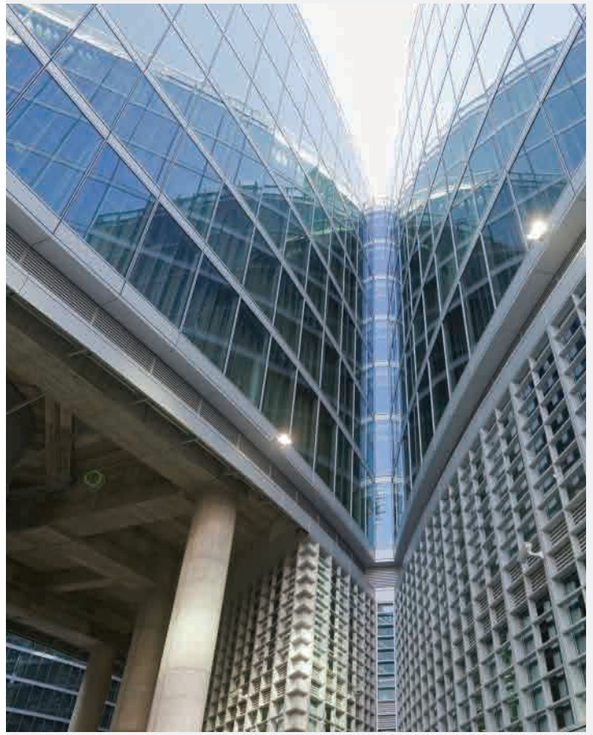
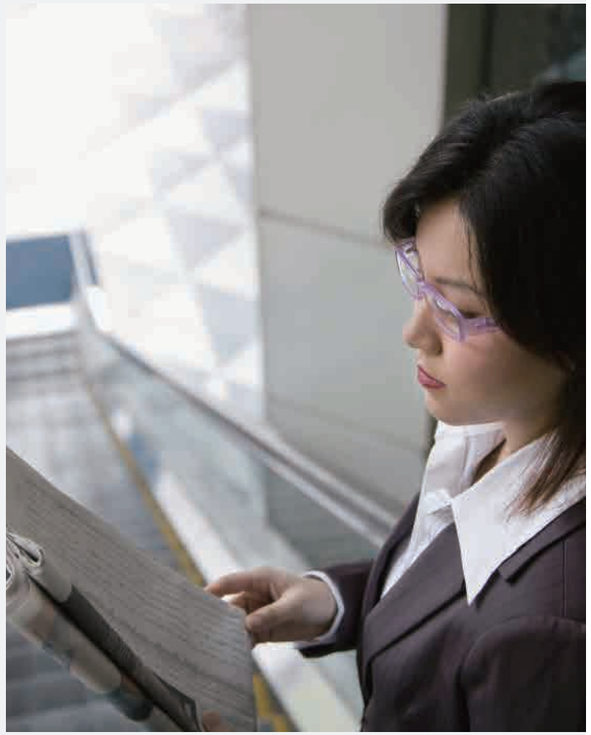
YORK®

INSTALL CONFIDENCE.





EFFICIENT VRF R-410A 60HZ HEAT PUMP

JVOH 080 to 540 VVER0AQ

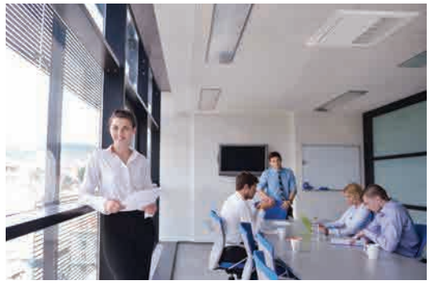
A complete range from 8hp to 54hp.

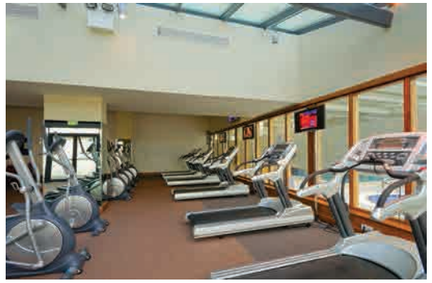
YORK®

INSTALL CONFIDENCE.

SHFCZE-MAORX-160114

YORK® Variable Refrigerant Flow System





Efficiency and comfort for your customers. New growth opportunities for your business.

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

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

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

Introducing YORK® VRF from Johnson Controls

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

The technology brings an array of advantages over conventional systems.

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

Enjoy design freedom

A variety of standard modular components let you customize and size equipment to meet specific project requirements. Because ductwork is generally needed only for ventilation, ducts can be smaller, reducing capital cost. Systems can easily be adapted as space is reconfigured. Unlike conventional HVAC systems, VRF systems allow addition of capacity to accommodate expansion simply by adding modular units (capacities 8-54 HP). There is no need to remove and replace the original unit or reconfigure ductwork.

Install with ease

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

Gain control flexibility

Users can deploy from three basic control options.

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

Choose multiple applications

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

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

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

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

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

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

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

The training center includes a dedicated VRF laboratory to provide hands-on experience with the various systems, components and controls. YORK ® VRF training programs help deliver peace of mind that your staff is prepared to support your business with the knowledge to compete in a growing industry.

Get the tools that give you an edge

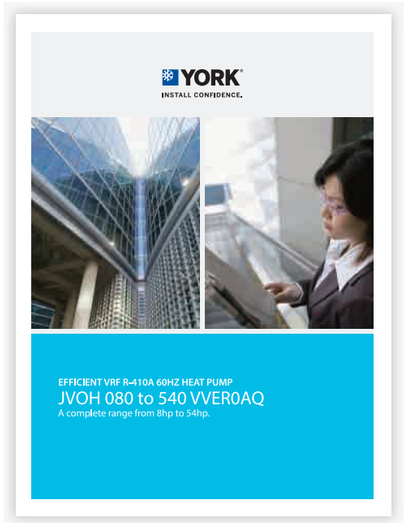
Right-size systems with intuitive selection software

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

PC-based program

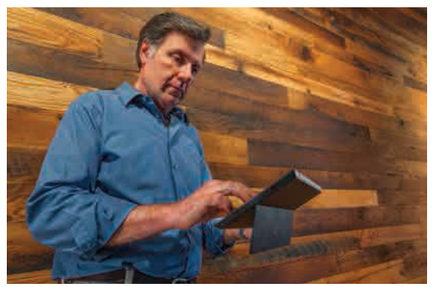
The PC-based program gives you mobility and flexibility. The software helps you:

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



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

Ample inventory and advanced order management and logistics systems can help you complete installations in a timely manner. Consistent service and predictable deliveries help you prevent delays waiting for essential components and enable you to set a project timeline and schedule labor efficiently. Fast and accurate parts delivery from our main distribution center.



Let's go to work – together

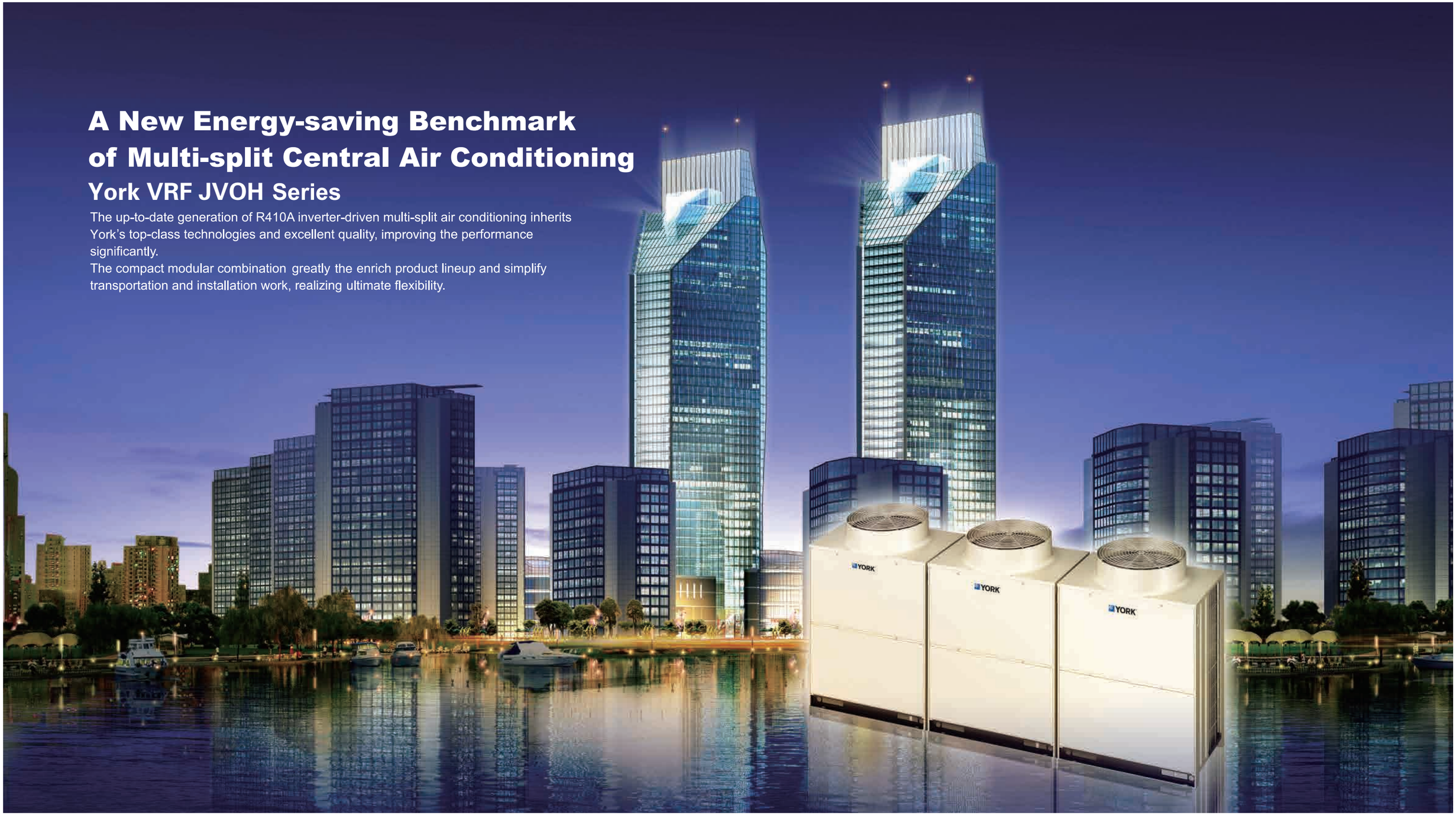
YORK® VRF systems can be configured to meet your project requirements and deliver exceptional performance. Select heat pump outdoor units with DC inverter-driven compressors offering energy savings and the ability to scale to size. Multiple ventilation options help make sure your systems introduce the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

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

A New Energy-saving Benchmark of Multi-split Central Air Conditioning

York VRF JVOH Series

The up-to-date generation of R410A inverter-driven multi-split air conditioning inherits York's top-class technologies and excellent quality, improving the performance significantly.
The compact modular combination greatly the enrich product lineup and simplify transportation and installation work, realizing ultimate flexibility.



CONTENTS

Super Energy Conservation

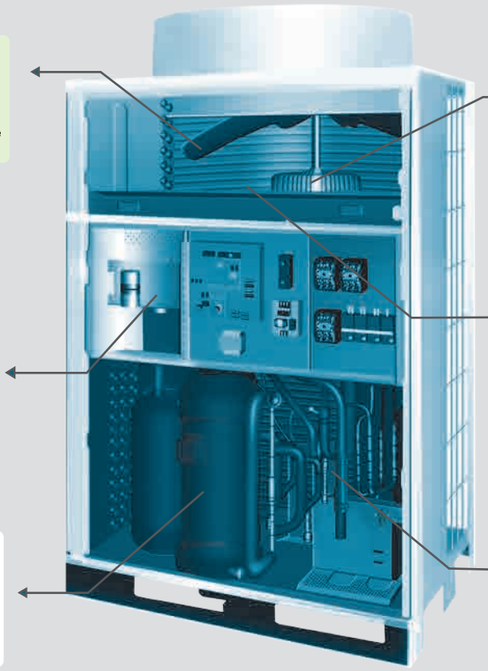
A New Energy-saving Model of Multi-split Central Air Conditioning

Cutting-edge Technological Innovation is the Cornerstone of Energy Conservation Achievement for York

Energy conservation in central air conditioning can be carried out through the following two ways.

Management Energy Saving: On the premise of comfort in buildings, the objective of energy saving can be reached by constraints on behavior or proper operation adjustment of equipment.

Technological Energy Saving: Selecting the high efficient Central Air Conditioning with leading technology to save energy. York makes good use of innovation and optimization of every key technology to make the latest York VRF JVOH series a master of energy-saving.



New Efficient Propeller Fan

- Compact structure
- Better dynamic balancing
- High efficient and low noise

DC Fan Motor

- Efficient DC drive
- Smooth operation and low noise

DC Inverter（DIP-IPM）

- High integrated circuit
- High performance and high efficiency
- High–precision control

High-performance Heat Exchanger

- Patented female screw thread copper pipe, high heat transfer coefficient
- Exclusive new Step Fin, large heat exchange area

Large Capacity DC Inverter-driven Compressor

- Patented compressor technology
- Stable, reliable and efficient

Super-cooling Refrigerant Cycle

Two–stage super–cooling technique and efficient recooling heat exchanger help increase the efficiency and improve the cooling capacity.

York VRF System Adopts Hitachi High Efficiency Scroll Compressor, Which Leads Industry Trends.

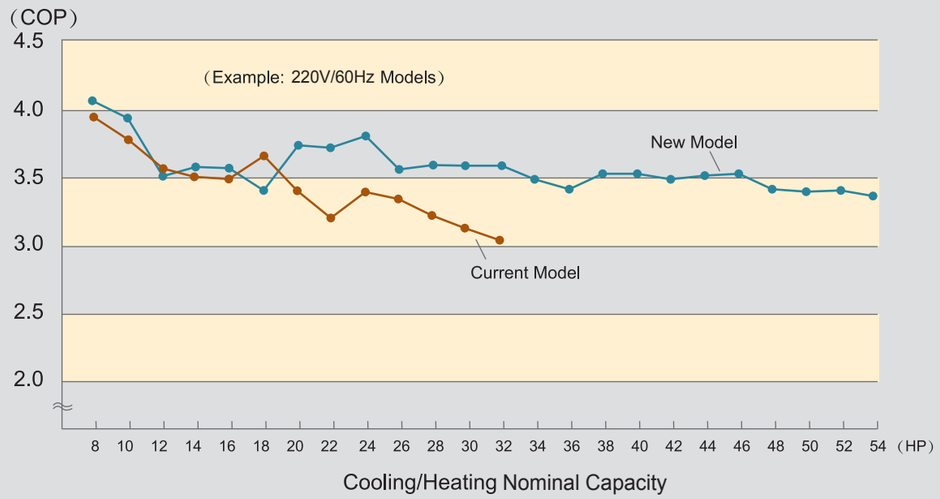
In 1983, Hitachi invented the first air conditioning scroll compressor in the world and owned the patent. Nearly 30 years' professional experience in development and manufacturing of scroll compressor ensures more advanced technology, higher quality and stronger reliability.

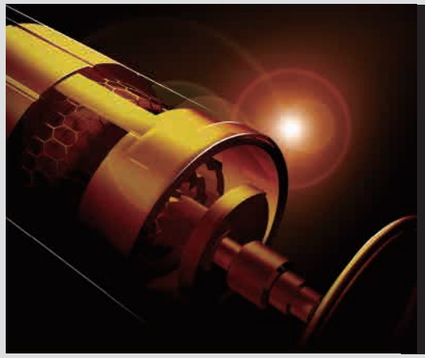
In 2003, Hitachi promoted the first high-pressure chamber scroll compressor in the industry which has the function of interior oil separating. At the same time, considering the high pressure characteristics of R410A refrigerant, asymmetric scroll disc was developed and bearing structure was strengthened which improved efficiency and reliability of the compressor.

