

Midea 50Hz AC Fan Coil Unit 2-Pipe Floor-standing Series Technical Service Manual

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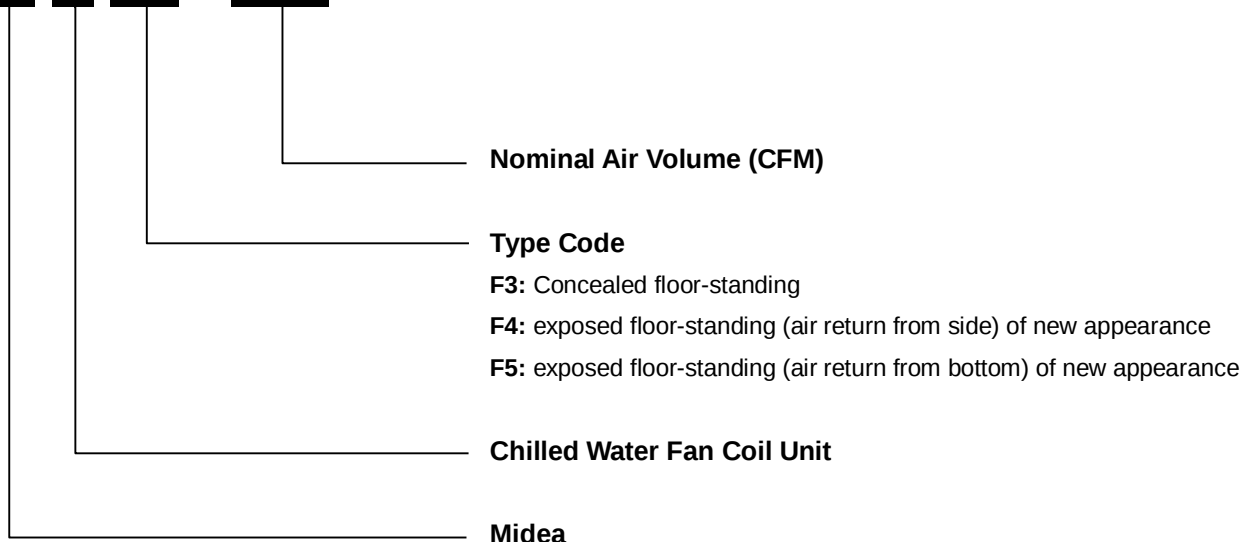
1. Introduction

Fan coil unit is a kind of compound device which assemble fan and surface-type coil heating-exchanger together. Fan coil with fresh air supply system is a main type of center air-conditioner system, so it is an important component of AC devices. Fan coil has horizontal type, vertical type, etc. A cooling (heating) supply system usually consists of fan coil terminals and chilled water system (heated water system).

Midea® commercial AC fan coil is designed and manufactured on the base of advanced technology, and utilize qualified galvanized iron as material. Due to its supper-thin design, it has such advantages: beautiful outlook, space saving, easy installation, etc. And the most obvious advantage is that it can decrease the outlet air Temp-difference as low as possible to make room more comfortable, as well as don't decrease cooling capacity output. For the large air flow volume design, it can increase room ventilation frequency, supply more flesh air, and balance room temperature distribution. Benefiting from adoption of advanced material and technology, it can effectively decrease the running noise and keep running smoothly. With the advantages above, it can be widely applied in market, hospital, office building, hotel airport, etc..

2. Nomenclature

M K F3 - 150



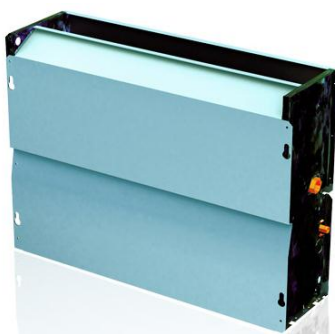
3. Product Schedule

Model	Air volume (CFM)	External static pressure	Power supply	Auxiliary Electrical Heater
MKF3-150	150	12Pa	220~240V-1Ph-50Hz	Without
MKF3-250	250			
MKF3-300	300			
MKF3-400	400			
MKF3-450	450			
MKF3-500	500			
MKF3-600	600			
MKF3-800	800			
MKF3-900	900			
MKF4-150	150	0Pa	220~240V-1Ph-50Hz	Without
MKF4-250	250			
MKF4-300	300			
MKF4-400	400			
MKF4-450	450			

MKF4-500	500			
MKF4-600	600			
MKF4-800	800			
MKF4-900	900			
MKF5-150	150	0Pa	220~240V-1Ph-50Hz	Without
MKF5-250	250			
MKF5-300	300			
MKF5-400	400			
MKF5-450	450			
MKF5-500	500			
MKF5-600	600			
MKF5-800	800			
MKF5-900	900			

4. External Appearance

MKF3



MKF4

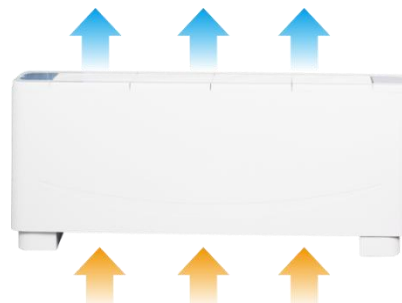


MKF5



5. Feature

- Flexible for installation, designed for horizontal/vertical, concealed/cabinet application.
- Ultra-thin body, streamlined appearance.
- Air return form the side or below for increased choice flexibility.



- Pipe connection from left or right can be selected (in factory).

6. Specifications

Model F3(4, 5)-			150	250	300
Air Volume	Hi	m³/h	255	425	510
		CFM	150	250	300
	Med	m³/h	215	360	430
		CFM	125	210	250
	Low	m³/h	190	320	380
		CFM	110	190	220
External static pressure		Pa	F3 models: 12; F4/F5 models: 0.		
Cooling capacity		W	1,150	1,870	2,530
Heating capacity		W	2,540	4,170	5,640
Power input		W	27	29	40
Noise (Hi/Med/Low)		dB(A)	32/29/26	35/32/30	37/34/32
Water flow		L/min	3.3	5.4	7.3
Water pressure drop		kPa	18.3	10.1	14.2
Fan motor	Type	\	Low noise 3-speed fan motor		
	Model	\	YDK18-6A	YDK18-6A	YSK20-4A
	Quantity	\	1	1	1
Fan	Type	\	Centrifugal, forward-curved Blades		
	Quantity	\	1	1	2
Coil	Diameter	mm	Φ9.52		
	Max. working pressure	MPa	1.6		
	Row	\	3	3	2
	Circuit	\	2	2	2
Indoor unit F3	Net Dimension (W×H×D)	mm	550×545×212	550×545×212	750×545×212
	Net Weight	kg	17	17	20
	Packing Size (W×H×D)	mm	639×639×305	639×639×305	839×639×305
	Gross Weight	kg	19	19	23.5
Indoor unit F4(5)	Net Dimension (W×H×D)	mm	800×572×225	800×572×225	1000×572×225
	Net Weight	kg	22.5(22.5)	22.5(22.5)	26(26)
	Packing Size (W×H×D)	mm	889×683×312	889×683×312	1089×683×312
	Gross Weight	kg	26.5(26.5)	26.5(26.5)	31(31)
Pipe connection	Water-inlet pipe	inch	G3/4"		
	Water-outlet pipe	inch	G3/4"		
	Drain pipe	mm	ODΦ16		

Note:

1. The data is the performance in high speed with relevant static pressure.
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB, 19°C WB.
Heating Conditions: Entering Water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
3. Noise is tested in full-anechoic test room.

