

## Jet-Air Light Commercial

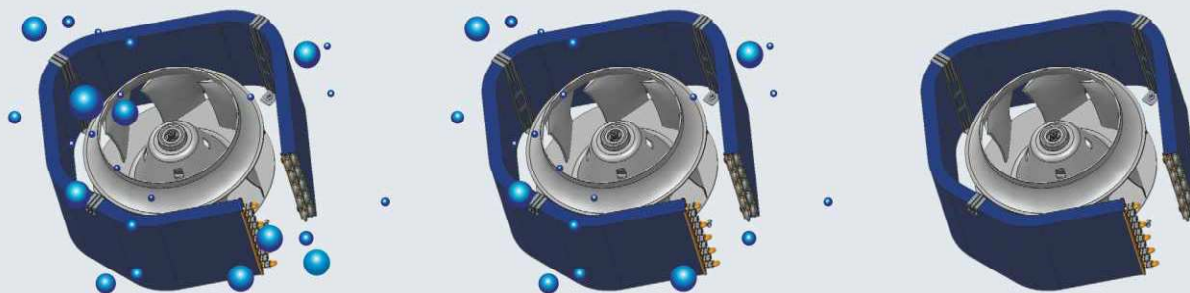
Jet-Air Light Commercial air conditioners fall between residential air conditioners and central air conditioners. Their capacity scope is wider than that of residential air conditioners: from 12KBtu/h to 60KBtu/h. Indoor units of floor ceiling type, duct type and cassette type are available. Their installation is simpler than that of conventional central air conditioners, with low installation cost and no need of welding. They are well suited to the areas from 16m<sup>2</sup> to 140m<sup>2</sup>, such as apartments, villas, hotels and offices.



## 2 Air Handling Function

### Mould Proof(X-FAN)

» Do you know that water in IDU will give birth to bacteria which will affect human health? Jet-Air Light Commercial will wipe out water, caring for your health!



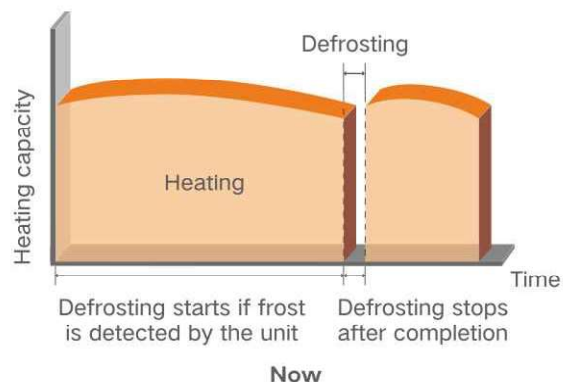
## 3 Safer & More Reliable

### Intelligent Defrosting

» Did you ever feel annoyed when the air conditioner stopped heating because of defrosting? This problem has already been resolved by Jet-Air Light Commercial. Unit only starts defrosting when it's necessary, which is more energy-saving and comfortable.

### Antifreezing Protection

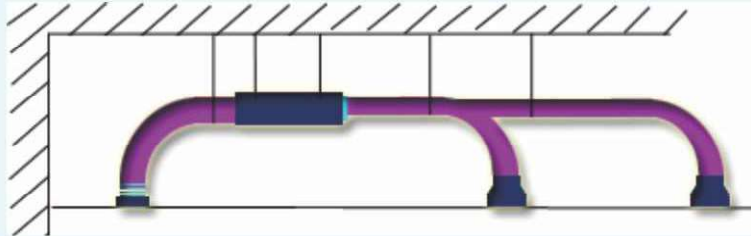
» If frost of outdoor condenser is detected by the unit, the compressor will stop for protection.



## 5 Introduction of Indoor Units

### Duct Type Indoor Unit

» The static pressure can be adjusted within 0~150pa, applicable for various installation requirements.



