GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070
Tel: (+86-756) 852 2218 Fax: (+86-756) 866 9426
Email: gree@gree.com.cn Http://www.gree.com

HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

Add: Unit 2612, 26/F, Mira Place Tower A, 132 Nathan Road, Tsimshatsui, Kowloon, Hong Kong
Tel: (852) 3165 8898 Fax: (852) 3165 1029

Note:
Gree is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

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Distributor information

AIR-COOLED CLOSE CONTROL AIR CONDITIONER

Air-cooled Close Control Air Conditioner

Gree JKF Series Precision Air Conditioner for Machine Room is dedicated to the rooms that place computers, equipment, servers, etc. The unit adopts advanced design principle for system structure and also is equipped with the function of powerful and precise logic control. Through overall laboratory test of high standard and the strict control by production quality management system, the unit can efficiently control the ambient temperature and humidity with precision, which enables the long-term stable and continuous run of the unit and satisfies the precious air conditioning demands of transportation, power, IT and other industries. Cooling capacity of R410A models ranges from 5kW to 40kW. Every unit has reserved the long distance monitoring function. Up to 253 modules can be combined for operation.

Year-round operation | Overall detection | High control precision | No-duty operation | Various air outlets | High-efficiency filtration | Convenient maintenance | Energy-saving function

Excellent Man-machine Interface

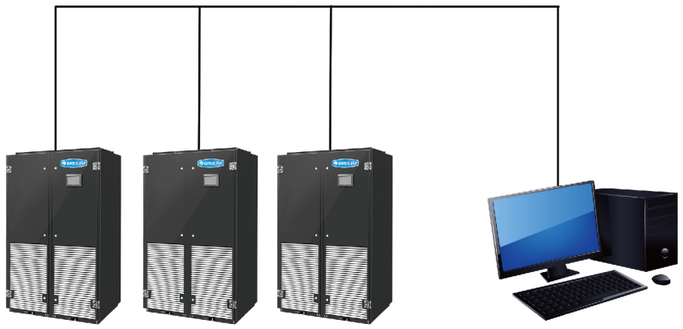
- 7 inch colorful LCD touch screen.
- Chinese and English interface optional.
- Dynamic display of operation status and operation curve.
- Up to 1000 historical warnings storage and display.
- Comprehensive monitoring of unit operation status, including ambient temperature and humidity, evaporator inlet and outlet temperature, unit component status, voltage, current, water accumulation and fire alarm, etc.

Warning Protection

- Phase loss or reverse protection, high pressure and low pressure protection, discharge temperature protection, overload protection, electric heating protection, humidity malfunction protection and floor water accumulation warning, etc.
- With auto startup when power resumes and power failure memory function. If power failures occur during operation, when power resumes, the air conditioner will automatically resume to the previous setting status, which actually requires no duty in the machine room.
- User linkage, fire control detection, fire alarm and other functions.

Long-distance Control

● Standard RS485 communication interface and ModBUS communication protocol.



● Convenient capacity extension: up to 253 modules can be combined for control, which is convenient and flexible for machine room extension.

Group Control

Backup, backup unit switchover, operation unit adjustment and mode conflict prevention can be achieved.

● Backup: when the unit in the group occurs malfunction, the backup unit will operate automatically and improve the reliability of the air conditioning system.

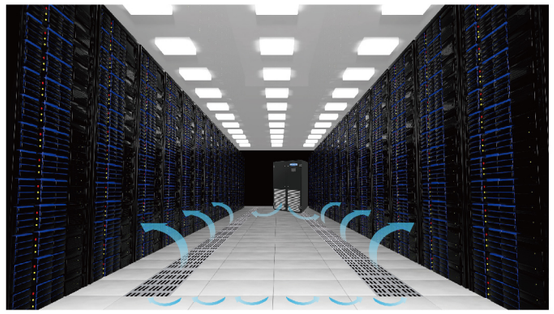
● Backup unit switchover: switch backup unit regularly to balance operation time and operation lifespan of unit.

