

DC Inverter-driven
YORK® Variable Refrigerant Flow Systems
JVOHQ Series for commercial applications

YORK® Brand Introduction



**DC Inverter-driven
YORK® Variable Refrigerant Flow Systems
JVOHQ Series for commercial applications**

A century of innovation

Established in 1874 in York, Pennsylvania, YORK® has helped our customers meet their temperature control needs for over a century. Now a Johnson Controls brand, YORK® continues to benefit customers through research that has gone on to claim several significant firsts in design and innovation. Johnson Controls is able to provide our customers with the best temperature control solutions available around the world today.

Pioneer in inverter technology

Our customers can be assured that they will enjoy the benefits of the latest technology when they choose a Johnson Controls product, as YORK® has always been at the forefront of adopting new technologies for their offerings. From being the first to offer a low pressure VSD unit in 1979 to introducing the inverter technology in the 21st century, YORK® has demonstrated its pioneering spirit.

Leader in reliability

When constructing products, YORK® places our customers' needs as the top priority of our design process. Our inverter VRF units are produced using state-of-the-art lean manufacturing techniques, and rigorous quality testing is implemented at every step of the manufacturing process, before they are shipped to customers.

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**Inverter-driven
Air-cooled Screw Chiller**



**Inverter-driven
Water-cooled Screw Chiller**

The leader in VSD technology

Driving innovation
for more than a century



**DC Inverter-driven Multi-zone System
JFOHQ Series**



**Magnetic Bearing
Variable Speed Centrifugal Chiller**





Outdoor Units



YORK® VRF systems pursue energy savings throughout the entire system while achieving comfort for each and every individual. From offices, restaurants, hotels and other public spaces to private residences, we offer a product line-up to suit a diverse range of conditions.



Outdoor units overview

Series	JVOHQ				Series
Summary	For large scale buildings - Connectable indoor units: up to 64 Great performance - EER 4.50 / COP 4.90 Great design flexibility - Wide operation range for cooling: up to 52 degrees - Better piping limit: level difference between ODU & IDU: up to 110m - ODU external static pressure: up to 80Pa				Summary
Appearance					Appearance
	Single Unit	Two Units	Three Units	Four Units	
3 HP					3 HP
3.5 HP					3.5 HP
4 HP					4 HP
4.5 HP					4.5 HP
5 HP					5 HP
6 HP					6 HP
6.5 HP					6.5 HP
7 HP					7 HP
8 HP	●				8 HP
9 HP					9 HP
10 HP	●				10 HP
11 HP					11 HP
12 HP	●				12 HP
14 HP	●				14 HP
16 HP	●				16 HP
18 HP	●				18 HP
20 HP	●				20 HP
22 HP	●				22 HP
24 HP	●				24 HP
26 HP		●			26 HP
28 HP		●			28 HP
30 HP		●			30 HP
32 HP		●			32 HP
34 HP		●			34 HP
36 HP		●			36 HP
38 HP		●			38 HP
40 HP		●			40 HP
42 HP		●			42 HP
44 HP		●			44 HP
46 HP		●			46 HP
48 HP		●			48 HP
50 HP			●		50 HP
52 HP			●		52 HP
54 HP			●		54 HP
56 HP			●		56 HP
58 HP			●		58 HP
60 HP			●		60 HP
62 HP			●		62 HP
64 HP			●		64 HP
66 HP			●		66 HP
68 HP			●		68 HP
70 HP			●		70 HP
72 HP			●		72 HP
74 HP				●	74 HP
76 HP				●	76 HP
78 HP				●	78 HP
80 HP				●	80 HP
82 HP				●	82 HP
84 HP				●	84 HP
86 HP				●	86 HP
88 HP				●	88 HP
90 HP				●	90 HP
92 HP				●	92 HP
94 HP				●	94 HP
96 HP				●	96 HP

JVOHQ Series

Single Unit

8HP Class / JVOH080VPEMBQ / 22.4kW / 25.0kW / 225kg
 10HP Class / JVOH100VPEMBQ / 28.0kW / 31.5kW / 226kg
 12HP Class / JVOH120VPEMBQ / 33.5kW / 37.5kW / 248kg
 14HP Class / JVOH140VPEMBQ / 40.0kW / 45.0kW / 308kg
 16HP Class / JVOH160VPEMBQ / 45.0kW / 50.0kW / 310kg
 18HP Class / JVOH180VPEMBQ / 50.0kW / 56.0kW / 356kg
 20HP Class / JVOH200VPEMBQ / 56.0kW / 63.0kW / 390kg
 22HP Class / JVOH220VPEMBQ / 61.5kW / 69.0kW / 415kg
 24HP Class / JVOH240VPEMBQ / 68.0kW / 75.0kW / 416kg

Three Units

50HP Class / JVOH500VAEMBQ / 140.0kW / 156.0kW / 976kg
 52HP Class / JVOH520VAEMBQ / 146.0kW / 163.0kW / 1010kg
 54HP Class / JVOH540VAEMBQ / 151.5kW / 169.0kW / 1035kg
 56HP Class / JVOH560VAEMBQ / 158.0kW / 175.0kW / 1036kg
 58HP Class / JVOH580VAEMBQ / 163.0kW / 181.0kW / 1082kg
 60HP Class / JVOH600VAEMBQ / 169.0kW / 188.0kW / 1116kg
 62HP Class / JVOH620VAEMBQ / 174.5kW / 194.0kW / 1141kg
 64HP Class / JVOH640VAEMBQ / 181.0kW / 200.0kW / 1142kg
 66HP Class / JVOH660VAEMBQ / 186.0kW / 206.0kW / 1188kg
 68HP Class / JVOH680VAEMBQ / 192.0kW / 213.0kW / 1222kg
 70HP Class / JVOH700VAEMBQ / 197.5kW / 219.0kW / 1247kg
 72HP Class / JVOH720VAEMBQ / 204.0kW / 225.0kW / 1248kg

(HP Class / Model Name / Cooling Capacity / Heating Capacity / Weight)

Two Units

26HP Class / JVOH260VAEMBQ / 73.0kW / 81.5kW / 536kg
 28HP Class / JVOH280VAEMBQ / 78.5kW / 87.5kW / 558kg
 30HP Class / JVOH300VAEMBQ / 85.0kW / 95.0kW / 618kg
 32HP Class / JVOH320VAEMBQ / 90.0kW / 100.0kW / 620kg
 34HP Class / JVOH340VAEMBQ / 95.0kW / 106.0kW / 666kg
 36HP Class / JVOH360VAEMBQ / 101.0kW / 113.0kW / 700kg
 38HP Class / JVOH380VAEMBQ / 106.5kW / 119.0kW / 725kg
 40HP Class / JVOH400VAEMBQ / 113.0kW / 125.0kW / 726kg
 42HP Class / JVOH420VAEMBQ / 118.0kW / 131.0kW / 772kg
 44HP Class / JVOH440VAEMBQ / 124.0kW / 138.0kW / 806kg
 46HP Class / JVOH460VAEMBQ / 129.5kW / 144.0kW / 831kg
 48HP Class / JVOH480VAEMBQ / 136.0kW / 150.0kW / 832kg

Four Units

74HP Class / JVOH740VAEMBQ / 208.0kW / 231.0kW / 1392kg
 76HP Class / JVOH760VAEMBQ / 214.0kW / 238.0kW / 1426kg
 78HP Class / JVOH780VAEMBQ / 219.5kW / 244.0kW / 1451kg
 80HP Class / JVOH800VAEMBQ / 224.0kW / 252.0kW / 1560kg
 82HP Class / JVOH820VAEMBQ / 229.5kW / 258.0kW / 1585kg
 84HP Class / JVOH840VAEMBQ / 236.0kW / 264.0kW / 1586kg
 86HP Class / JVOH860VAEMBQ / 241.5kW / 270.0kW / 1611kg
 88HP Class / JVOH880VAEMBQ / 248.0kW / 276.0kW / 1612kg
 90HP Class / JVOH900VAEMBQ / 253.5kW / 282.0kW / 1637kg
 92HP Class / JVOH920VAEMBQ / 260.0kW / 288.0kW / 1638kg
 94HP Class / JVOH940VAEMBQ / 265.5kW / 294.0kW / 1663kg
 96HP Class / JVOH960VAEMBQ / 272.0kW / 300.0kW / 1664kg

JVOHQ Series





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- 09 The new line-up
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Higher performance

- 11 Higher in both EER and COP
- 12 Compressor
 - Greater capacity control
- 13 Fan power
- 14 Heat exchanger

Design flexibility

- 15 Reduced installation space and weight
 - Easy transportation
- 16 Piping flexibility
 - A wider range of external static pressure

Adaptability

- 17 Up to 52°C ambient temperature for cooling running
 - As low as -20°C ambient temperature for heating running
- 18 Excellent compressor control
- 19 Low noise operation
 - Noise reduction mode
- 20 Load distribution by rotating the order of operation
 - Emergency operation during breakdown also enabled

Comfort

- 21 Smart defrosting

Specifications

- 22 8~18 HP
- 23 20~24 HP
- 24 26~34 HP
- 25 36~48 HP
- 26 50~58 HP
- 27 60~72 HP
- 28 74~84 HP

Specifications & accessories

- 29 86~96 HP
- 30 Piping connection kit
 - Multi kit

Line-up overview

The new line-up

The JVOHQ Series is newly launched with a wide range of models in its line-up, as well as a variety of performance enhancements in design, power and economy. Select the product(s) most suitable for your application, either as a single unit or a combination of single units.

(HP Class / Model Name / Cooling Capacity / Heating Capacity / Weight)



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Summary table

Item		Unit	JVOHQ Series
Capacity	HP class		8 - 96
	Nominal cooling	kW	22.4 - 272.0
	Nominal heating	kW	25.0 - 300.0
Connectable indoor unit quantity			13 - 64
Combination capacity ratio between ODU and IDU		%	50 - 130
Maximum piping length	Total piping length		m
	Refrigerant piping length	Actual	m
		Equivalent	m
	Between piping connection kit and each outdoor unit		m
	Between 1st branch multi kit and farthest indoor unit		m
	Between multi kit and each indoor unit		m
Maximum level difference	Between outdoor units (combination of base units)		m
	Between outdoor unit and indoor units	ODU above IDU *	m
		IDU above ODU	m
	Between indoor units		m
Cooling operation range **		°C DB	-5 to 52
Heating operation range **		°C WB	-20 to 15

*Concerning maximum level difference between ODU and IDU (ODU above IDU), Standard: up to 50m/Custom Order: up to 110m. Longer piping (up to 110m) is available for 8-54HP models only.
 Maximum level difference for 56-96HP models is 90m.

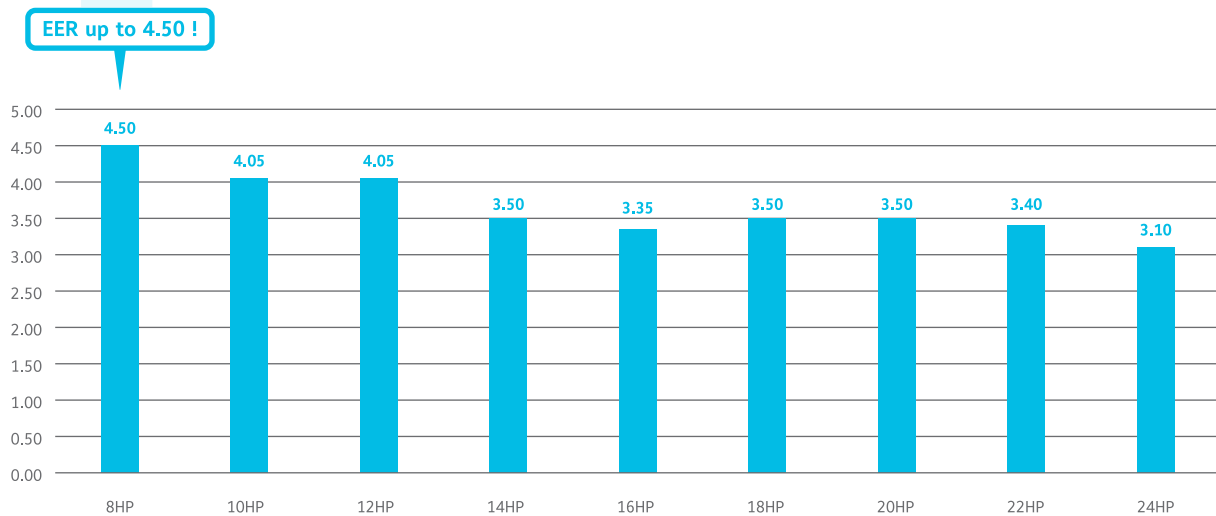
**For more details, please consult your distributors.

Higher performance

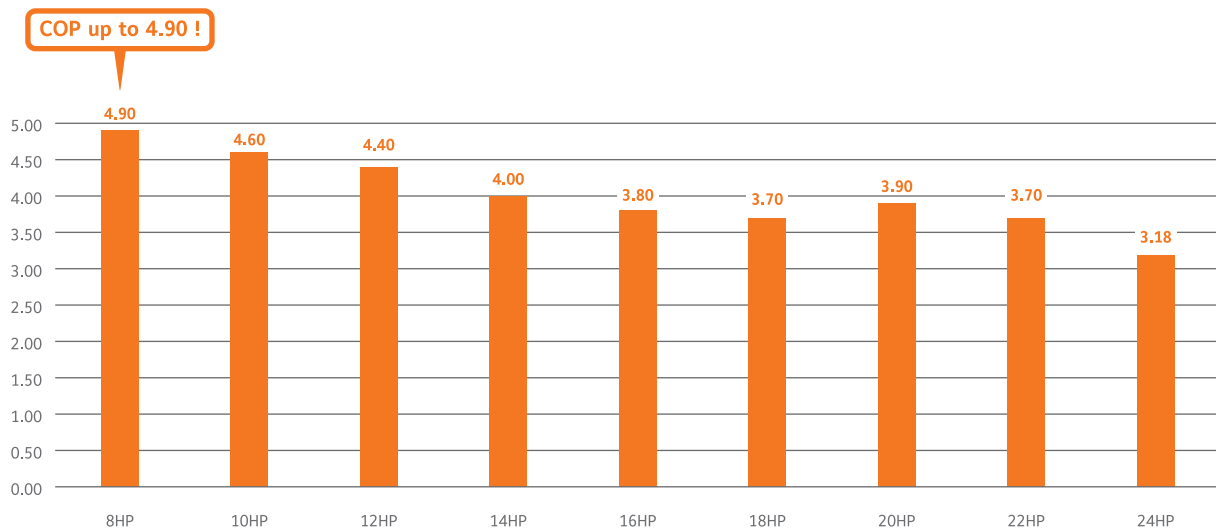
Higher in both EER and COP

The JVOHQ Series line-up offers greater energy efficiency and a higher coefficient of performance compared with the previous Series, reducing its environmental impact while being easier on the wallet.

Cooling EER



Heating COP



Note:

1. The cooling and the heating performances are the values when combined with our test indoor units.

Cooling operation conditions:

- Indoor air inlet temperature: 27°C DB 19°C WB
- Outdoor air inlet temperature: 35°C DB
- Pipe length: 7.5m

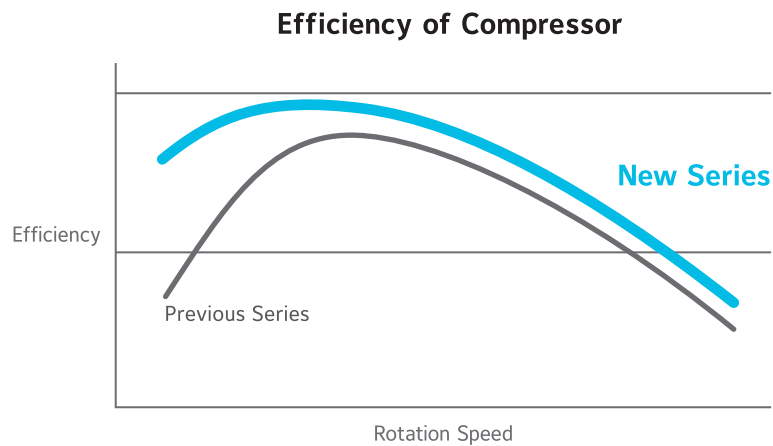
Heating operation conditions:

- Indoor air inlet temperature: 20°C DB
- Outdoor air inlet temperature: 7°C DB, 6°C WB
- Pipe lift: 0m



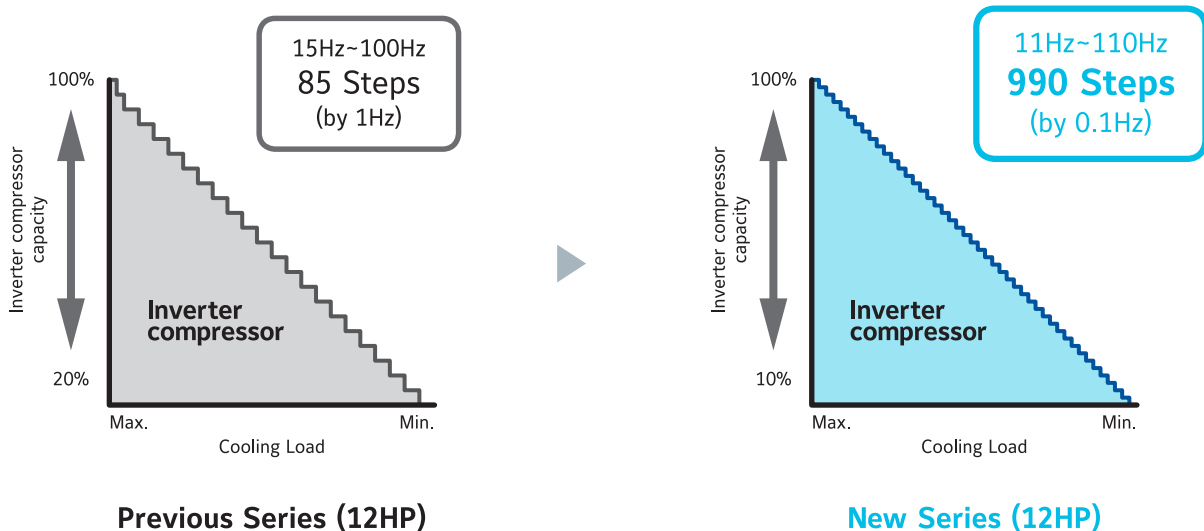
Compressor

By improving the oil distribution system to the compressor, we have optimized the oil flow rate and extended the operating range during low-speed operation.