In 2008, we applied the cutting-edge large capacity scroll compressor to Central Air Conditioning system.

High Efficiency and Energy Saving

Refrigerant cycle and control have improved for energy saving.





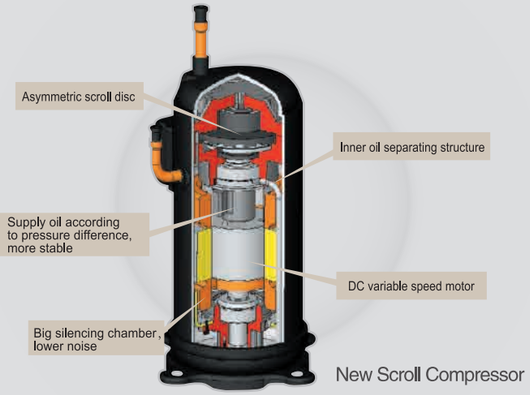
Core Technologies

The Source Power of Continuous Innovation

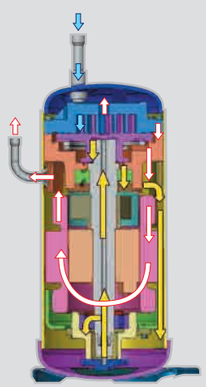
The Patented High Efficiency Scroll Compressor

The First High-pressure Chamber Scroll Compressor with a Function of Interior Oil Separating.

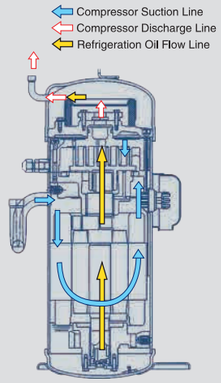
The large capacity high-pressure chamber scroll compressor adopts an interior oil separating section, maintains most of lubricating oil in compressor by the use of the interior oil mist separator and oil-returning pipe design. Only much less oil is discharged from compressor along with refrigerant, which avoids cooling capacity decrease due to redundant oil retention in refrigeration cycle, further improves efficiency. Adoption of anti-overcompression technique effectively prevents power consumption increase arisen from overhigh condensing pressure, realizing efficient and stable operation.



New Scroll Compressor



High Pressure Chamber Compressor

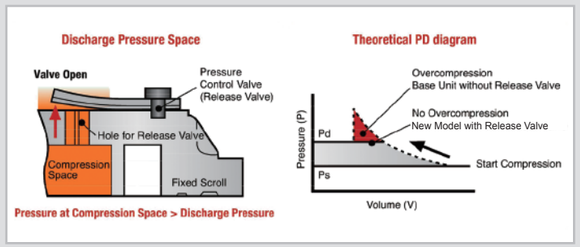


Low Pressure Chamber Compressor

Anti-overcompression Technique

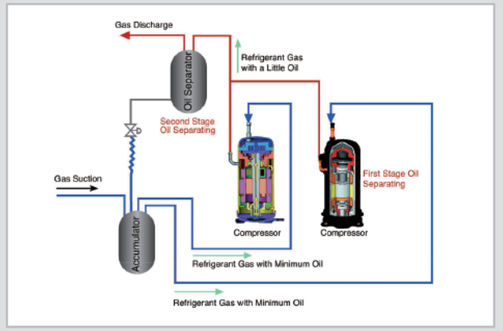
High pressure chamber scroll compressor adopts Release Valve Technique, which effectively prevents the overcompression when compressor is in partial load operation and drastically promotes the intermediate pressure performance.

- Orbiting Scroll Lifting Force Optimization is improved
- Leakage Loss Reduction
- Improved Intermediate Pressure Performance



The Originated 2-Stage Oil Separating Technique Improves Reliability of System

York VRF Front Flow Series system adopts Hitachi proprietary compressor which has high efficient function on oil separating to conduct the first stage oil separating.
Meanwhile, oil separator is adopted as the second stage oil separating. Therefore the system can operate safely and reliably.

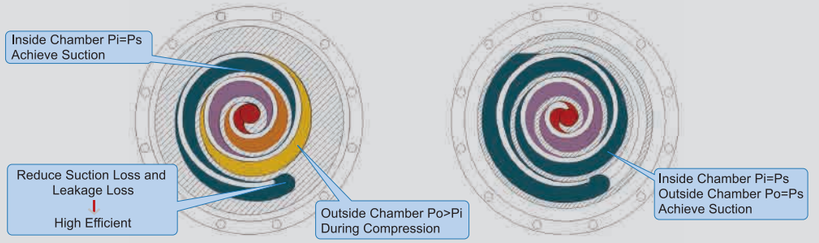


Exclusive Asymmetric Scroll Technology

The asymmetric scroll structure of Hitachi compressor effectively helps reduce the refrigerant gas leakage loss in the process of suction and compression, enhancing operating efficiency and reliability.

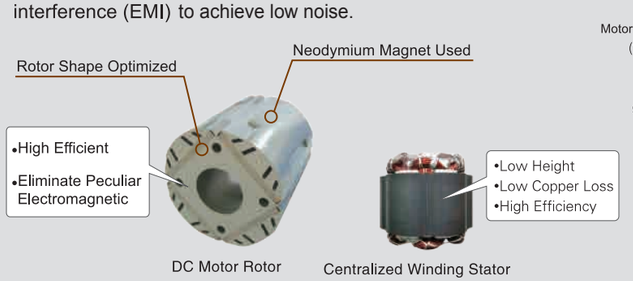
Asymmetric scroll: the time difference between the suction of outside chamber and inside chamber is 180°; The pressures of outside chamber and inside chamber are different. The pressure distribution in compressing chambers are asymmetric.

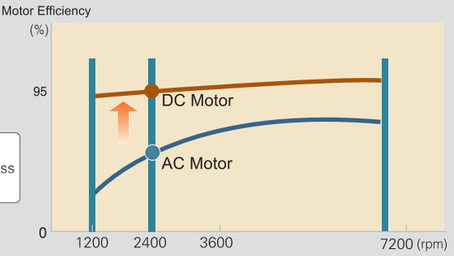
Symmetric scroll: the outside chamber and inside chamber end gas suction at the same time, the pressures of outside chamber and inside chamber are equal. The pressure distribution in compressing chamber are symmetric.



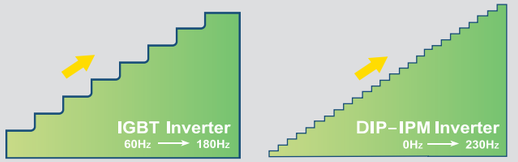
DC Inverter-driven Compressor

By the use of DC motor, the performance is improved at around 20~40Hz where the operation time of the inverter compressor is the longest. Meanwhile, the rotor of compressor's motor is divided into two parts to suppress electromagnetic interference (EMI) to achieve low noise.





The Precise Inverter Technique



The operating speed of compressor DC motor can be adjusted freely with system capacity variability in 1Hz increment. Integrated with auto-adaptive control technique, the capacity output can be adjusted automatically according to actual air conditioning load to achieve a smoother curve of temperature fluctuation to satisfy higher coziness requirements.

Oil-equalization Control Technology Between Outdoor Units

Synthetic application of scroll compressor with internal oil separating function, efficient external oil separator, accumulator, and intelligent oil level control technology regulates the oil level within the proper range, ensuring oil balance between outdoor units, and guarantees system stability and reliability.

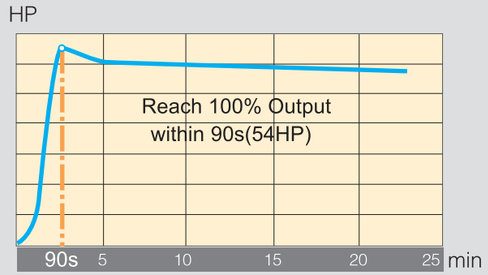
Rotational Operation to Distribute Load of Outdoor Units

Equalizing operation time of each outdoor unit leads to compressors load reduction. The compressor rotation operation effectively spreads the operation time of each compressor, extending the unit life.

Intelligent Defrosting Enables More Effective Heating

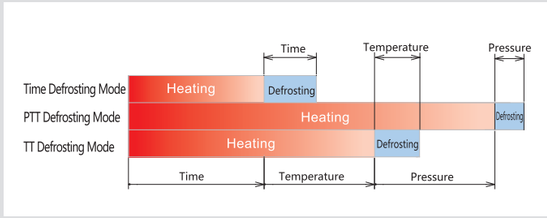
Rapid Heating Start-up

Combining the soft start of DC inverter compressor and rapid start of fixed speed compressor, the system can achieve 100% heating capacity output instantly and quickly meet the air-conditioning demand.



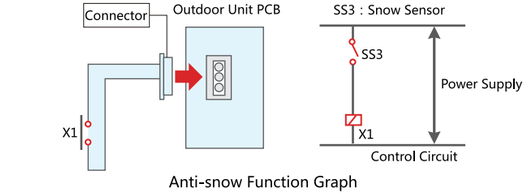
Pressure Defrosting Mode

York VRF JVOH series adopts pressure defrosting mode (PTT defrosting mode), accordingly frosting doesn't occur frequently and the short defrosting time ensures heating effect in winter.



Anti-snow Function

In the event of bad weather like snowstorm, even if outdoor unit is not operating, snow sensor on outdoor PCB can still be shorted because of natural snowflake, then the outdoor fan motor starts rotating at full speed to prevent outdoor unit from being covered by snow. When air conditioning starts up, the fan motor will turn to normal speed.

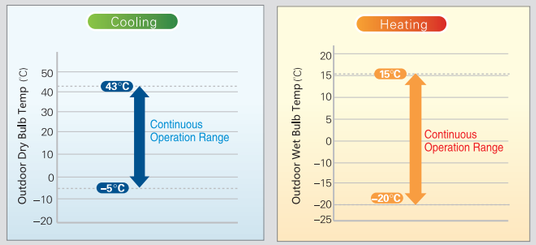


Anti-snow Function Graph

*This Function Needs Optional Accessory

Wide Ambient Range

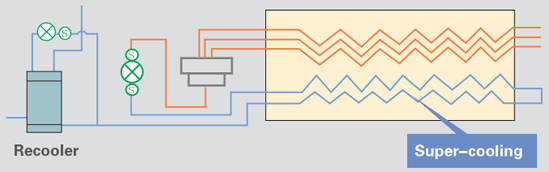
York VRF JVOH can handle a wide range of outside air condition, thus extending the flexibility of installation space and climatic environment.



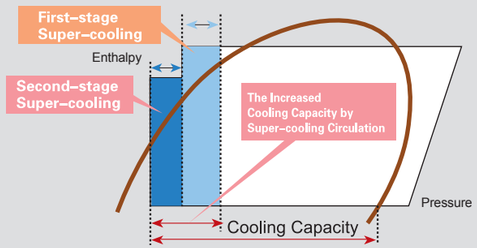
Two-stage Super-cooling Circulation Technique Improves Cooling Capacity and Total Piping Length

A sub-cooling section in the heat exchanger of outdoor unit is designed to realize the first-stage super-cooling. Furthermore, a high efficient recooler is applied to achieve the second-stage sub-cooling. The total undercooling can reach up to 27 degrees (taking 14 HP as an example).

Two-stage Super-cooling Cyclic Graph



Two-stage Super-cooling Pressure-enthalpy Graph

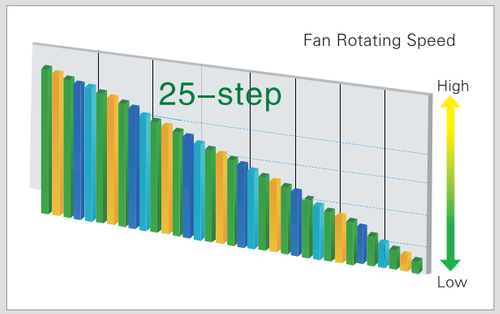


- Two–stage super–cooling circulation enhances cooling capacity
- Pressure loss of refrigerant flowing in pipe is reduced
- Improved undercooling contributes to stable operation of EEV
- Improved undercooling allows extension of total piping length

Outdoor Heat Exchange Technique Leads to Great Improvement of Heat Exchange Efficiency

25-step Fan Speed Control

DC variable-speed motor is installed in outdoor unit, which leads to input power reduction and efficiency promotion. The outdoor fan speed can be adjusted by 25 steps.



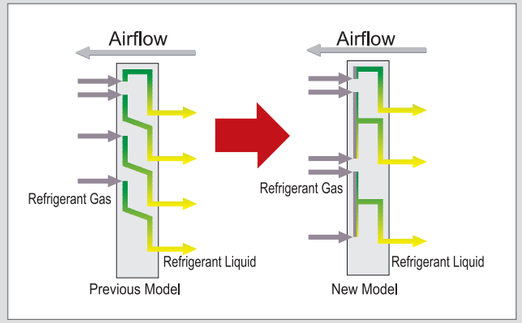
- The stability of discharge pressure and suction pressure of compressor is assured
- The stability of dynamic flow (capacity) allocation of indoor unit is assured
- Quick response of control system is improved, accordingly the system stability, durability and reliability are assured

New Efficient Heat Exchanger

New efficient heat exchanger adopts Φ7.0 female screw thread copper pipes with high thermal conductivity and new Step Fin, which leads to air flow resistance reduction, even and full heat exchange and heat transfer improvement. Furthermore, the amount of frost on heat exchanger will decrease in winter, which improves heating effect.

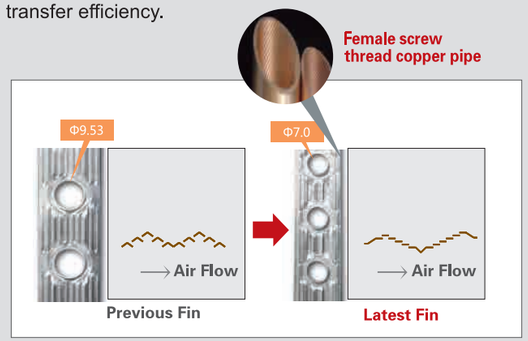
"2 in 1" Refrigerant Circuit

The specially designed "2 in 1" refrigerant flow optimizes the efficiency of heat exchanger.

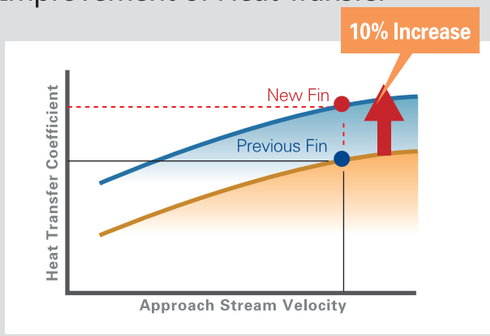


Newly Developed Fin with Efficient Heat Transfer

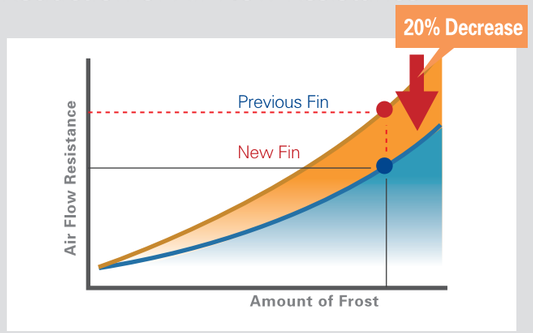
New fin and copper pipe contribute to promote heat transfer efficiency.



