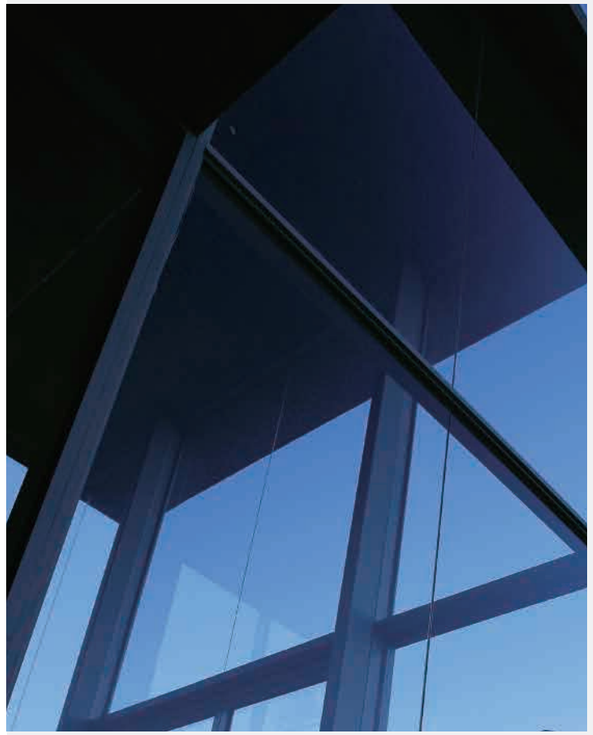
YORK®

INSTALL CONFIDENCE.



Efficient VRF R-410A 60Hz HEAT PUMP

JDOH 080 to 120 HSEF(R)0AQ

A complete range from 8hp to 12hp.

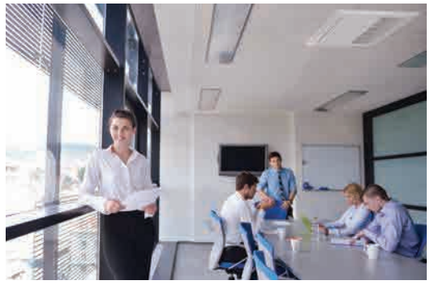
VRF Front Flow Series

YORK®

INSTALL CONFIDENCE.

SA2VYHAQH-161012

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 zone.

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,
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. Removal of a single panel provides easy access to all components: control boards, electrical connections, compressor and piping.

Gain control flexibility

Users can deploy from three basic control options.

- **Indoor fan coil units** come with a selection of thermostats, 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. Videos and webinars supplement classroom learning on specific subjects and refresh and enhance the skills of your sales, design, installation, and service teams. YORK ® VRF training programs help deliver peace of mind that your staff is prepared to support your business with the knowledge to compete in a growing industry.

Get the tools that give you an edge

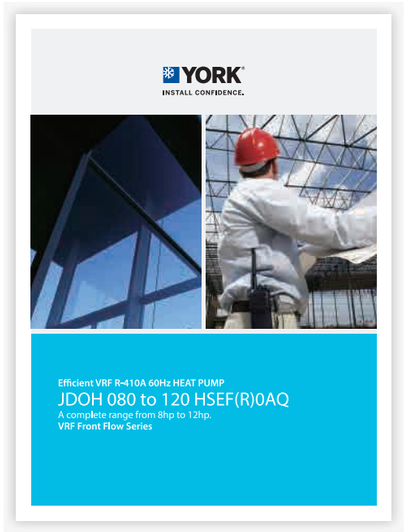
Right-size systems with intuitive selection software

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

PC-based program

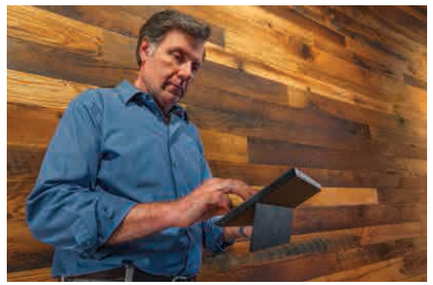
The PC-based program gives you mobility and flexibility. The software helps you:

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



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

Ample inventory and advanced order management and logistics systems can help you complete installations in a timely manner. Consistent service and predictable deliveries help you prevent delays waiting for essential components and enable you to set a project timeline and schedule labor efficiently. Fast and accurate parts delivery from our 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.
Indoor units for ducted or ductless applications offer optional motion sensing control for even greater energy savings. Multiple ventilation options help make sure your systems introduce the right volume of outside air. A host of options and accessories help ensure a custom fit for your project. And users benefit from our variety of control technology options.

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

YORK® VRF Front Flow Series is the first front-flow VRF air-conditioning with large capacity in the industry. In adhering to the leading technology in commercial air-conditioning, taking into account more and more requirements of small building space, the compact and light bodies of YORK® VRF Front Flow Series provide more convenient and good-looking air-conditioning solutions for customers, which saves more space.