Specifications

Model F3(4, 5)-			400	450	500
Air Volume	Hi	m³/h	680	765	850
		CFM	400	450	500
	Med	m³/h	580	650	720
		CFM	340	380	420
	Low	m³/h	510	570	640
		CFM	300	335	375
External static pressure		Pa	F3 models: 12; F4/F5 models: 0.		
Cooling capacity		W	3,270	3,970	4,850
Heating capacity		W	7,220	8,850	10,280
Power input		W	46	39	49
Noise (Hi/Med/Low)		dB(A)	39/36/34	41/38/36	43/40/38
Water flow		L/min	9.4	11.4	13.9
Water pressure drop		kPa	9.5	10.3	24.6
Fan motor	Type	\	Low noise 3-speed fan motor		
	Model	\	YSK20-4A	YSK20-6	YSK20-6
	Quantity	\	1	1	1
Fan	Type	\	Centrifugal, forward-curved Blades		
	Quantity	\	2	2	2
Coil	Diameter	mm	Φ9.52		
	Max. working pressure	MPa	1.6		
	Row	\	2	3	3
	Circuit	\	2	3	3
Indoor unit F3	Net Dimension (W×H×D)	mm	750×545×212	950×545×212	950×545×212
	Net Weight	kg	20	25	25
	Packing Size (W×H×D)	mm	839×639×305	1039×639×305	1039×639×305
	Gross Weight	kg	23.5	29	29
Indoor unit F4(5)	Net Dimension (W×H×D)	mm	1000×572×225	1200×572×225	1200×572×225
	Net Weight	kg	26(26)	32.5(32.5)	32.5(35)
	Packing Size (W×H×D)	mm	1089×683×312	1289×683×312	1289×683×312
	Gross Weight	kg	31(31)	38(38)	38(40)
Pipe connection	Water-inlet pipe	inch	G3/4"		
	Water-outlet pipe	inch	G3/4"		
	Drain pipe	mm	ODΦ16		

Note:

1. The data is the performance in high speed with relevant static pressure.
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB, 19°C WB.
Heating Conditions: Entering Water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
3. Noise is tested in full-anechoic test room.

Specifications

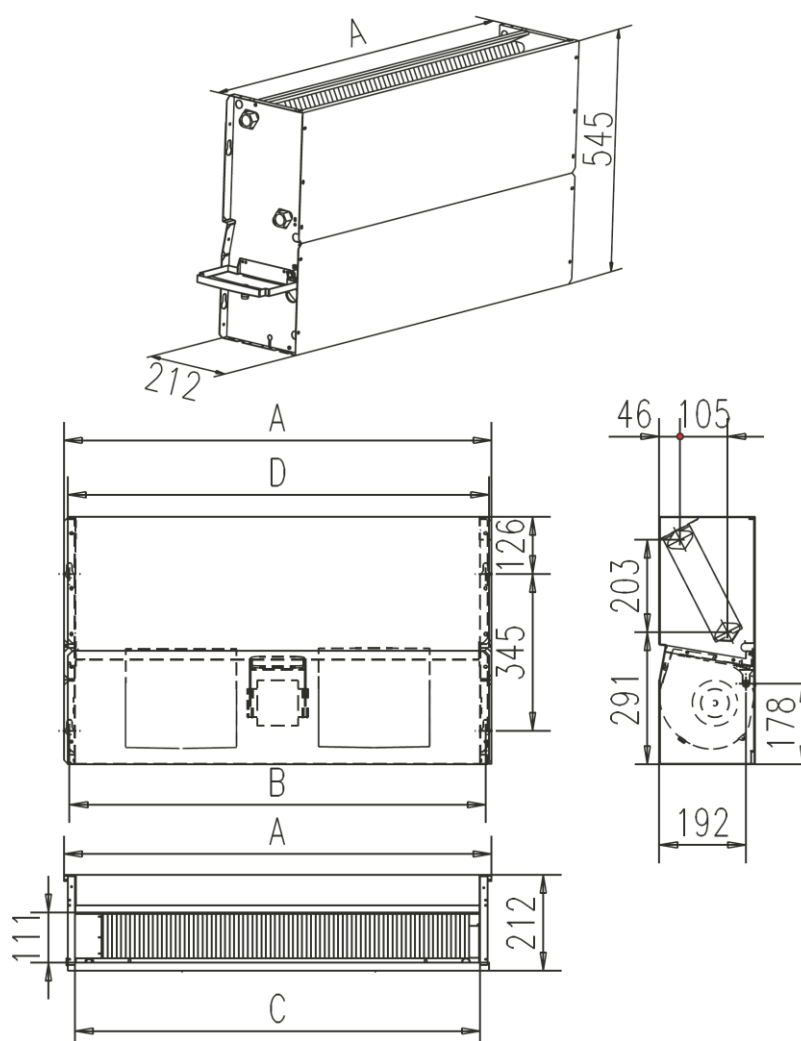
Model F3(4, 5)-			600	800	900
Air Volume	Hi	m³/h	1020	1360	1530
		CFM	600	800	900
	Med	m³/h	870	1160	1300
		CFM	510	680	760
	Low	m³/h	765	1020	1150
		CFM	450	600	675
External static pressure		Pa	F3 models: 12; F4/F5 models: 0.		
Cooling capacity		W	5,640	6,520	7,850
Heating capacity		W	12,240	15,350	18,200
Power input		W	63	88	137
Noise (Hi/Med/Low)		dB(A)	44/41/39	46/43/40	48/45/42
Water flow		L/min	16.2	18.7	22.5
Water pressure drop		kPa	11.4	9.5	12.1
Fan motor	Type	\	Low noise 3-speed fan motor		
	Model	\	YSK28-4D	YSK28-4E	YSK74-4E
	Quantity	\	1	1	1
Fan	Type	\	Centrifugal, forward-curved Blades		
	Quantity	\	3	3	3
Coil	Diameter	mm	Φ9.52		
	Max. working pressure	MPa	1.6		
	Row	\	2	2	2
	Circuit	\	4	4	4
Indoor unit F3	Net Dimension (W×H×D)	mm	1250×545×212	1250×545×212	1250×545×212
	Net Weight	kg	32	32	32
	Packing Size (W×H×D)	mm	1339×639×305	1339×639×305	1339×639×305
	Gross Weight	kg	36	36	36
Indoor unit F4(5)	Net Dimension (W×H×D)	mm	1500×572×225	1500×572×225	1500×572×225
	Net Weight	kg	39(36.6)	39(39)	39(39)
	Packing Size (W×H×D)	mm	1589×683×312	1589×683×312	1589×683×312
	Gross Weight	kg	45(42.6)	45(45)	45(45)
Pipe connection	Water-inlet pipe	inch	G3/4"		
	Water-outlet pipe	inch	G3/4"		
	Drain pipe	mm	ODΦ16		

Note:

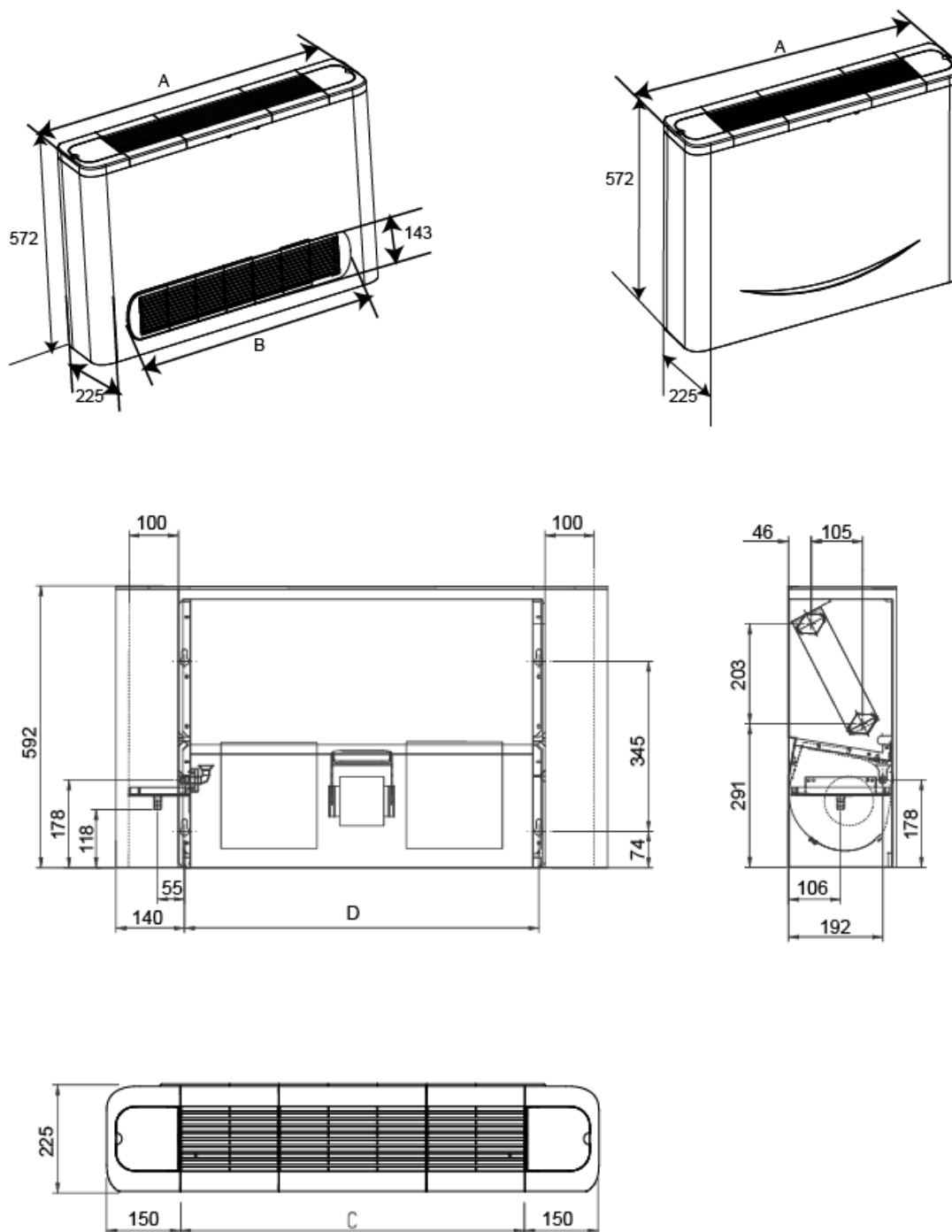
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Heating Conditions: Entering Water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
3. Noise is tested in full-anechoic test room.

