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PRODUCT

1 Introduction

Gree exposed fan coil units (FCUs), including cassette type, wall-mounted type, floor-ceiling type, and vertical exposed type, can be installed in various modes. They are of wide cooling capacity, complete functions, fashionable appearance, safe and reliable operation and other characteristics. Meanwhile, CE certification, Eurovent certification and other EU certification are available. They are applicable to office buildings, libraries, airport lounges, subway stations and other occasions. Users can choose expected FCUs according to actual application.

1.1 Nomenclature



1.2 lineup

1.2.1 Vertical mounted exposed type

Туре	Model	Product code	Cooling capacity (kW/ton)	Heating capacity (kW/ton)	Power supply	Appearance
	FP-22LM/D-K	EM51600300	1.4/0.40	2/0.57		
	FP-34LM/D-K	EM51600280	1.9/0.54	2.3/0.65		
Vertica	FP-51LM/D-K	EM51600290	2.8/0.80	3.4/0.97	220-240V 50Hz	(Alternative)
	FP-68LM/D-K	EM51600250	3.2/0.91	3.8/1.08		and a second
mo	FP-85LM/D-K	EM51600270	4.25/1.21	4.9/1.39		
unt	FP-102LM/D-K	EM51600310	5.0/1.42	5.9/1.68		
ed t	FP-119LM/D-K	EM51600260	5.3/1.51	6.45/1.83		
ype	FP-136LM/D-K	EM51600330	5.8/1.65	6.7/1.91		
()	FP-170LM/D-K	EM51600320	9.2/2.62	10.7/3.04		
	FP-204LM/D-K	EM51600340	10.1/2.87	11.5/3.27		
					Note: 1to	n =12000Btu/h = 3.517kW

1.2.2 Cassette type (AC)

Туре	Model	Product code	Cooling capacity (kW/ton)	Heating capacity (kW/ton)	Power supply	Appearance
	FP-85XD/B-T	EM520N0940	4.16/1.18	7.8/2.22		
	FP-102XD/B-T	EM520N0920	5.4/1.54	9/2.56		
	FP-125XD/B-T	EM520N0900	6.3/1.79	10/2.84		
	FP-140XD/B-T	EM520N0880	8/2.27	12/3.41	208-230V	
	FP-160XD/B-T	EM520N0860	9/2.56	14/3.98		
	FP-180XD/B-T	EM520N0840	10/2.84	16/4.55		
	FP-200XD/B-T	EM520N0820	13/3.7	19/5.4		

Туре	Model	Product code	Cooling capacity (kW/ton)	Heating capacity (kW/ton)	Power supply	Appearance
	FP-85XD/B-T	EM520N0930	4.15/1.18	5.6/1.59		
	FP-102XD/B-T	EM520N0910	5/1.42	6.5/1.85		
	FP-125XD/B-T	EM520N0890	6/1.71	7.8/2.22		
	FP-140XD/B-T	EM520N0870	8/2.27	9/2.56	-	
	FP-160XD/B-T	EM520N0850	8.7/2.47	10/2.84	-	
	FP-180XD/B-T	EM520N0830	9.5/2.7	11/3.13		
	FP-200XD/B-T	EM520N0810	13/3.7	14.6/4.15		
	FP-68XDT/B-K	EM520N0990	3.5/1	5.8/1.65	-	
	FP-85XDT/B-K	EM520N0960	4.1/1.17	6.4/1.82	-	
	FP-102XDT/B-K	EM520N1460	5.4/1.54	8/2.27	-	
	FP-125XDT/B-K	EM520N0970	6/1.71	9/2.56	-	
Cassette	FP-140XDT/B-K	EM520N1480	6.4/1.82	9.5/2.7	220-240V	
type	FP-180XDT/B-K	EM520N0980	8/2.27	11.5/3.27	- 50HZ	
	FP-200XDT/B-K	EM520N1440	9/2.56	12.5/3.55	-	
	FP-85XD/B-T(E)	EM520N1300	4.5/1.28	5.4/1.54		
	FP-102XD/B-T(E)	EM520N1310	5/1.42	6.1/1.73	-	
	FP-125XD/B-T(E)	EM520N1320	6/1.71	6.9/1.96	-	
	FP-140XD/B-T(E)	EM520N1330	7.4/2.1	8.4/2.39		
	FP-160XD/B-T(E)	EM520N1340	8.4/2.39	9/2.56		
	FP-180XD/B-T(E)	EM520N1350	9.5/2.7	10.5/2.99		
	FP-68XDT/B-K(E)	EM520N1260	3.5/1	5.8/1.65		
	FP-85XDT/B-K(E)	EM520N1270	4.5/1.28	6.8/1.93		
	FP-125XDT/B-K(E)	EM520N1280	6/1.71	9.2/2.62		
	FP-180XDT/B-K(E)	EM520N1290	8/2.27	12/3.41		
	FP-51XD/A-K	EM520N1170	2.75/0.78	3.4/0.97		76
Cassette type	FP-68XD/A-K	EM520N1160	3.3/0.93	3.8/1.08	220-240V	
	FP-238XD/C-K	EM520N1390	12/3.41	13/3.7	50Hz	

Note: 1ton =12000Btu/h = 3.517kW

1.2.3 Cassette type (DC)

Type	Model	Product	Cooling capacity (kW/ton)		Heating capacity (kW/ton)		Power	Appearance
Type	Model	code	EU	Others	EU	Others	supply	Appearance
	FPD-51XD/A-S	EM520N1580	3.1/0.88	3.4/0.97	3.55/1.01	5.6/1.59		- and the
	FPD-68XD/A-S	EM520N1500	3.9/1.11	4.25/1.21	4/1.14	6.3/1.79		
	FPD-85XD/A-S	EM520N1570	4.75/1.35	5.1/1.45	5.65/1.61	8.4/2.39		
	FPD-102XD/A-S	EM520N1540	5.15/1.46	5.7/1.62	6.1/1.73	9/2.56		
A series	FPD-119XD/A-S	EM520N1550	6.7/1.91	7.3/2.08	7.6/2.16	11.5/3.27	220 50	
cassette type	FPD-136XD/A-S	EM520N1530	7.6/2.16	8.2/2.33	8.7/2.47	13/3.7)-240V)/60Hz	
	FPD-170XD/A-S	EM520N1510	9/2.56	9.6/2.73	10.4/2.96	15.4/4.38	l	
	FPD-204XD/A-S	EM520N1520	11.1/3.16	12/3.41	12.2/3.47	18.7/5.32		
	FPD-238XD/A-S	EM520N1560	11.5/3.27	12.5/3.55	12.6/3.58	19.8/5.63		

1.2.4 Wall mounted type (DC)

Туре	Model	Cooling capacity (W)	Product code	Air flow (m³/h)	Power supply	Remarks	
	FPD-34BB4/A-K	EM55002580	2.2/0.63	2.4/0.68			
	FPD-51BB4/A-K	EM55002600	2.7/0.77	2.9/0.82	220-240V 50Hz		
	FPD-68BB4/A-K	EM55002590	3.6/1.02	3.9/1.11		220-240V	
A series	FPD-85BB4/A-K	EM55002610	4.3/1.22	4.7/1.34			
mounted	FPD-34BB6/A-K	EM55002630	2.2/0.63	2.4/0.68			
	FPD-51BB6/A-K	EM55002640	2.7/0.77	2.9/0.82			
	FPD-68BB6/A-K	EM55002650	3.6/1.02	3.9/1.11			
	FPD-85BB6/A-K	EM55002660	4.3/1.22	4.7/1.34			

1.2.5 Wall mounted type (AC)

Туре	Model	Cooling capacity (W)	Product code	Air flow (m³/h)	Power supply	Remarks
	FP-34BA2/D-K(E)	EM55002370	2/0.57	2.3/0.65		
	FP-51BA2/D-K(E)	EM55002410	2.5/0.71	2.8/0.8		
	FP-68BA2/D-K(E)	EM55002450	3.6/1.02	4.1/1.17		
	FP-85BA2/D-K(E)	EM55002490	4/1.14	4.5/1.28		
	FP-34BA2/D-K	EM55001810	2/0.57	2.7/0.77	220-240V	
	FP-51BA2/D-K	EM55001820	2.5/0.71	3.2/0.91	50Hz	
	FP-68BA2/D-K	EM55001830	3.6/1.02	4.6/1.31		
	FP-85BA2/D-K	EM55001840	4.2/1.19	5.4/1.54	_	
	FP-51BWA2/A-K(E)	EM55002310	1.4/0.4	2/0.57		1
	FP-85BWA2/A-K(E)	EM55002340	3.1/0.88	3.3/0.94		
	FP-34BA2/B-D	EM55000320	2.1/0.6	3.15/0.9		
	FP-51BA2/B-D	EM55000330	2.7/0.77	4.05/1.15	200 2201/	
	FP-68BA2/B-D	EM55000340	3.6/1.02	5.4/1.54	200-230V 60Hz	
	FP-85BA2/B-D	EM55000350	4.2/1.19	6.3/1.79	00112	
	FP-102BA2/B-D	EM55000360	5.4/1.54	8.5/2.42		
wall	FP-34BA3/D-K(E)	EM55002380	2/0.57	2.3/0.65		
mountou	FP-51BA3/D-K(E)	EM55002420	2.5/0.71	2.8/0.8		
	FP-68BA3/D-K(E)	EM55002460	3.6/1.02	4.1/1.17		
	FP-85BA3/D-K(E)	EM55002500	4/1.14	4.5/1.28		
	FP-34BA3/D-K	EM55002000	2/0.57	2.7/0.77		
	FP-51BA3/D-K	EM55002010	2.5/0.71	3.2/0.91		
	FP-68BA3/D-K	EM55002020	3.6/1.02	4.6/1.31		
	FP-85BA3/D-K	EM55002030	4.2/1.19	5.4/1.54	220-240V	
	FP-51BWA3/A-K(E)	EM55002320	1.4/0.4	2/0.57	50Hz	
	FP-85BWA3/A-K(E)	EM55002350	3.1/0.88	3.3/0.94		
	FP-51BWA3/A-K	EM55001430	1.5/0.43	2.25/0.64		
	FP-85BWA3/A-K	EM55001510	2.4/0.68	3.6/1.02		
	FP-34BA3/B-K	EM55001720	1.85/0.53	2.45/0.7		
	FP-51BA3/B-K	EM55001730	2.65/0.75	3.05/0.87		
	FP-68BA3/B-K	EM55001750	3.5/1	3.85/1.09		
	FP-85BA3/B-K	EM55001740	4.55/1.29	4.8/1.36		

Туре	Model	Cooling capacity (W)	Product code	Air flow (m³/h)	Power supply	Remarks	
	FP-34BA3/B-D	EM55001760	2.1/0.6	3.15/0.9			
	FP-51BA3/B-D	EM55001800	2.7/0.77	4.05/1.15			
	FP-68BA3/B-D	EM55001770	3.6/1.02	5.4/1.54	208-230V 60Hz		
	FP-85BA3/B-D	EM55001780	4.2/1.19	6.3/1.79	00112		
	FP-102BA3/B-D	EM55001790	5.4/1.54	8.5/2.42			
10/-11	FP-34BA4/D-K(E)	EM55002390	2/0.57	2.3/0.65			
vvali	FP-51BA4/D-K(E)	EM55002430	2.5/0.71	2.8/0.8			
mounteu	FP-68BA4/D-K(E)	EM55002470	3.6/1.02	4.1/1.17			
	FP-85BA4/D-K(E)	EM55002510	4/1.14	4.5/1.28	220-240V		
	FP-34BA4/D-K	EM55002040	2/0.57	2.7/0.77	50Hz		
-	FP-51BA4/D-K	EM55002050	2.5/0.71	3.2/0.91			
	FP-68BA4/D-K	EM55002060	3.6/1.02	4.6/1.31			
	FP-85BA4/D-K	EM55002070	4.2/1.19	5.4/1.54			

Note: 1ton =12000Btu/h = 3.517kW

1.2.6 Floor-ceiling type (DC)

Туре	Model	Product code	Cooling capacity (kW/Ton)		Heating capacity (kW/Ton)		Power	Appearance
			EU	Others	EU	Others	supply	
	FPD-34ZD/A-S	EM56000410	2.6/0.74	2.8/0.80	3.5/1.00	5.3/1.51		
	FPD-51ZD/A-S	EM56000400	3/0.85	3.2/0.91	3.9/1.11	5.8/1.65		
	FPD-68ZD/A-S	EM56000450	3.5/1.00	3.8/1.08	4.4/1.25	6.7/1.91	22	
A series	FPD-85ZD/A-S	EM56000420	4.1/1.17	4.5/1.28	5.2/1.48	8/2.27	20-24	
floor- ceiling	FPD-102ZD/A-S	EM56000430	5.4/1.54	5.8/1.65	6.4/1.82	9.8/2.79	0V~5	
type	FPD-119ZD/A-S	EM56000440	5.7/1.62	6/1.71	7.1/2.02	10.8/3.07	0/60H	
	FPD-136ZD/A-S	EM56000370	6.6/1.88	6.9/1.96	7.7/2.19	12.7/3.61	ц Ц	
	FPD-170ZD/A-S	EM56000470	8.6/2.45	9/2.56	10.9/3.10	16.7/4.75		-
	FPD-204ZD/A-S	EM56000360	9.9/2.81	10.5/2.99	12/3.41	18.5/5.26		.

Туре	Model	Product code	Cooling (kW/	Cooling capacity (kW/Ton)		Heating capacity (kW/Ton)		Appearance	
			EU	Others	EU	Others	supply		
	FP-34ZD/B-K	EM56000340	2.4/0.68	2.6/0.74	3/0.85	5/1.42			
	FP-51ZD/B-K	EM56000330	2.65/0.75	2.9/0.82	3.5/1.00 5.3/1.51				
	FP-68ZD/B-K	EM56000350	3.35/0.95	3.6/1.02	4.35/1.24	6.4/1.82			
B series	FP-85ZD/B-K	EM56000460	3.4/0.97	3.65/1.04	4.4/1.25	6.5/1.85	220-2		
floor- ceiling	FP-102ZD/B-K	EM56000380	5.2/1.48	5.7/1.62	6.3/1.79	9.8/2.79	240V~		
type	FP-119ZD/B-K	EM56000390	5.9/1.68	6.8/1.93	7.2/2.05	11.4/3.24	50Hz		
	FP-136ZD/B-K	EM56000280	6/1.71	6.9/1.96	7.3/2.08	11.5/3.27			
	FP-170ZD/B-K	EM56000300	9.4/2.67	9.9/2.81	11.6/3.30	17.4/4.95		(
	FP-204ZD/B-K	EM56000310	10/2.84	10.5/2.99	12.5/3.55	19/5.40			

1.2.7 Floor-ceiling type (AC)

1.3 Specifications

1.3.1 Performance data (nominal conditions)

♦ Vertical mounted exposed type

	Model		FP-22LM/D-K	FP-34LM/D-K	FP-51LM/D-K	FP-68LM/D-K	
Dowor ovetem	Туре	V-Ph-Hz		220-240V	AC, 50Hz		
Power system	Input	W	35	46	56	66	
	High	CFM	177	235	341	400	
	riigii	m³/h	300	400	580	680	
Air flow volume	Modium	CFM	147	206	294	312	
	Medium	m³/h	250	350	500	530	
	Low	CFM	118	177	247	224	
	LOW	m³/h	200	300	420	380	
Capacity	Cooling	W	1400	1900	2800	3200	
Сарасну	Heating	W	2000	2300	3400	3800	
Water system	Cooling water flow volume	l/s	0.07	0.09	0.14	0.16	
	Heating water flow volume	l/s	0.09	0.11	0.17	0.19	
	Cooling pressure drop	kPa	10	15	18	21	
	Heating pressure drop	kPa	20	22	27	30	
Sound p	oressure level	dB(A)	36	38	39	42	
Cail	Туре -		Aluminum fin-copper tube				
COII	Operating pressure	MPa	≤1.6MPa				
Matar	Туре	-	PG6E	PG6E	PG10H	PG20G	
IVIOLOI	Capacitor	uF	1	1.5	1.5	1.5	
Connection	Water inlet & outlet	inch		Rc	3/4		
pipe size	Condensing water	mm	22	22	22	22	
Outline dimension (W×D×H)	Body	mm	895×68	895×680×230		80×230	
Package dimension (W×D×H)	Body	mm	1120×6	90×285	1275×6	90×285	
Net weight	Body	kg	23	23	27	27	
	Body	kg	30	30	34	34	
Cross weight	20'GP		112	112	84	84	
GIUSS WEIGIN	40'GP		238	238	189	189	
	40'HQ		272	272	216	216	

Model			FP-85LM/D-K	FP-102LM/D-K	FP-119LM/D-K	
Device evictore	Туре	V-Ph-Hz	:	220-240VAC, 50Hz		
Power system	Input	W	68	110	124	
Air flow volume	Llink	CFM	447	589	647	
	High	m³/h	760	1000	1100	
	Madium	CFM	353	435	506	
	Medium	m³/h	600	740	860	
	L ou r	CFM	235	300	359	
	LOW	m³/h	400	510	610	
Capacity	Cooling	W	4250	5000	5300	
Сарасну	Heating	W	4900	5900	6450	
	Cooling water flow volume	l/s	0.21	0.25	0.26	
	Heating water flow volume	l/s	0.26	0.28	0.3	
Water system	Cooling pressure drop	kPa	27	18	20	
	Heating pressure drop	kPa	38	25	27	
Sound pre	ssure level	dB(A)	45 48 50			
0.1	Туре	-	Aluminum fin-copper tube			
Coll	Operating pressure	MPa		≤1.6MPa		
Motor	Туре	-	PG30F	PG55A	PG55A	
IVIOLOI	Capacitor	uF	2.3	2.3	3.5	
Connection pipe	Water inlet & outlet	inch		Rc3/4		
size	Condensing water	mm	22	22	22	
Outline dimension (W×D×H)	Body	mm	1050×680×230	1350×6	80×230	
Package dimension (W×D×H)	Body	mm	1275×690×285 1625×69		90×285	
Net weight	Body	kg	28	33	33	
	Body	kg	35	41	41	
Cross weight	20'GP		84	70	70	
Gross weight	40'GP		189	147	147	
	40'HQ		216	168	168	

	Model		FP-136LM/D-K	FP-170LM/D-K	FP-204LM/D-K	
Dower eveter	Туре	V-Ph-Hz			-	
Power system	Input	W	128	155	195	
	High	CFM	647	1000	1118	
	підп	m³/h	1100	1700	1900	
Air flow volume	Medium	CFM	512	750	839	
	Medium	m³/h	870	1275	1425	
	Low	CFM	364	500	559	
	2000	m³/h	620	850	950	
Capacity	Cooling	W	5900	9200	10100	
	Heating	W	6800	10700	11500	
	Cooling water flow volume	l/s	0.28	0.44	0.48	
Water overtem	Heating water flow volume	l/s	0.32	0.51	0.55	
vvater system	Cooling pressure drop	kPa	25	45	55	
	Heating pressure drop	kPa	30	55	65	
Sound pre	ssure level	dB(A)	50	50 49 52		
0	Туре -		Aluminum fin-copper tube			
Coll	Operating pressure	MPa	≤1.6MPa			
Matan	Туре	-	PG55A	PG30L*2	PG40F*2	
IVIOLOF	Capacitor	uF	3.5	2.3*2	3*2	
Connection pipe	Water inlet & outlet	inch		Rc3/4		
size	Condensing water	mm	22	22	22	
Outline dimension (W×D×H)	Body	mm	1350×680×230	1773×680×230	1773×680×230	
Package dimension (W×D×H)	Body	mm	1625×690×285	2100×690×285	2100×690×285	
Net weight	Body	kg	33	47	47.5	
	Body	kg	41	57.5	58	
Gross weight	20'GP		70	56	56	
GIUSS Weight	40'GP		147	119	119	
	40'HQ		168	136	136	

Notes:

Testing conditions:

- (a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19°C, entering/leaving water temperature: 7°C/12°C
- (b) Rated heating conditions—dry bulb temperature: 20°C, wet bulb temperature: no more than 15°C, entering/leaving water temperature: 45°C/40°C
- (c) The sound level is tested under the semi-anechoic chamber and the actual value will change under different conditions.