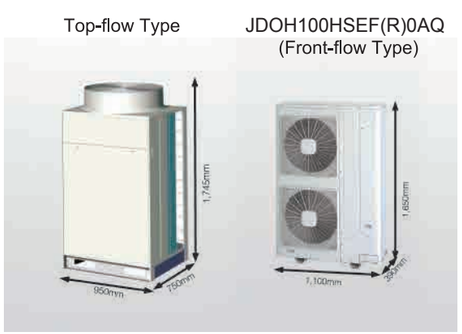
CONTENTS

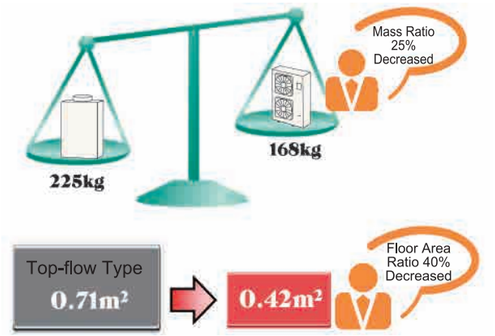
Features

- **Flexible to support a wide range of installation conditions at site.**
- **Easy transportation and delivery.**
- **Can be easily fit into the limited space.**

Top-class Compact and Light Weight Design

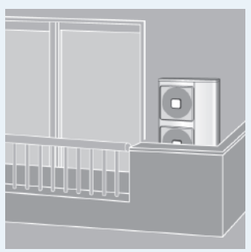
Transportation, facilitation and flexibility on installation are further advanced by adopting outdoor unit's light weight and compact design compared with the conventional top-flow model.



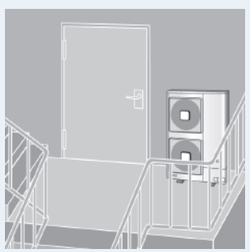


The compact design greatly improves flexibility in installation

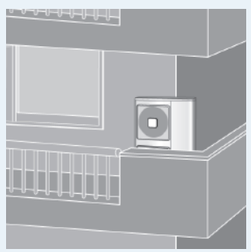
With a width of only 390 mm, the YORK® VRF JDOH can be installed on a staircase landing or balcony on each floor.



Balcony



Landing of outdoor staircase

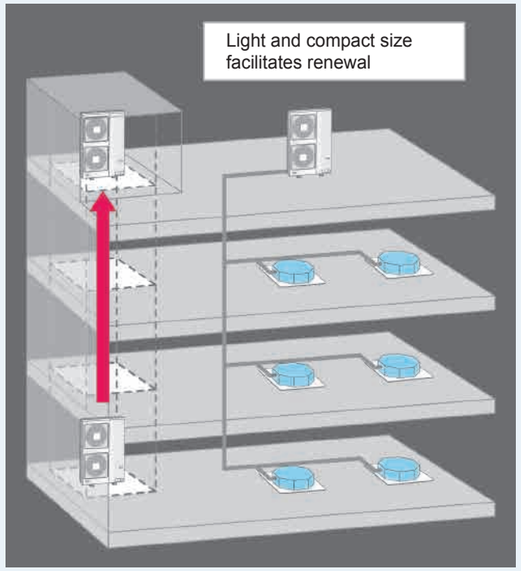


Under balcony eaves

Greater convenience during delivery and installation

- With compact size and light weight, the system can be easily brought with service elevator even in a small urban site.
- No crane is needed for delivery.

- Service elevator can be used for delivery.

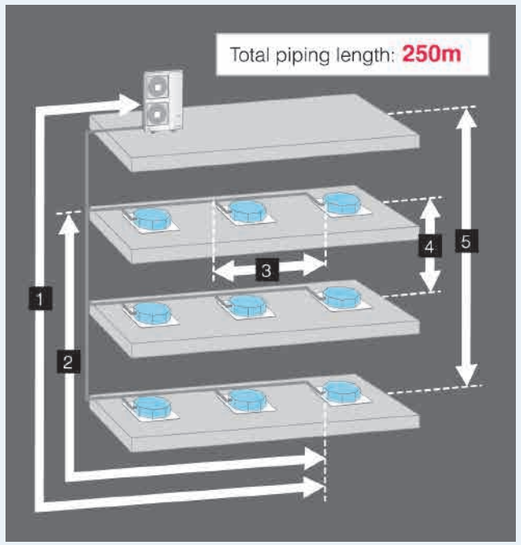


Long Piping Design

The piping can be designed and constructed up to a total piping length of 250m

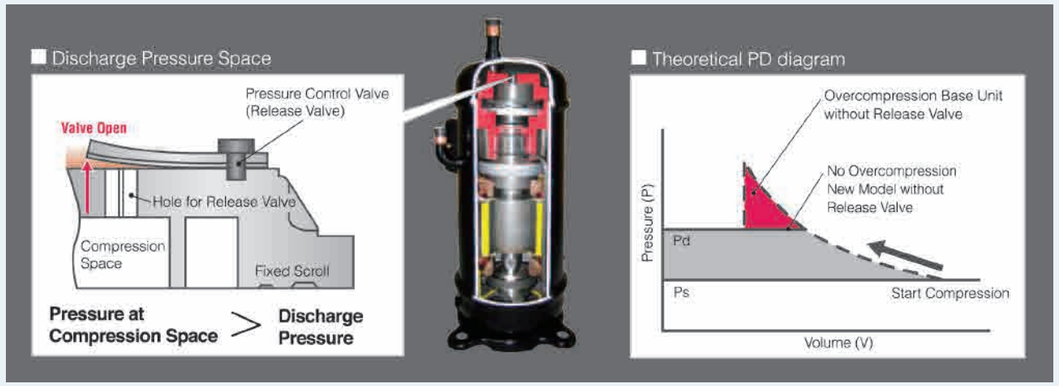
- The piping can be designed and constructed up to a maximum piping length of 100m.
(total piping lengh: 250m)