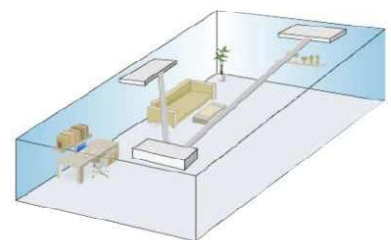
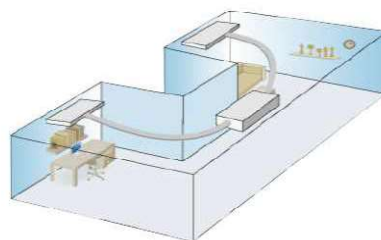
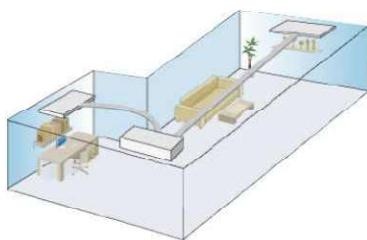
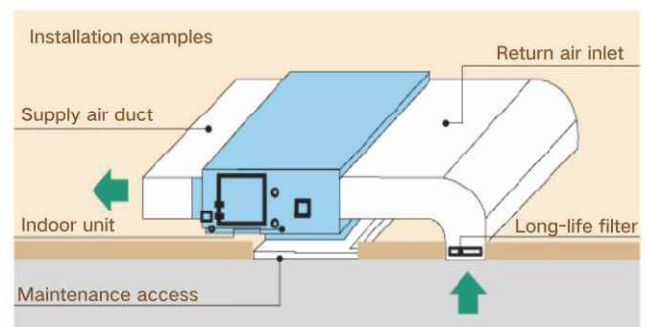
#### » Adjustable fan speed

Fan speed of indoor unit can be adjusted by wired controller and there are 4 kinds of speed (turbo, high, medium, low) to meet different requirements.

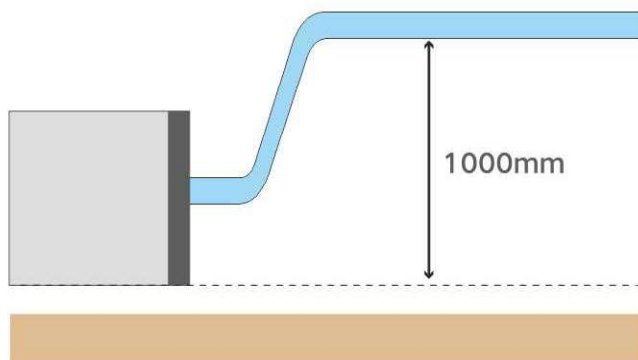
#### » Highly flexible installation

Highly flexible installation is possible to satisfy various needs.

» Flexible and easy to install in L shape, U shape and large rooms.

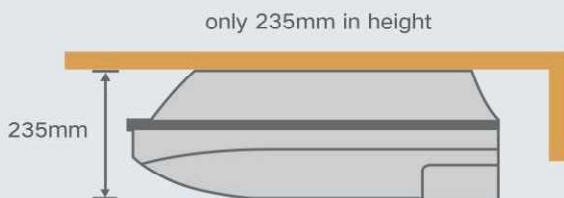


#### » Drain pump lift (Optional)



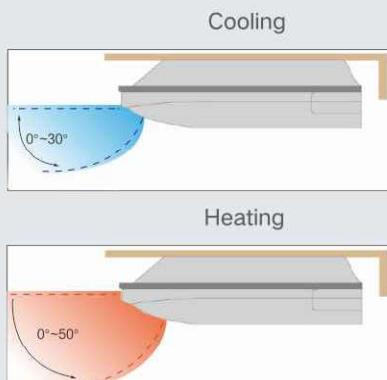
## Floor Ceiling Type Indoor Unit

### » Compact design



### » Wide discharge range

With cross-direction swing angle, the air supply range is wider.



### » Easy maintenance

Convenient disassembly and maintenance thanks to the unique design.

### » Microcomputer control

The complete control functions are controlled by microcomputer which not only shows all running modes and temperatures but also has functions like malfunction diagnosis and data search.

### » Flexible installation

There are 2 installation methods: installation on the ceiling or floor.



Ceiling Type



Floor Standing Type



## Units Lineup

Capacity index		35	50
Outdoor unit			
Indoor unit	Duct		
	Cassette		
	Floor ceiling		

Capacity index		71	100
Outdoor unit			
Indoor unit	Duct		
	Cassette		
	Floor ceiling		