Greater capacity control

Highly improved performance as well as greater energy savings are achieved by adopting a newly developed, high-efficiency DC inverter compressor with extremely accurate control technology of inverter frequency in 0.1Hz increments. Another feature is the dramatically extended working range achieved by expanding the compressor's operating frequency band, both upwards and downwards.



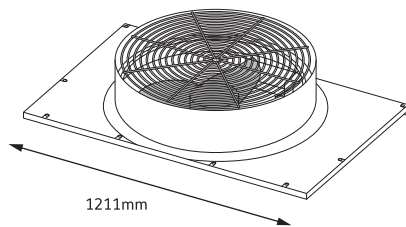
Higher performance

Fan power

The long bell-mouth structure creates smooth airflow and reduces fan input by introducing a multi-stage enhanced structure.

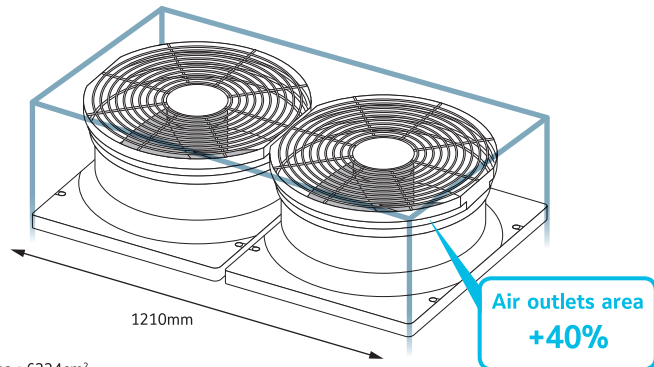
Expansion of air outlets

Previous Series



Air volume area : 4403cm²

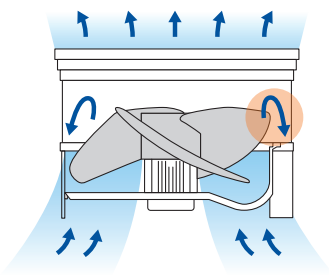
New Series



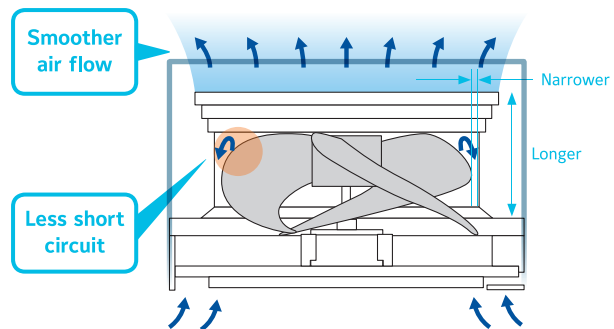
Air volume area : 6334cm²

Improvement in bell-mouth

Previous Series



New Series



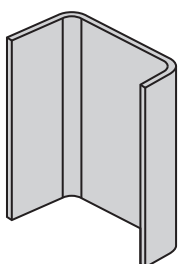
- Improvement of airflow volume by 23% (single unit)
- Energy consumption in the driving shaft has decreased by 20% on average

Heat exchanger

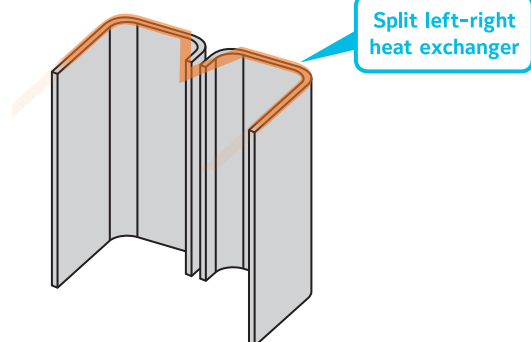
A dual-fan structure has been introduced to improve efficiency during low load operation. The Σ shaped heat exchanger maximizes the effect of the dual-fan structure for better energy savings.

New shape

Previous Series

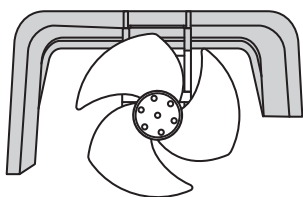


New Series

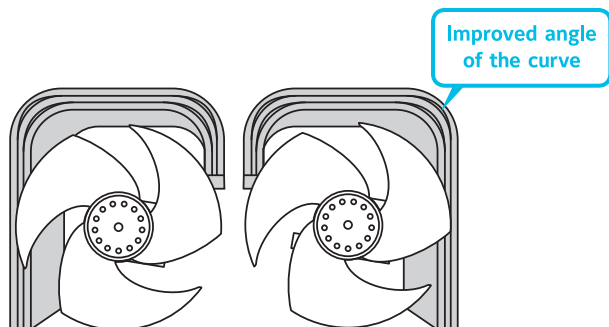


New angle

Previous Series



New Series







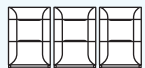

- Heat exchange area has been increased by more than 10% (single unit)
- Greater heat exchange efficiency

Design flexibility

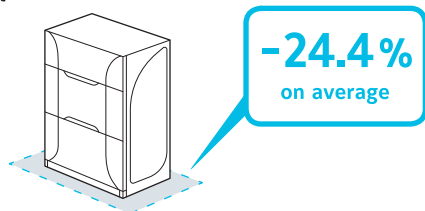
Reduced installation space and weight

Compared with the previous Series, the outdoor unit line-up has expanded while the capacity per unit has increased and the unit count in combinations decreased. As a result, we have reduced the amount of construction work involved in connecting outdoor units, decreased the installation footprint and lightened unit weight.

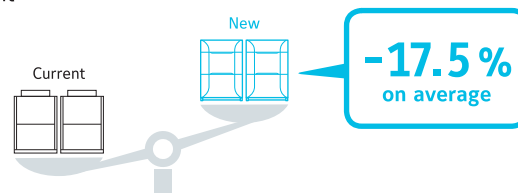
Combination comparison of outdoor unit

HP Class	20 to 24	38 to 48	56 to 72	74 to 96
Cooling Capacity (kW)	56.0 to 68.0	106.5 to 136.0	158.0 to 204.0	208.0 to 272.0
Previous Series (FSN6Q)	 Two Units	 Three Units	—	—
New Series (JVOHQ) New	 Single Unit	 Two Units	 Three Units	 Four Units

Footprint

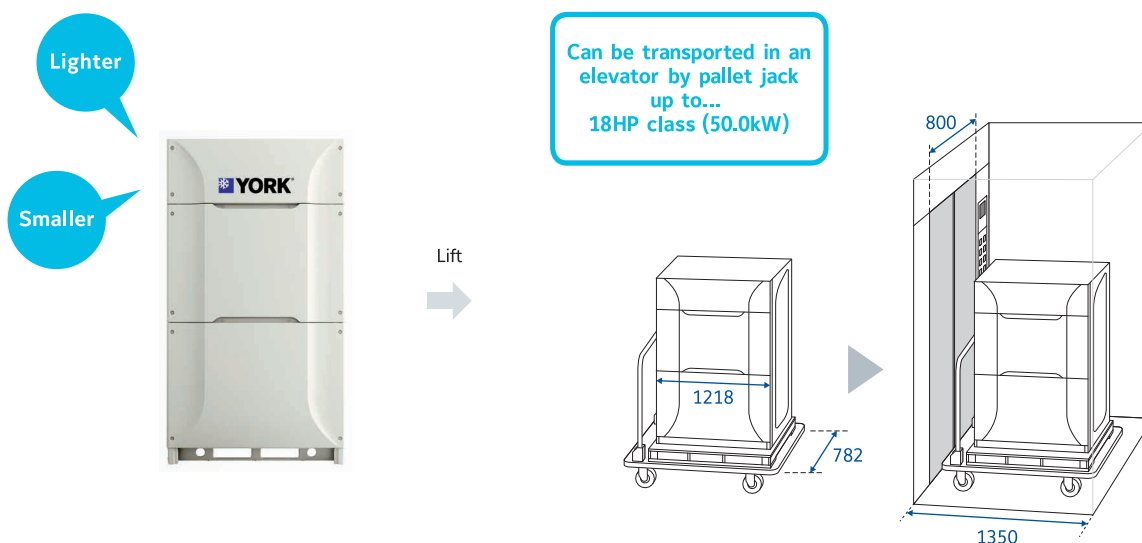


Weight



Easy transportation

Outdoor unit transportation has been made easier by the reduction in installation space (footprint) and more lightweight units.



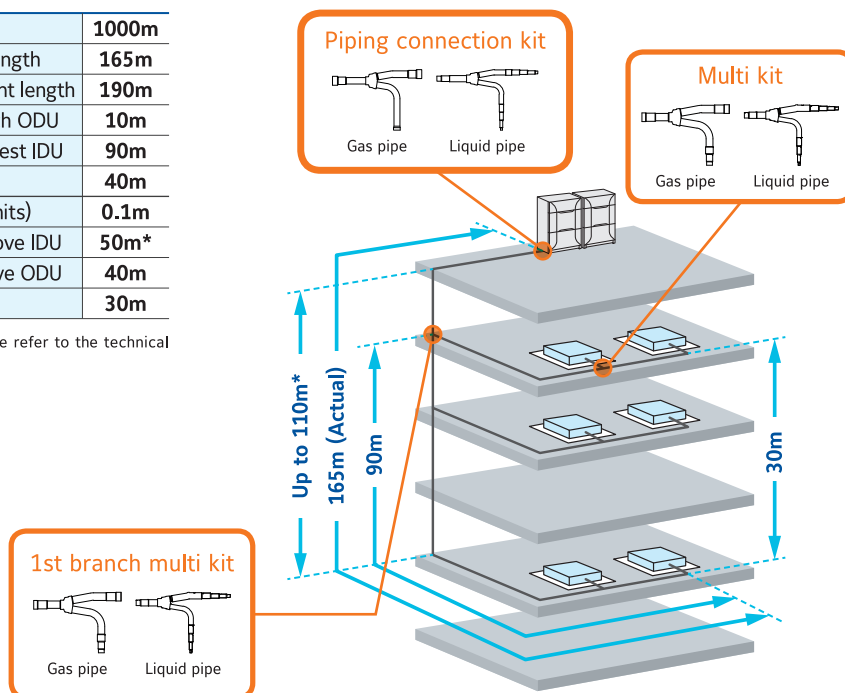
Piping flexibility

Longer and more flexible piping has been realized. This helps in dealing with various piping restrictions.

Maximum piping length	Maximum total piping length		1000m
	Maximum refrigerant piping length	Actual length	165m
		Equivalent length	190m
	Between piping connection kit and each ODU		10m
	Between 1st branch multi kit and farthest IDU		90m
	Between multi kit and each IDU		40m
Maximum level difference	Between ODUs (combination of base units)		0.1m
	Between ODU and IDU	ODU above IDU	50m*
		IDU above ODU	40m
	Between IDUs		30m

Each maximum length or level difference has several conditions, please refer to the technical documents in inquiry.

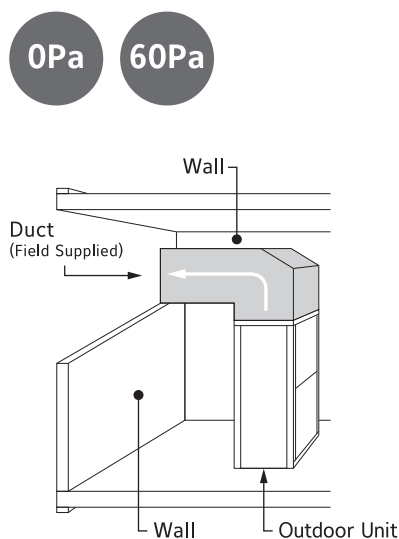
*:Standard: up to 50m/Custom Order: up to 110m.
Longer piping (up to 110m) is available for 8-54HP models only.
Maximum level difference for 56-96HP models is 90m.



A wider range of external static pressure

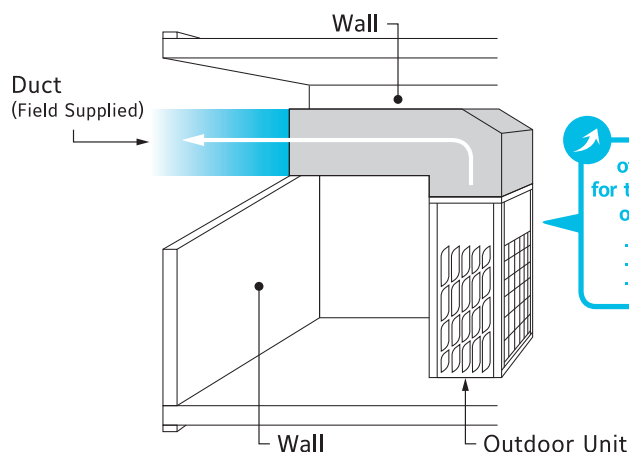
The new JVOHQ Series offers four ESP options. This enables more options for the outdoor unit to be installed inside the building, which contributes to reducing the piping length as well as the cost of installation.

Previous Series



New Series

4 options available



offers more options for the indoor installation of the outdoor unit

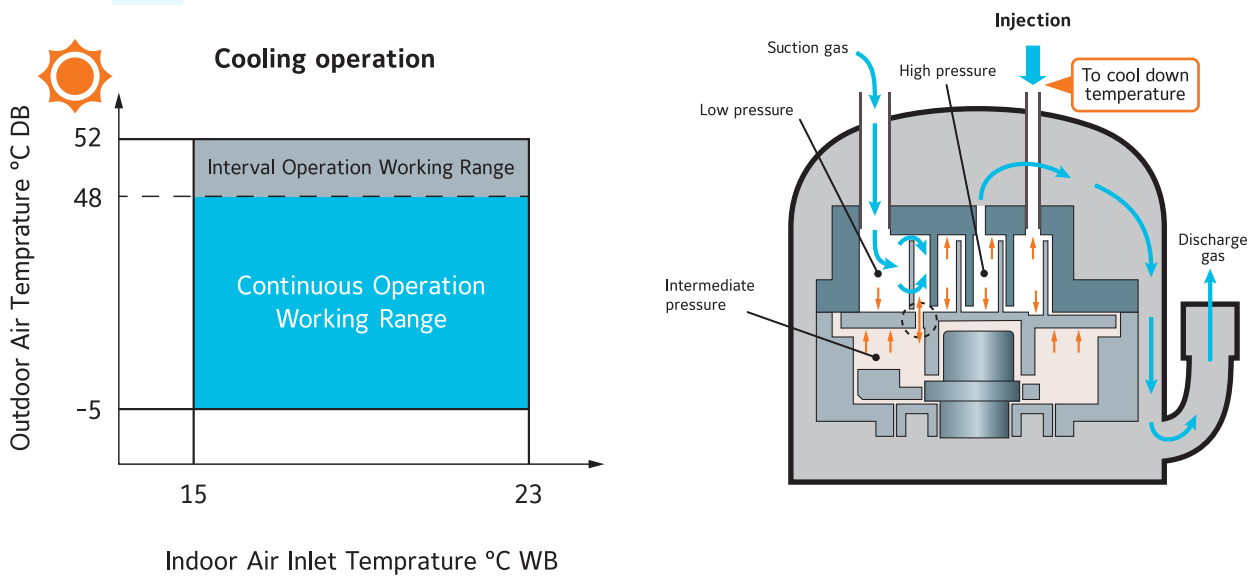
- Less piping length
- Lower installation cost
- Visual aesthetics

Adaptability

Up to 52°C ambient temperature for cooling running

- Up to 48°C stable running
- Up to 52°C interval running

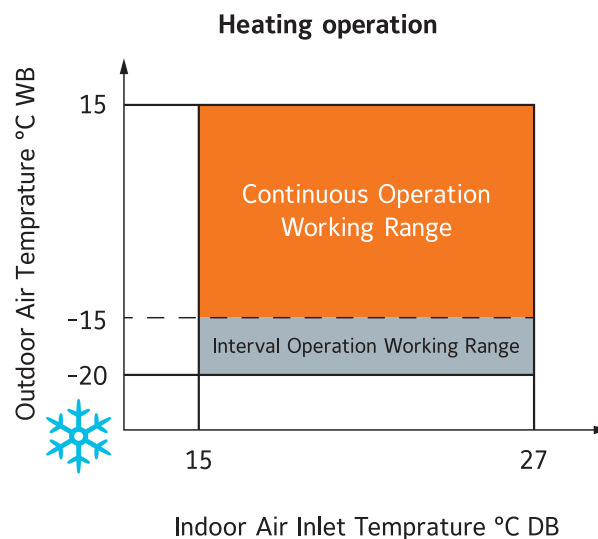
A special liquid injection technology for compressors is adopted to cool down the discharge gas temperature. Owing to a simple structure without a tip-seal or thrust bearing, this technology assures stable operation under high ambient temperature conditions.