Cassette type (AC)

Model FP-85XD/B-T FP-102XD/B-T FP-125XD/B-T FP			FP-140XD/B-T					
Dowor ovetem	Туре	V-Ph-Hz		208-230V	'AC, 60Hz			
Fower system	Input	W	70	130	130	140		
	High	CFM	459	600	665	794		
	riigii	m³/h	780	1020	1130	1350		
Air flow volume	Modium	CFM	371	599	529	647		
All now volume	Medium	m³/h	630	950	900	1100		
	Low	CFM	324	529	441	588		
	LOW	m³/h	550	900	750	1000		
Conscitu	Cooling	W	4600	5400	6300	8000		
Сарасну	Heating	W	7800	9000	10000	12000		
	Cooling water flow volume	l/s	0.22	0.26	0.3	0.38		
Water system	Heating water flow volume	l/s	0.22	0.26	0.3	0.38		
Water System	Cooling pressure drop	kPa	27	48	27	33		
	Heating pressure drop	kPa	24	47	28	29		
Sound pressure level dB(A) 39 49		43	48					
Туре		-		Aluminum fin-copper tube				
Coil	Operating pressure	MPa	MPa ≤1.6MPa		MPa			
Matar	Туре	-	FN35D-2	FN35D-2	FN35B-1	FN35C		
IVIOLOI	Capacitor	uF	2	3.5	2	4		
Connection	Water inlet & outlet	inch		G	3/4			
pipe size	Condensing water	mm		2	5			
Outline	Body	mm	840×84	40×190	840×84	40×240		
dimension (W×D×H)	Panel	mm	950×9	50×85	950×9	50×85		
Package	Body	mm	963×96	63×272	963×96	63×325		
dimension (W×D×H)	Panel	mm	1033×10	038×133	1033×10	038×133		
Net weight	Body	kg	25	25	27	27		
	Panel	kg	7	7	7	7		
	Body	kg	33	33	34	35		
	Panel	kg	11	11	11	11		
Gross weight	20'GP (with	panel)	56	56	50	50		
	40'GP (with	panel)	131	131	117	117		
	40'HQ (with	panel)	147	147	133	133		
Wired r	emote controlle	r	XE70-17/E(M)					
Wireless remote controller			YB1FA(MOTO)					

Model			FP-160XD/B-T	FP-180XD/B-T	FP-200XD/B-T	
Deverse	Туре	V-Ph-Hz		208-230VAC, 60Hz		
Power system	Input	W	140	160	230	
		CFM	912	1059	1176	
	High	m³/h	1550	1800	2000	
		CFM	765	824	912	
Air flow volume	Iviedium	m³/h	1300	1400	1550	
	Law	CFM	676	765	735	
	LOW	m³/h	1150	1300	1250	
Consoity	Cooling	W	9000	10000	13000	
Capacity	Heating	W	14000	16000	19000	
	Cooling water flow volume	l/s	0.43	0.48	0.62	
	Heating water flow volume	l/s	0.43	0.48	0.62	
Water system	Cooling pressure drop	kPa	34	42	35	
	Heating pressure drop	kPa	34	43	35	
Sound pres	ssure level	dB(A)	51	50 55		
	Туре	-	Aluminum fin-copper tube			
Coil	Operating pressure	MPa	≤1.6MPa			
Motor	Туре	-	FN35C FN50K-2		FN50K-2	
IVIOLOI	Capacitor	uF	6	3.5	5	
Connection pipe	Water inlet & outlet	inch		G3/4		
size	Condensing water	mm		25		
Outline dimension	Body	mm	840×840×240	840×84	10×320	
(W×D×H)	Panel	mm	950×950×85	950×9	50×85	
Package dimension	Body	mm	963×963×325	963×96	63×409	
(W×D×H)	Panel	mm	1033×1038×133	1033×10)38×133	
Net weight	Body	kg	27	32	33	
	Panel	kg	7	7	7	
	Body	kg	35	41	42	
	Panel	kg	11	11	11	
Gross weight	20'GP (with p	oanel)	50	42	42	
	40'GP (with p	oanel)	117	98	98	
	40'HQ (with p	oanel)	133	112	112	
Wired	remote controller		XE70-17/E(M)			
Wireles	s remote controller	YB1FA(MOTO)				

Model		FP-85XD/B-T	FP-102XD/B-T	FP-125XD/B-T	FP-140XD/B-T	
Dowor ovetem	Туре	V-Ph-Hz		220-240	VAC 50Hz	
Power system	Input	W	75	110	82	143
	Llink	CFM	471	600	694	824
	High	m³/h	800	1020	1180	1400
Air flow volume	Madium	CFM	382	599	588	735
	Medium	m³/h	650	950	1000	1250
	Law	CFM	324	529	529	676
	LOW	m³/h	550	900	900	1150
Consoity	Cooling	W	4500	5000	6000	8000
Capacity	Heating	W	5600	6500	7800	9000
	Cooling water flow volume	l/s	0.21	0.24	0.29	0.38
Water system	Heating water flow volume	l/s	0.13	0.17	0.18	0.21
Water system	Cooling pressure drop	kPa	24	36	24	30
	Heating pressure drop	kPa	8	13	9	10
Sound press	sure level	dB(A)	A) 39 49 43		50	
	Туре	-	Aluminum fin-copper tube			
Coil	Operating pressure	MPa	≤1.6MPa			
Motor	Туре	-	FN35D-2	FN35D-2	FN35B-1	FN35C
IVIOLOI	Capacitor	uF	2	3.5	2	4
Connection pipe	Water inlet & outlet	inch		G	3/4	
size	Condensing water	mm		2	25	
Outline dimension	Body	mm	840×8	40×190	840×84	40×240
(W×D×H)	Panel	mm	950×9	950×85	950×9	50×85
Package	Body	mm	963×9	63×272	963×96	63×325
(W×D×H)	Panel	mm	1033×1	038×133	1033×10	038×133
Net weight	Body	kg	25	25	27	27
	Panel	kg	7	7	7	7
	Body	kg	33	33	34	35
	Panel	kg	11	11	11	11
Gross weight	20'GP (with	panel)	56	56	50	50
	40'GP (with	panel)	131	131	117	117
	40'HQ (with	panel)	147	147	133	133
Wired re	mote controller		XE70-17/E(M)			
Wireless remote controller		YB1FA(MOTO)				

Model			FP-160XD/B-T	FP-180XD/B-T	FP-200XD/B-T
Dowor ovetem	Туре	V-Ph-Hz	220-240V~50Hz		
Power system	Input	W	152	160	210
	High	CFM	912	1059	1176
	nign	m³/h	1550	1800	2000
Air flow volume	Modium	CFM	824	853	1000
	Medium	m³/h	1400	1450	1700
	Low	CFM	765	794	853
	LOW	m³/h	1300	1350	1450
Capacity	Cooling	W	8700	9500	13000
Сарасну	Heating	W	10000	11000	14600
	Cooling water flow volume	l/s	0.42	0.45	0.62
Motor evotom	Heating water flow volume	l/s	0.23	0.27	0.25
water system	Cooling pressure drop	kPa	30	34	34
	Heating pressure drop	kPa	11	12	30
Sound pres	ssure level	dB(A)	51	50 55	
	Туре	-	Alum	inum fin-copper	tube
Coil	Operating pressure	MPa	≤1.6MPa		
Matar	Туре	-	FN35C	FN50K-2	FN50K-2
IVIOLOI	Capacitor	uF	4.5	3.5	5
Connection	Water inlet & outlet	inch	G3/4		
pipe size	Condensing water	mm		25	
Outline	Body	mm	840×840×240	840×84	40×320
(W×D×H)	Panel	mm	950×950×85	950×9	50×85
Package dimension	Body	mm	963×963×325	963×96	63×409
(W×D×H)	Panel	mm	1033×1038×133	1033×10)38×133
Net weight	Body	kg	27	32	33
	Panel	kg	7	7	7
	Body	kg	35	41	42
	Panel	kg	11	11	11
Gross weight	20'GP (with	panel)	50	42	42
	40'GP (with	panel)	117	98	98
	40'HQ (with	panel)	133	112	112
Wired r	emote controlle	r		XE70-17/E(M)	
Wireless remote controller YB1FA(MOTO)					

	Model	FP-68XDT/B-K	FP-85XDT/B-K	
Devenenter	Type V-Ph-Hz			
Power system	Input	W	82	82
	High	CFM	400	500
Air flow volume	підп	m³/h	680	850
	Medium	CFM	364	450
	Weddin	m³/h	618	764
	Low	CFM	336	410
	2011	m³/h	571	697
Capacity	Cooling	W	3500	4100
	Heating	W	5800	6400
	Cooling water flow volume	l/s	0.21	0.24
Water evotor	Heating water flow volume	l/s	0.17	0.19
	Cooling pressure drop	kPa	34.14	56.71
	Heating pressure drop	kPa	76.44	86.08
Sound pressure level		dB(A)	39	40
Ceil	Туре	-		
Coll	Operating pressure	MPa		
Madan	Туре	-	FN35D-2	FN35D-2
IVIOLOF	Capacitor	uF	2	3
Connection pipe	Water inlet & outlet	inch		
size	Condensing water	mm		
Outline dimension	Body	mm	840×840×190	840×840×190
(W×D×H)	Panel	mm	950×950×85	950×950×85
Package dimension	Body	mm	960×960×257	960×960×257
(W×D×H)	Panel	mm	1033×1038×133	1033×1038×133
Net weight	Body	kg	25	25
	Panel	kg	7	7
	Body	kg	33	33
	Panel	kg	11	11
Gross weight	20'GP (with p	anel)	56	56
	40'GP (with p	anel)	131	131
	40'HQ (with p	anel)	147	147
Wired	remote controller			
Wireles	s remote controller			

Model			FP-102XDT/B-K	FP-125XDT/B-K	FP-140XDT/B-K	
Deverse eventeere	Туре	V-Ph-Hz		220-240V~ 50Hz		
Power system	Input	W	105	135	140	
	Llink	CFM	600	736	824	
	High	m³/h	1020	1250	1400	
A in flaur values a	Maaliuma	CFM	530	652	736	
Air now volume	wealum	m³/h	900	1108	1250	
	Law	CFM	471	597	647	
	LOW	m³/h	800	1014	1100	
Constitu	Cooling	W	5400	6000	6400	
Capacity	Heating	W	8000	9000	9500	
	Cooling water flow volume	l/s	0.27	0.29	0.3	
Mater eveter	Heating water flow volume	l/s	0.2	0.27	0.23	
Water system	Cooling pressure drop	kPa	38	43.07	48	
	Heating pressure drop	kPa	70	91.94	35	
Sound pressure level		dB(A)	39	43	85	
	Туре -		Alur	ninum fin-copper t	ube	
Coil	Operating pressure	MPa	≤1.6MPa			
NA-4-P	Туре	-	FN35B-1	FN35B-1	FN35C	
IVIOTOR	Capacitor	uF	2	4	4	
Connection pipe	Water inlet & outlet	inch	G3/4			
size	Condensing water	mm	25			
Outline dimension	Body	mm	840×840×240	840×840×240	840×840×240	
(W×D×H)	Panel	mm	950×950×85	950×950×85	950×950×85	
Package dimension	Body	mm	960×960×310	960×960×310	960×960×310	
(W×D×H)	Panel	mm	1033×1038×133	1033×1038×133	1033×1038×133	
Not woight	Body	kg	28	27	28	
Net weight	Panel	kg	7	7	7	
	Body	kg	35	34	36	
	Panel	kg	11	11	11	
Gross weight	20'GP (with p	anel)	50	50	50	
	40'GP (with p	anel)	121	121	121	
	40'HQ (with p	anel)	134	134	134	
Wired	remote controller		XE70-17/E(M)			
Wireles	s remote controller		YB1FA(MOTO)			

Model			FP-180XDT/B-K	FP-200XDT/B-K		
Deverse eventeere	Туре	V-Ph-Hz	220-240	VAC 50Hz		
Power system	Input	W	191	200		
	High	CFM	1059	1177		
Air flow volume	підп	m3/h	1800	2000		
	Madium	CFM	897	1000		
All llow volume	wealum	m3/h	1525	1700		
	Low	CFM	836	883		
	LOW	m3/h	1421	1500		
Consoitu	Cooling	W	8000	9000		
Capacity	Heating	W	11500	12500		
	Cooling water flow volume	l/s	0.44	0.45		
Water overtem	Heating water flow volume	l/s	0.36	0.38		
water system	Cooling pressure drop	kPa	39.65	50		
	Heating pressure drop	kPa	102.21	108		
Sound pressure level		dB(A)	50	51		
Coil	Туре -		Aluminum fir	Aluminum fin-copper tube		
0	Operating pressure	MPa	≤1.6MPa			
Motor	Туре	-	FN50K-1	FN50K-1		
WIOTOI	Capacitor	uF	4.5	4.5		
Connection pipe	Water inlet & outlet	inch	G	3/4		
size	Condensing water	mm	2	25		
Outline dimension	Body	mm	840×840×320	840×840×320		
(W×D×H)	Panel	mm	950×950×85	950×950×85		
Package dimension	Body	mm	960×960×394	960×960×394		
(W×D×H)	Panel	mm	1033×1038×133	1033×1038×133		
Net weight	Body	kg	32	34		
	Panel	kg	7	7		
	Body	kg	41	42		
	Panel	kg	11	11		
Gross weight	20'GP (with pa	anel)	42	42		
	40'GP (with pa	anel)	98	98		
	40'HQ (with pa	anel)	112	112		
Wired	remote controller		XE70-	17/E(M)		
Wireles	s remote controller		YB1FA(MOTO)			

Model FP-68XDT/ FP B-K(E) I			FP-85XDT/ B-K(E)	FP-125XDT/ B-K(E)	FP-180XDT/ B-K(E)			
Power	Туре	V-Ph-Hz		220-240V/	AC 50Hz			
system	Input	W	82	90	135	191		
		CFM	400	500	736	1000		
	High	m³/h	680	850	1250	1700		
Air flow		CFM	364	450	652	897		
volume	Medium	m³/h	618	764	1108	1525		
		CFM	336	410	597	836		
	LOW	m³/h	571	697	1014	1421		
Conseitu	Cooling	W	3500	4500	6000	8000		
Сарасну	Heating	W	5800	6800	9200	12000		
	Cooling water flow volume	l/s	0.21	0.24	0.29	0.44		
Water	Heating water flow volume	l/s	0.17	0.19	0.27	0.36		
system	Cooling pressure drop	kPa	44	53	41	48		
	Heating pressure drop	kPa	76	83	84	97		
Sound pr	essure level	dB(A)	39	40	43	50		
Type -		-		Aluminum fin-	copper tube			
Coil	Operating pressure	MPa		≤1.6MPa				
Motor	Туре	-	FN35D-2	FN35D-2	FN35B-1	FN50K-2		
INIOLOI	Capacitor	uF	2	3	4	4.5		
Connection	Water inlet & outlet	inch		G3	/4			
pipe size	Condensing water	mm		25	5			
Outline dimension	Body	mm	840×840×190	840×840×190	840×840×240	840×840×320		
(W×D×H)	Panel	mm	950×950×85	950×950×85	950×950×85	950×950×85		
Package	Body	mm	960×960×257	960×960×257	960×960×310	960×960×394		
(W×D×H)	Panel	mm	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133		
Net weight	Body	kg	25	25	27	32		
	Panel	kg	7	7	7	7		
	Body	kg	33	33	34	41		
Gross	Panel	kg	11	11	11	11		
weight	20'GP (with	panel)	56	56	50	42		
	40'GP (with	panel)	131	131	121	98		
	40'HQ (with	panel)	147	147	134	112		
Wired	d remote control	ller		XE70-1	7/E(M)			
Wireless remote controller YB1FA(MOTO)								