Model	Outdoor unit			JASA-H18A4/ASI		
	Indoor unit			Duct	Cassette	Floor ceiling
				JASA-Hi-H18A4/ASI	JASA-Ca-H18A4/ASI	JASA-Ce-H18A4/ASI
Capacity	Cooling		kW	5.3	5	5.2
			Btu/h	18000	17000	17700
	Heating		kW	5.8	5.6	5.8
			Btu/h	19700	19100	19700
EER/COP			W/W	3.21/3.62	3.21/3.50	3.21/3.41
Power supply			Ph/V/Hz	220-240V ~50/60Hz		
Power input	Cooling		kW	1.65	1.56	1.62
	Heating		kW	1.6	1.6	1.7
Current input	Cooling		A	7.4	6.78	7
	Heating		A	7	7	7.4
Refrigerant charge volume			kg	1.25		
Indoor unit	Air flow volume(SH/H/M/L)		CFM	559/518/500/441	412/341/282/235	500/471/412/353
			m³/h	950/880/850/750	700/580/480/400	850/800/700/600
	ESP	Rated	Pa	25	0	0
		Range	Pa	0-50	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	40/39/37/35	44/39/35/31	44/42/39/36
	Dimension (W×D×H)	Outline	mm	1000×450×200	570×570×265	870×665×235
		Package	mm	1308×568×275	698×653×295	1033×770×300
	Net weight/Gross weight		kg	25/30	17/22	26/31
Panel	Dimension (W×D×H)	Outline	mm	-	620×620×47.5	-
		Package	mm	-	701×701×125	-
	Net weight/Gross weight		kg	-	3.0/4.5	-
Outdoor unit	Sound pressure level		dB(A)	55	55	55
	Dimension (W×D×H)	Outline	mm	818×302×596	818×302×596	818×302×596
		Package	mm	948×420×645	948×420×645	948×420×645
	Net weight/Gross weight		kg	41/44	41/44	41/44
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)
		Gas	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)
	Max. distance	Height	m	20	20	20
		Length	m	35	35	35
Loading quantity		40'GP/40'HQ	unit	124/142	120/139	110/132

Model	Outdoor unit			JASA-H24A4/ASI		
	Indoor unit			Duct	Cassette	Floor ceiling
				JASA-Hi-H24A4/ASI	JASA-Ca-H24A4/ASI	JASA-Ce-H24A4/ASI
Capacity	Cooling		kW	7.15	7.00	7.15
			Btu/h	24300	23800	24300
	Heating		kW	8	8	8
			Btu/h	27200	27200	27200
EER/COP			W/W	2.92/3.20	3.21/3.64	2.98/3.14
Power supply			V/Ph/Hz	220-240V ~ 50/60Hz		
Power input	Cooling		kW	2.45	2.18	2.40
	Heating		kW	2.50	2.20	2.55
Current input	Cooling		A	10.65	9.47	10.43
	Heating		A	10.87	9.56	11.09
Refrigerant charge volume			kg	2	2	2
Indoor unit	Air flow volume(SH/H/M/L)		CFM	617/588/529/470	735	617
			m³/h	1050	1250	1050
	ESP	Rated	Pa	25	0	0
		Range	Pa	0-50	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	43/42/40/38	47/45/41/39	49/48/45/43
	Dimension (W × D × H)	Outline	mm	1000 × 450 × 200	840 × 840 × 200	870 × 665 × 235
		Package	mm	1308 × 568 × 275	943 × 923 × 245	1033 × 770 × 300
	Net weight/Gross weight		kg	25/30	23/30	26/31
Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-
		Package	mm	-	1033 × 1038 × 112	-
	Net weight/Gross weight		kg	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	55	55	55
	Dimension (W × D × H)	Outline	mm	892 × 340 × 698	892 × 340 × 698	892 × 340 × 698
		Package	mm	1029 × 458 × 750	1029 × 458 × 750	1029 × 458 × 750
	Net weight/Gross weight		kg	53/57	53/57	53/57
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	25	25	25
		Length	m	50	50	50
Loading quantity		40' GP/40'HQ	unit	108/120	83/88	92/108

