.6+15.9 [10.7+7.2]	21.8+21.8 [9.9+9.9]	23.6+21.8 [10.7+9.9]
Refrigerant piping	Liquid pipe	in. [mm]	3/4 [19.05]	3/4 [19.05]	3/4 [19.05]
	Gas pipe	in. [mm]	1-1/8 [28.58]	1-3/8 [34.93]	1-3/8 [34.93]
Connection ratio	Connection ratio range [5]	%	60 - 130(150)		55 - 130(150)
	Number of indoor units (recommended / maximum)	Qty.	18 / 46	18 / 52	20 / 56
Electrical	Minimum circuit amps, MCA (Unit A + Unit B) (208V/230V/460V/575V)	A	58+29 / 52+26 / 30+15 / 24+12	46+46 / 42+42 / 24+24 / 19+19	58+46 / 52+42 / 30+24 / 24+19
	Maximum overcurrent protection, MOP (Unit A + Unit B) (208V/230V/460V/575V)	A	70+40 / 70+40 / 35+20 / 30+15	60+60 / 60+60 / 30+30 / 25+25	70+60 / 70+60 / 35+30 / 30+25
Compressor	Compressor type		Inverter		
	Operation range	%	4 ~ 100		3 ~ 100
Fan	Fan type		Propeller fan x3	Propeller fan x4	
	Airflow rate	cfm [m^3/min]	9037+6707 [256+190]	9037+9037 [256+256]	
	External static pressure [6]	in. WG [Pa]	0 ~ 0.32 [0 ~ 80]		
Unit	Dimensions (H x W x D)	in. [mm]	66-1/4 x 87-13/16 x 30-1/2 [1683 x 2230 x 774]	66-1/4 x 98-1/16 x 30-1/2 [1683 x 2490 x 774]	
	Weight (Unit A + Unit B) (208,230V/460V/575V)	lb. [kg]	723+516 / 728+523 / 728+523 [328+234 / 330+237 / 330+237]	721+721 / 725+725 / 725+725 [327+327 / 329+329 / 329+329]	723+721 / 728+725 / 728+725 [328+327 / 330+329 / 330+329]

NOTES:
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 1230 test standard.
3. Extended cooling operating temperature range down to 14 °F DB [-10 °C DB] with snow protection hood, and down to -10 °F DB [-23 °C DB] with low ambient kit. However, upper limit temperature for cooling operation is restricted up to 109 °F DB [43 °C DB].
4. For details, refer to Engineering Manual.
5. For details, refer to Engineering Manual.
6. External static pressure can be changed by DSW setting.

Heat pump outdoor units

208/230V | 460V | 575V | 24- to 26-ton systems

24- to 26-ton systems	Type		Double-module systems	
	Tonnage		24-ton	26-ton
Model #	208/230V, 3PH, 60Hz		YVAHP288B32S	YVAHP312B32S
	460V, 3PH, 60Hz		YVAHP288B42S	YVAHP312B42S
	575V, 3PH, 60Hz		YVAHP288B52S	YVAHP312B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A	YVAHP144B32S	YVAHP168B32S
		Unit B	YVAHP144B32S	YVAHP144B32S
	460V, 3PH, 60Hz	Unit A	YVAHP144B42S	YVAHP168B42S
		Unit B	YVAHP144B42S	YVAHP144B42S
	575V, 3PH, 60Hz	Unit A	YVAHP144B52S	YVAHP168B52S
		Unit B	YVAHP144B52S	YVAHP144B52S

Nominal capacity	Cooling	Btu/h	288,000	312,000
	Heating	Btu/h	324,000	351,000
Performance [2] (non-duct / duct)	Rated cooling capacity [1]	Btu/h	276,000	298,000
	EER	Btu/Wh	9.5 / 9.9	9.7 / 10.0
	IEER	Btu/Wh	19.4 / 20.7	20.3 / 19.5
	Rated heating capacity [1]	Btu/h	308,000	334,000
	COP	W/W	3.42 / 3.42	3.37 / 3.31
	Sound pressure	dB(A)	68	
Operating [4] temperature range	Cooling [3]	oF DB [°C DB]	23 ~ 122 [-5 ~ 50]	
	Heating	oF WB [°C WB]	-13 ~ 59 [-25 ~ 15]	
Refrigerant	Type		R410A	
	Factory charge amount	lb. [kg]	23.6+23.6 [10.7+10.7]	24.9+23.6 [11.3+10.7]
Refrigerant piping	Liquid pipe	in. [mm]	3/4 [19.05]	3/4 [19.05]
	Gas pipe	in. [mm]	1-3/8 [34.93]	1-3/8 [34.93]
Connection ratio	Connection ratio range [5]	%	55 ~ 130(150)	
	Number of indoor units (recommended / maximum)	Qty.	20 / 59	22 / 64
Electrical	Minimum circuit amps, MCA (Unit A + Unit B) (208V/230V/460V/575V)"	A	58+58 / 52+52 / 30+30 / 24+24	65+58 / 59+52 / 34+30 / 27+24
	Maximum overcurrent protection, MOP (Unit A + Unit B) (208V/230V/460V/575V)	A	70+70 / 70+70 / 35+35 / 30+30	80+70 / 80+70 / 40+35 / 35+30
Compressor	Compressor type		Inverter	
	Operation range	%	3 ~ 100	
Fan	Fan type		Propeller fan x4	
	Airflow rate	cfm [m^3/min]	9037+9037 [256+256]	11614+9037 [329+256]
	External static pressure [6]	in. WG [Pa]	0 ~ 0.32 [0 ~ 80]	
Unit	Dimensions (H x W x D)	in. [mm]	66-1/4 x 98-1/16 x 30-1/2 [1683 x 2490 x 774]	66-1/4 x 113-3/8 x 30-1/2 [1683 x 2880 x 774]
	Weight (Unit A + Unit B) (208,230V/460V/575V)	lb. [kg]	723+723 / 728+728 / 728+728 [328+328 / 330+330 / 330+330]	849+723 / 849+728 / 849+728 [385+328 / 385+330 / 385+330]

NOTES:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 1230 test standard.
3. Extended cooling operating temperature range down to 14 °F DB [-10 °C DB] with snow protection hood, and down to -10 °F DB [-23 °C DB] with low ambient kit. However, upper limit temperature for cooling operation is restricted up to 109 °F DB [43 °C DB].
4. For details, refer to Engineering Manual.
5. For details, refer to Engineering Manual.
6. External static pressure can be changed by DSW setting.

Variable refrigerant flow systems | Air-source outdoor units

Heat pump outdoor units

208/230V | 460V | 575V | 28- to 30-ton systems

28- to 30-ton systems	Type		Double-module systems	
	Tonnage		28-ton	30-ton
Model #	208/230V, 3PH, 60Hz		YVAHP336B32S	YVAHP360B32S
	460V, 3PH, 60Hz		YVAHP336B42S	YVAHP360B42S
	575V, 3PH, 60Hz		YVAHP336B52S	YVAHP360B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A	YVAHP192B32S	YVAHP192B32S
		Unit B	YVAHP144B32S	YVAHP168B32S
	460V, 3PH, 60Hz	Unit A	YVAHP192B42S	YVAHP192B42S
		Unit B	YVAHP144B42S	YVAHP168B42S
	575V, 3PH, 60Hz	Unit A	YVAHP192B52S	YVAHP192B52S
		Unit B	YVAHP144B52S	YVAHP168B52S

Nominal capacity	Cooling	Btu/h	336,000	360,000
	Heating	Btu/h	378,000	405,000
Performance [2] (non-duct / duct)	Rated cooling capacity [1]	Btu/h	320,000	344,000
	EER	Btu/Wh	9.5 / 9.8	9.5 / 10.2
	IEER	Btu/Wh	20.8 / 19.1	19.8 / 19.5
	Rated heating capacity [1]	Btu/h	360,000	382,000
	COP	W/W	3.27 / 3.32	3.27 / 3.20
	Sound pressure	dB(A)s	69	68
Operating [4] temperature range	Cooling [3]	°F DB [°C DB]	23 ~ 122 [-5 ~ 50]	
	Heating	°F WB [°C WB]	-13 ~ 59 [-25 ~ 15]	
Refrigerant	Type		R410A	
	Factory charge amount	lb. [kg]	25.6+23.6 [11.6+10.7]	25.6+24.9 [11.6+11.3]
Refrigerant piping	Liquid pipe	in. [mm]	3/4 [19.05]	3/4 [19.05]
	Gas pipe	in. [mm]	1-3/8 [34.93]	1-3/8 [34.93]
Connection ratio	Connection ratio range [5]	%	55 ~ 130(150)	
	Number of indoor units (recommended / maximum)	Qty.	24 / 64	28 / 64
Electrical	Minimum circuit amps, MCA (Unit A + Unit B) (208V/230V/460V/575V)	A	76+58 / 68+52 / 39+30 / 32+24	76+65 / 68+59 / 39+34 / 32+27
	Maximum overcurrent protection, MOP (Unit A + Unit B) (208V/230V/460V/575V)	A	90+70 / 90+70 / 50+35 / 40+30	90+80 / 90+80 / 50+40 / 40+35
Compressor	Compressor type		Inverter	
	Operation range	%	3 ~ 100	
Fan	Fan type		Propeller fan x4	
	Airflow rate	cfm [m^3/min]	12284+9037 [348+256]	12284+11614 [348+329]
	External static pressure [6]	in. WG [Pa]	0 ~ 0.32 [0 ~ 80]	
Unit	Dimensions (H x W x D)	in. [mm]	66-1/4 x 113-3/8 x 30-1/2 [1683 x 2880 x 774]	66-1/4 x 128-3/4 x 30-1/2 [1683 x 3270 x 774]
	Weight (Unit A + Unit B) (208,230V/460V/575V)	lb. [kg]	849+723 / 849+728 / 849+728 [385+328 / 385+330 / 385+330]	849+849 / 849+849 / 849+849 [385+385 / 385+385 / 385+385]

NOTES:

1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 1230 test standard.
3. Extended cooling operating temperature range down to 14 °F DB [-10 °C DB] with snow protection hood, and down to -10 °F DB [-23 °C DB] with low ambient kit. However, upper limit temperature for cooling operation is restricted up to 109 °F DB [43 °C DB].
4. For details, refer to Engineering Manual.
5. For details, refer to Engineering Manual.
6. External static pressure can be changed by DSW setting.

