

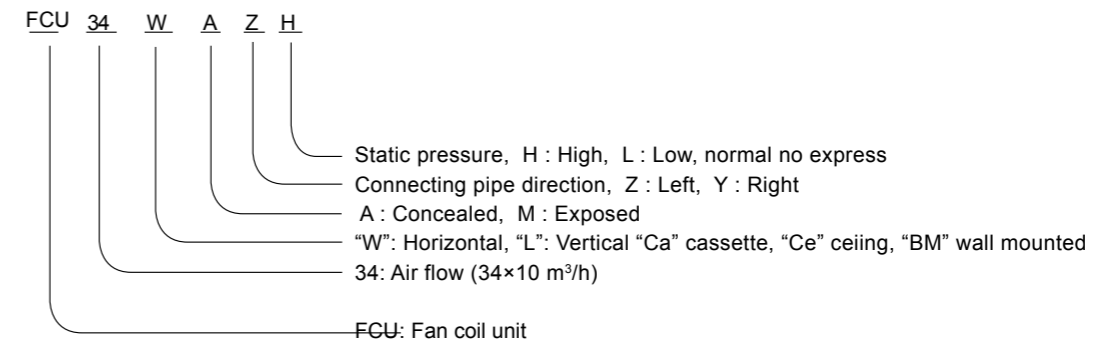


THE NEW CHOICE FOR INTELLIGENT LIFE

ALK
Central Air Conditioning
2014

Fan Coil

Instruction of model



Introduction

- ALK's Fan Coil units are ideally designed for the air condition of the residential, commercial and institutional buildings with low static pressure application. They provide flexible operation and control of indoor conditions in individual spaces.
- The units cover an air flow range of 340 to 2,380 m³/h nominal. The standard unit consists of a coil section, suitable for both chilled/hot water, a fan section with a direct driven centrifugal fan and a flat filter.

Outstanding features

- Units are manufactured in ISO9001-2000 certified facility.
- Units are manufactured in ISO14001-1996 certified facility.
- Units are rated in accordance with ARI 440 standard.

Specifications coils

All coils are constructed of 3/8 inch diameter copper tubes mechanically expanded into aluminum fins. The coil fins are spaced at 10 fins per inches standard. All coils are tested at 450 Psig air pressure and are suitable for up to 250 Psig working pressure(with manual air vent, piped to the drain pan).

Fans

All units are provided with forward curved centrifugal fans of the double inlet type that are designed for maximum efficiency and uniform air distribution. The fans are statically and dynamically balanced to ensure quiet operation and optimal performance. All fans are of the direct driven type.

Motors

Motors are driven by permanent split capacitor electric motors and are of the three-speed type (with internal thermal protection).

Filters

All units except the deluxe type are provided with aluminum mesh media flat filter. The deluxe type are provided with washable type flat filter.

Fan Coil

Drain Tray

All units are provided with a drain pan connection from one side. The drain pan is insulated on its underside to prevent condensation.

Casing

All units are constructed of heavy gauge galvanized steel without painting, except for special required models that need to be painted with polyester epoxy powder electro-static painting.

Insulation

All units are internally lined with 8mm fiber-glass insulation for the coil and fan section.

Optional

The following options can be provided:

Thermostat (include 3-speed switch)

Shut-off valve- Loose Item or built in unit.

Auxiliary drain tray

4-Pipe system units –Double coils(3-Row cooling+1-Row heating).

Synthetic media filter.

Polyester-epoxy powder electrostatic paint of the unit's casing for non decorative units.

3-way valve- Loose or built in unit.

Built-in electric heaters with the following standard features.

1. Finned tube electric heating elements.

2. Automatic thermal safety cutout.

Optional components for built-in electric heaters are available:

1. Manual thermal safety cutout.

2. Contactor (one normally open contactor).

All heaters are single stage.

All heaters are available in either 220-240V/single-phase/50Hz or 110V/single-phase/60Hz power supply.

Double panels construction with 25mm fiber glass isolation. Inner skin can be either solid or perforated.

Additional

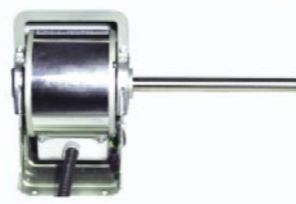
Please declare the direction of inlet / outlet water.



