



The related products of Oubo have obtained the above certification, and the specific product certification is detailed in the relevant product certification certificate

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FGZ SERIES SPECIALIZED DIRECT EXPANSION AIR CONDITIONING UNIT FOR LARGE SPACES

The FGZ series large-space dedicated air conditioning system, which employs a newly developed mortise-tenon splicing frameless air conditioning cabinet by Auburn, mainly consists of filters, heat exchangers, fans, motors, jet nozzles, and other components. It can meet various requirements for cooling and heating capacities as well as different installation forms. The unit is compact in structure, lightweight, aesthetically pleasing, and has excellent cooling and heating performance.

The FGZ series large-space dedicated air conditioning system can be divided into four types based on different usage types: chilled water type, air-cooled single-cooling type, air-cooled heat pump type, and northern heating type.

This unit adopts advanced domestic and international technology and manufacturing processes, and all components used are brand-name products. It features reliable quality, long range, low noise, ductless long-distance air delivery, and energy-saving. It can be widely applied in various industrial fields such as machinery manufacturing, automobile manufacturing, rail transit, metallurgy and chemical industry, storage and logistics (such as granaries), electronics and electrical appliances, food and drugs, pharmaceutical cooling warehouses, as well as in civil fields like venues, supermarkets, movie theaters, water parks, sports stadiums, restaurants, and swimming pools.

» Model Description

FGZ	30	D	A	P	Y
					N - Standard Type Unit; Y - Dedicated Type for Pharmaceutical Cooling Storage
					Refrigeration Method: P - Direct Expansion; W - Chilled Water
					Air Filter: A - Nylon Mesh; B - G3 Panel Type
					Unit Form: D - Ceiling-mounted; G - Wall-mounted
					Nominal Air Volume: number × 100m³/h
					Model Code: FGZ represents a dedicated air conditioning unit for large spaces.

Air-cooled Outdoor Unit

SW	075	H	E	A	N	N	D
							Air Discharge Type: D - Top Discharge; V - Side Discharge
							Control System Types: N type - Standard type with control cabinet; B type - Only power cabinet and protection switch, without control board; C type - Custom-made non-standard type
							Interconnecting Pipes for Indoor and Outdoor Units: N - Standard Pipe Run; T - Extended Pipe Run (less than 50 meters)
							Compressor Types: A-Scroll Fixed Frequency; B-Scroll Inverter with Enhanced Refrigerant; C-Screw Fixed Frequency; D-Screw Inverter; F-Scroll Inverter without Enhanced Refrigerant
							Refrigerant Types: E-R410A; B-R22; A-R134a; J-R32; E-R410A; B-R22; A-R134a; J-R32
							Refrigeration System Functions: H - Heat Pump Type 1; D - Single Cooling Type; J - Year-Round Cooling Type 1 (Cooling in ambient temperatures from -5 to 43°C); Q - Year-Round Cooling Type 2 (Cooling in ambient temperatures from -15 to 43°C)
							Product Model: Three digits
							Model Code: SW represents an air-cooled outdoor unit.

» Performance Parameters

Standard Chilled- Water Unit

Model FGZ			55	75	90	110
Rated Air Volume	m³/h		5500	7500	9000	11000
Cooling Capacity	kW		33.6	45.8	55	67.2
Heating Capacity	kW		56	74.6	91.4	102
Water Flow Rate	m³/h		5.8	7.9	9.5	11.6
Power Supply			380V/3N~/50Hz			
Motor Power	kW		2*0.55~4P	2*0.75~4P	2*1.1~4P	2*1.5~4P
Filter Net			Nylon net filter (standard), optional G3 panel filter			
Water Inlet/ Outlet	mm		DN40	DN40	DN50	DN50
Drainage Pipe	mm		DN25			
Outline Dimensions	L	mm	4100	5100	5100	5300
	W	mm	950	950	950	1150
	H	mm	650	750	850	850
Weight	kg		340	450	540	590

Note:

1. Cooling condition: Indoor unit inlet and outlet water temperature 7/12°C; incoming air dry and wet bulb temperature 27/19.5°C;
2. Heating condition: Indoor unit water inlet temperature 60°C; incoming air dry and wet bulb temperature 15°C;
3. For environments with a high amount of grease purification, the filter is not suitable for use;
4. The coil is a standard product, and non-standard design is available for special occasions. Considering the higher outlet air temperature and energy saving, it is not recommended to use a design with 6 rows or more of heat exchange tubes;
5. Specifications and parameters are subject to change without notice due to product improvements.

» Performance Parameters

Standard Air-Cooled Direct Expansion Unit (R410A)

Model FGZ			55	65	100
Cooling Capacity		kW	28.4	33.6	56
Heating Capacity		kW	31	36	58
Total Unit Power		kW	10.6	13.4	21.2
Indoor Unit	Rated Air Volume	m³/h	5500	6500	10000
	Motor Power	kW	2*0.75-4P	2*0.75-4P	2*1.5-4P
	Power Supply		380V/3N~50Hz		
	Filter Net		Nylon net filter (standard)		
	Ejection Range		25m		
	Outline Dimensions	L (mm)	4100	5100	5300
		W (mm)	950	950	1250
		H (mm)	650	750	850
	Water Pipe	DN	25		
	Weight	kg	340	440	520
Outdoor Unit	Outdoor unit model * number		SW100*1	SW125*1	SW200*1
	Refrigerant		R410A		
	Compressor Type		Hermetic Scroll Compressor		
	Number of Compressors		2	2	2
	Total Power	kW	9.1	11.9	17.1
	Single Unit Outline Dimensions	L (mm)	1250	1870	1870
		W (mm)	900	900	1100
		H (mm)	1720	1760	2030
	Weight	kg	277.5	357.5	514*1
Connecting Method		Threaded Connection			
Indoor-Outdoor Unit Connection	Liquid Pipe Specification	mm	φ12.7*2	φ12.7*2	φ15.88*2
	Air Duct Specification	mm	φ19.05*2	φ19.05*2	φ28.6*2