	Model		FP-85XD/ B-T(E)	FP-102XD/ B-T(E)	FP-125XD/ B-T(E)	FP-140XD/ B-T(E)	
Power	Туре	V-Ph-Hz	220-240VAC 50Hz				
system	Input	W	81	110	100	143	
		CFM	471	470	641	823	
	High	m³/h	800	940	1090	1400	
Air flow		CFM	385	453	506	682	
volume	Medium	m³/h	665	770	860	1160	
	1	CFM	347	394	447	588	
	LOW	m³/h	590	670	760	1000	
Consoity	Cooling	W	4500	5000	6000	7400	
Сарасну	Heating	W	5400	6100	6900	8400	
	Cooling water flow volume	l/s	0.22	0.24	0.29	0.35	
Water	Heating water flow volume	l/s	0.27	0.29	0.33	0.4	
system	Cooling pressure drop	kPa	27	34	21	30	
	Heating pressure drop	kPa	37	46	32	38	
Sound pr	essure level	dB(A)	(A) 39 49 43			50	
Туре				Aluminum fin	-copper tube		
Coil	Operating pressure	MPa		≤1.6	MPa		
Motor	Туре	-	FN35D-2	FN35D-2	FN35B-1	FN35C	
	Capacitor	uF	2	3.5	2	4	
Connection	Water inlet & outlet	inch		G	3/4		
pipe size	Condensing water	mm		2	5		
Outline	Body	mm	840*840*190	840×840×190	840×840×240	840×840×240	
(W×D×H)	Panel	mm	950×950×85	950×950×85	950×950×85	950×950×85	
Package	Body	mm	963×963×272	963×963×272	963×963×325	963×963×325	
(W×D×H)	Panel	mm	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	
Net weight	Body	kg	25	25	27	27	
Not Woight	Panel	kg	7	7	7	7	
	Body	kg	33	33	34	35	
Gross	Panel	kg	11	11	11	11	
weight	20'GP (with	panel)	56	56	50	50	
	40'GP (with	panel)	131	131	117	117	
	40'HQ (with	panel)	147	147	133	133	
Wired	remote control	er	XE70-17/E(M)				
Wireless remote controller			YB1FA(MOTO)				

Model			FP-160XD/B-T(E)	FP-180XD/B-T(E)	
Dowor oveter	Туре	V-Ph-Hz	z 220-240VAC, 50Hz		
Power system	Input	W	152	160	
	Llink	CFM	882	964	
	High	m³/h	1500	1640	
Air flow volume	Madium	CFM	706	800	
All now volume	Medium	m³/h	1200	1360	
	Low	CFM	588	706	
	LOW	m³/h	1000	1200	
Capacity	Cooling	W	8400	9500	
Capacity	Heating	W	9000	10500	
	Cooling water flow volume	l/s	0.4	0.45	
Water system	Heating water flow volume	l/s	0.43	0.49	
Water system	Cooling pressure drop	kPa	30	33	
	Heating pressure drop	kPa	36	41	
Sound pre	Sound pressure level		51	50	
	Туре	-	Aluminum fin	-copper tube	
Coil	Operating pressure	MPa	≤1.6MPa		
Motor	Туре	-	FN35C	FN50K-2	
MOLOI	Capacitor	uF	4.5	3.5	
Connection pipe	Water inlet & outlet	inch	G3/4		
size	Condensing water	mm	2	5	
Outline	Body	mm	840×840×240	840×840×320	
(W×D×H)	Panel	mm	950×950×85	950×950×85	
Package	Body	mm	963×963×325	963×963×409	
(W×D×H)	Panel	mm	1033×1038×133	1033×1038×133	
Net weight	Body	kg	27	32	
	Panel	kg	7	7	
	Body	kg	35	41	
	Panel	kg	11	11	
Gross weight	20'GP (with p	anel)	50	42	
	40'GP (with p	anel)	117	98	
	40'HQ (with p	anel)	133	112	
Wired ı	remote controller		XE70-1	7/E(M)	
Wireless remote controller			YB1FA(MOTO)		

Model		FP-51XD/A-K	FP-68XD/A-K	FP-238XD/C-K		
	Туре	V-Ph-Hz		220-240VAC, 50Hz		
Power system	Input	W	73	78	170	
		CFM	300	388	1295	
	High	m³/h	510	660	2200	
Air flow	N.A. 11	CFM	235	330	1118	
volume	Mealum	m³/h	400	560	1900	
	1	CFM	176	270	765	
	LOW	m³/h	300	460	1300	
Consister	Cooling	W	2750	3400	12000	
Capacity	Heating	W	3400	3800	13000	
	Cooling water flow volume	l/s	0.13	0.18	0.57	
Water system	Heating water flow volume	l/s	0.16	0.2	0.62	
	Cooling pressure drop	kPa	30	38	50	
	Heating pressure drop	kPa	30	38	60	
Sound pressure level dB(dB(A)	46	46	53	
Coil	Туре	-	AI	uminum fin-copper tu	be	
COI	Operating pressure	MPa	≤1.6MPa			
Motor	Туре	-	FN30L	FN30L	FN100A-ZL	
WOO	Capacitor	uF	2	2	-	
Connection	Water inlet & outlet	inch		G3/4		
pipe size	Condensing water	mm		25		
Outline dimension	Body	mm	592x592x240	592x592x240	910x910x239	
(W×D×H)	Panel	mm	670x670x60	670x670x60	1040x1040x85	
Package	Body	mm	775x735x285	775x735x285	1020x990x360	
(W×D×H)	Panel	mm	760x760x90	760x760x90	1134x1134x125	
Net weight	Body	kg	20	20	39.5	
Net Weight	Panel	kg	3.5	3.5	8	
	Body	kg	24	24	49	
	Panel	kg	5	5	12	
Gross weight	20'GP (with pan	el)	120	120	100	
	40'GP (with pan	el)	258	258	80	
	40'HQ (with pan	el)	291	291	40	
Wir	ed remote controller		XE70-17/E(M)			
Wireless remote controller		YB1FA(MOTO)				

Notes:

Testing conditions for models connecting to power at 50Hz:

- (a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19°C, entering/leaving water temperature: 7°C/12°C.
- (b) Rated heating conditions—for the two-row coil type, dry bulb temperature: 20°C, wet bulb temperature: no more than 15°C, entering/leaving water temperature: 45°C/40°C; for the four-row coil

type, dry bulb temperature: 20°C, wet bulb temperature: no more than 15°C, entering/leaving water temperature: 65°C/55°C

- (c) The sound level is tested under the semi-anechoic chamber and the actual value will change under different conditions.
- Testing conditions for models connecting to power at 60Hz:
- (a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19.5°C, entering/leaving water temperature: 7°C/12°C.
- (b) Rated heating conditions—dry bulb temperature: 21°C, entering water temperature: 60°C; water supply amount is equivalent to the amount in the rated cooling conditions.
- (c) The sound level is tested under the semi-anechoic chamber and the actual value will change under different conditions.

Madal		FPD-51XD/	FPD-68XD/	FPD-85XD/	FPD-102XD/	FPD-119XD/		
	MODEI		A-S	A-S	A-S	A-S	A-S	
	Code		EM520N1580	EM520N1500	EM520N1570	EM520N1540	EM520N1550	
Power Type		V-Ph- Hz		220-240V~50/60Hz				
system	Input	W	20	27	25	35	49	
	Lligh	CFM	324	400	500	600	700	
	піgn	m3/h	550	680	850	1020	1190	
Air flow	Modium	CFM	265	318	371	471	542	
volume	weaturn	m3/h	450	540	630	800	920	
	Low	CFM	224	247	306	359	412	
	LOW	m3/h	380	420	520	610	700	
	Cooling(EU)	W	3.1	3.9	4.75	5.15	6.7	
Consoitu	Heating(EU)	W	3.55	4	5.65	6.1	7.6	
Capacity	Cooling(Non EU)	W	3.4	4.25	5.1	5.7	7.3	
	Heating(Non EU)	W	5.6	6.3	8.4	9	11.5	
	Cooling water flow volume(EU)	l/s	0.15	0.19	0.23	0.25	0.32	
	Heating water flow volume(EU)	l/s	0.17	0.19	0.27	0.29	0.36	
	Cooling pressure drop(EU)	kPa	26	30	22	28	26	
Water	Heating pressure drop(EU)	kPa	37	43	33	37	32	
system	Cooling water flow volume(Non EU)	l/s	0.16	0.2	0.24	0.27	0.35	
	Heating water flow volume(Non EU)	l/s	0.16	0.2	0.24	0.27	0.35	
	Cooling pressure drop(Non EU)	kPa	33	39	26	33	30	
	Heating pressure drop(Non EU)	kPa	33	39	26	33	30	
Sound	pressure level	dB(A)	IB(A) 35 40 36 39		39	43		
	Туре	-		Alumi	num fin-coppe	r tube		
Coil	Operating	MPa			<1 6MPa			
	pressure							
Motor	Туре	-	B-FN3	OC-ZL		B-FN35C-ZL		

◆ A series cassette type (DC)

Model		FPD-51XD/ A-S	FPD-68XD/ A-S	FPD-85XD/ A-S	FPD-102XD/ A-S	FPD-119XD/ A-S		
Connection	Water inlet & outlet	inch		Rc3/4				
pipe size	Condensing water drain	mm		nickness)				
Outline dimension	Body	mm	570×57	570×570×260 840×840×200				
(W×D×H)	Panel	mm	620×6	620×620×65 950×950×65				
Package dimension	Body	mm	695×650×280		930×930×240			
(W×D×H)	Panel	mm	690×69	90×100	1030×1017×95			
Not woight	Body	kg	16.5	16.5	20	20	20.5	
Net weight	Panel	kg	3	3	6	6	6	
Gross	Body	kg	20.5	20.5	24	24	25.5	
weight	Panel	kg	4.5	4.5	9.5	9.5	9.5	
Looding	20'GP (with par	nel)	168	168	100	100	100	
Quantity	40'GP (with par	nel)	378	378	220	220	220	
Quantity	40'HQ (with par	nel)	432	432	242	242	242	
Wireless remote controller			YAP1F					
Wired	d remote controller		XE7B-17/E(M)					

	Model		FPD-136XD/A-S	FPD-170XD/A-S	FPD-204XD/A-S	FPD-238XD/A-S			
	Code		EM520N1530	EM520N1510	EM520N1520	EM520N1560			
Power	Туре	V-Ph- Hz		220-240V~50/60Hz					
system	Input	W	69	76	105	167			
	Lligh	CFM	800	1000	1200	1400			
	nign	m3/h	1360	1700	2040	2380			
Air flow	Medium	CFM	648	748	854	1148			
volume		m3/h	1100	1270	1450	1950			
	Low	CFM	477	571	636	942			
		m3/h	810	970	1080	1600			
	Cooling(EU)	W	7.6	9	11.1	11.5			
Conocity	Heating(EU)	W	8.7	10.4	12.2	12.6			
Capacity	Cooling(Non EU)	W	8.2	9.6	12	12.5			
	Heating(Non EU)	W	13	15.4	18.7	19.8			

	Model		FPD-136XD/A-S	FPD-170XD/A-S	FPD-204XD/A-S	FPD-238XD/A-S		
	Cooling water	l/s	0.36	0.43	0.53	0.55		
	flow volume(EU)		0.00	0.40	0.00	0.00		
Heating water		0.41	0.5	0.58	0.6			
	Cooling pressure							
	drop(FU)	kPa	32	32	33	43		
	Heating pressure	L/D =	40	40	20			
	drop(EU)	кра	42	42	38	55		
Water	Cooling water							
system	flow volume(Non	l/s	0.39	0.46	0.57	0.6		
	EU)							
	flow volume(Non	l/c	0.30	0.46	0.57	0.6		
	EU)	1/5	0.59	0.40	0.57	0.0		
	Cooling pressure	kDo	22	26	20	52		
	drop(Non EU)	кга	32			55		
	Heating pressure	kPa	32	36	39	53		
	drop(Non EU)		10	45	10	47		
Sound		dB(A)) 42 45		48	47		
Coil	Iype On a reating r	-		Aluminum fin	-copper tube			
COII	pressure	MPa	≤1.6MPa					
Motor	Туре	-	B-TN60A-ZL B-TN90A-ZL FN100A					
	Water inlet &	inch		Rc'	3//			
Connection	outlet	mon	1100/4					
pipe size	Condensing water drain	mm	25×2.5mm (OD×Wall thickness)					
Outline	Body	mm	840×840×240	840×84	10×290	910×910×293		
(W×D×H)	Panel	mm	950×950×65	950×9	50×65	1040×1040×85		
Package								
dimension	Body	mm	930×930×277	930×93	30×330	1020×990×360		
(W×D×H)	Panel	mm	1030×1017×95	1030×1	017×95	1134×1134×125		
Not woight	Body	kg	21	23.5	24	38		
Net weight	Panel	kg	6	6	6	7.5		
Gross	Body	kg	25.5	28	28.5	46		
weight	Panel	kg	9.5	9.5	9.5	11.5		
	20'GP (with pa	nel)	96	72	72	60		
Loading	40'GP (with pa	nel)	192	144	144	132		
Quantity	40'HQ (with pa	inel)	216	168	168	154		
Wirele	Wireless remote controller YAP1F				·			
Wire	d remote controlle	r		XE7B-1	7/E(M)			

Notes:

- 1. Testing conditions for models used in EU countries and regions
- (a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19°C, entering/leaving water temperature: 7°C/12°C.
- (b) Rated heating conditions—dry/wet bulb temperature: 20°C/≤15°C, entering/leaving water temperature: 45°C/40°C.

- 2. Testing conditions for models used in non-EU countries and regions
- (a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19.5°C, entering/leaving water temperature: 7°C/12°C.
- (b) Rated heating conditions—dry bulb temperature: 21°C, entering water temperature: 60°C, the water flow is the same as that of the cooling condition.

3. Noise testing condition: the test condition is a semi-anechoic room, and the nominal value is the high-speed noise of the unit. The actual use changes due to changes of the environment.

◆ A series wall mounted type (DC)

Model			FPD-34BB4/A-K FPD-34BB6/A-K	FPD-51BB4/A-K FPD-51BB6/A-K
Dower eveter	Туре	V-Ph-Hz	220-240	V~ 50Hz
Fower system	Input	W	12	18
	Llink	CFM	200	300
	High	m³/h	340	510
A : fl l		CFM	150	225
Air now volume	wedium	m³/h	255	382
	Law	CFM	100	150
	LOW	m³/h	170	255
Capacity	Cooling	W	2.2	2.7
Capacity	Heating	W	2.4	2.9
	Cooling water flow volume	l/s	0.1	0.14
Water evotem	Heating water flow volume	l/s	0.11	0.14
Water system	Cooling pressure drop	kPa	20	30
	Heating pressure drop	kPa	24	35
Sound pr	essure level	dB(A)	31	37
Coil	Туре	-	Aluminum fin	-copper tube
Coll	Operating pressure	MPa	≤1.6	MPa
Motor	Туре	-	FN20V-ZL	FN20V-ZL
	Capacitor	uF	-	-
	Water inlet & outlet	inch	1/	2"
size	Condensing water drain	mm	15	.6
Outline dimension (W×D×H)	Body	mm	845×209×289	845×209×289
Package dimension (W×D×H)	Body	mm	973×278×364	973×278×364
Net weight	Body	kg	10.5	10.5
Gross weight	Body	kg	12.5	12.5

Model		FPD-34BB4/A-K FPD-34BB6/A-K	FPD-51BB4/A-K FPD-51BB6/A-K	
	20'GP (with panel)	291	291	
Loading quantity	40'GP (with panel)	604	604	
	40'HQ (with panel)	682	682	
Wired remote controller		XE7A-17/E(M)		
Wireless remote controller		YAP1F		

Model			FPD-68BB4/A-K FPD-68BB6/A-K	FPD-85BB4/A-K FPD-85BB6/A-K	
Dower eveter	Туре	V-Ph-Hz	220-240	V~ 50Hz	
Power system	Input	W	29	43	
	Lligh	CFM	400	500	
	High	m³/h	680	850	
Airflow	Madium	CFM	300	375	
Air now volume	wedium	m³/h	510	637	
	1	CFM	200	250	
	LOW	m³/h	340	425	
	Cooling	W	3.6	4.3	
Capacity	Heating	W	3.9	4.7	
	Cooling water flow volume	l/s	0.18	0.21	
Water system	Heating water flow volume	l/s	0.19	0.22	
vvater system	Cooling pressure drop	kPa	43	52	
	Heating pressure drop	kPa	55	65	
Sound pr	essure level	dB(A)	43	48	
Coil	Туре	-	Aluminum fin-copper tube		
	Operating pressure	MPa	≤1.6	MPa	
Motor	Туре	-	FN20V-ZL	FN60B-ZL	
10101	Capacitor	uF	-	-	
Connection nine	Water inlet & outlet	inch	1/	2"	
size	Condensing water drain	mm	15	5.6	
Outline dimension (W×D×H)	Body	mm	845×209×289	970×224×300	
Package dimension (W×D×H)	Body	mm	973×278×364	1093×380×305	
Net weight	Body	kg	10.5	12.5	
Gross weight	Body	kg	12.5	15.5	
	20'GP (with pa	anel)	291	221	
Loading quantity	40'GP (with pa	anel)	604	461	
	40'HQ (with pa	anel)	682	525	

Model	FPD-68BB4/A-K FPD-68BB6/A-K	FPD-85BB4/A-K FPD-85BB6/A-K		
Wired remote controller	XE7A-17/E(M)			
Wireless remote controller	YAP1F			

◆ A series wall mounted type (AC)

Model			FP-34BA2/D-K(E) FP-34BA3/D-K(E) FP-34BA4/D-K(E)	FP-51BA2/D-K(E) FP-51BA3/D-K(E) FP-51BA4/D-K(E)	
D (Туре	V-Ph-Hz	220-240	/~ 50Hz	
Power system	Input	W	50	50	
	L Li se la	CFM	212	324	
	Hign	m³/h	360	550	
	NA 11	CFM	189	242	
Air flow volume	Medium	m³/h	322	413	
		CFM	166	215	
	Low	m³/h	282	367	
	Cooling	W	2000	2500	
Capacity	Heating	W	2300	2800	
	Cooling water flow volume	l/s	0.1	0.12	
Water system	Heating water flow volume	l/s	0.11	0.13	
	Cooling pressure drop	kPa	18	25	
	Heating pressure drop	kPa	20	25	
Sound pi	ressure level	dB(A)	35	40	
Coil	Туре	-	Aluminum fin-copper tube		
Coll	Operating pressure	MPa	≤1.6I	MPa	
Motor	Туре	-	FN20J-PG	FN20J-PG	
	Capacitor	uF	-	-	
Connection nine	Water inlet & outlet	inch	1/2	2"	
size	Condensing water drain	mm	15	.6	
Outline dimension (W×D×H)	Body	mm	845×180×275	845×180×275	
Package dimension (W×D×H)	Body	mm	915×255×355	915×255×355	
Net weight	Body	kg	10	10	
Gross weight	Body	kg	12.5	12.5	
	20'GP (with pa	nel)	365	365	
Loading quantity	40'GP (with pa	nel)	765	765	
	40'HQ (with pa	inel)	850 850		
Wired	d remote controller		XE70-17/E(M)		
Wireless remote controller		YB1FA(MOTO)			