Improvement of Heat Transfer



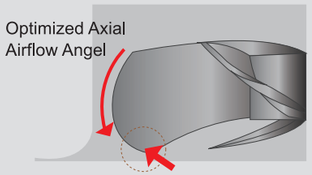
Reduction of Air Flow Resistance



New Efficient Axial Fan

The newly developed efficient axial fan with new-shaped blade helps decrease turbulence around. It is made of special material which has an obvious effect to absorb vibrating noise and minimizes the "Buzz" dramatically.

New Blade

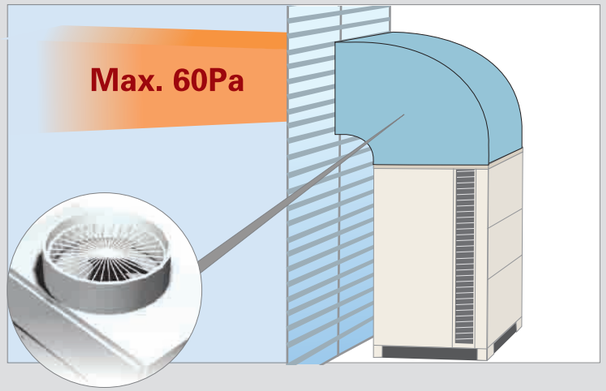


Optimized Radial Airflow Angel

Wide Range of External Static Pressure of Outdoor Units

High efficient axial fan is designed with computer fluid analysis, finite element method and aerodynamic simulation analysis. Also the inlet and outlet angle and structure are optimized to lead to much higher external static pressure allowance and sound air circulation.

- **Application of efficient fan lowers motor power consumption**
- **External static pressure: 60Pa**



Highest Level in Noise Reduction

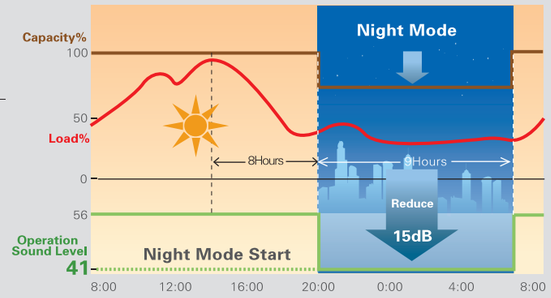
Adoption of Hitachi High Pressure Chamber Scroll Compressor
Sophisticated manufacturing technology enables minimum vibration and low noise level.

Adoption of DIP-IPM Inverter
IGBT+Auto-protection, silencer and electronic interference filter are applied to lower noise.

Noise Deadening of Fan Motor
The material of fan motor is cast aluminum. The motor bracket is of non-resonant hanger structure, which ensures stable motor performance, lowers vibrating noise.

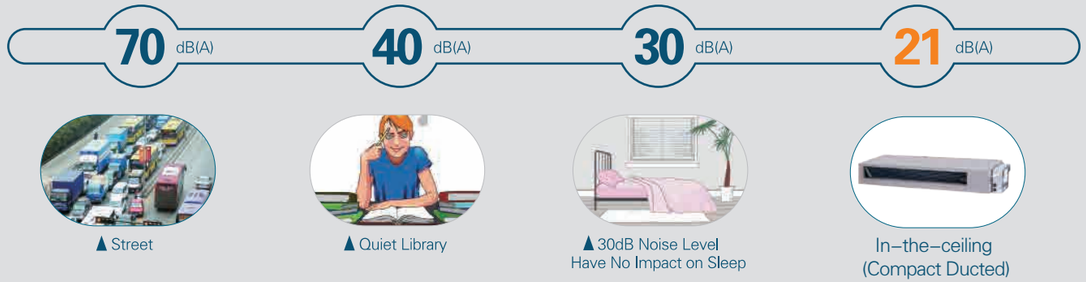
Silent Mode at Night

The outdoor unit has a special function of night-shift setting, which reduces the noise level by max.15 dB (8HP) when in full-load operation.



Indoor Unit Noise Control

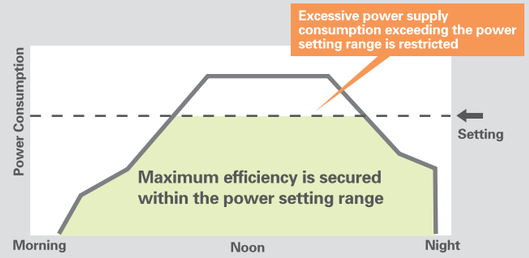
To suit with variable applications,York products realized noise reduction of indoor units via various aspects of fan motor, fan blade and air duct layout, which provides customers with the quietest air conditioned environment.



Intelligent Demand Control

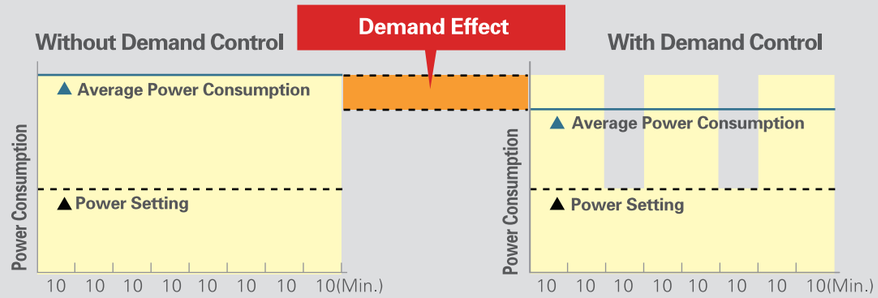
Self-demand Control

A newly developed self-demand function has largely improved energy-saving effect. Since the current is self-detected and demand control performs automatically, no signal wiring work is required. Conventional demand control using demand signals is also available, and you can select various operations as required.



Wave Mode

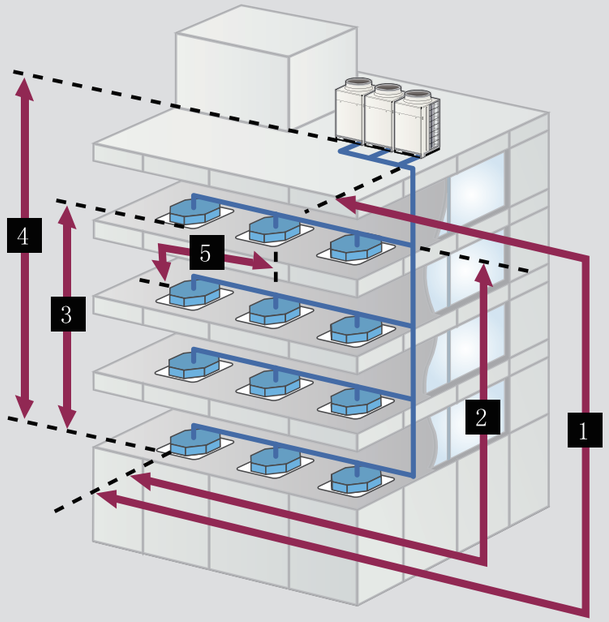
Wave mode is designed to switch demand control between ON and OFF alternatively at time intervals of 10 or 20 minutes. The room temperature is maintained at a comfortable level with energy saving.



Design and Installation

System Configuration Suitable for Design and Installation

More Flexible Refrigerant Piping Work



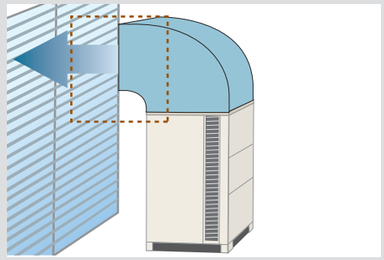
	Previous Model	New Model (JVOH)
Total maximum piping length	300m	1,000m
Max.piping length	150m	165m
Between first branch and indoor unit	40m	90m
Max.piping length after branch	30m	40m

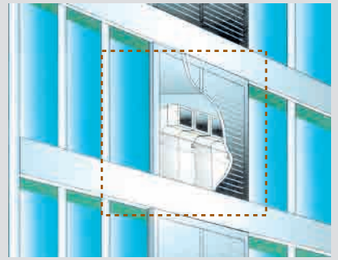
1. Max.piping length:165m*1
2. Between first branch and indoor unit:90m or less
3. Height difference between highest and lowest indoor units:15m or less
4. Height difference between outdoor and indoor units:50m*2
5. Max.length after branch:40m

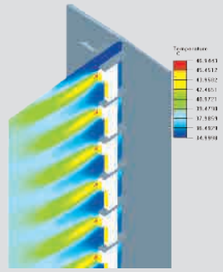
*1: For 100m or more, the pipe diameter will be one size larger.
*2: In case the outdoor unit is installed at a higher level than indoor units. If the outdoor unit is installed lower than indoor units, the maximum height difference is 40m.

Layered Installation for Highrise Building

The use of exhaust duct allows layered installation of outdoor units. Outdoor fan motor can provide a higher external static pressure and a long distance air supply, which prevents air return from short-cut in an effective way, then ensures a sound ventilation and heat transfer.


Exhaust Duct Installation


Layered Installation


Air Distribution

Connectable to 64 Indoor Units Max.

The number of connectable indoor units has been increased to 64 maximum. Thus, the system can be used in buildings where there are many indoor units to be connected.

Connection Capacity: 50 to 130%

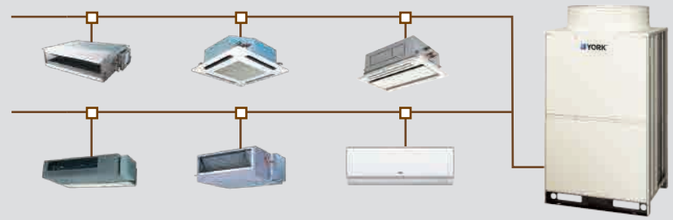
HP		8	10	12	14	16	18	20	22	24	26	28	30
Max. Number of Connectable Indoor Units	New JVOH Series	13	16	19	23	26	26	33	36	40	43	47	50

HP		32	34	36	38	40	42	44	46	48	50	52	54
Max. Number of Connectable Indoor Units	New JVOH Series	53	56	59	64	64	64	64	64	64	64	64	64

NOTES
* : For a system in which all indoor units are operated simultaneously, the max. total capacity will be 100%. Determine the number of Indoor Units carefully so that a problem such as decreased outlet air temperature will not occur. Refer to Technical Catalog for more details.

Various Model Types Easily Match Different Spatial Layout

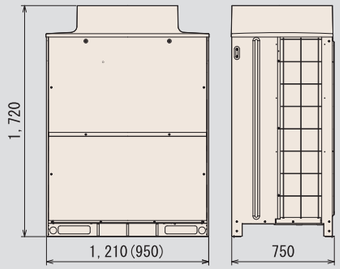
Wide capacity range of outdoor units enables free model combination relating to the actual condition of building. There are **76** models in **9** types of indoor units for selection. Designer can choose appropriate type and capacity of indoor units according to interior decoration and functions.



Compact and Lightweight Design, Space Saving

Ease and flexibility of installation are further enhanced due to the outdoor unit's lightweight and compact design.

A elevator can be used to uplift the base unit (Max.18HP) separately.



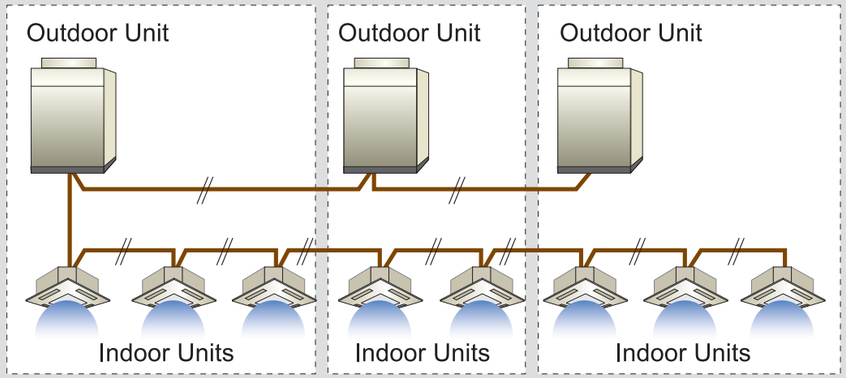
Model Outer Dimension

Simple and Convenient Wiring Work

Communication between multiple outdoor units and indoor units is via H-LINK II system, Each H-LINK II can support up to **64** outdoor units and **160** indoor units.

Non-polarity Twisted-pair Wire

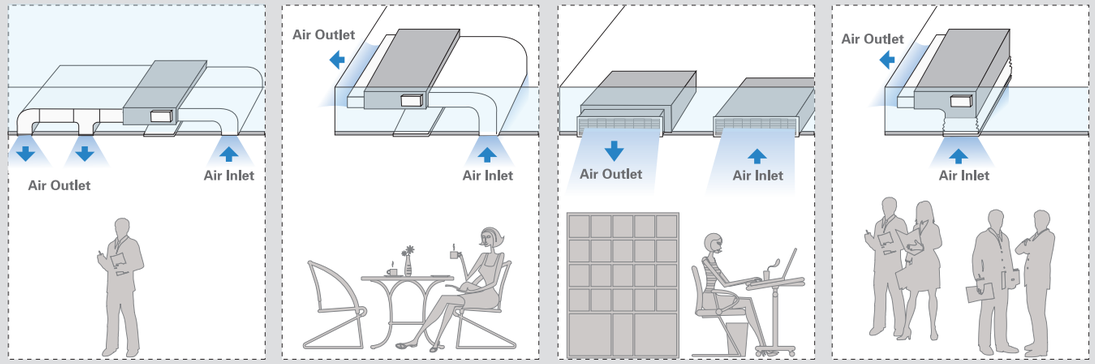
Transmission cable adopts non–polarity twisted–pair wire which can avoid the polarity mismatching between anode and cathode.



One Refrigerant Cycle

Flexible Ways of Air Supply and Air Return

User and designer can select from different ways of duct layout to suit different construction structure and interior decoration, which helps to meet various personalized customer requirements.



❶Ceiling Supply Ceiling Return ❷Side Supply Ceiling Return ❸Side Supply Side Return ❹Side Supply Bottom Return

Humanized DIP Setting

A humanized DIP adjustment switch is specially designed for indoor units of capacity less than 3HP When indoor load increases or decreases, the DIP switch can be adjusted in 0.25HP increments to match with load fluctuation and benefit users greatly.

NO.	HP	Indoor Unit Type						DIP Switch Setting		
		JTDL(M)	JTDS(N)	JTKF	JTHW	JTFE(C)	JTKT	Decreased Capacity	Standard Capacity	Increased Capacity
1	0.8 ← 1.0	●	●					ON OFF 1 2 3 4	ON OFF 1 2 3 4	
2	1.0 → 1.3	●	●	●	●	●	●		ON OFF 1 2 3 4	ON OFF 1 2 3 4
3	1.3 ← 1.5	●	●	●	●	●	●	ON OFF 1 2 3 4	ON OFF 1 2 3 4	
4	1.5 → 1.8	●	●	●	●		●		ON OFF 1 2 3 4	ON OFF 1 2 3 4
5	1.8 ← 2.0		●		●	●	●	ON OFF 1 2 3 4	ON OFF 1 2 3 4	
6	2.3 ← 2.5		●			●	●	ON OFF 1 2 3 4	ON OFF 1 2 3 4	
7	2.5 → 2.8						●		ON OFF 1 2 3 4	ON OFF 1 2 3 4

Intelligent Control

Humanized System and Convenient Operation

Building Management System

Compatible to multiple communication protocol of Lonworks, BACnet, etc. Connectible to BMS or Smart Home System via JLAA101EWS, JBAA101EWS all of which can connect to Max. 64 indoor units.