7. Dimension

MKF3 type

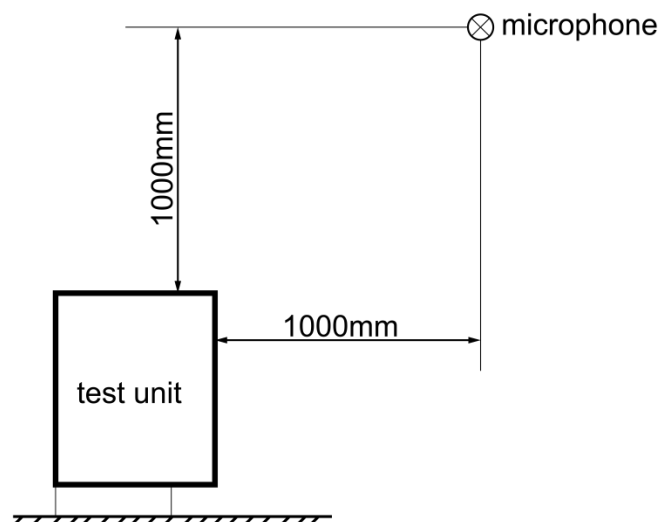


MKF3	150	250	300	400	450	500	600	800	900
A (mm)	550	550	750	750	950	950	1250	1250	1250
B (mm)	526	526	726	726	926	926	1226	1226	1226
C (mm)	500	500	700	700	900	900	1200	1200	1200
D (mm)	532	532	732	732	932	932	1232	1232	1232

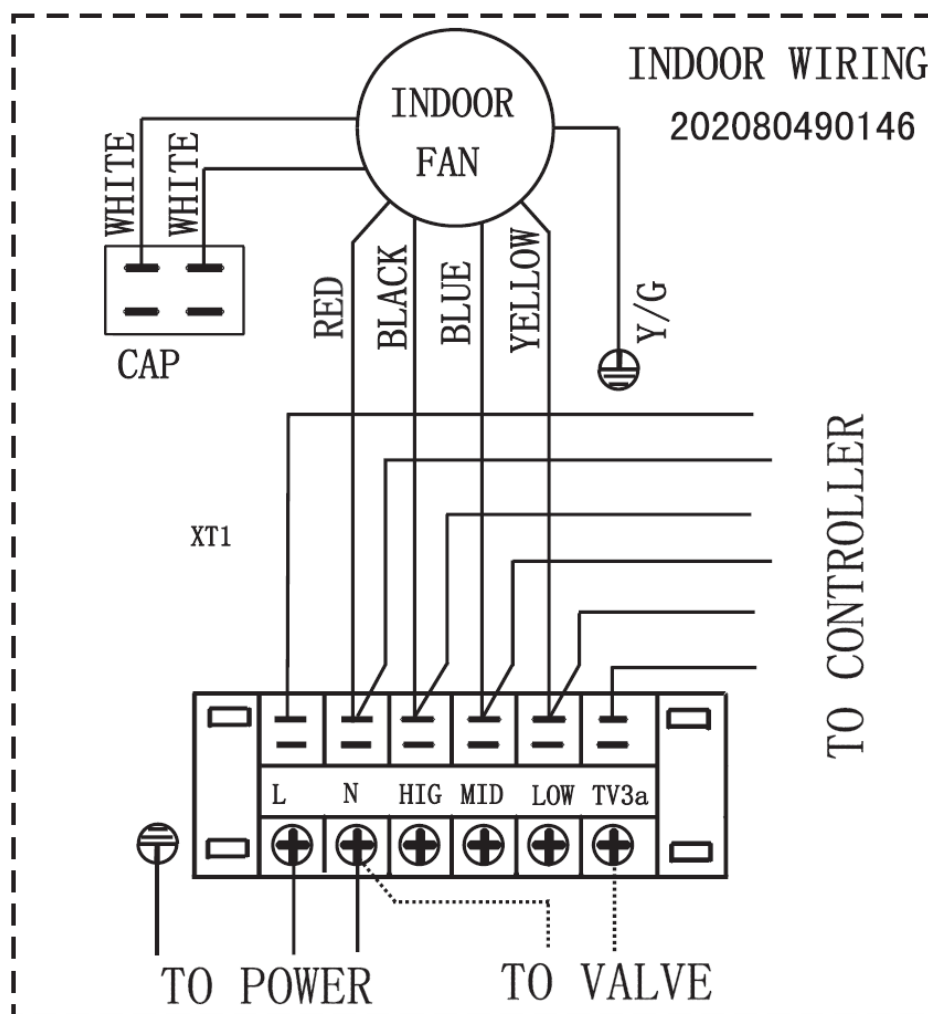
MKF4, MKF5 type:

MKF4(F5)	150	250	300	400	450	500	600	800	900
A (mm)	800	800	1000	1000	1200	1200	1500	1500	1500
B (mm)	584	584	784	784	984	984	1284	1284	1284
C (mm)	500	500	700	700	900	900	1200	1200	1200
D (mm)	526	526	726	726	926	926	1226	1226	1226

8. Sound Levels



9. Wiring Diagram



10. Capacity Tables

Cooling Capacity

EWT: Enter Water Temp. (°C)

Δt: Temperature Difference (°C)

DB: Dry Bulb Temp. (°C)

WB: Wet Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

WF: Water Flow (m³/h)

WPD: Water Pressure Drop (kPa)