Model	Outdoor unit			JASA-H48A4/ASI		
	Indoor unit			Duct	Cassette	Floor ceiling
				JASA-Hi-H48A4/ASI	JASA-Ca-H48A4/ASI	JASA-Ce-H48A4/ASI
Capacity	Cooling	kW	14.0	14.0	14.0	
		Btu/h	47800	47800	47800	
	Heating	kW	15.0	15.0	15.0	
		Btu/h	51200	51200	51200	
EER/COP		W/W	2.80/3.41	2.59/3.41	2.59/3.41	
Power supply		V/Ph/Hz	220~240V ~50/60Hz			
Power input	Cooling	kW	5.0	5.4	5.4	
	Heating	kW	4.4	4.4	4.4	
Current input	Cooling	A	26.0	26.0	26.0	
	Heating	A	21.0	21.0	21.0	
Refrigerant charge volume		kg	3.7	3.7	3.7	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1177/1059/942/824	1059/1000/883/765	1295/1177/1059/883
			m³/h	2000/1800/1600/1400	1800/1700/1500/1300	2200/2000/1800/1500
	ESP	Rated	Pa	50	0	0
		Range	Pa	0-150	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	42/40/39/37	51/49/46/42	52/50/48/44
	Dimension (W × D × H)	Outline	mm	1400 × 700 × 300	840 × 840 × 290	1570 × 665 × 235
		Package	mm	1601 × 813 × 365	963 × 963 × 379	1729 × 770 × 300
	Net weight/Gross weight		kg	49/55	33/41	40/47
Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-
		Package	mm	-	1033 × 1038 × 112	-
	Net weight/Gross weight		kg	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	59	59	59
	Dimension (W × D × H)	Outline	mm	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820
		Package	mm	1083 × 573 × 973	1083 × 573 × 973	1083 × 573 × 973
	Net weight/Gross weight		kg	92/104	92/104	92/104
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30
		Length	m	75	75	75
Loading quantity		unit	47/53	48/53	54/62	

Model	Outdoor unit			JASA-H60A4/ASI		
	Indoor unit			Duct	Cassette	Floor ceiling
				JASA-Hi-H60A4/ASI	JASA-Ca-H60A4/ASI	JASA-Ce-H60A4/ASI
Capacity	Cooling		kW	15.6	15.0	15.4
			Btu/h	53200	51200	52500
	Heating		kW	17.0	17.0	17.0
			Btu/h	58000	58000	58000
EER/COP			W/W	2.89/3.54	2.78/3.62	2.85/3.54
Power supply			V/Ph/Hz	220-240V ~50/60Hz		
Power input	Cooling		kW	5.4	5.4	5.4
	Heating		kW	4.8	4.7	4.8
Current input	Cooling		A	25.8	25.8	25.8
	Heating		A	23.0	22.4	23.0
Refrigerant charge volume			kg	3.8	3.8	3.8
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1647/1354/1177/1000	1177/1118/942/824	1354/1295/1118/942
			m³/h	2800/2300/2000/1700	2000/1900/1600/1400	2300/2200/1900/1600
	ESP	Rated	Pa	50	0	0
		Range	Pa	0-200	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	50/45/44/42	54/52/50/48	54/53/49/45
	Dimension (W×D×H)	Outline	mm	1400×700×300	840×840×290	1570×665×235
		Package	mm	1678×808×365	963×963×379	1729×770×300
	Net weight/Gross weight		kg	56/63	36/44	42/49
Panel	Dimension (W×D×H)	Outline	mm	-	950×950×52	-
		Package	mm	-	1033×1038×112	-
	Net weight/Gross weight		kg	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	60	60	60
	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973
	Net weight/Gross weight		kg	96/108	96/108	96/108
Conne ction pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30
		Length	m	75	75	75
Loading quantity		40'GP/40'HQ	unit	47/53	48/53	54/62



## Control System Lineup

Control system		Product series	Duct type	Cassette type	Floor ceiling type
Wired controller	JASA-XK117		●	○	○
	JASA-XE71-42/G		○	○	○
Remote controller	JASA-YAW1F9		○	○	○
	JASA-YAP1F6		○	●	●
WiFi module (G-Cloud) <sup>*2</sup>	JASA-ME31C4 JASA-ME31C6		○	○	○
MODBUS gateway	JASA-ME50-00		○	○	○
Centralized controller (up to 36 indoor units)	JASA-CE52-24		○	○	○
Dry contact gateway <sup>*3</sup> (extended function board)	JASA-ME30-42		○	○	○
Door controller	JASA-MK03		○	○	○
BACnet gateway	JASA-ME30-44/D2		○	○	○

Note:

● means standard, ○ means optional.

\*1: Controller(cooling only)

\*2: Please contact the sales representative for WiFi module selection.