- **Real–time operation status monitoring for inquiry**
- **Operation order from monitoring center**

LonWorks JLAA101EWS

JLAA101EWS (for LONWORKS®)

By using the JLAA101EWSadapter for LONWORKS® to connect air conditioners to the total building control system, air conditioners can be centrally controlled.

You can select the number of controls, monitor, and what to control in the indoor unit from 4 choices (Standard, Option A and Option B and Option C) as needed.

Connection Method To Upper System	• LonTalk Protocol SNVT(Standard Network Variable Type) FTT-10A Free Topology

■ JLAA101EWS (Standard)

Number of Connection	64 Remote Controller Group		
Control	Run/Stop Simultaneous Run/Stop Operation Mode setting Temperature setting	Monitor	Run/Stop status & malfunction Operation Mode setting Temperature setting Thermo status

■ JLAA101EWS (Option A)

Number of Connectable RCG	64 Remote Controller Group		
Control	Run/Stop Simultaneous Run/Stop Operation Mode setting Temperature setting Fan Speed setting RC permitted/prohibited (all items)	Monitor	Run/Stop status & malfunction Indoor unit Inlet Temperature/ RC Thermo Temperature

■ JLAA101EWS (Option B)

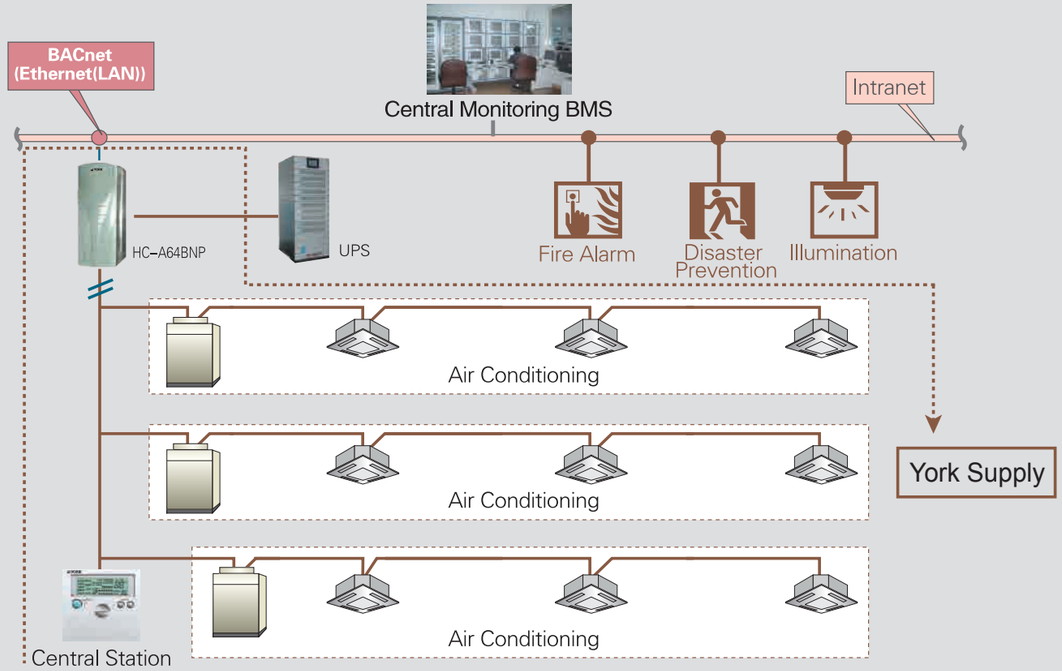
Number of Connectable RCG	32 Remote Controller Group		
Control	Run/Stop Simultaneous Run/Stop Operation Mode setting Temperature setting Fan Speed setting Louver setting RC permitted/prohibited (all items) Temperature Mode Switch	Monitor	Run/Stop status & malfunction Operation Mode setting Temperature setting Fan Speed setting Louver setting Alarm Code Indoor unit Inlet Temperature/RC Thermo Temperature Indoor unit Outlet Temperature Outdoor Temperature

■ JLAA101EWS (Option C)

Number of Connectable RCG	16 Remote Controller Group		
Control	Run/Stop Simultaneous Run/Stop Operation Mode setting Temperature setting Fan Speed setting Louver setting RC permitted/prohibited (all items) RC permitted/prohibited (Run/Stop, Operation Mode setting, Temperature setting) Filter Sign Reset Outdoor unit capacity control Outdoor unit Operating Sound Reduction control Temperature Mode Switch Outdoor unit control mode	Monitor	Run/Stop status Operation Mode setting Temperature setting Fan Speed setting Louver setting Thermo status Alarm Code Indoor unit Inlet Temperature/ RC Thermo Temperature Indoor unit Outlet Temperature Outdoor Temperature RC permitted/prohibited (all items) RC permitted/prohibited (Run/Stop, Operation Mode setting, Temperature setting) Filter Sign

BACnet JBAA101EWS

- **Running–state monitoring / On–off setting**
- **Operating mode setting**
- **Temperature setting and monitoring**
- **Airflow setting and monitoring**
- **Alarm monitoring and code display**
- **Communication failure display**
- **Wireless controller permission/prohibition**
- **Indoor temp. monitoring**
- **Filter cleaning prompting**



Central Station

Central Station mini

JCMA101EWS（AC 100V~240V）
CCM01（24V）

120 mm

140mm

Most compact in our touch panel centralized controller.
Its down-to-detail control functionalities, such as Weekly Scheduling, Accumulated Work Hours, etc., help you save energy.
Up to 32 remote-controlled groups and up to 160 indoor units can be connected to the single air-conditioning system.

■ Specification for Management Computer

Communication Unit		Units of Adopting for H-LINKII			
Communication Line		Non-Polar 2-Wire			
Communication Method		Half-Duplex Communication			
Synchro System		Asynchronous (start-stop synchronous communication)			
Communication Speed		9,600bps			
Wiring Length		1,000m (Total Length)			
Connecting Unit Number*		Outdoor Unit	Indoor Unit	Central Controller	Total Unit Number
	H-LINK II	64	160	8	200
	H-LINK	16	128	8	145

* : Connecting unit quantity indicates the maximum unit numbers which is possible to connect in the same H-LINK (Control Wiring).

■ Functions

Monitor Function	• Run/Stop/Abnormality • Operation Mode • Setting Temperature • Setting Fan Speed • Setting Louver • RCS Operation Prohibited Setting • Filter Sign • Alarm Code • Accumulated Operating Time
Control Function	• Run/Stop* • Operation Mode • Temperature Setting • Fan Speed • Louver • RCS Operation Prohibited • Filter Sign Reset

* : "All Groups Run/Stop" command signal exception function for selected groups is available by "Exception of Run/Stop Ope." function.

Central Station EZ

JCTA121EWS（AC 100V~240V）
CCL01（24V）

170 mm

250mm

Eazy control with 8.5 inch color touch panel
Its down-to-detail control functionalities, such as Weekly Scheduling, Accumulated Work Hours, etc., help you save energy.
Up to 64 remote-controlled groups and up to 160 indoor units can be connected to the single air-conditioning system.

■ Specification for Management Computer

Communication Unit		Units of Adopting for H-LINKII			
Communication Line		Non-Polar 2-Wire			
Communication Method		Half-Duplex Communication			
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groups is available by "Exception of Run/Stop Ope." function.

Various Controllers

Remote Control Switch
JCWB10NEWS
Compatible with the H-LINK II

- The newly-adopted LED-backlit LCD provides enhanced legibility. Large, clear character display is realized by Full Dot Matrix LCD.
- The newly-adopted directional key provides optimized operation. The manual operation is facilitated by reducing number of switch buttons from 13 to 9.
- "Schedule Timer" provides the timer operations for "Run/Stop" and "Temperature Setting". The weekly management is available by using this function. In addition "Holiday Setting" and "Schedule ON/OFF"setting are available.
- 4 type of menus are offered for flexible use as follows:
  Menu: Contains "Schedule", "Elevating Grill", etc. for users.
  Help Menu: Contains information provided by this remote control switch for users such as "About Indication", "Contact Information", etc.
  Test Run Menu: This menu provides the functions installation of this remote control switch.
  Check Menu: This menu provides the functions for service and maintain

Remote Control Switch
JCWA10NEWQ
Compatible with the H-LINK II

- The JCWA11NEWQ has a design that matches the interior.
- The new large LCD display permits users to see the operating conditions and settings.
- The timer can be set at half-hour intervals up to 72 hours.
- All the functions can be selected by remote control switches.
- The JCWA11NEWQ 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.
- Equipped with energy-saving functions such as a preset temperature range limiting function for preventing excessive cooling/heating and a preset temperature automatic reset function, as well as an operation locking mechanism and the capability to prevent users from forgetting to turn off the system.
  (Function selection setting is required)

Wireless Remote Control Switch
JCRA10NEWQ
Compatible with the H-LINK II

- One-touch handy operation, no wiring work required.
- Two or more units can be operated simultaneously by remote control.
  * Receiver kit is required.

Half-size Remote Control Switch
JCSA10NEWS
Compatible with the H-LINK II

- The main function of this easy-to-use remote control system is temperature setting.
- Operation modes can be switched over (when function selection setting is made).
- Suitable for facilities used by various people, such as hotels.
- "2 remote control" or "group control" (up to 16 max.) can be used.
- If a problem occurs, an alarm code immediately shows the details of the problem.

Centralized ON/OFF Controller
JCOA111EWS
Compatible with the H-LINK II
Up to 160 indoor units
Up to 16 remote control groups

- Only performs operation/stop control per remote control group.
- By connecting to the H-LINK, up to 16 remote control groups and 160 indoor units can be controlled.
  Up to 8 units can be connected to the H-LINK.
- An external input terminal is provided as standard. External signals enable the following functions:
  central operation/stop, emergency stop, central operation output, central alarm output
- Can be used in combination with the Central Station.

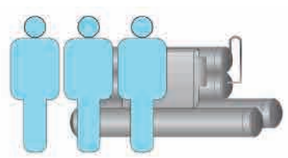
* Make sure to use it with a remote control switch. Indoor units cannot be used without a remote control switch.
* There are restrictions on remote group registration. Please contact our sales staff for more information.

Maintenance

Comprehensive Maintenance and Service

Intelligent Operation

YOUR VRF JVOH series can be operated intelligently with no requirement for special operating room, thus the system can be controlled with high flexibility and convenience.



Conventional air conditioning system requires special staff caring for maintenance

York R410A air conditioning system operates intelligently

Self-diagnosis and Intelligent Operation Inspection

Trough remote controller or 7-segment LED displays on outdoor units, the self-diagnosing error code and information can be easily achieved. System can be operated, managed and maintained conveniently by monitoring the system operating status remotely.

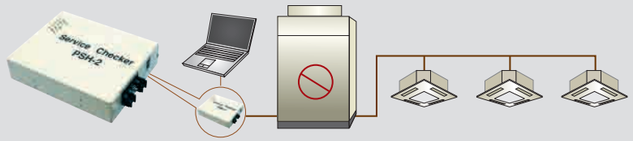
Remote Control Switch

7-Segment Display

Alarm Code

Code No.	Category	Content of Abnormallty	Leading Cause
01	Indoor Unit	Tripping of protection device	Failure of fan motor, drain discharge PCB, relay
02	Outdoor Unit	Tripping of protection device	Activation of PSH
03	Transmission	Abnormality between indoor and outdoor(or indoor)	Incorrect wiring,failure ofPCB, tripping of fuse
04	Inverter	Inverter trip of outdoor unit	Failure in transmission of PCB for inverter
05	Transmission	Abnormality of power source wiring	Reverse phase incorrect wiring
06	Voltage Drop	Voltage drop in outdoor unit excessively low or high voltage to outdoor unit	Voltage drop, incorrect wiring, tripping of fuse

Service Checker is designed to quickly inspect the units operating status. Problems can be detected easily and resolved quickly.



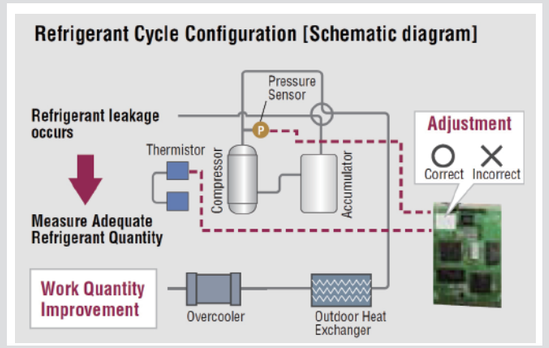
Automatic Simple Judgement System for Refrigerant Amount

By using this automatic judgment function, the sufficiency of refrigerant amount can be checked in one refrigerant cycle.

Factors for judgement

The appropriate refrigerant amount is calculated based upon the following data:

- Refrigerant Cycle Temperature
- Refrigerant Saturation Temperature
- Outdoor Unit Expansion Valve Data
- Indoor Unit Data



Double Backup Operation Function

The Backup Operation Function prevents the system from a complete stop when outdoor unit failure occurs.

1.If one outdoor unit fails, the other outdoor unit(s) can keep running if no oil contamination occurs.

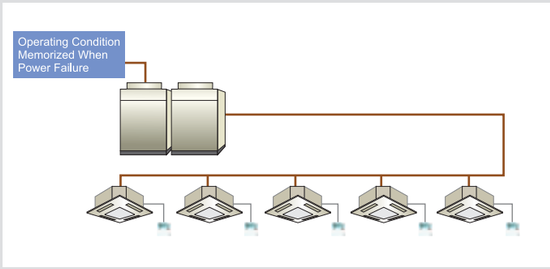
2.If one compressor fails, the other compressor(s) can keep running if no oil contamination occurs.

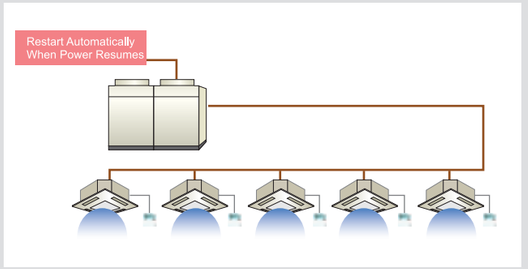
Emergency Operation

Emergency Operation

Auto-restart Function

The operating data can be recorded automatically in case of accidental power failure. The system auto-restarts and recovers to the former operation mode intelligently.



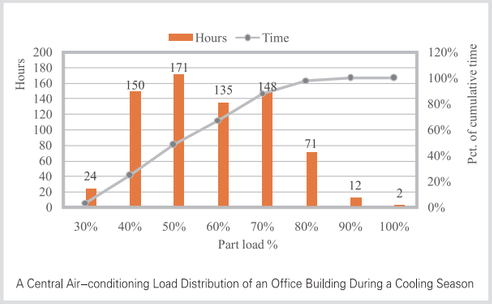


Comfortable, Healthy and Low Carbon

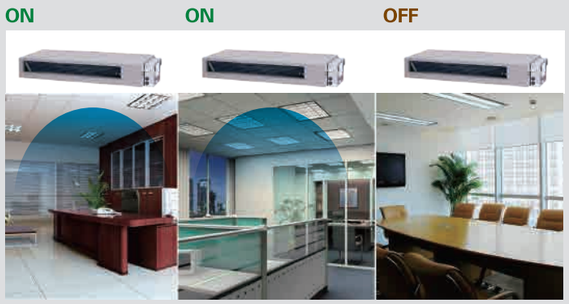
Ultimate User Experience

Focus on Energy-saving, High Efficient Part-load Operation

York VRF JVOH realizes energy saving by part-load working operation mode in case not all indoor units are under running operation in an office building.the system auto-restarts and recovers to the former operation mode.