1. Piping length: **100**m(Equivalent length:125m)
2. Max. length after first branch: **40**m
3. Max. length after branch: **15**m
4. Height difference between indoor units: **15**m
5. Height difference
   Outdoor above indoor: **50**m
   Outdoor below indoor: **40**m



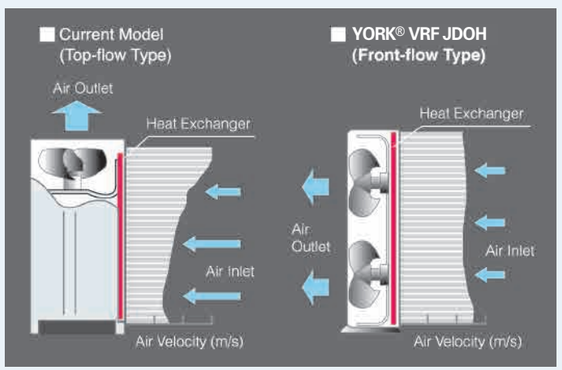
New Type DC Inverter Scroll Compressor

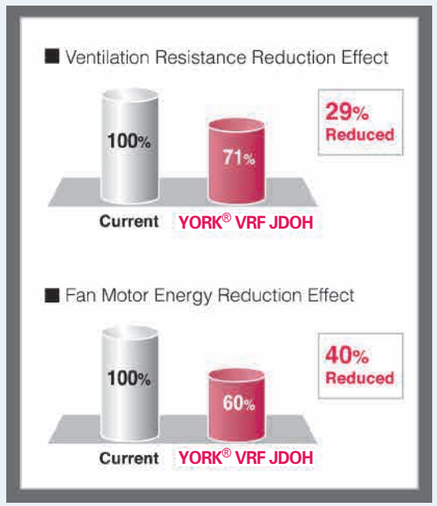
- **Improve part-load performance**
  The part-load performance can be significantly improved for energy saving by adopting release valve and optimizing orbiting scroll torque in the compressor cylinder.
- **Adopt release valve to prevent overcompression**
- **Optimize orbiting scroll torque to reduce leakage loss**



Technology to Improve Heat Exchanger Performance

Compared to the top-flow model, the front-flow model's airflow distributes more steadily because the airflow direction of the fan is same as heat exchanger. As a result, the heat exchanger performance is optimized and system energy is saved.



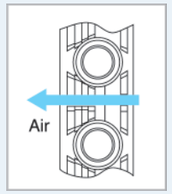


Noise Reduction Technology

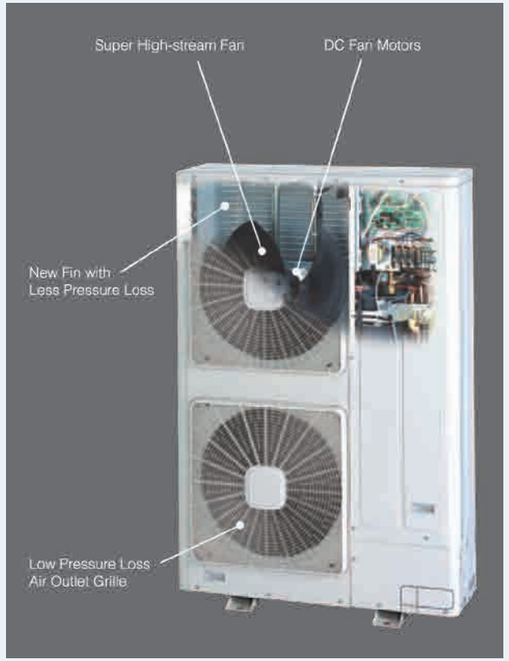
- **DC Fan Motor**
  The smooth rotating fan motor with low vibration reduces the noise generation.

- **Super High-stream Fan**
  Super High-stream fan of Φ544 mm cuts down the noise.

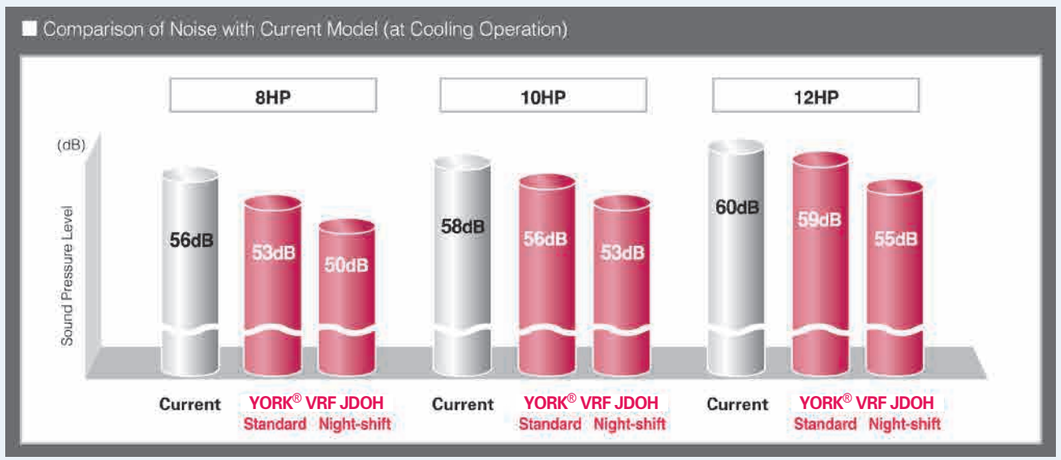
- **Low Pressure Loss Air Outlet Grille**
  The rib structure synchronized with rotation flow from the fan reduces the air resistance at the air outlet grille.