● Operation unit adjustment: adjust operation unit quantity according to the load change of the machine room.

● Mode conflict prevention: avoid several units in the same machine room operate in the opposite modes at the same time (cooling/heating, humidifying/dehumidifying).

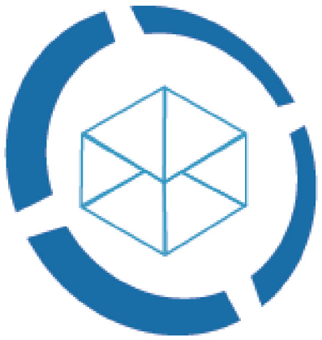
High Reliability

● None-stop and reliable operation for all year round.



● Wide operation temperature range. The unit can operate in cooling mode at outdoor ambient temperature from -35℃ to 48℃, which is applicable in both severe cold area and tropical region.

● High anti-electromagnetic interference ability, stable signal transmission, precise control and high system reliability.



● All accessories have been tested and inspected strictly.

● Independent electric control cabinet: electric control cabinet is isolated completely with the cold air system to prevent short circuit caused by condensation.

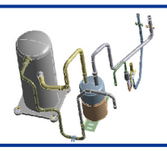
High Efficiency & Energy Savings

High-efficiency Fin-type Electric Heater

Even heating and high heat efficiency. The heater can start in different levels with low energy consumption according to load change.

Infrared Humidification and Electrode Humidification

Infrared humidifier has quick humidification for high adaptability to water quality. Electrode humidifier ensures germ-free operation for generating clean steam. Thus Humidification volume in the machine room is stable and meets its demand.

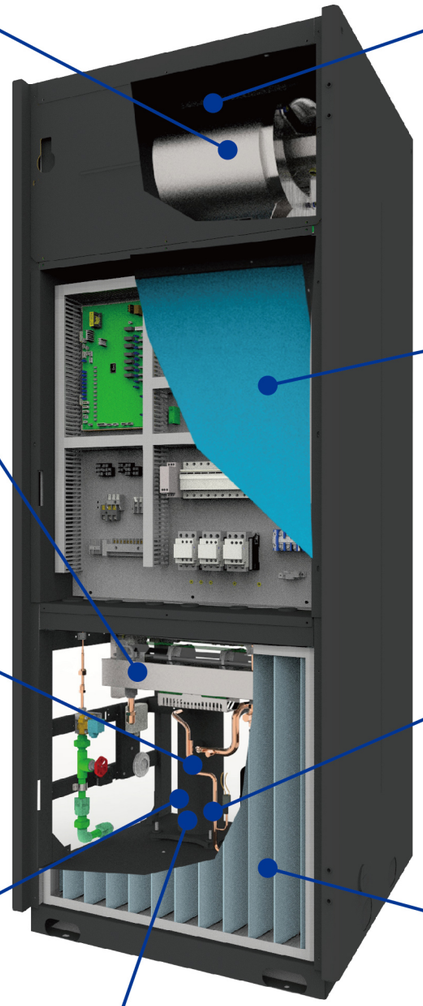


Dynamic Simulation and Damping Design of Electronic Component

Effectively reduces vibration stress and operation noise by utilizing dynamic simulation design.

Scroll Compressor

High-efficiency hermetic compressor with high efficiency and low noise.

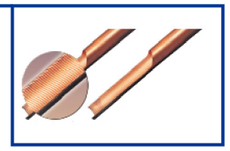


Refrigerant

High-efficiency and eco-friendly R410A refrigerant.

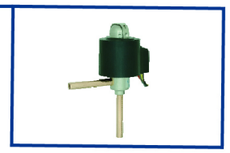
Centrifugal Fan

High transmission efficiency, low noise, big flow, small size and compact structure.



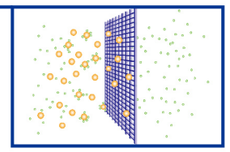
Heat Exchanger

Small seam hydrophilic aluminum foil fin and inner-threaded heat exchange copper pipe with high heat exchange efficiency.