V- shap drain tray



easy taken out coil



high quality motor



50Hz 60Hz

Horizontal or Vertical fan coil unit (three rows) performance parameters

Product type			FCU34	FCU51	FCU68	FCU85	FCU102	FCU136	FCU170	FCU204
Air flow	High	m ³ /h	340	510	680	850	1020	1360	1700	2040
	Middle	m ³ /h	279	440	560	700	830	1100	1380	1640
	Low	m ³ /h	170	330	420	530	630	830	1040	1230
Total cooling capacity	High	W	2170	2950	4090	4700	5580	7370	9700	11290
	Middle	W	1953	2780	3670	4140	5130	6670	8930	10710
	Low	W	1579	2430	2970	3460	4380	5650	7620	9160
Sensible cooling capacity	High	W	1565	2115	3065	3535	4235	5745	7600	8900
	Middle	W	1450	1965	2655	3015	3730	4895	6490	7980
	Low	W	1240	1680	2045	2400	3050	3955	5310	6570
Total heating capacity	High	W	3600	5040	7030	7870	9420	12600	16200	19200
	Middle	W	3265	4510	5900	6625	8415	10800	14560	17350
	Low	W	2750	3720	4600	5250	6870	8755	11880	14200
Fan quantity			1	2	2	2	2	3	4	4
Fan motor input power		W	37	52	62	76	96	134	152	189
		W	44	59	72	87	108	156	174	212
		W	49	66	84	100	118	174	210	250
Power supply	V/PH/Hz	220/1/50/60								
Noise		dB(A)	37	39	41	43	45	46	48	50
		dB(A)	40	42	44	46	48	48	50	52
		dB(A)	42	44	46	47	49	50	52	54
Water flow	kg/h	365	560	705	880	980	1270	1670	1940	
Water resistance	kPa	4.2	7.8	15.1	21.5	32.1	12.6	20.5	23.6	
Draining pipe	mm	Rc3/4"(DN20)								
Dimension (L×W×H)	Horizontal concealed	mm	580×500×235	730×500×235	780×500×235	880×500×235	1080×500×235	1230×500×235	1430×500×235	1530×500×235
	Horizontal exposed	mm	850×500×260	1000×500×260	1050×500×260	1150×500×260	1350×500×260	1500×500×260	1700×500×260	1800×500×260
	Vertical concealed	mm	530×225×620	680×225×620	730×225×620	830×225×620	1030×225×620	1180×225×620	1380×225×620	1480×225×620
	Vertical exposed	mm	850×180×670	1000×180×670	1050×180×670	1150×180×670	1350×180×670	1500×180×670	1700×180×670	1800×180×670
Weight	Horizontal concealed	kg	14	17	18	20	22	32	35	37
	Horizontal exposed	kg	24	26	31	36	40	46	55	66
	Vertical concealed	kg	21	24	25	26	30	36	45	47
	Vertical exposed	kg	31	33	35	36	41	47	57	59

Performance values refer to the following conditions:

- Cooling capacity is measured under the condition : Air inlet temperature DB 27°C/WB 19.5°C ,water inlet/outlet temperature 7°C/ 12°C ;
- Heating capacity is measured under the condition : Ambient temperature DB 21°C ,water inlet temperature 60°C .

Cassette(Round-way)



FCU-51Ca
FCU-68Ca
FCU-85Ca



FCU-102Ca
FCU-136Ca
FCU-170Ca
FCU-204Ca
FCU-238Ca



50Hz 60Hz

Product type		FCU-51Ca	FCU-68Ca	FCU-85Ca	FCU-102Ca	FCU-136Ca	FCU-170Ca	FCU-204Ca	FCU-238Ca
Power supply		220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz
Cooling/heating capacity	W	2700/4050	3600/5400	4500/6750	5400/8100	7200/10800	9000/13500	10800/16200	12600/18900
Noise level	dB(A)	39	41	43	45	46	48	50	51
Air flow	m³/h	510	680	850	1020	1360	1700	2040	2380
Controlling method		Remote controller or wired controller							
Input power	W	50	65	70	110	130	150	185	190
Input current	A	0.23	0.28	0.32	0.49	0.55	0.68	0.85	0.91
Water flow	m³/h	0.52	0.62	0.86	0.98	1.22	1.58	1.92	2.10
Water resistance	kPa	14	16	18	22	25	39	44	44
Piping connection	Inlet	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"
	Outlet	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"
Unit dimension	Net(mm)	590x590x260	590x590x260	590x590x260	840x840x240	840x840x240	840x840x285	840x840x285	960x960x285
	Packaging(mm)	675x675x310	675x675x310	675x675x310	855x885x260	855x885x260	855x885x305	855x885x305	1040x1040x305
Panel dimension	Net(mm)	650x650x30	650x650x30	650x650x30	950x950x45	950x950x45	950x950x45	950x950x45	1140x1140x45
	Packaging(mm)	720x720x135	720x720x135	720x720x135	1005x1005x100	1005x1005x100	1005x1005x100	1005x1005x100	1195x1195x100



FCU-34Ca/1W
FCU-51Ca/1W
FCU-68Ca/1W
FCU-85Ca/1W

Cassette(One-way)

