



COMMERCIAL AIR CONDITIONERS

PRODUCT CATALOGUE

SPLIT COMMERCIAL UNIT

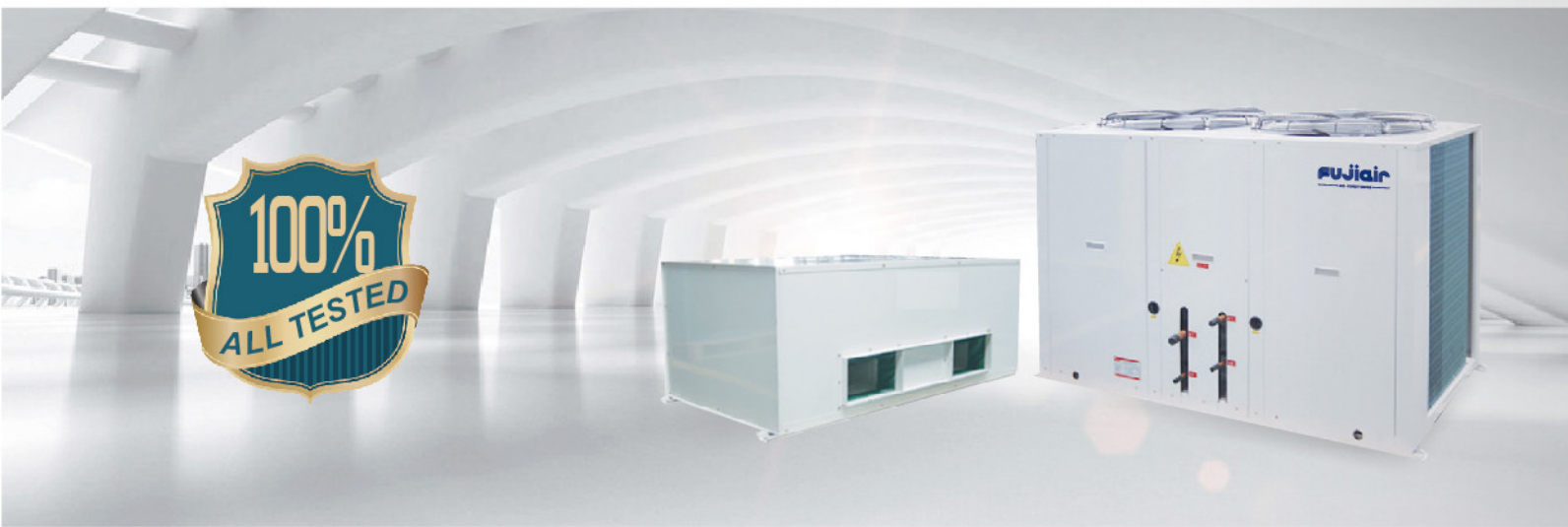


SPLIT COMMERCIAL UNIT

CEILING CONCEALED TYPE

FS-ST1C(H) 20W/N1- 104W/N1

Cooling Capacity 19.5kW - 103.7kW



FEATURES

• **Wide cooling capacity range**

11 sizes available ranging from 19.5 kW to 103.7 kW cooling capacity. Wide application as hotel, apartment, villa, factory, shopping center, office building and school etc.

• **Durable construction**

Panels and frame are made from metal steel protected with polyester powder painting to ensure total resistance to atmospheric agents.

• **Reliable scroll compressor**

High efficiency scroll compressor for the whole range, with built-in thermal overload cut-out and crankcase heater, mounted on rubber vibration dampers.

Famous brand compressor: Copeland, Danfoss and Panasonic.

• **Outstanding reliability and Quieter operation**

Light-weight design, and fewer moving parts design.

Multi-protection design and reliably: High/low pressure switch

protection, Three-phase protector, Overheat protection, Current overload protection and Time delay and Antifreeze switch etc.

Outdoor units are equipped with low noise axial fans, Indoor units are equipped with quiet centrifugal fans. Compact indoor design, long air supply distance.

• **Easy for installation**

Split installation, connected by means of flare/welding coupling. Units are completely assembled, internally wired, charged outdoor unit with refrigerant at the factory. The site work only needs to connect refrigerant pipes and communication wires between outdoor unit and indoor unit.