As low as -20°C ambient temperature for heating running

- As low as -20°C stable running

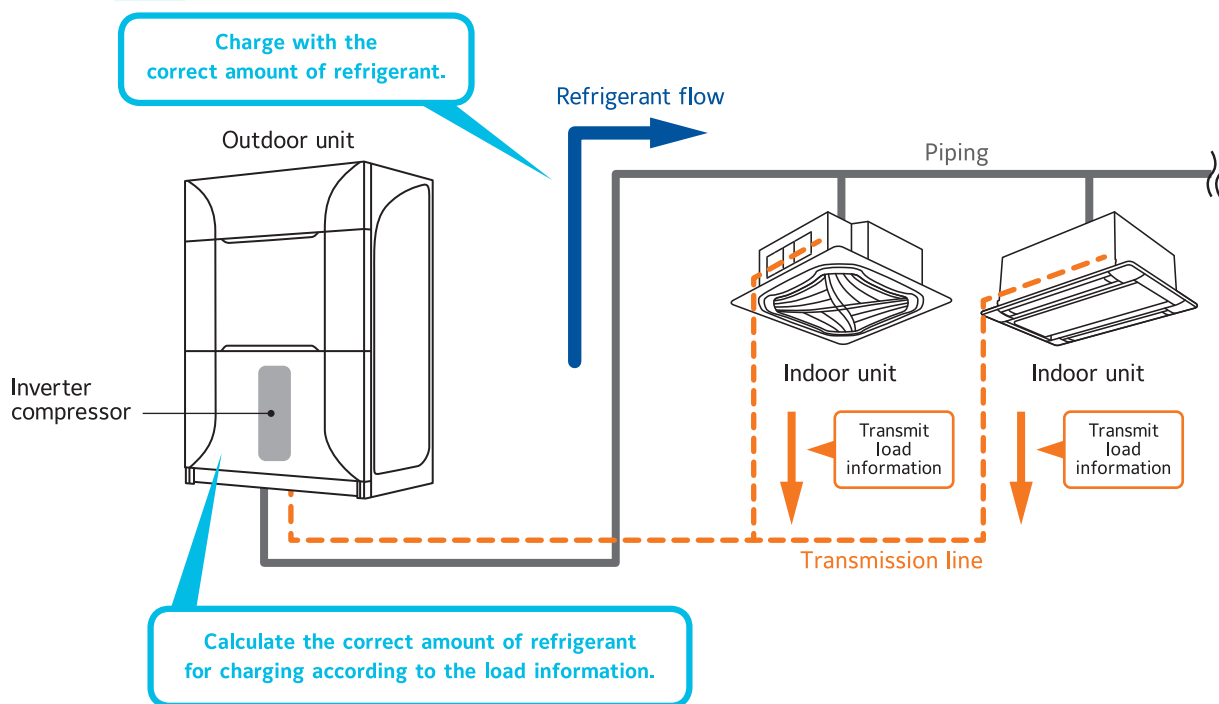
Special 3-row coil design (12-24HP) and larger area of coil enhance heating capability. EVI strong heating technology is also adopted. This enables heating as low as -20°C ambient condition even in cold regions.



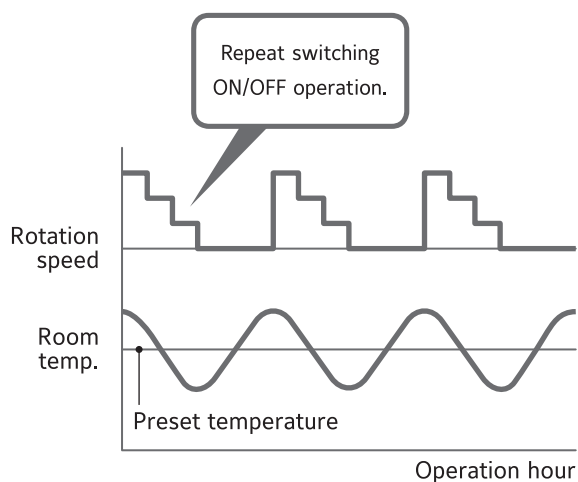
Excellent compressor control

The amount of refrigerant from the outdoor unit is optimally controlled based on required load information from each indoor unit. This helps attain a stable room temperature while saving energy by enabling smooth compressor operation with reduced ON/OFF switching during low load operation.

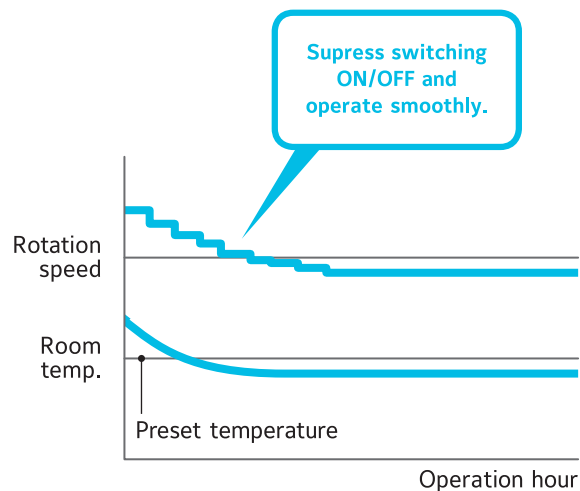
Smooth Compressor Operation



Previous Series



New Series

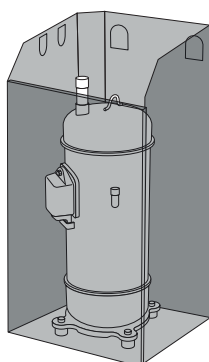


Adaptability

Low noise operation

New metal shielding cover for compressor:

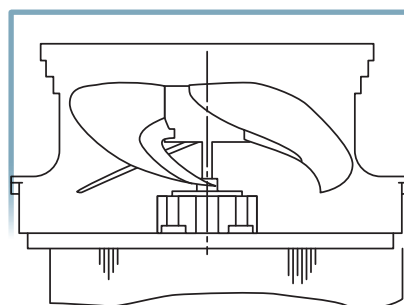
The model is louder than conventional models due to the adoption of a compact high-speed compressor. However, by using new compressor covers, the sound pressure level can be reduced by as much as 2dB(A).



New Cover

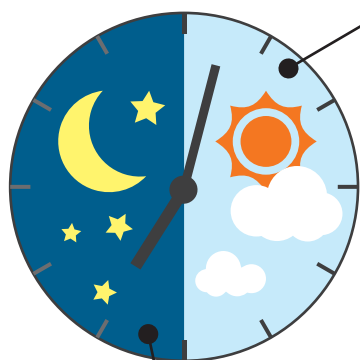
New air blower to suppress fan noise:

The air blower has a new structure and is located above the heat exchanger, so that noise on the reverse side can be suppressed.



New Cover

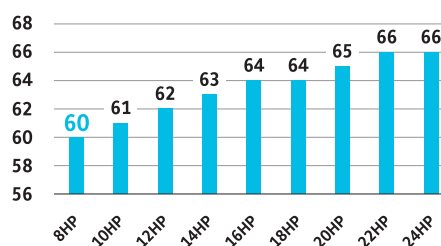
Noise reduction mode



Capacity priority mode (standard)

The system runs per capacity requirement; meanwhile, both compressor and fan speeds are adjusted to lower the noise.

Noise pressure <dB(A)>



Silent night mode (optional)

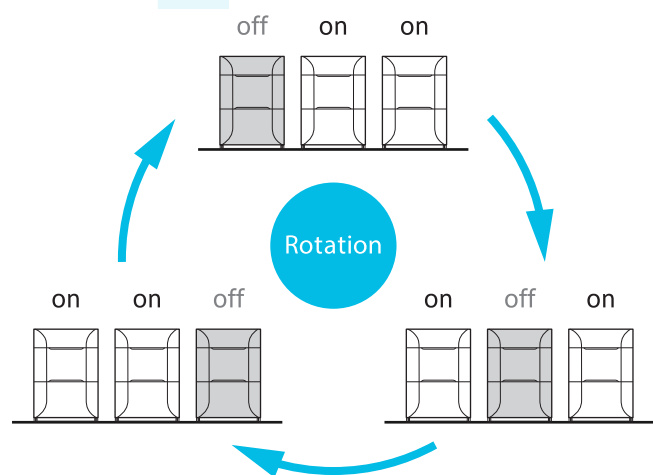
With the optional night mode setting, when the ambient temperature is 30°C or below in a cooling operation, the rotation speeds of the compressor and the outdoor fan are automatically reduced. When night mode is activated, noise can be decreased by 14~20dB(A) compared with normal operation.

Notes:

Night mode is recommended when cooling capacity has a sufficient margin against cooling load, and when it is essential to lower operating noise at night.

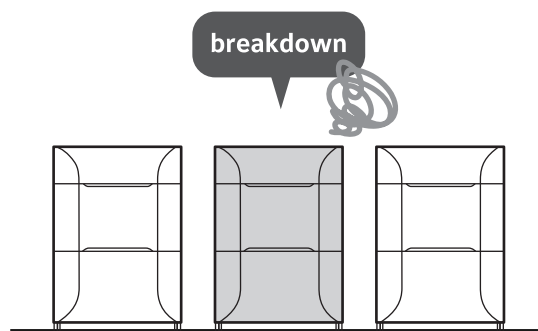
Load distribution by rotating the order of operation

The running time of the individual outdoor units is standardized and their load distributed by rotating the order of operation of the outdoor unit compressors.



Emergency operation during breakdown

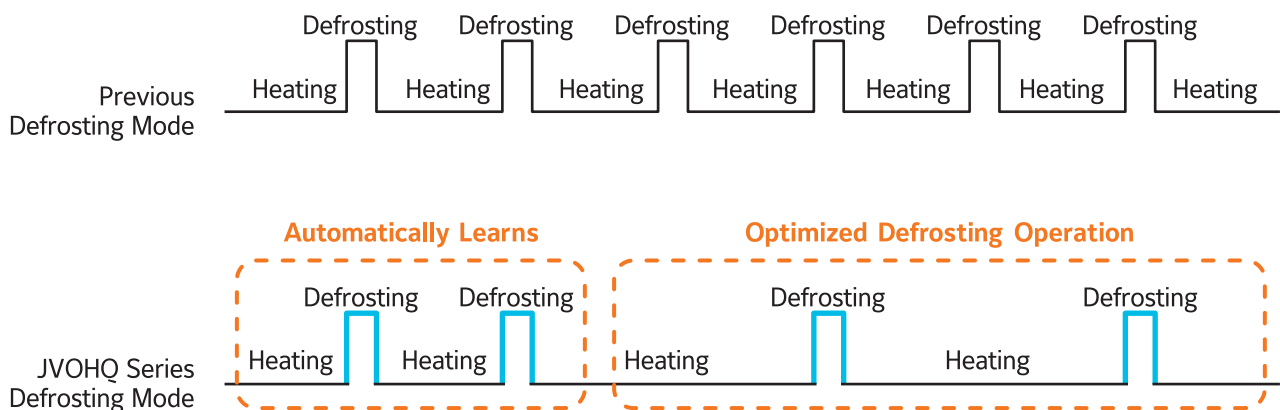
Full introduction of backup operation function. If one outdoor unit should fail, the system can continue to operate using the remaining outdoor units, thereby preventing total system failure.



Comfort

Smart defrosting

Frost on the outdoor unit's heat exchanger reduces heating capability. Defrosting is, therefore, essential, although there is no heating in a defrosting operation. Intelligent defrosting technology automatically learns the operating data of the previous defrosting cycle and detects power data of the fan motor. From these data it determines the optimal operation of the next defrosting cycle, thereby helping to reduce the frequency of defrosting while enhancing the comfort level and heating capacity.



Specifications



HP Class			8	10	12	14	16	18
Model Name			JVOH080VPEMBQ	JVOH100VPEMBQ	JVOH120VPEMBQ	JVOH140VPEMBQ	JVOH160VPEMBQ	JVOH180VPEMBQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Heating	kW	25.0	31.5	37.5	45.0	50.0	56.0
Power Input	Cooling	kW	4.98	6.91	8.27	11.43	13.43	14.93
	Heating	kW	5.10	6.85	8.52	11.25	13.16	15.14
Air Flow Rate	Standard	m³/min	165	170	190	239	256	256
Dimensions	H×W×D	mm	1725×958×782	1725×958×782	1725×958×782	1725×1218×782	1725×1218×782	1725×1218×782
Weight	Net	kg	225	226	248	308	310	356
Footprint Area		m²	0.75	0.75	0.75	0.95	0.95	0.95
Packaging Volume		m³	1.62	1.62	1.62	2.03	2.03	2.03
Compressor Type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	5	5	7.2	8.9	9.9	10.7
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	6.00	6.00	6.00	6.90	6.90	7.90
Number of Fan Motors			1	1	1	2	2	2
Capacity Ratio of IDU/ODU			%	50-130	50-130	50-130	50-130	50-130
Noise	Anechoic	dB(A)	57	58	59	60	61	61
	Semi-anechoic	dB(A)	60	61	62	63	64	64
Piping	Liquid	mm	φ 9.52	φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 15.88
	Gas	mm	φ 19.05	φ 22.2	φ 25.4	φ 25.4	φ 28.58	φ 28.58
Current	Max	A	17.0	23.0	27.0	31.5	35.5	43.5
	Breaker	A	25	32	32	40	50	50
	Cooling	A	8.5	11.8	14.0	18.9	22.1	25.2
	Heating	A	8.7	11.7	14.5	18.5	21.6	25.5
Efficiency	EER	W/W	4.50	4.05	4.05	3.50	3.35	3.35
	COP	W/W	4.90	4.60	4.40	4.00	3.80	3.70
Max IDU Connect Qty.			13	16	19	23	26	26
Working Temp. Range	Cooling		Stable Work at -5°C~48°C DB and Interval at 48°C~52°C DB					
	Heating		Stable Work at -20°C~15°C WB					
Refrigerant Control Mode Electronic Expansion Valve			Microcomputer-controlled Electronic Expansion Valve					
Tubing Connection Method			Welding Connection					
Maximum Piping Length	Total Piping Length		m	1000				
	Refrigerant Piping Length	Actual	m	165				
		Equivalent	m	190				
	Between Piping Connection Kit and Each ODU		m	10				
	Between 1st Branch Multi Kit and Farthest IDU		m	90				
	Between Multi Kit and Each IDU		m	40				
Maximum Level Difference	Between ODUs (Combination of Base Units)		m	0.1				
	Between ODU and IDU	ODU above IDU*	m	50 (Standard) up to 110 (Custom Order)				
		IDU above ODU	m	40				
	Between IDUs		m	30				

Note:

1. Cooling and heating performances are the values when combined with our test indoor units.

Cooling Operation Conditions:

Indoor Air Inlet Temperature: 27°C DB 19°C WB

Outdoor Air Inlet Temperature: 35°C DB

Piping Length: 7.5m

Piping Lift: 0m

Heating Operation Conditions:

Indoor Air Inlet Temperature: 20°C DB

Outdoor Air Inlet Temperature: 7°C DB 6°C WB

Piping Length: 7.5m

Piping Lift: 0m

2. Sound pressure is based on the following conditions. 1m from the unit service cover surface, and 1.36m from floor level. The above data is base on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in an semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

*: Standard: up to 50m/Custom Order: up to 110m. Longer piping (up to 110m) is available for 8-54HP models only. Maximum level difference for 56-96HP models is 90m.

Specifications



HP Class			20	22	24
Model Name			JVOH200VPEMBQ	JVOH220VPEMBQ	JVOH240VPEMBQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	56.0	61.5	68.0
	Heating	kW	63.0	69.0	75.0
Power Input	Cooling	kW	16.00	18.09	21.94
	Heating	kW	16.15	18.65	23.5
Air Flow Rate	Standard	m³/min	329	329	348
Dimensions	H×W×D	mm	1725×1608×782	1725×1608×782	1725×1608×782
Weight	Net	kg	390	415	416
Footprint Area		m²	1.26	1.26	1.26
Packaging Volume		m³	2.67	2.67	2.67
Compressor Type			Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A
	Charge Amount	kg	11.3	11.3	12.6
Refrigerant Oil	Model		FV68H	FV68H	FV68H
	Charge Amount	L	8.40	8.40	8.40
Number of Fan Motors			2	2	2
Capacity Ratio of IDU/ODU		%	50-130	50-130	50-130
Noise	Anechoic	dB(A)	62	63	63
	Semi-anechoic	dB(A)	65	66	66
Piping	Liquid	mm	φ 15.88	φ 15.88	φ 15.88
	Gas	mm	φ 28.58	φ 28.58	φ 28.58
Current	Max	A	45.0	52.0	61.5
	Breaker	A	63	63	80
	Cooling	A	26.9	30.1	36.5
	Heating	A	27.4	31.0	39.3
Efficiency	EER	W/W	3.50	3.40	3.10
	COP	W/W	3.90	3.70	3.18
Max IDU Connect Qty.			33	36	40
Working Temp. Range	Cooling		Stable Work at -5°C~48°C DB and Interval at 48°C~52°C DB		
	Heating		Stable Work at -20°C~15°C WB		
Refrigerant Control Mode Electronic Expansion Valve			Microcomputer-controlled Electronic Expansion Valve		
Tubing Connection Method			Welding Connection		
Maximum Piping Length	Total Piping Length		m	1000	
	Refrigerant Piping Length	Actual	m	165	
		Equivalent	m	190	
	Between Piping Connection Kit and Each ODU		m	10	
	Between 1st Branch Multi Kit and Farthest IDU		m	90	
	Between Multi Kit and Each IDU		m	40	
Maximum Level Difference	Between ODUs (Combination of Base Units)		m	0.1	
	Between ODU and IDU	ODU above IDU*	m	50 (Standard) up to 110 (Custom Order)	
		IDU above ODU	m	40	
	Between IDUs		m	30	



HP Class				26	28	30	32	34
Combination of Single Module Units				10+16	12+16	14+16	16+16	16+18
Model Name				JVOH260VAEMBQ	JVOH280VAEMBQ	JVOH300VAEMBQ	JVOH320VAEMBQ	JVOH340VAEMBQ
Power Supply		V/Ph/Hz		380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW		73.0	78.5	85.0	90.0	95.0
	Heating	kW		81.5	87.5	95.0	100.0	106.0
Power Input	Cooling	kW		20.34	21.70	24.86	26.86	28.36
	Heating	kW		20.01	21.68	24.41	26.31	28.30
Air Flow Rate	Standard	m ³ /min		426	446	495	512	512
Dimensions	H×W×D	mm		1725×2196×782	1725×2196×782	1725×2456×782	1725×2456×782	1725×2456×782
Weight	Net	kg		226+310	248+310	308+310	310+310	310+356
Footprint Area		m ²		0.75 + 0.95	0.75+0.95	0.95+0.95	0.95+0.95	0.95+0.95
Packaging Volume		m ³		1.62 + 2.03	1.62+2.03	2.03+2.03	2.03+2.03	2.03+2.03
Compressor Type				Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg		14.9	17.1	18.8	19.8	20.6
Refrigerant Oil	Model			FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L		12.90	12.90	13.80	13.80	14.80
Number of Fan Motors				3	3	4	4	4
Capacity Ratio of IDU/ODU				%	50-130	50-130	50-130	50-130
Noise	Anechoic	dB(A)		63	63	64	64	64
	Semi-anechoic	dB(A)		66	66	67	67	67
Piping	Liquid	mm		φ 19.05	φ 19.05	φ 19.05	φ 19.05	φ 19.05
	Gas	mm		φ 31.75	φ 31.75	φ 31.75	φ 31.75	φ 31.75
Current	Max	A		23+35.5	27+35.5	31.5+35.5	35.5+35.5	35.5+43.5
	Breaker	A		32+50	32+50	40+50	50+50	50+50
	Cooling	A		11.8+22.1	14+22.1	18.9+22.1	22.1+22.1	22.1+25.2
	Heating	A		11.7+21.6	14.5+21.6	18.5+21.6	21.6+21.6	21.6+25.5
Efficiency	EER	W/W		3.59	3.62	3.42	3.35	3.35
	COP	W/W		4.07	4.04	3.89	3.80	3.75
Max IDU Connect Qty.				43	47	50	53	56
Working Temp. Range	Cooling			Stable Work at -5°C~48°C DB and Interval at 48°C~52°C DB				
	Heating			Stable Work at -20°C~15°C WB				
Refrigerant Control Mode Electronic Expansion Valve				Microcomputer-controlled Electronic Expansion Valve				
Tubing Connection Method				Welding Connection				
Maximum Piping Length	Total Piping Length		m	1000				
	Regrigerant Piping Length	Actual	m	165				
		Equivalent	m	190				
	Between Piping Connection Kit and Each ODU		m	10				
	Between 1st Branch Multi Kit and Farthest IDU		m	90				
	Between Multi Kit and Each IDU		m	40				
Maximum Level Difference	Between ODUs (Combination of Base Units)		m	0.1				
	Between ODU and IDU	ODU above IDU*	m	50 (Standard) up to 110 (Custom Order)				
		IDU above ODU	m	40				
	Between IDUs		m	30				

Note:

- Cooling and heating performances are the values when combined with our test indoor units.