Electronic Expansion Valve

Quick regulation speed and high control precision.



G4 Filter

Big-area air filter with metal frame structure, low wind resistance and high cleanness.

Convenient Maintenance

● Multiple air outlet ways: three air supply ways of free air outlet (with air cap), front air return and top air outlet (duct connected), top air return and bottom air outlet (floor air supply).

● Maintenance can be done at the front side, no need to reserve maintenance space at the side.

● Compact design for saving unit floor area and maintenance space in maximum.

● Convenient removal and installation: the panel adopts lock catch for fastening, which is convenient for removal.

Specifications

Class	Item		Unit \ Model	JKFD5CR/Na-E	JKFD5QSR/Na-E	JKFD7CR/Na-M	JKFD7QSR/Na-M
Characteristics of Units	Total Cooling Capacity / Sensible Cooling Capacity (22℃/ 50%)		kW	5.3/4.8		6.8/5.8	
	Total Cooling Capacity / Sensible Cooling Capacity (24℃/17℃)		kW	5.5/5.1		7.2/6.5	
	Total Cooling Capacity / Sensible Cooling Capacity (24℃/45%)		kW	5.4/4.9		7.0/6.3	
	Total Cooling Capacity / Sensible Cooling Capacity (26℃/50%)		kW	5.7/5.2		7.3/6.6	
	Heating Capacity		kW	2.7		2.7	
	Rated Humidifying Capacity		kg/h	2		4	
	Air Flow Volume		m^3/h	1900	1900	1950	1950
	External Static Pressure		pa	0	15	0	15
	Acoustic Noise of Indoor Units		dB(A)	58	56	63	55
	Range of Temp. Controlling and Precision			17～28℃±1℃		17～28℃±1℃	
	Range of Humidity and Precision			40～60%±5%		40～60%±5%	
	Power Supply			220V ～ 50Hz		380V 3N～ 50Hz	
Cooling System	Compressor		Type	Hermetic Scroll Type		Hermetic Scroll Type	
	Evaporator		Type	Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin		Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin	
	Condenser		Type	Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin		Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin	
	Refrigerant			R410A		R410A	
	Throttling Method			Electric Expansion Valve		Electric Expansion Valve	
Air Supply System	Indoor Units	Fan	Type	Low Noise and Centrifugal External-rotor		Low Noise and Centrifugal External-rotor	
			Type of Drive	Direct Drive		Direct Drive	
		Air Filter	Type	Plate Filter (G4)		Plate Filter (G4)	
Heating System	Heater	Type		Electric Heating		Electric Heating	
Humidifying System	Humidifier	Type		infrared		infrared	
		Mode of Control		Automatic Control by Mainboard		Automatic Control by Mainboard	
Evaporator	The Model of Indoor Units			JKFD5CR/Na-E(I)	JKFD5QSR/Na-E(I)	JKFD7CR/Na-M(I)	JKFD7QSR/Na-M(I)
	Dimension	Width	mm	800	800	800	800
		Depth	mm	700	700	700	700
		Height	mm	2250	1950	2250	1950
	Net Weight		kg	257	237	257	237
Outdoor Units	The Model of Outdoor Units			JKFD5P/Na-E(O)		JKFD7P/Na-E(O)	
	Quantity		set	1		1	
	Condensate Fan	Type		Low Noise Axial Type		Low Noise Axial Type	
		Type of Drive		Direct Drive		Direct Drive	
	Acoustic Noise of Outdoor Units		dB(A)	60		60	
	Dimension	Width	mm	900		900	
		Depth	mm	412		412	
		Height	mm	1350		1350	
	Net Weight		kg	71		71	
Connecting Pipe	Liquid Line of Refrigerants		mm×(unit)	Φ9.52×1		Φ9.52×1	
	Gas Pipe of Refrigerants		mm×(unit)	Φ12×1		Φ12×1	
	Method of Connection			Flared Joint		Flared Joint	

Notes:

1. This unit is designed, manufactured and inspected according to National Standard GB/T 19413-2010.
2. Tested ambient temperature of cooling capacity: indoor side dry bulb temp. 24℃, web bulb temp.17℃, outdoor side dry bulb temp. 35℃.
3. Noise was measured according to relavant standard of half-anechoic room, so in actual operation, noise may increase as ambient temperature changes.
4. Specific parameters shall be referred to unit nameplate and subject to change without prior notice.
5. Ambient temperature range for operation: -35℃～48℃.
6. All the above models can realize modular operation.
7. Any other special requirements, please contact us.