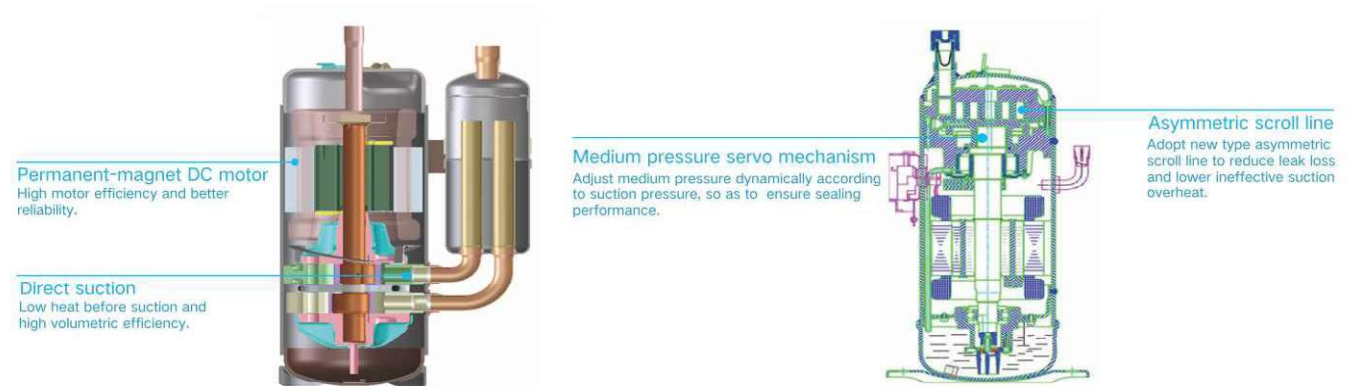
\*3: Function: ON/OFF input control, emergency stop input, error output, cold plasma control, fresh air control.



# 1 Energy-efficient • Comfortable

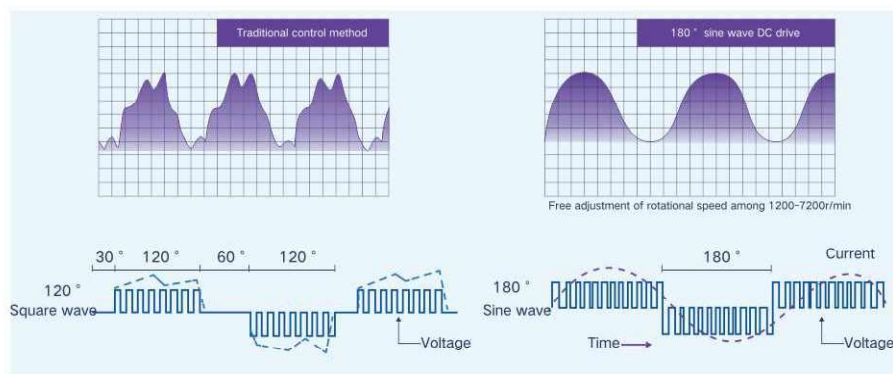
It adopts DC motor and the compressor's drive program is optimized. The lowest operation frequency is lowered and the compressor's output is decreased, more energy-saving and efficient.

## Application of DC inverter compressor



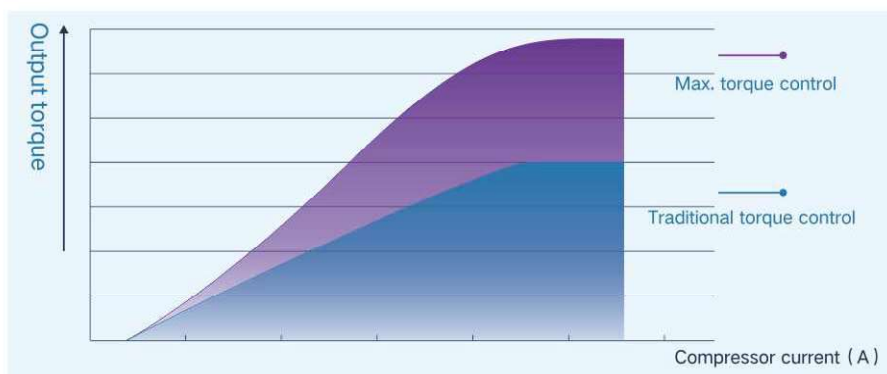
## Inverter 180 ° sine wave technology

» Thanks to inverter 180 ° sine wave technology, output of compressor is much smoother and fluctuation of temperature is smaller, more energy-saving and comfortable.