- **New Fin with Less Pressure Loss**
  The draft resistance is reduced by 20%. Both high-efficiency and low noise operation are simultaneously satisfied.

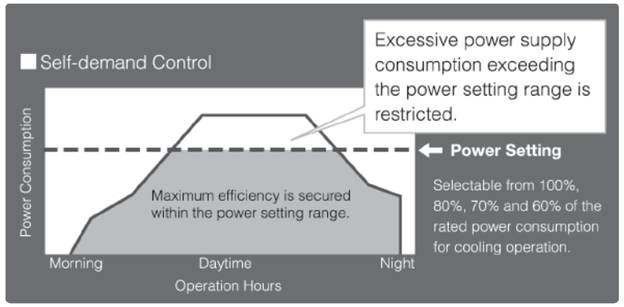


The industry-leading low noise outdoor unit is realized by adopting the new model fin with low pressure loss.



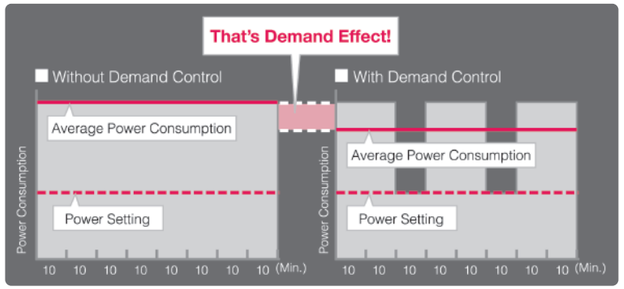
Self-demand Control

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



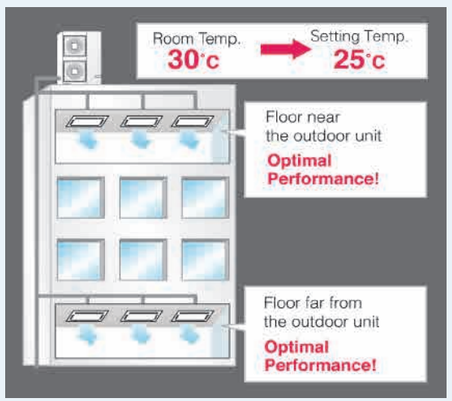
Wave Mode

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.

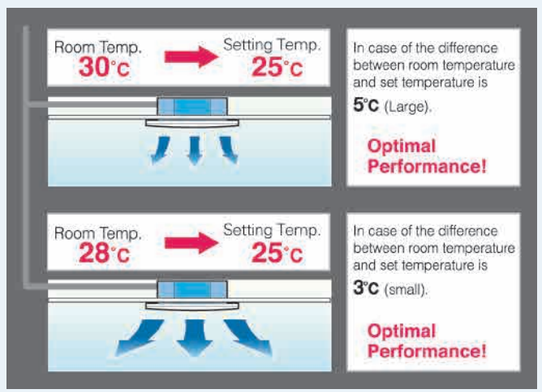


Smart Balance Control

The system performance is maintained at the same level regardless of the refrigerant pipe length.



The difference between room temperature and setting temperature is monitored quickly and the system will adjusted properly. Operation of energy-saving.

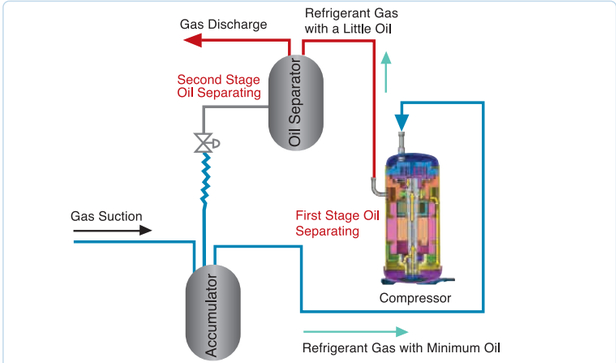


Leading Technology

With advanced technology, Front Flow series continue to provide unique product lines to meet the promoting clients' requirements from various respect.

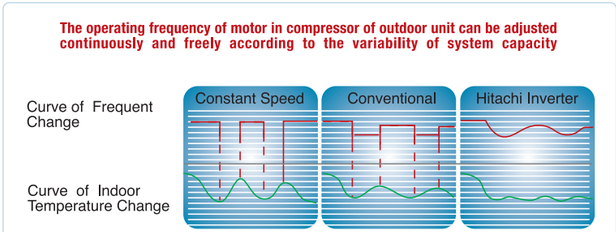
The 2-stages Oil Separating Technique

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.