Heat pump outdoor units

208/230V | 460V | 575V | 32- to 36-ton systems

32- to 36-ton systems	Type		Triple-module systems		
	Tonnage		32-ton	34-ton	36-ton
Model #	208/230V, 3PH, 60Hz		YVAHP384B32S	YVAHP408B32S	YVAHP432B32S
	460V, 3PH, 60Hz		YVAHP384B42S	YVAHP408B42S	YVAHP432B42S
	575V, 3PH, 60Hz		YVAHP384B52S	YVAHP408B52S	YVAHP432B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A	YVAHP144B32S	YVAHP144B32S	YVAHP144B32S
		Unit B	YVAHP120B32S	YVAHP144B32S	YVAHP144B32S
		Unit C	YVAHP120B32S	YVAHP120B32S	YVAHP144B32S
	460V, 3PH, 60Hz	Unit A	YVAHP144B42S	YVAHP144B42S	YVAHP144B42S
		Unit B	YVAHP120B42S	YVAHP144B42S	YVAHP144B42S
		Unit C	YVAHP120B42S	YVAHP120B42S	YVAHP144B42S
	575V, 3PH, 60Hz	Unit A	YVAHP144B52S	YVAHP144B52S	YVAHP144B52S
		Unit B	YVAHP120B52S	YVAHP144B52S	YVAHP144B52S
		Unit C	YVAHP120B52S	YVAHP120B52S	YVAHP144B52S

Nominal capacity	Cooling	Btu/h	384,000	408,000	432,000
	Heating	Btu/h	432,000	459,000	486,000
Performance [2] (non-duct / duct)	Rated cooling capacity [1]	Btu/h	366,000	380,000	400,000
	EER	Btu/Wh	9.6 / 9.5	9.5 / 9.5	9.5 / 9.6
	IEER	Btu/Wh	19.6 / 18.6	19.3 / 19.2	19.5 / 19.0
	Rated heating capacity [1]	Btu/h	410,000	435,000	460,000
	COP	W/W	3.37 / 3.33	3.34 / 3.37	3.21 / 3.35
	Sound pressure	dB(A)	69		70
Operating [4] temperature range	Cooling [3]	°F DB [°C DB]	23 ~ 122 [-5 ~ 50]		
	Heating	°F WB [°C WB]	-13 ~ 59 [-25 ~ 15]		
Refrigerant	Type		R410A		
	Factory charge amount	lb. [kg]	23.6+21.8+21.8 [10.7+9.9+9.9]	23.6+23.6+21.8 [10.7+10.7+9.9]	23.6+23.6+23.6 [10.7+10.7+10.7]
Refrigerant piping	Liquid pipe	in. [mm]	3/4 [19.05]	3/4 [19.05]	3/4 [19.05]
	Gas pipe	in. [mm]	1-5/8 [41.28]	1-5/8 [41.28]	1-5/8 [41.28]
Connection ratio	Connection ratio range [5]	%	55 ~ 130(150)		
	Number of indoor units (recommended / maximum)	Qty.	30 / 64		
Electrical	Minimum circuit amps, MCA (Unit A + Unit B + Unit C) (208V/230V/460V/575V)	A	58+46+46 / 52+42+42 / 30+24+24 / 24+19+19	58+58+46 / 52+52+42 / 30+30+24 / 24+24+19	58+58+58 / 52+52+52 / 30+30+30 / 24+24+24
	Maximum overcurrent protection, MOP (Unit A + Unit B + Unit C) (208V/230V/460V/575V)	A	70+60+60 / 70+60+60 / 35+30+30 / 30+25+25	70+70+60 / 70+70+60 / 35+35+30 / 30+30+25	70+70+70 / 70+70+70 / 35+35+35 / 30+30+30
Compressor	Compressor type		Inverter		
	Operation range	%	2 ~ 100		
Fan	Fan type		Propeller fan x6		
	Airflow rate	cfm [m^3/min]	9037+9037+9037 [256+256+256]		
	External static pressure [6]	in. WG [Pa]	0 ~ 0.32 [0 ~ 80]		
Unit	Dimensions (H x W x D)	in. [mm]	66-1/4 x 147-7/16 x 30-1/2 [1683 x 3745 x 774]		
	Weight (Unit A + Unit B + Unit C) (208,230V/460V/575V)	lb. [kg]	723+721+721 / 728+725+725 / 728+725+725 [328+327+327 / 330+329+329 / 330+329+329]	723+723+721 / 728+728+725 / 728+728+725 [328+328+327 / 330+330+329 / 330+330+329]	723+723+723 / 728+728+728 / 728+728+728 [328+328+328 / 330+330+330 / 330+330+330]

NOTES:

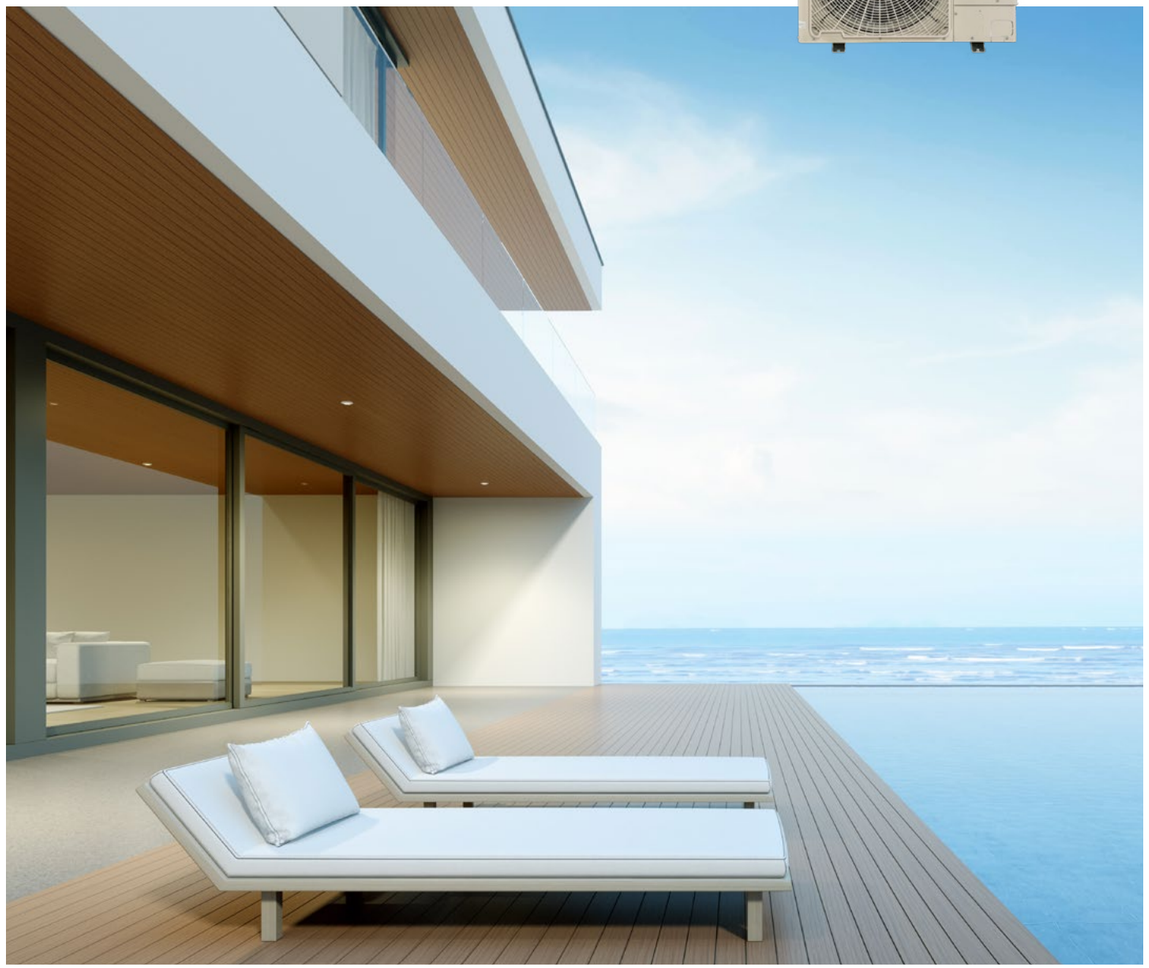
1. Nominal capacity conditions are based on AHRI standard. Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 1230 test standard.
3. Extended cooling operating temperature range down to 14 °F DB [-10 °C DB] with snow protection hood, and down to -10 °F DB [-23 °C DB] with low ambient kit. However, upper limit temperature for cooling operation is restricted up to 109 °F DB [43 °C DB].
4. For details, refer to Engineering Manual.
5. For details, refer to Engineering Manual.
6. External static pressure can be changed by DSW setting.

Variable refrigerant flow systems | Air-source outdoor units

208/230V air-source mini-VRF single-phase heat pump outdoor units

3-, 4- and 5-ton systems

Meet diverse application needs with YORK Mini-VRF Outdoor Units. Units are available in a range of capacities, providing exceptional design freedom. Each unit can operate multiple indoor units. Building occupants will appreciate the unit's industry leading quiet operation.



Good things come in small packages

Mini-VRF systems offer a host of benefits to you and your customers. These small-footprint systems offer tremendous design flexibility, enabling you to solve multiple HVAC challenges. And your customers will appreciate the exceptional energy savings and individualized comfort they provide.

Design with freedom

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. There is no need to remove and replace the original unit or reconfigure ductwork.

Install with ease

YORK air-source Mini-VRF systems are designed for quick and simple installation. Piping from the outdoor units can be connected from the front, back, side, or underneath. Indoor units are relatively small and light and easy to transport and handle.

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.

Enjoy guilt-free comfort

These compact systems are among the most energy-efficient HVAC options available today, so customers never have to choose between comfort and savings.

Variable-speed compressors provide extremely high part-load efficiency. And the systems essentially eliminate the energy loss that occurs in conventional, ducted central systems which may account for as much as 30 percent of energy consumption. In fact, these green technology systems can help customers attain LEED® certification points for resource efficiency.

Occupants will enjoy unparalleled comfort with YORK air-source Mini-VRF Systems. Temperature can be set individually for multiple zones to suit different needs. And, once the temperature is set, the system's variable-speed compressors and precise modulation help maintain it within a narrow range, ensuring consistent comfort. Occupants will also appreciate the system's whisper-quiet operation.

AHRI CERTIFIED www.ahridirectory.org Unitary Small HP AHRI Standard 210/240 Certification applies only when the complete system is listed with AHRI.

c ETL LISTED us Intertek

Industry certified
YORK air-source Mini VRF systems are Intertek ETL Listed (Canada and 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.

YORK mini VRF systems boast impressive efficiency ratings:

- Seasonal energy efficiency ratio (SEER) up to 24.1
- Energy efficiency ratio (EER) up to 16.7
- Heating seasonal performance factor (HSPF) up to 12.8

ENERGY STAR

ENERGY STAR certified product
(only for 3- and 4-ton)
Proper sizing and installation of equipment is critical to achieve optimal performance.

