

## 4 Specification

Model			FP-34WM-D	FP-51WM-D	FP-68WM-D	FP-85WM-D
Code			EM51700090	EM51700100	EM51700110	EM51700120
Air flow volume	High	CFM	235	300	400	483
		m <sup>3</sup> /h	400	510	680	820
	Medium	CFM	172	232	291	362
		m <sup>3</sup> /h	292	395	495	615
	Low	CFM	147	155	194	241
		m <sup>3</sup> /h	250	264	330	410
Capacity	Cooling	W	2000	2800	4000	5170
	Heating	W	3510	4850	6500	8100
Power system	Type	V-Ph-Hz	208-230V~ 60Hz	208-230V~ 60Hz	208-230V~ 60Hz	208-230V~ 60Hz
	Input	W	47	49	69	81
Exterior static pressure		Pa	0	0	0	0
Water system	Water flow volume	m <sup>3</sup> /h	0.5	0.57	0.74	0.89
	Pressure drop	kPa	10	12	18	30
Coil	Type	-	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa
Motor	Type	-	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor
	Capacitor	μF	1	1	1.5	2.5
Sound pressure level	Sound pressure level	dB(A)	41	41	46	49
Connection pipe size	Water inlet & outlet	inch	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)
	Condensing water drain	inch	3/4(outer groove)	3/4(outer groove)	3/4(outer groove)	3/4(outer groove)
Outline dimension (W×D×H)		mm	840x695x238	840x695x238	840x695x238	840x695x238
Package dimension (W×D×H)		mm	960x830x330	960x830x330	960x830x330	960x830x330
Net weight		kg	26	26	27	27
Gross weight		kg	33	33	34	34
Loading quantity	20'GP		112	112	112	112
	40'GP		224	224	224	224
	40'HQ		267	267	267	267
Wireless remote controller			YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)

Model			FP-102WM-D	FP-136WM-D	FP-170WM-D	FP-204WM-D
Code			EM51700130	EM51700140	EM51700150	EM51700160
Air flow volume	High	CFM	600	700	1000	1200
		m <sup>3</sup> /h	1020	1190	1700	2040
	Medium	CFM	450	525	750	926
		m <sup>3</sup> /h	765	892	1276	1575
	Low	CFM	300	350	500	618
		m <sup>3</sup> /h	510	595	850	1051
Capacity	Cooling	W	5680	7050	9000	9700
	Heating	W	9200	10600	14500	15900
Power system	Type	V-Ph-Hz	208-230V~ 60Hz	208-230V~ 60Hz	208-230V~ 60Hz	208-230V~ 60Hz
	Input	W	99	103	165	215
Exterior static pressure		Pa	0	0	0	0
Water system	Water flow volume	m <sup>3</sup> /h	0.93	1.15	1.55	1.66
	Pressure drop	kPa	50	55	55	55
Coil	Type	-	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa
Motor	Type	-	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor
	Capacitor	μF	3	3	5	6
Sound pressure level	Sound pressure level	dB(A)	51	51	48	50
Connection pipe size	Water inlet & outlet	inch	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)
	Condensing water drain	inch	3/4(outer groove)	3/4(outer groove)	3/4(outer groove)	3/4(outer groove)
Outline dimension (W×D×H)		mm	1300x600x188	1300x600x188	1590x695x238	1590x695x238
Package dimension (W×D×H)		mm	1414x724x248	1414x724x248	1714x830x330	1714x830x330
Net weight		kg	31.5	32.5	48.5	48.5
Gross weight		kg	36.5	37.5	57	57
Loading quantity	20'GP		108	108	58	58
	40'GP		220	220	111	111
	40'HQ		244	244	117	117
Wireless remote controller			YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)

**Note:**

The water working temperature is from 7°C (44.6°F) to 60°C (140°F).

The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:

(1) Cooling efficiency: air 27°C(80.6°F) DB, 19.5°C(67.1°F) WB, water temperature in 7°C(44.6°F) water out 12°C(53.6°F).

(2) Heating efficiency: air 21°C (69.8°F) DB, Water temperature: 60°C (140°F).

The operating water pressure of the models above is no more than 0.25MPa.

The airflow volume is tested when the ESP is 0Pa.

Model			FP-34ZD-K	FP-51ZD-K	FP-68ZD-K	FP-85ZD-K
Code			EM56000100	EM56000110	EM56000130	EM51700120
Air flow volume	High	CFM	235	300	400	424
		m <sup>3</sup> /h	400	510	680	720
	Medium	CFM	172	232	265	362
		m <sup>3</sup> /h	292	395	450	615
	Low	CFM	147	155	253	241
		m <sup>3</sup> /h	250	264	430	410
Capacity	Cooling	W	2000	2800	3600	4200
	Heating	W	5000	7200	8500	9500
Power system	Type	V-Ph-Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz
	Input	W	36	58	72	80
Exterior static pressure		Pa	0	0	0	0
Water system	Water flow volume	L/s	0.125	0.14	0.16	0.20
	Pressure drop	kPa	16.5	5	10	20
Coil	Type		Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa
Motor	Type		Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor
	Capacitor	μF	1	1	1.5	3.0
Sound pressure level	Sound pressure level	dB(A)	37	38	45	47
Connection pipe size	Water inlet & outlet	inch	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)
	Condensing water drain	inch	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)
Outline dimension (W×D×H)		mm	840x695x238	840x695x238	840x695x238	840x695x238
Package dimension (W×D×H)		mm	960x830x330	960x830x330	960x830x330	960x830x330
Net weight		kg	26	26	27	27
Gross weight		kg	33	33	34	34
Loading quantity	20'GP		112	112	112	112
	40'GP		224	224	224	224
	40'HQ		267	267	267	267
Wireless remote controller			YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)