Cooling Operation Conditions:

Indoor Air Inlet Temperature: 27°C DB 19°C WB

Outdoor Air Inlet Temperature: 35°C DB

Piping Length: 7.5m

Piping Lift: 0m

Heating Operation Conditions:

Indoor Air Inlet Temperature: 20°C DB

Outdoor Air Inlet Temperature: 7°C DB 6°C WB

Piping Length: 7.5m

Piping Lift: 0m

- Sound pressure is based on the following conditions. 1m from the unit service cover surface, and 1.36m from floor level. The above data is base on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in an semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

*: Standard: up to 50m/Custom Order: up to 110m. Longer piping (up to 110m) is available for 8-54HP models only. Maximum level difference for 56-96HP models is 90m.

Specifications



HP Class			36	38	40	42	44	46	48
Combination of Single Module Units			16+20	16+22	16+24	18+24	20+24	22+24	24+24
Model Name			JVOH360VAEMBQ	JVOH380VAEMBQ	JVOH400VAEMBQ	JVOH420VAEMBQ	JVOH440VAEMBQ	JVOH460VAEMBQ	JVOH480VAEMBQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	101.0	106.5	113.0	118.0	124.0	129.5	136.0
	Heating	kW	113.0	119.0	125.0	131.0	138.0	144.0	150.0
Power Input	Cooling	kW	29.43	31.52	35.37	36.87	37.94	40.03	43.88
	Heating	kW	29.31	31.81	36.74	38.72	39.73	42.23	47.16
Air Flow Rate	Standard	m³/min	585	585	604	604	677	677	696
Dimensions	H×W×D	mm	1725×2846×782	1725×2846×782	1725×2846×782	1725×2846×782	1725×3236×782	1725×3236×782	1725×3236×782
Weight	Net	kg	310+390	310+415	310+416	356+416	390+416	415+416	416+416
	Footprint Area	m²	0.95+1.26	0.95+1.26	0.95+1.26	0.95+1.26	1.26+1.26	1.26+1.26	1.26+1.26
Packaging Volume		m³	2.03+2.67	2.03+2.67	2.03+2.67	2.03+2.67	2.67+2.67	2.67+2.67	2.67+2.67
Compressor Type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	21.2	21.2	22.5	23.3	23.9	23.9	25.2
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	15.30	15.30	15.30	16.30	16.80	16.80	16.80
Number of Fan Motors			4	4	4	4	4	4	4
Capacity Ratio of IDU/ODU			%	50-130	50-130	50-130	50-130	50-130	50-130
Noise	Anechoic	dB(A)	65	65	65	65	66	66	66
	Semi-anechoic	dB(A)	68	68	68	68	69	69	69
Piping	Liquid	mm	φ 19.05	φ 19.05	φ 19.05	φ 19.05	φ 19.05	φ 19.05	φ 19.05
	Gas	mm	φ 38.10	φ 38.10	φ 38.10	φ 38.10	φ 38.10	φ 38.10	φ 38.10
Current	Max	A	35.5+45	35.5+52	35.5+61.5	43.5+61.5	45+61.5	52+61.5	61.5+61.5
	Breaker	A	50+63	50+63	50+80	50+80	63+80	63+80	80+80
	Cooling	A	22.1+26.9	22.1+30.1	22.1+36.5	25.2+36.5	26.9+36.5	30.1+36.5	36.5+36.5
	Heating	A	21.6+27.4	21.6+31	21.6+39.3	25.5+39.3	27.4+39.3	31+39.3	39.3+39.3
Efficiency	EER	W/W	3.43	3.38	3.19	3.20	3.27	3.24	3.10
	COP	W/W	3.86	3.74	3.40	3.38	3.47	3.41	3.18
Max IDU Connect Qty.			59	64	64	64	64	64	64
Working Temp. Range	Cooling		Stable Work at -5°C~48°C DB and Interval at 48°C~52°C DB						
	Heating		Stable Work at -20°C~15°C WB						
Refrigerant Control Mode Electronic Expansion Valve			Microcomputer-controlled Electronic Expansion Valve						
Tubing Connection Method			Welding Connection						
Maximum Piping Length	Total Piping Length		m	1000					
	Refrigerant Piping Length	Actual	m	165					
		Equivalent	m	190					
	Between Piping Connection Kit and Each ODU		m	10					
	Between 1st Branch Multi Kit and Farthest IDU		m	90					
	Between Multi Kit and Each IDU		m	40					
Maximum Level Difference	Between ODUs (Combination of Base Units)		m	0.1					
	Between ODU and IDU	ODU above IDU*	m	50 (Standard) up to 110 (Custom Order)					
		IDU above ODU	m	40					
	Between IDUs		m	30					



HP Class			50	52	54	56	58
Combination of Single Module Units			16+16+18	16+16+20	16+16+22	16+16+24	16+18+24
Model Name			JVOH500VAEMBO	JVOH520VAEMBO	JVOH540VAEMBO	JVOH560VAEMBO	JVOH580VAEMBO
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	140.0	146.0	151.5	158.0	163.0
	Heating	kW	156.0	163.0	169.0	175.0	181.0
Power Input	Cooling	kW	41.79	42.86	44.95	48.80	50.30
	Heating	kW	41.46	42.47	44.97	49.90	51.88
Air Flow Rate	Standard	m ³ /min	768	841	841	860	860
Dimensions	H×W×D	mm	1725×3694×782	1725×4084×782	1725×4084×782	1725×4084×782	1725×4084×782
Weight	Net	kg	310+310+356	310+310+390	310+310+415	310+310+416	310+356+416
	Footprint Area	m ²	0.95+0.95+0.95	0.95+0.95+1.26	0.95+0.95+1.26	0.95+0.95+1.26	0.95+0.95+1.26
Packaging Volume		m ³	2.03+2.03+2.03	2.03+2.03+2.67	2.03+2.03+2.67	2.03+2.03+2.67	2.03+2.03+2.67
Compressor Type			Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	30.5	31.1	31.1	32.4	33.2
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	21.70	22.20	22.20	22.20	23.20
Number of Fan Motors			6	6	6	6	6
Capacity Ratio of IDU/ODU			% 50-130	50-130	50-130	50-130	50-130
Noise	Anechoic	dB(A)	66	66	67	67	67
	Semi-anechoic	dB(A)	69	69	70	70	70
Piping	Liquid	mm	φ 19.05	φ 19.05	φ 19.05	φ 19.05	φ 19.05
	Gas	mm	φ 38.10	φ 38.10	φ 38.10	φ 44.45	φ 44.45
Current	Max	A	35.5+35.5+43.5	35.5+35.5+45	35.5+35.5+52	35.5+35.5+61.5	35.5+43.5+61.5
	Breaker	A	50+50+50	50+50+63	50+50+63	50+50+80	50+50+80
	Cooling	A	22.1+22.1+25.2	22.1+22.1+26.9	22.1+22.1+30.1	22.1+22.1+36.5	22.1+25.2+36.5
	Heating	A	21.6+21.6+25.5	21.6+21.6+27.4	21.6+21.6+31	21.6+21.6+39.3	21.6+25.5+39.3
Efficiency	EER	W/W	3.35	3.41	3.37	3.24	3.24
	COP	W/W	3.76	3.84	3.76	3.51	3.49
Max IDU Connect Qty.			64	64	64	64	64
Working Temp. Range	Cooling		Stable Work at -5°C~48°C DB and Interval at 48°C~52°C DB				
	Heating		Stable Work at -20°C~15°C WB				
Refrigerant Control Mode Electronic Expansion Valve			Microcomputer-controlled Electronic Expansion Valve				
Tubing Connection Method			Welding Connection				
Maximum Piping Length	Total Piping Length		m	1000		1000	
	Refrigerant Piping Length	Actual	m	165		165	
		Equivalent	m	190		190	
	Between Piping Connection Kit and Each ODU		m	10		10	
	Between 1st Branch Multi Kit and Farthest IDU		m	90		90	
	Between Multi Kit and Each IDU		m	40		40	
Maximum Level Difference	Between ODUs (Combination of Base Units)		m	0.1		0.1	
	Between ODU and IDU	ODU above IDU*	m	50 (Standard) up to 110 (Custom Order)		50 (Standard) up to 90 (Custom Order)	
		IDU above ODU	m	40		40	
	Between IDUs		m	30		30	

Note:

1. Cooling and heating performances are the values when combined with our test indoor units.

Cooling Operation Conditions:

Indoor Air Inlet Temperature: 27°C DB 19°C WB

Outdoor Air Inlet Temperature: 35°C DB

Piping Length: 7.5m

Piping Lift: 0m

Heating Operation Conditions:

Indoor Air Inlet Temperature: 20°C DB

Outdoor Air Inlet Temperature: 7°C DB 6°C WB

Piping Length: 7.5m

Piping Lift: 0m

2. Sound pressure is based on the following conditions. 1m from the unit service cover surface, and 1.36m from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in an semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

*: Standard: up to 50m/Custom Order: up to 110m. Longer piping (up to 110m) is available for 8-54HP models only. Maximum level difference for 56-96HP models is 90m.

Specifications



HP Class			60	62	64	66	68	70	72
Combination of Single Module Units			16+20+24	16+22+24	16+24+24	18+24+24	20+24+24	22+24+24	24+24+24
Model Name			JVOH600VAEMBQ	JVOH620VAEMBQ	JVOH640VAEMBQ	JVOH660VAEMBQ	JVOH680VAEMBQ	JVOH700VAEMBQ	JVOH720VAEMBQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	169.0	174.5	181.0	186.0	192.0	197.5	204.0
	Heating	kW	188.0	194.0	200.0	206.0	213.0	219.0	225.0
Power Input	Cooling	kW	51.37	53.46	57.31	58.81	59.88	61.97	65.82
	Heating	kW	52.89	55.39	60.32	62.30	63.31	65.81	70.74
Air Flow Rate	Standard	m³/min	933	933	952	952	1025	1025	1044
Dimensions	H×W×D	mm	1725×4474×782	1725×4474×782	1725×4474×782	1725×4474×782	1725×4864×782	1725×4864×782	1725×4864×782
Weight	Net	kg	310+390+416	310+415+416	310+416+416	356+416+416	390+416+416	415+416+416	416+416+416
	Footprint Area	m²	0.95+1.26+1.26	0.95+1.26+1.26	0.95+1.26+1.26	0.95+1.26+1.26	1.26+1.26+1.26	1.26+1.26+1.26	1.26+1.26+1.26
Packaging Volume		m³	2.03+2.67+2.67	2.03+2.67+2.67	2.03+2.67+2.67	2.03+2.67+2.67	2.67+2.67+2.67	2.67+2.67+2.67	2.67+2.67+2.67
Compressor Type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	33.8	33.8	35.1	35.9	36.5	36.5	37.8
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	23.70	23.70	23.70	24.70	25.20	25.20	25.20
Number of Fan Motors			6	6	6	6	6	6	6
Capacity Ratio of IDU/ODU			% 50-130	50-130	50-130	50-130	50-130	50-130	50-130
Noise	Anechoic	dB(A)	67	67	67	67	67	68	68
	Semi-anechoic	dB(A)	70	70	70	70	70	71	71
Piping	Liquid	mm	φ 19.05	φ 19.05	φ 19.05	φ 19.05	φ 22.20	φ 22.20	φ 22.20
	Gas	mm	φ 44.45	φ 44.45	φ 44.45	φ 44.45	φ 44.45	φ 44.45	φ 44.45
Current	Max	A	35.5+45+61.5	35.5+52+61.5	35.5+61.5+61.5	43.5+61.5+61.5	45+61.5+61.5	52+61.5+61.5	61.5+61.5+61.5
	Breaker	A	50+63+80	50+63+80	50+80+80	50+80+80	63+80+80	63+80+80	80+80+80
	Cooling	A	22.1+26.9+36.5	22.1+30.1+36.5	22.1+36.5+36.5	25.2+36.5+36.5	26.9+36.5+36.5	30.1+36.5+36.5	36.5+36.5+36.5
	Heating	A	21.6+27.4+39.3	21.6+31+39.3	21.6+39.3+39.3	25.5+39.3+39.3	27.4+39.3+39.3	31+39.3+39.3	39.3+39.3+39.3
Efficiency	EER	W/W	3.29	3.26	3.16	3.16	3.21	3.19	3.10
	COP	W/W	3.55	3.50	3.32	3.31	3.36	3.33	3.18
Max IDU Connect Qty.			64	64	64	64	64	64	64
Working Temp. Range	Cooling	Stable Work at -5°C~48°C DB and Interval at 48°C~52°C DB							
	Heating	Stable Work at -20°C~15°C WB							
Refrigerant Control Mode Electronic Expansion Valve			Microcomputer-controlled Electronic Expansion Valve						
Tubing Connection Method			Welding Connection						
Maximum Piping Length	Total Piping Length		m	1000					
	Refrigerant Piping Length	Actual	m	165					
		Equivalent	m	190					
	Between Piping Connection Kit and Each ODU		m	10					
	Between 1st Branch Multi Kit and Farthest IDU		m	90					
	Between Multi Kit and Each IDU		m	40					
Maximum Level Difference	Between ODUs (Combination of Base Units)		m	0.1					
	Between ODU and IDU	ODU above IDU*	m	50 (Standard) up to 90 (Custom Order)					
		IDU above ODU	m	40					
	Between IDUs		m	30					



HP Class			74	76	78	80	82	84
Combination of Single Module Units			16+16+18+24	16+16+20+24	16+16+20+24	20*4	20*3+22	20*3+24
Model Name			JVOH740VAEMBQ	JVOH760VAEMBQ	JVOH780VAEMBQ	JVOH800VAEMBQ	JVOH820VAEMBQ	JVOH840VAEMBQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	208.0	214.0	219.5	224.0	229.5	236.0
	Heating	kW	231.0	238.0	244.0	252.0	258.0	264.0
Power Input	Cooling	kW	63.73	64.80	66.89	64.00	66.09	69.94
	Heating	kW	65.04	66.05	68.55	64.60	67.10	72.03
Air Flow Rate	Standard	m ³ /min	1116	1189	1189	1316	1316	1335
Dimensions	H×W×D	mm	1725×5322×782	1725×5712×782	1725×5712×782	1725×6492×782	1725×6492×782	1725×6492×782
Weight	Net	kg	310+310+356+416	310+310+390+416	310+310+415+416	390+390+390+390	390+390+390+415	390+390+390+416
	Footprint Area	m ²	0.95+0.95+0.95+1.26	0.95+0.95+1.26+1.26	0.95+0.95+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26
Packaging Volume		m ³	2.03+2.03+2.03+2.67	2.03+2.03+2.67+2.67	2.03+2.03+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67
Compressor Type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	43.1	43.7	43.7	45.2	45.2	46.5
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	30.10	30.60	30.60	33.60	33.60	33.60
Number of Fan Motors			8	8	8	8	8	8
Capacity Ratio of IDU/ODU			%	50-130	50-130	50-130	50-130	50-130
Noise	Anechoic	dB(A)	68	68	68	68	68	68
	Semi-anechoic	dB(A)	71	71	71	71	71	71
Piping	Liquid	mm	φ 22.20	φ 22.20	φ 22.20	φ 22.20	φ 22.20	φ 22.20
	Gas	mm	φ 50.80	φ 50.80	φ 50.80	φ 50.80	φ 50.80	φ 50.80
Current	Max	A	35.5+35.5+43.5+61.5	35.5+35.5+45+61.5	35.5+35.5+52+61.5	45+45+45+45	45+45+45+52	45+45+45+61.5
	Breaker	A	50+50+50+80	50+50+63+80	50+50+63+80	63+63+63+63	63+63+63+63	63+63+63+80
	Cooling	A	22.1+22.1+25.2+36.5	22.1+22.1+26.9+36.5	22.1+22.1+30.1+36.5	26.9+26.9+26.9+26.9	26.9+26.9+26.9+30.1	26.9+26.9+26.9+36.5
	Heating	A	21.6+21.6+25.5+39.3	21.6+21.6+27.4+39.3	21.6+21.6+31+39.3	27.4+27.4+27.4+27.4	27.4+27.4+27.4+31	27.4+27.4+27.4+39.3
Efficiency	EER	W/W	3.26	3.30	3.28	3.50	3.47	3.37
	COP	W/W	3.55	3.60	3.56	3.90	3.85	3.67
Max IDU Connect Qty.			64	64	64	64	64	64
Working Temp. Range	Cooling	Stable Work at -5°C~48°C DB and Interval at 48°C~52°C DB						
	Heating	Stable Work at -20°C~15°C WB						
Refrigerant Control Mode Electronic Expansion Valve			Microcomputer-controlled Electronic Expansion Valve					
Tubing Connection Method			Welding Connection					
Maximum Piping Length	Total Piping Length		m	1000				
	Refrigerant Piping Length	Actual	m	165				
		Equivalent	m	190				
	Between Piping Connection Kit and Each ODU		m	10				
	Between 1st Branch Multi Kit and Farthest IDU		m	90				
	Between Multi Kit and Each IDU		m	40				
Maximum Level Difference	Between ODUs (Combination of Base Units)		m	0.1				
	Between ODU and IDU	ODU above IDU*	m	50 (Standard) up to 90 (Custom Order)				
		IDU above ODU	m	40				
	Between IDUs		m	30				

Note:

- Cooling and heating performances are the values when combined with our test indoor units.