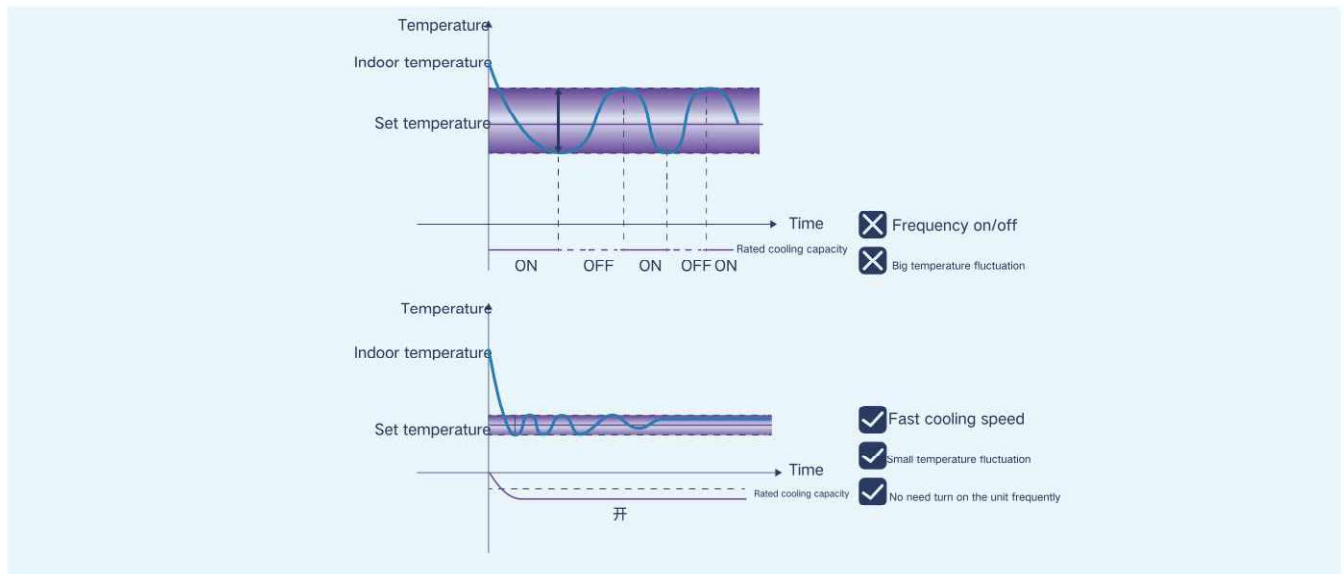
## Torque control technology

» Thanks to the minimum current and maximum torque control technology, the minimum current can output the maximum torque, reducing the consumption of motor winding and intelligent power module for higher efficiency.



## PID control technology

» Adopt smart PID capacity adjustment technology for quickly and accurately reaching set temperature. The comfort in the room is greatly improved thanks to small temperature fluctuation.



## 2 Constant Air Volume • High Static Pressure

### High static pressure design

» The air outlet static pressure of unit is up to 250Pa, with further air supply distance, suitable for various places.

» Users can freely adjust the static pressure among 0~250Pa according to the actual requirements, with high engineering adaptability.

### Constant air volume control

» Thanks to automatic constant air volume function, the unit can freely and intelligently adjust the fan for maintaining constant air volume output, convenient and reliable.

» Constant air volume is controlled by the current of motor.

### Smart filth blockage cleaning reminder

» The whole series indoor units have been equipped with filters for filtrating the sundries and hair in the air. The filth blockage of unit can be predicted by monitoring motor current and the change of rotation speed. The wired controller smartly reminds the user for cleaning.

## 3 Eco-friendly • Reliable

### CAN-Bus communication technology

» Non-polar communication with strong resistance against electromagnetic interference. Specialized shield wire is not needed for communication between units. Common communication wires can be used.



# Big Duct Type Unit High Capacity Series



It is a kind of split system that can be connected with air duct to realize cooling/heating in large space.



» DC inverter for high efficiency and energy saving.

» High static units for longer ducted runs.

» ESP is up to 250Pa.\*

» Static pressure is adjustable.




» Indoor fan can be adjusted according to the static pressure of air duct installed by customers.