Model			FP-68BA2/D-K(E) FP-68BA3/D-K(E) FP-68BA4/D-K(E)	FP-85BA2/D-K(E) FP-85BA3/D-K(E) FP-85BA4/D-K(E)	
	Туре	V-Ph-Hz	220-240	/~ 50Hz	
Power system	Input	W	60	66	
		CFM	400	500	
	High	m³/h	680	850	
Ainflowerships		CFM	347	416	
Air flow volume	Medium	m³/h	591	708	
	1	CFM	312	362	
	LOW	m³/h	532	616	
O - m - site	Cooling	W	3600	4000	
Capacity	Heating	W	4100	4500	
	Cooling water flow volume	l/s	0.17	0.19	
Water evotem	Heating water flow volume	l/s	0.2	0.21	
Water system	Cooling pressure drop	kPa	52	60	
	Heating pressure drop	kPa	52	60	
Sound pr	essure level	dB(A)	43	48	
Coil	Туре	-	Aluminum fin-copper tube		
	Operating pressure	MPa	≤1.6	ИРа	
Motor	Туре	-	FN20V-PG	FN20V-PG	
	Capacitor	uF	-	-	
	Water inlet & outlet	inch	1/2	2"	
size	Condensing water drain	mm	15	.6	
Outline dimension (W×D×H)	Body	mm	940×200×298	940×200×298	
Package dimension (W×D×H)	Body	mm	1010×285×380	1010×285×380	
Net weight	Body	kg	12	12	
Gross weight	Body	kg	16	16	
	20'GP (with pa	nel)	290	290	
Loading quantity	40'GP (with pa	nel)	595	595	
	40'HQ (with pa	nel)	671 671		
Wired	d remote controller		XE70-17/E(M)		
Wireless remote controller		YB1FA(MOTO)			

	Model		FP-34BA2/D-K FP-34BA3/D-K FP-34BA4/D-K	FP-51BA2/D-K FP-51BA3/D-K FP-51BA4/D-K	FP-68BA2/D-K FP-68BA3/D-K FP-68BA4/D-K	
Damagenetaria	Туре	V-Ph-Hz		220-240V~ 50Hz		
Power system	Input	W	50	50	60	
	L Back	CFM	212	324	400	
	High	m³/h	360	550	680	
Air flow volume	Madium	CFM	189	242	347	
Air now volume	wealum	m³/h	322	413	591	
	Law	CFM	166	215	312	
	LOW	m³/h	282	367	532	
Caracity	Cooling	W	2000	2500	3600	
Capacity	Heating	W	2700	3200	4600	
	Cooling water flow volume	l/s	0.1	0.12	0.17	
Mator evotom	Heating water flow volume	l/s	0.13	0.15	0.22	
Water system	Cooling pressure drop	kPa	18	25	52	
	Heating pressure drop	kPa	20	25	52	
Sound pr	essure level	dB(A)	35	40	43	
Cail	Туре	-	Alu	iminum fin-copper tu	lbe	
COI	Operating pressure	MPa		≤1.6MPa		
Motor	Туре	-	FN20J-PG	FN20J-PG	FN20V-PG	
INIOLOI	Capacitor	uF	-	-	-	
Connection nine	Water inlet & outlet	inch		1/2"		
size	Condensing water drain	mm		15.6		
Outline dimension (W×D×H)	Body	mm	845×180×275	845×180×275	940×200×298	
Package dimension (W×D×H)	Body	mm	915×255×355	915×255×355	1010×285×380	
Net weight	Body	kg	10	10	12	
Gross weight	Body	kg	12.5	12.5	16	
	20'GP (with pa	anel)	365	365	290	
Loading quantity	40'GP (with pa	anel)	765	765	595	
	40'HQ (with pa	anel)	850	850	671	
Wire	d remote controller			XE70-17/E(M)		
Wirele	ss remote controller		YB1FA(MOTO)			

	Model	FP-85BA2/D-K FP-85BA3/D-K FP-85BA4/D-K		
	Туре	V-Ph-Hz	220-240V~ 50Hz	
Power system	Input	W	66	
	L li sela	CFM	500	
	High	m³/h	850	
Air flow volume	Medium	CFM	416	
		m³/h	708	
	Low	CFM	362	
		m³/h	616	
Capacity	Cooling	W	4200	
Capacity	Heating	W	5400	
Water system	Cooling water flow volume	l/s	0.2	
	Heating water flow volume	l/s	0.26	
	Cooling pressure drop	kPa	60	
	Heating pressure drop	kPa	60	
Sound pressure level		dB(A)	48	
Coil	Туре	-	Aluminum fin-copper tube	
	Operating pressure	MPa	≤1.6MPa	
Motor	Туре	-	FN20V-PG	
	Capacitor	uF	_	
Connection pipe size	Water inlet & outlet	inch	1/2"	
	Condensing water drain	mm	15.6	
Outline dimension (W×D×H)	Body	mm	940×200×298	
Package dimension Body (W×D×H)		mm	1010×285×380	
Net weight	Body	kg	12	
Gross weight	Body	kg	16	
	20'GP (with pa	anel)	290	
Loading quantity	40'GP (with pa	anel)	595	
	40'HQ (with pa	anel)	671	
Wired remote controller			XE70-17/E(M)	
Wirele	ess remote controller	YB1FA(MOTO)		

Model			FP-34BA2/B-D FP-34BA3/B-D	FP-51BA2/B-D FP-51BA3/B-D	FP-68BA2/B-D FP-68BA3/B-D
Devuer evetere	Туре	V-Ph-Hz	208-230V~ 60Hz		
Power system	Input	W	50	50	60
Air flow volume	High	CFM	212	324	400
		m³/h	360	550	680
	Medium	CFM	189	242	347
		m³/h	322	413	591
	L	CFM	166	215	312
	LOW	m³/h	282	367	532
	Cooling	W	2100	2700	3600
Capacity	Heating	W	3150	4050	5400
Water system	Cooling water flow volume	l/s	0.1	0.13	0.17
	Heating water flow volume	l/s	0.15	0.19	0.26
	Cooling pressure drop	kPa	13	24	44
	Heating pressure drop	kPa	15	25	45
Sound pressure level		dB(A)	35	40	43
	Туре	-	Aluminum fin-copper tube		
Coil	Operating pressure	MPa	≤1.6MPa		
Motor	Туре	-	FN20X-PG	FN20X-PG	FN20W-PG
	Capacitor	uF	-	-	-
Connection nine	Water inlet & outlet	inch	1/2"		
size	Condensing water drain	mm	15.6		
Outline dimension (W×D×H)	Body	mm	845×180×275	845×180×275	940×200×298
Package dimension (W×D×H)	Body	mm	915×255×355	915×255×355	1010×285×380
Net weight	Body	kg	10	10	12
Gross weight	Body	kg	12.5	12.5	15
	20'GP (with panel)		365	365	290
Loading quantity	40'GP (with panel)		765	765	595
	40'HQ (with panel)		850	850	671
Wired remote controller			XE70-17/E(M)		
Wireless remote controller			YB1FA(MOTO)		

Model			FP-85BA2/B-D FP-85BA3/B-D	FP-102BA2/B-D FP-102BA3/B-D	
Туре		V-Ph-Hz	208-230V~ 60Hz		
Power system	Input	W	60	70	
Air flow volume	High	CFM	500	588	
		m³/h	850	1000	
	Medium	CFM	416	493	
		m³/h	708	840	
	L	CFM	362	423	
	Low	m³/h	616	720	
	Cooling	W	4200	5400	
Capacity	Heating	W	6300	8500	
Water system	Cooling water flow volume	l/s	0.2	0.26	
	Heating water flow volume	l/s	0.3	0.4	
	Cooling pressure drop	kPa	45	63	
	Heating pressure drop	kPa	48	65	
Sound pressure level		dB(A)	48	49	
	Туре	-	Aluminum fin-copper tube		
Coil	Operating pressure	MPa	≤1.6MPa		
Motor	Туре	-	FN20W-PG	FN20W-PG	
	Capacitor	uF	-	-	
Connection nine	Water inlet & outlet	inch	1/2"		
size	Condensing water drain	mm	15.6		
Outline dimension (W×D×H)	Body	mm	940×200×298	940×200×298	
Package dimension (W×D×H)	Body	mm	1010×285×380	1010×285×380	
Net weight	Body	kg	12	12	
Gross weight	Body	kg	15	15	
	20'GP (with panel)		290	290	
Loading quantity	40'GP (with panel)		595	595	
	40'HQ (with panel)		671	671	
Wired remote controller			XE70-17/E(M)		
Wireless remote controller			YB1FA(MOTO)		
	Model		FP-34BA3/B-K	FP-51BA3/B-K	
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Dever	Туре	V-Ph-Hz	220-240	/~ 50Hz	
Power system	Input	W	30	30	
	1 Back	CFM	212	300	
	High	m³/h	360	510	
A. G. 1		CFM	189	243	
Air flow volume	Medium	m³/h	322	413	
		CFM	166	216	
	Low	m³/h	282	367	
0	Cooling	W	1850	2650	
Capacity	Heating	W	2450	3050	
	Cooling water flow volume	l/s	0.09	0.13	
Water system	Heating water flow volume	l/s	0.12	0.15	
Water system	Cooling pressure drop	kPa	13	25	
	Heating pressure drop	kPa	16	27	
Sound pressure level		dB(A)	30	40	
	Туре	-	Aluminum fin	-copper tube	
Coil	Operating pressure	MPa	≤1.6ľ	MPa	
Motor	Туре	-	FN6B	FN9A	
	Capacitor	uF	1	1	
Connection pipe	Water inlet & outlet	inch	1/2	2"	
size	Condensing water drain	mm	15	.6	
Outline dimension	Body	mm	845×180×275	845×180×275	
Package dimension	Body	mm	915×255×355	915×255×355	
Net weight	Body	kg	8.8	8.8	
Gross weight	Body	kg	11.8	11.8	
	20'GP (with	panel)	365	365	
Loading quantity	40'GP (with	panel)	765	765	
	40'HQ (with	panel)	850 850		
Wired	remote controller		-		
Wireles	s remote controlle	er	-		

	Model		FP-68BA3/B-K	FP-85BA3/B-K
Deverse	Туре	V-Ph-Hz	220-240	V~ 50Hz
Power system	Input	W	40	60
	1 Back	CFM	400	489
	High	m³/h	680	830
A: G 1		CFM	347	417
Air flow volume	Medium	m³/h	591	708
		CFM	312	363
	Low	m³/h	532	616
0	Cooling	W	3500	4550
Capacity	Heating	W	3850	4800
	Cooling water flow volume	l/s	0.17	0.22
Water system	Heating water flow volume	l/s	0.18	0.23
	Cooling pressure drop	kPa	40	65
	Heating pressure drop	kPa	44	68
Sound pressure level		dB(A)	43	48
	Туре	-	Aluminum fin	-copper tube
Coil	Operating pressure	MPa	≤1.6	MPa
Motor	Туре	-	FN13G	FN23A
	Capacitor	uF	1.5	1.5
Connection pipe	Water inlet & outlet	inch	1/2	2"
size	Condensing water drain	mm	15	.6
Outline dimension	Body	mm	940×200×298	940×200×298
Package dimension	Body	mm	1010×285×380	1010×285×380
Net weight	Body	kg	10.8	10.8
Gross weight	Body	kg	14.8	14.8
	20'GP (with	panel)	290	290
Loading quantity	40'GP (with	panel)	595	595
	40'HQ (with	panel)	671 671	
Wired	l remote controller			
Wireles	s remote controlle	er		

	Model		FP-51BWA2/A-K(E) FP-51BWA3/A-K(E)	FP-85BWA2/A-K(E) FP-85BWA3/A-K(E)	
Devices evictors	Туре	V-Ph-Hz	220-240	√~ 50Hz	
Power system	Input	W	43	69	
	Llink	CFM	265	382	
	High	m³/h	450	650	
Ainflowershume	Madium	CFM	225	329	
All now volume	wealum	m³/h	383	560	
	1	CFM	190	288	
	LOW	m³/h	323	490	
Conseitu	Cooling	W	1400	3100	
Capacity	Heating	W	2000	3300	
	Cooling water flow volume	l/s	0.07	0.15	
Water system	Heating water flow volume	l/s	0.1	0.16	
	Cooling pressure drop	kPa	20	53	
	Heating pressure drop	kPa	21	57	
Sound pr	essure level	dB(A)	42	50	
Coil	Туре	-	Aluminum fin-copper tube		
	Operating pressure	MPa	≤1.6	MPa	
Motor	Туре	-	FN20J-PG	FN20V-PG	
	Capacitor	uF	-	-	
Connection nine	Water inlet & outlet	inch	1/:	2"	
size	Condensing water drain	mm	15	.6	
Outline dimension	Body	mm	845×180×275	940×200×298	
Package dimension	Body	mm	915×255×355	1010×285×380	
Net weight	Body	kg	11	13	
Gross weight	Body	kg	14	17	
	20'GP (with p	anel)	365	290	
Loading quantity	40'GP (with p	anel)	765	595	
	40'HQ (with p	anel)	850 671		
Wire	d remote controller		XE70-17/E(M)		
Wirele	ess remote controller		YB1FA(MOTO)		

Notes:

Testing conditions for models connecting to power at 50Hz:

(b) Rated heating conditions—for the two-row coil type, dry bulb temperature: 20°C, wet bulb temperature: no more than 15°C, entering/leaving water temperature: 45°C/40°C

⁽a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19°C, entering/leaving water temperature: 7°C/12°C.

(c) The sound level is tested under the semi-anechoic chamber and the actual value will change under different conditions.

Testing conditions for models connecting to power at 60Hz:

- (a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19.5°C, entering/leaving water temperature: 7°C/12°C.
- (b) Rated heating conditions—dry bulb temperature: 21°C, entering water temperature: 60°C; water supply amount is equivalent to the amount in the rated cooling conditions.
- (c) The sound level is tested under the semi-anechoic chamber and the actual value will change under different conditions.
- ◆ A series floor-ceiling type (DC)

Model			FPD-34ZD/	FPD-51ZD/	FPD-68ZD/	FPD-85ZD/	FPD-102ZD/
	woder		A-S	A-S	A-S	A-S	A-S
	Code		EM56000410	EM56000400	EM56000450	EM56000420	EM56000430
Power	Type	V-Ph-		22	20-240\/~50/6	0Hz	
system	1990	Hz					
System	Input	W	25	25	34	65	59
	High	CFM	236	300	400	500	600
	- Tiigii	m3/h	400	510	680	850	1020
Air flow	Medium	CFM	206	247	324	406	501
volume	moulain	m3/h	350	420	550	690	850
	Low	CFM	177	206	253	318	412
		<u>m3/h</u>	300	350	430	540	700
	Cooling(EU)	W	2600	3000	3500	4100	5400
Capacity	Heating(EU)	W	3500	3900	4400	5200	6400
	Cooling(Non EU)	VV	2800	3200	3800	4500	5800
	Heating(Non EU)	VV	5300	5800	6700	8000	9800
	volume(EU)	l/s	0.12	0.14	0.17	0.2	0.26
	Heating water flow volume(FU)	l/s	0.17	0.19	0.21	0.25	0.3
	Cooling pressure	kPa	12	13	19	26	29
	Heating pressure	kPa	21	20	29	37	41
svetem	Cooling water flow						
System	volume(Non EU)	l/s	0.13	0.15	0.18	0.21	0.28
	Heating water flow	l/s	0.13	0.15	0.18	0.21	0.28
	volume(Non EU)	1,0	0.10	0.10	0.10	0.21	0.20
	drop(Non EU)	kPa	14	12	22	30	28
	Heating pressure	kPa	14	12	22	30	28
Sound	pressure level	dB(A)	50	51	55	61	58
		-		Alum	inum fin-copp	er tube	
Coil	Operating	MDo		,	<1 6MPo		
	pressure	IVII a					
Motor	Туре	-		FG40	B-ZL		FG150A-ZL
	Water inlet &	inch			Rc3/4		
Connection outlet				1,00/ 1			
pipe size	Condensing water drain	mm	n φ17×1.75 (OD* wall thickness)				
Outline dir	mension(W×D×H)	mm		870×23	35×665		1200×235×665
Package di	mension(W×D×H)	mm		970×28	35×767		1300×285×767
N	et weight	kg	24	24	24	24	31
Gro	oss weight	kg	29	29	29	29	37
					-		

Model		FPD-34ZD/	FPD-51ZD/	FPD-68ZD/	FPD-85ZD/	FPD-102ZD/	
		A-S	A-S	A-S	A-S	A-S	
Loading	20'GP (with panel)	119	119	119	119	84	
Loading	40'GP (with panel)	252	252	252	252	189	
Quantity	40'HQ (with panel)	288	288	288	288	216	
Wireless remote controller		YAP1F					
Wired	remote controller		XE7B-17/E(M)				

	Model			FPD-136ZD/	FPD-170ZD/	FPD-204ZD/
	0		A-S	A-S	A-S	A-S
	Code	V/Dh	EM56000440	EM56000370	EM56000470	EM56000360
Power	Туре	Hz		220-240V	~50/60Hz	
system	Input	W	73	110	81	115
	High	CFM	700	800	1000	1200
	Tign	m3/h	1190	1360	1700	2040
Air flow	Medium	CFM	577	636	736	825
volume	Mediam	m3/h	980	1080	1250	1400
		CFM	518	560	618	707
	LOW	m3/h	880	950	1050	1200
	Cooling(EU)	W	5700	6600	8600	9900
Consoity	Heating(EU)	W	7100	7700	10900	12000
Сарасну	Cooling(Non EU)	W	6000	6900	9000	10500
	Heating(Non EU)	W	10800	12700	16700	18500
	Cooling water flow volume(EU)	l/s	0.27	0.31	0.41	0.47
	Heating water flow volume(EU)	l/s	0.34	0.37	0.52	0.57
	Cooling pressure drop(EU)	kPa	30	33	26	35
Water	Heating pressure drop(EU)	kPa	39	45	41	48
system	Cooling water flow volume(Non EU)	l/s	0.29	0.33	0.43	0.5
	Heating water flow volume(Non EU)	l/s	0.29	0.33	0.43	0.5
	Cooling pressure drop(Non EU)	kPa	30	36	30	40
	Heating pressure drop(Non EU)	kPa	30	36	30	40
Soun	d pressure level	dB(A)	62	66	62	65
Coil	Туре	-		Aluminum fir	-copper tube	
Coll	Operating pressure	MPa		≤1.6	MPa	
Motor	Туре	-	FG150A-ZL FG250A-ZL			
Connection	Water inlet & outlet	inch		Rc	3/4	
pipe size	Condensing water drain	mm	φ17×1.75 (OD* wall thickness)			
Outline o	limension(W×D×H)	mm	1200×2	35×665	1570×2	35×665

	Model		FPD-119ZD/	FPD-136ZD/	FPD-170ZD/	FPD-204ZD/	
			A-S	A-S	A-S	A-S	
Package	dimension(W×D×H)	mm	1300×285×767		1666×2	1666×285×767	
	Net weight	kg	31	31	41	41	
Gross weight kg		kg	37	37	48	48	
	20'GP (with panel)		84	84	63	63	
Loading	40'GP (with panel)		189	189	147	147	
Quantity	40'HQ (with panel)		216	216	168	168	
Wireless remote controller			YAP1F				
Wi	red remote controller		XE7B-17/E(M)				

Notes:

- 1. Testing conditions for models used in EU countries and regions
- (a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19°C, entering/leaving water temperature: 7°C/12°C.
- (b) Rated heating conditions—dry/wet bulb temperature: 20°C/≤15°C, entering/leaving water temperature: 45°C/40°C.
- 2. Testing conditions for models used in non-EU countries and regions
- (a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19.5°C, entering/leaving water temperature: 7°C/12°C.
- (b) Rated heating conditions—dry bulb temperature: 21°C, entering water temperature: 60°C, the water flow is the same as that of the cooling condition.