Cooling Operation Conditions:

Indoor Air Inlet Temperature: 27°C DB 19°C WB
Outdoor Air Inlet Temperature: 35°C DB
Piping Length: 7.5m
Piping Lift: 0m

Heating Operation Conditions:

Indoor Air Inlet Temperature: 20°C DB
Outdoor Air Inlet Temperature: 7°C DB 6°C WB
Piping Length: 7.5m
Piping Lift: 0m

- Sound pressure is based on the following conditions. 1m from the unit service cover surface, and 1.36m from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

*: Standard: up to 50m/Custom Order: up to 110m. Longer piping (up to 110m) is available for 8-54HP models only. Maximum level difference for 56-96HP models is 90m.

Specifications & accessories



HP Class			86	88	90	92	94	96
Combination of Single Module Units			20+20+22+24	20+20+24+24	20+22+24+24	20+24*3	22+24*3	24*4
Model Name			JVOH860VAEMBQ	JVOH880VAEMBQ	JVOH900VAEMBQ	JVOH920VAEMBQ	JVOH940VAEMBQ	JVOH960VAEMBQ
Power Supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW	241.5	248.0	253.5	260.0	265.5	272.0
	Heating	kW	270.0	276.0	282.0	288.0	294.0	300.0
Power Input	Cooling	kW	72.03	75.88	77.97	81.82	83.91	87.76
	Heating	kW	74.53	79.46	81.96	86.89	89.39	94.32
Air Flow Rate	Standard	m³/min	1335	1354	1354	1373	1373	1392
Dimensions	H×W×D	mm	1725×6492×782	1725×6492×782	1725×6492×782	1725×6492×782	1725×6492×782	1725×6492×782
	Net	kg	390+390+415+416	390+390+416+416	390+415+416+416	390+416+416+416	415+416+416+416	416+416+416+416
Footprint Area		m²	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26	1.26+1.26+1.26+1.26
Packaging Volume		m³	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67	2.67+2.67+2.67+2.67
Compressor Type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Charge Amount	kg	46.5	47.8	47.8	49.1	49.1	50.4
Refrigerant Oil	Model		FV68H	FV68H	FV68H	FV68H	FV68H	FV68H
	Charge Amount	L	33.60	33.60	33.60	33.60	33.60	33.60
Number of Fan Motors			8	8	8	8	8	8
Capacity Ratio of IDU/ODU			%	50-130	50-130	50-130	50-130	50-130
Noise	Anechoic	dB(A)	69	69	69	69	69	69
	Semi-anechoic	dB(A)	72	72	72	72	72	72
Piping	Liquid	mm	φ 22.20	φ 22.20	φ 25.40	φ 25.40	φ 25.40	φ 25.40
	Gas	mm	φ 50.80	φ 50.80	φ 50.80	φ 50.80	φ 50.80	φ 50.80
Current	Max	A	45+45+52+61.5	45+45+61.5+61.5	45+52+61.5+61.5	45+61.5+61.5+61.5	52+61.5+61.5+61.5	61.5+61.5+61.5+61.5
	Breaker	A	63+63+63+80	63+63+80+80	63+63+80+80	63+80+80+80	63+80+80+80	80+80+80+80
	Cooling	A	26.9+26.9+30.1+36.5	26.9+26.9+36.5+36.5	26.9+30.1+36.5+36.5	26.9+36.5+36.5+36.5	30.1+36.5+36.5+36.5	36.5+36.5+36.5+36.5
	Heating	A	27.4+27.4+31+39.3	27.4+27.4+39.3+39.3	27.4+31+39.3+39.3	27.4+39.3+39.3+39.3	31+39.3+39.3+39.3	39.3+39.3+39.3+39.3
Efficiency	EER	W/W	3.35	3.27	3.25	3.18	3.16	3.10
	COP	W/W	3.62	3.47	3.44	3.31	3.29	3.18
Max IDU Connect Qty.			64	64	64	64	64	64
Working Temp. Range	Cooling		Stable Work at -5°C~48°C DB and Interval at 48°C~52°C DB					
	Heating		Stable Work at -20°C~15°C WB					
Refrigerant Control Mode Electronic Expansion Valve			Microcomputer-controlled Electronic Expansion Valve					
Tubing Connection Method			Welding Connection					
Maximum Piping Length	Total Piping Length		m	1000				
	Refrigerant Piping Length	Actual	m	165				
		Equivalent	m	190				
	Between Piping Connection Kit and Each ODU		m	10				
	Between 1st Branch Multi Kit and Farthest IDU		m	90				
	Between Multi Kit and Each IDU		m	40				
Maximum Level Difference	Between ODUs (Combination of Base Units)		m	0.1				
	Between ODU and IDU	ODU above IDU*	m	50 (Standard) up to 90 (Custom Order)				
		IDU above ODU	m	40				
	Between IDUs		m	30				

Note:

1. Cooling and heating performances are the values when combined with our test indoor units.

Cooling Operation Conditions:

Indoor Air Inlet Temperature: 27°C DB 19°C WB

Outdoor Air Inlet Temperature: 35°C DB

Piping Length: 7.5m

Piping Lift: 0m

Heating Operation Conditions:

Indoor Air Inlet Temperature: 20°C DB

Outdoor Air Inlet Temperature: 7°C DB 6°C WB

Piping Length: 7.5m

Piping Lift: 0m

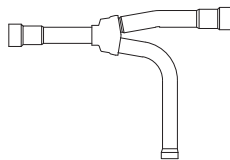
2. Sound pressure is based on the following conditions. 1m from the unit service cover surface, and 1.36m from floor level. The above data is based on the cooling mode. In case of heating mode, the sound pressure level increases by approximately 1~2 dB(A). The above data was measured in a semi-anechoic chamber so that reflected sound should be taken into consideration in the field.

*: Standard: up to 50m/Custom Order: up to 110m. Longer piping (up to 110m) is available for 8-54HP models only. Maximum level difference for 56-96HP models is 90m.

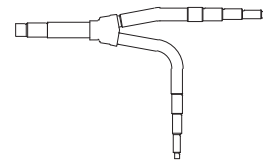
Piping connection kit

Connection branch for combined units (over 26HP)

Piping Connection Kit	Outdoor Unit	
Model Name	Capacity	Number of Units
JM-30SNQ	26-34HP	2
JM-46SNQ	36-48HP	2
JM-30SNQ+JM-46SNQ	50-54HP	3
JM-30SNQ+JM-68SNQ	56-72HP	3
JM-30SNQx2+JM-68SNQ	74-96HP	4



Gas pipe



Liquid pipe

Multi kit

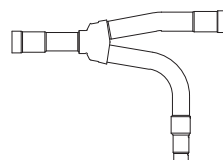
1) 1st Branch Multi Kit

Max Piping Length $\geq 100\text{m}$	
Model Name	Outdoor Unit Capacity
JE-162SN	8-10HP
JE-242SN	12-14HP
JE-302SN	16-24HP
JE-462SN	26-54HP
JE-682SN	56-96HP

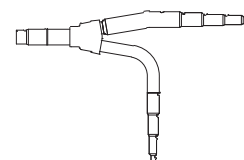
Max Piping Length $< 100\text{m}$	
Model Name	Outdoor Unit Capacity
JE-102SN	8-10HP
JE-162SN	12-16HP
JE-242SN	18-24HP
JE-302SN	26-54HP
JE-462SN	56-72HP
JE-682SN	74-96HP

2) Multi Kit after 1st Branch and Pipe Diameter

Model Name	Total Indoor Unit Capacity (kW)	Diameter (mm)	
		Gas Pipe	Liquid Pipe
JE-102SN	$Q \leq 15.9$	15.88	9.52
	$16 \leq Q < 25$	19.05	9.52
	$25 \leq Q < 33.5$	22.2	9.52
JE-162SN	$33.5 \leq Q < 45$	25.4	12.7
	$45 \leq Q < 50$	28.58	12.7
JE-242SN	$50 \leq Q < 72.9$	28.58	15.88
JE-302SN	$72.9 \leq Q < 100.8$	31.75	19.05
	$100.8 \leq Q < 156.8$	38.1	19.05
JE-462SN	$156.8 \leq Q < 190.4$	44.45	19.05
	$190.4 \leq Q < 207.2$	44.45	22.2
JE-682SN	$207.2 \leq Q < 252$	50.8	22.2
	$252 \leq Q < 274.4$	50.8	25.4
	$274.4 \leq Q < 349.5$	50.8	28.58



Gas pipe



Liquid pipe

Indoor Units





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Round-way Cassette

New
Design



- Round-way air outlet functions as a new decoration in any ceiling
- Energy-saving owing to all DC fan motors
- Wide capacity range from 2.8-16.0 kW
- Individual louver control for more efficiency and comfort for everyone
- Antibiosis drain pan for better air quality and easy maintenance
- Easy servicing for water level switch
- High reliability with anti-electric corrosion fan motor application
- DC motor drain-pump with 1200mm lift is fitted as standard, promoting design flexibility
- Unit height: Exactly 238mm (2.8-7.1kW)
- Branch duct discharge available, which can supply a certain volume of air to small rooms
- Panel with receiver kit: PJCK160SGQ
Panel without receiver kit: PJCK160PGQ



Indoor Unit Type			Round-way Cassette							
Model Name			JDCK028H0PAGQ	JDCK032H0PAGQ	JDCK036H0PAGQ	JDCK040H0PAGQ	JDCK045H0PAGQ	JDCK050H0PAGQ	JDCK056H0PAGQ	JDCK063H0PAGQ
Power Supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Capacity	Cooling	kW	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3
	Heating	kW	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Power Input			W	30	40	40	40	50	50	80
Current			A	0.3	0.4	0.4	0.4	0.5	0.5	0.7
Air Flow Rate			Hi2-Hi-Me-Lo m³/min	15/13/11/9	17/14/12/9	17/14/12/9	19/15/13/11	19/15/13/11	22/17/14/12	22/17/14/12
Dimensions	Unit (W×H×D)	mm	840×238×840	840×238×840	840×238×840	840×238×840	840×238×840	840×238×840	840×238×840	840×238×840
	Panel (W×H×D)	mm	950×44×950	950×44×950	950×44×950	950×44×950	950×44×950	950×44×950	950×44×950	950×44×950
Net Weight	Unit	kg	20	20	20	21	21	21	21	22
	Panel	kg	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Noise (Anechoic)			Hi2-Hi-Me-Lo dB(A)	34/31/30/28	37/32/30/28	37/32/30/28	39/33/32/29	39/33/32/29	40/35/32/29	40/35/32/29
Connections			Flare-nut Connection (with Flare Nuts)							
Piping	Liquid/Gas	(φ)mm	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7
	Drainage	mm	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Unit Packaging Volume			m³	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Panel Packaging Volume			m³	0.10	0.10	0.10	0.10	0.10	0.10	0.10

Model Name			JDCK071H0PAGQ	JDCK080H0PAGQ	JDCK090H0PAGQ	JDCK100H0PAGQ	JDCK112H0PAGQ	JDCK125H0PAGQ	JDCK140H0PAGQ	JDCK160H0PAGQ
Power Supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0
	Heating	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0
Power Input			W	80	100	100	140	140	150	160
Current			A	0.7	0.9	0.9	1.2	1.2	1.2	1.3
Air Flow Rate			Hi2-Hi-Me-Lo m³/min	27/21/18/14	27/23/19/15	27/24/19/16	35/31/24/20	35/31/24/20	35/33/26/20	36/35/27/21
Dimensions	Unit (W×H×D)	mm	840×238×840	840×288×840	840×288×840	840×288×840	840×288×840	840×288×840	840×288×840	840×288×840
	Panel (W×H×D)	mm	950×44×950	950×44×950	950×44×950	950×44×950	950×44×950	950×44×950	950×44×950	950×44×950
Net Weight	Unit	kg	22	26	26	26	26	26	26	26
	Panel	kg	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Noise (Anechoic)			Hi2-Hi-Me-Lo dB(A)	46/40/37/34	46/41/37/34	46/41/36/32	53/48/43/37	53/48/43/37	53/51/44/39	53/51/44/39
Connections			Flare-nut Connection (with Flare Nuts)							
Piping	Liquid/Gas	(φ)mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
	Drainage	mm	VP25	VP25	VP25	VP25	VP25	VP25	VP25	VP25
Unit Packaging Volume			m³	0.26	0.31	0.31	0.31	0.31	0.31	0.31
Panel Packaging Volume			m³	0.10	0.10	0.10	0.10	0.10	0.10	0.10

Note:

- The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions:

- Indoor Air Inlet Temperature: 27°C DB (80°F DB)
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: 7.5m
- Piping Lift: 0m

- The sound pressure level is based on following conditions.

1.5 Meters Beneath the Unit.

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

Options for Decoration Panel

With Receiver Kit: PJCK160SGQ

Without Receiver Kit: PJCK160PGQ

2-way Cassette



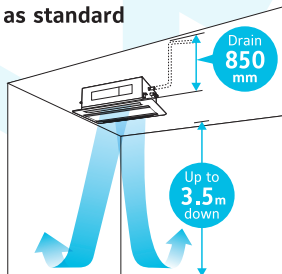
- Individual louver control for more efficiency and comfort for everyone
- Depth only 630mm, ideal for narrow corridors
- DC motor drain-pump with 850mm lift is fitted as standard, promoting design flexibility
- High ceiling use is available up to 3.5m downward-blowing
- Branch duct discharge available, which can supply a certain volume of air to small rooms
- Fresh air absorption aperture available
- Panel with simple and stylish design suitable for any interior



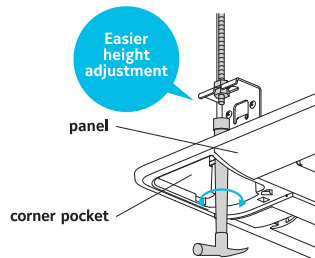
FEATURES AND BENEFITS

Design Flexibility

- High-ceiling air blow is available
- Drain pump is fitted as standard



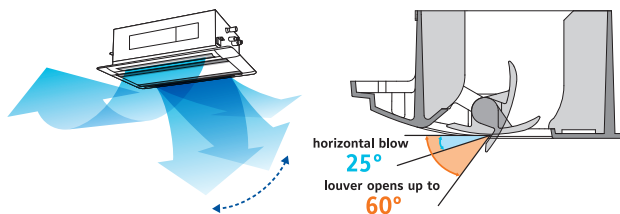
The height of the space for installing the unit can be fine-tuned



Adaptability

Control air flow with individual louvers

Suitable environment can be achieved for each person



Indoor Unit Type			2-way Cassette								
Model Name			JTKT022H0PS0AS	JTKT028H0PS0AS	JTKT040H0PS0AS	JTKT056H0PS0AS	JTKT071H0PS0AS	JTKT080H0PS0AS	JTKT112H0PS0AS	JTKT140H0PS0AS	JTKT160H0PS0AS
Indoor Unit Power Supply			AC 1φ, 220-240V/50Hz, 220V/60Hz								
Nominal Cooling Capacity		kW(Btu/h)	2.2(7,500)	2.8(9,600)	4.0(13,600)	5.6(19,100)	7.1(24,200)	8.0(27,300)	11.2(38,200)	14.0(47,800)	16.0(54,300)
Nominal Heating Capacity		kW(Btu/h)	2.5(8,500)	3.2(10,900)	4.8(16,400)	6.3(21,500)	8.5(29,000)	9.0(30,700)	12.5(42,600)	16.0(54,600)	18.0(61,400)
Sound Pressure Level (Overall A Scale)(Hi2-Hi-Me-Lo)		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
Outer Dimensions	Height	mm(in.)	298(11-3/4)								
	Width	mm(in.)	860(33-7/8)						1,420(55-7/8)		
	Depth	mm(in.)	630(24-13/16)								
Net Weight		kg(lbs.)	23(50.7)			25(55.1)			39(86.0)		
Refrigerant			R410A (Nitrogen-charged for Corrosion-resistance)								
Indoor Fan	Air Flow Rate (Hi2-Hi-Me-Lo)	m³/min. (cfm)	10-9-7.5-6.5 (353-318-265-230)	11-9.5-8.5-7 (388-335-300-247)	15-13-11.5-10 (530-459-406-353)	16.5-14.5-12.5-10.5 (583-512-441-371)	18.5-16.5-14.5-12.5 (653-583-512-441)	21-18.5-16-12.5 (742-653-565-441)	30-26.5-23-20 (1,059-936-812-706)	35-31-27-21 (1,236-1,095-953-742)	37-32.5-28.5-24 (1,306-1,147-1,006-847)
Motor		W	57						57 x 2		
Connections			Flare-nut Connection (with Flare Nuts)								
Refrigerant Piping	Liquid Line	mm(in.)	φ 6.35(1/4)				φ 9.52(3/8)				
	Gas Line	mm(in.)	φ 12.7(1/2)				φ 15.88(5/8)				
	Condensate Drain		VP25								
Approximate Packing Measurement		m³	0.24					0.36			

Adaptable Panel Model			JP-AP90DNA (For 022-080)		JP-AP160DNA (For 112-160)	
Color			Neutral White			
Outer Dimensions	Height	mm(in.)	30(1-3/16)			
	Width	mm(in.)	1,100(43-5/16)		1,660(65-3/8)	
	Depth	mm(in.)	710(27-15/16)			
Net Weight		kg(lbs.)	7.5(16.5)		10.5(23.2)	
Approximate Packing Measurement		m³	0.13		0.20	

Note:

- The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions:

- Indoor Air Inlet Temperature: 27°C DB (80°F DB)
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)
7°C DB (45°F DB)
- Outdoor Air Inlet Temperature: 7°C DB (45°F DB)
6°C WB (43°F WB)
- Piping Length: 7.5m
- Piping Lift: 0m

- The sound pressure level is based on following conditions.