A Central Air-conditioning Load Distribution of an Office Building During a Cooling Season

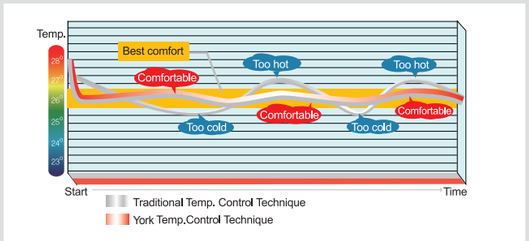


This graph shows that the air-conditioning system is under operation of part load of 40%~ 70% during the majority of running hours. Therefore, energy saving under part-load operation is significant.

Focus on Comfort, Harmony Between People and Air

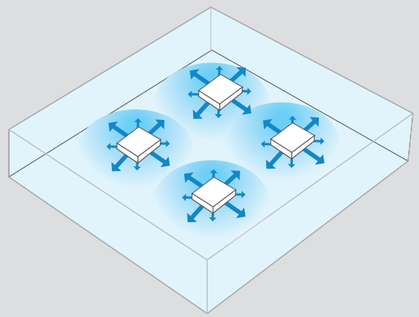
Particular Outlet Air Temperature Sensor Designed for Temperature Control

Compared with temperature control of conventional indoor air conditioning system, JVOH series adopt an outlet air temperature sensor to adjust refrigerant flow by controlling high-precision EEV and to maintain the room temperature within 0.5℃ of setting temperature, satisfying sensitive users' requirements.



4-Way Circulating Airflow Causes Temperature Uniformity

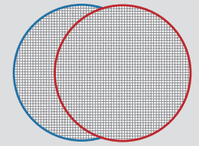
York 4-way cassette type distributes the airflow to every corner of the room by in 360 degree air supply by adjusting louver positions. By adopting 4-Way circulating airflow structure, air-conditioned flow can be distributed in all directions.



Focus on Healthy, Improved Indoor Air Quality

Sophisticated Antibacterial Technology (Indoor Units)

York high performance antibacterial filter adopts double-layer antibacterial structure (long-acting antibacterial filter and high performance antibacterial filter), adds active enzyme with a strong bactericidal function, which can restrain and kill bacteria and mould attached to the filter surface, as well as inhibit the reproduction of bacteria and mould on the high performance filter material and maintain fresh air in room.



Double-layer Antibacterial Filter

Focus on Environment-Friendly, Create Low Carbon Life Space

RoHS Reaction

Actively respond to Europe RoHS requirement, control the use of hazardous substance strictly.

RoHS

R410A Environment-Friendly Refrigerant, Protect Ozone Layer

R410A is a new non-toxic and harmless environmentally friendly refrigerant which has been worldwide and applied. York's newly launched JVOH series adopt R410A refrigerant that doesn't destroy the environment, brings temperature, humidity, freshness and health to every inch of space as well as saving energy.

Outdoor Units & Indoor Units

8HP/10HP/12HP	14HP/16HP/18HP	20HP	22HP/24HP/26HP	28HP/30HP/32HP/34HP/36HP	38HP/40HP/42HP	44HP/46HP/48HP	50HP/52HP/54HP

Outdoor Units Combination

HP	Model	Nominal Cooling Capacity (kW)	Combination			Connectable Indoor Units
8 HP	JVOH080VVER0AQ	22.4	JVOH080VVER0AQ			13
10 HP	JVOH100VVER0AQ	28.0	JVOH100VVER0AQ			16
12 HP	JVOH120VVER0AQ	33.5	JVOH120VVER0AQ			19
14 HP	JVOH140VVER0AQ	40.0	JVOH140VVER0AQ			23
16 HP	JVOH160VVER0AQ	45.0	JVOH160VVER0AQ			26
18 HP	JVOH180VVER0AQ	50.0	JVOH180VVER0AQ			26
20 HP	JVOH200VVER0AQ	56.0	JVOH080VVER0AQ	JVOH120VVER0AQ		33
22 HP	JVOH220VVER0AQ	61.5	JVOH080VVER0AQ	JVOH140VVER0AQ		36
24 HP	JVOH240VVER0AQ	69.0	JVOH100VVER0AQ	JVOH140VVER0AQ		40
26 HP	JVOH260VVER0AQ	73.0	JVOH120VVER0AQ	JVOH140VVER0AQ		43
28 HP	JVOH280VVER0AQ	80.0	JVOH140VVER0AQ	JVOH140VVER0AQ		47
30 HP	JVOH300VVER0AQ	85.0	JVOH140VVER0AQ	JVOH160VVER0AQ		50
32 HP	JVOH320VVER0AQ	90.0	JVOH160VVER0AQ	JVOH160VVER0AQ		53
34 HP	JVOH340VVER0AQ	95.0	JVOH160VVER0AQ	JVOH180VVER0AQ		56
36 HP	JVOH360VVER0AQ	100.0	JVOH180VVER0AQ	JVOH180VVER0AQ		59
38 HP	JVOH380VVER0AQ	109.0	JVOH120VVER0AQ	JVOH120VVER0AQ	JVOH140VVER0AQ	64
40 HP	JVOH400VVER0AQ	112.0	JVOH120VVER0AQ	JVOH120VVER0AQ	JVOH160VVER0AQ	64
42 HP	JVOH420VVER0AQ	118.0	JVOH120VVER0AQ	JVOH120VVER0AQ	JVOH180VVER0AQ	64
44 HP	JVOH440VVER0AQ	125.0	JVOH120VVER0AQ	JVOH140VVER0AQ	JVOH180VVER0AQ	64
46 HP	JVOH460VVER0AQ	132.0	JVOH120VVER0AQ	JVOH160VVER0AQ	JVOH180VVER0AQ	64
48 HP	JVOH480VVER0AQ	136.0	JVOH120VVER0AQ	JVOH180VVER0AQ	JVOH180VVER0AQ	64
50 HP	JVOH500VVER0AQ	140.0	JVOH140VVER0AQ	JVOH180VVER0AQ	JVOH180VVER0AQ	64
52 HP	JVOH520VVER0AQ	145.0	JVOH160VVER0AQ	JVOH180VVER0AQ	JVOH180VVER0AQ	64
54 HP	JVOH540VVER0AQ	150.0	JVOH180VVER0AQ	JVOH180VVER0AQ	JVOH180VVER0AQ	64

Indoor units

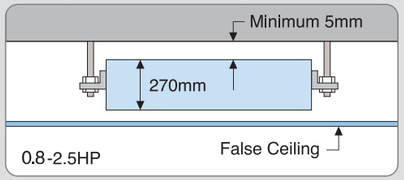
Type	Model	0.8HP	1.0HP	1.3HP	1.5HP	1.8HP	2.0HP	2.3HP	2.5HP	3.0HP	3.3HP	4.0HP	5.0HP	6.0HP	8.0HP	10HP
In–the–ceiling (Low/Medium Static Ducted)	 JTDL(M)-H0NB(F)0AQ	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
In–the–ceiling (Medium/High Static Ducted)	 JTDM(H)-H0NB(F)0AQ	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
In–the–ceiling (Compact Ducted)	 JTDN-H0PB0AQ	●	●	●	●	●	●	●	●							
In–the–ceiling (Slim Ducted)	 JTDS-H0PB0AQ	●	●	●	●											
Four–Way Cassette	 JTKF-H0PS0AQ		●	●	●	●	●	●	●	●	●	●	●	●		
Two–Way Cassette	 JTKT-H0PS0AS	●	●		●		●		●	●		●	●	●		
High Wall	 JTHW-H0NB0AQ	●	●	●	●	●	●	●								
Floor	 JTFE-H0NB0AE		●		●											
Floor Concealed	 JTFC-H0NB0AQ		●		●		●		●							

In-the-ceiling (Low/Medium Static Ducted)

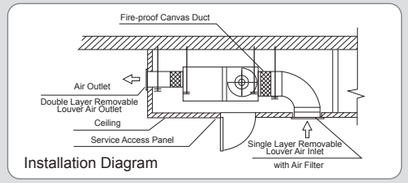
York VRF -JTDL(M) Technique Features

Installation Space-saving

Less than 270mm in height can be easily fit into the limited space in the false ceiling (0.8HP to 2.5HP).



Flexibly Satisfy Varied Requests on Installation



NOTE:
When bottom air inlet is adopted,sound pressure will increase according to factors such as installation mode and the room structure.

Fresh Indoor Air

By introducing fresh outdoor air and being equipped with air filter to keep indoor air clean.

Excellent Air Flow

Cooling/heating air is distributed from the unit to indoor space through ducts, which creates a comfortable environment.

Quiet Operation

Far less noise , much quieter operation.

Model	High Fan Speed	Low Fan Speed
JTDL022H0NN(B)0AQ	29.5dB	24.5dB
JTDL028H0NN(B)0AQ	29.5dB	24.5dB
JTDL036H0NN(B)0AQ	34dB	30dB
JTDL043H0NN(B)0AQ	34dB	30dB
JTDL050H0NN(B)0AQ	34dB	30dB
JTDL056H0NN(B)0AQ	34dB	30dB
JTDL063H0NN(B)0AQ	35dB	31dB
JTDL071H0NN(B)0AQ	35dB	31dB
JTDL084H0NN(B)0AQ	40dB	33dB
JTDL090H0NN(B)0AQ	40dB	33dB
JTDL112H0NN(B)0AQ	41.5dB	35dB
JTDL142H0NN(B)0AQ	42dB	35dB
JTDL160H0NN(B)0AQ	43dB	37dB
JTDM224H0NM(F)0AQ	50dB	
JTDM280H0NM(F)0AQ	52dB	

Optional Parts

Drain-up mechanism can be supplied as optional part.

Condensate Drain-up

Indoor Unit		In-the-ceiling (Low/Medium Static Ducted)														
Model		JTDL022 H0NB0AQ	JTDL028 H0NB0AQ	JTDL036 H0NB0AQ	JTDL043 H0NB0AQ	JTDL050 H0NB0AQ	JTDL056 H0NB0AQ	JTDL063 H0NB0AQ	JTDL071 H0NB0AQ	JTDL084 H0NB0AQ	JTDL090 H0NB0AQ	JTDL112 H0NB0AQ	JTDL142 H0NB0AQ	JTDL160 H0NB0AQ	JTDM224 H0NF0AQ	JTDM280 H0NF0AQ
Power Supply		AC1Φ, 220V/60Hz													AC3Φ, 380V/60Hz	
Nominal Cooling Capacity *1)	kW	2.3	2.9	3.8	4.4	5.2	5.8	6.5	7.3	8.7	9.3	11.6	14.5	16.5	23.2	28.6
	kcal/h	2,000	2,500	3,300	3,800	4,500	5,000	5,600	6,300	7,500	8,000	10,000	12,500	14,200	20,000	24,600
	Btu/h	7,800	9,900	13,000	15,000	17,700	19,800	22,200	24,900	29,700	31,700	39,600	49,500	56,300	79,200	97,600
Nominal Cooling Capacity *2)	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0	22.4	28.0
	kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800	19,300	24,100
	Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600	76,500	95,600
Nominal Heating Capacity	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0	25.0	31.5
	kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500	21,500	27,100
	Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400	85,300	107,500
Sound Pressure Level (High/Medium/Low)	dB(A)	29.5-26-24.5	29.5-26-24.5	34-32-30	34-32-30	34-32-30	34-32-30	35-33-31	35-33-31	40-37-33	40-37-33	41.5-39-35	42-39-35	43-39-37	50	52
Outer Dimensions	H mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470
	W mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1060	1250
	D mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
Net Weight	kg	26	26	26	26	35	35	35	35	46	46	46	58	58	96	104
	(lbs)	(57)	(57)	(57)	(57)	(77)	(77)	(77)	(77)	(101)	(101)	(101)	(128)	(128)	(211)	(238)
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)														
Indoor Fan Air Flow Rate (High/Medium/Low)	m^3/min	8/7/6	8/7/6	13/11/9	13/11/9	15/13/11	15/13/11	16/14/12	16/14/12	25/21/17	25/21/17	27/23/19	37/31/25	38/35/29	58	72
Motor Power	W	20	20	40	40	45	45	45	45	100	100	100	160	180	500	750
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)													Brazing	
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2
	(in.)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(3/4)	(7/8)
Condensate Drain		VP25(Outer Diameter Φ32)														
External Static Pressure	Pa	30	30	30	30	30	30	30	30	60	60	60	60	60	100	100
Approximate Packing Measurement	m^3	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52	0.52	0.90	0.90

NOTES:

1.The nominal cooling capacity and heating capacity are based on following conditions:

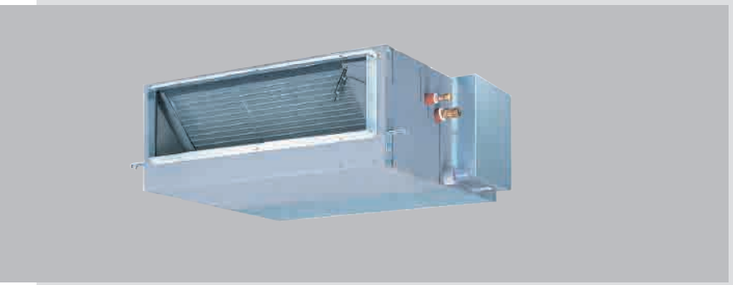
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB)
*1):19.5°C WB (67°F WB)
*2):19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB)
Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
6°C WB(43°F WB)

2.The sound pressure level is based on following conditions.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.
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

3.The data for external pressure indicates standard pressure setting values when air filter is not used.

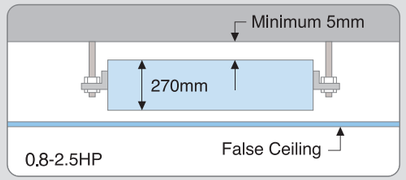
In-the-ceiling (Medium/High Static Ducted)



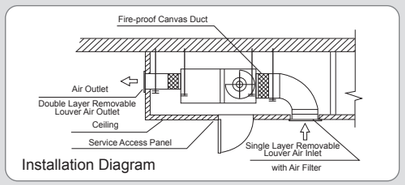
York VRF -JTDM(H) Technique Features

Installation Space-saving

Less than 270mm in height can be easily fit into the limited space in the false ceiling (0.8HP to 2.5HP).



Flexibly Satisfy Varied Requests on Installation



NOTE:
When bottom air inlet is adopted,sound pressure will increase according to factors such as installation mode and the room structure.

Higher External Static Pressure

Better installation flexibility at site, longer ducts can be connected.

Quiet Operation

Far less noise , much quieter operation.

Model	High Fan Speed	Low Fan Speed
JTDM022H0NF(B)0AQ	35dB	31dB
JTDM028H0NF(B)0AQ	35dB	31dB
JTDM036H0NF(B)0AQ	35dB	31dB
JTDM043H0NF(B)0AQ	35dB	31dB
JTDM050H0NF(B)0AQ	35dB	31dB
JTDM056H0NF(B)0AQ	35dB	31dB
JTDM063H0NF(B)0AQ	36dB	32dB
JTDM071H0NF(B)0AQ	36dB	32dB
JTDH084H0NF(B)0AQ	42dB	35dB
JTDH090H0NF(B)0AQ	42dB	35dB
JTDH112H0NF(B)0AQ	43dB	36dB
JTDH142H0NF(B)0AQ	44dB	37dB
JTDH160H0NF(B)0AQ	45dB	37dB
JTDH224H0NM(F)0AQ	50dB	
JTDH280H0NM(F)0AQ	52dB	

Optional Parts

Drain-up mechanism can be supplied as optional part.