The Precise Inverter Technique

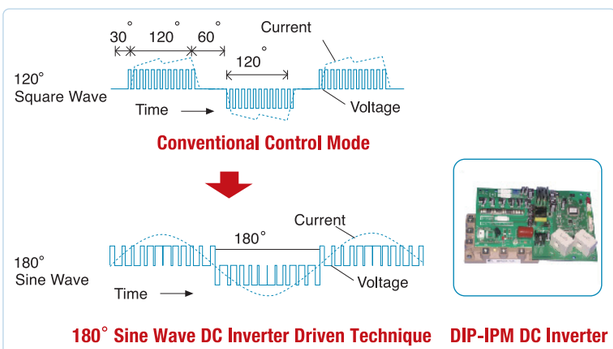
The operating speed of DC motor in compressor can be adjusted continuously and freely relating to the variability of system capacity and accurately with 1Hz increments. This technique combining with auto-adaptive control technique automatically adjusts capacity output according to actual air conditioning load in order to achieve a smoother curve of temperature change to satisfy higher requirements of coziness.



The Latest 180° Sine Wave DC Inverter Driven Technique

The application of advanced sensorless three phase vectoring control technique on permanent magnetism synchronous motor ensures the output current of DIP-IPM DC inverter to be a smooth sine wave curve, and accordingly enables motor to operate smoothly with efficiency dramatically increased. At the same time, both harmonic current and electromagnetic noise are suppressed.

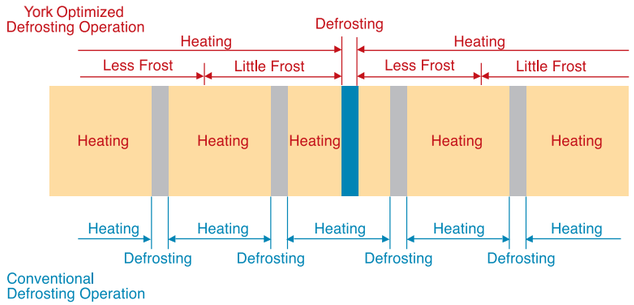
DIP-IPM inverter makes a significant improvement on heat emission. It achieves smaller thermal drift which reduces the impact on control precision and increases stability and lifespan of the air-conditioning system.



Intelligent Defrosting Techniques

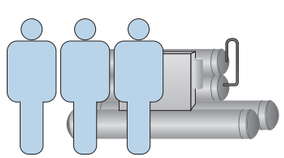
The outdoor unit adopts external temperature sensor and heat exchanger temperature sensor to conduct a parameter variable defrosting to control defrosting period accurately.

Frost is not frequently formed in winter which ensures small defrosting frequency and good heating effect.



Intelligent Operation, Unattended Maintenance

YORK® VRF is highly intelligentized and has no requirement for special equipping room, therefore can achieve unattended operation and much more flexible and convenient control.



Conventional air conditioning system requires special staff caring for maintenance

YORK® VRF system operates intelligently

Self-diagnosis Function Enables High-efficient Maintenance and Repairing.

Through remote control switch or 7-segment displays on outdoor units, self-diagnosing error code and information can be easily got to monitor the system operating status which makes both operation management and maintenance more convenient.

Alarm Code

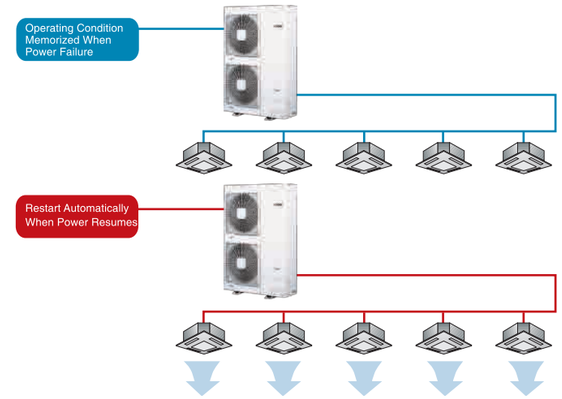
Code No.	Category	Content of Abnormality	Leading Cause
01	Indoor Unit	Tripping of protection device	Failure of fan motor, drain discharge PCB, relay
02	Outdoor Unit	Tripping of protection device	Activation of PSH
03	Transmission	Abnormality between indoor and outdoor(or indoor)	Incorrect wiring, failure of PCB, 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
...	...	...	...

Remote Control Switch

7-Segment Display

Automatic Restart Function

When power failure occurs, the operating condition is automatically memorized, when the power supply is recovered the system is started operation again automatically with all the same operating conditions such as operation mode, etc. It is not necessary for the system to be reset after the power resumes, which brings more intelligent and considerate service to users.



Wide-range Control System

Various Controllers

Wireless remote control switch, remote control switch, central station and 7-day timer etc. All indoor units and outdoor units can be connected into H-LINK system.

JCWB10NEWS
Remote Control Switch

JCWA10NEWQ
Wireless Remote Control Switch

JCRA10NEWQ
Half-size Remote Control Switch

JCSA10NEWS
Centralized ON/OFF Controller

JCOA111EWS

Central Station

Central Station mini

JCMA101EWS（AC 100V~240V）
CCM01（24V）

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.

Central Station EZ

JCTA121EWS（AC 100V~240V）
CCL01（24V）

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.

