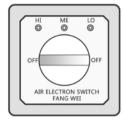


According to different usage requirements, the FFU control method could be selectable from single control, electric box small group control, touch screen small group control, computer group control etc, which enable to provide the best economical and reasonable solutions to end user base on the central air-conditioning system and the number of FFUs applied in the cleanroom. The control system can realize operation instructions, speed adjustment, fault indication, real-time monitoring of FFU operation status and other operations.

Single control





rotary switch

control panel

controllable FFU units: <20

FFU 02

FEU 04

FFU 03

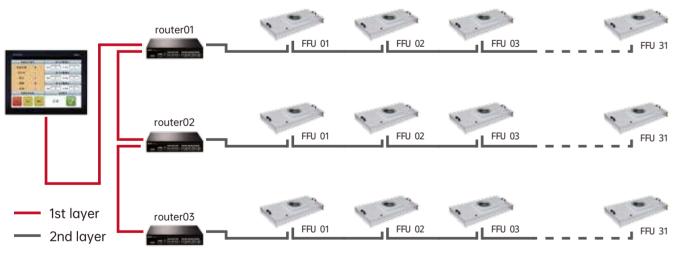
FFU

2 Electric box small group control

FFU 01

FFU 20

3 Touch screen small group control



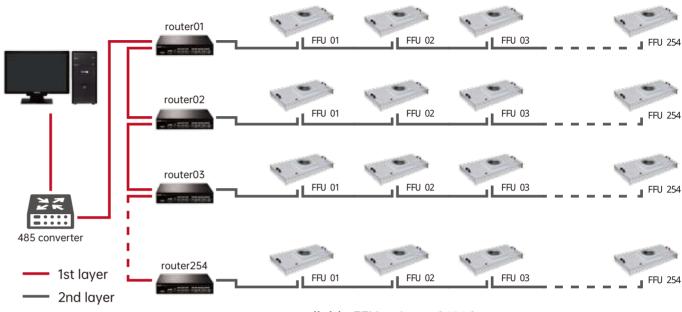
controllable FFU units: ≤254

Touch screen small group control system

1. Able to control each FFU unit's operation, stop and speed setting in the system, monitor the running status in real time and detect faults.

- 2. Able to control maximum 254 FFU units, each 31 FFU units shall be equipped with a router.
- 3. Able to distinguish the authority of different operators, different operation functions as per different user or user group.
- 4. Able to run energy management settings, enable to set time tasks and automatically control the FFU at specified time.
- 5. Enable terminal control with tablet PC, industrial touch screen or other industrial control equipment.
- 6. The terminal protocol can adopt Modbus RTU, TCP/IP and other communication protocols.

4 Computer group control



Computer group control system

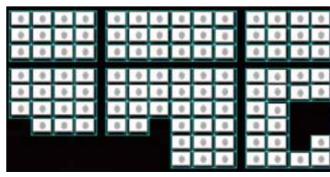
1. Able to centralized control a large number of FFU units including the operation, stop, rotation speed, and monitor the status and failure.

2. Able to provide on-site layout, visually display FFU location and status.

- 3. Able to divide groups arbitrarily in order to facilitate the management of FFU in different areas.
- 4. Able to run energy management settings, enable to set time tasks and automatically control the FFU at specified time.
- 5. Able to record the system log, enable to view historical operations, equipment failures and other information.
- 6. Able to distinguish the authority of different operators, different operation functions as per different user or user group.
- 7. Able to add customized functions.

The main interface of the computer group control system

Program	(F)	User	(U)	N	Mod	e (N	1)	Oper	ratio	on ((D)	He	lp (I	H)								-	б	1 X
Туре	Total	Ru	nning		Stop)	Failu	e	Off li	ne	(+	Zoom	n in	Q	Zoon	n out		Store	rt 🛛	Sto	a		Speed
All	215	215 0			215		0		0		_	~			9							P		. [
Group	10 0		0	10			0		0		● Failure ● Running ● Stop ● Off line Signal state II													
	0 0	0				0	0	0				.0		0	0	8				0	1.0			0
0 0	0 0	0	0	0	0	0		0	0		0	0	0			.0	0	0	0	0	0	0	.0	0
0 0	0 0	0	0	0	8		0	0			0						0	0	0	4	0	8	0	0
0 0	0 0	.0		0	0	.0	0		. 0		.0	.0				.0		.0	0	0	0	.0	0	
0 0	0 0	0	0	0	0	.0	0	.0	0.		0		.0.	0	.0	.0	0	0	0					
0 0	0 0	0	0	0	.0	0	.0	.0	0			0	.0	0	0	0		.0	0	- 6	- 0	0	0	0
0	8 0	0	0		0	0	0	.0	0			0	0	8	0	0		0	.0.	0	9	0	0	0
					0	0	0		0		0	0.	.0	0	0	.0	0	.0	0	0	0	0	0	0
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							Lav	out	of t	hο	can	nnla	ام د	anna	roon	n								



Layout of the sample cleanroom

AMS TURNING AIR INTO SOLUTIONS

controllable FFU units: ≤64516



1

Intelligent control

Use remote automatic control system and intelligent control to achieve a perfect match of mechanical components and electronic control systems.