MKF3(4,5)-150																					
EWT	Δt	Air inlet condition																			
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21			
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
5	3	1.47	0.88	0.42	82.5	1.34	0.97	0.39	69.5	1.44	0.92	0.41	79.2	1.52	0.88	0.44	88.6	1.6	0.84	0.46	98.8
	4	1.41	0.86	0.3	42.9	1.29	0.94	0.28	36.2	1.39	0.89	0.3	41.5	1.47	0.86	0.32	46.5	1.54	0.81	0.33	51.3
	5	1.35	0.83	0.23	25.1	1.23	0.92	0.21	21.0	1.32	0.87	0.23	24.1	1.41	0.82	0.24	27.5	1.48	1.28	0.25	30.3
	6	1.29	0.8	0.18	15.9	1.17	0.89	0.17	13.2	1.26	0.84	0.18	15.3	1.35	0.79	0.19	17.5	1.42	0.75	0.2	19.3
	7	1.22	0.77	0.15	10.6	1.11	0.87	0.14	8.7	1.2	0.81	0.15	10.1	1.28	0.77	0.16	11.7	1.36	0.72	0.17	13.0
6	3	1.38	0.85	0.4	73.5	1.26	0.93	0.36	61.0	1.35	0.88	0.39	70.1	1.44	0.84	0.41	79.6	1.52	0.8	0.44	89.0
	4	1.33	0.82	0.29	38.1	1.2	0.9	0.26	31.3	1.3	0.85	0.28	36.3	1.38	0.82	0.3	41.3	1.46	0.78	0.31	46.1
	5	1.26	0.79	0.22	22.1	1.15	0.88	0.2	18.3	1.24	0.83	0.21	21.2	1.32	0.78	0.23	24.1	1.4	0.75	0.24	27.2
	6	1.2	0.77	0.17	13.9	1.09	0.85	0.16	11.4	1.17	0.8	0.17	13.3	1.26	0.75	0.18	15.3	1.33	0.71	0.19	17.1
	7	1.14	0.73	0.14	9.2	1.02	0.83	0.13	7.4	1.11	0.78	0.14	8.7	1.19	0.73	0.15	10.0	1.27	0.68	0.16	11.4
7	3	1.29	0.81	0.37	64.1	1.17	0.9	0.34	52.8	1.26	0.85	0.36	61.3	1.36	0.8	0.39	70.7	1.43	0.76	0.41	78.8
	4	1.24	0.78	0.27	33.1	1.11	0.88	0.24	26.7	1.2	0.82	0.26	31.4	1.29	0.78	0.28	36.2	1.38	0.74	0.3	40.9
	5	1.17	0.75	0.2	19.1	1.05	0.85	0.18	15.4	1.15	0.79	0.2	18.3	1.23	0.74	0.21	21.0	1.31	0.71	0.23	23.7
	6	1.11	0.73	0.16	11.9	0.99	0.82	0.14	9.5	1.09	0.76	0.16	11.5	1.18	0.72	0.17	13.3	1.25	0.68	0.18	15.0
	7	1.05	0.7	0.13	7.8	0.93	0.79	0.11	6.1	1.02	0.74	0.13	7.3	1.11	0.69	0.14	8.7	1.18	0.65	0.15	9.9
8	3	1.2	0.77	0.34	55.6	1.07	0.87	0.31	44.3	1.17	0.81	0.34	53.1	1.26	0.76	0.36	61.5	1.35	0.72	0.39	69.6
	4	1.15	0.75	0.25	28.6	1.02	0.84	0.22	22.5	1.12	0.79	0.24	26.9	1.2	0.74	0.26	31.3	1.28	0.7	0.28	35.5
	5	1.09	0.71	0.19	16.5	0.96	0.81	0.16	12.7	1.06	0.76	0.18	15.5	1.15	0.71	0.2	18.3	1.23	0.67	0.21	20.8
	6	1.02	0.69	0.15	10.0	0.9	0.79	0.13	7.7	1	0.73	0.14	9.6	1.09	0.68	0.16	11.4	1.16	0.64	0.17	13.0
	7	0.96	0.66	0.12	6.5	0.83	0.76	0.1	4.9	0.93	0.71	0.11	6.1	1.02	0.65	0.13	7.3	1.09	0.61	0.13	8.4
9	3	1.12	0.74	0.32	48.1	0.98	0.83	0.28	37.2	1.09	0.77	0.31	45.4	1.18	0.73	0.34	53.5	1.26	0.69	0.36	60.7
	4	1.06	0.71	0.23	24.1	0.93	0.81	0.2	18.5	1.02	0.75	0.22	22.7	1.11	0.71	0.24	26.7	1.19	0.66	0.26	30.7
	5	1	0.68	0.17	13.8	0.86	0.79	0.15	10.2	0.97	0.73	0.17	13.0	1.05	0.68	0.18	15.4	1.13	0.63	0.19	17.8
	6	0.93	0.66	0.13	8.4	0.79	0.77	0.11	6.0	0.9	0.7	0.13	7.8	1	0.64	0.14	9.5	1.07	0.6	0.15	11.1
	7	0.86	0.62	0.11	5.3	0.74	/	0.09	3.9	0.83	0.67	0.1	4.9	0.92	0.62	0.11	6.0	1	0.58	0.12	7.1
10	3	1.03	0.7	0.29	40.4	0.88	0.8	0.25	30.0	0.98	0.75	0.28	37.2	1.08	0.7	0.31	45.1	1.17	0.65	0.33	52.5
	4	0.96	0.67	0.21	20.0	0.82	0.78	0.18	14.4	0.93	0.72	0.2	18.7	1.02	0.67	0.22	22.7	1.1	0.63	0.24	26.2
	5	0.9	0.65	0.15	11.2	0.77	/	0.13	8.1	0.86	0.7	0.15	10.3	0.96	0.64	0.16	12.7	1.04	0.6	0.18	15.0
	6	0.84	0.62	0.12	6.8	0.73	/	0.1	5.1	0.8	0.67	0.11	6.2	0.9	0.61	0.13	7.7	0.97	0.57	0.14	9.1
	7	0.77	0.6	0.09	4.1	0.68	/	0.08	3.3	0.73	0.65	0.09	3.8	0.82	0.59	0.1	4.8	0.91	0.54	0.11	5.9
11	3	0.93	0.67	0.27	33.0	0.78	/	0.23	23.7	0.89	0.71	0.26	30.6	0.99	0.66	0.28	37.4	1.07	0.62	0.31	44.3
	4	0.87	0.64	0.19	16.3	0.75	/	0.16	12.1	0.83	0.68	0.18	15.0	0.93	0.63	0.2	18.6	1.01	0.59	0.22	22.2
	5	0.8	0.62	0.14	8.9	0.71	/	0.12	7.0	0.77	0.67	0.13	8.1	0.86	0.61	0.15	10.3	0.95	0.56	0.16	12.4
	6	0.73	0.59	0.1	5.1	0.67	/	0.1	4.3	0.7	0.64	0.1	4.7	0.8	0.59	0.11	6.1	0.88	0.53	0.13	7.4
	7	0.65	0.57	0.08	3.0	0.63	/	0.08	2.8	0.63	/	0.08	2.8	0.72	0.56	0.09	3.7	0.81	0.5	0.1	4.6
12	3	0.83	0.64	0.24	26.4	0.73	/	0.21	20.3	0.79	0.69	0.23	23.9	0.89	0.63	0.26	30.6	0.98	0.58	0.28	36.6
	4	0.77	0.61	0.16	12.7	0.69	/	0.15	10.4	0.73	0.66	0.16	11.5	0.83	0.6	0.18	14.9	0.92	0.56	0.2	18.2
	5	0.7	0.59	0.12	6.8	0.66	/	0.11	6.1	0.66	0.64	0.11	6.1	0.77	0.58	0.13	8.1	0.85	0.53	0.15	10.0
	6	0.62	0.57	0.09	3.7	0.62	/	0.09	3.6	0.62	0.6	0.09	3.6	0.69	0.56	0.1	4.6	0.78	0.5	0.11	5.9
	7	0.55	/	0.07	2.1	0.57	/	0.07	2.3	0.57	/	0.07	2.3	0.61	0.53	0.07	2.6	0.71	0.47	0.09	3.5
13	3	0.72	0.61	0.21	20.1	0.67	/	0.19	17.3	0.68	0.66	0.2	17.9	0.79	0.6	0.23	23.8	0.88	0.55	0.25	29.7
	4	0.66	0.58	0.14	9.5	0.64	/	0.14	8.8	0.64	0.63	0.14	8.8	0.72	0.58	0.16	11.3	0.82	0.52	0.18	14.4
	5	0.59	0.58	0.1	4.8	0.6	/	0.1	4.9	0.6	/	0.1	4.9	0.66	0.55	0.11	6.0	0.75	0.5	0.13	7.8
	6	0.54	/	0.08	2.8	0.56	/	0.08	3.0	0.56	/	0.08	3.0	0.58	0.53	0.08	3.3	0.68	0.47	0.1	4.4
	7	0.49	/	0.06	1.7	0.51	/	0.06	1.8	0.51	/	0.06	1.8	0.51	0.5	0.06	1.8	0.59	0.44	0.07	2.5