Product Range

Outdoor Units

Type	Model	8HP	10HP	12HP
Front Flow Series (R410A)	JDOH-HSEF(R)0AQ	●	●	●

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-H0NB0AQ	●	●	●	●	●	●	●	●							
In-the-ceiling (Slim Ducted)	JTDS-H0NB0AQ	●	●	●	●											
Four-Way Cassette	JTKF-H0PS0AQ		●	●	●	●	●	●	●	●	●	●	●	●		
Two-Way Cassette	JTKT-H0PS0AS	●	●		●		●		●	●		●	●	●		
High Wall	JTHW-H0NB0AQ	●	●	●	●	●	●	●								
Floor	JTFE-H0NB0AE		●		●											
Floor Concealed	JTFC-H0NB0AQ		●		●		●		●							

First Multi-kit

Multi-kit	8HP	10/12HP
	JE-102SN	JE-162SN

General Data

Outdoor Units

Model			JDOH080HSEF(R)0AQ	JDOH100HSEF(R)0AQ	JDOH120HSEF(R)0AQ
Power Supply			AC3Φ,380V/60Hz (220V/60Hz)		
Nominal Cooling Capacity*1)		kW	23.2	28.6	33.9
		Btu/h	79,200	97,600	115,700
Nominal Cooling Capacity*2)		kW	22.4	28.0	33.5
		Btu/h	76,400	95,500	114,300
Nominal Heating Capacity		kW	25.0	31.5	37.5
		Btu/h	85,300	107,500	12,800
Cabinet Color			Natural Gray (1.0Y 8.5/0.5)		
Sound Pressure Level (Overall A Scale) Cooling/Heating		dB	53/55	56/58	59/61
Outer Dimensions	H	mm	1,650	1,650	1,650
	W	mm	1,100	1,100	1,100
	D	mm	390	390	390
Net Weight		kg	168	168	171
Refrigerant Category			R410A		
Refrigerant Flow Control			Micro-Computer Control Expansion Valve		
Compressor Model			Hermetic (Scroll)		
			E656DHD	E656DHD	E656DHD
Compressor Quantity			1	1	1
Compressor Output (Pole)		kW	4.8(4)	6.0(4)	7.2(4)
Refrigerant oil type			FVC68D		
Refrigerant oil Charge		L/Unit	1.9	1.9	1.9
Heat Exchanger			Multi-Pass Cross-Finned Tube		
Condenser Fan			Propeller Fan		
Quantity			2	2	2
Air Flow Rate		m^3/min	121	150	163
Motor Output (Pole)		kW	0.17(8)x1+0.12(6)x1	0.17(8)x1+0.12(6)x1	0.17(8)x1+0.20(6)x1
Connections			Flare-Nut Connection(With Flare Nuts)		
Refrigerant Piping Liquid Line		mm	Φ9.53	Φ12.7	Φ12.7
		(in.)	(3/8)	(1/2)	(1/2)
Gas Line		mm	Φ19.05	Φ22.2	Φ25.4
		(in.)	(3/4)	(7/8)	(1)
Refrigerant Charge		kg	5.0	5.5	6.5
Approximate Packing Measurement		m^3	1.01	1.01	1.01

NOTES:

1.The nominal cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units, and are based on the standard JIS B8616.

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: 1.5 meters from floor level, and 1 meter from the unit service cover surface.

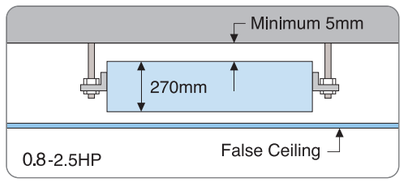
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

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

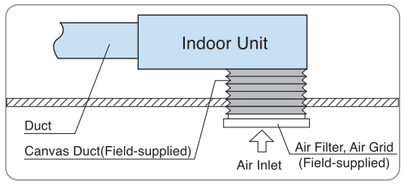
YORK® VRF -JTDL(M) Technique Features

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 supports a wide range of installation conditions at site



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 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*3)	
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
Outer Dimensions 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
Outer Dimensions 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:

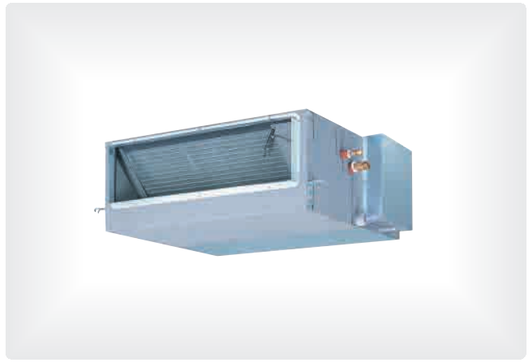
1.The nominal cooling capacity and heating capacity are based on following conditions:

Cooling Operation Conditions
Indoor Air Inlet Temperature:27℃ 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.1.5m 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.
4.*3):For the area that the power supply type is 380V/60Hz.