Variable refrigerant flow systems | Air-source outdoor units

Mini-VRF heat pump outdoor units

208/230V | 3-, 4- and 5-ton systems

ENERGY STAR

3-, 4- and 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) [1]	Cooling	Capacity (nominal)	Btu/h	(kW)	36,000	(10.6)	48,000	(14.1)	60,000	(17.6)
		Power input	kW		2.53		3.78		5.05	
		Current input	A		12.3 / 11.1		18.6 / 16.9		24.8 / 22.4	
	Heating	Capacity (nominal)	Btu/h	(kW)	40,000	11.7	54,000	15.8	64,000	18.7
		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 [2]	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		16.70	13.80	16.70	13.10	12.20	9.70
		SEER	Btu/Wh		23.50	18.70	24.10	18.40	16.80	16.00
	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		12.80	11.00	11.70	11.80	12.10	11.00
Cooling operating range [3]	Outdoor		°F DB (°C DB)		23 (-5) ~ 118 (48)		23 (-5) ~ 118 (48)		23 (-5) ~ 118 (48)	
Heating operating range [3]	Outdoor		°F WB (°C WB)		-4 (-20) ~ 59 (15)		-4 (-20) ~ 59 (15)		-4 (-20) ~ 59 (15)	
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)
Weight	Net		lbs	(kg)	249	(113)	249	(113)	249	(113)
Connection ratio	Total indoor unit capacity		%		60-130		60-130		60-105	
	Max. (Recommendation) indoor units/system				6		8		8	
Compressor	Type		–		HA36PHD-A1S2		HA36PHD-A1S2		A36PHD-A1S2	
	Motor output (pole)		– / –		3PH / 6		3PH / 6		3PH / 6	
	Operation range		%		10 ~ 100		10 ~ 100		10 ~ 100	
	Refrigeration oil type		–		FVC68D		FVC68D		FVC68D	
Fan	Type		–		Propeller fan		Propeller fan		Propeller fan	
	Motor output		W		58 + 58		58 + 58		58 + 58	
	Quantity		Q'ty		2					
	Air flow rate		cfm	(m^3/min)	3177	(90)	3530	(100)	3530	(100)
Electrical	Min circuit amps		A		31		31		31	
	Max. Overcurrent protective device		A		40					
Sound pressure level [4]	Cooling (night-shift)		dB(A)		51	(44)	52	(46)	53	(46)
	Heating		dB(A)		52		54		56	
Refrigerant	Type		-		R410A					
	Charge amount		lbs	(kg)	7.9	(3.6)	7.9	(3.6)	7.9	(3.6)
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:
1. Nominal capacity conditions are based on AHRI standard Visit www.ahrinet.org for more information.
2. Efficiency ratings are based on the AHRI 210/240 test standard.
3. There are some exceptions and notes for cooling and cooling operation ranges. For details, refer to Section 2.12 "Operation Range".
4. Measurement Point: 3.3 ft. (1m) from the air outlet side, 4.9 ft. (1.5m) from floor level. The operation sound is measured in an anechoic chamber. However, the actual operation sound may appear louder or with an echo because of surrounding environmental noise. Be sure to check environmental conditions before installation. The sound of the air inlet side may be 3dB higher than that of the air outlet side.
5. Unit is ENERGY STAR certified.

Water-source units

Solve more HVAC challenges

Bring the advantages of VRF technology to more customers with YORK water-source VRF systems. Due to the fact all equipment is housed indoors, YORK water-source VRF systems are the ideal solution for any application where outdoor equipment placement is problematic.

Design with freedom

Custom solutions for challenging applications

Bring cost-efficient YORK VRF technology to applications where outdoor conditions or roof lines/weight limits challenge other systems.

Key Benefits

All components are protected from the elements, solving problems presented by:

- Harsh climates and coastal regions
- Roof weight, exterior appearance, and external noise concerns

Largest-capacity systems in industry

- Modules in capacities from six to 48 tons can be configured in multiple ways to meet exact application requirements

Connection ratio range of 50 – 130 percent

- Provides design flexibility
- Minimizes initial costs

Impressive efficiency ratings

- Non-ducted systems
  - IEER 18.9 to 29
  - COP: 4.00 to 6.30
- Ducted systems
  - IEER 16.9 to 23.8
  - COP: 4.00 to 5.00

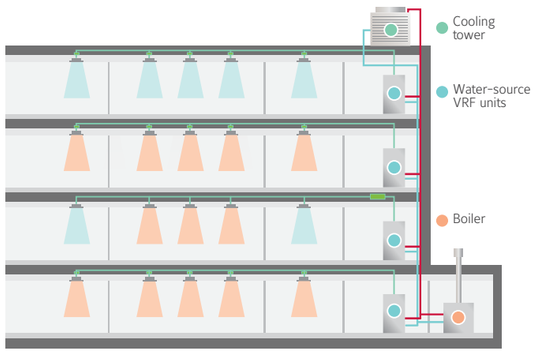
Small, light, modular units

- Require minimal space
- Increase design flexibility
- Simplify transportation and installation
- Enable modules to be stacked with racking
- Allow more space to be rented

Code Compliance

- Less refrigerant is required for water-source VRF for easier compliance with ASHRAE Standard 15

System basics



A water loop between a cooling tower and the water-source VRF unit is used as a heat exchanger for the refrigerant. Water inlet temperature remains 50-113°F.

The water-source VRF unit modulates so only the amount of refrigerant needed to meet individual zone demand is distributed.

Heat pump systems can gain efficiencies utilizing heat recovery to and from the water loop.

Heat recovery water-source units gain efficiencies because heat can be exchanged both within the refrigerant circuit and in the water loop.

Boilers can be added in cold-weather climates to maintain the temperature of the water loop.

Problem solved

Project challenges are no match for YORK water-source VRF systems:

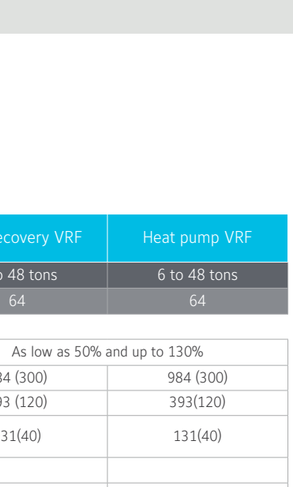
- High-rise buildings
- Coastal areas and cold-weather climates
- Architecturally restricted properties
- Where local codes limit refrigerant use
- Buildings with cooling towers/boilers
- Applications in which cost savings are paramount
- Where space or weight are an issue

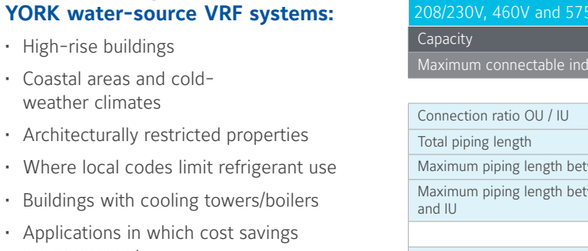
Heat pump and heat recovery units 208/230V, 460V and 575V		Heat recovery VRF	Heat pump VRF
Capacity		6 to 48 tons	6 to 48 tons
Maximum connectable indoor unit quantity		64	64
Connection ratio OU / IU		As low as 50% and up to 130%	
Total piping length	ft (m)	984 (300)	984 (300)
Maximum piping length between OU and IU	ft (m)	393 (120)	393(120)
Maximum piping length between 1st branch and IU	ft (m)	131(40)	131(40)
Maximum height difference between OU and IU (when OU is higher than IU)	ft (m)	164 (50)	164(50)
Maximum height difference between OU and IU (when IU is higher than OU)	ft (m)	131 (40)	131 (40)
Maximum height difference between IU and IU	ft (m)	49 (15)	49 (15)
Entering water temperature*	°F (°C)	50(10) to 113(45)	50(10) to 113(45)

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

YORK water-source VRF systems advantages

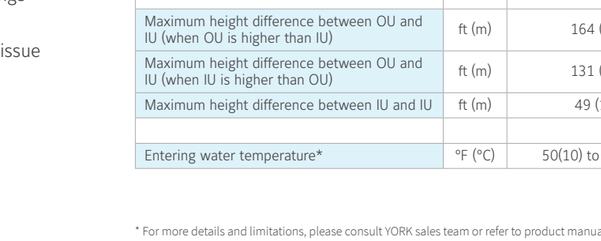
Systems are designed with dual heat recovery – heat can be recovered in both the water and refrigerant circuits

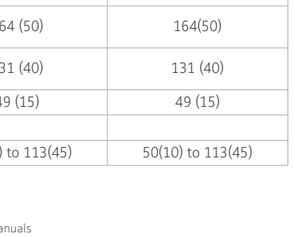




Dual fuels can be used – electricity for VRF units and natural gas or electricity for boiler

Defrost mode is not required – increasing energy savings and comfort





Overview

YORK water-source VRF systems units provide maximum flexibility for modular design.

Heat recovery models 208/230V

6- to 18-ton single-module systems

6-ton YVWHR072B32S
8-ton YVWHR096B32S
10-ton YVWHR120B32S
12-ton YVWHR144B32S
14-ton YVWHR168B32S
16-ton YVWHR192B32S
18-ton YVWHR216B32S

20- to 36-ton double-module systems

20-ton YVWHR240B32S
22-ton YVWHR264B32S
24-ton YVWHR288B32S
26-ton YVWHR312B32S
28-ton YVWHR336B32S
30-ton YVWHR360B32S
32-ton YVWHR384B32S
34-ton YVWHR408B32S
36-ton YVWHR432B32S

38- to 48-ton triple-module systems

38-ton YVWHR456B32S
40-ton YVWHR480B32S
42-ton YVWHR504B32S
44-ton YVWHR528B32S
46-ton YVWHR552B32S
48-ton YVWHR576B32S

Heat recovery models 460V

6- to 18-ton single-module systems

6-ton YVWHR072B42S
8-ton YVWHR096B42S
10-ton YVWHR120B42S
12-ton YVWHR144B42S
14-ton YVWHR168B42S
16-ton YVWHR192B42S
18-ton YVWHR216B42S

20- to 36-ton double-module systems

20-ton YVWHR240B42S
22-ton YVWHR264B42S
24-ton YVWHR288B42S
26-ton YVWHR312B42S
28-ton YVWHR336B42S
30-ton YVWHR360B42S
32-ton YVWHR384B42S
34-ton YVWHR408B42S
36-ton YVWHR432B42S

38- to 48-ton triple-module systems

38-ton YVWHR456B42S
40-ton YVWHR480B42S
42-ton YVWHR504B42S
44-ton YVWHR528B42S
46-ton YVWHR552B32S
48-ton YVWHR576B42S

Heat recovery models 575V

6- to 18-ton single-module systems

6-ton YVWHR072B52S
8-ton YVWHR096B52S
10-ton YVWHR120B52S
12-ton YVWHR144B52S
14-ton YVWHR168B52S
16-ton YVWHR192B52S
18-ton YVWHR216B52S

20- to 36-ton double-module systems

20-ton YVWHR240B52S
22-ton YVWHR264B52S
24-ton YVWHR288B52S
26-ton YVWHR312B52S
28-ton YVWHR336B52S
30-ton YVWHR360B52S
32-ton YVWHR384B52S
34-ton YVWHR408B52S
36-ton YVWHR432B52S

38- to 48-ton triple-module systems

38-ton YVWHR456B52S
40-ton YVWHR480B52S
42-ton YVWHR504B52S
44-ton YVWHR528B52S
46-ton YVWHR552B52S
48-ton YVWHR576B52S

Heat pump models 208/230V

6- to 18-ton single-module systems

6-ton YVWHP072B32S
8-ton YVWHP096B32S
10-ton YVWHP120B32S
12-ton YVWHP144B32S
14-ton YVWHP168B32S
16-ton YVWHP192B32S
18-ton YVWHP216B32S

20- to 36-ton double-module systems

20-ton YVWHP240B32S
22-ton YVWHP264B32S
24-ton YVWHP288B32S
26-ton YVWHP312B32S
28-ton YVWHP336B32S
30-ton YVWHP360B32S
32-ton YVWHP384B32S
34-ton YVWHP408B32S
36-ton YVWHP432B32S

38- to 48-ton triple-module systems

38-ton YVWHP456B32S
40-ton YVWHP480B32S
42-ton YVWHP504B32S
44-ton YVWHP528B32S
46-ton YVWHP552B32S
48-ton YVWHP576B32S

Heat pump models 460V

6- to 18-ton single-module systems

6-ton YVWHP072B42S
8-ton YVWHP096B42S
10-ton YVWHP120B42S
12-ton YVWHP144B42S
14-ton YVWHP168B42S
16-ton YVWHP192B42S
18-ton YVWHP216B42S

20- to 36-ton double-module systems

20-ton YVWHP240B42S
22-ton YVWHP264B42S
24-ton YVWHP288B42S
26-ton YVWHP312B42S
28-ton YVWHP336B42S
30-ton YVWHP360B42S
32-ton YVWHP384B42S
34-ton YVWHP408B42S
36-ton YVWHP432B42S