Cooling capacity

MKF3(4,5)-250																						
EWT	Δt	Air inlet condition																				
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21				
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
5	3	2.38	1.44	0.68	45.6	2.19	1.58	0.63	38.3	2.33	1.5	0.67	43.7	2.47	1.43	0.71	48.9	2.61	1.37	0.75	54.5	
	4	2.29	1.39	0.49	23.7	2.1	1.53	0.45	20.0	2.25	1.45	0.48	22.9	2.39	1.39	0.51	25.7	2.5	1.32	0.54	28.3	
	5	2.19	1.34	0.38	13.9	2	1.49	0.34	11.6	2.15	1.41	0.37	13.3	2.29	1.34	0.39	15.2	2.41	2.08	0.41	16.7	
	6	2.09	1.31	0.3	8.8	1.91	1.44	0.27	7.3	2.05	1.36	0.29	8.5	2.2	1.29	0.31	9.7	2.3	1.23	0.33	10.6	
	7	1.99	1.24	0.24	5.8	1.8	1.41	0.22	4.8	1.95	1.31	0.24	5.6	2.09	1.24	0.26	6.4	2.2	1.18	0.27	7.2	
6	3	2.25	1.38	0.64	40.5	2.05	1.52	0.59	33.7	2.2	1.44	0.63	38.7	2.34	1.37	0.67	43.9	2.47	1.31	0.71	49.1	
	4	2.16	1.33	0.46	21.0	1.96	1.47	0.42	17.3	2.11	1.39	0.45	20.0	2.25	1.33	0.48	22.8	2.37	1.26	0.51	25.5	
	5	2.05	1.28	0.35	12.2	1.87	1.43	0.32	10.1	2.01	1.35	0.35	11.7	2.15	1.27	0.37	13.3	2.28	1.21	0.39	15.0	
	6	1.96	1.24	0.28	7.7	1.77	1.38	0.25	6.3	1.91	1.3	0.27	7.3	2.05	1.22	0.29	8.5	2.17	1.16	0.31	9.4	
	7	1.85	1.19	0.23	5.1	1.66	1.35	0.2	4.1	1.81	1.26	0.22	4.8	1.94	1.18	0.24	5.5	2.07	1.11	0.25	6.3	
7	3	2.1	1.31	0.6	35.4	1.91	1.46	0.55	29.1	2.05	1.38	0.59	33.8	2.2	1.31	0.63	39.0	2.33	1.24	0.67	43.5	
	4	2.01	1.27	0.43	18.3	1.81	1.43	0.39	14.7	1.96	1.33	0.42	17.3	2.1	1.27	0.45	20.0	2.24	1.2	0.48	22.6	
	5	1.91	1.22	0.33	10.5	1.71	1.38	0.29	8.5	1.87	1.29	0.32	10.1	2	1.21	0.34	11.6	2.13	1.15	0.37	13.1	
	6	1.81	1.18	0.26	6.6	1.61	1.34	0.23	5.2	1.78	1.24	0.25	6.3	1.91	1.16	0.27	7.3	2.03	1.1	0.29	8.3	
	7	1.71	1.13	0.21	4.3	1.51	1.29	0.18	3.3	1.66	1.2	0.2	4.1	1.8	1.13	0.22	4.8	1.92	1.06	0.24	5.5	
8	3	1.96	1.25	0.56	30.7	1.75	1.41	0.5	24.5	1.91	1.31	0.55	29.3	2.06	1.24	0.59	33.9	2.19	1.17	0.63	38.4	
	4	1.87	1.21	0.4	15.8	1.66	1.36	0.36	12.4	1.81	1.28	0.39	14.8	1.96	1.2	0.42	17.3	2.08	1.14	0.45	19.6	
	5	1.78	1.16	0.31	9.1	1.56	1.32	0.27	7.0	1.72	1.23	0.3	8.6	1.87	1.16	0.32	10.1	1.99	1.09	0.34	11.5	
	6	1.66	1.13	0.24	5.5	1.46	1.29	0.21	4.3	1.63	1.19	0.23	5.3	1.77	1.11	0.25	6.3	1.89	1.04	0.27	7.2	
	7	1.56	1.07	0.19	3.6	1.35	1.23	0.17	2.7	1.51	1.15	0.19	3.4	1.66	1.06	0.2	4.1	1.77	1	0.22	4.6	
9	3	1.82	1.2	0.52	26.5	1.6	1.35	0.46	20.5	1.77	1.26	0.51	25.1	1.92	1.18	0.55	29.5	2.04	1.12	0.59	33.5	
	4	1.72	1.15	0.37	13.3	1.51	1.31	0.32	10.2	1.66	1.22	0.36	12.5	1.81	1.15	0.39	14.8	1.94	1.08	0.42	16.9	
	5	1.62	1.11	0.28	7.6	1.39	1.28	0.24	5.6	1.57	1.18	0.27	7.2	1.71	1.1	0.29	8.5	1.84	1.03	0.32	9.8	
	6	1.52	1.07	0.22	4.6	1.29	1.24	0.18	3.3	1.46	1.14	0.21	4.3	1.62	1.05	0.23	5.3	1.75	0.98	0.25	6.1	
	7	1.4	1.01	0.17	2.9	1.2	/	0.15	2.1	1.35	1.09	0.17	2.7	1.5	1.01	0.18	3.3	1.62	0.94	0.2	3.9	
10	3	1.67	1.14	0.48	22.3	1.44	1.3	0.41	16.5	1.6	1.21	0.46	20.5	1.76	1.13	0.51	24.9	1.9	1.06	0.54	29.0	
	4	1.57	1.09	0.34	11.1	1.33	1.28	0.29	8.0	1.51	1.17	0.32	10.3	1.66	1.09	0.36	12.5	1.79	1.02	0.38	14.4	
	5	1.46	1.06	0.25	6.2	1.24	/	0.21	4.5	1.4	1.13	0.24	5.7	1.56	1.04	0.27	7.0	1.69	0.97	0.29	8.3	
	6	1.36	1.01	0.2	3.7	1.18	/	0.17	2.8	1.3	1.09	0.19	3.4	1.46	0.99	0.21	4.3	1.58	0.92	0.23	5.0	
	7	1.24	0.97	0.15	2.3	1.11	/	0.14	1.8	1.18	1.05	0.15	2.1	1.34	0.96	0.16	2.6	1.48	0.88	0.18	3.2	
11	3	1.51	1.08	0.43	18.2	1.28	/	0.37	13.1	1.45	1.15	0.42	16.9	1.6	1.08	0.46	20.6	1.75	1	0.5	24.5	
	4	1.41	1.05	0.3	9.0	1.21	/	0.26	6.7	1.35	1.11	0.29	8.3	1.51	1.03	0.32	10.3	1.65	0.96	0.35	12.3	
	5	1.3	1.01	0.22	4.9	1.15	/	0.2	3.9	1.24	1.08	0.21	4.5	1.4	0.98	0.24	5.7	1.54	0.91	0.27	6.9	
	6	1.19	0.97	0.17	2.8	1.08	/	0.16	2.4	1.14	1.04	0.16	2.6	1.3	0.95	0.19	3.4	1.43	0.87	0.2	4.1	
	7	1.06	0.93	0.13	1.7	1.02	/	0.13	1.5	1.02	/	0.13	1.5	1.17	0.9	0.14	2.0	1.32	0.82	0.16	2.6	
12	3	1.35	1.03	0.39	14.6	1.18	/	0.34	11.2	1.28	1.11	0.37	13.2	1.45	1.02	0.42	16.9	1.59	0.95	0.45	20.2	
	4	1.25	1	0.27	7.0	1.13	/	0.24	5.7	1.18	1.08	0.25	6.3	1.35	0.98	0.29	8.2	1.49	0.9	0.32	10.1	
	5	1.14	0.96	0.2	3.8	1.08	/	0.19	3.4	1.08	1.04	0.19	3.4	1.24	0.94	0.21	4.5	1.38	0.86	0.24	5.5	
	6	1.01	0.93	0.15	2.1	1	/	0.14	2.0	1	0.98	0.14	2.0	1.13	0.9	0.16	2.6	1.27	0.81	0.18	3.2	
	7	0.9	/	0.11	1.2	0.93	/	0.11	1.3	0.92	/	0.11	1.3	0.98	0.86	0.12	1.4	1.15	0.77	0.14	2.0	
13	3	1.18	0.99	0.34	11.1	1.09	/	0.31	9.5	1.11	1.07	0.32	9.9	1.28	0.97	0.37	13.1	1.43	0.89	0.41	16.4	
	4	1.08	0.95	0.23	5.2	1.04	/	0.22	4.9	1.04	1.02	0.22	4.9	1.18	0.94	0.25	6.3	1.33	0.85	0.29	8.0	
	5	0.96	0.94	0.17	2.7	0.97	/	0.17	2.7	0.97	/	0.17	2.7	1.07	0.9	0.18	3.3	1.22	0.81	0.21	4.3	
	6	0.87	/	0.13	1.5	0.9	/	0.13	1.6	0.9	/	0.13	1.6	0.95	0.87	0.14	1.8	1.1	0.77	0.16	2.4	
	7	0.8	/	0.1	0.9	0.83	/	0.1	1.0	0.83	/	0.1	1.0	0.83	0.81	0.1	1.0	0.97	0.72	0.12	1.4	