Energy saving

DC direct current smooth voltage wave line to save energy.



Easy start and stop

Start-up current is only 1/5 AC fan, and can start up many fans at the same time; Good breaking performance.



Small calorific value

DC fan with high performance of small calorific value, which can reduce the calorific value of work area further.

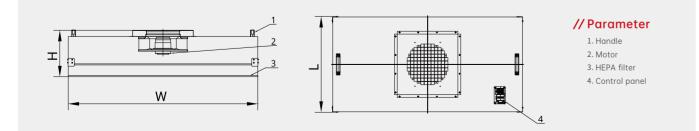


Large airflow and use in series

DC FFU is a ceiling unit with motor inside, used for turbulent and laminar flow clean room. It has feature of modularizing, the average air

Porduction parameter

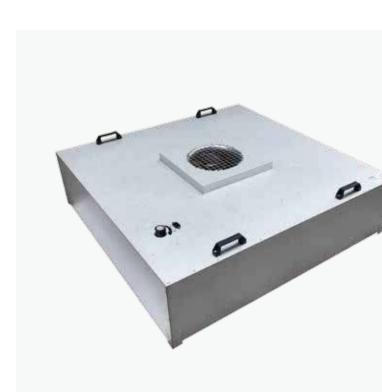
Pordu	uction pa	rameter	Notice: KLC test data as below, a	actual data of using depending or	n site conditions							
Model		FUDC-1	FUDC-2	FUDC-3	FUDC-4	FUDC-5						
Module size	e (WxLxHmm)	575x875x375	575x1175x375	615x1225x375	875x1175x375	1175x1175x415						
Air chambe	r material	Galvalume / aluminum / stainless steel										
Air flow (m ³	i/h)	800~900	1000~1100	1100~1200	1600~1700	2200~2300						
Air velocity	(m/s)	0.35~0.55										
Total pressu	ure(Pa)	210	210	210	210	210						
Power (W)		80	85	95	150	183						
Weight (kg)		26	36	39	41	44						
Noise dB (1 r	m below the HEPA filter)	55-63										
Vibration (n	nm/s)	0.2~0.7										
Power supp	ly	220V 1PH 50/60Hz(380V 3PH 50/60Hz/110V 1PH 50/60Hz)										
Control mod	de	Single control/touch screen small group control/computer										
Options		DOP inject port / DOP sample port / differential pressure drop test port / differential pressure drop alarm device										
	Size (WxHxDmm)	570x870x69	570x1170x69	610x1220x69	870x1170x69	1170x1170x69						
	Efficiency		99.99%0.3μm									
HEPA filter	Frame		High quality anodized aluminum									
	Initial pressure drop		110Pa@0.45m/s±15%									
	Trait	PU foam endless gasket										

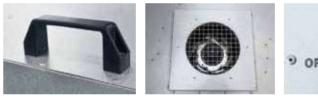




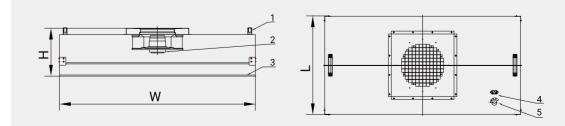


AC FFU KLC-FUAC





Pordu	uction par	ameter	Notice: KLC test data as below	v, actual				
Model		FUAC-1	FUAC-2					
Module siz	e (WxLxHmm)	575x875x375	575x1175x375					
Air chambe	er material			Galvalun				
Air flow (m	1 ³ /h)	800~900	1000~1100					
Air velocity	/ (m/s)							
Total press	sure(Pa)	175	185					
Power (W)		85	95					
Weight (kg	1)	27	37					
Noise dB (1	m below the HEPA filter)		·					
Vibration (mm/s)							
Power sup	ply	220V 1PH 50/60Hz						
Control mo	ode	Single control/tout						
Options		DOP inject port / DOP sample port / differenti						
	Size (WxHxDmm)	570x870x69	570x1170x69					
	Efficiency		•					
HEPA filter	Frame			High				
mol	Initial pressure drop							
	Trait			P				



AMS TURNING AIR INTO SOLUTIONS



Multi-speed levels adjustment

The design of multi-speed levels, which has advantages of no maintenance, little vibration and low noise.



Strict quality control

Before leaving factory, QC department will scan and test each by particle counter for quality guarantee based on international standard ISO14644-1. It can adopts group control which decreased rate of breakdown.



Small calorific value

High performance of small calorific value, which can reduce the calorific value of work area further.



l data of using depending on site conditions FUAC-3 FUAC-4 FUAC-5 615x1225x375 875x1175x3 175x1175x415 ume / aluminum / stainless steel 2200~2300 1100~1200 1600~1700 0.35 ~ 0.55 195 255 200 115 235 245 40 45 42 55-63 0.2~0.7 Hz(380V 3PH 50/60Hz/110V 1PH 50/60Hz) uch screen small group control/computer ntial pressure drop test port / differential pressure drop alarm device 610x1220x69 1170x1170x69 870x1170x69 99.99%0.3µm h quality anodized aluminum 110Pa@0.45m/s±15% PU foam endless gasket

// Parameter

- 1. Handle
- 2. Motor
- 3. HEPA filter
- 4. Power connector
- 5. Control panel