3. Noise testing condition: the test condition is a semi-anechoic room, and the nominal value is the high-speed noise of the unit. The actual use changes due to changes of the environment.

	Model		FP-34ZD/	FP-51ZD/	FP-68ZD/	FP-85ZD/	FP-102ZD/	
	WOUEI		B-K	B-K	B-K	B-K	B-K	
	Code		EM56000340	EM56000330	EM56000350	EM56000460	EM56000380	
Power	Туре	V-Ph- Hz	220-240V~50Hz					
system	Input	W	44	48	58	60	97	
Link	High	CFM	235	306	400	425	600	
	High	m3/h	400	520	680	720	1020	
Air flow	Medium	CFM	195	247	323	340	488	
volume		m3/h	330	420	550	576	830	
	Laur	CFM	170	200	240	260	382	
	LOW	m3/h	290	340	410	440	650	
	Cooling(EU)	W	2400	2650	3350	3400	5200	
Consoity	Heating(EU)	W	3000	3500	4350	4400	6300	
Capacity	Cooling(Non EU)	W	2600	2900	3600	3650	5700	
	Heating(Non EU)	W	5000	5300	6400	6500	9800	

◆ B series floor-ceiling type (AC)

	Model		FP-34ZD/ B-K	FP-51ZD/ B-K	FP-68ZD/ B-K	FP-85ZD/ B-K	FP-102ZD/ B-K	
	Cooling water flow volume(EU)	l/s	0.12	0.13	0.16	0.16	0.25	
	Heating water flow volume(EU)	l/s	0.14	0.12	0.21	0.21	0.3	
	drop(EU)	kPa	12	13	17	18	30	
	Heating pressure drop(EU)	kPa	17	18	26	27	40	
system	flow volume(Non EU)	l/s	0.12	0.14	0.17	0.8	0.27	
	Heating water flow volume(Non EU)	l/s	0.12	0.14	0.17	0.8	0.27	
	Cooling pressure drop(Non EU)	kPa	12	13	18	19	34	
	Heating pressure drop(Non EU)	kPa	12	13	18	19	34	
Sound pressure level dB		dB(A)	34	35	37	38	42	
	Туре	-	Aluminum fin-copper tube					
Coil	Operating pressure	MPa	≤1.6MPa					
Motor	Туре	-	FN3	80A	FN4	0A	FN90A	
Connection	Water inlet & outlet	inch			Rc3/4			
pipe size	Condensing water drain	mm	φ17×1.75 (OD*wall thickness)					
Outline dim	ension(W×D×H)	mm		870×23	35×665		1200×235×665	
Ne	et weight	ka	24	24	24	24	32	
Gro	ss weight	kg	29	29	29	29	37	
	20'GP (with pa	anel)	119	119	119	119	84	
Loading	40'GP (with pa	inel)	252	252	252	252	189	
Quantity	40'HQ (with pa	anel)	288	288	288	288	216	
Wirele	ss remote controll	er		I	YAP1F		·	
Wire	d remote controlle	r	XE7B-17/E(M)					

Model			FP-119ZD/B-K	FP-136ZD/B-K	FP-170ZD/B-K	FP-204ZD/B-K
	Code		EM56000390	EM56000280	EM56000300	EM56000310
Power	Туре	V-Ph-Hz		220-240	V~50Hz	
system	Input	W	112	118	145	182
High	High	CFM	700	800	1000	1200
	підп	m3/h	1190	1360	1700	2040
Air flow	Modium	CFM	577	630	824	1048
volume	Medium	m3/h	980	1070	1400	1780
	1	CFM	435	494	695	795
	LOW	m3/h	740	840	1180	1350

	Model		FP-119ZD/B-K	FP-136ZD/B-K	FP-170ZD/B-K	FP-204ZD/B-K
	Cooling(EU)	W	5900	6000	9400	10000
	Heating(EU)	W	7200	7300	11600	12500
Canacity	Cooling(Non	10/	0000	0000	0000	40500
Capacity	EU)	VV	6800	6900	9900	10500
	Heating(Non	W	11400	11500	17400	19000
	EU)		11100	11000	17 100	10000
	Cooling water	l/s	0.28	0.29	0.45	0.48
	Heating water					
	flow volume(FU)	l/s	0.34	0.35	0.55	0.59
	Cooling			31		
	pressure	kPa	30		34	38
	drop(EU)					
	Heating					
	pressure	kPa	42	43	47	53
	drop(EU)					
Wator	water flow					
system	volume(Non	l/s	0.32	0.33	0.47	0.5
System	EU)					
_	Heating					0.5
	water flow	l/e	0.32	0.33	0.47	
	volume(Non	1/5	0.52	0.00	0.47	0.5
	EU)					
	Cooling	kD-	25	20	07	44
	pressure	кра	35	30	37	41
	Heating					
	pressure	kPa		36	37	41
	drop(Non EU)					
Sound p	ressure level	dB(A)	47	48	47	52
	Туре	-		Aluminum fin	-copper tube	
Coil	Operating	MPa		<1.6	MPa	
	pressure	ivii u		=1.01		
Motor	Туре	-	FN	90A	FN150B	FN180E
Connection	vvater inlet &	inch		Rc	3/4	
nine size	Condensing					
	water drain	mm		φ17×1.75 (OD*	wall thickness)	
Outline dim	ension(W×D×H)	mm	1200×2	35×665	1570×2	35×665
Pa	ackage	mm	1200×2	<u>95×767</u>	1666×2	95×767
dimensi	ion(W×D×H)		1300^2	00~707	1000^2	03~707
Ne	t weight	kg	32	32	43	43
Gros	ss weight	kg	37	37	50	50
Loading	20'GP (with p	oanel)	84	84	63	63
Quantity	40'GP (with p	oanel)	189	189	147	147
	40'HQ (with p	banel)	216	216	168	168
Wirele	ess remote contro	oller		YAF	P1F	
Wired remote controller		XE7B-17/E(M)				

- 1. Testing conditions for models used in EU countries and regions
- (a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19°C, entering/leaving water temperature: 7°C/12°C.
- (b) Rated heating conditions—dry/wet bulb temperature: 20°C/≤15°C, entering/leaving water temperature: 45°C/40°C.
- 2. Testing conditions for models used in non-EU countries and regions
- (a) Rated cooling conditions—dry/wet bulb temperature: 27°C/19.5°C, entering/leaving water temperature: 7°C/12°C.
- (b) Rated heating conditions—dry bulb temperature: 21°C, entering water temperature: 60°C, the water flow is the same as that of the cooling condition.

3. Noise testing condition: the test condition is a semi-anechoic room, and the nominal value is the high-speed noise of the unit. The actual use changes due to changes of the environment.

1.3.2 Outline dimensions

Vertical mounted exposed type





Unit: mm

Model	Α	В	С	D	E
FP-22LM/D-K	895	680	585	230	568
FP-34LM/D-K	895	680	585	230	568
FP-51LM/D-K	1050	680	585	230	723
FP-68LM/D-K	1050	680	585	230	723
FP-85LM/D-K	1050	680	585	230	723
FP-102LM/D-K	1350	680	585	230	1023
FP-119LM/D-K	1350	680	585	230	1023
FP-136LM/D-K	1350	680	585	230	1023
FP-170LM/D-K	1773	680	585	230	1446
FP-204LM/D-K	1773	680	585	230	1446



	Model	Α	В	С	D	E	F	Н
	FP-51XD/A-K FP-68XD/A-K	670	596	594	570	570	240	60
	FP-85XD/B-T FP-102XD/B-T	950	890	840	680	780	190	85
	FP-125XD/B-T FP-140XD/B-T FP-160XD/B-T	950	890	840	680	780	240	85
Two-coil type	FP-180XD/B-T FP-200XD/B-T	950	890	840	680	780	320	85
	FP-238XD/C-K	1040	975	910	790	840	293	85
	FP-85XD/B-T(E) FP-102XD/B-T(E)	950	890	840	680	780	190	85
	FP-125XD/B-T(E) FP-140XD/B-T(E) FP-160XD/B-T(E)	950	890	840	680	780	240	85
	FP-180XD/B-T(E)	950	890	840	680	780	320	85
	FP-68XDT/B-K FP-85XDT/B-K	950	890	840	680	780	190	85
Four-coil	FP-102XDT/B-K FP-125XDT/B-K FP-140XDT/B-K	950	890	840	680	780	240	85
type	FP-180XDT/B-K FP-200XDT/B-K	950	890	840	680	780	320	85
	FP-68XDT/B-K(E) FP-85XDT/B-K(E)	950	890	840	680	780	190	85
	FP-125XDT/B-K(E)	950	890	840	680	780	240	85
	FP-180XDT/B-K(E)	950	890	840	680	780	320	85

◆ A series cassette type (DC)





H(Thickness of the Unit)

Model	A	В	С	D	E	F	G	Н	К
FPD-51/68XD/A-S	620	580	570	530	505	530	550	260	65
FPD-85/102/119XD/A-S	950	890	840	680	780	680	780	200	65
FPD-136XD/A-S	950	890	840	680	780	680	780	240	65
FPD-170/204XD/A-S	950	890	840	680	780	680	780	290	65
FPD-238XD/A-S	1040	975	910	790	840	790	840	293	85

◆ Wall mounted type (AC)





С

200

Model	Α	В	С	Model	Α	В
FP-34BA2/D-K(E) FP-34BA3/D-K(E) FP-34BA4/D-K(E) FP-51BA2/D-K(E) FP-51BA3/D-K(E) FP-51BA4/D-K(E)	845	275	180	FP-68BA2/D-K(E) FP-68BA3/D-K(E) FP-68BA4/D-K(E) FP-85BA2/D-K(E) FP-85BA3/D-K(E) FP-85BA4/D-K(E)	940	298

Model	Α	В	С	Model	Α	В	С
FP-34BA2/D-K FP-34BA3/D-K FP-34BA4/D-K FP-51BA2/D-K FP-51BA3/D-K FP-51BA4/D-K	845	275	180	FP-68BA2/D-K FP-68BA3/D-K FP-68BA4/D-K FP-85BA2/D-K FP-85BA3/D-K FP-85BA4/D-K	940	298	200
FP-34BA2/B-D FP-34BA3/B-D FP-51BA2/B-D FP-51BA3/B-D	845	275	180	FP-68BA2/B-D FP-68BA3/B-D FP-85BA2/B-D FP-85BA3/B-D FP-102BA2/B-D FP-102BA3/B-D	940	298	200
FP-34BA3/B-K FP-51BA3/B-K	845	275	180	FP-68BA3/B-K FP-85BA3/B-K	940	298	200
FP-51BWA2/A-K(E) FP-51BWA3/A-K(E)	845	275	180	FP-85BWA2/A-K(E) FP-85BWA3/A-K(E)	940	298	200

◆ A series wall mounted type (DC)

Model	Α	В	С	Model	Α	В	С
FPD-34BB4/A-K FPD-34BB6/A-K FPD-51BB4/A-K FPD-51BB6/A-K FPD-68BB4/A-K FPD-68BB6/A-K	845	289	209	FPD-85BB4/A-K FPD-85BB6/A-K	970	360	280

◆ A series floor-ceiling type (DC)/B series floor-ceiling type (DC)

Unit: mm





Model	Α	В	С	D	Е
FPD-34/51/68/85ZD/A-S FP-34/51/68/85ZD/B-K	870	235	812	280	665
FPD-102/119/136ZD/A-S FP-102/119/136ZD/B-K	1200	235	1142	280	665
FPD-170/204ZD/A-S FP-170170/204ZD/B-K	1570	235	1512	280	665

2 Exploded views and parts list

2.1 Vertical mounted exposed type

The data below is just for reference. All specifications are subject to change by the manufacturer without prior notice.

(1) FP-22LM/D-K, FP-34LM/D-K (list code: EM51600280)



No.	Name	Quantity	
1	Display panel Cover	1	
2	Grille	Grille 1	
3	Display panel Cover	1	
4	Displayer Box 1		
5	Base Deck Assy	1	
6	Cellular	1	
7	Surface-Cooler Assy	1	
8	Connection Panel	1	

No.	Name	Quantity		
9	Cellular	1		
10	Centrifugal Fan Assy	1		
11	Right Side Plate Assy	1		
12	Closed Panel	1		
13	Propeller Housing	1		
14	Right Side Plate	1		
15	Centrifugal fan blade	1		
16	Propeller Housing	1		
17	Base	1		
18	Panel	1		
19	Connection Panel	1		
20	Cellular Assy	1		
21	Filter Assy	1		
22	Bar Clasp	2		
23	Support sub-assy	1		
24	Motor	1		
25	Motor Support Assy	1		
26	Base	1		
27	Cable cross loop	2		
28	Wire Clamp	1		
29	Insulated Gasket	1		
30	Capacitance	1		
31	Terminal Board	1		
32	Terminal Board 1			
33	Cable cross loop 6			
34	Electric Box Cover	1		
35	Left Side Plate	1		
36	Left Side Plate Assy	1		
37	Cellular	1		
38	Cable cross loop	1		
39	Connection Panel	1		
40	Display Panel 1			

Produc	ct
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No.	Name Quantity		
1	Display panel Cover	1	
2	Grille	1	
3	Display panel Cover	1	
4	Displayer Box	1	
5	Base Deck Assy	1	
6	Cellular	1	
7	Surface-Cooler Assy	1	
8	Connection Panel	1	
9	Cellular	1	
10	Centrifugal Fan Assy 1		
11	Right Side Plate Assy	1	
12	Closed Panel 1		
13	Propeller Housing 2		
14	Right Side Plate	1	
15	Centrifugal fan blade 2		

No.	Name	Quantity	
16	Propeller Housing	2	
17	Base	1	
18	Filter Assy	1	
19	Panel	1	
20	Connection Panel	1	
21	Support sub-assy	1	
22	Bar Clasp	2	
23	Motor	1	
24	Cellular Assy	1	
25	Motor Support Assy	1	
26	Cable cross loop	2	
27	Wire Clamp	1	
28	Insulated Gasket	1	
29	Capacitance	1	
30	Terminal Board	1	
31	Terminal Board	1	
32	Cable cross loop	6	
33	Base	1	
34	Electric Box Cover	1	
35	Left Side Plate	1	
36	Left Side Plate Assy	1	
37	Cellular 1		
38	Cable cross loop	1	
39	Connection Panel	1	
40	Display Panel 1		

Product



No.	Name	Quantity
15	Centrifugal fan blade	2
16	Propeller Housing	2
17	Base	1
18	Filter Assy	1
19	Connection Panel	1
20	Panel	1
21	Support sub-assy	1
22	Bar Clasp	2
23	Motor	1
24	Motor Support	1
25	Cellular Assy	1
26	Cable cross loop	2
27	Wire Clamp	1
28	Insulated Gasket	1
29	Capacitance	1
30	Terminal Board	1
31	Terminal Board	1
32	Cable cross loop	6
33	Base	1
34	Electric Box Cover	1
35	Left Side Plate	1
36	Left Side Plate Assy	1
37	Cellular	1
38	Cable cross loop	1
39	Connection Panel	1
40	Display Panel	1



No.	Name	Quantity
1	Display Board Cover	1
2	Front Grill	2
3	Foam	1
4	Surface-Cooler Assy	1
5	Display Box	1
6	Right Side Plate	1
7	Connection Board	1
8	Foam	1
9	Rear Case	1
10	Right Side Plate Sub-Assy	1
11	Propeller Housing(Lower)	4
12	Propeller Housing(Upper)	4

No.	Name	Quantity
13	Centrifugal Fan	4
14	Foam Sub- Assy	1
15	Air Outlet Assy	1
16	Front Panel	1
17	Motor Support	2
18	Fan Motor	2
19	Connection Sheet Sub-Assy	1
20	Connection Board	1
21	Connection Sheet Sub-Assy	1
22	Filter Sub-Assy	2
23	Rear Case	1
24	Left Side Plate Sub-Assy	1
25	Cable Cross Loop	2
26	Left Side Plate	1
27	Electric Box Cover	1
28	Wire Clamp	1
29	Capacitor CBB61	2
30	Display Board Cover	1
31	Insulation Gasket	1
32	Terminal Board	1
33	Terminal Board	1
34	Cable Cross Loop	4
35	Cable Cross Loop	1
36	Foam	1
37	Support Sub-assy	2
38	Bar Clasp	4
39	Seat Board Sub-Assy	1
40	Clapboard Sub-Assy	1
41	Display Board Cover	1