\*This function is only fit for 20~40kW product models

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	DB (°C)
Cooling	35	24	27	19	-7~48
Heating	7	6	20	15	-15~24



## Control System Lineup

Control system		Product series	Duct split unit
Wired controller	JASA-XK46		●
	JASA-XE7A-24/H		○
	JASA-XE70-33/H		○
	JASA-JS13		○
	JASA-LE60-24/H1		○
Remote controller	JASA-YAP1F		○
MODBUS gateway	JASA-ME30-24		○
Centralized controller (up to 36 indoor units)	JASA-CE52-24/F		○

Note:

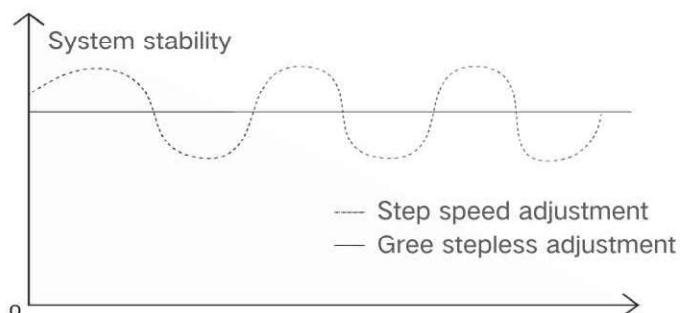
● means standard, ○ means optional. Smart zone controller should be selected with the wired controller at the same time.

# 1 Exquisite technique makes comfort ubiquitous

## DC inverter technology, comfortable and energy-saving

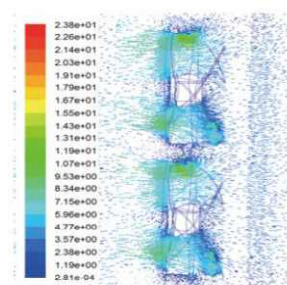
» Adopt DC inverter scroll compressor, with higher compression efficiency and wider operation frequency range.

» By adopting DC inverter fan, the efficiency is higher, the noise is lower and the control precision for stepless speed regulation is higher. Cooling is available under the ambient temperature range of  $-5^{\circ}\text{C} \sim 52^{\circ}\text{C}$ .



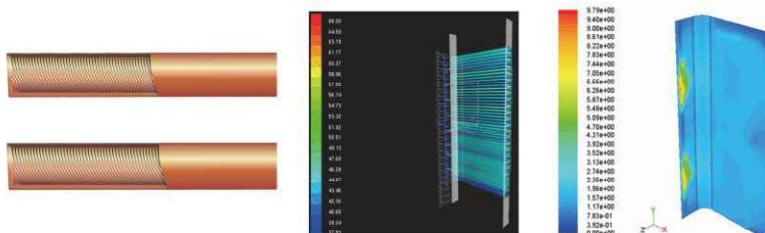
## Unique fan design for the optimal heat exchange

» Adopt a brand new fan design and unique installation method for motor, which enhances fan efficiency and heat exchange effect, effect. At the same time, fan vibration will be decreased and the comfort will be improved.



## Condenser simulation design for the optimal heat exchange

» Condenser adopts fine-draw fins and inner-threaded heat exchange pipe. Through simulation of wind field and stream, condenser heat exchange effect is greatly improved.



## Wide-angle air supply, comfortable everywhere

» Adopt wide air flow design and adopt high-efficiency centrifugal blades for wide-angle and long-distance air supply, creating natural and comfortable indoor environment.

## Refreshing appearance, fashionable and versatile

» Depth of slim indoor unit is as low as 0.4M for small occupation space, with black and white colors, fashionable and concise.



## Smart design for comfort

» Power-off memory function: Once power failure occurs during operation, the controller can memorize the operation status before power failure. When power recovered, the unit operates under the set modes before power failure.

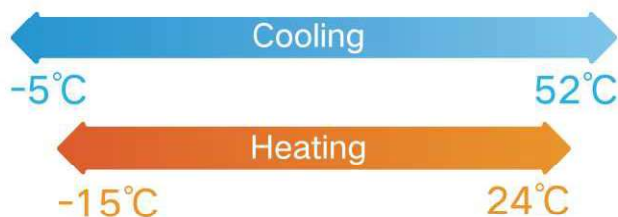
» 24h timer ON and timer OFF; set 24h timer ON and timer OFF by the wired controller.

» Smart monitoring: Optional gateway and MODBUS protocol for realizing remote control.

» PID algorithm adjustment: Automatically adjust the frequency according to the difference between room temperature and set temperature. When there's big difference between room temperature and set temperature, turbo heating/cooling will be activated; when room temperature is almost the same as set temperature, output capacity will be decreased to maintain the stability.



