

SMART FLEX AIR SERIES

PRECISION AIR CONDITIONER



◎ Product introduction

SMART FLEX AIR series precision air conditioner integrates advanced energy saving and environmental protection technologies of the industry, relies on comprehensive development tools and technical resources designed in accordance with high standards, and ensures high reliability of the unit with high quality system design. IT can guarantee the uninterrupted, efficient and reliable operation of key IT equipment in the data center 365 days ×24 hours a year.

◎ Product feature

▼ High-efficient

- High-efficiency scroll compressor, operation stable and high-efficient.
- High-efficiency EC fan, which can adjust output automatically according to the situation on site.
- "V/A" type evaporator, adopting heat transfer design of large area "V" or "A", which brings high efficiency.
- Electronic expansion valve, accurately control and the wide flow characteristic, which brings accurate adjustment, wide operation range and better energy-saving efficiency.
- Electrode humidifier, humidification capacity is adjustable and supports automatic flushing and the efficiency of humidification is high.
- PTC electrical heater, high heating efficiency and adjustable heating power to adopt to the variety of heat load in data room.
- Equip with R410A green refrigerant, environmentally friendly.

◎ Application

- Medium and large-scale exchange and communication room
- Computer room and data center
- Laboratory and Librar
- Industrial control room and calibration center
- UPS and battery room



▼ Reliable

- Selected high-quality parts, efficient and stable system matching design
- Frame architecture design, solid and reliable, supports transverse welding-free disassembly, easy to handle
- Modular architecture design, 100% positive maintenance, single module failure does not affect the normal operation of other modules
- 365 days ×24 hours of uninterrupted stable operation throughout the year

▼ Smart

- 7 inches true color touch screen, friendly design, easy to operate
- Equipped with temperature and humidity alarm system, it can store more than 2000 fault alarm records
- Support maximum 64 set group network, to avoid competitive operation

- With the function of temperature and humidity curve display, the temperature and humidity changes of air conditioning are perfectly recorded
- RS485 intelligent communication interface, optional SNMP function, easy access to the monitoring system

◎ Application Scenario



Product Parameters

SMART FLEX AIR	Unit	025	030	035	040(Single)	045	050(Single)	040(Double)	050(Double)	060	070	080	090	100
Total cooling capacity ¹⁾	kW	26.9	32.7	37.2	41.8	45.9	51.7	42.6	52.8	61.7	71.1	81.8	92.1	101.3
Sensible capacity ¹⁾	kW	25	31.4	35	39.7	44.1	49.6	40.5	49.6	59.2	66.1	78.5	86.6	94.2
Air volume	m ³ /h	7800	8600	9500	12000	13000	13500	12500	13500	18700	19300	21600	24000	26000
Sensible heat ratio(SHR)	%	93	96	94	95	96	96	95	94	96	93	96	94	93
Heater	kW	6	6	6	9	9	9	9	9	9	9	12	12	12
Number of compressors	pcs	1						2						
Humidification capacity	kg/h	6	8	8	10	10	10	10	10	10	10	12	12	12
Number of fan	pcs	1	1	1	1	1	1	1	1	2	2	2	2	2
Fan type	/	EC Fan												
Full load current	A	28.8	32.7	35.1	42.2	48.3	52.1	43.8	53.6	58.7	63.5	76.3	81.7	96.6
Unit weight	kg	275	350	360	380	400	410	470	490	660	670	680	720	730
Unit width	mm	850	928	928	928	928	928	1378	1378	1828	1828	1828	1828	1828
Unit depth	mm	850	995	995	995	995	995	995	995	995	995	995	995	995
Unit height	mm	1960	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975

Note:

1. Parameter table

- 1) Parameter based on 24°C and 50%RH indoor return air temp and humidity, and the condensation temperature is 45°C;
2. Up-flow and down-flow type optional, and down-flow type can choose fan sinking or not;
3. Power supply type: 380V/50Hz 3N-;
4. The units of other cooling types, air supply type unit and customized products can be provided. Please contact with Ensmart.
5. Ensmart reserves the right of final interpretation of the data without prior notice if the data in the table is changed due to technical progress of the product.