Cooling capacity

MKF3(4,5)-300																						
EWT	Δt	Air inlet condition																				
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21				
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
5	3	3.22	1.94	0.92	64.0	2.96	2.14	0.85	53.9	3.16	2.03	0.91	61.5	3.34	1.94	0.96	68.8	3.53	1.85	1.01	76.6	
	4	3.1	1.88	0.67	33.3	2.85	2.07	0.61	28.1	3.05	1.97	0.66	32.2	3.23	1.88	0.69	36.1	3.39	1.79	0.73	39.8	
	5	2.96	1.82	0.51	19.5	2.71	2.02	0.47	16.3	2.91	1.91	0.5	18.7	3.1	1.81	0.53	21.3	3.26	2.81	0.56	23.5	
	6	2.83	1.77	0.41	12.4	2.58	1.95	0.37	10.3	2.78	1.84	0.4	11.9	2.97	1.75	0.43	13.6	3.11	1.66	0.45	14.9	
	7	2.69	1.68	0.33	8.2	2.44	1.91	0.3	6.7	2.63	1.78	0.32	7.8	2.83	1.68	0.35	9.0	2.98	1.59	0.37	10.1	
6	3	3.04	1.87	0.87	57.0	2.77	2.06	0.79	47.3	2.97	1.95	0.85	54.4	3.17	1.85	0.91	61.7	3.35	1.77	0.96	69.1	
	4	2.92	1.8	0.63	29.6	2.65	1.99	0.57	24.3	2.85	1.88	0.61	28.2	3.04	1.8	0.65	32.1	3.21	1.71	0.69	35.8	
	5	2.78	1.73	0.48	17.1	2.53	1.93	0.43	14.2	2.72	1.83	0.47	16.5	2.9	1.72	0.5	18.7	3.08	1.64	0.53	21.1	
	6	2.65	1.68	0.38	10.8	2.39	1.87	0.34	8.8	2.58	1.76	0.37	10.3	2.78	1.65	0.4	11.9	2.93	1.57	0.42	13.2	
	7	2.51	1.61	0.31	7.1	2.25	1.82	0.28	5.7	2.45	1.71	0.3	6.8	2.62	1.6	0.32	7.8	2.8	1.5	0.34	8.9	
7	3	2.84	1.77	0.81	49.7	2.58	1.98	0.74	40.9	2.78	1.87	0.8	47.6	2.98	1.77	0.86	54.8	3.15	1.68	0.9	61.2	
	4	2.72	1.71	0.59	25.7	2.44	1.93	0.53	20.7	2.65	1.8	0.57	24.4	2.85	1.71	0.61	28.1	3.03	1.62	0.65	31.8	
	5	2.58	1.65	0.44	14.8	2.32	1.87	0.4	11.9	2.53	1.74	0.44	14.2	2.71	1.64	0.47	16.3	2.88	1.56	0.5	18.4	
	6	2.45	1.6	0.35	9.2	2.18	1.81	0.31	7.3	2.41	1.68	0.34	8.9	2.59	1.57	0.37	10.3	2.75	1.49	0.39	11.6	
	7	2.32	1.53	0.28	6.1	2.04	1.75	0.25	4.7	2.24	1.63	0.28	5.7	2.44	1.52	0.3	6.7	2.6	1.43	0.32	7.7	
8	3	2.65	1.7	0.76	43.2	2.36	1.91	0.68	34.4	2.58	1.78	0.74	41.2	2.78	1.68	0.8	47.7	2.96	1.59	0.85	54.0	
	4	2.53	1.64	0.54	22.2	2.25	1.84	0.48	17.5	2.45	1.74	0.53	20.9	2.65	1.62	0.57	24.3	2.82	1.54	0.61	27.5	
	5	2.4	1.57	0.41	12.8	2.11	1.79	0.36	9.8	2.33	1.66	0.4	12.0	2.53	1.57	0.43	14.2	2.7	1.48	0.46	16.2	
	6	2.25	1.52	0.32	7.8	1.97	1.74	0.28	6.0	2.2	1.61	0.32	7.5	2.39	1.5	0.34	8.8	2.56	1.41	0.37	10.1	
	7	2.11	1.45	0.26	5.1	1.83	1.67	0.22	3.8	2.05	1.55	0.25	4.8	2.24	1.44	0.28	5.7	2.4	1.35	0.29	6.5	
9	3	2.46	1.62	0.71	37.3	2.16	1.83	0.62	28.9	2.39	1.7	0.69	35.2	2.6	1.6	0.74	41.5	2.76	1.51	0.79	47.1	
	4	2.32	1.56	0.5	18.7	2.04	1.78	0.44	14.4	2.25	1.65	0.48	17.6	2.45	1.55	0.53	20.7	2.62	1.46	0.56	23.8	
	5	2.2	1.5	0.38	10.7	1.88	1.74	0.32	7.9	2.13	1.6	0.37	10.1	2.32	1.49	0.4	11.9	2.49	1.39	0.43	13.8	
	6	2.05	1.44	0.29	6.5	1.74	1.68	0.25	4.7	1.98	1.54	0.28	6.0	2.19	1.42	0.31	7.4	2.36	1.33	0.34	8.6	
	7	1.9	1.37	0.23	4.1	1.62	/	0.2	3.0	1.83	1.47	0.23	3.8	2.03	1.37	0.25	4.7	2.2	1.27	0.27	5.5	
10	3	2.26	1.54	0.65	31.4	1.94	1.76	0.56	23.3	2.16	1.64	0.62	28.9	2.38	1.53	0.68	35.0	2.57	1.43	0.74	40.7	
	4	2.12	1.48	0.46	15.5	1.8	1.73	0.39	11.2	2.04	1.58	0.44	14.5	2.25	1.47	0.48	17.6	2.42	1.38	0.52	20.3	
	5	1.98	1.43	0.34	8.7	1.68	/	0.29	6.3	1.89	1.53	0.33	8.0	2.11	1.41	0.36	9.9	2.29	1.31	0.39	11.7	
	6	1.84	1.37	0.26	5.2	1.6	/	0.23	3.9	1.76	1.47	0.25	4.8	1.97	1.34	0.28	6.0	2.14	1.25	0.31	7.1	
	7	1.68	1.31	0.21	3.2	1.5	/	0.18	2.6	1.6	1.42	0.2	2.9	1.81	1.3	0.22	3.7	2	1.19	0.25	4.6	
11	3	2.04	1.47	0.58	25.6	1.73	/	0.5	18.4	1.96	1.56	0.56	23.8	2.17	1.46	0.62	29.0	2.36	1.35	0.68	34.4	
	4	1.91	1.42	0.41	12.6	1.64	/	0.35	9.4	1.83	1.5	0.39	11.6	2.04	1.39	0.44	14.4	2.23	1.3	0.48	17.3	
	5	1.76	1.36	0.3	6.9	1.56	/	0.27	5.4	1.68	1.47	0.29	6.3	1.9	1.33	0.33	8.0	2.08	1.24	0.36	9.6	
	6	1.61	1.31	0.23	4.0	1.46	/	0.21	3.3	1.54	1.4	0.22	3.7	1.75	1.29	0.25	4.7	1.93	1.18	0.28	5.8	
	7	1.43	1.26	0.18	2.3	1.38	/	0.17	2.2	1.38	/	0.17	2.2	1.59	1.22	0.2	2.9	1.78	1.11	0.22	3.6	
12	3	1.82	1.4	0.52	20.5	1.6	/	0.46	15.8	1.73	1.51	0.5	18.5	1.96	1.38	0.56	23.8	2.15	1.28	0.62	28.4	
	4	1.69	1.35	0.36	9.9	1.52	/	0.33	8.0	1.6	1.46	0.34	8.9	1.83	1.33	0.39	11.6	2.02	1.22	0.43	14.1	
	5	1.54	1.3	0.26	5.3	1.46	/	0.25	4.7	1.46	1.41	0.25	4.7	1.68	1.28	0.29	6.3	1.87	1.17	0.32	7.8	
	6	1.37	1.26	0.2	2.9	1.35	/	0.19	2.8	1.35	1.33	0.19	2.8	1.53	1.22	0.22	3.6	1.72	1.1	0.25	4.5	
	7	1.21	/	0.15	1.7	1.26	/	0.15	1.8	1.25	/	0.15	1.8	1.33	1.16	0.16	2.0	1.56	1.04	0.19	2.8	
13	3	1.59	1.34	0.46	15.6	1.47	/	0.42	13.4	1.5	1.45	0.43	13.9	1.73	1.31	0.5	18.5	1.93	1.21	0.55	23.1	
	4	1.46	1.29	0.31	7.4	1.41	/	0.3	6.9	1.41	1.38	0.3	6.9	1.59	1.28	0.34	8.8	1.8	1.15	0.39	11.2	
	5	1.3	1.27	0.22	3.8	1.31	/	0.23	3.8	1.31	/	0.23	3.8	1.45	1.22	0.25	4.7	1.65	1.1	0.28	6.1	
	6	1.18	/	0.17	2.2	1.22	/	0.18	2.3	1.22	/	0.18	2.3	1.28	1.17	0.18	2.5	1.49	1.04	0.21	3.4	
	7	1.08	/	0.13	1.3	1.12	/	0.14	1.4	1.12	/	0.14	1.4	1.12	1.1	0.14	1.4	1.31	0.98	0.16	1.9	