AIR-COOLED CLOSE CONTROL AIR CONDITIONER

Class	Item		Model / Unit	JKFD15CR/Na-M	JKFD15QSR/Na-M	JKFD20CR/Na-M	JKFD20QSR/Na-M
Characteristics of Units	Total Cooling Capacity / Sensible Cooling Capacity (22℃/ 50%)		kW	14.8/13.5		19.0/18.0	
	Total Cooling Capacity / Sensible Cooling Capacity (24℃/17℃)		kW	15.0/13.6		20.0/18.4	
	Total Cooling Capacity / Sensible Cooling Capacity (24℃/45%)		kW	14.9/13.8		19.8/18.8	
	Total Cooling Capacity / Sensible Cooling Capacity (26℃/50%)		kW	16.6/15.0		21.3/19.9	
	Heating Capacity		kW	5.5	7	10	10.5
	Rated Humidifying Capacity		kg/h	4		4	
	Air Flow Volume		m3/h	3700	4800	4150	6000
	External Static Pressure		Pa	0	75	0	75
	Acoustic Noise of Indoor Units		dB(A)	64	62	63	61
	Range of Temp. Controlling and Precision			17～28℃±1℃		17～28℃±1℃	
	Range of Humidity and Precision			40～60%±5%		40～60%±5%	
	Power Supply			380V 3N～ 50Hz		380V 3N～ 50Hz	
Cooling System	Compressor		Type	Hermetic Scroll Type		Hermetic Scroll Type	
	Evaporator		Type	Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin		Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin	
	Condenser		Type	Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin		Inner Screw Thread Pipe with Hyrophilic Film Aluminum Fin	
	Refrigerant			R410A		R410A	
	Throttling Method			Electric Expansion Valve		Electric Expansion Valve	
Air Supply System	Indoor Units	Fan	Type	Low Noise and Centrifugal External-rotor		Low Noise and Centrifugal External-rotor	
			Type of Drive	Direct Drive		Direct Drive	
		Air Filter	Type	Plate Filter (G4)		Plate Filter (G4)	
Heating System	Heater	Type		Electric Heating		Electric Heating	
Humidifying System	Humidifier	Type		infrared		infrared	
		Mode of Control		Automatic Control by Mainboard		Automatic Control by Mainboard	
Evaporator	The Model of Indoor Units			JKFD15CR/Na-M(I)	JKFD15QSR/Na-M(I)	JKFD20CR/Na-M(I)	JKFD20SR/Na-M(I)
	Dimension	Width	mm	980	980	980	980
		Depth	mm	950	950	950	950
		Height	mm	2250	1950	2250	1950
	Net Weight		kg	380	348	400	360
Outdoor Units	The Model of Outdoor Units			JKFD15P/Na-M(O)		JKFD20P/Na-M(O)	
	Quantity		set	1		1	
	Condensate Fan	Type		Low Noise Axial Type		Low Noise Axial Type	
		Type of Drive		Direct Drive		Direct Drive	
	Acoustic Noise of Outdoor Units		dB(A)	64		64	
	Dimension	Width	mm	1400		1400	
		Depth	mm	715		715	
		Height	mm	1130		1130	
	Net Weight		kg	136		136	
Connecting Pipe	Liquid Line of Refrigerants		mm×(unit)	Φ12×1		Φ16×1	
	Gas Pipe of Refrigerants		mm×(unit)	Φ16×1		Φ19×1	
	Method of Connection			Flared Joint		Flared Joint	