No.	Name	Quantity
16	Front Panel	1
17	Motor Support	2
18	Fan Motor	2
19	Connection Sheet Sub-Assy	1
20	Connection Board	1
21	Connection Sheet Sub-Assy	1
22	Filter Sub-Assy	2
23	Rear Case	1
24	Left Side Plate Sub-Assy	1
25	Cable Cross Loop	2
26	Left Side Plate	1
27	Electric Box Cover	1
28	Wire Clamp	1
29	Capacitor CBB61	2
30	Display Board Cover	1
31	Insulation Gasket	1
32	Terminal Board	1
33	Terminal Board	1
34	Cable Cross Loop	4
35	Cable Cross Loop	1
36	Foam	1
37	Support Sub-assy	2
38	Bar Clasp	4
39	Seat Board Sub-Assy	1
40	Clapboard Sub-Assy	1
41	Display Board Cover	1

2.2 Cassette type (AC)

(1) FP-85XD/B-T, FP-102XD/B-T, FP-125XD/B-T, FP-140XD/B-T, FP-160XD/B-T, FP-180XD/B-T, FP-200XD/B-T, FP-85XD/B-T(E), FP-102XD/B-T(E), FP-125XD/B-T(E), FP-140XD/B-T(E), FP-160XD/ B-T(E), FP-180XD/B-T(E)



No.	Name	Quantity
1	Tube-exit Plate	1
2	Body Fixing Plate	4
3	Front Side Plate	1
4	Left Side Plate	1
5	Base Plate	1
6	Rear Side Plate	1
7	Bottom Foam	1
8	Motor Gasket	4
9	Bolt	4
10	Motor Support	1
11	Motor	1
12	Centrifugal Fan	1
13	Connected Board (Evaporator)	1
14	Cable-cross Loop	2
15	Heat exchanger	1
16	Water Tray	1
17	Flow-guide Loop	1
18	Electric Box asm	1
19	Electric Box	1
20	Wire Clamp	2
21	Terminal Board	1
22	Tube sensor	1
23	Transformer	1
24	Electric Box Cover	1
25	Room sensor	1
26	Main PCB	1
27	Capacitor	1
28	Remote Controller	1
29	Evap Support	2
30	Nut with Washer	1
31	Fixer	1
32	Water Pump	1
33	Pump Gasket	3
34	Pump Support	1
35	Water Level Switch	1
36	Pump Drainpipe	1
37	Right Side Plate	1
38	Pump Cover Board	1

(2) FP-68XDT/B-K, FP-68XDT/B-K(E), FP-85XDT/B-K, FP-85XDT/B-K(E), FP-102XDT/B-K, FP-125XDT/B-K, FP-125XDT/B-K(E), FP-140XDT/B-K, FP-180XDT/B-K, FP-180XDT/B-K(E), FP-200XDT/B-K



No.	Name	Quantity
1	Tube Exit Plate Assy	1
2	Body Fixing Plate	4
3	Front Side Plate	1
4	Left Side Plate	1
5	Base Plate	1
6	Rear Side Plate	1
7	Bottom Foam	1
8	Motor Gasket	4
9	Motor Support	1
10	Motor	1
11	Centifugal Fan	1
12	Evap Connection	1
13	Deflation Valve	2
14	Valve chest (air release valve)	2
15	Valve chest (air release valve)	2
16	Water Tray	1
17	Flow-guide Loop	1
18	Electric Box asm	1
19	Electric Box	1
20	Terminal Board	1
21	Tube sensor	1
22	Transformer	1
23	Electric Box Cover	1
24	Room sensor	1
25	Tube sensor	1
26	Main PCB	1
27	Capacitor	1
28	Remote Controller	1
29	Heat exchanger	1
30	Water Pump	1
31	Water Level Switch	1
32	Pump Drainpipe	1
33	Right Side Plate	1
34	Pump Cover Board	1

(3) FP-51XD/A-K, FP-68XD/A-K



No.	Name	Quantity
1	Rear Grill	1
2	Fan Motor	1
3	Water Tray Assy	1
4	Water Pump	1
5	Supporter	1
6	Liquid Level Switch	1

No.	Name	Quantity
7	Pump Drainpipe	1
8	Water Pump Assy	1
9	Right Side Plate Sub-Assy	2
10	Bottom Foam Assy	1
11	Base Plate Assy	1
12	Body Installing Support	4
13	Left Side Plate Sub-Assy	1
14	Electric Box Assy	1
15	Terminal Board	1
16	Breadboard Holder	1
17	Main Board	1
18	Capacitor CBB61	1
19	Transformer	1
20	Front Side Plate Sub-Assy	1
21	Drain Hose Sub-Assy	1
22	Room Sensor	1
23	Temperature Sensor	1
24	Remote Controller	1
25	Surface-Cooler Assy	1
26	Supporter(Evaporator)	3
27	Centrifugal Fan	1
28	Diversion Circle	1

2.3 A series cassette type (DC)

(1) FPD-51XD/A-S, FPD-68XD/A-S



No.	Name	Quantity
1	Shell Assy	1
2	Seat Board Sub-Assy	1
3	Side Plate	1
4	Side Plate	1
5	Side Plate	1
6	Side Plate	1
7	Brushless DC Motor	1
8	Centifugal Fan	1
9	Terminal Board	1
10	Main Board	1
11	Jumper	1
12	Mounting Rack Sub-Assy	4
13	Connection Sheet Sub-Assy	1
14	Drain Pipe	1
15	Water Pump	1
16	Liquid Level Switch	1
17	Sealplate	1
18	Water Tray Assy	1

No.	Name	Quantity
19	Flow Guide Loop	1
20	Temperature Sensor	1
21	Support	1

(2) FPD-85XD/A-S, FPD-102XD/A-S, FPD-119XD/A-S, FPD-136XD/A-S, FPD-170XD/A-S, FPD-204XD/A-S



No.	Name	Quantity
1	Shell Assy	1
2	Seat Board Sub-Assy	1
3	Side Plate	1
4	Side Plate	1
5	Side Plate	1
6	Side Plate	1
7	Brushless DC Motor	1
8	Centifugal Fan	1
9	Terminal Board	1
10	Main Board	1
11	Jumper	1
12	Mounting Rack Sub-Assy	4
13	Connection Sheet Sub-Assy	1
14	Drain Pipe	1
15	Water Pump	1

No.	Name	Quantity
16	Liquid Level Switch	1
17	Sealplate	1
18	Water Tray Assy	1
19	Flow Guide Loop	1
20	Temperature Sensor	1
21	Support	1

(3) FPD-238XD/A-S



No.	Name	Quantity
1	Shell Assy	1
2	Seat Board Sub-Assy	1
3	Rear Side Plate	1
4	Right and Left Side Plate	2
5	Brushless DC Motor	1
6	Centrifugal Fan	1
7	Fan Fixer	1
8	Terminal Board	1
9	Terminal Board	1
10	Main Board	1
11	Body Installing Plate	4
12	Fixed Mount1	3
13	Liguid Level Switch Sub-assy	1

14	Water Level Switch	1
15	Electric Box Cover Plate	1
16	Water Tray Sub-Assy	1
17	Water Pump	1
18	Pump Gasket 2	1
19	Pump Gasket 1	1
20	Rubber Base	3
21	Water Pump Assy	1
22	Drainage Hose(Water Pump)	1
23	Diversion Circle	1

The above parameters are for reference only. The specific parameters shall be subject to the actual objects. If there is any change, no further notice will be given.

2.4 Wall mounted type (DC)

(1) FPD-34BB4/A-K, FPD-34BB6/A-K, FPD-51BB4/A-K, FPD-51BB6/A-K, FPD-68BB4/A-K, FPD-

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68BB6/A-K
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No.	Name	Quantity
2	Rear Case assy	1
3	Stainless steel clasp	3
4	Sensor Insert	1
5	Shield Cover of Electric Box	
5	Cover 2	1
6	Electric Box Cover2	1
7	Shield Cover of Electric Box Cover	1
8	Display Board	1
9	Terminal Board	1
10	Cable Clamp 2	1
11	Main Board	1
12	Electric Box	1
13	Drainage Hose	1
14	Remote Controller	1
15	Power Cord	1
16	Temperature Sensor	1
17	Temperature Sensor	1
18	Fan Motor	1
19	Air relief valve core	1
20	Surface-Cooler Assy	1
21	Front Case Assy	1
22	Filter Sub-Assy	2
23	Front Panel	1
24	Cross Flow Fan	1
25	Air Louver 2	1
26	Air Louver 1	1
27	Guide Louver	1
28	Crank	1
29	Stepping Motor	1
30	Helicoid Tongue	1
31	Rubber Plug (Water Tray)	1
32	Axile Bush	1
33	Left Axile Bush	1
34	Fan Bearing	1
35	O-Gasket of Cross Fan Bearing	1
36	Ring of Bearing	1
37	Evaporator Support	1

Note: The data in the table above is just for reference. We reserve the right to change design and construction specifications at any time without notice.



No.	Name	Quantity
1	Wall Mounting Frame	1
2	Rear Case	1
3	Stainless steel clasp	3
4	Sensor Insert	1
5	Shield Cover of Electric Box Cover 2	1
6	Electric Box Cover2	1
7	Shield Cover of Electric Box Cover	1
8	Display Board	1
9	Terminal Board	1
10	Cable Clamp 2	1
11	Main Board	1
12	Electric Box	1
13	Crank	1
14	Stepping Motor	1
No.	Name	Quantity
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15	Remote Controller	1
16	Drainage Hose	1
17	Rubber Plug (Water Tray)	1
18	Power Cord	1
19	Temperature Sensor	1
20	Temperature Sensor	1
21	Fan Motor	1
22	Air relief valve core	1
23	Surface-Cooler Assy	1
24	Front Case Assy	1
25	Front Panel	1
26	Filter Sub-Assy	2
27	Cross Flow Fan	1
28	Air Louver(Manual)	3
29	Guide Louver	1
30	Helicoid Tongue	1
31	Axile Bush	2
32	Left Axile Bush	1
33	Evaporator Support	1
34	Ring of Bearing	1
35	O-Gasket of Cross Fan Bearing	1
36	Fan Bearing	1

2.5 Wall mounted type (AC)

4

5

(1) FP-34BA2/D-K(E), FP-34BA3/D-K(E), FP-34BA4/D-K(E), FP-51BA2/D-K(E), FP-51BA3/D-K(E), FP-51BA4/D-K(E), FP-34BA2/D-K, FP-34BA3/D-K, FP-51BA4/D-K, FP-34BB3/A-K(E), FP-51BB3/A-K(E), FP-34BA2/B-D, FP-34BA3/B-D, FP-51BA2/B-D, FP-51BA3/B-D



Evaporator Support

Cross Flow Fan

1

1

No.	Name	Quantity
6	Ring of Bearing	1
7	Bearing cushion rubber base	1
8	Volute tongue	1
9	Left Axile Bush	1
10	Crank	1
11	Axile Bush	1
12	Swing Louver1	1
13	Swing Louver2	1
14	Front Case	1
15	Filter	2
16	Remote Control	1
17	Decorate Piece	1
18	Display Board	1
19	Front Panel	1
20	Screw Cover	1
21	Guide Louver	1
22	Wire Clamp	1
23	Rear Clamp	1
24	Motor MP24AA	1
25	Motor Clamp	1
26	Motor	1
27	Electric Box Cover 1	1
28	Covering Plate2	1
29	Terminal Board	1
30	Electric Box	1
31	Main PCB Z5P251A	1
32	Jumping Connector	1
33	Transformer 48X26G	1
34	Power Cable	1

(2) FP-68BA2/D-K(E), FP-68BA3/D-K(E), FP-68BA4/D-K(E), FP-85BA2/D-K(E), FP-85BA3/D-K(E), FP-85BA4/D-K(E), FP-68BA3/D-K, FP-68BA3/D-K, FP-85BA4/D-K, FP-68BB3/A-K(E), FP-85BB3/A-K(E), FP-68BA2/B-D, FP-68BA3/B-D, FP-85BA3/B-D, FP-85BA3/B-D, FP-85BA3/B-D, FP-85BA3/B-D



No.	Name	Quantity
1	Front Panel Assy	1
2	Filter Sub-Assy	2
3	Front Case	1
4	Screw Cover	1
5	Display Board	1
6	Rubber Plug (Water Tray)	1
7	Evaporator Assy	1
8	Cross Flow Fan	1
9	Ring of Bearing	1
10	Rear Case Assy	1
11	Wall Mounting Frame	1
12	Helicoid tongue	1
13	Air Louver 1	1
14	Axile Bush	1
15	Left Axile Bush	1
16	Guide Louver	1
17	crank	1
18	Step Motor	1

No.	Name	Quantity
19	Air Louver 2	1
20	Drainage hose	1
21	Pipe Clamp	1
22	Fan Motor	1
23	Motor Press Plate	1
24	Electric Box	1
25	Main Board	1
26	Transformer	1
27	Terminal Board	1
28	Electric Box Cover1	1
29	Shield cover of Electric Box	1
30	Electric Box Cover2	1
31	Tube Sensor	1
32	Ambient Temperature Sensor	1
33	Remote Controller	1
34	Power Cord	1
35	Jumping Connector	1

(3) FP-34BA3/B-K, FP-51BA3/B-K

3



Surface-Cooler Assy

1

No.	Name	Quantity
4	Evaporator Support	1
5	Cross Flow Fan	1
6	Ring of Bearing	1
7	Bearing cushion rubber base	1
8	Volute Tongue	1
9	Left Axile Bush	1
10	Crank	1
11	Axile Bush	1
12	Swing Louver1	1
13	Swing Louver2	1
14	Front Case	1
15	Filter Assy	2
16	Decorate Piece	1
17	Front Panel	1
18	Guide Louver	1
19	Screw Cover	1
20	Wire Clamp	1
21	Rear Clamp	1
22	Stepping Motor	1
23	Motor Clamp	1
24	Motor	1
25	Electric Box Cover 1	1
26	Electric Box Cover 2	1
27	Terminal Board	1
28	Installation Supporting Frame	1
29	Capacitor	1
30	Electric Box	1



No.	Name	Quantity
1	Front Panel Assy	1
2	Filter Sub-Assy	1
3	Front Case	1
4	Screw Cover	1
5	Rubber Plug (Water Tray)	1
6	Surface Cooler Assy	1
7	Cross Flow Fan	1
8	Ring of Bearing	1
9	Rear Case assy	1
10	Wall Mounting Frame	1
11	Volute tongue	1
12	Air Louver 1	1
13	Axile Bush	1
14	Left Axile Bush	1
15	Guide Louver	2
16	Crank	1
17	Stepping Motor	1
18	Swing Louver2	1

No.	Name	Quantity
19	Drainage hose	1
20	Rear Clamp	1
21	Motor	1
22	Motor Press Plate	1
23	Electric Box	1
24	Capacitor	1
25	Installation Supporting Frame	1
26	Terminal Board	1
27	Electric Box Cover 1	1
28	Shield cover of Electric Box	1
29	Electric Box Cover 2	1
30	Electric Box Assy	1
31	Evaporator Angular	1
32	Pipe Connection Assembly	1
33	Blow Molding Drainage Pipe	1



No.	Name	Quantity
9	Left Axile Bush	1
10	Crank	1
11	Axile Bush	1
12	Swing Louver1	1
13	Swing Louver2	1
14	Front Case	1
15	Filter	2
16	Remote Control	1
17	Decorate Piece	1
18	Display Board	1
19	Front Panel	1
20	Screw Cover	1
21	Guide Louver	1
22	Wire Clamp	1
23	Rear Clamp	1
24	Motor MP24AA	1
25	Motor Clamp	1
26	Motor	1
27	Electric Box Cover 1	1
28	Covering Plate2	1
29	Terminal Board	1
30	Electric Box	1
31	Main PCB Z5P251A	1
32	Jumping Connector	1
33	Transformer 48X26G	1
34	Power Cable	1



No.	Name	Quantity
1	Front Panel Assy	1
2	Filter Sub-Assy	2
3	Front Case	1
4	Screw Cover	1
5	Display Board	1
6	Rubber Plug (Water Tray)	1
7	Evaporator Assy	1
8	Cross Flow Fan	1
9	Ring of Bearing	1
10	Rear Case Assy	1
11	Wall Mounting Frame	1
12	Helicoid tongue	1
13	Air Louver 1	1
14	Axile Bush	1
15	Left Axile Bush	1
16	Guide Louver	1
17	crank	1
18	Stepping Motor	1
19	Air Louver 2	1
20	Drainage hose	1

No.	Name	Quantity
21	Pipe Clamp	1
22	Fan Motor	1
23	Motor Press Plate	1
24	Electric Box	1
25	Main Board	1
26	Transformer	1
27	Terminal Board	1
28	Electric Box Cover1	1
29	Shield cover of Electric Box	1
30	Electric Box Cover2	1
31	Tube Sensor	1
32	Ambient Temperature Sensor	1
33	Remote Controller	1
34	Power Cord	1

Note: The data in the table above is just for reference. We reserve the right to change design and construction specifications at any time without notice.