Cooling capacity

MKF3(4,5)-400																						
EWT	Δt	Air inlet condition																				
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21				
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
5	3	4.17	2.51	1.19	42.8	3.82	2.76	1.1	36.1	4.08	2.62	1.17	41.1	4.32	2.51	1.24	46.0	4.56	2.39	1.31	51.3	
	4	4.01	2.43	0.86	22.3	3.68	2.68	0.79	18.8	3.94	2.54	0.85	21.6	4.17	2.43	0.9	24.2	4.38	2.31	0.94	26.6	
	5	3.83	2.35	0.66	13.0	3.51	2.61	0.6	10.9	3.76	2.46	0.65	12.5	4.01	2.35	0.69	14.3	4.21	3.64	0.72	15.7	
	6	3.66	2.28	0.52	8.3	3.34	2.52	0.48	6.9	3.59	2.38	0.51	8.0	3.84	2.26	0.55	9.1	4.02	2.14	0.58	10.0	
	7	3.48	2.18	0.43	5.5	3.15	2.46	0.39	4.5	3.4	2.3	0.42	5.3	3.65	2.18	0.45	6.1	3.86	2.06	0.47	6.7	
6	3	3.93	2.41	1.13	38.1	3.58	2.66	1.03	31.7	3.84	2.52	1.1	36.4	4.09	2.4	1.17	41.3	4.33	2.28	1.24	46.2	
	4	3.77	2.33	0.81	19.8	3.42	2.57	0.74	16.3	3.69	2.43	0.79	18.9	3.93	2.32	0.85	21.5	4.15	2.21	0.89	23.9	
	5	3.59	2.24	0.62	11.5	3.27	2.5	0.56	9.5	3.52	2.36	0.61	11.0	3.75	2.22	0.65	12.5	3.99	2.12	0.69	14.1	
	6	3.42	2.18	0.49	7.2	3.1	2.42	0.44	5.9	3.34	2.27	0.48	6.9	3.59	2.14	0.51	8.0	3.79	2.03	0.54	8.9	
	7	3.24	2.08	0.4	4.8	2.9	2.35	0.36	3.8	3.16	2.21	0.39	4.5	3.39	2.07	0.42	5.2	3.62	1.94	0.44	5.9	
7	3	3.67	2.29	1.05	33.3	3.33	2.55	0.95	27.4	3.59	2.41	1.03	31.8	3.86	2.29	1.11	36.7	4.07	2.17	1.17	40.9	
	4	3.52	2.21	0.76	17.2	3.16	2.5	0.68	13.8	3.43	2.33	0.74	16.3	3.68	2.21	0.79	18.8	3.91	2.1	0.84	21.2	
	5	3.34	2.13	0.57	9.9	3	2.42	0.52	8.0	3.27	2.25	0.56	9.5	3.51	2.11	0.6	10.9	3.72	2.01	0.64	12.3	
	6	3.17	2.07	0.45	6.2	2.82	2.34	0.4	4.9	3.11	2.17	0.45	6.0	3.35	2.03	0.48	6.9	3.55	1.93	0.51	7.8	
	7	3	1.98	0.37	4.1	2.63	2.26	0.32	3.1	2.9	2.1	0.36	3.8	3.15	1.97	0.39	4.5	3.36	1.84	0.41	5.1	
8	3	3.42	2.19	0.98	28.9	3.05	2.46	0.88	23.0	3.34	2.3	0.96	27.5	3.6	2.17	1.03	31.9	3.83	2.05	1.1	36.1	
	4	3.27	2.12	0.7	14.8	2.9	2.38	0.62	11.7	3.17	2.25	0.68	14.0	3.42	2.1	0.74	16.3	3.64	1.99	0.78	18.4	
	5	3.1	2.03	0.53	8.6	2.72	2.31	0.47	6.6	3.01	2.15	0.52	8.1	3.27	2.02	0.56	9.5	3.49	1.91	0.6	10.8	
	6	2.9	1.97	0.42	5.2	2.55	2.25	0.37	4.0	2.85	2.08	0.41	5.0	3.1	1.93	0.44	5.9	3.31	1.82	0.47	6.8	
	7	2.73	1.88	0.34	3.4	2.36	2.16	0.29	2.5	2.65	2.01	0.33	3.2	2.9	1.86	0.36	3.8	3.1	1.75	0.38	4.4	
9	3	3.18	2.1	0.91	25.0	2.8	2.37	0.8	19.3	3.09	2.2	0.89	23.6	3.35	2.06	0.96	27.8	3.57	1.95	1.02	31.5	
	4	3	2.02	0.65	12.5	2.63	2.3	0.57	9.6	2.91	2.13	0.63	11.8	3.16	2.01	0.68	13.9	3.39	1.88	0.73	15.9	
	5	2.84	1.93	0.49	7.2	2.43	2.25	0.42	5.3	2.75	2.06	0.47	6.7	3	1.92	0.52	8.0	3.22	1.8	0.55	9.2	
	6	2.65	1.86	0.38	4.3	2.25	2.18	0.32	3.1	2.56	2	0.37	4.0	2.83	1.83	0.41	5.0	3.05	1.71	0.44	5.8	
	7	2.45	1.77	0.3	2.7	2.1	/	0.26	2.0	2.37	1.91	0.29	2.5	2.62	1.77	0.32	3.1	2.84	1.64	0.35	3.7	
10	3	2.92	1.99	0.84	21.0	2.51	2.28	0.72	15.6	2.8	2.12	0.8	19.3	3.08	1.98	0.88	23.4	3.32	1.85	0.95	27.2	
	4	2.74	1.91	0.59	10.4	2.32	2.23	0.5	7.5	2.64	2.05	0.57	9.7	2.91	1.9	0.63	11.8	3.13	1.78	0.67	13.6	
	5	2.56	1.85	0.44	5.8	2.18	/	0.37	4.2	2.45	1.98	0.42	5.3	2.73	1.83	0.47	6.6	2.96	1.7	0.51	7.8	
	6	2.38	1.77	0.34	3.5	2.06	/	0.3	2.6	2.27	1.91	0.33	3.2	2.55	1.73	0.37	4.0	2.77	1.61	0.4	4.7	
	7	2.18	1.69	0.27	2.1	1.94	/	0.24	1.7	2.07	1.84	0.25	2.0	2.34	1.68	0.29	2.5	2.59	1.53	0.32	3.0	
11	3	2.63	1.9	0.75	17.1	2.23	/	0.64	12.3	2.54	2.02	0.73	15.9	2.8	1.89	0.8	19.4	3.05	1.75	0.88	23.0	
	4	2.47	1.83	0.53	8.5	2.12	/	0.46	6.3	2.37	1.94	0.51	7.8	2.64	1.8	0.57	9.7	2.88	1.68	0.62	11.5	
	5	2.28	1.76	0.39	4.6	2.02	/	0.35	3.6	2.18	1.9	0.37	4.2	2.45	1.72	0.42	5.4	2.69	1.6	0.46	6.5	
	6	2.08	1.69	0.3	2.7	1.89	/	0.27	2.2	2	1.81	0.29	2.5	2.26	1.67	0.32	3.2	2.5	1.52	0.36	3.9	
	7	1.85	1.63	0.23	1.6	1.78	/	0.22	1.4	1.78	/	0.22	1.4	2.05	1.58	0.25	1.9	2.3	1.43	0.28	2.4	
12	3	2.35	1.81	0.67	13.7	2.07	/	0.59	10.5	2.24	1.95	0.64	12.4	2.54	1.78	0.73	15.9	2.77	1.66	0.8	19.0	
	4	2.18	1.75	0.47	6.6	1.97	/	0.42	5.4	2.07	1.88	0.45	6.0	2.36	1.71	0.51	7.7	2.61	1.58	0.56	9.5	
	5	1.99	1.68	0.34	3.5	1.88	/	0.32	3.2	1.89	1.82	0.32	3.2	2.18	1.65	0.37	4.2	2.42	1.51	0.42	5.2	
	6	1.77	1.63	0.25	1.9	1.75	/	0.25	1.9	1.75	1.72	0.25	1.9	1.97	1.58	0.28	2.4	2.22	1.43	0.32	3.0	
	7	1.57	/	0.19	1.1	1.63	/	0.2	1.2	1.61	/	0.2	1.2	1.72	1.5	0.21	1.3	2.01	1.34	0.25	1.8	
13	3	2.06	1.73	0.59	10.5	1.91	/	0.55	9.0	1.94	1.87	0.56	9.3	2.24	1.69	0.64	12.4	2.5	1.56	0.72	15.4	
	4	1.88	1.66	0.4	4.9	1.82	/	0.39	4.6	1.82	1.78	0.39	4.6	2.06	1.65	0.44	5.9	2.32	1.49	0.5	7.5	
	5	1.68	1.64	0.29	2.5	1.69	/	0.29	2.6	1.7	/	0.29	2.6	1.88	1.57	0.32	3.1	2.14	1.42	0.37	4.1	
	6	1.53	/	0.22	1.4	1.58	/	0.23	1.5	1.58	/	0.23	1.5	1.66	1.51	0.24	1.7	1.93	1.34	0.28	2.3	
	7	1.4	/	0.17	0.9	1.45	/	0.18	1.0	1.45	/	0.18	1.0	1.45	1.42	0.18	1.0	1.69	1.26	0.21	1.3	