Condensate Drain-up

Indoor Unit		In-the-ceiling (Medium/High Static Ducted)														
Model		JTDM022 H0NB0AQ	JTDM028 H0NB0AQ	JTDM036 H0NB0AQ	JTDM043 H0NB0AQ	JTDM050 H0NB0AQ	JTDM056 H0NB0AQ	JTDM063 H0NB0AQ	JTDM071 H0NB0AQ	JTDH084 H0NB0AQ	JTDH090 H0NB0AQ	JTDH112 H0NB0AQ	JTDH142 H0NB0AQ	JTDH160 H0NB0AQ	JTDH224 H0NF0AQ	JTDH280 H0NF0AQ
Power Supply		AC1Φ,220V/60Hz													AC3Φ,380V/60Hz	
Nominal Cooling Capacity*1)	kW	2.3	2.9	3.8	4.4	5.2	5.8	6.5	7.3	8.7	9.3	11.6	14.5	16.5	23.2	28.6
	kcal/h	2,000	2,500	3,300	3,800	4,500	5,000	5,600	6,300	7,500	8,000	10,000	12,500	14,200	20,000	24,600
	Btu/h	7,800	9,900	13,000	15,000	17,700	19,800	22,200	24,900	29,700	31,700	39,600	49,500	56,300	79,200	97,600
Nominal Cooling Capacity *2)	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0	22.4	28.0
	kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800	19,300	24,100
	Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600	76,500	95,600
Nominal Heating Capacity	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0	25.0	31.5
	kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500	21,500	27,100
	Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400	85,300	107,500
Sound Pressure Level (High/Medium/Low)	dB(A)	35-33-31	35-33-31	35-33-31	35-33-31	35-33-31	35-33-31	36-34-32	36-34-32	42-39-35	42-39-35	43-40-36	44-41-37	45-41-37	50	52
Outer Dimensions	H mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470
	W mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1060	1250
	D mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120
Net Weight	kg	26	26	26	26	35	35	35	35	46	46	46	58	58	96	104
	(lbs)	(57)	(57)	(57)	(57)	(77)	(77)	(77)	(77)	(101)	(101)	(101)	(128)	(128)	(211)	(238)
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)														
Indoor Fan Air Flow Rate (High/Medium/Low)	m^3/min	8/7/6	8/7/6	13/11/9	13/11/9	15/13/11	15/13/11	16/14/12	16/14/12	25/21/17	25/21/17	27/23/19	37/31/25	38/35/29	58	72
Motor Power	W	35	35	60	60	75	75	75	75	120	120	120	200	280	650	900
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)													Brazing	
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2
	(in.)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(3/4)	(7/8)
Condensate Drain		VP25(Outer Diameter Φ32)														
External Static Pressure	Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	120(90)	120(90)	120(90)	120(90)	120(90)	180	180
Approximate Packing Measurement	m^3	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52	0.52	0.90	1.06

NOTES:

1.The nominal cooling capacity and heating capacity are based on following conditions:

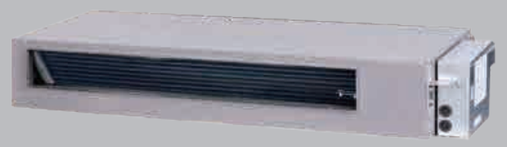
Cooling Operation Conditions
Indoor Air Inlet Temperature:27°C DB(80°F DB)
*1):19.5°C WB (67°F WB)
*2):19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB)
Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
6°C WB(43°F WB)

2.The sound pressure level is based on following conditions.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.
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.

3.The data for external pressure indicates standard pressure setting values when air filter is not used.

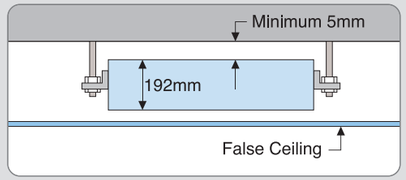
In-the-ceiling (Compact Ducted)



York VRF -JTDN Technique Features

Installation Space-saving

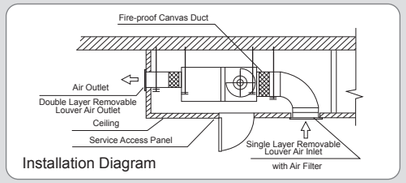
With a height of 192mm may be easily installed inside the low height residential ceiling.



Broad Range of External Static Pressure

10Pa(or30Pa), flexibly supports a wide range of installation conditions at site, e.g. longer ducts and shorter ducts supplied.

Flexibly Satisfy Varied Requests on Installation



NOTE:
When bottom air inlet is adopted,sound pressure will increase according to factors such as installation mode and the room structure.

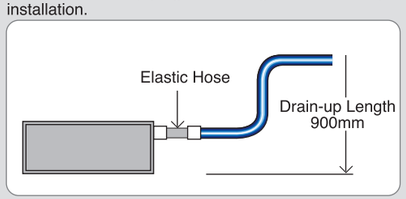
Quiet Operation

Air flow rate can be adjusted by 3 grades, lower noise in lower grade.

Model	High Sound Pressure(dB)	Low Sound Pressure(dB)
JTDN022H0PN(B)0AQ	27	21
JTDN028H0PN(B)0AQ	27	21
JTDN036H0PN(B)0AQ	31	26
JTDN043H0PN(B)0AQ	31	26
JTDN050H0PN(B)0AQ	34	28
JTDN056H0PN(B)0AQ	34	28
JTDN063H0PN(B)0AQ	35	30
JTDN071H0PN(B)0AQ	35	30

Drain-up Mechanism as Standard Part

Drain-up length achieves 900mm which enables convenient drain piping and enlarges the flexibility of installation.



Indoor Unit			In-the-ceiling (Compact Ducted)							
Model			JTDN022 H0PB0AQ	JTDN028 H0PB0AQ	JTDN036 H0PB0AQ	JTDN043 H0PB0AQ	JTDN050 H0PB0AQ	JTDN056 H0PB0AQ	JTDN063 H0PB0AQ	JTDN071 H0PB0AQ
Power Supply			AC1Φ, 220V/60Hz							
Nominal Cooling Capacity *1)		kW	2.3	2.9	3.8	4.4	5.2	5.8	6.5	7.3
		kcal/h	2,000	2,500	3,300	3,800	4,500	5,000	5,600	6,300
		Btu/h	7,800	9,900	13,000	15,000	17,700	19,800	22,200	24,900
Nominal Cooling Capacity *2)		kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1
		kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100
		Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200
Nominal Heating Capacity		kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5
		kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300
		Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000
Sound Pressure Level (High/Medium/Low)		dB(A)	27-24-21	27-24-21	31-29-26	31-29-26	34-30-28	34-30-28	35-33-30	35-33-30
Outer Dimensions	H	mm	192	192	192	192	192	192	192	192
	W	mm	900	900	900	900	1,170	1,170	1,170	1,170
	D	mm	447	447	447	447	447	447	447	447
Net Weight		kg	20	20	21	21	26	26	26	26
		(lbs)	(46)	(46)	(48)	(48)	(59)	(59)	(59)	(59)
Refrigerant			R410A(Nitrogen-charged for Corrosion-resistance)							
Indoor Fan Air Flow Rate (High/Medium/Low)		m^3/min	8/7/6	8/7/6	10/8/7	10/8/7	14.5/12.5/10.5	14.5/12.5/10.5	16/14/12	16/14/12
Motor Power		W	16	16	25	25	40	40	50	50
Connections Refrigerant Piping			Flare-nut Connection(with Flare Nuts)							
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
		(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88
		(in.)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)
Condensate Drain			VP25(Outer Diameter Φ32)							
External Static Pressure		Pa	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Approximate Packing Measurement		m^3	0.15	0.15	0.15	0.15	0.18	0.18	0.18	0.18

NOTES:

1.The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB)
*1):19.5°C WB (67°F WB)
*2):19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB)
Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
6°C WB(43°F WB)

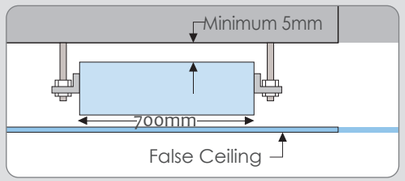
2.The sound pressure level is based on following conditions.1.5m beneath the unit.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.
3.The data for external pressure indicates standard pressure setting values when air filter is not used.

In-the-ceiling (Slim Ducted)

York VRF -JTDS Technique Features

Installation Space-saving

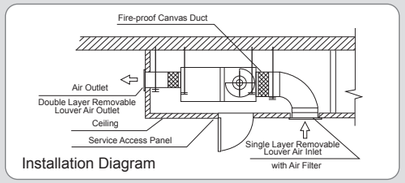
With a width of 700mm may be easily installed inside narrow residential ceiling.



Broad Range of External Static Pressure

10Pa(or30pa), flexibly supports a wide range of installation conditions at site, e.g. longer ducts and shorter ducts supplied.

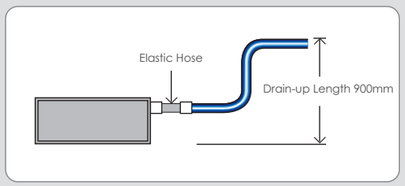
Flexibly Satisfy Varied Requests on Installation



NOTE:
When bottom air inlet is adopted,sound pressure will increase according to factors such as installation mode and the room structure.

Drain-up Mechanism as Standard Part

Drain-up length achieves 900mm which enables convenient drain piping and enlarges the flexibility of installation.



Indoor Unit			In-the-ceiling (Slim Ducted)			
Model			JTDS022H0PB0AQ	JTDS028H0PB0AQ	JTDS036H0PB0AQ	JTDS043H0PB0AQ
Power Supply			AC1Φ,220V/60Hz			
Nominal Cooling Capacity *1)		kW	2.3	2.9	3.8	4.4
		kcal/h	2,000	2,500	3,300	3,800
		Btu/h	7,800	9,900	13,000	15,000
Nominal Cooling Capacity *2)		kW	2.2	2.8	3.6	4.3
		kcal/h	1,900	2,400	3,100	3,700
		Btu/h	7,500	9,600	12,300	14,700
Nominal Heating Capacity		kW	2.8	3.3	4.2	4.9
		kcal/h	2,400	2,800	3,600	4,200
		Btu/h	9,600	11,300	14,300	16,700
Sound Pressure Level (High/Medium/Low)		dB(A)	28-25-22	28-25-22	32-30-28	32-30-28
Outer Dimensions	H	mm	192	192	192	192
	W	mm	700	700	700	700
	D	mm	602	602	602	602
Net Weight		kg	21	21	22	22
		(lbs)	(46)	(46)	(48)	(48)
Refrigerant			R410A(Nitrogen-charged for Corrosion-resistance)			
Indoor Fan Air Flow Rate (High/Medium/Low)		m^3/min	8/7/6	8/7/6	10/8/7	10/8/7
Motor Power		W	50	50	60	60
Connections Refrigerant Piping			Flare-nut Connection(with Flare Nuts)			
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		(in.)	(1/4)	(1/4)	(1/4)	(1/4)
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7
		(in.)	(1/2)	(1/2)	(1/2)	(1/2)
Condensate Drain			VP25			
External Static Pressure		Pa	10(30)	10(30)	10(30)	10(30)
Approximate Packing Measurement		m^3	0.15	0.15	0.15	0.15

NOTES:

1.The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
Indoor Air Inlet Temperature:27°C DB(80°F DB)
*1):19.5°C WB (67°F WB)
*2):19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB)
Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
6°C WB(43°F WB)

2.The sound pressure level is based on following conditions.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.
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.
3.The data for external pressure indicates standard pressure setting values when air filter is not used.

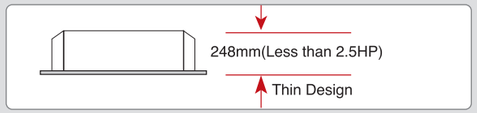
Four-Way Cassette

York VRF -JTKF Technique Features

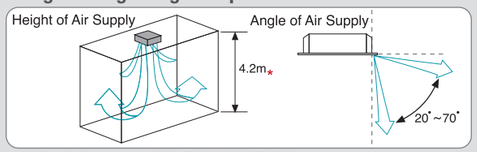
Extremely Quiet Operation
By employing a super-high-stream turbo fan (Three-dimensional twisted wing large bore and high efficiency), the wind flow efficiency has been improved. With the under damping slit mounted near the center of the revolving shaft, the abnormal noise which is unique to DC motors caused by the number of magnetic poles and revolution speed of the motor, is reduced.

Unified Panel Sizes
Panel sizes are unified to a 950mm square, neat and elegance, and well harmonized with decoration.

Compact and Thin
The height of the unit is just 248mm(Less than 2.5HP), so it can be installed in a small space inside a ceiling.



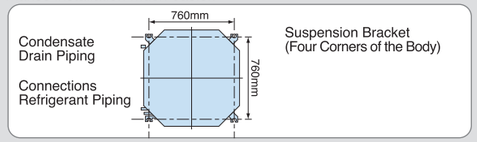
With broad range of air supply, is suitable to be used in high ceiling and great space



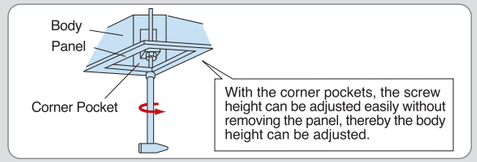
* When indoor unit model is RCI-3.0~6.0FSN1Q.
When indoor unit model is RCI-1.0~2.5FSN1Q, the value is 3.5m.

Input power reduced by applying of new developed DC fan motor.
Employed several new technologies such as a ferritic magnetic surface-mounted rotor, centralized winding system and split core system, the motor efficiency is improved in all aspects, smaller and lighter.

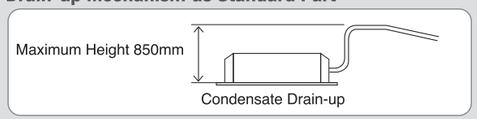
Flexible Refrigerant Piping
Suspending brackets are at the square corners of the body with pitch size of 760mm. The direction of the body can be changed easily according to the pipe-out opening without change the bolt position which makes installation much easier.



Body height easily adjustable in the corner pockets
A pocket is provided for each of the four panel corners, so that the body height can be adjusted easily without removing the panel.