2.6 A series floor-ceiling type (DC)

(1) FPD-34ZD/A-S, FPD-51ZD/A-S, FPD-68ZD/A-S, FPD-85ZD/A-S



No.	Name	Quantity
1	FrontGrill	2
2	TopCover	1
3	GuideLouver	2
4	DisplayBoardAssy	1
5	DrainagePipeSub-assy	1
6	WaterTray	1
7	PropellerHousing(Upper)	2
8	CentifugalFan	2
9	Brushless DC Motor	1
10	FrontPanel	1
11	Surface-CoolerAssy	1
12	PropellerHousing(Lower)	2

No.	Name	Quantity
13	TemperatureSensor	1
14	TemperatureSensor	1
15	RearSidePlateSub-Assy	1
16	BasePlateAssy	1
17	ElectricBoxSub-Assy	1
18	MainBoard	1
19	TerminalBoard	1
20	ElectricBoxCover	1
21	LeftSidePlate	1

⁽²⁾ PD-102ZD/A-S, FPD-119ZD/A-S, FPD-136ZD/A-S



No.	Name	Quantity
1	Front Grill	3
2	Front Grill	3
3	Filter Sub-Assy	3
4	Water Tray Assy	1
5	Top Cover	1

No.	Name	Quantity
6	Drainage Pipe Sub-assy	1
7	Water Tray 1	
8	Swing Lever	3
9	Air Louver 15	
10	Support	2
11	Right Side Plate	1
12	Installation Supporting	1
13	Cover Plate(Inlet and outlet Pine)	1
1/	Right Side Plate	1
15	Temperature Sensor	1
16	Surface-Cooler Assy	1
17	Mounting Rack Sub-Assy	1
18	Front Panel	1
19	Guide Louver	2
20	Rotating Shaft 3	<u> </u>
20	Mounting Back Sub-Assy	1
22	Display Board Assy	1
23	Display Board	1
20	Membrane	1
25	Base Plate Assy	1
26	Cover Plate(Inlet and outlet Pine)	1
20	Connection Sheet	1
28	Seat Board Sub-Assy	1
29	Electric Box Sub-Assy	1
30	Main Board	1
31	Location Limited Plate	1
32	Electric Box Cover	1
33	Installation Supporting	1
	Frame(left)	1
34	Left Side Plate	1
35	Terminal Board 1	
36	Clapboard Sub-Assy	1
37	Propeller Housing(Lower)	3
38	Support Of Motor Bearing	1
39	Supporter	1
40	Centifugal Fan	3
41	Location Limited Plate	1
42	Propeller Housing(Upper)	3
43	Rear Side Plate Sub-Assy	1
44	Base plate 2 1	
45	Filter Sub-Assy	2
46	Roller Wheel	1
47	Joint Slack	1
48	Motor Support Sub-Assy	1
49	Brushless DC Motor	1
50	Adhesive Cover (Drainage Pipe) 1	
51	Stepping Motor 2	
52	Temperature Sensor	1



No.	Name	Quantity
1	Base Plate Assy	1
2	Seat Board Sub-Assy	1
3	Cover Plate(Inlet and outlet Pipe)	1
4	Connection Sheet	1
5	Display Board Assy	1
6	Membrane	1
7	Display Board	1
8	Stepping Motor	2
9	Mounting Rack Sub-Assy	1
10	Guide Louver	2
11	Rotating Shaft 3	6
12	Front Panel	1
13	AXILE BUSH 2	
14	Mounting Rack Sub-Assy	1

No.	Name	Quantity	
15	Surface-Cooler Assy	1	
16	Temperature Sensor	1	
17	Right Side Plate	1	
18	Cover Plate(Inlet and outlet Pipe)	1	
19	Installation Supporting Frame(right)	1	
20	Right Side Plate	1	
21	Water Tray Assy	1	
22	Support	3	
23	Air Louver	20	
24	Swing Lever	4	
25	Water Tray	1	
26	Drainage Pipe Sub-assy	1	
27	Top Cover	1	
28	Front Grill	4	
29	Filter Sub-Assy	4	
30	Front Grill	4	
31	Temperature Sensor	1	
32	Rear Side Plate Sub-Assy	1	
33	Adhesive Cover (Drainage Pipe)	1	
34	Location Limited Plate	2	
35	Filter Sub-Assy	3	
36	Propeller Housing(Upper)	4	
37	Centifugal Fan	4	
38	Brushless DC Motor	1	
39	Joint Slack	2	
40	Fan Nesting	4	
41	Roller Wheel	2	
42	Motor Support Sub-Assy	1	
43	Support Of Motor Bearing	2	
44	Supporter	2	
45	Propeller Housing(Lower) 4		
46	Clapboard Sub-Assy 1		
47	Electric Box Sub-Assy 1		
48	Terminal Board 1		
49	Main Board	1	
50	Electric Box Cover	1	
51	Installation Supporting 1		
52	Left Side Plate	e Plate 1	
53	Location Limited Plate 1		

The above parameters are for reference only. The specific parameters shall be subject to the actual objects. If there is any change, no further notice will be given.

2.7 B series floor-ceiling type (AC)

(1) FP-34ZD/B-K, FP-51ZD/B-K, FP-68ZD/B-K, FP-85ZD/B-K



No.	Name	Quantity
1	FrontGrill	2
2	TopCover	1
3	GuideLouver	2
4	DisplayBoardAssy	1
5	DrainagePipeSub-assy	1
6	WaterTray	1
7	PropellerHousing(Upper)	2
8	CentifugalFan	2
9	FanMotor 1	
10	FrontPanel	1

No	Name	Quantity
		Quantity
11	Surface-CoolerAssy 1	
12	PropellerHousing(Lower)	2
13	TemperatureSensor	1
14	TemperatureSensor	1
15	RearSidePlateSub-Assy	1
16	BasePlateAssy	1
17	ElectricBoxAssy	1
18	ElectricBoxSub-Assy	1
19	MainBoard	1
20	TerminalBoard	1
21	TerminalBoard	1
22	ElectricBoxCover 1	
23	LeftSidePlate	1

(2) FP-102ZD/B-K, FP-119ZD/B-K, FP-136ZD/B-K



No.	Name	Quantity	
1	Front Panel	1	
2	Front Grill	3	
3	Guide Louver	2	
4	Top Cover	1	
5	Drainage Pipe Sub-assy	1	
6	Display Board	1	
7	Display Board Assy	1	
8	Water Tray Assy	1	
9	Propeller Housing(Upper)	3	
10	Centifugal Fan	3	
11	Stepping Motor	2	
12	Roller Wheel	1	
13	Temperature Sensor	1	
14	Bearing Holder Sub-assy	1	
15	Propeller Housing(Lower)	3	
16	Surface-Cooler Assy	1	
17	Right Side Plate	1	
18	Rear Side Plate Sub-Assy	1	
19	Seat Board Sub-Assy	1	
20	Connection Sheet	1	
21	Temperature Sensor	1	
22	Electric Box Assy	1	
23	Electric Box Sub-Assy	1	
24	Main Board 1		
25	Terminal Board	ard 1	
26	Terminal Board	1	
27	Capacitor CBB61S	1	
28	Electric Box Cover 1		
29	Left Side Plate	1	



(3) FP-170ZD/B-K, FP-204ZD/B-K



No.	Name	Quantity
1	Front Grill	4
2	Top Cover	1
3	Guide Louver	2
4	Drainage Pipe Sub-assy	1
5	Display Board Assy	1
6	Water Tray Assy	1
7	Propeller Housing(Upper)	4
8	Roller Wheel	2
9	Centifugal Fan	4
10	Joint Slack	2
11	Fan Motor	1
12	Propeller Housing(Lower)	4
13	Clapboard Sub-Assy	1
14	Support Of Motor Bearing 2	
15	Bearing Holder Sub-assy 2	
16	Front Panel	1

No.	Name	Quantity
17	Surface-Cooler Assy	1
18	Rear Side Plate Sub-Assy	1
19	Seat Board Sub-Assy	1
20	Connection Sheet	1
21	Temperature Sensor	1
22	Temperature Sensor	1
23	Electric Box Assy	1
24	Electric Box Sub-Assy	1
25	Main Board	1
26	Terminal Board	1
27	Terminal Board	1
28	Capacitor	1
29	Electric Box Cover 1	
30	Left Side Plate	1

The above parameters are for reference only. The specific parameters shall be subject to the actual objects. If there is any change, no further notice will be given.

UNIT INSTALLATION

1 Precautions for engineering work

- (1) The unit should be installed in accordance with instructions covered in the user's manual and make sure enough maintenance space is reserved around the unit. The air inlet and outlet should be far away from obstacles, so that air flow can go through everywhere of the room. When the heat exchanging room is too small, it would lead to decreased capacity.
- (2) The unit should be installed where no smog, corrosive and inflammable gases are present, otherwise the unit would fail to run normally or its service life would be shortened.
- (3) Fit valves to entering and leaving water pipes and wrap units with a dust-proof cover.
- (4) The flexible connectors or the movable joints should be used for connection of the water inlet and outlet pipes. Moreover, the water filters should be installed at the water inlet pipe.
- (5) The condensate pipe should not be blocked with a grade of slope no less than 5%.
- (6) A filter should be installed at the return air inlet and cleaned periodically so as to not affect the heat exchanging efficiency.
- (7) For initial operation, open the exhaust valve at the return water pipe to expel air inside coils. Then, close it until water flows out.
- (8) The unit should be entirely maintained every 2~3 years. Water scale inside coils should be removed by chemical method so as to guarantee the heat exchanging performance.
- (9) The air outlet and the duct should be connected with the flexible connector and shall not bear the weight of valves, pipes and other devices.
- (10) Wiring arrangement should be performed in accordance with the safety standards for electric devices and local relative regulations. Special electric circuits should be used. When capacity of the electric circuits is poor or electric operation is improper, it would lead to electric shocks or fire hazards etc.
- (11) The earth leakage circuit breaker should be installed for each installation location. The unit should be grounded; otherwise it would lead to electric shocks.

Warning
Installation and commissioning work must be performed by professional personnel. Improper
installation would cause water leaks, electric shock and fire accidents.
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Moreover, it is necessary to prepare commonly accessible tools including pipe pliers, screw drivers, rubber pads, rubber hammers, scissors, spanners, level bars, measuring tape, angle square, glue guns, brushes, ladders, pulleys.

3 Installation

3.1 Installation conditions

- (1) There should be no direct sunlight.
- (2) The hanger, ceiling and the building structure should be capable of supporting the weight of the unit.
- (3) The drain pipe can be easily led out.
- (4) The inlet and outlet air flow will not be blocked.
- (5) There should be no inflammable and explosive substances.
- (6) There should be no corrosive gas, heavy dust, salt fog, smog or moisture.

3.2 Unit installation

3.2.1 Vertical mounted exposed type

Drill four holes on the wall accordance with the piture and the table below.



Unit: mm

Model	α	β
FP-22LM/D-K	555	
FP-34LM/D-K	555	
FP-51LM/D-K		
FP-68LM/D-K	710	
FP-85LM/D-K		200
FP-102LM/D-K		390
FP-119LM/D-K	1010	
FP-136LM/D-K		
FP-170LM/D-K	1400	
FP-204LM/D-K	1400	

Insert user-provided M10 expansion bolts into the holes on the wall and fix them as shown in the picture below.



Open the cover. Loosen three screws and lift the decorated panels (on left or right side) 1cm above and remove them in a horizontal way.



Let the suspension holes fit the expansion bolts so that the unit can be hung.

Regulate the unit position to slightly tilt the drain pipe and tighten bolts with nuts.

Use a level to indicate that the unit is flush with the ground.





3.2.2 Cassette type

Hanging on the ceiling

(1) Hole drilling and bolt installation

1) Firstly, place the cardboard template at the installation location and drill four holes as per the hole site at the cardboard template. The hole depth should be 60~70mm.



2) Put the M10 anchor bolt into the hole and then hammer the iron nail into the bolt. Length of the anchor bolt depends on the height of the room. The anchor bolts should be prepared by the user themselves.



- (2) Put the hoisting stand to the hanger bolt. Nuts and washers should be used at both the lower and upper ends of the hoisting stand so as to secure the locating board and prevent the washers from falling out.
- (3) The sizing of the ceiling opening depends on the template cardboard. The center of the ceiling opening is labeled at the template cardboard. Use three screws to fix the template cardboard to the unit and also use other screws to fix the corners of the drain channel.
- (4) Adjust the unit rightly to the installation location.
- (5) See if the unit is horizontal or not by checking the four corners one by one with a water level. The drain pump and float valve are built inside the unit. When the unit is inclined towards the opposite direction of the condensate flow, the float switch may fail to work normally and even lead to water drops.
- (6) Remove the locating plate for the washer and tighten the screw above it.





Installation of panels

Align the "PIPING SIDE" on the panel with the piping position of the main body.

- (1) Connect the panel to the unit body by joining the two connectors to the hangers at the back of the swing motors.
- (2) Join the other two connectors to the hangers of the unit body. (Note that the conductor of the swing motor should not get caught in the sealing material.)
- (3) Turn all 4 hexagon head screws located right beneath the connectors until the screws move about 15mm in depth. Then the panel is closer to the unit body.
- (4) Turn the panel as the arrows indicate to properly connect the rear panel to the ceiling.
- (5) Tighten the screws until the distance of the sealing material between the panel and the unit body is reduced to 5~8 mm.





If gap is still left between the ceiling and the panel after screwing the screws, readjust the height of the unit body.



No gap should be left between the ceiling and the panel.

Connect the joints for the conductors of swing motors (at two positions).



3.2.3 Wall mounted type

Clearance



- Installation of the rear panel
- (1) Always mount the rear panel horizontally. Due to the water tray of the unit has been adopted the both-way drainage design, the outlet of water tray should be adjusted slightly down when installing, that is to take the outlet of the water tray as the center of a circle, the included angle between the evaporator and level should be 0 or more, that is good for condensing water drainage.



- (2) Fix the rear panel on the wall with screws. (Where is pre-covered with plastic granula)
- (3) Be sure that the rear panel has been fixed firmly enough to withstand the weight of an adult of 60kg, further more, the weight should be evenly shared by each screw.

3.2.4 Floor-ceiling type

- Installation instructions
- (1) Use a cardboard to locate the positions of brackets. Then the cardboard can be removed.
- (2) Insert the expansion bolt into the hole and hammer at it.



(3) Dispatch the left and right panels.



- (4) Put the bolt inside the suspension hole and tighten the bolt to prevent the unit moving.
- (5) Install the left and right panels.
- (6) Regulate the unit position to slightly tilt condensate drain pipes to facilitate discharging.
- (7) Use a level to indicate that the unit is flush with the ground.



Clearance

Make sure that enough service space is preserved.

(1) Floor standing mounted type



(2) Ceiling mounted type

Unit: mm

Unit: mm



3.3 Installation of water pipes

- Threaded connection
- (1) Both the torque wrench and ordinary wrench should be used for installing and uninstalling the water pipes, as shown in the figure below.
- (2) The inlet and outlet pipes both are G3/4 threaded. Before connection, wrap the thread for 2-3 cycles with the Teflon tape for better sealing.
- (3) After the inlet and outlet pipes have been connected, start the water pump to check if they leak or not. Then, expel air inside the pipe system through the exhaust valve and insulate it properly as shown in the figure below.
- (4) Wrap the connectors with sponge and insulate the exhaust valve.



Inlet pipe

Pipe joint connecting

- (1) Align the center of the piping pipe with the relevant valve.
- (2) Place the nut, spring washer, washer, O-ring cross the pipe sequentially, and keep them tightly close to each other with a distance of 6-7mm from the O-ring to the pipe end.
- (3) Screw in the pipe nut by hand and then tighten the nut with spanner.
- (4) If supplied by the manufacturer, the connection pipe shall be installed in place so as to guarantee the reliable connection.



Firstly connect the connection pipe to the FCU pipe, then to the connection pipe; pay attention to the piping bending, do not damage the connection pipe; the joint nut couldn't tighten too much, otherwise it may cause leakage.



3.4 Installation of drain pipes

- Precautions
- (1) The drain pipe should be as short as possible, with at least an inclination degree of 1%~2%, so that the condensate can be drained out smoothly. If the inclination degree fails to meet this requirement, a raising pipe is required.
- (2) The drain hose should be sized equal or larger than the drain pipe.
- (3) The drain pipe should be installed in accordance with the figure below and also insulated properly. Incorrect installation and insulation would lead to generation of condensate or water drop which would damage the ceiling and decoration.



- (4) Insert one end of the drain pipe to the drain hole and tighten it with the drain hose and tiers. The drain hose cannot be connected to the drain hole with adhesive.
- (5) When the drain pipe is used for multiple sets of equipment, it should be placed 10mm lower than the drain outlet of each equipment. For this special purpose, the pipe with quite thick pipe wall should be used.
- Installation steps
- (1) The drain pipe should be straight and mounted lower than the dain outlet. No bends should be made.



- (2) Insert the drain hose to the water outlet and fix it with the clamp.
- (3) For better insulation, the sponge should be wrapped around the clamp.


- Precautions for the raising pipe
- (1) The height of the raising pipe should be less than 280mm.
- (2) The raising pipe should be at a right angle to the unit and keep a distance with the unit within 300mm.



Notes:

- (a) The inclination degree of the attached drain hose should be kept within 75mm.
- (b) Do not apply outer force to the drain pipe.



(c) When multiple drain pipes will join together, connect them as the figure below. The T-shaped joint should be sized properly.



3.5 Installation of water valves

Precautions:



- (1) See the figure above for installation of the water valve. Firstly, connect one end of the water pipe to the water inlet of the unit, and then connect the other end to water valve. During installation, both the torque wrench and ordinary wrench should be used. For the former, the torque should be less than 90N.m. Tighten connectors.
- (2) In order for better sealing effect, before connection they should be wrapped with Teflon tape.

- (3) After the connector, the water valve and the water pipes have been finished, you may start the water pump and see if they leak or not.
- (4) Insulate the water valve and the pipe with sponge.



(5) When the water pipe and water valve have been installed, connect the connection line of the valve

to the wiring board of the unit. See the wiring diagram of the unit for on-site wiring.

- (6) Check the wiring carefully and then start the water pump and unit to see if they work normally. Notices:
- (1) The water valve should be installed as the following statement; otherwise it would affect the normal





(2) There are direct pass and bypass for the water valve and they can be selected based on actual conditions. See the figure below for the working principle for the water valve.



Inlet pipe

(3) Pipe joints and electric valves are mounted by threaded connection. Tapes should be winded into the threads.

4 Electrical connection

4.1 Precautions

- (1) All electric wiring should be performed by the qualified technical in accordance with local standards, regulations and this manual.
- (2) The specialized electric circuit with rated voltage should be used for the power supply.
- (3) Do not pull the power lines by force.
- (4) The power lines should be sized sufficiently. The damaged power lines and connection lines should be replaced by specialized lines.
- (5) The unit should be connected to the specialized grounding device by the qualified servicemen. For the fixed lines, there should be the breaker and air switch with sufficient capacity. The air switch should be of the magnetic or electric trip-off functions so as for shortcutting and overloading protection.
- (6) The unit should be earthed reliably. The yellow-green line is the grounding line. Do not put it into other use, or cut it. The grounding line cannot be fixed with self-tapping screws; otherwise it would lead to electric shock. The grounding line cannot be connected to the running water line, the gas line, the drain line and where it is not approved.
- (7) User power should be soundly earthed rather then be connected to these positions including water pipes, gas lines, drain pipes and others proved unsecure by professionals.

4.2 Wiring steps

(1) Open the electric box and pull the power lines and connection lines of the electric water valve through the rubber rings to the terminal board. After connection, be sure to fix the power and water valve cables with clamps.

- (2) When matching the optional accessories, connect the signal line through the rubber ring to the terminal board of the controller. After connection, be sure to secure the cable with clamps.
- (3) When connecting the optional cable, power must be cut off first, and then power on after connection has been finished.
- (4) Be sure to perform wiring in accordacne with the wiring diagram at the unit.
- (5) After the test run is qualified, place the electrical box cover back.