## Wide operation range (-15°C to 52°C)



## Voltage range for operation is wider, safe and reliable

» The designed air-cooled unit of 96,000 Btu/h can keep stable operation under wider voltage range (342V-456V), thus ensuring the safety of the unit and the staff.

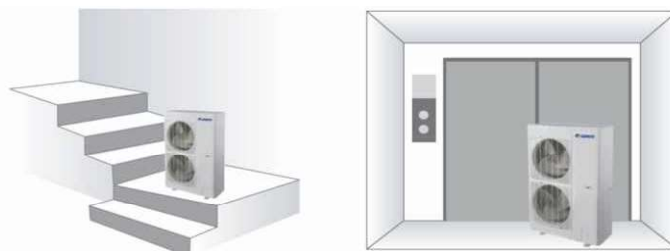


## 3 Humanized design, convenient for installation

### Side discharge casing, convenient for installation

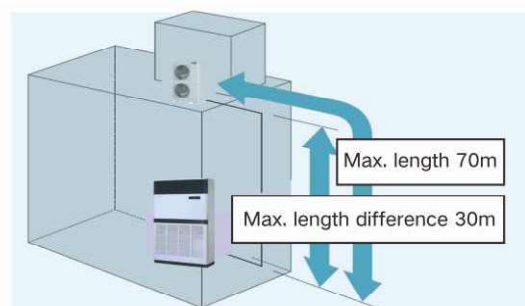
» The size of side discharge casing is smaller and the weight is lighter, which saves space greatly. The floor space will decrease by 30% and loading quantity will increase by 20%;

» Flexible transportation: it can be moved in or moved out of the passenger elevator. It can be installed in the wall, convenient for installation.



### Long pipes design, several installation choices

» The length of the pipe which connects IDU and ODU is 50m, and the max design fall is 30m, providing several installation choices for the user.



» Thanks to flexible mounting base and 5-way outlet pipe design, installation difficulty and labor cost are greatly decreased.

» Size of inverter outdoor unit is smaller, reducing 40% of floor space compared with the fixed-speed unit;

» Adopt new generation communication protocol; wiring between indoor unit and outdoor unit is simplified; you can select the power cord according to the requirement for communication.





Model				JASA-FI-H96A5/AL	
Nominal Capacity	Cooling		Btu/h	96000	
			kW	28.1	
	Heating		Btu/h	102000	
			kW	30.0	
	EER/COP		W/W	2.44/3.00	
Electrical Data			Btu/h-W	8.34/10.20	
	Power supply		V/Ph/Hz	380-415V 3N--50Hz	
	Power input	Cooling	kW	11.5	
	Rated power input		kW	15.4	
	Input current	Cooling	A	19.3	
	Rated current		A	24.6	
	Max .overcurrent protection		A	25	
	Min/Max voltage	Min/Max voltage(V)	V	342/456	
	Power cord spec	Electrical conduit size(Inch)	mm²xpcs	ODU: 2.5 IDU:1.5 × ODU:5 IDU:3	
Refrigerant	Type		R410A		
	Charge		kg	8.00	
Airflow volume			CFM	2354.00	
			m³/h	4000	
Outdoor quantity			unit	1	
Indoor unit	Sound pressure level		dB (A)	63/60/57	
	Sound power level		dB (A)	73/70/67	
	System operation control		Display panel		
	Dimension(W × D × H)	outline	mm	1200 × 400 × 1850	
		Package	mm	1363 × 513 × 2013	
Outdoor unit	Net Weight/Gross weight		kg	129/141	
	Sound pressure level		dB (A)	63	
	Sound power level		dB (A)	73	
	Dimension(W × D × H)	outline	mm	940 × 460 × 1615	
		Package	mm	1038 × 578 × 1765	
	Net Weight/Gross weight		kg	160/174	
Loading quantity		20' GP	set	22	
		40' GP/40'HQ	set	46/46	
Connetion pipe	Length		m	7.50	
	Gas additional charge		g/m	54.00	
	Outer diameter		mm	Φ9.52	
			mm	Φ22.2	
	Max. distance		m	30.00	
m			50.00		

## Control System Lineup

Control system		Product series	Duct split unit
Wireless remote controller	JASA-YAP1F		○
MODBUS gateway	JASA-ME30-24		○
Centralized controller (up to 36 indoor units)	JASA-CE52-24/F		○

Note:

● means standard, ○ means optional.