38- to 48-ton triple-module systems

38-ton YVWHP456B42S
40-ton YVWHP480B42S
42-ton YVWHP504B42S
44-ton YVWHP528B42S
46-ton YVWHP552B42S
48-ton YVWHP576B42S

Heat pump models 575V

6- to 18-ton single-module systems

6-ton YVWHP072B52S
8 -ton YVWHP096B52S
10-ton YVWHP120B52S
12-ton YVWHP144B52S
14-ton YVWHP168B52S
16-ton YVWHP192B52S
18-ton YVWHP216B52S

20- to 36-ton double-module systems

20-ton YVWHP240B52S
22-ton YVWHP264B52S
24-ton YVWHP288B52S
26-ton YVWHP312B52S
28-ton YVWHP336B52S
30-ton YVWHP360B52S
32-ton YVWHP384B52S
34-ton YVWHP408B52S
36-ton YVWHP432B52S

38- to 48-ton triple-module systems

38-ton YVWHP456B52S
40-ton YVWHP480B52S
42-ton YVWHP504B52S
44-ton YVWHP528B52S
46-ton YVWHP552B52S
48-ton YVWHP576B52S

Water-source VRF heat pump and heat recovery units

208/230V, 460V and 575V 6- to 8-ton systems

Tonnage			6-ton		8-ton	
Model #	208/230V, 3PH, 60Hz		YVWHP072B32S	YVWHR072B32S	YVWHP096B32S	YVWHR096B32S
	460V, 3PH, 60Hz		YVWHP072B42S	YVWHR072B42S	YVWHP096B42S	YVWHR096B42S
	575V, 3PH, 60Hz		YVWHP072B52S	YVWHR072B52S	YVWHP096B52S	YVWHR096B52S
Unit type (Heat Pump: HP, Heat Recovery: HR)			HP	HR	HP	HR
Nominal capacity	Cooling	Btu/h	72,000		96,000	
	Heating	Btu/h	81,000		108,000	
Performance[2] (non-ducted / ducted)	Rated cooling capacity[1]	Btu/h	69,000		92,000	
	EER	Btu/Wh	17.1 / 13.6		13.7 / 12.6	
	IEER	Btu/Wh	29.0 / 22.5		25.2 / 22.3	
	Rated heating capacity[1]	Btu/h	77,000		103,000	
	COP	W/W	6.30 / 4.65		5.05 / 4.40	
	SCHE	Btu/Wh	-	21.7 / 12.4	-	16.6 / 15.1
	Sound pressure[5]	dB(A)	55		57	
Refrigerant piping	Liquid pipe	in. [mm]	3/8 [9.52]		3/8 [9.52]	
	High/low pressure gas pipe	in. [mm]	3/4 [19.05]	5/8 [15.88]	7/8 [22.2]	3/4 [19.05]
	Low pressure gas pipe	in. [mm]	-	3/4 [19.05]	-	7/8 [22.2]
Connection ratio	Connection ratio range[4]	%	50 -130			
	Number of indoor units (recommended / maximum)	Qty.	8 / 13		8 / 16	
Water Side	Inlet pipe	in. [mm]	1-1/4 - 11-1/2 NPT			
	Outlet pipe	in. [mm]	1-1/4 - 11-1/2 NPT			
	Condensation pipe	in. [mm]	1/2 NPT			
	Maximum system water pressure	psi [MPa]	285 [1.96]			
	Inlet water temperature range[3]	°F [°C]	50 -113 [10 - 45]			
	Water flow range per unit (Rated/range)	gpm [L/m]	15.1 [57] / 11 - 31 [40 - 120]		20.3 [77] / 14 - 39 [50 - 150]	
Electrical	Minimum circuit amps, MCA (208V/230V/460V/575V)	A	20 / 18 / 11 / 9		32 / 29 / 17 / 13	
	Maximum overcurrent protection, MOP (208V/230V/460V/575V)	A	30 / 30 / 15 / 10		50 / 45 / 25 / 15	
Compressor	Compressor type		Inverter			
	Operating range	%	10 - 100			
Unit	Dimensions (H x W x D)	in. [mm]	39-3/8 x 30-11/16 x 21-5/8 [1000 x 780 x 550]			
	Weight (208,230V/460,575V)	lb. [kg]	370 / 379 [168 / 172]			

NOTES:
1 Rating Conditions:

COOLING		HEATING	
Indoor Air Inlet Temperature:	80.6°F (27°C)DB 66.2°F (19°C)WB	Indoor Air Inlet Temperature:	68°F (20°C)DB
Entering Water Temperature:	86°F (30°C)	Entering Water Temperature:	68°F (20°C)
Piping Length:	24.6ft. (7.5m)		
Piping Lift:	0ft. (0m)		

2 Efficiency ratings are based on the AHRI 1230 test standard.
3 There are some exceptions and notes for each operation range. For details, refer to Engineering Manual.
4 For details, refer to Engineering Manual.
5 Measurement Point: 3.3ft. (1m) from the air outlet side, 3.3ft. (1m) from floor level. The operation sound is measured in an anechoic chamber. However, the actual operation sound may appear louder or with an echo because of surrounding environmental noise. Be sure to check environmental conditions before installation.

Water-source VRF heat pump and heat recovery units

208/230V, 460V and 575V 10- to 12-ton systems

Tonnage			10-ton		12-ton	
Model #	208/230V, 3PH, 60Hz		YVWHP120B32S	YVWHP120B32S	YVWHP144B32S	YVWHR144B32S
	460V, 3PH, 60Hz		YVWHP120B42S	YVWHR120B42S	YVWHP144B42S	YVWHR144B42S
	575V, 3PH, 60Hz		YVWHP120B52S	YVWHR120B52S	YVWHP144B52S	YVWHR144B52S
Unit type (Heat Pump: HP, Heat Recovery: HR)			HP	HR	HP	HR
Nominal capacity	Cooling	Btu/h	120,000		144,000	
	Heating	Btu/h	135,000		162,000	
Performance[2] (non-ducted / ducted)	Rated cooling capacity[1]	Btu/h	115,000		138,000	
	EER	Btu/Wh	14.4 / 13.0		15.0 / 14.0	
	IEER	Btu/Wh	26.1 / 22.6		24.9 / 23.8	
	Rated heating capacity[1]	Btu/h	129,000		154,000	
	COP	W/W	4.95 / 4.62		5.42 / 5.00	
	SCHE	Btu/Wh	-	21.8 / 19.8	-	21.9 / 19.9
	Sound pressure[5]	dB(A)	60		58	
Refrigerant piping	Liquid pipe	in. [mm]	1/2 [12.7]		1/2 [12.7]	
	High/low pressure gas pipe	in. [mm]	7/8 [22.2]	3/4 [19.05]	1-1/8 [28.58]	7/8 [22.2]
	Low pressure gas pipe	in. [mm]	-	7/8 [22.2]	-	1-1/8 [28.58]
Connection ratio	Connection ratio range[4]	%	50 -130			
	Number of indoor units (recommended / maximum)	Qty.	8 / 23		10 / 26	
Water Side	Inlet pipe	in. [mm]	1-1/4 - 11-1/2 NPT			
	Outlet pipe	in. [mm]	1-1/4 - 11-1/2 NPT			
	Condensation pipe	in. [mm]	1/2 NPT			
	Maximum system water pressure	psi [MPa]	285 [1.96]			
	Inlet water temperature range[3]	°F [°C]	50 -113 [10 - 45]			
	Water flow range per unit (Rated/range)	gpm [L/m]	25.4 [96] / 20 - 56 [72 - 214]		36.5 [138] / 22 - 63 [81 - 241]	
Electrical	Minimum circuit amps, MCA (208V/230V/460V/575V)	A	38 / 34 / 20 / 16		37 / 34 / 20 / 16	
	Maximum overcurrent protection, MOP (208V/230V/460V/575V)	A	60 / 50 / 30 / 20		50 / 45 / 25 / 20	
Compressor	Compressor type		Inverter			
	Operating range	%	10 - 100			
Unit	Dimensions (H x W x D)	in. [mm]	39-3/8 x 30-11/16 x 21-5/8 [1000 x 780 x 550]		39-3/8 x 39-3/8 x 21-5/8 [1000 x 1000 x 550]	
	Weight (208,230V/460,575V)	lb. [kg]	381 / 390 [173 / 177]		556 / 564 [252 / 256]	

NOTES:
1 Rating Conditions:

COOLING		HEATING	
Indoor Air Inlet Temperature:	80.6°F (27°C)DB 66.2°F (19°C)WB	Indoor Air Inlet Temperature:	68°F (20°C)DB
Entering Water Temperature:	86°F (30°C)	Entering Water Temperature:	68°F (20°C)
Piping Length:	24.6ft. (7.5m)		
Piping Lift:	0ft. (0m)		

2 Efficiency ratings are based on the AHRI 1230 test standard.
3 There are some exceptions and notes for each operation range. For details, refer to Engineering Manual.
4 For details, refer to Engineering Manual.
5 Measurement Point: 3.3ft. (1m) from the air outlet side, 3.3ft. (1m) from floor level. The operation sound is measured in an anechoic chamber. However, the actual operation sound may appear louder or with an echo because of surrounding environmental noise. Be sure to check environmental conditions before installation.

Water-source VRF heat pump and heat recovery units

208/230V, 460V and 575V 14- to 18-ton systems

Tonnage			14-ton		16-ton		18-ton	
Model #	208/230V, 3PH, 60Hz		YVWHP 168B32S	YVWHR 168B32S	YVWHP 192B32S	YVWHR 192B32S	YVWHP 216B32S	YVWHR 216B32S
	460V, 3PH, 60Hz		YVWHP 168B42S	YVWHR 168B42S	YVWHP 192B42S	YVWHR 192B42S	YVWHP 216B42S	YVWHR 216B42S
	575V, 3PH, 60Hz		YVWHP 168B52S	YVWHR 168B52S	YVWHP 192B52S	YVWHR 192B52S	YVWHP 216B52S	YVWHR 216B52S
Unit type (Heat Pump: HP, Heat Recovery: HR)			HP	HR	HP	HR	HP	HR
Nominal capacity	Cooling	Btu/h	168,000		192,000		216,000	
	Heating	Btu/h	189,000		216,000		243,000	
Performance[2] (non-ducted / ducted)	Rated cooling capacity[1]	Btu/h	160,000		184,000		206,000	
	EER	Btu/Wh	13.9 / 13.2		12.9 / 12.3		11.3 / 10.7	
	IEER	Btu/Wh	22.7 / 20.4		20.9 / 21.0		20.3 / 19.5	
	Rated heating capacity[1]	Btu/h	180,000		206,000		232,000	
	COP	W/W	5.30 / 4.90		4.85 / 4.50		4.30 / 4.05	
	SCHE	Btu/Wh	-	22.6 / 20.5	-	26.5 / 25.4	-	19.3 / 17.6
	Sound pressure[5]	dB(A)	58		59			
Refrigerant piping	Liquid pipe	in. [mm]	5/8 [15.88]		5/8 [15.88]		5/8 [15.88]	
	High/low pressure gas pipe	in. [mm]	1-1/8 [28.58]	7/8 [22.2]	1-1/8 [28.58]	7/8 [22.2]	1-1/8 [28.58]	7/8 [22.2]
	Low pressure gas pipe	in. [mm]	-	1-1/8 [28.58]	-	1-1/8 [28.58]	-	1-1/8 [28.58]
Connection ratio	Connection ratio range[4]	%	50 -130					
	Number of indoor units (recommended / maximum)	Qty.	12 / 29		14 / 33			
Water side	Inlet pipe	in. [mm]	1-1/4 - 11-1/2 NPT					
	Outlet pipe	in. [mm]	1-1/4 - 11-1/2 NPT					
	Condensation pipe	in. [mm]	1/2 NPT					
	Maximum system water pressure	psi [MPa]	285 [1.96]					
	Inlet water temperature range[3]	°F [°C]	50 -113 [10 - 45]					
	Water flow range per unit (Rated/range)	gpm [L/m]	44.1 [167] / 24 - 70 [90 - 268]		51 [193] / 27 - 79 [101 - 301]		56 [212] /27 - 79 [101 - 301]	
Electrical	Minimum circuit amps, MCA (208V / 230V / 460V)	A	41 / 37 / 22 / 18		55 / 50 / 29 / 23		71 / 64 / 37 / 29	
	Maximum overcurrent protection, MOP (208V / 230V / 460V)	A	50 / 50 / 25 / 20		70 / 60 / 40 / 30		90 / 80 / 50 / 35	
Compressor	Compressor type		Inverter					
	Operating range	%	10 - 100					
Unit	Dimensions (H x W x D)	in. [mm]	39-3/8 x 39-3/8 x 21-5/8 [1000 x 1000 x 550]					
	Weight (208, 230V / 460V)	lb. [kg]	558 / 567 [253 / 257]					