1.5 Meters Beneath the Unit.

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

4-way Cassette Compact



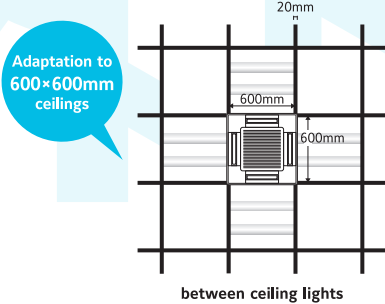
- Top-class silent operation achieved thanks to the newly designed fan and cassette body
- Compact! Adapts even to 600×600mm ceiling
- Thin (30mm) panel has negligible impact on interior aesthetics
- Fully opened louver does not over-reach the plane of the ceiling
- High ceiling use is available up to 3.5m downward-blowing
- DC motor drain-pump with 850mm lift is fitted as standard, promoting design flexibility
- Adopts drain pan with new antibacterial agent for better air quality and easy maintenance



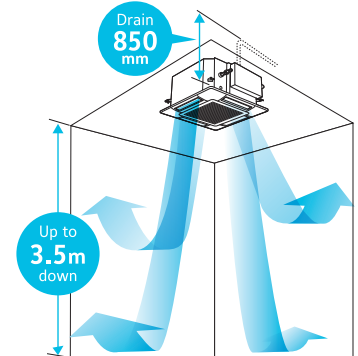
FEATURES AND BENEFITS

Design Flexibility

Compact

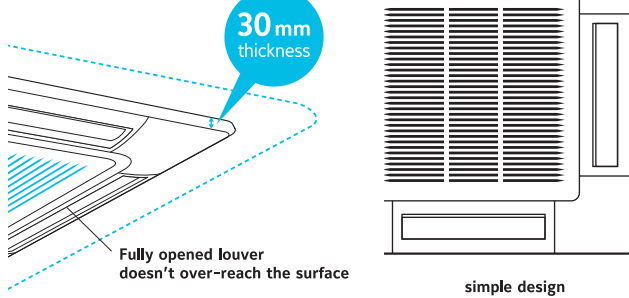


- High-ceiling air blow is available
- Drain pump is fitted as standard



Adaptability

Aesthetics



Indoor Unit Type			4-way Cassette Compact					
Model Name			JTKM016H0PS0AS	JTKM022H0PS0AS	JTKM028H0PS0AS	JTKM040H0PS0AS	JTKM056H0PS0AS	JTKM071H0PS0AS
Indoor Unit Power Supply			AC 1ϕ , 230V 50Hz, 220-240V 50Hz, 220V 60Hz					
Nominal Cooling Capacity		kW(Btu/h)	1.6(5,500)	2.2(7,500)	2.8(9,600)	4.0(13,600)	5.6(19,100)	7.1(24,200)
Nominal Heating Capacity		kW(Btu/h)	1.9(6,500)	2.5(8,500)	3.2(10,900)	4.8(16,400)	6.3(21,500)	8.5(29,000)
Sound Pressure Level (Overall A Scale)(Hi2-Hi-Me-Lo)		dB	34-30-28-24.5	36-33-29-24.5	38-34-30-24.5	41-37-33-27.5	45-39-35-31	47-43-39-35
Outer Dimensions	Height	mm(in.)	285(11-7/32)	285(11-7/32)	285(11-7/32)	285(11-7/32)	285(11-7/32)	285(11-7/32)
	Width	mm(in.)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)
	Depth	mm(in.)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)	570(22-7/16)
Net Weight		kg(lbs.)	16(35.3)				17(37.5)	
Refrigerant			R410A					
Indoor Fan Air Flow Rate (Hi2-Hi-Me-Lo)		m³/min. (cfm)	10-8.5-7.5-6 (353-300-265-212)	11-9.5-8-6 (388-335-282-212)	12-10-8.5-6 (424-353-300-212)	13-11-9.5-7 (459-388-335-247)	15-12-10-8 (530-424-353-282)	16-14-12-10 (565-494-424-353)
Motor		W	57					
Connections			Flare-nut Connection (with Flare Nuts)					
Refrigerant Piping	Liquid Line	mm(in.)	ϕ 6.35(1/4)					ϕ 9.52(3/8)
	Gas Line	mm(in.)	ϕ 12.7(1/2)					ϕ 15.88(5/8)
	Condensate Drain		PV25					

Adaptable Panel Model			JP-AP56NAM
Color			Neutral White
Outer Dimensions	Height	mm(in.)	30(1-3/16)
	Width	mm(in.)	620(24-13/32)
	Depth	mm(in.)	620(24-13/32)
Net Weight		kg(lbs.)	3(6.6)

Note:

- The cooling and heating capacities above show the maximum capacities when the outdoor and indoor temperature are under the following conditions.

Cooling Operation Conditions:

- Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)
- Outdoor Air Inlet Temperature: 35°C DB (96°F DB)

Heating Operation Conditions:

- Indoor Air Inlet Temperature: 20°C DB (68°F DB)
7°C DB (45°F DB)
- Outdoor Air Inlet Temperature: 7°C DB (45°F DB)
6°C WB (43°F WB)
- Piping Length: 7.5m
- Piping Lift: 0m

- The sound pressure level is based on following conditions.

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

Ducted High ESP

(External Static Pressure) Type



Indoor Unit Type			Ducted High ESP Type						
Model Name			JTDH084H0NN0AQ	JTDH090H0NN0AQ	JTDH112H0NN0AQ	JTDH142H0NN0AQ	JTDH160H0NN0AQ	JTDH224H0NN0AQ	JTDH280H0NN0AQ
Power Supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220/1/50	380-415/3/50
Capacity	Cooling	kW		8.4	9.0	11.2	14.2	16.0	22.4
	Heating	kW		9.6	10.0	13.0	16.3	18.0	25.0
Power Input			W	280	280	280	400	400	1000
Current			Normal	A	1.30	1.30	1.30	1.90	1.90
Air Flow Rate (Hi/Me/Lo)			m³/min	25/21/17	25/21/17	27/23/19	37/31/25	38/35/29	58
ESP			Standard (min/max)	Pa	120(90/120)	120(90/120)	120(90/120)	120(90/120)	180
Dimensions			Unit (H×W×D)	mm	350×(900+75)×800	350×(900+75)×800	350×(900+75)×800	350×(1300+75)×800	470×1060×1120
Net Weight			kg	46	46	46	58	58	96
Air Outlet Size			mm	803×220	803×220	803×220	1203×220	1203×220	916×338
Air Inlet Size			mm	833×306	833×306	833×306	833×306	833×306	910×415
Refrigerant Type				R410A					
Sound Pressure Level			Hi/Me/Lo	dB(A)	42/39/35	42/39/35	43/40/36	44/41/37	45/41/37
Connections				Flare-nut Connection (with Flare Nuts)					Brazing
Piping	Liquid/Gas	(φ)mm		9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/19.05
	Drainage	mm		VP25					
Packaging Volume			m³	0.38	0.38	0.38	0.52	0.52	0.90

Note:

- The nominal cooling capacity is the combined capacity of the standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions:

- Indoor Air Inlet Temperature: 27°C DB (80°F DB)
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)
7°C DB (45°F DB)
- Outdoor Air Inlet Temperature: 7°C DB (45°F DB)
6°C WB (43°F WB)
- Piping Length: 7.5m
- Piping Lift: 0m

- The sound pressure level is based on following conditions.

1.5 Meters Beneath the Unit.

With Discharge Duct (2.0m) and Return Duct (1.0m).

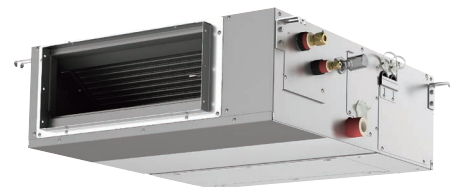
Voltage of the power source for the indoor fan motor is 220V.

In case of the power source of 240V, the sound pressure level increases by about 1 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.

- The data for external pressure *3) indicates "Standard Pressure Setting values when a filter is not used.

Ducted Medium ESP

(External Static Pressure) Type



Indoor Unit Type			Ducted Medium ESP Type									
Model Name			JTDM022 H0NN0AQ	JTDM028 H0NN0AQ	JTDM036 H0NN0AQ	JTDM043 H0NN0AQ	JTDM050 H0NN0AQ	JTDM056 H0NN0AQ	JTDM063 H0NN0AQ	JTDM071 H0NN0AQ	JTDM224 H0NN0AQ	JTDM280 H0NN0AQ
Power Supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
Capacity	Cooling	kW		2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	22.4
	Heating	kW		2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	31.5
Power Input			W	100	100	140	140	170	170	170	760	1230
Current			Normal	A	0.50	0.50	0.70	0.80	0.80	0.80	1.40	1.80
Air Flow Rate (Hi/Me/Lo)			m³/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	58
ESP			Standard (min/max)	Pa	50(50/80)	50(50/80)	50(50/80)	50(50/80)	50(50/80)	50(50/80)	100	100
Dimensions			Unit (H×W×D)	mm	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(900+75)×720	270×(900+75)×720	470×1060×1120	470×1250×1120
Net Weight			kg	26	26	26	26	35	35	35	96	104
Air Outlet Size			mm	553×220	553×220	553×220	553×220	803×220	803×220	803×220	916×338	1106×338
Air Inlet Size			mm	583×226	583×226	583×226	583×226	833×226	833×226	833×226	910×415	1100×415
Refrigerant Type				R410A								
Sound Pressure Level			Hi/Me/Lo	dB(A)	35/33/31	35/33/31	35/33/31	35/33/31	35/33/31	36/34/32	36/34/32	50
Connections				Flare-nut Connection (with Flare Nuts)							Brazing	
Piping	Liquid/Gas	(φ)mm		6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/15.88	6.35/15.88	9.52/15.88	9.52/15.88	9.52/19.05
	Drainage	mm		VP25								
Packaging Volume			m³	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.90

Note:

- The nominal cooling capacity is the combined capacity of the standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions:

- Indoor Air Inlet Temperature: 27°C DB (80°F DB)
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)
7°C DB (45°F DB)
- Outdoor Air Inlet Temperature: 7°C DB (45°F DB)
6°C WB (43°F WB)
- Piping Length: 7.5m
- Piping Lift: 0m

- The sound pressure level is based on following conditions.

1.5 Meters Beneath the Unit.

With Discharge Duct (2.0m) and Return Duct (1.0m).

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

- The data for external pressure *3) indicates "Standard Pressure Setting values when a filter is not used.

Ducted Low ESP (External Static Pressure) Type



Indoor Unit Type			Ducted Low ESP Type						
Model Name			JTDL022H0NN0AQ	JTDL028H0NN0AQ	JTDL036H0NN0AQ	JTDL043H0NN0AQ	JTDL050H0NN0AQ	JTDL056H0NN0AQ	JTDL063H0NN0AQ
Power Supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Capacity	Cooling	kW		2.2	2.8	3.6	4.3	5.0	5.6
	Heating	kW		2.8	3.3	4.2	4.9	5.6	7.5
Power Input			W	100	100	140	140	140	140
Current			Normal	A	0.50	0.50	0.70	0.70	0.70
Air Flow Rate (Hi/Me/Lo)			m³/min	8/7/6	8/7/6	13/11/9	13/11/9	15/13/11	15/13/11
ESP			Standard (min/max)	Pa	30	30	30	30	30
Dimensions			Unit (H×W×D)	mm	270×(650+75)×720	270×(650+75)×720	270×(650+75)×720	270×(900+75)×720	270×(900+75)×720
Net Weight			kg	26	26	26	26	35	35
Air Outlet Size			mm	553×220	553×220	553×220	553×220	803×220	803×220
Air Inlet Size			mm	583×226	583×226	583×226	583×226	833×226	833×226
Refrigerant Type				R410A					
Sound Pressure Level			Hi/Me/Lo	dB(A)	29.5/26/24.5	29.5/26/24.5	34/32/30	34/32/30	34/32/30
Connections				Flare-nut Connection (with Flare Nuts)					
Piping	Liquid/Gas	(φ)mm		6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/15.88	9.52/15.88
	Drainage	mm		VP25					
Packaging Volume			m³	0.21	0.21	0.21	0.21	0.27	0.27

Model Name			JTDL071H0NN0AQ	JTDL084H0NN0AQ	JTDL090H0NN0AQ	JTDL112H0NN0AQ	JTDL142H0NN0AQ	JTDL160H0NN0AQ
Power Supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Capacity	Cooling	kW		7.1	8.4	9.0	11.2	14.2
	Heating	kW		8.5	9.6	10.0	13.0	16.0
Power Input			W	140	280	280	280	400
Current			Normal	A	0.70	1.30	1.30	1.90
Air Flow Rate (Hi/Me/Lo)			m³/min	16/14/12	25/21/17	25/21/17	27/23/29	37/31/25
ESP			Standard (min/max)	Pa	30	60	60	60
Dimensions			Unit (H×W×D)	mm	270×(900+75)×720	350×(900+75)×800	350×(900+75)×800	350×(1300+75)×800
Net Weight			kg	35	46	46	46	58
Air Outlet Size			mm	803×220	803×220	803×220	803×220	1203×220
Air Inlet Size			mm	833×226	833×306	833×306	833×306	833×306
Refrigerant Type				R410A				
Sound Pressure Level			Hi/Me/Lo	dB(A)	35/33/31	40/37/33	41.5/39/35	42/39/35
Connections				Flare-nut Connection (with Flare Nuts)				
Piping	Liquid/Gas	(φ)mm		9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
	Drainage	mm		VP25				
Packaging Volume			m³	0.27	0.38	0.38	0.38	0.52

Note:

- The nominal cooling capacity is the combined capacity of the standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions:

- Indoor Air Inlet Temperature: 27°C DB (80°F DB)
- 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: 7.5m
- Piping Lift: 0m

- The sound pressure level is based on following conditions.

1.5 Meters Beneath the Unit.

With Discharge Duct (2.0m) and Return Duct (1.0m).

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

- The data for external pressure *3) indicates "Standard Pressure Setting values when a filter is not used.

OPTIONAL PARTS FOR DUCTED UNITS

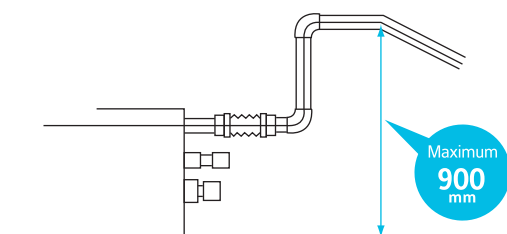
Optional Drain Pump

Drain-up mechanism can be supplied as optional part.

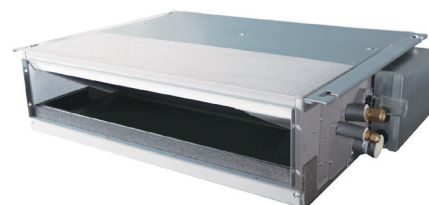
Model Name	JDUPI-132CQ	JDUPI-162Q	JDUPI-15H2Q
kW (Cooling)	2.2-7.1	8.4-16.0	22.4-28.0
HP Class	0.8-2.5	3.0-7.0	8.0-10.0

Optional Filter

Model Name	JKW-PP1Q	JKW-PP2Q	JKW-PP3Q	JKW-PP4Q
Ducted Category	Medium ESP	Medium ESP	High ESP	High ESP
	Low ESP	Low ESP	Low ESP	Low ESP
kW (Cooling)	2.2-4.3	5.0-7.1	8.4-11.2	14.2-16.0
HP Class	0.8-1.5	1.8-2.5	3.0-4.0	5.0-6.0



Ducted Slim Type



Indoor Unit Type			Ducted Slim Type			
Model Name			JTDS022H0PN0AQ	JTDS028H0PN0AQ	JTDS036H0PN0AQ	JTDS043H0PN0AQ
Power Supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Capacity	Cooling	kW	2.2	2.8	3.6	4.3
	Heating	kW	2.8	3.3	4.2	4.9
Power Input			50	50	60	60
Current			0.25	0.25	0.27	0.27
Air Flow Rate (Hi/Me/Lo)			8/7/6	8/7/6	10/8/7	10/8/7
ESP			10(10/30)	10(10/30)	10(10/30)	10(10/30)
Dimensions			192×700×602	192×700×602	192×700×602	192×700×602
Net Weight			21	21	21	21
Air Outlet Size			540×130	540×130	540×130	540×130
Air Inlet Size			545×171	545×171	545×171	545×171
Refrigerant Type			R410A			
Sound Pressure Level			28/25/22	28/25/22	32/30/28	32/30/28
Connections			Flare-Nut Connection (with Flare Nuts)			
Piping	Liquid/Gas	(φ)mm	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70
	Drainage	mm	VP25			
Packaging Volume			0.15	0.15	0.15	0.15

Note:

1. The nominal cooling capacity is the combined capacity of the standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions:

- Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)
- Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

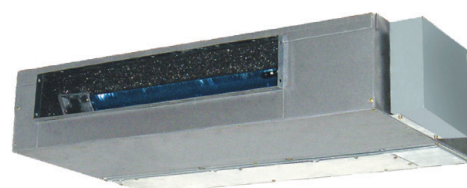
Heating Operation Conditions:

- 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: 7.5m
- Piping Lift: 0m

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

- 1.5 Meters Beneath the Unit.
With Discharge Duct (2.0m) and Return Duct (1.0m).
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 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- The data for external pressure *3) indicates "Standard Pressure Setting values when a filter is not used.