Notes:

1. This unit is designed, manufactured and inspected according to National Standard GB/T 19413-2010.
2. Tested ambient temperature of cooling capacity: indoor side dry bulb temp. 24℃, web bulb temp.17℃, outdoor side dry bulb temp.35℃.
3. Noise was measured according to relavant standard of half-anechoic room, so in actual operation, noise may increase as ambient temperature changes.
4. Specific parameters shall be referred to unit nameplate and subject to change without prior notice.
5. Ambient temperature range for operation: -35℃～48℃.
6. All the above models can realize modular operation.
7. Any other special requirements, please contact us.

Model	Normal			JKFD25C2/Na-M	JKFD25QS2/Na-M	JKFD25SX2/Na-M	JKFD40C2/Na-M	JKFD40QS2/Na-M	JKFD40SX2/Na-M
Power supply			Ph/V/Hz	3/380/50			3/380/50		
Cooling capacity (total/sensible)	22℃/ 50%		kW	26.5/23.8			39.4/36.0		
	24℃/17℃		kW	27.0/24.3			40.0/36.1		
	24℃/45%		kW	26.8/24.0			39.2/37.5		
	26℃/50%		kW	27.6/24.5			42.5/38.0		
Rated input	Cooling/Heating		kW	11.2/12.8	11.2/13.8	11.2/13.8	16.5/21.0		
Rated current	Cooling/Heating		A	17.02/19.45	17.02/20.97	17.02/20.97	24.24/31.82		
Heating capacity			kW	11	12	12	18		
Humidifying	Rated capacity		kg/h	8			8		
	Power input		kW	6			6		
Range of temp. controlling and precision			℃	17~28℃±1℃			17~28℃±1℃		
Range of humidity and precision			%	40~60%±5%			40~60%±5%		
ESP			Pa	0	100	100	0	100	100
Indoor units	**Model**	**Normal**		**JKFD25C2/Na-M(I)**	**JKFD25QS2/Na-M(I)**	**JKFD25SX2/Na-M(I)**	**JKFD40C2/Na-M(I)**	**JKFD40QS2/Na-M(I)**	**JKFD40SX2/Na-M(I)**
	Air flow volume		m^3/h	5220	7500	7500	13000	12500	12500
	Sound pressure level		dB(A)	62.5	68	68	68	70	70
	Dimension (W×D×H)	Outline	mm	1900×810×2250	1900×810×1950	1900×810×1950	2480×810×2250	2480×810×1950	2480×810×1950
		Package	mm	2000×910×2370	2000×910×2100	2000×910×2100	2580×910×2400	2580×910×2130	2580×910×2100
	Net weight/gross weight		kg	585/600	570/585	535/550	725/755	660/690	660/690
Outdoor units	**Model**			**JKFD13/NaA-M(O)**	**JKFD13/NaA-M(O)**	**JKFD13/NaA-M(O)**	**JKFD19/NaA-M(O)**	**JKFD19/NaA-M(O)**	**JKFD19/NaA-M(O)**
	Quantity		set	2			2		
	Air flow volume		m^3/h	9800			11900		
	Sound pressure level		dB(A)	64			64		
	Dimension (W×D×H)	Outline	mm	1080×1180×960			1080×1180×1040		
		Package	mm	1262x1133x634			1262x1133x634		
	Net weight/gross weight		kg	89/115			100/120		
Connecting pipe	Liquid/Gas		mm	φ12/16			φ16/19		
	Method of connection			Flared-fitting Joint			Flared-fitting Joint		
Loading quantity	40'GP/40'HQ		set	7/7	7/7	7/7	6/6	6/6	6/6

Notes:

1. The cooling capacity was tested when the outdoor temperature was as follows: Dry-bulb temperature was 35℃; Wet-bulb temperature was 24℃.
2. The noise value was tested in the semi-anechoic chamber but the actual value will be a little higher for the change of ambient temperature.
3. The temperature range of running environment is between -35℃~48℃.