4.3 External wiring diagram

The wiring diagram is for reference, and the actual wiring is subject to the diagram posted on the unit.

4.3.1 Vertical mounted exposed type



4.3.2 Cassette type (AC)

(1) FP-85XD/B-T, FP-102XD/B-T, FP-125XD/B-T, FP-140XD/B-T, FP-160XD/B-T, FP-180XD/B-T, FP-200XD/B-T, FP-85XD/B-T(E), FP-102XD/B-T(E), FP-125XD/B-T(E), FP-140XD/B-T(E), FP-160XD/B-T(E), FP-180XD/B-T(E) (electric specification: 50Hz/60Hz)



(2) FP-68XDT/B-K, FP-68XDT/B-K(E), FP-85XDT/B-K, FP-85XDT/B-K(E), FP-102XDT/B-K, FP-125XDT/B-K, FP-125XDT/B-K(E), FP-140XDT/B-K, FP-180XDT/B-K, FP-180XDT/B-K(E), FP-200XDT/B-K



(3) FP-51/68XD/A-K



Unit Installation

(4) FP-238XD/C-K



4.3.3 A series cassette type (DC)

(1) FPD-51XD/A-S, FPD-68XD/A-S



(2) FPD-85XD/A-S, FPD-102XD/A-S, FPD-119XD/A-S, FPD-136XD/A-S, FPD-170XD/A-S, FPD-204XD/A-S



(3) FPD-238XD/A-S



4.3.4 Wall-mounted type (DC)

(1) FPD-34BB4/A-K, FPD-51BB4/A-K, FPD-68BB4/A-K, FPD-85BB4/A-K, FPD-34BB6/A-K, FPD-51BB6/A-K, FPD-68BB6/A-K, FPD-85BB6/A-K



4.3.5 Wall-mounted type (AC)

(1) FP-34BA2/D-K(E), FP-51BA2/D-K(E), FP-68BA2/D-K(E), FP-85BA2/D-K(E), FP-34BA3/D-K(E), FP-51BA3/D-K(E), FP-68BA3/D-K(E), FP-68BA3/D-K(E), FP-68BA3/D-K(E), FP-68BA3/D-K(E), FP-68BA3/D-K, FP-68BA3/D-K, FP-68BA3/D-K, FP-68BA3/D-K, FP-51BA3/D-K, FP-51BA3/D-K, FP-68BA3/D-K, FP-68BA3/D-K, FP-68BA3/D-K, FP-68BA3/D-K, FP-68BA3/D-K, FP-68BA3/D-K, FP-68BA3/B-D, FP-68BA3/B-A, FP-68BA3/B-A, FP-68BA3/B-A, FP-68BA3/B-A, FP-68BA



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(2) FP-34BA3/B-K, FP-51BA3/B-K, FP-68BA3/B-K, FP-85BA3/B-K
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(3) FP-51BWA2/A-K(E)



(4) FP-85BWA2/A-K(E)



(5) FP-51BWA3/A-K(E), FP-85BWA3/A-K(E)



4.3.6 A series floor-ceiling type (DC)

(1) FPD-34ZD/A-S, FPD-51ZD/A-S, FPD-68ZD/A-S, FPD-85ZD/A-S, FPD-102ZD/A-S, FPD-136ZD/A-S, FPD-170ZD/A-S, FPD-204ZD/A-S



4.3.7 A series floor-ceiling type (AC)

(1) FP-34ZD/B-K, FP-51ZD/B-K, FP-68ZD/B-K, FP-85ZD/B-K, FP-102ZD/B-K, FP-136ZD/B-K, FP-170ZD/B-K, FP-204ZD/B-K



4.3.8 One-to-more Control



Up to 32 FCUs can be controlled at the same time by a wired controller.

Notes:

- (1) Refer to the circuit diagram for specific wiring.
- (2) One-to-more control requires a wired controller which is able to control all FCUs at the same time but cannot control a separate one alone.

4.3.9 Remote monitoring (RS485)

The connection method for remote monitoring is as follows. Up to 255 FUCs can be controlled at the same time. For specific connection method, please refer to the circuit diagram and relevant agreements.



4.3.10 WiFi

- ◆ A series wall-mounted type (DC)
- (1) Open the panel of indoor unit as show in the fig and unscrew the screw on the electric box cover.



NOTICE: Actual product may be different from above graphics, please refer to actual product.



(2) Open the electric box cover and you can see the WiFi connection wire. (The color of WiFi connection wire is the same as the color of connection port in WiFi module)



(3) Remove the wire clip,pull out the WiFi connection wire from the electric box and then connect it with the port in WiFi module.



NOTICE: the WiFi connection wire shall go through the wire groove.otherwise thelectric box cannot be closed.

(4) Place the WiFi module beside the electric box. After confirming the position, please fix the WiFi module with screws.

NOTICE: the position for placing WiFi module may be different for different models; actual position please refer to the actual situation.



- (5) Neaten the WiFi connection wire, close the electric box cover and then tighten the screws.
- (6) After closing the panel of indoor unit, the installation of WiFi module is done.
- A series cassette type (DC)
- FPD-51/68XD model

After the WiFi module connecting the wire from the electric box, the cable is routed from the wire clamp and then fixed at the position as shown in the below figure with screws, and then the cable tie is used to bind the module and other cables together as shown in below figure.



FPD-85/102/119/136/170/204XD model

After the WiFi module connecting the wire from the electric box, the cable is routed from the wire clamp and then fixed at the position as shown in the below figure with screws.



FPD-238XD model

After the WiFi module connecting the wires from the electric box, use the cable tie to bind the module and other cables together at the wire hole as shown in below figure. The excess cable should be neatly arranged and placed in the idle space inside the electric box.



◆ A series floor-ceiling type (DC)

The terminals of the WiFi Module passe through the wire hole and connect to the corresponding terminals inside the electric box. The wiring of the WiFi Module is the same as other cables. After arranging the cables, use cable ties to bind the module and other cables together. Excess cables should be tidied up and secured with cable ties along with other cables.



4.3.11 DIP setting

Function DIP setting



"1": it is used to determine whether to stop the fan when the ambient temperature reaches the set temperature point. When it is set to the "ON side", it means that the fan will be stopped when the ambient temperature reaches the set point; when it is set to the "OFF side", it means that the fan will not be stopped when the ambient temperature reaches the set point.

"2", "3" and "4: they are used to distinguish models of the units (do not dial operate it, otherwise the unit would be abnormal).

Note: the wired controller can also set whether to stop the fan when the ambient temperature reaches the set point. If this function has been activated by the wired controller, the DIP setting goes invalid but the setting of the wired controller works.

Address DIP setting (switching type)

Five-digit DIP setting: it is the address setting for one-to-more control function. Up to 32 settings are available, that is, 32 addresses.



Unit Installation



Note: One-to-more control function can control 1~32 units. When there are more than 2 units in control, each unit must be set to a different address, otherwise the unit will operate abnormally.

Address DIP setting (rotary type)



Up to 10 settings are available, that is, the arrow pointing to different numbers represents different addresses (a total of 10 numbers from 0 to 9).

Note: One-to-more control function can control 1~10 units. When there are more than 2 units in control, each unit must be set to a different address, otherwise the unit will operate abnormally.

5 Diagnostics

Error code	Error name	Equipment status	
FO	Return air temperature	It is in normal operation, but fails to detect the ambient	
FU	sensor error	temperature.	
F5	Wired controller temperature	It is in normal operation, but fails to detect the ambient	
10	sensor error	temperature.	
	Coils temperature sensor		
	error for two-pipe units	It is in normal operation, but fails to detect the coil	
F1	Cold water coils temperature	temperature	
	sensor error for four-pipe		
	units		
	Hot water coils temperature	It is in normal operation, but fails to detect the coil	
FE	sensor error for the four-pipe	temperature	
	units		
E0	Water pump error	It stops.	
E6	Communication error	It stops.	
E9	Water full protection	It stops,but the water pump starts or keeps in operation.	
E8	DC motor error	It stops.	
C5	Jumper error	It stops.	
HF	WIFI communication error	It is in normal operation, but fails to connect the WiFi.	

MAINTENANCE

1 Servicing

- (1) Power supply must be cut off before any maintenance.
- (2) Maintenance must be operated by qualified servicemen.

1.1 Vertical mounted exposed type

Step	Picture	Work instruction
(1) Detach the filter.		Pull up the filter.
(2) Clean the filter screen.		 Use the dust collector or water to clean the filter screen. When the filter screen is quite dirty, warm (less than 45°C) detergent solution can be used. Then, dry it in the shade. Notes: (a) Do not use the hot water higher than 45°C, otherwise the filter screen would be de-colored or deformed. (b) Do not bake it above the fire, otherwise the filter screen filter screen would catch fire or be deformed.

Step	Picture	Work instruction
(3)Take off decorated panels.	<image/>	 Open up the two display top covers. Take out the screws from the left, right and top of the unit. Lift up its decorated panels (on left or right side) and remove them in a horizon direction.
(4) Clean the filter screen.		 Use the dust collector or water to clean the filter screen. When the filter screen is quite dirty, warm (less than 45°C) detergent solution can be used. Then, dry it in the shade. Notes: (a) Do not use the hot water higher than 45°C, otherwise the filter screen would be de-colored or deformed. (b) Do not bake it above the fire, otherwise the filter screen filter screen would catch fire or be deformed.
(5)Take off the display bottom cover (right).		Take out the screws from the display bottom cover.

Step	Picture	Work instruction
(6) Take off the grille.		Unscrew the grille and move it towards right and then up.
(7) Detach the front panel.		Take out the screws from the front panel.
(8) Detach the volute casing.		Press clasps hard to take out the volute casing.

Step	Picture	Work instruction
(9) Detach fan blades.		Use an inner hexagonal spanner to unscrew fan blades from the motor.
(10) Detach wires.		 Unscrew the electric box cover. Take out connecting tabs between terminal blocks and capacitors. Cut off fixing clamps to take away motor wires. Take the screws out of the motor to remove bar clasps and loops. Unscrew the earth wire to take away the motor.

1.2 Cassette type (AC)

Step	Picture	Work instruction
(1) Take the screws out of the grille.	Screw Buckle	Remove the screw and pull the buckle to open the panel.
(2) Remove the filter screen.		Pull the filter screen down wards to make it away from the buckles and take out the filter screen。

Step	Picture	Work instruction
(3) Clean the filter screen.		Use the dust collector or water to clean the filter screen. When the filter screen is quite dirty, warm (less than 45°C) detergent solution can be used. Then, dry it in the shade. Notes: (a) Do not use the hot water higher than 45°C, otherwise the filter screen would be de-colored or deformed. (b) Do not bake it above the fire, otherwise the filter screen would catch fire or be deformed.
(4) Detach the grille of the front panel.	Left buckle Right buckle	Push the left and right buckles on the grille of the front panel toward the center and meanwhile pull it upward until it forms a 45°C angle, after that pull the grille backward.
(5) Detach the front panel.	Electric box cover I Electric box cover II Fixed and the second	 Disconnect the power cord of the fan motor and the plug of the limit switch. Open the cover II of the electric box and disconnect the six-cord plug, then remove covers on four corners away, after that, loosen the screws to the right position and turn the front panel counter clockwise and lastly pull it out upward.
(6) Detach the drain pan.	Screw	Unscrew cover I of the electrical box and then open the cover.

Step	Picture	Work instruction
(7) Detach the electrical box.	Forew	Take out two screws from the electric box and then disconnect each wiring terminals, after that take the electric box out upward.
(8) Detach the flow- guide loop.	Flow guide loop	Unscrew the flow-guide loop and then turn it counter clockwise.
(9) Detach the drain pan.	Screw	Unscrew drain pan and take it out upward.
(10) Detach the fan blade.	Nut with washer Fan blade	Unscrew the fan blade and then take it out upward.

Step	Picture	Work instruction
(11) Detach the evaporator	Mounting plate Screw Baffle Connection board Clamp Screw Fastener Fastener Evaporator	 Unscrew the mounting plate and take it out. Unscrew the baffle of the pipe outlet, and then press it downward to pull out the buckles on both side, after that, take the baffle away. Unscrew the clamps from the connection board of the evaporator, disconnect the earth lead, and then take the power cord of the motor, electric heater and earth lead out through the wire- cross hole. Unscrew the fasteners and remove them away. Take the evaporator out upward.
(12) Detach the motor	Motor Retaining plate	Unscrew the retaining plate and the motor to take the motor out.
(13) Detach the water pump and the drain pipe	Screw Drain plate Screw	 Take out four screws from the water pump. Disconnect the water pipe of the pump. Take the mounting bracket away Unscrew the water pipe to take it away.

1.3 A series cassette type (DC)

Step	Picture	Work instruction
(1) Take the screws out of the grille.	Screw Buckle	Remove the screw and pull the buckle to open the panel.
(2) Remove the filter screen.		Pull the filter screen down wards to make it away from the buckles and take out the filter screen。
(3) Clean the filter screen.		Use the dust collector or water to clean the filter screen. When the filter screen is quite dirty, warm (less than 45°C) detergent solution can be used. Then, dry it in the shade. Notes: (a) Do not use the hot water higher than 45°C, otherwise the filter screen would be de-colored or deformed. (b) Do not bake it above the fire, otherwise the filter screen would catch fire or be deformed.

Step	Picture	Work instruction
(4) Remove the front panel.	Loosen the screws	 Turn off the power supply of indoor unit. Push the 4 corner plates in the directions shown by the arrows. Loosen the screws and remove the front panel.
(5) Remove the cover of electric box and the clamp of power cord.		• Remove the motor wire and water pump of the electric box.

Maintenance

Step	Picture	Work instruction
(6) Remove the water tray.		• Loosen the screws in the 4 corners and then remove the water tray.
(7) Remove the fan.	Bolts	 Use a screwdriver to remove the clamping band of motor. Then remove the fan.

Maintenance

Step	Picture	Work instruction
(8) Remove motor.	<image/>	 Use a screwdriver to unscrew the 4 screws of motor. Then remove the motor.
(9) Replace and install the motor.	Tighten the torews	 Remove the motor from motor support and then replace with a new motor. Tighten the 4 screws of motor with a screwdriver.

Step	Picture	Work instruction
(10) Install the fan.	Tighten the both Tighten the screws	 Direct the hole of fan to the motor shaft and then mount on the fan. Tighten the clamping band of motor with a wrench.
(11) Install the water tray and electric box.	Uncerne	 Direct the 4 corners of water tray to the 4 corners of the unit and then press them. Use a screwdriver to tighten the screws in the 4 corners. Connect the power cord and water pump wire. Place back the cover of electric box and the clamp of power cord. Then tighten the screws with a screwdriver.

1.4 A series wall mounted type (DC)


	Lise the dust collector
(2) Clean the filter screen.	 or water to clean the filter screen. When the filter screen is quite dirty, warm (less than 45°C) detergent solution can be used. Then, dry it in the shade. Notes: (a) Do not use the hot water higher than 45°C, otherwise the filter screen would be de- colored or deformed. (b) Do not bake it above the fire, otherwise the filter screen would catch fire

Maintenance

Step	Picture	Work instruction
(3) Remove the inner panel.	Screws and the screw cover	
	The light panel and screws	 Open the screw cover and loosen the set screws. Unscrew the light panel and the inner panel.
	Clasps	
(4) Remove the mainboard.	Electric box and wires	 Take the cover off the electric box. Cut the wire clamps. And pull out all terminals to remove the mainboard.

Step	Picture	Work instruction
(5) Remove the electric box.		Unscrew the electric box and pull it in the direction of the arrow.
(6) Remove the cooling coil.		Unscrew the cooling coil and take it off.
(7) Remove the motor and fans.		 Unscrew plates and clamps that fix motors to take them apart. Unscrew the axial sleeve and then pull up the motor and fan.
(8) Remove the motor of the swing louver.		Take out the set screws from the motor.

Step	Picture	Work instruction
(9) Remove the swing louver.	Clasps	Take off the clasp in the middle and slightly bend the swing louver to take out the other clasps on both sides of the louver.

1.5 A series floor-ceiling type (DC)/B series floor-ceiling type type (AC)

Step	Picture	Work instruction
(1) Remove filters.		 Twist off the 2 hooks of the grill and the screws of the hooks. Open the grill and remove 2 lower clamps. Then remove the grill.
(2) Clean the filter screen.		 Use the dust collector or water to clean the filter screen. When the filter screen is quite dirty, warm (less than 45°C) detergent solution can be used. Then, dry it in the shade. Notes: (a) Do not use the hot water higher than 45°C, otherwise the filter screen would be de- colored or deformed. (b) Do not bake it above the fire, otherwise the filter screen would catch fire or be deformed.

Step	Picture	Work instruction
(3) Remove the left and right panels.		• Use a screwdriver to loosen the screws, as shown in the picture. Then pull the right and left panels upward(Lines in the picture indicate the positions of screws)
(4) Remove the electric box.		• Unscrew 34 screws as shown in the left picture and then remove the electric box.
(5) Remove the air guide louver assembly.		Remove the air guide louver from its supporting assembly. Then take off the connectors from the swing motor (As shown in the picture, the lines indicate the supporting assembly).
(6) Remove the water tray.		Remove the water tray.

Step	Picture	Work instruction
(7) Remove the evaporator assembly.		• Twist off the 6 screws of the evaporator, 3 screws of the plate board of water releasing flume, and 2 screws of the water tray. Then remove the evaporator.
(8) Remove the display panel and fan assembly.		•First remove the display panel, next the bracket and then the swing motor mounting plate.
(9) Remove the volutes.	Loosen the screws	•Press the retaining ring at the joint of front and rear volutes. Then pull up the front volute. Then loosen the screws of the rear volute. Lift up the retaining ring of the rear volute and take it off. (As shown in the picture, the lines indicate the screws on both sides of the volutes).
(10) Remove the fan.	Loosen the screws	•Loosen the 2 screws of the coupler. Take out the shaft and axial flow fan. Loosen the screws of axial flow fan and remove the axial flow fan.
(11) Remove the bearing fixed plate.	Bracket	●Twist off the screws and nuts of bracket. Then remove the bracket.

Step	Picture	Work instruction
(12) Remove the motor.	Securing clip Loosen the screws	•Loosen the 2 screws of the motor securing clip. Remove the motor securing clip and its assembly.



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