Drain-up Mechanism as Standard Part



Indoor Unit		Four-Way Cassette											
Model		JTKF028 H0PS0AQ	JTKF036 H0PS0AQ	JTKF043 H0PS0AQ	JTKF050 H0PS0AQ	JTKF056 H0PS0AQ	JTKF063 H0PS0AQ	JTKF071 H0PS0AQ	JTKF084 H0PS0AQ	JTKF090 H0PS0AQ	JTKF112 H0PS0AQ	JTKF142 H0PS0AQ	JTKF160 H0PS0AQ
Power Supply		AC1Φ,220V/60Hz											
Nominal Cooling Capacity *1)	kW	2.9	3.8	4.4	5.2	5.8	6.5	7.3	8.7	9.3	11.6	14.5	16.5
	kcal/h	2,500	3,300	3,800	4,500	5,000	5,600	6,300	7,500	8,000	10,000	12,500	14,200
	Btu/h	9,900	13,000	15,000	17,700	19,800	22,200	24,900	29,700	31,700	39,600	49,500	56,300
Nominal Cooling Capacity *2)	kW	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0
	kcal/h	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800
	Btu/h	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600
Nominal Heating Capacity	kW	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0
	kcal/h	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500
	Btu/h	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400
Sound Pressure Level (High/Medium/Low)	dB(A)	32-30-28	32-30-28	32-30-28	32-30-28	32-30-28	32-30-28	32-30-28	34-32-30	34-32-30	41-36-33	43-38-35	44-40-36
Outer Dimensions(H)	mm	248	248	248	248	248	248	248	298	298	298	298	298
	(in.)	(9-3/4)	(9-3/4)	(9-3/4)	(9-3/4)	(9-3/4)	(9-3/4)	(9-3/4)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)	(11-3/4)
Outer Dimensions(W)	mm	840	840	840	840	840	840	840	840	840	840	840	840
	(in.)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)
Outer Dimensions(D)	mm	840	840	840	840	840	840	840	840	840	840	840	840
	(in.)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)	(33-1/16)
Net Weight	kg	22	22	22	25	25	25	25	27	27	30	30	30
	(lbs)	(51)	(51)	(51)	(53)	(53)	(53)	(53)	(57)	(57)	(64)	(64)	(64)
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)											
Indoor Fan Air Flow Rate (High/Medium/Low)	m^3/min	13/12/11	15/13.5/12	15/13.5/12	16/14/12	16/14/12	19/17/14	20/17/15	26/23/20	26/23/20	32/28/24	34/29/25	37/32/27
Motor Power	W	56	56	56	56	56	56	56	56	56	108	108	108
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)											
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)	(3/8)
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
	(in.)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)	(5/8)
Condensate Drain		VP25(Outer Diameter Φ32)											
Approximate Packing Measurement	m^3	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.26	0.26	0.26	0.26	0.26
Standard Accessories		Suspension Brackets											
Panel Model		P-N23NAQ											
Cabinet Color		Neutral White											
Outer Dimensions(H)	mm	37	37	37	37	37	37	37	37	37	37	37	37
	(in.)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)	(1-7/16)
Outer Dimensions(W)	mm	950	950	950	950	950	950	950	950	950	950	950	950
	(in.)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)
Outer Dimensions(D)	mm	950	950	950	950	950	950	950	950	950	950	950	950
	(in.)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)	(37-3/8)
Net Weight	kg	6	6	6	6	6	6	6	6	6	6	6	6
	(lbs)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)
Approximate Packing Measurement	m^3	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

NOTES:

1.The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
Indoor Air Inlet Temperature:27°C DB(80°F DB)
*1):19.5°C WB (67°F WB)
*2):19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB)
Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
6°C WB(43°F WB)

2. The sound pressure level is based on following conditions.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.

Two-Way Cassette

York VRF -JTKT Technique Features

Improvement of Energy-Saving Operation by Adopting Motion Sensor

● Motion Sensor Function

The motion sensor function can adjust the setting temperature according to the human activity and it controls the air flow volume and the air flow direction. The energy-saving is improved by combining the motion sensor function and individual operating function comparing with the standard operation.

Improvement of Drain Pump

High-lift DC drain pump makes it possible to raise the drain pipe straight up, up to 850mm from the false ceiling surface.

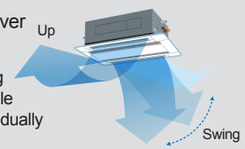
New Design & High Performance Air Panel

● Simple & Stylish Design

Brand new design air panel. Simple stylish design yet applicable for air inlet flat grill. Can be used as shutter at time of OFF operation.

● 2-way Individual Louver

The newly equipped individual louver setting function allows the angle of 2 louvers to be individually adjusted.



Indoor Unit		Two-Way Cassette								
Model		JTKT022 H0PS0AS	JTKT028 H0PS0AS	JTKT040 H0PS0AS	JTKT056 H0PS0AS	JTKT071 H0PS0AS	JTKT080 H0PS0AS	JTKT112 H0PS0AS	JTKT140 H0PS0AS	JTKT160 H0PS0AS
Power Supply		AC1Φ,220V/60Hz								
Nominal Cooling Capacity*1)	kW	2.3	2.9	4.1	5.8	7.3	8.3	11.6	14.5	16.5
	kcal/h	2,000	2,500	3,550	5,000	6,300	7,100	10,000	12,500	14,200
	Btu/h	7,900	9,900	14,100	19,800	25,000	28,200	39,700	49,600	56,300
Nominal Cooling Capacity*2)	kW	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0
	kcal/h	1,900	2,400	3,400	4,800	6,100	6,900	9,600	12,000	13,800
	Btu/h	7,500	9,600	13,600	19,100	24,200	27,300	38,200	47,800	54,600
Nominal Heating Capacity	kW	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0
	kcal/h	2,100	2,800	4,100	5,400	7,300	7,700	10,700	13,800	15,500
	Btu/h	8,500	10,900	16,400	21,500	29,000	30,700	42,600	54,600	61,400
Sound Pressure Level (High2/High/Medium/Low)	dB	30/29/28/27	31/29/28/27	37/34/31/30	39/36/33/30	42/39/36/33	45/42/38/33	43/40/37/34	47/44/41/35	48/45/42/39
Dimensions H x W x D	mm	298 x 860 x 630						298 x 1,420 x 630		
Net Weight	kg	23		25				39		
Refrigerant		R410A (Nitrogen-Charged for Corrosion-Resistance)								
Air Flow Rate Hi2/Hi/Me/Lo	m^3/min.	10/9/7.5/6.5	11/9.5/8.5/7	15/13/11.5/10	16.5/14.5/12.5/10.5	18.5/16.5/14.5/12.5	21/18.5/16/12.5	30/26.5/23/20	35/31/27/21	37/32.5/28.5/24
	(cfm)	(353/318/265/230)	(388/335/300/247)	(530/459/406/353)	(583/512/441/371)	(653/583/512/441)	(742/653/565/441)	(1,059/936/812/706)	(1,236/1,095/953/742)	(1,306/1,148/1,006/847)
Motor	W	57						57 x 2		
Connections		Flare-Nut Connection (With Flare Nuts)								
Liquid / Gas	mm	Φ 6.35 / Φ 12.7				Φ9.52 / Φ15.88				
Condensate Drain		VP25								
Approximate Packing Measurement	m^3	0.24						0.36		
Adaptable Panel Model		P-AP90DNA (without Monitor Sensor)						P-AP160DNA (without Monitor Sensor)		
Color		Neutral White								
Dimensions H x W x D	mm	30 x 1,100 x 710						30 x 1,660 x 710		
Net Weight	kg	7.5						10.5		
Approximate Packing Measurement	m^3	0.13						0.20		

NOTES:

1.The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
Indoor Air Inlet Temperature:27°C DB(80°F DB)
*1):19.5°C WB (67°F WB)
*2):19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB)
Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
6°C WB(43°F WB)

2.The sound pressure level is based on following conditions.
1 Meters Beneath the Unit and 1 Meters from Inlet Grille.
Voltage of the power source for the indoor fan motor is 220V.
In case of the power source of 240V, the sound pressure level increases by about 1~2dB.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

High Wall

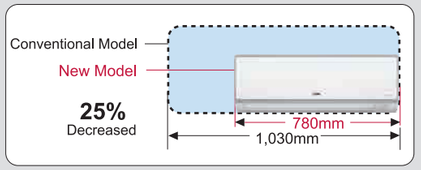
York VRF -JTHW Technique Features

Easy Installation

The installation of remote control switches has been improved. A terminal board for the use of wired remote control switches has been added, along with a change over switch allowing easy selection between wired and wireless remote control switches.

Industry-leading Compactness

With a width of 780 mm, it can be installed in a small room between pillars. Compared with conventional model the width is about 25% less, for greater flexibility of installation in about 900mm.



Light Weight Design

Units weight has been vastly reduced.

Model

HP	Weight(kg)
0.8~1.5	10
1.8~2.5	13.5

Wireless Remote Controller as Standard Part

Units are equipped with wireless remote switch (standard) and remote control switch can be supplied as optional part which can meet various central control needs in many cases.

JCRA10NEWQ
Wireless Remote Control Switch

Easy Troubleshooting

An alarm code function has been added to the front panel LEDs enabling the alarm code to be checked when using the wireless remote control switch.

Indoor Unit		High Wall						
Model		JTHW022 H0NB0AQ	JTHW028 H0NB0AQ	JTHW036 H0NB0AQ	JTHW040 H0NB0AQ	JTHW050 H0NB0AQ	JTHW056 H0NB0AQ	JTHW063 H0NB0AQ
Power Supply		AC1Φ,220V/60Hz						
Nominal Cooling Capacity*1)	kW	2.3	2.9	3.8	4.1	5.2	5.8	6.5
	kcal/h	2,000	2,500	3,300	3,550	4,500	5,000	5,600
	Btu/h	7,800	9,900	13,000	14,100	17,700	19,800	22,200
Nominal Cooling Capacity*2)	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3
	kcal/h	1,900	2,400	3,100	3,450	4,300	4,800	5,400
	Btu/h	7,500	9,600	12,300	13,600	17,000	19,100	21,500
Nominal Heating Capacity	kW	2.5	3.3	4.0	4.5	5.6	6.3	7.1
	kcal/h	2,150	2,800	3,450	3,900	4,800	5,400	6,100
	Btu/h	8,500	11,100	13,600	15,300	19,100	21,500	24,200
Sound Pressure Level (High/Medium/Low)	dB(A)	38/36/32	38/36/32	40/36/34	41/38/35	41/38/35	41/38/35	44/41/38
Outer Dimensions(H)	mm	280	280	280	280	290	290	290
	(in.)	11	11	11	11	12	12	12
Outer Dimensions(W)	mm	780	780	780	780	1,050	1,050	1,050
	(in.)	31	31	31	31	41	41	41
Outer Dimensions(D)	mm	220	220	220	220	220	220	220
	(in.)	9	9	9	9	9	9	9
Net Weight	kg	10	10	10	10	13.5	13.5	13.5
	(lbs)	22	22	22	22	30	30	30
Refrigerant		R410A(Nitrogen-charged for Corrosion-resistance)						
Indoor Fan Air Flow Rate (Cooling/Heating)	m^3/min	510/450/390	510/450/390	550/450/400	600/510/450	720/620/520	720/620/520	820/720/620
Motor Power	W	30	30	30	40	50	50	60
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)						
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	(in.)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)	(1/4)
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
	(in.)	(1/2)	(1/2)	(1/2)	(1/2)	(5/8)	(5/8)	(5/8)
Condensate Drain		VP16	VP16	VP16	VP16	VP16	VP16	VP16
Approximate Packing Measurement	m^3	0.12	0.12	0.12	0.12	0.15	0.15	0.15

NOTES:

1. The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB)
*1):19.5°C WB (67°F WB)
*2):19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB)
Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
6°C WB(43°F WB)

2. The sound pressure level is based on following conditions.
1 Meters Beneath the Unit and 1 Meters from Inlet Grille.
Voltage of the power source for the indoor fan motor is 220V.
In case of the power source of 240V, the sound pressure level increases by about 1~2dB.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Floor
Floor Concealed

York VRF -JTFE(C) Technique Features

Floor Concealed Type

Compact design for limited space inside of perimeter wall

So compact that it fits into even a tiny space

Special emphasis placed on interior design compatibility as well as space saving design, allowing it to fit perfectly into the space below a bay window.

Floor Type

Slim design for perimeter zone air conditioning

Space-saving slim unit, only 220mm in depth

Slim line design only 220 mm in depth, allowing it to be installed without spoiling the style or beauty of the room.

Effective use of space by window

With a height of 630 mm, may be installed by a window leaving plenty of window space. Best installed in a perimeter zone.

Indoor Unit		Floor		Floor Concealed			
Model		JTFE028H0NB0AE	JTFE040H0NB0AE	JTFC028H0NB0AQ	JTFC043H0NB0AQ	JTFC056H0NB0AQ	JTFC071H0NB0AQ
Power Supply		AC1Φ,220V/60Hz					
Nominal Cooling Capacity*1)	kW	2.9	4.1	2.9	4.4	5.8	7.3
	kcal/h	2,500	3,550	2,500	3,500	5,000	6,300
	Btu/h	9,900	14,100	9,900	14,000	19,800	24,900
Nominal Cooling Capacity*2)	kW	2.8	4.0	2.8	4.3	5.6	7.1
	kcal/h	2,400	3,400	2,400	3,700	4,800	6,100
	Btu/h	9,600	13,600	9,600	14,700	19,100	24,200
Nominal Heating Capacity	kW	3.2	4.8	3.3	4.9	6.5	8.5
	kcal/h	2,800	4,100	2,800	4,200	5,600	7,300
	Btu/h	10,900	16,400	11,300	16,700	22,200	29,000
Sound Pressure Level (High2/High/Medium/Low)	dB	35/32/29	38/35/31	37/34/31	40/38/35	42/38/36	45/43/40
Cabinet Color		Spring White		——			
Dimensions H x W x D	mm	630 x 1,045 x 220	630 x 1,170 x 220	620 x 900 x 202		620 x 1170 x 202	
Refrigerant		R410A (Nitrogen-Charged for Corrosion-Resistance)					
Air Flow Rate Hi2/Hi/Me/Lo	m^3/min.	8.5/7/6	12/10/9	8/7/6	10/8/7	14.5/12.5/10.5	16/14/12
	(cfm)	300/247/212	424/353/318	282/247/212	353/282/247	512/441/370	565/494/424
Motor	W	20	28				
Connections		Flare-Nut Connection (With Flare Nuts)					
Liquid / Gas	mm	Φ 6.35 / Φ12.7				Φ 6.35 / Φ15.88	Φ 9.53 / Φ15.88
Condensate Drain		18.5 OD		VP25			
Approximate Packing Measurement	m^3	0.26	0.29	0.19	0.19	0.23	0.23

NOTES:

1.The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
Indoor Air Inlet Temperature:27°C DB(80°F DB)
*1):19.5°C WB (67°F WB)
*2):19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB)
Outdoor Air Inlet Temperature: 7°C DB(45°F DB)
6°C WB(43°F WB)

2.The sound pressure level is based on following conditions.
Floor type: 1.5 meters from floor level.
Floor concealed type: 1.5 meters from the unit and 1.5 meters from the floor level.
Voltage of the power source for the indoor fan motor is 220V.
In case of the power source of 240V, the sound pressure level increases by about 1~2dB.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

Outdoor Units Parameter

Model		JVOH080VVER0AQ	JVOH100VVER0AQ	JVOH120VVER0AQ	JVOH140VVER0AQ
Combination		–	–	–	–
Power Supply		AC3Φ,220V/60Hz			
Nominal Cooling Capacity	kW	22.4	28.0	33.5	40.0
Nominal Heating Capacity	kW	25.0	31.5	37.5	45.0
Sound Pressure Level	dB	58	58	60	62
Cabinet Color		Ivory White			
Outer Dimensions(H×W×D)	mm	1720×950×765			1720×1210×765
Net Weight	kg	223	225	243	295
Refrigerant Category		R410A			
Refrigerant Flow Control		Micro-computer Control Expansion Valve			
Compressor Model		E656DHD	E656DHD	E656DHD	E656DHD+E655DH
Compressor Quantity		1	1	1	1+1
Compressor Output(Pole)	kW	4.8(4)	6.0(4)	7.2(4)	4.8(4)+4.4(2)
Heat Exchanger		Multi-pass Cross-finned Tube			
Condenser Fan Quantity		1	1	1	1
Air Flow Rate	m^3/min	155	170	175	195
Motor Output(Pole)	kW	0.33(8)	0.44(8)	0.49(8)	0.66(8)
Refrigerant Piping		Flare-nut Connection(With Flare Nuts)			
Liquid Line	mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7
Gas Line	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
Refrigerant Charge	kg	6.5	6.5	8.0	9.0
Holes For Power Supply Wiring	mm	Φ52	Φ52	Φ52	Φ52
Holes For Control Line Wiring	mm	Φ26	Φ26	Φ26	Φ26
Approximate Packing Measurement	m^3	1.57	1.57	1.57	1.97