Ducted Compact Type



Indoor Unit Type			Ducted Compact Type							
Model Name			JTDN022H0PN0AQ	JTDN028H0PN0AQ	JTDN036H0PN0AQ	JTDN043H0PN0AQ	JTDN050H0PN0AQ	JTDN056H0PN0AQ	JTDN063H0PN0AQ	JTDN071H0PN0AQ
Power Supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Capacity	Cooling	kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1
	Heating	kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5
Power Input			60	60	70	70	90	90	90	90
Current			0.27	0.27	0.31	0.31	0.38	0.38	0.40	0.40
Air Flow Rate (Hi/Me/Lo)			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
ESP			10(10/30)	10(10/30)	10(10/30)	10(10/30)	10(10/30)	10(10/30)	10(10/30)	10(10/30)
Dimensions			192×900×447	192×900×447	192×900×447	192×900×447	192×1170×447	192×1170×447	192×1170×447	192×1170×447
Net Weight			20	20	21	21	26	26	26	26
Air Outlet Size			630×109	630×109	630×109	630×109	940×109	940×109	940×109	940×109
Air Inlet Size			759×171	759×171	759×171	759×171	1029×171	1029×171	1029×171	1029×171
Refrigerant Type			R410A							
Sound Pressure Level			27/24/21	27/24/21	31/29/26	31/29/26	34/30/28	34/30/28	35/33/30	35/33/30
Connections			Flare-Nut Connection (with Flare Nuts)							
Piping	Liquid/Gas	(φ)mm	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	6.35/15.88	6.35/15.88	9.52/15.88	9.52/15.88
	Drainage	mm	VP25							
Packaging Volume			0.15	0.15	0.15	0.15	0.18	0.18	0.18	0.18

Note:

1. The nominal cooling capacity is the combined capacity of the standard split system, and is based on the JIS standard B8616.

Cooling Operation Conditions:

- Indoor Air Inlet Temperature: 27°C DB (80°F DB)
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: 7.5m
- Piping Lift: 0m

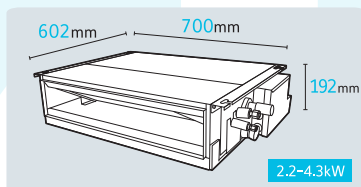
2. The sound pressure level is based on following conditions.

- 1.5 Meters Beneath the Unit.
With Discharge Duct (2.0m) and Return Duct (1.0m).
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 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- The data for external pressure *3) indicates "Standard Pressure Setting values when a filter is not used.

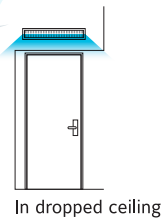
FEATURES AND BENEFITS OF SLIM / COMPACT MODELS

Design Flexibility

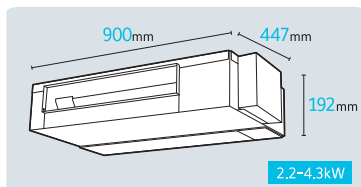
1. Slim & compact design



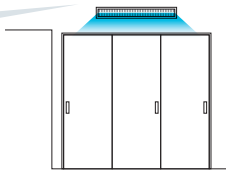
Slim



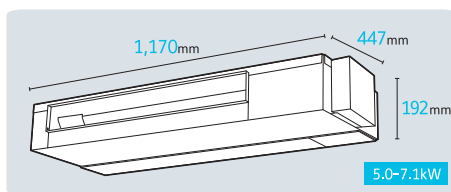
In dropped ceiling



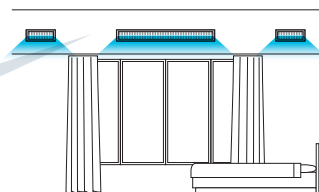
Compact



Over the closet

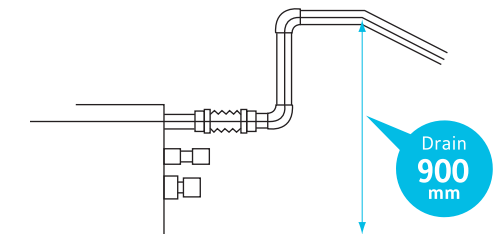


Compact



In dropped ceiling over the window

2. Standard drain pump with 900 mm lift



Adaptability

Quiet Operation

Cooling Capacity (kW)	Slim	2.2	3.6		
	Compact	2.2	3.6	5.0	6.3
Sound Pressure Level (dB(A))		21	26	28	30

* air flow rate: Low



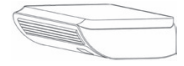
Optional Filter for Ducted Compact Type

Model	JKW-PP5Q	JKW-PP6Q
Ducted Category	Compact	Compact
kW (Cooling)	2.2-4.3	5.0-7.1
HP Class	0.8-1.5	1.8-2.5

Floor / Ceiling Convertible



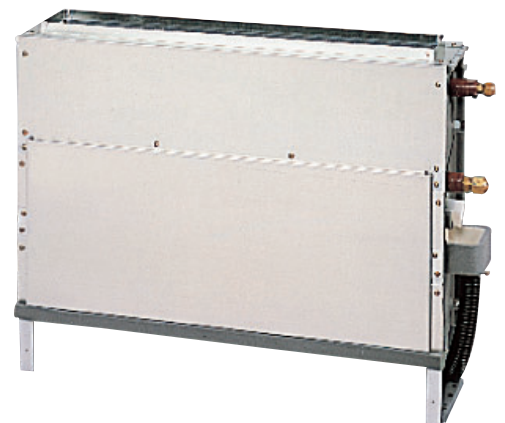
Floor Type



Ceiling Type

- Fully floor <=> Ceiling convertible
- Easy installation
- Fresh air in-take design
- [Floor use]
 - Smaller footprint: Only 230mm in depth
 - Suitable for installation beneath a window thanks to the 680mm height
- [Ceiling use]
 - Supplies air to a wide area
 - High ceiling use capability

Floor Concealed



- Minimal installation space required thanks to the 202mm depth
- Only suction and discharge grilles visible (interior aesthetics preserved)

Indoor Unit Type			Floor / Ceiling Convertible							
Model Name			JTFC050H0NN-0AQ1	JTFC056H0NN-0AQ1	JTFC063H0NN-0AQ1	JTFC071H0NN-0AQ1	JTFC084H0NN-0AQ1	JTFC090H0NN-0AQ1	JTFC112H0NN-0AQ1	JTFC142H0NN-0AQ1
Indoor Unit Power Supply			AC 1ϕ , 220-240V/50Hz, 220V/60Hz							
Nominal Cooling Capacity		kW	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2
Nominal Heating Capacity		kW	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3
Sound Pressure Level (Overall A Scale)	Ceiling	dB(A)	39-35-30		45-41-37		43-39-34		45-40-36	
	Floor	dB(A)	43-38-35		48-44-40		46-41-37		48-43-39	
Outer Dimensions	Height	mm(in.)	230(9)							
	Width	mm(in.)	990(39)				1,285(50-3/5)			
	Depth	mm(in.)	680(26-3/4)							
Net Weight		kg(lbs.)	31(68)		32(70)		39(86)		41(90)	
Refrigerant			R410A (Nitrogen-charged for Corrosion-resistance)							
Indoor Fan	Air Flow Rate (Hi/Me/Lo)	m³/min.	780/660/540 (459/389/318)		966/840/678 (569/495/399)		1,092/912/732 (643/537/431)		1,164/978/798 (685/576/470)	
Motor		W	40		70		80		130	
Connections			Flare-Nut Connection (with Flare Nuts)							
Refrigerant Piping	Liquid Line	mm(in.)	ϕ 6.35(1/4)				ϕ 9.53(3/8)			
	Gas Line	mm(in.)	ϕ 15.88(5/8)							
Condensate Drain			VP25							
Approximate Packing Measurement		m³	0.31				0.40		0.48	

- Note:**
- The nominal cooling capacity is the combined capacity of the standard split system, and is based on the JIS standard B8616.
 - The sound pressure level is based on following conditions.
1 meter from the unit.
1 meter from floor level.
Voltage of the power source for the indoor fan motor is 220V.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- Cooling Operation Conditions:**
- Indoor Air Inlet Temperature: 27°C DB (80°F DB)
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)
7°C DB (45°F DB)
6°C WB (43°F WB)
 - Piping Length: 7.5m Piping Lift: 0m

Indoor Unit Type			Floor Concealed			
Model Name			JTFC028H0NN0AQ	JTFC043H0NN0AQ	JTFC056H0NN0AQ	JTFC071H0NN0AQ
Indoor Unit Power Supply			AC 1Φ , 220-240V/50Hz, 220V/60Hz			
Nominal Cooling Capacity*1)		kW	2.8	4.3	5.6	7.1
Nominal Heating Capacity		kW	3.3	4.9	6.5	8.5
Sound Pressure Level (High2/High/Medium/Low)		dB(A)	37-34-31	40-38-35	42-38-36	45-43-40
Cabinet Color			—			
Outer Dimensions	Height	mm	620			
	Width	mm	900		1170	
	Depth	mm	202			
Net Weight		kg(lbs.)	25(55)	26(57)	34(68)	34(68)
Refrigerant			R410A (Nitrogen-charged for Corrosion-resistance)			
Air Flow Rate (Hi/Me/Lo)		m³/min. (cfm)	8/7/6 (282/247/212)	12/8/7 (353/282/247)	14.5/12.5/10.5 (512/441/370)	16/14/12 (565/494/424)
Motor Output		W	16	25	40	50
Connections			Flare-nut Connection (with Flare Nuts)			
Refrigerant Piping	Liquid Line	mm(in.)	φ 6.35(1/4)			φ 9.53(3/8)
	Gas Line	mm(in.)	φ 12.7(1/2)		φ 15.88(5/8)	
	Condensate Drain		VP25			
Approximate Packing Measurement		m³	0.19		0.23	

- Note:**
- The nominal cooling capacity and heating capacity are based on following conditions:
 - The sound pressure level is based on following conditions.
1 meter from 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(A).
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- Cooling Operation Conditions:**
- Indoor Air Inlet Temperature: 27°C DB (80°F DB)
*1): 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)
7°C DB (45°F DB)
6°C WB (43°F WB)
 - Piping Length: 7.5m Piping Lift: 0m

Wall Mounted



■ Simple design matches any interior design

■ Easy installation

Type: 022 - 040



Type: 050 - 063



Indoor Unit Type			Wall Mounted						
Model Name			JTHW022H0NN0AQ	JTHW028H0NN0AQ	JTHW036H0NN0AQ	JTHW040H0NN0AQ	JTHW050H0NN0AQ	JTHW056H0NN0AQ	JTHW063H0NN0AQ
Power Supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Capacity	Cooling	kW	2.2	2.8	3.6	4	5	5.6	6.3
	Heating	kW	2.5	3.3	4	4.5	5.6	6.3	7.1
Power Input			W	30	30	30	40	50	60
Current			A	0.2	0.2	0.2	0.2	0.3	0.3
Air Flow Rate (H/M/L)			m³/min	8.5/7.5/6.5	8.5/7.5/6.5	9.2/7.5/6.7	10/8.5/7.5	12/10.3/8.7	13.7/12/10.3
Dimensions			Unit (WxHxD)	mm	780x280x220	780x280x220	780x280x220	1050x290x220	1050x290x220
Weight			Unit	kg	10	10	10	13.5	13.5
Refrigerant Type					R410A	R410A	R410A	R410A	R410A
Noise (Anechoic)			H/M/L	dB(A)	38/36/32	38/36/32	40/36/34	41/38/36	42/39/35
Connections					Flare-Nut Connection (with Flare Nuts)				
Piping	Liquid/Gas	(φ)mm			6.35/12.7	6.35/12.7	6.35/12.7	6.35/15.88	6.35/15.88
	Drainage	mm			VP16	VP16	VP16	VP16	VP16
Packaging Volume			m³		0.12	0.12	0.12	0.15	0.15

Note:

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)
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: 7.5m
- Piping Lift: 0m

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

1 meter from 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.

STRAINER KIT

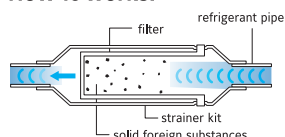
Strainer Kit Model:

MSF-NP63A1

What it is:

For normal running of the cooling function in VRF, the electric expansion valves of an indoor unit that is not in operation must be fully closed. However, if solid foreign matter enters the refrigerant piping at the time of installation, such debris could sometimes become stuck between components of the electric expansion valves, which may prevent the valves from completely closing (left slightly open). As a result, a small amount of refrigerant gas could run through the heat exchanger of the non-operating indoor unit, thereby cooling the heat exchanger. In addition, for a wall mounted indoor unit, cooling of the fan beneath a heat exchanger can occasionally cause dew condensation. There have been cases where condensed dew has exploded from an aperture when the unit was set in operation. The unit therefore ensures that solid foreign matter is caught without fail before it reaches the electric expansion valves of a wall mounted indoor unit, even if such solid foreign matter has entered the refrigerant pipes.

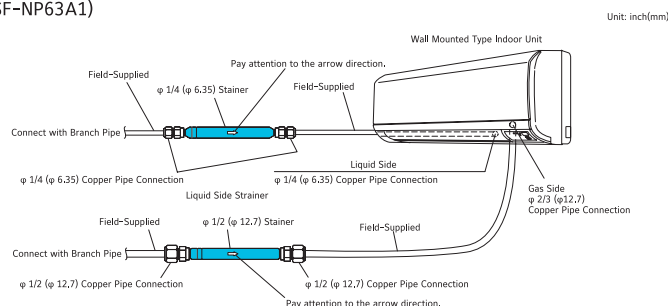
How it works:



A strainer kit catches **foreign substances** such as tiny particles of steel and copper powder that have entered the **refrigerant piping**.

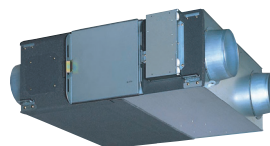
Where to install:

(MSF-NP63A1)



For MSF-NP63/A1: Needs to be installed in a location that is as close to the Wall Mounted unit as possible between Branch Pipe and the Wall Mounted unit.

Total Heat Exchanger



Indoor Unit Type			Total Heat Exchanger						
Model Name			JDTH020H0NAGQ	JDTH030H0NAGQ	JDTH040H0NAGQ	JDTH050H0NAGQ	JDTH065H0NAGQ	JDTH080H0NAGQ	JDTH100H0NAGQ
Power Supply			220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50
Temp. Efficiency	Summer (H/M/L)	%	64/64/70	60/60/65	61/61/66	60/60/62	65/65/69	65/65/69	65/65/69
	Winter (H/M/L)	%	80/80/83	77/77/80	79/79/81	75/75/76	75/75/78	74/74/78	72/72/76
Enthalpy Efficiency	Summer (H/M/L)	%	69/69/76	63/63/70	64/64/69	63/63/65	57/57/60	60/60/63	58/58/63
	Winter (H/M/L)	%	75/75/78	70/70/75	70/70/75	69/69/71	65/65/70	70/70/72	66/66/69
Power Input	H/M/L	W	120/110/75	165/155/120	210/200/130	330/310/230	2×(188/173/142)	2×(207/188/165)	2×(250/228/205)
Current	H/M/L	A	0.6/0.5/0.4	0.8/0.7/0.6	1.0/1.0/0.7	1.6/1.5/1.1	1.72/1.58/1.31	2.04/1.93/1.73	2.35/2.09/1.92
Air Flow Rate	H/M/L	m³/h	200/200/150	300/300/210	400/400/230	500/500/400	650/650/550	800/800/650	1000/1000/700
ESP	Standard (min-max)	Pa	100/70/40	120/90/50	120/90/50	120/90/50	130/100/90	130/100/90	165/120/60
Dimensions	Unit (H×W×D)	mm	220×962×735	220×962×735	220×1112×735	220×1112×735	388×1119×884	388×1119×1134	388×1119×1134
Weight	Net Weight	kg	38	40	46	52	61	69	69
Noise (Anechoic)	H/M/L	dB(A)	32/30/25	36/34/28	39/37/30	40/38/31	40/38/35	40/38/34	43/42/34
Connection Duct Diameter		mm	φ144	φ144	φ144	φ194	φ242	φ242	φ242
Packaging Volume		m³	0.37	0.37	0.43	0.49	0.94	1.15	1.15

Indoor Unit Type			Total Heat Exchanger						
Model Name			JDTH125H0NAGQ	JDTH150H0NEGQ	JDTH200H0NEGQ	JDTH250H0NEGQ	JDTH300H0NEGQ	JDTH400H0NEGQ	JDTH500H0NEGQ
Power Supply			220/1/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Temp. Efficiency	Summer (H/M/L)	%	65/65/69	63	63	63	63	63	63
	Winter (H/M/L)	%	70/70/78	68	72	75	75	73	73
Enthalpy Efficiency	Summer (H/M/L)	%	53/53/61	57	57	55	56	55	53
	Winter (H/M/L)	%	63/63/72	68	68	72	72	63	61
Power Input	H/M/L	W	2×(308/266/237)	2×440	2×810	2×925	2×1080	2×1470	2×1980
Current	H/M/L	A	3.03/2.45/2.18	2.84	3.08	4.19	5.23	5.57	7.51
Air Flow Rate	H/M/L	m³/h	1250/1250/800	1500	2000	2500	3000	4000	5000
ESP	Standard (min-max)	Pa	100/50/30	165	160	180	200	220	240
Dimensions	Unit (H×W×D)	mm	430×1250×1135	536×1500×1300	536×1500×1400	640×1700×1500	640×1750×1600	1655×1400×850	1730×1700×850
Weight	Net Weight	kg	95	144	155	180	220	225	260
Noise (Anechoic)	H/M/L	dB(A)	42/40/37	50	51	53	54	57	58
Connection Duct Diameter		mm	320×250 + 320×250	400×320 + 400×320	400×320 + 400×320	500×350 + 500×350	500×350 + 500×350	400×320 + 590×320	500×350 + 700×320
Packaging Volume		m³	1.25	1.82	1.95	2.63	2.93	3.01	3.75

*Please confirm the model name for "Wired remote controller" compatible with the Total Heat Exchanger (JDTH-H0NEGQ) to your local distributor.