NOTES:

1 Rating Conditions:

COOLING		HEATING	
Indoor Air Inlet Temperature:	80.6°F (27°C)DB 66.2°F (19°C)WB	Indoor Air Inlet Temperature:	68°F (20°C)DB
Entering Water Temperature:	86°F (30°C)	Entering Water Temperature:	68°F (20°C)
Piping Length:	24.6ft. (7.5m)		
Piping Lift:	0ft. (0m)		

2 Efficiency ratings are based on the AHRI 1230 test standard.
3 There are some exceptions and notes for each operation range. For details, refer to Engineering Manual.
4 For details, refer to Engineering Manual.
5 Measurement Point: 3.3ft. (1m) from the air outlet side, 3.3ft. (1m) from floor level. The operation sound is measured in an anechoic chamber. However, the actual operation sound may appear louder or with an echo because of surrounding environmental noise. Be sure to check environmental conditions before installation.

Water-source VRF heat pump and heat recovery units

208/230V, 460V and 575V 20- to 24-ton systems

Tonnage				20-ton		22-ton		24-ton	
Model #	208/230V, 3PH, 60Hz			YVWHP 240B32S	YVWHR 240B32S	YVWHP 264B32S	YVWHR 264B32S	YVWHP 288B32S	YVWHR 288B32S
	460V, 3PH, 60Hz			YVWHP 240B42S	YVWHR 240B42S	YVWHP 264B42S	YVWHR 264B42S	YVWHP 288B42S	YVWHR 288B42S
	575V, 3PH, 60Hz			YVWHP 240B52S	YVWHR 240B52S	YVWHP 264B52S	YVWHR 264B52S	YVWHP 288B52S	YVWHR 288B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A		YVWHP 120B32S	YVWHR 120B32S	YVWHP 144B32S	YVWHR 144B32S	YVWHP 144B32S	YVWHR 144B32S
		Unit B		YVWHP 120B32S	YVWHR 120B32S	YVWHP 120B32S	YVWHR 120B32S	YVWHP 144B32S	YVWHR 144B32S
	460V, 3PH, 60Hz	Unit A		YVWHP 120B42S	YVWHR 120B42S	YVWHP 144B42S	YVWHR 144B42S	YVWHP 144B42S	YVWHR 144B42S
		Unit B		YVWHP 120B42S	YVWHR 120B42S	YVWHP 120B42S	YVWHR 120B42S	YVWHP 144B42S	YVWHR 144B42S
	575V, 3PH, 60Hz	Unit A		YVWHP 120B52S	YVWHR 120B52S	YVWHP 144B52S	YVWHR 144B52S	YVWHP 144B52S	YVWHR 144B52S
		Unit B		YVWHP 120B52S	YVWHR 120B52S	YVWHP 120B52S	YVWHR 120B52S	YVWHP 144B52S	YVWHR 144B52S
Unit type (Heat Pump: HP, Heat Recovery: HR)				HP	HR	HP	HR	HP	HR
Nominal capacity	Cooling		Btu/h	240,000		264,000		288,000	
	Heating		Btu/h	2700,00		297,000		324,000	
Performance[2] (non-ducted / ducted)	Rated cooling capacity[1]		Btu/h	230,000		252,000		276,000	
	EER		Btu/Wh	13.5 / 12.0		13.4 / 12.9		14.0 / 13.5	
	IEER		Btu/Wh	24.2 / 21.5		23.1 / 22.0		22.5 / 22.0	
	Rated heating capacity[1]		Btu/h	258,000		282,000		308,000	
	COP		W/W	5.15 / 4.50		5.05 / 4.60		5.00 / 4.65	
	SCHE		Btu/Wh	-	20.0 / 19.1	-	18.5 / 21.5	-	18.9 / 19.8
	Sound pressure[5]		dB(A)	63		62.5		61	
Refrigerant piping	Liquid pipe		in. [mm]	3/4 [19.05]		3/4 [19.05]		3/4 [19.05]	
	High/low pressure gas pipe		in. [mm]	1-1/8 [28.58]	7/8 [22.2]	1-3/8 [34.93]	1-1/8 [28.58]	1-3/8 [34.93]	1-1/8 [28.58]
	Low pressure gas pipe		in. [mm]	-	1-1/8 [28.58]	-	1-3/8 [34.93]	-	1-3/8 [34.93]
Connection ratio	Connection ratio range[4]		%	50 -130					
	Number of indoor units (recommended / maximum)		Qty.	16 / 46		18 / 49		20 / 52	
Water side	Inlet pipe		in. [mm]	1-1/4 - 11-1/2 NPT					
	Outlet pipe		in. [mm]	1-1/4 - 11-1/2 NPT					
	Condensation pipe		in. [mm]	1/2 NPT					
	Maximum system water pressure		psi [MPa]	285 [1.96]					
	Inlet water temperature range[3]		°F [°C]	50 -113 [10 - 45]					
	Water flow range per unit (Rated/range) (Unit A + Unit B)		gpm [L/m]	25.4 + 25.4 [96 + 96] / 20 - 56 [72 - 214] + 21 - 56 [72 - 214]		36.5 + 25.4 [138 + 96] / 22 - 63 [81 - 241] + 20 - 56 [72 - 214]		36.5 + 36.5 [138 + 138] / 22 - 63 [81 - 241] + 22 - 63 [81 - 241]	
Electrical	Minimum circuit amps, MCA (208V/230V/460V/575V) (Unit A + Unit B)		A	38+38 / 34+34 / 20+20 /16+16		37+38 / 34+34 / 20+20 /16+16		37+37 / 34+34 / 20+20 /16+16	
	Maximum overcurrent protection, MOP (208V/230V/460V/575V) (Unit A + Unit B)		A	60+60 / 50+50 / 30+30 / 20+20		50+60 / 45+50 / 25+30 / 20+20		50+50 / 45+45 / 25+25 / 20+20	
Compressor	Compressor type			Inverter					
	Operating range		%	10 - 100					
Unit	Dimensions (H x W x D)		in. [mm]	39-3/8 x 65-3/8 x 21-5/8 [1000 x 1660 x 550]		39-3/8 x 74 x 21-5/8 [1000 x 1880 x 550]		39-3/8 x 82-11/16 x 21-5/8 [1000 x 2100 x 550]	
	Weight (208,230V/460,575V) (Unit A + Unit B)		lb. [kg]	381+381 / 390+390 [173+173 / 177+177]		556+381 / 564+390 [252+173 / 256+177]		556+556 / 564+564 [252+252 / 256+256]	

NOTES:

1 Rating Conditions:

COOLING		HEATING	
Indoor Air Inlet Temperature:	80.6°F (27°C)DB 66.2°F (19°C)WB	Indoor Air Inlet Temperature:	68°F (20°C)DB
Entering Water Temperature:	86°F (30°C)	Entering Water Temperature:	68°F (20°C)
Piping Length:	24.6ft. (7.5m)		
Piping Lift:	0ft. (0m)		

2 Efficiency ratings are based on the AHRI 1230 test standard.
3 There are some exceptions and notes for each operation range. For details, refer to Engineering Manual.
4 For details, refer to Engineering Manual.
5 Measurement Point: 3.3ft. (1m) from the air outlet side, 3.3ft. (1m) from floor level. The operation sound is measured in an anechoic chamber. However, the actual operation sound may appear louder or with an echo because of surrounding environmental noise. Be sure to check environmental conditions before installation.