• **Easy operation line controller**

- Cooling/Heating/Fan/Auto
- Error indication
- Timing On/Off

SPECIFICATIONS

Model FS-ST1HW/N1		20	25	32	36	42	48	52	62	72	88	104	
Nominal cooling capacity*	kW	19.5	24.8	31.2	35.6	41.3	47.4	51.3	63.3	71.3	87.9	103.7	
Nominal heating capacity**	kW	22.6	28.9	35.8	40.8	46.9	54.4	58.9	72.6	81.9	100.0	115.8	
Cooling rated input current	A	12.87	16.62	21.09	22.88	26.99	32	32.89	41.29	47.55	50.23	70.25	
Heating rated input current	A	12.74	16.46	20.88	22.65	26.72	31.68	32.56	40.88	47.08	49.70	69.55	
Connection method	/	Flare	Flare	Flare	Flare	Welding	Welding	Welding	Welding	Welding	Welding	Welding	
Liquid pipe diameter	∅ mm	9.52x2	12.7x2	12.7x2	12.7x2	15.88/12.7	15.88/12.7	15.88/12.7	15.88x2	15.88x2	15.88x3	15.88x3	
Gas pipe diameter	∅ mm	15.88x2	15.88x2	19.05x2	22x2	28/19.05	28/19.05	28/19.05	28x2	28x2	28x3	28x3	
OUTDOOR UNIT	Compressor												
	Qty/circuit number	Nr.	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	3/3	3/3
	Cooling power input*	kW	7.2	9.3	11.8	12.8	15.1	17.9	18.4	23.1	26.6	28.1	39.3
	Heating power input**	kW	7.13	9.21	11.68	12.67	14.95	17.72	18.22	22.87	26.33	27.82	38.91
	Axial fans												
	Quantity	Nr.	1	1	1	1	2	2	2	2	2	2	2
	Airflow	m ³ /h	9400	9400	12500	14200	18800	18800	21500	26500	29880	36500	43500
	Sound pressure level***	dB(A)	67	67	68	70	71	71	71	71	71	71	71
	Net weight	kg	170	180	220	230	260	280	330	340	460	600	650
	INDOOR UNIT	Centrifugal fans											
Quantity/Power input		Nr x kW	2x0.25	2x0.32	2x0.55	2x0.55	2x0.8	2x0.8	2x0.8	2x1.5	2x1.8	2x2.2	2x4
Airflow		m ³ /h	3500/2500/2000	4500/3700/3000	5400/4200/3200	6400	7400	8500	9250	11450	12900	14800	17100
ESP		Pa	100	100	150	130	180	200	200	300	300	300	500
Drain pipe		mm	DN25	DN25	DN25	DN25	DN25	DN25	DN25	DN25	DN25	DN25	DN25
Sound pressure level***		dB(A)	64	64	66	66	68	68	68	68	69	69	70
Net weight		kg	90	100	150	160	180	200	220	230	300	320	400
Outdoor dimension L×W×H	mm	1120×830×1030			1180×960×1130		1640×880×1130		1840×970×1130		2120×970×1130		2243×1250×1520
Indoor dimension L×W×H	mm	1660×915×487			1660×915×588		1810×915×580		1840×1045×690		2065×1160×690		2165×1160×690
													1870×1230×995
													1870×1230×1096
													2100×1270×1298

Performance values refer to the following conditions:

* Cooling capacity is measured under the condition: indoor temperature DB 27°C / WB 19°C, ambient temperature DB 35°C / WB 24°C.

** Heating capacity is measured under the condition: indoor temperature DB 20°C / WB 15°C, ambient temperature DB 7°C / WB 6°C.

*** Sound pressure measured at a distance of 1 m and a height of 1.5 m above the ground in a clear field.

SPLIT COMMERCIAL UNIT

FLOOR STANDING DUCTED TYPE

FS-ST1C(H) 20W/N2 - 124W/N2

Cooling Capacity 20kW - 124kW

FLOOR STANDING FREE BLOW TYPE

FS-ST1C(H) 20W/N3 - 62W/N3

Cooling Capacity 20kW - 62kW



FEATURES

• Wide cooling capacity range

Available in 2 types, Floor standing ducted and floor standing free blow.

9 sizes available ranging from 20 kW to 124 kW cooling capacity.

• Outstanding reliability and Quieter operation

Patent design frame structure, elegant appearance and fewer moving parts design.

High efficiency scroll compressor for the whole range, with built-in thermal overload cut-out and crankcase heater, mounted on rubber vibration dampers.

It applies high pure and full-closed internal thread copper tube and aluminum fin through mechanical tube expansion, to make the copper and aluminum fin tighter to realize the optimum heat transfer ability.