Fresh Air Unit



Indoor Unit Type			Fresh Air Unit			
Model Name			JTAF1080C0NN-0AQ1	JTAF1680C0NN-0AQ1	JTAF2100C0NN-0AQ1	JTAF3000C0NN-0AQ1
Power Supply			AC 1φ 220-240V/50Hz	AC 1φ 220-240V/50Hz	AC 1φ 220-240V/50Hz	AC 3φ 380-415V/50Hz
Cooling	Capacity	kW	14.0	22.4	28.0	33.5
	Power	kW	0.30	0.48	0.50	0.68
	Nominal Current	A	1.4	2.2	2.3	1.43
Heating	Capacity	kW	13.7	21.9	24.5	26.8
	Power	kW	0.30	0.48	0.50	0.68
	Nominal Current	A	1.4	2.2	2.3	1.43
Sound Pressure Level	(Overall a Scale)	dB(A)	42	44	47	56
Dimensions	H×W×D	mm	370 × 1320 × 800	486 × 1270 × 1069	486 × 1270 × 1069	486 × 1270 × 1069
Net Weight		kg	63	110	110	110
Refrigerant			R410A			
Air Flow Rate		m³/min	18	28	35	50
External Pressure		Pa	200	220	220	220
Piping	Liquid	mm	φ9.53	φ9.53	φ9.53	φ12.7
	Gas	mm	φ15.88	φ19.05	φ22.2	φ25.4
	Condensate Drain		VP25, Outer Diameter: φ32mm			
Temperature Range of Fresh Air Drawn			Cooling: 20°C ~ 43°C, Heating: -7°C ~ 15°C			
Connectable Outdoor Unit			YORK® VRF JVOHQ Series			JVOH120VPEMBQ

Model Name			JTAF4000C0NM-0AQ1	JTAH4000C0NM-0AQ1	JTAF5000C0NM-0AQ1	JTAH5000C0NM-0AQ1	JTAF6000C0NM-0AQ1	JTAH6000C0NM-0AQ1
Power Supply			AC 3φ 380-415V/50Hz	AC 3φ 380-415V/50Hz	AC 3φ 380-415V/50Hz	AC 3φ 380-415V/50Hz	AC 3φ 380-415V/50Hz	AC 3φ 380-415V/50Hz
Cooling	Capacity	kW	45.0	45.0	56.0	56.0	56.0	56.0
	Power	kW	0.72	1.06	1.06	1.39	1.39	1.72
	Nominal Current	A	1.8	2.2	2.22	3.14	3.0	3.9
Heating	Capacity	kW	36.0	36.0	44.8	44.8	44.8	44.8
	Power	kW	0.72	1.06	1.06	1.39	1.39	1.72
	Nominal Current	A	1.8	2.2	2.22	3.14	3.0	3.9
Sound Pressure Level	(Overall a Scale)	dB(A)	58	62	61	65	63	67
Dimensions	H×W×D	mm	635 × 1950 × 805	635 × 1950 × 805	735 × 1950 × 805	735 × 1950 × 805	735 × 1950 × 805	735 × 1950 × 805
Net Weight		kg	196	196	222	222	222	222
Refrigerant			R410A					
Air Flow Rate		m³/min	67	67	83	83	100	100
External Pressure		Pa	200	300	200	300	200	300
Piping	Liquid	mm	φ12.7	φ12.7	φ15.88	φ15.88	φ15.88	φ15.88
	Gas	mm	φ25.4	φ25.4	φ28.6	φ28.6	φ28.6	φ28.6
	Condensate Drain		RC1 (Internal Screw)					
Temperature Range of Fresh Air Drawn			Cooling: 20°C ~ 43°C, Heating: -7°C ~ 15°C					
Connectable Outdoor Unit			JVOH160VPEMBQ	JVOH160VPEMBQ	JVOH200VPEMBQ	JVOH200VPEMBQ	JVOH200VPEMBQ	JVOH200VPEMBQ

- Note:**
- Cooling capacity and heating capacity tests in the following conditions:
Cooling conditions: 33°CDB, 28°CWB, pipe length 7.5m, pipe height difference 0.0m
Heating conditions: 0°CDB, -2.9°CWB, pipe length 7.5m, pipe height difference 0.0m (without defrosting)
 - Noise test conditions are as follows:
At a distance of 1.5m from the unit surface.
The above parameters are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be counted at the scene.
 - An air filter with dust removal efficiency of 50% or more needs to be installed at the air inlet.
 - When the field duct resistance is small and the fan speed is too high, the unit will appear the phenomena of abnormal shutdown, fault, water spray etc., and the duct pipe should be insulated to prevent generating dew.
 - Air processor can only be used for processing fresh air, indoor air conditioning load processing need to use other air conditioners.
 - Fresh air processing unit should be connected with YORK® VRF Heat Pump type, JVOHQ Series.
When fresh air processing unit and other indoor units air all connected to the same outdoor unit, its equivalent cooling capacity is calculated by the following criteria:
Type_5HP: 21.0kW; 8HP: 33.3kW; 10HP: 42.0kW
 - Refer to capacity restrains shown on table below for indoor unit capacity connectable to outdoor unit.

System	All Fresh Air Unit System (Only All Fresh Air Unit)	Mixed System (All Fresh Air Unit and Other Indoor Unit)
Range of Combination Capacity	80 to 100%	1) 80 to 100% 2) Total Capacity of All Fresh Air: 30%

- When outdoor temperature is below 20°C in cooling operation, the system will be automatically converted to ventilation operation. When outdoor temperature is higher than 15°C in heating operation, it will be automatically converted to ventilation operation. When lower than -7°C, the fresh air processing unit will stop running.

Controllers





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CENTRALIZED CONTROL SYSTEMS

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CENTRAL STATION EX

Specifications

Outer Dimensions (H*W*D)

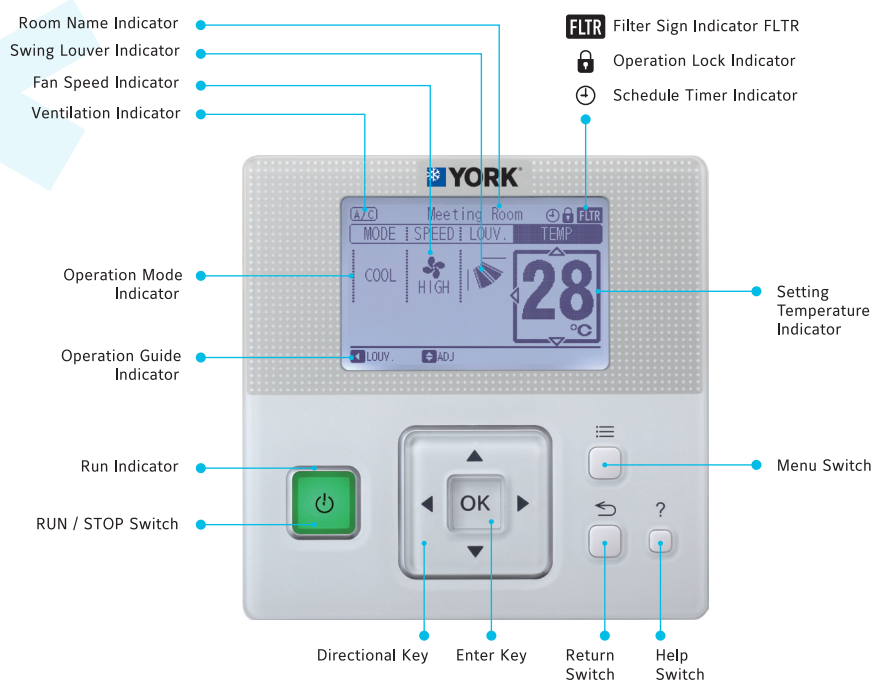
(mm) 120.0 * 120.0 * 17.9

(inch) 4.72 * 4.72 * 0.70

Net Weight

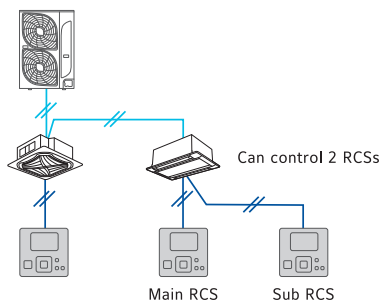
200 g

1/2 lbs

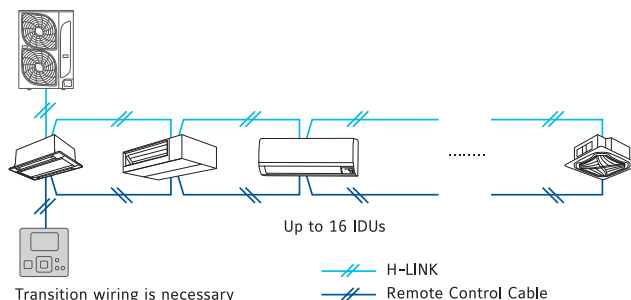


Example of System Configuration

Connected to 2 IDUs



Connected up to 16 IDUs



Setting	Run/Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
	Temperature Setting Rate _1°C / 1°F
	Fan Speed _3 (Hi, Me, Lo) / 4 (Hi2, Hi, Me, Lo) Taps
	Louver Direction
	Individual Louver Setting
	Remote Control Main-Sub Setting
	Automatic Reset Temperature (Cooling / Heating)
Service	Filter Sign
	Filter Sign Reset
	Louver Open / Close
	Room Name Setting
	Alarm Sign

Screen	Screen Adjustment
	Language
	Temperature Unit- °C / °F
	Adjusting Brightness of Run Indicator
Check Menu	Sensor Condition Check
	Sensor Data Check
	Model Display
	Indoor / Outdoor PCB Check
	Self Checking
	Alarm History Display
Test Run	Test Run
	Function Selection (Optional Function Setting)
	Thermistor Selection
	Input / Output Setting
	Indoor Unit Address Change
	Indoor Unit Address Checking Operation
	Indoor Unit Address Initialization
	Input-Output Setting Initialization
	Compressor Pre-Heat Control Cancellation
	Contact Information Registration

Management	Operation Lock / Set
	Lower Limit for Cooling Operation
	Upper Limit for Heating Operation
	Built-in Timer (On / Off)
Schedule	Adjusting Date / Time Setting
	Weekly Schedule
	Settable Timer Operation Times (5 Times Per Day)
	Holiday Setting
Schedule	Schedule On / Off

JCWA10NEGQ

INDIVIDUAL CONTROL SYSTEMS

WIRED REMOTE CONTROLLER

Specifications

Outer Dimensions (H*W*D)

(mm) 88.0 * 88.0 * 15.5

(inch) 3.46 * 3.46 * 0.61

ON/OFF Button
Mode Button

Operation Mode

Cooling Mode



Heating Mode



Dry Mode



Fan Mode



Auto Mode



Liquid Crystal Display (LCD) Screen

Up Button & Down Button

Timer/Clock Setting

Fan Speed

Auto (flickering)

Hi2 MAX

Hi

Me

Lo

Timer Setting

ON

Timer On

OFF

Timer Off

ONCE

Timer Valid for One Time

DAILY

Timer Valid for One Day

WEEKLY

Timer Set for a Week

Temperature display

Room temperature

RT 26.0°C RT 79.0°F

Set temperature

SET 26.0°C SET 79.0°F

Note:

1. Fan Speed Taps setting unit depends on indoor units. Please check each technical catalog in advance.

- 3 Taps (Hi, Me, Lo)
- 4 Taps (Hi2, Hi, Me, Lo)

2. Initial Setting of temperature display is "Set temperature" display only. Please contact your dealers to display the room temperature.

JCRB10NEWS

INDIVIDUAL CONTROL SYSTEMS

WIRELESS REMOTE CONTROLLER

Specifications

Outer Dimensions (H*W*D)

(mm) 140.0 * 55.0 * 16.8

(inch) 5.51 * 2.17 * 0.66

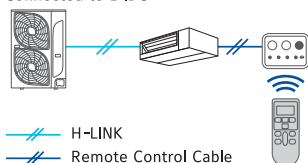
Net Weight

75 g

1/6 lbs

Example of System Configuration

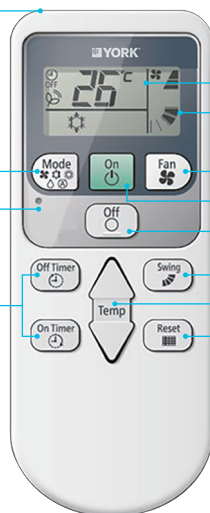
Connected to 1 IDU



H-LINK

Remote Control Cable

Transmitter



Transmitting Indication

LCD (Liquid Crystal Display)

Mode Selection Switch

Reset Switch

Timer Switches

Fan Speed Switch

On Switch

Off Switch

Louver Angle Switch

Temp. Switch

Filter Sign Reset Switch

Setting	Run / Stop
	Operation Mode
	Auto Mode Setting
	Temperature Setting
	Temperature Setting Rate_ 1°C / 1°F
Service	Fan Speed _ 3 (Hi, Me, Lo) / 4 (Hi2, Hi, Me, Lo) Taps
	Louver Direction
	Filter Sign Reset
	Identifying Indoor Units Side-by-side
Schedule	Temperature Unit -°C / °F
	Built-in Timer (On / Off)

Receiver Kit

OTHER

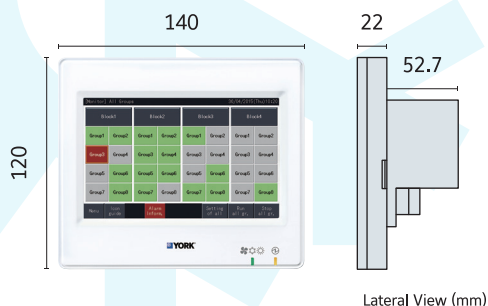
FOR WIRELESS REMOTE CONTROLLER (JCRB10NEWS)

Model	PJCK160SGQ (Panel)	JRMA10NEWS	JR2A10NEWS	JRDA12NEWS			
Compatible IDU Model	Round-way Cassette	4-way Cassette Compact	2-way Cassette	Ducted	Floor Concealed	Floor / Ceiling Convertible	Wall Mounted

JCMA101EWS

CENTRALIZED CONTROL SYSTEMS

CENTRAL STATION mini



Most compact in our touch panel centralized control systems. Its down-to-detail control functionalities, such as Weekly Scheduling, Accumulated Operating Time, 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.

CAPACITY

Remote Controller Group	32
Group	32
Block	4 Patterns (2/4/8/16)
Indoor Unit	160
Outdoor Unit	64
Building Scale	Small

SPECIFICATIONS

Rated Power Supply	1~, AC 100~240V, 50/60Hz
Electrical Power Consumption	20W (Max.)
Communication Unit	Units of Adopting for H-LINK II
Communication Line	Non-polar 2-wire
Communication Speed	9,600bps
Wiring Length	1,000m (Total Length)
Display	5.0-inch Wide Color LCD (Full Dot)
Display Control	Touch Panel

FUNCTIONS

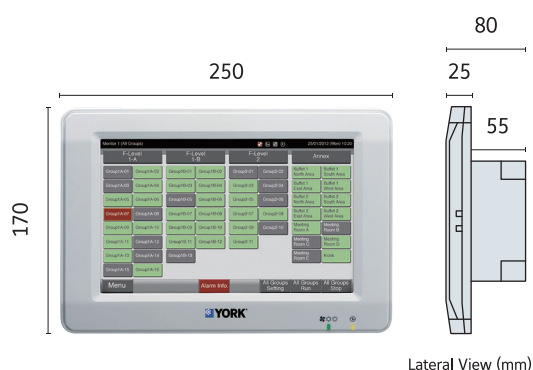
Monitor Function	• Run/Stop/Abnormality	• Accumulated Operating Time	• Setting Louver
	• Setting Temperature	• Operation Mode	• Filter Sign
	• RCS Operation Prohibited Setting	• Setting Fan Speed	• Alarm Code
Control Function	• Run/Stop*	• Operation Mode	• Temperature Setting
	• Fan Speed	• Louver	•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

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

JCTA121EWS

CENTRALIZED CONTROL SYSTEMS

CENTRAL STATION EZ



Easy control with 8.5-inch color touch panel. Its down-to-detail control functionalities, such as Weekly Scheduling, Accumulated Operating Time, 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.

CAPACITY

Remote Controller Group	64
Group	64
Block	4 Patterns
Indoor Unit	160
Outdoor Unit	64
Building Scale	Small - Medium

SPECIFICATIONS

Rated Power Supply	1~, AC 100~240V, 50/60Hz
Electrical Power Consumption	30W (Max.)
Communication Unit	Units of Adopting for H-LINK II
Communication Line	Non-polar 2-wire
Communication Speed	9,600bps
Wiring Length	1,000m (Total Length)
Display	8.5-inch Wide Color LCD (Full Dot)
Display Control	Touch Panel

FUNCTIONS

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

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

Coming in June 2018

JWBA101EWS



Brand-new centralized controller for medium-large scale buildings. With 12.1-inch screen of 7-degrees of size with a user-friendly colorful panel, you can control and monitor an air-conditioning system up to 2,560 indoor units, which leads to better energy-saving management.

Note:

1. Up to 8 units of different centralized control systems (CENTRAL STATION mini & CENTRAL STATION EZ) can be connected.
2. No compatibility with BMS adapter for BACnet Interface or LonWorks Interface.
3. In combination use with different centralized control systems, "RC Prohibition" is not available.

CENTRALIZED CONTROL SYSTEMS

CENTRAL STATION EX

CAPACITY

H-LINK	16
Remote Controller Group	2048 (*1)
Group	2048 (*1)
Block	512 (*2)
Indoor Unit	2560 (*1)
Outdoor Unit	1024 (*1)
Building Scale	Large

SPECIFICATIONS

Rated Power Supply	100-240VAC ± 10% (50/60Hz)
Electrical Power Consumption	50W (Max.)
Communication Unit	Units of Adopting for H-LINK
Communication Line	Nonpolar Two Wires
Communication Speed	9,600bps
Wiring Length	1,000m (Total Length)
Display	12.1 inch TFT color liquid crystal display
Display Control	Touch Panel

FUNCTIONS

Monitor Function	<ul style="list-style-type: none"> • On/Off • Mode • Set Temperature • Air Intake Temperature 	<ul style="list-style-type: none"> • RC Sensor Temperature • Outdoor Temperature (*3) • Fan Speed • Louver 	<ul style="list-style-type: none"> • RC Prohibition • Thermo-on Information • Filter Sign/auto Cleaning Fault • Alarm Status/Alarm Codes
Control Function	<ul style="list-style-type: none"> • On/Off • Mode • Set Temperature • Fan Speed • Louver • RC Prohibition 	<ul style="list-style-type: none"> • Filter Sign Reset • Function Selection for Indoor Units (*4) • Function Selection for Outdoor Units (*5) • Capacity Control for Outdoor Units (*5) • Lower Noise Control for Outdoor Units (*5) 	

*1: One external adapter can control [128 remote controller groups / 128 groups / 32 blocks], and CENTRAL STATION EX can connect up to 15 adapters.

*2: No restriction on the number of H-LINK.

*3: This is the air intake temperature on representative outdoor unit.

*4: Some indoor units may not fully support all functions.

*5: Available for applicable outdoor units only.



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Authorized Dealer



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