Water-source VRF heat pump and heat recovery units

208/230V, 460V and 575V 26- to 30-ton systems

Tonnage				26-ton		28-ton		30-ton	
Model #	208/230V, 3PH, 60Hz			YVWHP 312B32S	YVWHR 312B32S	YVWHP 336B32S	YVWHR 336B32S	YVWHP 360B32S	YVWHR 360B32S
	460V, 3PH, 60Hz			YVWHP 312B42S	YVWHR 312B42S	YVWHP 336B42S	YVWHR 336B42S	YVWHP 360B42S	YVWHR 360B42S
	575V, 3PH, 60Hz			YVWHP 312B52S	YVWHR 312B52S	YVWHP 336B52S	YVWHR 336B52S	YVWHP 360B52S	YVWHR 360B52S
Unit combination	208/230V, 3PH, 60Hz		Unit A	YVWHP 168B32S	YVWHR 168B32S	YVWHP 168B32S	YVWHR 168B32S	YVWHP 192B32S	YVWHR 192B32S
			Unit B	YVWHP 144B32S	YVWHR 144B32S	YVWHP 168B32S	YVWHR 168B32S	YVWHP 168B32S	YVWHR 168B32S
	460V, 3PH, 60Hz		Unit A	YVWHP 168B42S	YVWHR 168B42S	YVWHP 168B42S	YVWHR 168B42S	YVWHP 192B42S	YVWHR 192B42S
			Unit B	YVWHP 144B42S	YVWHR 144B42S	YVWHP 168B42S	YVWHR 168B42S	YVWHP 168B42S	YVWHR 168B42S
	575V, 3PH, 60Hz		Unit A	YVWHP 168B52S	YVWHR 168B52S	YVWHP 168B52S	YVWHR 168B52S	YVWHP 192B52S	YVWHR 192B52S
			Unit B	YVWHP 144B52S	YVWHR 144B52S	YVWHP 168B52S	YVWHR 168B52S	YVWHP 168B52S	YVWHR 168B52S
Unit type (Heat Pump: HR, Heat Recovery: HR)				HP	HR	HP	HR	HP	HR
Nominal capacity	Cooling		Btu/h	312,000		336,000		360,000	
	Heating		Btu/h	351,000		378,000		405,000	
Performance[2] (non-ducted / ducted)	Rated cooling capacity[1]		Btu/h	298,000		320,000		344,000	
	EER		Btu/Wh	13.4 / 13.2		12.9 / 12.8		12.65 / 12.6	
	IEER		Btu/Wh	21.4 / 21.5		20.7 / 20.5		19.7 / 18.6	
	Rated heating capacity[1]		Btu/h	334,000		360,000		382,000	
	COP		W/W	4.70 / 4.45		4.60 / 4.50		4.50 / 4.40	
	SCHE		Btu/Wh	-	18.5 / 20.2	-	18.2 / 21.8	-	18.1 / 23.6
	Sound pressure[5]		dB(A)	61				61.5	
Refrigerant piping	Liquid pipe		in. [mm]	3/4 [19.05]		3/4 [19.05]		3/4 [19.05]	
	High/low pressure gas pipe		in. [mm]	1-3/8 [34.93]	1-1/8 [28.58]	1-3/8 [34.93]	1-1/8 [28.58]	1-5/8 [41.28]	1-3/8 [34.93]
	Low pressure gas pipe		in. [mm]	-	1-3/8 [34.93]	-	1-3/8 [34.93]	-	1-5/8 [41.28]
Connection ratio	Connection ratio range[4]		%	50 -130					
	Number of indoor units (recommended / maximum)		Qty.	22 / 55		24 / 58		26 / 62	
Water side	Inlet pipe		in. [mm]	1-1/4 - 11-1/2 NPT					
	Outlet pipe		in. [mm]	1-1/4 - 11-1/2 NPT					
	Condensation pipe		in. [mm]	1/2 NPT					
	Maximum system water pressure		psi [MPa]	285 [1.96]					
	Inlet water temperature range[3]		°F [°C]	50 -113 [10 - 45]					
	Water flow range per unit (Rated/range) (Unit A + Unit B)		gpm [L/m]	44.1+36.5 [167+138] / 24 - 70 [90 - 268] + 22 - 63 [81 - 241]		44.1+44.1 [167+167] / 24 - 70 [90 - 268] + 24 - 70 [90 - 268]		51+44.1 [193+167] / 27 - 79 [101 - 301] + 24 - 70 [90 - 268]	
Electrical	Minimum circuit amps, MCA (208V/230V/460V/575V) (Unit A + Unit B)		A	41+37 / 37+34 / 22+20 / 18+16		41+41 / 37+37 / 22+22 /18+18		55+41 / 50+37 / 29+22 / 23+18	
	Maximum overcurrent protection, MOP (208V/230V/460V/575V) (Unit A + Unit B)		A	50+50 / 50+45 / 25+25 / 20+20		50+50 / 50+50 / 25+25 / 20+20		70+50 / 60+50 / 40+25 / 30+20	
Compressor	Compressor type			Inverter					
	Operating range		%	10 - 100					
Unit	Dimensions (H x W x D)		in. [mm]	39-3/8 x 82-11/16 x 21-5/8 [1000 x 2100 x 550]					
	Weight (Unit A + Unit B) (208, 230V / 460V)		lb. [kg]	558+556 / 567+564 [253+252 / 257+256]		558+558 / 567+567 [253+253 / 257+257]			

NOTES:
1 Rating Conditions:

COOLING		HEATING	
Indoor Air Inlet Temperature:	80.6°F (27°C)DB 66.2°F (19°C)WB	Indoor Air Inlet Temperature:	68°F (20°C)DB
Entering Water Temperature:	86°F (30°C)	Entering Water Temperature:	68°F (20°C)
Piping Length:	24.6ft. (7.5m)		
Piping Lift:	0ft. (0m)		

2 Efficiency ratings are based on the AHRI 1230 test standard.
3 There are some exceptions and notes for each operation range. For details, refer to Engineering Manual.
4 For details, refer to Engineering Manual.
5 Measurement Point: 3.3ft. (1m) from the air outlet side, 3.3ft. (1m) from floor level.
The operation sound is measured in an anechoic chamber. However, the actual operation sound may appear louder or with an echo because of surrounding environmental noise.
Be sure to check environmental conditions before installation.

Water-source VRF heat pump and heat recovery units

208/230V, 460V and 575V 32- to 36-ton systems

Tonnage				32-ton		34-ton		36-ton	
Model #	208/230V, 3PH, 60Hz			YVWHP 384B32S	YVWHR 384B32S	YVWHP 408B32S	YVWHR 408B32S	YVWHP 432B32S	YVWHR 432B32S
	460V, 3PH, 60Hz			YVWHP 384B42S	YVWHR 384B42S	YVWHP 408B42S	YVWHR 408B42S	YVWHP 432B42S	YVWHR 432B42S
	575V, 3PH, 60Hz			YVWHP 384B52S	YVWHR 384B52S	YVWHP 408B52S	YVWHR 408B52S	YVWHP 432B52S	YVWHR 432B52S
Unit combination	208/230V, 3PH, 60Hz		Unit A	YVWHP 192B32S	YVWHR 192B32S	YVWHP 216B32S	YVWHR 216B32S	YVWHP 216B32S	YVWHR 216B32S
			Unit B	YVWHP 192B32S	YVWHR 192B32S	YVWHP 192B32S	YVWHR 192B32S	YVWHP 216B32S	YVWHR 216B32S
	460V, 3PH, 60Hz		Unit A	YVWHP 192B42S	YVWHR 192B42S	YVWHP 216B42S	YVWHR 216B42S	YVWHP 216B42S	YVWHR 216B42S
			Unit B	YVWHP 192B42S	YVWHR 192B42S	YVWHP 192B42S	YVWHR 192B42S	YVWHP 216B42S	YVWHR 216B42S
	575V, 3PH, 60Hz		Unit A	YVWHP 192B52S	YVWHR 192B52S	YVWHP 216B52S	YVWHR 216B52S	YVWHP 216B52S	YVWHR 216B52S
			Unit B	YVWHP 192B52S	YVWHR 192B52S	YVWHP 192B52S	YVWHR 192B52S	YVWHP 216B52S	YVWHR 216B52S
Unit type (Heat Pump: HP, Heat Recovery: HR)				HP	HR	HP	HR	HP	HR
Nominal capacity	Cooling		Btu/h	384,000		408,000		432,000	
	Heating		Btu/h	432,000		459,000		486,000	
Performance[2] (non-ducted / ducted)	Rated cooling capacity[1]		Btu/h	366,000		390,000		414,000	
	EER		Btu/Wh	12.2 / 12.4		11.7 / 11.7		11.1 / 11.0	
	IEER		Btu/Wh	18.9 / 18.5		19.0 / 18.0		19.5 / 17.5	
	Rated heating capacity[1]		Btu/h	410,000		434,000		460,000	
	COP		W/W	4.30 / 4.20		4.15 / 4.10		4.10 / 4.00	
	SCHE		Btu/Wh	-	17.9 / 19.4	-	17.5 / 18.8	-	20.0 / 18.4
	Sound pressure[5]		dB(A)	62					
Refrigerant piping	Liquid pipe		in. [mm]	3/4 [19.05]		3/4 [19.05]		3/4 [19.05]	
	High/low pressure gas pipe		in. [mm]	1-5/8 [41.28]	1-3/8 [34.93]	1-5/8 [41.28]	1-3/8 [34.93]	1-5/8 [41.28]	1-3/8 [34.93]
	Low pressure gas pipe		in. [mm]	-	1-5/8 [41.28]	-	1-5/8 [41.28]	-	1-5/8 [41.28]
Connection ratio	Connection ratio range[4]		%	50 -130					
	Number of indoor units (recommended / maximum)		Qty.	28 / 64					
Water side	Inlet pipe		in. [mm]	1-1/4 - 11-1/2 NPT					
	Outlet pipe		in. [mm]	1-1/4 - 11-1/2 NPT					
	Condensation pipe		in. [mm]	1/2 NPT					
	Maximum system water pressure		psi [MPa]	285 [1.96]					
	Inlet water temperature range[3]		°F [°C]	50 -113 [10 - 45]					
	Water flow range per unit (Rated/range) (Unit A + Unit B)		gpm [L/m]	51+51 [193+193] / 27 - 79 [101 - 301] + 27 - 79 [101 - 301]		56+51 [212+193] / 27 - 79 [101 - 301] + 27 - 79 [101 - 301]		56+56 [212+212] / 27 - 79 [101 - 301] + 27 - 79 [101 - 301]	
Electrical	Minimum circuit amps, MCA (208V/230V/460V/575V) (Unit A + Unit B)		A	55+55 / 50+50 / 29+29 / 23+23		71+55 / 64+50 / 37+29 / 29+23		71+71 / 64+64 / 37+37 / 29+29	
	Maximum overcurrent protection, MOP (208V/230V/460V/575V) (Unit A + Unit B)		A	70+70 / 60+60 / 40+40 / 30+30		90+70 / 80+60 / 50+40 / 35+30		90+90 / 80+80 / 50+50 / 35+35	
Compressor	Compressor type			Inverter					
	Operating range		%	10 - 100					
Unit	Dimensions (H x W x D)		in. [mm]	39-3/8 x 82-11/16 x 21-5/8 [1000 x 2100 x 550]					
	Weight (208,230V/460,575V) (Unit A + Unit B)		lb. [kg]	558+558 / 567+567 [253+253 / 257+257]					

NOTES:
1 Rating Conditions:

COOLING		HEATING	
Indoor Air Inlet Temperature:	80.6°F (27°C)DB 66.2°F (19°C)WB	Indoor Air Inlet Temperature:	68°F (20°C)DB
Entering Water Temperature:	86°F (30°C)	Entering Water Temperature:	68°F (20°C)
Piping Length:	24.6ft. (7.5m)		
Piping Lift:	0ft. (0m)		

2 Efficiency ratings are based on the AHRI 1230 test standard.
3 There are some exceptions and notes for each operation range. For details, refer to Engineering Manual.
4 For details, refer to Engineering Manual.
5 Measurement Point: 3.3ft. (1m) from the air outlet side, 3.3ft. (1m) from floor level.
The operation sound is measured in an anechoic chamber. However, the actual operation sound may appear louder or with an echo because of surrounding environmental noise.
Be sure to check environmental conditions before installation.