Note:

1. Cooling condition: Indoor unit incoming air dry and wet bulb temperature 27/19.5°C; Outdoor unit incoming air dry and wet bulb temperature 35/28°C;
2. Heating condition: Indoor unit incoming air dry bulb temperature 15°C; Outdoor unit incoming air dry and wet bulb temperature 7/6°C;
3. For environments with extensive grease purification, the use of filters is not recommended;
4. The data in the table above is based on testing with an indoor and outdoor connection pipe length of 7.5 meters. In actual use, the length of the indoor and outdoor unit connection pipes should be less than 30 meters, and the vertical height difference should be less than 15 meters. If the requirements are exceeded, products with long connection pipe configurations should be selected. For specific details, please contact our company for non-standard customization;
5. Specifications and parameters are subject to change without notice due to product improvements.

» Performance Parameters

Temperature Usage Range for Specialized Air Conditioning in Medical Cold Storage

Temp. Item	Nominal Cooling Conditions		Operating Range	
	Indoor Dry/ Wet Bulb Temp.	Outdoor Temp.	Indoor Temp.	Outdoor Temp.
Sing Cooling	18/14°C	35°C	14-20°C	5-45°C
Heat Pump	18/14°C	35°C	0-20°C	5-45°C
Chilled-Water Unit	18/14°C	7/12°C (Water Inlet/ Outlet)	14-20°C	

Specialized Chiller for Medical Cold Storage

Model FGZ			55	75	90	110
Rated Air Volume	m³/h		5500	7500	9000	11000
Cooling Capacity	kW		16.8	22	26.5	32
Heating Capacity	kW		56	74.6	91.4	102
Water Flow Rate	m³/h		2.9	3.8	4.6	5.5
Power Supply			380V/3N ~ /50Hz			
Motor Power	kW		2*0.75	2*1.1	2*1.1~4P	2*1.5~4P
Filter Net			Nylon Net Filter (Standard), Optional G3 Panel Filter			
Water Inlet/ Outlet	mm		DN40	DN40	DN40	DN40
Water Drainage Pipe	mm		DN25			
Outline Dimensions	L	mm	4100	4400	4700	4900
	W	mm	850	950	950	1050
	H	mm	650	750	750	750
Weight	kg		440	550	640	690

Note:

1. Cooling condition: Indoor unit water inlet and outlet temperature 7/12°C; incoming air dry and wet bulb temperature 18/14°C;
2. Heating condition: Indoor unit water inlet temperature 60°C; incoming air dry and wet bulb temperature 15°C;
3. For environments with extensive grease purification, the use of filters is not recommended;
4. The 6-row tube design is the standard product, and non-standard design is available for special occasions;
5. Specifications and parameters are subject to change without notice due to product improvements.

» Performance Parameters

Cool Storage-Specific Air-Cooled Direct Expansion Unit (R410A)

Model FGZ			65	75	130
Cooling Capacity		kW	26	31.2	52
Heating Capacity		kW	28	34	54
Total Unit Power		kW	10.95	14.1	21.2
Indoor Unit	Rated Air Volume	m³/h	6500	7500	13000
	Motor Power	kW	2*1.1	2*1.1-4P	2*1.5-4P
	Power Supply		380V/3N~50Hz		
	Filter Net		尼龙功率网（标配）		
	Ejection Range		25米		
	Outline Dimensions	L（mm）	3900	4400	4900
		W（mm）	850	950	1250
		H（mm）	700	750	850
	Water Pipe	DN	DN25		
	Weight	kg	440	520	680
Outdoor Unit	Outdoor unit model * number		SW100*1	SW125*1	SW200*1
	Refrigerant		R410A		
	Compressor Type		全封闭涡旋压缩机		
	Number of Compressors		2	2	2
	Total Power	kW	9.1	11.9	17.1
	Single Unit Outline Dimensions	L（mm）	1250	1870	1870
		W（mm）	900	900	1100
		H（mm）	1720	1760	2030
	Weight	kg	277.5	357.5	514*1
	Connecting Method		螺纹接口		
Indoor-Outdoor Unit Connection	Liquid Pipe Specification	mm	φ12.7*2	φ12.7*2	φ15.88*2
	Air Duct Specification	mm	φ19.05*2	φ19.05*2	φ28.6*2

Note:

1. Cooling condition: Indoor unit incoming air dry and wet bulb temperature 18/14℃; Outdoor unit incoming air dry and wet bulb temperature 35/28℃;

2. Heating condition: Indoor unit incoming air dry bulb temperature 15℃; Outdoor unit incoming air dry and wet bulb temperature 7/6℃;

3. For environments with extensive grease purification, the use of filters is not recommended;

4. The data in the table above is based on testing with an indoor and outdoor connection pipe length of 7.5 meters. In actual use, the length of the indoor and outdoor unit connection pipes should be less than 30 meters, and the vertical height difference should be less than 15 meters. If the requirements are exceeded, products with long connection pipe configurations should be selected. For specific details, please contact our company for non-standard customization;

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