The hydrophilic fins effectively decrease the thickness of condensate water and the thermal resistance of water film, hence It further improves the heat transfer efficiency. Heat transfer efficient increased by 67% comparing with normal evaporator. Air cooled condenser adopt high efficient grooved copper tube and aluminum fin, which possess high heat transfer efficiency.

Apply double suction type centrifugal impeller. The impeller is examined by dynamic balance and operated without any

malfunction in a long term to ensure fully air supply.

It adopts the world-famous control components in refrigerating system, such as DANFOSS, EMERSON etc. It also adopts the world-famous controllers, such as LG, OMRON etc.

The unit equips multiple protection devices to ensure safety operation, including high/low pressure, exhausting temperature, fans and compressor relay protection device etc.

Unit applies with double soundproof structure, compressor is independent from air handling system, noise will not disturb each other. There is sound-absorbing foam in the cover panel, further to reduce the noise.

• Easy for installation, Maintenance and Operation

Units are completely assembled, internally wired, charged outdoor unit with refrigerant at the factory. The site work only needs to connect refrigerant pipes and communication wires between outdoor unit and indoor unit.

The nylon filter could be easily mounted and dismantled for replacing and cleaning.

We can look up the unit state and error history and change the parameter, easy maintenance and operation.

SPECIFICATIONS

Model FS-ST1HW/N2(3)		20	25	32	36	52	62	72	104	124		
Nominal cooling capacity*	kW	20	25.5	30	37	52	62	74	105	124		
Nominal heating capacity**	kW	21	28	34	41	58	68	82	115	135		
Cooling rated current	A	16.5	21.8	25.6	27.8	40.2	48.2	56.1	81.8	97.8		
Heating rated current	A	16.4	21.3	24.8	27.7	38.9	47.4	55.1	78.2	96.0		
Cooling power input	kW	7.8	9.9	11.9	14.2	20	23.8	29.7	41	49		
Heating power input	kW	7.7	9.65	11.6	13.8	18.8	23.4	28.9	39	48		
Connection method	/	Flare	Flare	Flare	Welding	Welding	Welding	Welding	Welding	Welding		
Liquid pipe diameter	∅ mm	12.7x2	12.7x2	12.7x2	12.7x2	15.88x2	15.88x2	12.7x4	15.88x4	15.88x4		
Gas pipe diameter	∅ mm	19.05x2	19.05x2	19.05x2	22x2	28x2	28x2	22x4	28x4	28x4		
OUTDOOR UNIT	Compressor											
	Type	Nr.	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll		
	Outdoor dimension LxWxH	mm	1403x821x980		1560x880x1170		1810x1090x1190		1560x880x1170		1810x1090x1190	
	Outdoor quantity	Nr.	1				1		2			
	Net weight	kg	220	240	260	315	492	544	2x315	2x492	2x544	
INDOOR UNIT	Centrifugal fans											
	Power input	kW	1.1	1.5	1.5	2.2	2.2	4	5.5	5.5	7.5	
	Airflow	m ³ /h	4200	5000	6000	8000	10000	12000	15000	20000	24000	
	ESP (Top discharge)	Pa	150	150	150	150	150	200	200	200	250	
	ESP (Free blow)		0	0	0	0	0	0	—	—	—	
	Drain pipe	mm	R3/4	R1	R1	R1	R1	R1	R1	R1-1/4	R1-1/4	
	Sound pressure level*** (Top discharge)	dB(A)	60	61	62	63	65	65	68	73	73	
	Sound pressure level*** (Free blow)	dB(A)	59	60	61	63	64	64	—	—	—	
	Net weight	kg	155	180	245	270	310	380	420	460	460	
	Dimension	L x W	1250x500	1250x500	1480x500	1480x500	1580x700	1580x700	1850x880	1850x1500	1850x1500	
H (Top)		1600	1600	1600	1600	1900	1900	1900	1900	1900		
H (Side)		1800	1800	1800	1800	2200	2200	—	—	—		

Performance values refer to the following conditions:

* Cooling capacity is measured under the condition: indoor temperature DB 27°C / WB 19°C, ambient temperature DB 35°C / WB 24°C.

** Heating capacity is measured under the condition: indoor temperature DB 20°C / WB 15°C, ambient temperature DB 7°C / WB 6°C.

*** Sound pressure measured at a distance of 1 m and a height of 1.5 m above the ground in a clear field.

Due to FUJIAIR's ongoing commitment to quality, the specifications and dimensions are subject to change without notice and without incurring liability.



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