

Ultra-thin concealed ceiling unit



AC fan motor unit for horizontal concealed mounting

Control system

- Wired wall controller is standard
- Auto reset, operation mode control; with room sensor & coil sensor
- Daily timer or weekly timer
- Auto-diagnose, protections and error code display; jumpers configurations on electronic board

Design features

Ultra-thin, 205mm thickness, ceiling concealed type FCUs, suitable for hot/chilled water system.

Centrifugal fan

Well-known brand centrifugal fan with statically and dynamically balanced. Material ABS, low noise and high efficiency. The three-speed motor adopts a new type of plastic sealed motor, fireproof and dustproof; Protection grade IP44; High efficiency and energy saving.

High efficiency coil

Coil are made of $\phi 7$ copper tubes and high exchange surface area aluminum blue fins/Golden fins. All coils are 100% tested against leaks by 16bar (1.6MPa) air pressure.

Drain pan

EPS plastic drain pan, whole foam molding, good insulation effect; The design has a diversion channel, more smooth drainage.



AC03 (optional)

Optional

WIFI, RS485 ModBus, master-slave network control, 2-way valve, 3-way valve, electric heater

Performance data (2 pipes 3 rows)

Model		FCU34	FCU51	FCU68	FCU85	FCU102	FCU119	FCU136
Air volume m³/h	H	340	510	680	850	1020	1190	1360
	M	225	383	510	638	765	893	1020
	L	170	255	340	425	510	595	680
Cooling capacity W	H	1800	2700	3600	4500	5400	6300	7200
	M	1440	2160	2880	3600	4320	5040	5760
	L	1170	1755	2340	2925	3510	4095	4680
Heating capacity W	H	2700	4050	5400	6750	8100	9450	10800
	M	2160	3240	4320	5400	6480	7560	8640
	L	1755	2633	3510	4388	5265	6143	7020
Power input W	12Pa	36	50	60	74	93	112	130
	30Pa	43	57	70	84	105	121	151
High speed noise dB(A)	12Pa	37	39	41	43	45	46	46
	30Pa	40	42	44	46	47	48	48
Fan	Type	Double inlet, forward curve, multi blades, centrifugal fan						
	Qty	1	2					3
Motor	Type	Low noise, high precision ball bearing single-phase capacitive type						
	Qty	1	1	1	1	1	1	2
Heat exchanger	Type	Aluminium fin / golden fin + inner threaded copper tube						
	Water connection pipe	3/4"(DN20)						
	Max. working pressure	1.6MPa						
Water flow rate T/h		0.39	0.55	0.7	0.82	0.91	1.21	1.34
Water pressure drop kPa		12	16	20	23	26	27.6	28
Unit dimension mm	L*W*H	572*452*205	822*452*205	822*452*205	992*452*205	992*452*205	1052*452*205	1382*452*205

Remarks:

1. Cooling: inlet air temp. DB27°C/WB19.5°C, water inlet/outlet temp. 7°C/12°C.
2. Heating: inlet air temp. DB21°C, water inlet temp. 60°C; same water flow rate as for the cooling.
3. Sound pressure level is the test value of the unit running at high speed in an anechoic or semi anechoic chamber, 1 meter below and front of the unit.

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BLDC fan motor unit for horizontal concealed mounting.
Continuous air flow regulation and fan speed modulation

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Drain pan

EPS plastic drain pan, whole foam molding, good insulation effect; The design has a diversion channel, more smooth drainage.



AC03 (optional)

Drain pump

Drain pump is installed in the unit; An float switch inside as well to prevent from leaking

Optional

WiFi, RS485 ModBus, master-slave network control, 2-way valve, 3-way valve, electric heater

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High speed noise dB(A)	12Pa	35	38	40	42	45	46	46
	30Pa	39	40.5	43	45.5	47	48	48
Fan	Type	Double inlet, forward curve, multi blades, centrifugal fan						
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