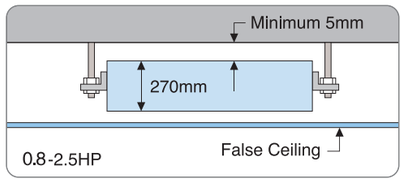
In-the-ceiling (Medium/High Static Ducted)



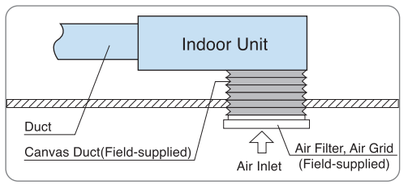
YORK® VRF -JTDM(H) Technique Features

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 supports a wide range of installation conditions at site



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

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	50(52)dB	
JTDH280H0NM(F)0AQ	52(54)dB	

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	JTDM224 H0NB0AQ	JTDM280 H0NB0AQ
Power Supply		AC1Φ,220V/60Hz													AC3Φ,380V/60Hz*3)		AC1Φ,220V/60Hz*4)	
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	22.4	28.0
	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	19,300	24,100
	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	76,500	95,600
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	23.2	28.6
	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	20,000	24,600
	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	79,200	97,600
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	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	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	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	52	54
Outer Dimensions H	mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470	470	470
Outer Dimensions 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	1250	1250
Outer Dimensions D	mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120	1120	1120
Net Weight	kg	26	26	26	26	35	35	35	35	46	46	46	58	58	96	104	118	118
	(lbs)	(57)	(57)	(57)	(57)	(77)	(77)	(77)	(77)	(101)	(101)	(101)	(128)	(128)	(211)	(238)	(259)	(259)
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	67	72
Motor Power	W	35	35	60	60	75	75	75	75	120	120	120	200	280	650	900	1100	1100
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)													Brazing		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	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)	(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	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)	(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	240	200
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	1.077	1.077

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)

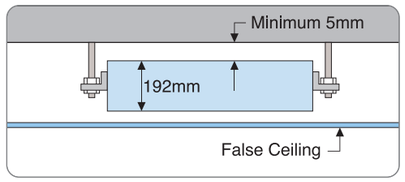
2.The sound pressure level is based on following conditions.1.5m beneath the unit.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.
3.The data for external pressure indicates standard pressure setting values when air filter is not used.
4.*3):For the area that the power supply type is 380V/60Hz.*4):For the area that the power supply type is 220V/60Hz.

In-the-ceiling (Compact Ducted)

YORK® VRF -JTDN Technique Features

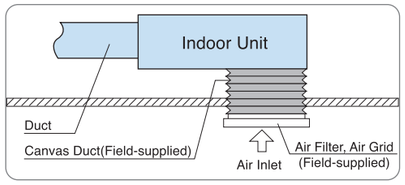
Installation Space-saving

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



Satisfy Varied Requests on Installation

Available air inlet as rear or bottom entry, consumers can choose relevant air inlet mode according to the practical installation space.



(Installation Diagram of Air Bottom Inlet)

Broad Range of External Static Pressure

10Pa (or 30Pa), flexibly supports a wide range of installation conditions at site, e.g. longer ducts and shorter ducts supplied.

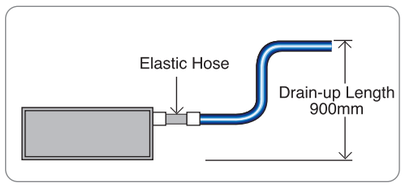
Quiet Operation

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:

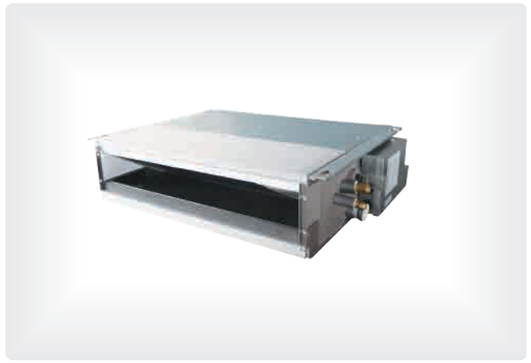
1.The nominal cooling capacity and heating capacity are based on following conditions:

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.
4.The figures between brackets [ ] are unique data for the models with metallic fan and fan casing.

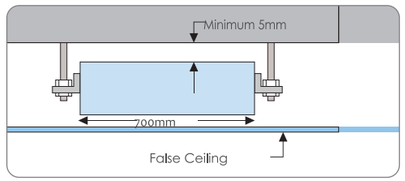
In-the-ceiling (Slim Ducted)



YORK® VRF -JTDS Technique Features

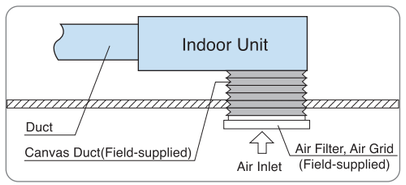
Installation Space-saving

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



Satisfy Varied Requests on Installation

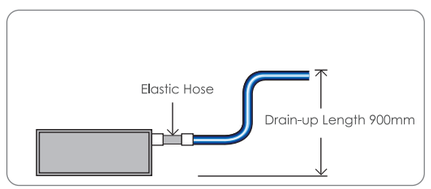
Available air inlet as rear or bottom entry, consumers can choose relevant air inlet mode according bo the practical installation space.



(Installation Diagram of Air Bottom Inlet)

Drain-up Mechanism as Standard Part

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



Broad Range of External Static Pressure

10Pa (or 30Pa), flexibly supports a wide range of installation conditions at site, e.g. longer ducts and shorter ducts supplied.