50Hz 60Hz

Product type		FCU-34Ca/1W	FCU-51Ca/1W	FCU-68Ca/1W	FCU-85Ca/1W
Air flow	m³/h	340	510	680	850
Cooling capacity	W	2050	2800	3650	4620
Heating capacity	W	3310	4500	6050	7630
Noise level	dB(A)	37	38	39	40
Fan quantity		1	1	1	1
Fan motor	Input power	W	37	52	76
	Power supply	V/PH/Hz	220,1~.50/60		
Water supply	kg/h	350	480	620	780
Water resistance	kPa	10.8	10.8	20	20
Panel weight	Net	kg	4	4	4
	Gross	kg	6	6	6
Unit weight	Net	kg	22	22	23
	Gross	kg	25	25	26
Panel dimension	Unit	mm	1050x470x18	1050x470x18	1050x470x18
	Packing	mm	1150x530x172	1150x530x172	1150x530x172
Unit dimension	Unit	mm	850x400x235	850x400x235	850x400x235
	Packing	mm	990x435x290	990x435x290	990x435x290
Inlet and outlet water pipe	mm	ZG3/4"(φ26)			
Draining pipe	mm	φ26			

Note:

- Standard cooling condition: Air inlet temp. DB: 27°C ,WB:19.5°C , Chiller water Inlet/Outlet temperature 7°C /12°C ;
- Standard heating condition: Air inlet temp. DB: 21°C ,hot water inlet temp. : 60°C .

Ceiling & floor



FCU-51Ce FCU-85Ce
FCU-68Ce FCU-102Ce
FCU-136Ce FCU-170Ce
FCU-204Ce FCU-238Ce



50Hz 60Hz

Product type		FCU-51Ce	FCU-68Ce	FCU-85Ce	FCU-102Ce	FCU-136Ce	FCU-170Ce	FCU-204Ce	FCU-238Ce
Power supply		220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz
Cooling/Heating capacity	W	2700/4050	3600/5400	4500/6750	5400/8100	7200/10800	9000/13500	10800/16200	12600/18900
Noise level	dB(A)	39	41	43	45	46	48	50	51
Air flow	m³/h	510	680	850	1020	1360	1700	2040	2380
Controlling method		Remote controller or wired controller							
Input power	W	45	50	80	110	120	150	170	188
Input current	A	0.19	0.23	0.36	0.49	0.54	0.68	0.82	0.90
Water flow	m³/h	0.52	0.62	0.86	0.98	1.22	1.58	1.92	2.10
Water resistance	kPa	14	16	18	22	25	39	44	44
Piping connection	Inlet pipe	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"
	Outlet pipe	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"
Unit dimension	Net(mm)	905x673x243	905x673x243	905x673x243	1288x673x243	1288x673x243	1672x673x243	1672x673x243	1672x673x243
	Packaging(mm)	995x765x311	995x765x311	995x765x311	1375x765x311	1375x765x311	1760x715x311	1760x715x311	1760x715x311

Note:

- Standard cooling condition: Air inlet temp. DB: 27°C ,WB:19.5°C , Chiller water inlet/outlet temperature 7°C /12°C ;
- Standard heating condition: Air inlet temp. DB: 21°C ,hot water inlet temp. : 60°C .

Wall mount



FCU-51BM
FCU-68BM
FCU-85BM
FCU-136BM



50Hz 60Hz

Product type		FCU-51BM	FCU-68BM	FCU-85BM	FCU-136BM
Power supply		220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz	220V/50Hz/60Hz
Cooling/Heating capacity	W	2700/4500	3600/5400	4500/6750	7200/10800
Air flow	m ³ /h	510	680	850	1360
Water flow	m ³ /h	0.52	0.62	0.86	1.22
Rated input power	W	30	39	45	90
Rated input current	A	0.14	0.18	0.21	0.43
Water drop	kPa	14	16	18	25
External ESP	Pa	0	0	0	0
Water inlet/outlet piping dimension	mm	ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"
Noise level	dB(A)	39	41	43	46
Net weight	kg	11.2	11.2	14.5	16.5
Net dimension	mm	795x285x215	795x285x215	990x330x230	1090x330x255
Packaging dimension	mm	905x370x283	905x370x283	1065x375x275	1145x375x315

Note:

- Standard cooling condition: Air inlet temp. DB: 27°C ,WB:19.5°C , Chiller water inlet/outlet temperature 7°C /12°C ;
- Standard heating condition: Air inlet temp. DB: 21°C ,hot water inlet temp. : 60°C .

Qingdao ALK Central Air Conditioning Co., Ltd

No.467 Changjiang Road, Qingdao City

Shandong Province, P. R. China 266555

Tel: +86 532 60981747 Fax: +86 532 60981749

Email: info@alktac.com

sales@alktac.com

www.alktac.com