Model		JVOH160VVER0AQ	JVOH180VVER0AQ	JVOH200VVER0AQ	JVOH220VVER0AQ
Combination		–	–	JVOH080VVER0AQ JVOH120VVER0AQ	JVOH080VVER0AQ JVOH140VVER0AQ
Power Supply		AC3Φ,220V/60Hz			
Nominal Cooling Capacity	kW	45.0	50.0	56.0	61.5
Nominal Heating Capacity	kW	50.0	56.0	63.0	69.0
Sound Pressure Level	dB	62	63	62	63
Cabinet Color		Ivory White			
Outer Dimensions(H×W×D)	mm	1720×1210×765		（1720×950×765）+（1720×950×765）	（1720× 950× 765）+（1720×1210×765）
Net Weight	kg	310	315	466	518
Refrigerant Category		R410A			
Refrigerant Flow Control		Micro-computer Control Expansion Valve			
Compressor Model		E656DHD+E655DH	E656DHD+E855DH	E656DHD+E656DHD	E656DHD+E656DHD+E655DH
Compressor Quantity		1+1	1+1	1+1	1+1+1
Compressor Output(Pole)	kW	6.0(4)+4.4(2)	6.0(4)+5.6(2)	4.8(4)+7.2(4)	4.8(4)+4.8(4)+4.4(2)
Heat Exchanger		Multi-pass Cross-finned Tube			
Condenser Fan Quantity		1	1	2	2
Air Flow Rate	m^3/min	195	195	330	350
Motor Output(Pole)	kW	0.66(8)	0.66(8)	0.33(8)+0.49(8)	0.33(8)+0.66(8)
Refrigerant Piping		Flare-nut Connection(With Flare Nuts)			
Liquid Line	mm	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Gas Line	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Refrigerant Charge	kg	10.5	10.5	14.5	15.5
Holes For Power Supply Wiring	mm	Φ52	Φ52	Φ52	Φ52
Holes For Control Line Wiring	mm	Φ26	Φ26	Φ26	Φ26
Approximate Packing Measurement	m^3	1.97	1.97	-	-

Model		JVOH240VVER0AQ	JVOH260VVER0AQ	JVOH280VVER0AQ	JVOH300VVER0AQ
Combination		JVOH100VVER0AQ JVOH140VVER0AQ	JVOH120VVER0AQ JVOH140VVER0AQ	JVOH140VVER0AQ JVOH140VVER0AQ	JVOH140VVER0AQ JVOH160VVER0AQ
Power Supply		AC3Φ,220V/60Hz			
Nominal Cooling Capacity	kW	69.0	73.0	80.0	85.0
Nominal Heating Capacity	kW	77.5	82.5	90.0	95.0
Sound Pressure Level	dB	63	64	65	65
Cabinet Color		Ivory White			
Outer Dimensions(H×W×D)	mm	（1720 × 950 × 765）+（1720×1210×765 ）		（1720 × 1210 × 765）+（1720×1210×765 ）	
Net Weight	kg	520	538	590	605
Refrigerant Category		R410A			
Refrigerant Flow Control		Micro-computer Control Expansion Valve			
Compressor Model		E656DHD+E656DHD+E655DH	E656DHD+E656DHD+E655DH	E656DHD+E655DH+E656DHD+E655DH	E656DHD+E655DH+E656DHD+E655DH
Compressor Quantity		1+1+1	1+1+1	1+1+1+1	1+1+1+1
Compressor Output(Pole)	kW	6.0(4)+4.8(4)+4.4(2)	7.2(4)+4.8(4)+4.4(2)	4.8(4)+4.4(2)+4.8(4)+4.4(2)	4.8(4)+4.4(2)+6.0(4)+4.4(2)
Heat Exchanger		Multi-pass Cross-finned Tube			
Condenser Fan Quantity		2	2	2	2
Air Flow Rate	m^3/min	365	370	390	390
Motor Output(Pole)	kW	0.44(8)+0.66(8)	0.49(8)+0.66(8)	0.66(8)+0.66(8)	0.66(8)+0.66(8)
Refrigerant Piping		Flare-nut Connection(With Flare Nuts)			
Liquid Line	mm	Φ15.88	Φ19.05	Φ19.05	Φ19.05
Gas Line	mm	Φ28.6	Φ31.75	Φ31.75	Φ31.75
Refrigerant Charge	kg	15.5	17.0	18.0	19.5
Holes For Power Supply Wiring	mm	Φ52	Φ52	Φ52	Φ52
Holes For Control Line Wiring	mm	Φ26	Φ26	Φ26	Φ26
Approximate Packing Measurement	m^3	–	–	–	–

Model		JVOH320VVER0AQ	JVOH340VVER0AQ	JVOH360VVER0AQ	JVOH380VVER0AQ
Combination		JVOH160VVER0AQ JVOH160VVER0AQ	JVOH160VVER0AQ JVOH180VVER0AQ	JVOH180VVER0AQ JVOH180VVER0AQ	JVOH120VVER0AQ JVOH120VVER0AQ JVOH140VVER0AQ
Power Supply		AC3Φ,220V/60Hz			
Nominal Cooling Capacity	kW	90.0	95.0	100.0	109.0
Nominal Heating Capacity	kW	100.0	106.0	112.0	118.0
Sound Pressure Level	dB	65	66	66	66
Cabinet Color		Ivory White			
Outer Dimensions(H×W×D)	mm	（1720 × 1210 × 765）+（1720×1210×765 ）			（1720× 950 × 765）+（1720× 950 × 765）+（1720×1210×765）
Net Weight	kg	620	625	630	781
Refrigerant Category		R410A			
Refrigerant Flow Control		Micro-computer Control Expansion Valve			
Compressor Model		E656DHD+E655DH+E656DHD+E655DH	E656DHD+E655DH+E656DHD+E855DH	E656DHD+E855DH+E656DHD+E855DH	E656DHD+E656DHD+E656DHD+E655DH
Compressor Quantity		1+1+1+1	1+1+1+1	1+1+1+1	1+1+1+1
Compressor Output(Pole)	kW	6.0(4)+4.4(2)+6.0(4)+4.4(2)	6.0(4)+4.4(2)+6.0(4)+5.6(2)	6.0(4)+5.6(2)+6.0(4)+5.6(2)	7.2(4)+7.2(4)+4.8(4)+4.4(2)
Heat Exchanger		Multi-pass Cross-finned Tube			
Condenser Fan Quantity		2	2	2	3
Air Flow Rate	m^3/min	390	390	390	545
Motor Output(Pole)	kW	0.66(8)+0.66(8)	0.66(8)+0.66(8)	0.66(8)+0.66(8)	0.49(8)+0.49(8)+0.66(8)
Refrigerant Piping		Flare-nut Connection(With Flare Nuts)			
Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Gas Line	mm	Φ31.75	Φ31.75	Φ38.1	Φ38.1
Refrigerant Charge	kg	21.0	21.0	21.0	25.0
Holes For Power Supply Wiring	mm	Φ52	Φ52	Φ52	Φ52
Holes For Control Line Wiring	mm	Φ26	Φ26	Φ26	Φ26
Approximate Packing Measurement	m^3	–	–	–	–

Outdoor Units Parameter

Model		JVOH400VVER0AQ	JVOH420VVER0AQ	JVOH440VVER0AQ	JVOH460VVER0AQ
Combination		JVOH120VVER0AQ JVOH120VVER0AQ JVOH160VVER0AQ	JVOH120VVER0AQ JVOH120VVER0AQ JVOH180VVER0AQ	JVOH120VVER0AQ JVOH140VVER0AQ JVOH180VVER0AQ	JVOH120VVER0AQ JVOH160VVER0AQ JVOH180VVER0AQ
Power Supply		AC3Φ,220V/60Hz			
Nominal Cooling Capacity	kW	112.0	118.0	125.0	132.0
Nominal Heating Capacity	kW	125.0	132.0	140.0	145.0
Sound Pressure Level	dB	66	66	67	67
Cabinet Color		Ivory White			
Outer Dimensions(H×W×D)	mm	（1720× 950 × 765）+（1720× 950 × 765）+（1720×1210×765）		（1720×950×765 ）+（1720×1210×765 ）+（1720×1210×765 ）	
Net Weight	kg	796	801	853	868
Refrigerant Category		R410A			
Refrigerant Flow Control		Micro-computer Control Expansion Valve			
Compressor Model		E656DHD+E656DHD+E656DHD+E655DH	E656DHD+E656DHD+E656DHD+E855DH	E656DHD+E656DHD+E655DH+E656DHD+E855DH	E656DHD+E656DHD+E655DH+E656DHD+E855DH
Compressor Quantity		1+1+1+1	1+1+1+1	1+1+1+1+1	1+1+1+1+1
Compressor Output(Pole)	kW	7.2(4)+7.2(4)+6.0(4)+4.4(2)	7.2(4)+7.2(4)+6.0(4)+5.6(2)	7.2(4)+4.8(4)+4.4(2)+6.0(4)+5.6(2)	7.2(4)+6.0(4)+4.4(2)+6.0(4)+5.6(2)
Heat Exchanger		Multi-pass Cross-finned Tube			
Condenser Fan Quantity		3	3	3	3
Air Flow Rate	m^3/min	545	545	565	565
Motor Output(Pole)	kW	0.49(8)+0.49(8)+0.66(8)	0.49(8)+0.49(8)+0.66(8)	0.49(8)+0.66(8)+0.66(8)	0.49(8)+0.66(8)+0.66(8)
Refrigerant Piping		Flare-nut Connection(With Flare Nuts)			
Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Gas Line	mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Refrigerant Charge	kg	26.5	26.5	27.5	29.0
Holes For Power Supply Wiring	mm	Φ52	Φ52	Φ52	Φ52
Holes For Control Line Wiring	mm	Φ26	Φ26	Φ26	Φ26
Approximate Packing Measurement	m^3	–	–	–	–

Model		JVOH480VVER0AQ	JVOH500VVER0AQ	JVOH520VVER0AQ	JVOH540VVER0AQ
Combination		JVOH120VVER0AQ JVOH180VVER0AQ JVOH180VVER0AQ	JVOH140VVER0AQ JVOH180VVER0AQ JVOH180VVER0AQ	JVOH160VVER0AQ JVOH180VVER0AQ JVOH180VVER0AQ	JVOH180VVER0AQ JVOH180VVER0AQ JVOH180VVER0AQ
Power Supply		AC3Φ,220V/60Hz			
Nominal Cooling Capacity	kW	136.0	140.0	145.0	150.0
Nominal Heating Capacity	kW	150.0	155.0	160.0	165.0
Sound Pressure Level	dB	67	67	67	68
Cabinet Color		Ivory White			
Outer Dimensions(H×W×D)	mm	（1720×950×765 ）+（1720×1210×765）+（1720×1210×765）	（1720 × 1210 × 765 ）+（1720×1210×765 ）+（1720×1210×765 ）		
Net Weight	kg	873	925	940	945
Refrigerant Category		R410A			
Refrigerant Flow Control		Micro-computer Control Expansion Valve			
Compressor Model		E656DHD+E656DHD+E855DH+E656DHD+E855DH	E656DHD+E655DH+E656DHD+E855DH+E656DHD+E855DH	E656DHD+E655DH+E656DHD+E855DH+E656DHD+E855DH	E656DHD+E855DH+E656DHD+E855DH+E656DHD+E855DH
Compressor Quantity		1+1+1+1+1	1+1+1+1+1+1	1+1+1+1+1+1	1+1+1+1+1+1
Compressor Output(Pole)	kW	7.2(4)+6.0(4)+5.6(2)+6.0(4)+5.6(2)	4.8(4)+4.4(2)+6.0(4)+5.6(2)+6.0(4)+5.6(2)	6.0(4)+4.4(2)+6.0(4)+5.6(2)+6.0(4)+5.6(2)	6.0(4)+5.6(2)+6.0(4)+5.6(2)+6.0(4)+5.6(2)
Heat Exchanger		Multi-pass Cross-finned Tube			
Condenser Fan Quantity		3	3	3	3
Air Flow Rate	m^3/min	565	585	585	585
Motor Output(Pole)	kW	0.49(8)+0.66(8)+0.66(8)	0.66(8)+0.66(8)+0.66(8)	0.66(8)+0.66(8)+0.66(8)	0.66(8)+0.66(8)+0.66(8)
Refrigerant Piping		Flare-nut Connection(With Flare Nuts)			
Liquid Line	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05
Gas Line	mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Refrigerant Charge	kg	29.0	30.0	31.5	31.5
Holes For Power Supply Wiring	mm	Φ52	Φ52	Φ52	Φ52
Holes For Control Line Wiring	mm	Φ26	Φ26	Φ26	Φ26
Approximate Packing Measurement	m^3	–	–	–	–

NOTES: 1.The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
Indoor Air Inlet Temperature:27℃ DB(80℉ DB)
*1):19.5℃ WB (67℉ WB)
*2):19.0℃ WB (66.2℉ WB)
Outdoor Air Inlet Temperature: 35℃ DB(95℉ DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions
Indoor Air Inlet Temperature: 20℃ DB(68℉ DB)
Outdoor Air Inlet Temperature: 7℃ DB(45℉ DB)
6℃ WB(43℉ WB)

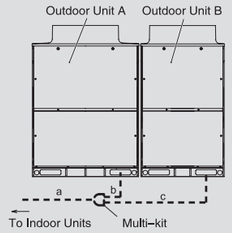
2.The sound pressure level is based on following conditions:
1.5 Meters from floor Level, and 1 Meters from the unit service cover surface.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

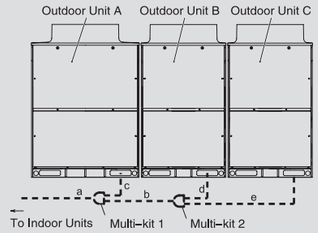
First Multi-kit

Outdoor Unit HP	8 and 10	12 to 16	18 to 24	26 to 54
Multi-kit	JE-102SN	JE-162SN	JE-242SN	JE-302SN

Piping Connection Kit (for combined system)

Outdoor Unit	JVOH200~240VVER0AQ	JVOH260~360VVER0AQ	JVOH380~420VVER0AQ	JVOH440~540VVER0AQ
Multi-kit 1			JM-30SNQ	JM-30SNQ
Multi-kit 2	JM-20SNQ	JM-30SNQ	JM-20SNQ	JM-30SNQ





First Multi-kit ~ Last Multi-kit

Total Indoor Unit HP	Lower than 6	6 to 8.99	9 to 11.99	12 to 15.99	16 to 17.99	18 to 25.99	26 to 35.99	Over 36
Gas (Φmm)	Φ15.88	Φ19.05	Φ22.2	Φ25.4	Φ28.6	Φ28.6	Φ31.75	Φ38.1
Liquid(Φmm)	Φ9.53	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ15.88	Φ19.05	Φ19.05
Multi-kit	JE-102SN			JE-162SN		JE-242SN	JE-302SN	

Last Multi-kit ~ Indoor Unit

Indoor Unit	Pipe Size（ φmm ）		Max. Liquid Pipe Length
	Gas Pipe	Liquid Pipe	
0.8HP~1.5HP	12.7	6.35	15
1.8HP~2.0HP	15.88	6.35*1	15
2.3HP~6.0HP	15.88	9.53	40
8HP	19.05	9.53	40
10HP	22.2	9.53	40

NOTES:

1. When liquid pipe length of indoor unit(0.8~2.0HP) is more than 15m, please change the liquid pipe dimension from Φ6.35 into Φ9.53.