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
Outer Dimensions W	mm	700	700	700	700
Outer Dimensions 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.
4.The figures between brackets [ ] are unique data for the models with steel fan and fan casing.

Four-Way Cassette

YORK® VRF -JTKF Technique Features

Extremely Quiet Operation

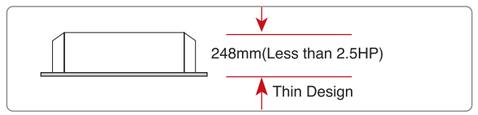
By employing a super-high-stream turbo fan (Three-dimensional twisted wing large bore and high efficiency), the wind flow efficiency has been improved. With the under damping slit mounted near the center of the revolving shaft, the abnormal noise which is unique to DC motors caused by the number of magnetic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

Unified Panel Sizes

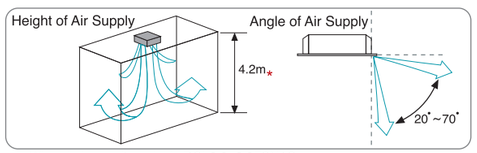
Panel sizes are unified to a 950mm square, neat and elegance, and well harmonized with decoration.

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



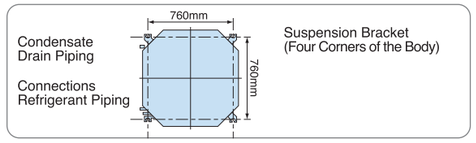
* When indoor unit model is RCI-3.0~6.0FSN1Q.
When indoor unit model is RCI-1.0~2.5FSN1Q, the value is 3.5m.

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.

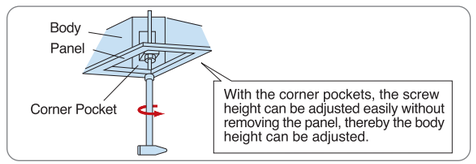
Flexible Refrigerant Piping

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.

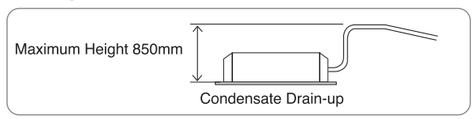


Body height easily adjustable in the corner pockets

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:

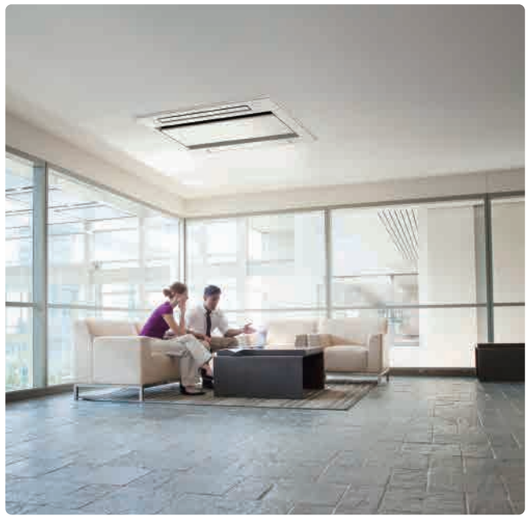
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB (80°F DB)
*1): 19.5°C WB (67°F WB)
*2): 19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

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)

Piping Length: 7.5 Meters Piping Lift: 0 Meter

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.

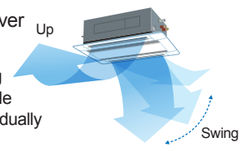
New Design & High Performance Air Panel

● 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 / Φ12.7				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 meter beneath the unit and 1 meter from the 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

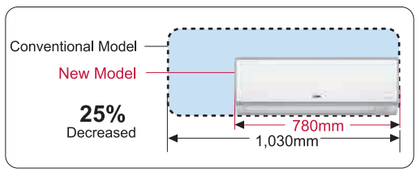
YORK® VRF -JTH(C)W Technique Features

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	41/38/36	42/39/35	42/39/35	45/42/39
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	8.5/7.5/6.5	8.5/7.5/6.5	9.2/7.5/6.5	10/8.5/7.5	12/10.3/8.7	12/10.3/8.7	13.7/12/10.3
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 meter beneath the unit and 1 meter from the 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 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.

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.

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	16	25	40	50
Connections		Flare-Nut Connection (With Flare Nuts)					
Liquid / Gas	mm	Φ 6.35 / Φ 12.7				Φ 6.35 / Φ 15.88	Φ 9.53 / Φ 15.88
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.

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Indoor Units

4-Way Cassette Type

Model	JTKF028~160H0PS0AQ1
Air-Panel	JP-N23NAQ
Wireless Controller Receiver	JR4A11NEWQ

2-Way Cassette Type

Model	JTKT022~080H0PS0AS	JTKT112~160H0PS0AS
Air-Panel	JP-AP90DNA	JP-AP160DNA
Receiver Kit for Wireless Control	JR2A10NEWS	

In-the-Ceiling Types (Low/High Static Pressure)

Model	JTDL022~071H0NB0AQ JTDM022~071H0NB0AQ	JTDL084~160H0NB0AQ JTDH084~160H0NB0AQ
Drain Pump	JDUPI-132CQ	JDUPI-162Q
Wireless Controller Receiver	JRDA10NEWQ	

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