Water-source VRF heat pump and heat recovery units

208/230V, 460V and 575V 38- to 42-ton systems

Tonnage			38-ton		40-ton		42-ton	
Model #	208/230V, 3PH, 60Hz		YVWHP 456B32S	YVWHR 456B32S	YVWHP 480B32S	YVWHR 480B32S	YVWHP 504B32S	YVWHR 504B32S
	460V, 3PH, 60Hz		YVWHP 456B42S	YVWHR 456B42S	YVWHP 480B42S	YVWHR 480B42S	YVWHP 504B42S	YVWHR 504B42S
	575V, 3PH, 60Hz		YVWHP 456B52S	HYVWHR 456B52S	YVWHP 480B52S	YVWHR 480B52S	YVWHP 504B52S	YVWHR 504B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A	YVWHP 168B32S	YVWHR 168B32S	YVWHP 168B32S	YVWHR 168B32S	YVWHP 168B32S	YVWHR 168B32S
		Unit B	YVWHP 144B32S	YVWHR 144B32S	YVWHP 168B32S	YVWHR 168B32S	YVWHP 168B32S	YVWHR 168B32S
		Unit C	YVWHP 144B32S	YVWHR 144B32S	YVWHP 144B32S	YVWHR 144B32S	YVWHP 168B32S	YVWHR 168B32S
	460V, 3PH, 60Hz	Unit A	YVWHP 168B42S	YVWHR 168B42S	YVWHP 168B42S	YVWHR 168B42S	YVWHP 168B42S	YVWHR 168B42S
		Unit B	YVWHP 144B42S	YVWHR 144B42S	YVWHP 168B42S	YVWHR 168B42S	YVWHP 168B42S	YVWHR 168B42S
		Unit C	YVWHP 144B42S	YVWHR 144B42S	YVWHP 144B42S	YVWHR 144B42S	YVWHP 168B42S	YVWHR 168B42S
	575V, 3PH, 60Hz	Unit A	YVWHP 168B52S	YVWHR 168B52S	YVWHP 168B52S	YVWHR 168B52S	YVWHP 168B52S	YVWHR 168B52S
		Unit B	YVWHP 144B52S	YVWHR 144B52S	YVWHP 168B52S	YVWHR 168B52S	YVWHP 168B52S	YVWHR 168B52S
		Unit C	YVWHP 144B52S	YVWHR 144B52S	YVWHP 144B52S	YVWHR 144B52S	YVWHP 168B52S	YVWHR 168B52S
Unit type (Heat Pump: HP, Heat Recovery: HR)			HP	HR	HP	HR	HP	HR
Nominal capacity	Cooling	Btu/h	456,000		480,000		504,000	
	Heating	Btu/h	513,000		540,000		567,000	
Performance[2] (non-ducted / ducted)	Rated cooling capacity[1]	Btu/h	436,000		460,000		480,000	
	EER	Btu/Wh	12.5 / 14.0		11.9 / 13.6		11.5 / 13.1	
	IEER	Btu/Wh	22.0 / 20.2		21.5 / 19.9		21.0 / 18.8	
	Rated heating capacity[1]	Btu/h	484,000		510,000		540,000	
	COP	W/W	4.55 / 4.60		4.40 / 4.55		4.30 / 4.50	
	SCHE	Btu/Wh	-	23.5 / 18.9	-	21.0 / 18.8	-	19.5 / 18.8
	Sound pressure[5]	dB(A)	63					
Refrigerant piping	Liquid pipe	in. [mm]	3/4 [19.05]		3/4 [19.05]		3/4 [19.05]	
	High/low pressure gas pipe	in. [mm]	1-5/8 [41.28]	1-3/8 [34.93]	1-5/8 [41.28]	1-3/8 [34.93]	1-5/8 [41.28]	1-3/8 [34.93]
	Low pressure gas pipe	in. [mm]	-	1-5/8 [41.28]	-	1-5/8 [41.28]	-	1-5/8 [41.28]
Connection ratio	Connection ratio range[4]	%	50 -130					
	Number of indoor units (recommended / maximum)	Qty.	28/64					
Water side	Inlet pipe	in. [mm]	1-1/4 - 11-1/2 NPT					
	Outlet pipe	in. [mm]	1-1/4 - 11-1/2 NPT					
	Condensation pipe	in. [mm]	1/2 NPT					
	Maximum system water pressure	psi [MPa]	285 [1.96]					
	Inlet water temperature range[3]	°F [°C]	50 -113 [10 - 45]					
	Water flow range per unit (Rated/range) (Unit A + Unit B + Unit C)	gpm [L/m]	44.1 + 36.5 + 36.5 [167 + 138 + 138] / 24 - 70 [90 - 268] + 22 - 63 [81 - 241] + 22 - 63 [81 - 241]		44.1 + 44.1 + 36.5 [167 + 167 + 138] / 24 - 70 [90 - 268] + 24 - 70 [90 - 268] + 22 - 63 [81 - 241]		44.1 + 44.1 + 44.1 [167 + 167 + 167] / 24 - 70 [90 - 268] + 24 - 70 [90 - 268] + 24 - 70 [90 - 268]	
Electrical	Minimum circuit amps, MCA (208V/230V/460V/575V) (Unit A + Unit B + Unit C)	A	41+37+37 / 37+34+34 / 22+20+20 / 18+16+16		41+41+37 / 37+37+34 / 22+22+20 / 18+18+16		41+41+41 / 37+37+37 / 22+22+22 / 18+18+18	
	Maximum overcurrent protection, MOP (208V/230V/460V/575V) (Unit A + Unit B + Unit C)	A	50+50+50 / 50+45+45 / 25+25+25 / 20+20+20		50+50+50 / 50+50+45 / 25+25+25 / 20+20+20		50+50+50 / 50+50+50 / 25+25+25 / 20+20+20	
Compressor	Compressor type		Inverter					
	Operating range	%	10 - 100					
Unit	Dimensions (H x W x D)	in. [mm]	39-3/8 x 126 x 21-5/8 [1000 x 3200 x 550]					
	Weight (208,230V/460,575V) (Unit A + Unit B + Unit C)	lb. [kg]	558+556+556 / 567+564+564 [253+252+252 / 257+256+256]		558+558+556 / 567+567+564 [253+253+252 / 257+257+256]		558+558+558 / 567+567+567 [253+253+253 / 257+257+257]	

NOTES:

1 Rating Conditions:

COOLING		HEATING	
Indoor Air Inlet Temperature:	80.6°F (27°C)DB 66.2°F (19°C)WB	Indoor Air Inlet Temperature:	68°F (20°C)DB
Entering Water Temperature:	86°F (30°C)	Entering Water Temperature:	68°F (20°C)
Piping Length:	24.6ft. (7.5m)		
Piping Lift:	0ft. (0m)		

2 Efficiency ratings are based on the AHRI 1230 test standard.
3 There are some exceptions and notes for each operation range. For details, refer to Engineering Manual.
4 For details, refer to Engineering Manual.
5 Measurement Point: 3.3ft. (1m) from the air outlet side, 3.3ft. (1m) from floor level. The operation sound is measured in an anechoic chamber. However, the actual operation sound may appear louder or with an echo because of surrounding environmental noise. Be sure to check environmental conditions before installation.

Water-source VRF heat pump and heat recovery units

208/230V, 460V and 575V 44- to 48-ton systems

Tonnage			44-ton		46-ton		48-ton	
Model #	208/230V, 3PH, 60Hz		YVWHP 528B32S	YVWHR 528B32S	YVWHP 552B32S	YVWHR 552B32S	YVWHP 576B32S	YVWHR 576B32S
	460V, 3PH, 60Hz		YVWHP 528B42S	YVWHR 528B42S	YVWHP 552B42S	YVWHR 552B42S	YVWHP 576B42S	YVWHR 576B42S
	575V, 3PH, 60Hz		YVWHP 528B52S	YVWHR 528B52S	YVWHP 552B52S	YVWHR 552B52S	YVWHP 576B52S	YVWHR 576B52S
Unit combination	208/230V, 3PH, 60Hz	Unit A	YVWHP 192B32S	YVWHR 192B32S	YVWHP 192B32S	YVWHR 192B32S	YVWHP 192B32S	YVWHR 192B32S
		Unit B	YVWHP 168B32S	YVWHR 168B32S	YVWHP 192B32S	YVWHR 192B32S	YVWHP 192B32S	YVWHR 192B32S
		Unit C	YVWHP 168B32S	YVWHR 168B32S	YVWHP 168B32S	YVWHR 168B32S	YVWHP 192B32S	YVWHR 192B32S
	460V, 3PH, 60Hz	Unit A	YVWHP 192B42S	YVWHR 192B42S	YVWHP 192B42S	YVWHR 192B42S	YVWHP 192B42S	YVWHR 192B42S
		Unit B	YVWHP 168B42S	YVWHR 168B42S	YVWHP 192B42S	YVWHR 192B42S	YVWHP 192B42S	YVWHR 192B42S
		Unit C	YVWHP 168B42S	YVWHR 168B42S	YVWHP 168B42S	YVWHR 168B42S	YVWHP 192B42S	YVWHR 192B42S
	575V, 3PH, 60Hz	Unit A	YVWHP 192B52S	YVWHR 192B52S	YVWHP 192B52S	YVWHR 192B52S	YVWHP 192B52S	YVWHR 192B52S
		Unit B	YVWHP 168B52S	YVWHR 168B52S	YVWHP 192B52S	YVWHR 192B52S	YVWHP 192B52S	YVWHR 192B52S
		Unit C	YVWHP 168B52S	YVWHR 168B52S	YVWHP 168B52S	YVWHR 168B52S	YVWHP 192B52S	YVWHR 192B52S
Unit type (Heat Pump: HP, Heat Recovery: HR)			HP	HR	HP	HR	HP	HR
Nominal capacity	Cooling	Btu/h	528,000		552,000		576,000	
	Heating	Btu/h	594,000		621,000		648,000	
Performance[2] (non-ducted / ducted)	Rated cooling capacity[1]	Btu/h	504,000		530,000		550,000	
	EER	Btu/Wh	11.0 / 12.6		10.8 / 11.8		10.35 / 11.4	
	IEER	Btu/Wh	20.5 / 18.8		20.5 / 17.2		20.5 / 16.9	
	Rated heating capacity[1]	Btu/h	564,000		590,000		614,000	
	COP	W/W	4.20 / 4.35		4.10 / 4.30		4.00 / 4.10	
	SCHE	Btu/Wh	-	18.0 / 18.5	-	17.0 / 18.3	-	15.0 / 18.1
	Sound pressure[5]	dB(A)	63.5		63.5		64	
Refrigerant piping	Liquid pipe	in. [mm]	3/4 [19.05]		3/4 [19.05]		3/4 [19.05]	
	High/low pressure gas pipe	in. [mm]	1-5/8 [41.28]	1-3/8 [34.93]	1-5/8 [41.28]	1-3/8 [34.93]	1-5/8 [41.28]	1-3/8 [34.93]
	Low pressure gas pipe	in. [mm]	-	1-5/8 [41.28]	-	1-5/8 [41.28]	-	1-5/8 [41.28]
Connection ratio	Connection ratio range[4]	%	50 -130					
	Number of indoor units (recommended / maximum)	Qty.	28 / 64					
Water side	Inlet pipe	in. [mm]	1-1/4 - 11-1/2 NPT					
	Outlet pipe	in. [mm]	1-1/4 - 11-1/2 NPT					
	Condensation pipe	in. [mm]	1/2 NPT					
	Maximum system water pressure	psi [MPa]	285 [1.96]					
	Inlet water temperature range[3]	°F [°C]	50 -113 [10 - 45]					
	Water flow range per unit (Rated/range) (Unit A + Unit B + Unit C)	gpm [L/m]	51 + 44.1 + 44.1 [193 + 167 + 167] / 27 - 79 [101 - 301] + 24 - 70 [90 - 268] + 24 - 70 [90 - 268]		51 + 51 + 44.1 [193 + 193+ 167] / 27 - 79 [101 - 301] + 27 - 79 [101 - 301] + 24 - 70 [90 - 268]		51 + 51 + 51 [193 + 193 + 193] / 27 - 79 [101 - 301] + 27 - 79 [101 - 301] + 27 - 79 [101 - 301]	
Electrical	Minimum circuit amps, MCA (208V/230V/460V/575V) (Unit A + Unit B + Unit C)	A	55+41+41 / 50+37+37 / 29+22+22 / 23+18+18		55+55+41 / 50+50+37 / 29+29+22 / 23+23+18		55+55+55 / 50+50+50 / 29+29+29 / 23+23+23	
	Maximum overcurrent protection, MOP (208V/230V/460V/575V) (Unit A + Unit B + Unit C)	A	70+50+50 / 60+50+50 / 40+25+25 / 30+20+20		70+70+50 / 60+60+50 / 40+40+25 / 30+30+20		70+70+70 / 60+60+60 / 40+40+40 / 30+30+30	
Compressor	Compressor type		Inverter					
	Operating range	%	10 - 100					
Unit	Dimensions (H x W x D)	in. [mm]	39-3/8 x 126 x 21-5/8 [1000 x 3200 x 550]					
	Weight (208,230V/460,575V) (Unit A + Unit B + Unit C)	lb. [kg]	558+558+558 / 567+567+567 [253+253+253 / 257+257+257]					

NOTES:

1 Rating Conditions:

COOLING		HEATING	
Indoor Air Inlet Temperature:	80.6°F (27°C)DB 66.2°F (19°C)WB	Indoor Air Inlet Temperature:	68°F (20°C)DB
Entering Water Temperature:	86°F (30°C)	Entering Water Temperature:	68°F (20°C)
Piping Length:	24.6ft. (7.5m)		
Piping Lift:	0ft. (0m)		

2 Efficiency ratings are based on the AHRI 1230 test standard.
3 There are some exceptions and notes for each operation range. For details, refer to Engineering Manual.
4 For details, refer to Engineering Manual.
5 Measurement Point: 3.3ft. (1m) from the air outlet side, 3.3ft. (1m) from floor level. The operation sound is measured in an anechoic chamber. However, the actual operation sound may appear louder or with an echo because of surrounding environmental noise. Be sure to check environmental conditions before installation.