Model			FP-102ZD-K	FP-136ZD-K	FP-170ZD-K	FP-204ZD-K
Code			EM56000140	EM56000150	EM56000160	EM56000170
Air flow volume	High	CFM	600	647	1059	1201
		m <sup>3</sup> /h	1020	1100	1800	2040
	Medium	CFM	450	518	751	927
		m <sup>3</sup> /h	765	880	1276	1575
	Low	CFM	300	324	500	619
		m <sup>3</sup> /h	510	550	850	1051
Capacity	Cooling	W	5400	6350	8900	9900
	Heating	W	11500	13700	19000	21000
Power system	Type	V-Ph-Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz
	Input	W	86	78	150	200
Exterior static pressure		Pa	0	0	0	0
Water system	Water flow volume	L/s	0.27	0.32	0.40	0.44
	Pressure drop	kPa	36	38	52	55
Coil	Type		Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa
Motor	Type		Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor
	Capacitor	μF	3.0	3.0	5.0	10.0
Sound pressure level	Sound pressure level	dB(A)	49	48	50	55
Connection pipe size	Water inlet & outlet	inch	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)
	Condensing water drain	inch	3/4(outer groove)	3/4(outer groove)	3/4(outer groove)	3/4(outer groove)
Outline dimension (W×D×H)		mm	1300x600x188	1300x600x188	1590x695x238	1590x695x238
Package dimension (W×D×H)		mm	1414x724x248	1414x724x248	1714x830x330	1714x830x330
Net weight		kg	31.5	32.5	48.5	48.5
Gross weight		kg	36.5	37.5	57	57
Loading quantity	20'GP		108	108	58	58
	40'GP		220	220	111	111
	40'HQ		244	244	117	117
Wireless remote controller			YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)

Model			FP-34ZD-K(E)	FP-51ZD-K(E)	FP-68ZD-K(E)	FP-85ZD-K(E)
Code			EM56000190	EM56000200	EM56000210	EM56000220
Air flow volume	High	CFM	235	300	400	406
		m <sup>3</sup> /h	400	510	680	690
	Medium	CFM	176	235	324	335
		m <sup>3</sup> /h	300	400	550	570
	Low	CFM	124	182	265	285
		m <sup>3</sup> /h	210	310	450	485
Capacity	Cooling	W	1900	2800	3500	3600
	Heating	W	2400	3400	4100	4200
Power system	Type	V-Ph-Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz
	Input	W	46	65	76	84
Exterior static pressure		Pa	0	0	0	0
Water system	Water flow volume	L/s	0.09	0.13	0.17	0.17
	Pressure drop	kPa	20	20	32	16
Coil	Type		Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa
Motor	Type		Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor
	Capacitor	μF	1	1	1.5	3.0
Sound pressure level	Sound pressure level	dB(A)	37	38	45	47
Connection pipe size	Water inlet & outlet	inch	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)
	Condensing water drain	inch	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)
Outline dimension (W×D×H)		mm	840x695x238	840x695x238	840x695x238	840x695x238
Package dimension (W×D×H)		mm	960x830x330	960x830x330	960x830x330	960x830x330
Net weight		kg	26	26	27	27
Gross weight		kg	33	33	34	34
Loading quantity		20'GP	112	112	112	112
		40'GP	224	224	224	224
		40'HQ	267	267	267	267
Wireless remote controller			YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)

Model		FP-102ZD-K ( E )	FP-136ZD-K ( E )	FP-170ZD-K ( E )	FP-204ZD-K ( E )	
Code		EM56000230	EM56000240	EM56000250	EM56000260	
Air flow volume	High	CFM	535	606	1059	1141
		m <sup>3</sup> /h	910	1030	1800	1940
	Medium	CFM	445	502	741	882
		m <sup>3</sup> /h	756	854	1260	1500
	Low	CFM	353	412	500	618
		m <sup>3</sup> /h	600	700	850	1050
Capacity	Cooling	W	5200	6350	8900	9900
	Heating	W	6000	6700	10800	12200
Power system	Type	V-Ph-Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz
	Input	W	95	96	152	200
Exterior static pressure		Pa	0	0	0	0
Water system	Water flow volume	L/s	0.25	0.30	0.43	0.47
	Pressure drop	kPa	80	99	115	100
Coil	Type		Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa
Motor	Type		Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor	Isolation B Capacitor startup three-speed Motor
	Capacitor	μF	3.0	3.0	5.0	10.0
Sound pressure level	Sound pressure level	dB(A)	49	48	50	55
Connection pipe size	Water inlet & outlet	inch	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)	3/4(inner groove)
	Condensing water drain	inch	3/4(outer groove)	3/4(outer groove)	3/4(outer groove)	3/4(outer groove)
Outline dimension (W×D×H)		mm	1300x600x188	1300x600x188	1590x695x238	1590x695x238
Package dimension (W×D×H)		mm	1414x724x248	1414x724x248	1714x830x330	1714x830x330
Net weight		kg	31.5	32.5	48.5	48.5
Gross weight		kg	36.5	37.5	57	57
Loading quantity	20'GP		108	108	58	58
	40'GP		220	220	111	111
	40'HQ		244	244	117	117
Wireless remote controller			YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)

**Note:**

The water working temperature is from 7°C (44.6°F) to 60°C (140°F).

The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:

(1) Cooling efficiency: air 27°C(80.6°F) DB, 19°C(66.2°F) WB, water temperature in 7°C(44.6°F) water out 12°C(53.6°F).

(2) Heating efficiency: air 20°C (68°F) DB, water temperature in 60°C(140°F) water out 70°C(158°F)

The operating water pressure of the models above is no more than 0.25MPa.

The airflow volume is tested when the ESP is 0Pa.