Controllers and network adapters

A control option for every application

Bring your customers premium control options with YORK controllers and gateways. The wide range of options ensures an optimal solution for every customer's needs. All YORK controllers are compatible with all YORK air-source and water-source systems.

Variable refrigerant flow systems | Controllers

Overview

Project requirements	Wireless zone controller	Simplified wired zone controller	Programmable wired zone controller	Mini-central station	Large central station	Touchscreen central controller	LONWorks® adapter	VRF Smart Gateway (BACnet)®	VRF Cloud Gateway
	CIR01	CIS01	CIW01	CCM01	CCL01	CCXL02	CLW01	CBN02	CMNETS
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 recovery 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						✓	■	■	
Exposes more points							■	■	
Exposes outdoor unit points							■	■	
Capable of reading indoor and outdoor unit sensors								✓	✓
Wi-Fi-enabled							■	✓	✓
Easy integration							■	✓	✓
Easy commissioning							■	✓	✓

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

Zone controllers

Model CIW01

Programmable wired zone controller

- Standard wall controller
- Dual set point
- Controls temperature, mode, fan speed
- Seven-day schedule 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

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

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)

Simplified wired zone controller

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

Model C3STAT01

Five-wire thermostat adapter

- Enables communication from standard five-wire thermostats into VRF controls logic
- Small size for discreet installation
- Illuminated seven-segment display
- Field-configurable
- Easy-to-use desktop user interface available
- Single 24VAC power connection can power both adapter and third-party thermostat

Central controllers

Central station

Central controller large and mini systems are available.

Features

- 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 eight 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

Large: model CCL01

Mini: model CCM01

Central controllers
Compatible with the **H-LINK II**
Control up to **160** indoor units
Control up to **32** or **64** groups (model dependent)*
Connect up to **eight** stations

*See model details for specifics

CCXL02

VRF central touchscreen controller

The YORK touchscreen central controller offers an intuitive, large touch screen for easy control of 2,560 VRF indoor units and up to 2,048 VRF systems.

With remote access software (included) and energy calculation software – tenant metering (add-on). Easily control VRF systems in large, commercial properties with the YORK central touchscreen controller. And enjoy accurate, easy tenant billing feature with the optional energy calculation software (CCSE01).

Features

- Individual zone control with weekly programmable scheduling
- Basic central point on/off control of all units
- Advanced multi-zone control of large commercial projects
- Automatic cooling/heating changeover for heat recovery systems
- Single input batch shutdown of all connected units
- Multiple tenant power billing for shared condenser applications (metering hardware required)
- Graphical user interface with floor plan layout

Johnson Controls VRF Smart Gateway

Control through Building Automation Systems

The VRF Smart Gateway enables unprecedented control of YORK VRF system components through fast, simple integration into the Metasys BAS. Complete system data is available for all components in the system.

Enhanced features

- **Automatically structures and organizes data** for faster, easier and less costly integration
- **Works over ethernet** to obtain system data and make it accessible through BAS
- **Brings all BAS capabilities to VRF components** including User Interface, Global Search, schedules, reporting, and offline configuration
- **BACnet® compatible**
- **Information conforms to BAS** conventions for quick adoption
- **Wi-Fi accessibility** enables 24/7 monitoring and control of equipment from laptops, tablets and smartphones

Model CBN02

SMART EQUIPMENT Johnson Controls

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 status, alarm status

Model CLW01

Features

- 24V AC-powered
- Connect up to four LonWorks adapters (CLW01) simultaneously to the same H-LINK II segment
- Connect up to eight 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 of 200 nodes: A combination of up to 160 indoor units and a maximum of 64 outdoor units, not to exceed a total of 200

VRF Cloud Gateway

Control and integrate YORK VRF systems with smart devices and home automation systems

The new VRF Cloud Gateway by cool automation seamlessly integrates VRF systems with smart phones, tablets, or any similar wireless device as well as home automaton control systems. This simplifies monitoring and control as VRF systems can be managed through the same interface as lighting, security and other home systems. It can also be used as a stand-alone device with information accessible over the web. And, it comes with the peace of mind that it has been thoroughly tested by the team at Johnson Controls.

Model CMNETS

SMART EQUIPMENT Johnson Controls

Features

- Monitor and control equipment from a laptop, tablet or smartphone anytime, anywhere
- Manage and control indoor units through simple touchscreen display
- Install and integrate with ease (true plug-and-play device)
- Interface through RS232 (ASCII), RS485 (MODBUS RTU) or ethernet (ASCII and MODBUS IP)

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 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.

H-LINK II network systems	
Max. number of refrigerant groups / system	64
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

Flexible wiring routes

The H-LINK allows for easy installation through a simple daisy-chain configuration. Simply connect to the adjacent units or the terminal block of a centralized control system.

Service and support

We're on your team

When you purchase a YORK VRF system, you have the full support of a team of experienced professionals as well as 24/7 access to online tools. We're there to help at every stage from design to maintenance.

SERVICE AND SUPPORT

Variable refrigerant flow systems | Service and support

Selection software

HVACNavigator.com – simply get the job done

Everything you need from initial design to maintenance manuals is available to you through the HVACNavigator.com portal.

Our 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:

- **Design detailed final system drawings** including piping and wiring diagrams
- **Accurately select systems** using a System Sizing Analysis. Proprietary algorithms calculate system size using data on all included units and piping, load, and site-specific measurements to ensure your system is optimized
- **Select options and accessories** using intuitively designed features and functionality that make the design process fast, easy, and accurate
- **Output reports** as Excel and PDF files and drawings as AutoCAD, Revit and PDF files
- **Generate pricing** for equipment through our pricing system, UST, and adjust pricing to reflect the desired margin for the project
- **Generate a complete bill of materials** with itemized pricing and a complete quotation submittal package with drawings and detailed product information
- **Send the bill of materials directly to the ordering system**

Once you have ordered equipment, HVACNavigator.com is your source for all the product information you need including product documentation, technical and service manuals, troubleshooting guides, brochures, videos, technical support, contact information, and more. All information is available instantly through your smartphone or tablet simply by scanning the Quick Reference (QR) code on the product nameplate. The QR code can also be used for fast, simple warranty registration.

World-class training

Expert training for you and your staff

Our premier VRF training center offers an extensive line of classes with specialized modules and topics to ensure you have the knowledge and skills needed to effectively and efficiently deploy our VRF technology. Our classes help:

- **Salespeople** submit competitive bids and close deals
- **Engineers** easily and accurately design, select, and configure equipment
- **Installers** proficiently complete jobs on-time and on-budget
- **Service technicians** efficiently maintain, troubleshoot, and repair systems

The training center includes a dedicated VRF laboratory with multiple working systems, components, controls and integration equipment to provide hands-on experience for students. Videos and webinars supplement classroom learning on specific subjects to refresh and enhance the skills of your sales, design, installation, and service teams. With our VRF training programs, your staff will have the knowledge and confidence to compete in a growing industry.

Courses include:

- VRF System Design and Engineering
- VRF Installation and Commissioning
- VRF Service and Troubleshooting
- Controls Commissioning

For your convenience, we also provide training at regional training centers located in Chicago IL, Kansas MO, Long Island NY, New Freedom PA, Olympia WA and Montréal, Québec.

The YORK VRF training center features a training lab with multiple working systems and expect instructions.

Please visit **https://www.johnsoncontrols.com/services-andsupport/training-services/vrf-training** for the latest training course and schedules.

State-of-the-art warranty system

Our warranty registration process is the easiest in the industry. Simply complete your commissioning and start-up form, and all your equipment is automatically registered for a standard warranty.

Our system automatically captures the information needed. Once you've completed training, you are automatically upgraded to our extended warranty.

Variable refrigerant flow systems | Service and support

Advanced logistics and customer support

Integrated logistics systems

- Our ample inventory and advanced order management and logistics systems ensure you can set a project timeline, schedule labor efficiently, and meet installation deadlines
- Fast, accurate delivery from our state-of-the-art distribution center in the Memphis area – where UPS and FedEx have hubs – simplify expedited shipments when additional parts are needed. Most equipment arrives within one to three days, and all shipments arrive within five days
- When equipment arrives, it is ready for installation. Our 99% damage-free work record exceeds the industry average

Expect fast, accurate deliveries

Our warehouse is located near UPS and FedEx hubs, and our distribution center uses advanced order management and logistics systems for quick, correct parts delivery.

Most equipment arrives within one to three days, and all shipments arrive within five days.

Damage-free work record

Attractive shipping rates

Our professionals are one call away

A dedicated support center for VRF systems distinguishes our approach from others in the industry. One phone number connects you with the support you need to address any issue.

Phone: 1 (844) 873-4445 | Fax: 1 (972) 915-3860	Dial-in selections	Email addresses
Customer service	Option 1	BE-VRFCustomerService@jci-hitachi.com
Assistance with using navigatyor to order equipment, parts and accessories as well as process credits and returns.		
Technical support	Option 2	BE-VRFTechSupport@jci-hitachi.com
Support during installation, commissioning and service as well as parts look-up and troubleshooting.		
Warranty	Option 3	BE-VRFWarranty@jci-hitachi.com
Assistance with using navigator to register warranties, enter claims, and obtain extended labor warranty contracts (distribution level only).		
Application and design	Option 4	BE-VRFApplicationDesign@jci-hitachi.com
Presale assitance with equipment applications and design support as well as use of selection navigator tool.		
Training	Option 5	BE-VRFTraining@jci-hitachi.com
Support related to training course offerings and registration.		

YORK® VRF

About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers and manufacturing. With a global team of 100,000 experts in more than 150 countries and over 135 years of innovation, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, YORK®, Metasys®, Ruskin®, Titus®, Frick®, Penn®, Sabroe®, Simplex®, Ansul® and Grinnell®.

For more information, visit **www.johnsoncontrols.com** or follow us **@johnsoncontrols** on Twitter.

For more York VRF product information, visit **www.york.com.**

Industry certified

YORK® VRF systems are Intertek ETL Listed (Canada and 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 (AHRI). To view AHRI numbers or Energy Guide labels, please go to www.ahridirectory.org
Some products are Energy-Star Certified. Please see catalog for details.

Additional Information

Before purchasing this appliance, read important information about its estimated annual energy consumption, yearly operating cost, or energy efficiency rating available from your retailer.

For more details on terms, conditions, and limitations, please refer to the warranty certificate.

Contact your sales person or visit our warranty support center at BE-VRFWarranty@jci.com for specific eligibility requirements.

The power behind **your mission**

Johnson Controls