Cooling capacity

MKF3(4,5)-450																						
EWT	Δt	Air inlet condition																				
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21				
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
5	3	5.06	3.05	1.45	46.5	4.64	3.35	1.33	39.1	4.96	3.18	1.42	44.6	5.24	3.04	1.5	49.9	5.53	2.9	1.59	55.6	
	4	4.86	2.96	1.05	24.2	4.47	3.25	0.96	20.4	4.78	3.09	1.03	23.4	5.06	2.96	1.09	26.2	5.32	2.81	1.14	28.9	
	5	4.65	2.85	0.8	14.1	4.26	3.17	0.73	11.8	4.56	2.99	0.78	13.6	4.86	2.85	0.84	15.5	5.11	4.42	0.88	17.1	
	6	4.45	2.77	0.64	9.0	4.05	3.06	0.58	7.4	4.36	2.89	0.62	8.6	4.66	2.74	0.67	9.9	4.89	2.6	0.7	10.8	
	7	4.23	2.64	0.52	6.0	3.83	2.99	0.47	4.9	4.13	2.79	0.51	5.7	4.43	2.64	0.54	6.6	4.68	2.5	0.58	7.3	
6	3	4.77	2.93	1.37	41.3	4.35	3.23	1.25	34.3	4.66	3.05	1.34	39.5	4.97	2.91	1.42	44.8	5.25	2.77	1.51	50.1	
	4	4.58	2.82	0.99	21.5	4.15	3.12	0.89	17.6	4.47	2.95	0.96	20.4	4.77	2.82	1.03	23.3	5.04	2.68	1.08	26.0	
	5	4.36	2.72	0.75	12.4	3.96	3.04	0.68	10.3	4.27	2.86	0.74	11.9	4.55	2.7	0.78	13.6	4.84	2.58	0.83	15.3	
	6	4.15	2.64	0.6	7.8	3.76	2.93	0.54	6.4	4.06	2.76	0.58	7.5	4.36	2.6	0.62	8.6	4.6	2.46	0.66	9.6	
	7	3.94	2.52	0.48	5.2	3.52	2.86	0.43	4.1	3.84	2.68	0.47	4.9	4.11	2.51	0.51	5.6	4.39	2.36	0.54	6.4	
7	3	4.46	2.78	1.28	36.1	4.04	3.1	1.16	29.7	4.36	2.93	1.25	34.5	4.68	2.78	1.34	39.8	4.94	2.64	1.42	44.4	
	4	4.27	2.69	0.92	18.7	3.83	3.03	0.82	15.0	4.16	2.83	0.89	17.7	4.47	2.69	0.96	20.4	4.75	2.55	1.02	23.0	
	5	4.06	2.59	0.7	10.8	3.64	2.93	0.63	8.7	3.97	2.73	0.68	10.3	4.26	2.57	0.73	11.8	4.52	2.45	0.78	13.4	
	6	3.84	2.51	0.55	6.7	3.43	2.84	0.49	5.3	3.78	2.64	0.54	6.5	4.06	2.47	0.58	7.5	4.31	2.34	0.62	8.4	
	7	3.64	2.4	0.45	4.4	3.2	2.74	0.39	3.4	3.52	2.56	0.43	4.1	3.82	2.39	0.47	4.9	4.08	2.24	0.5	5.6	
8	3	4.15	2.66	1.19	31.3	3.71	2.99	1.06	24.9	4.06	2.79	1.16	29.9	4.37	2.64	1.25	34.6	4.65	2.49	1.33	39.2	
	4	3.97	2.57	0.85	16.1	3.52	2.89	0.76	12.7	3.85	2.73	0.83	15.1	4.15	2.55	0.89	17.6	4.42	2.42	0.95	20.0	
	5	3.77	2.46	0.65	9.3	3.31	2.81	0.57	7.1	3.65	2.61	0.63	8.7	3.96	2.46	0.68	10.3	4.23	2.32	0.73	11.7	
	6	3.52	2.39	0.5	5.6	3.09	2.73	0.44	4.3	3.45	2.52	0.5	5.4	3.76	2.35	0.54	6.4	4.02	2.21	0.58	7.3	
	7	3.32	2.28	0.41	3.7	2.87	2.62	0.35	2.8	3.21	2.43	0.39	3.4	3.52	2.26	0.43	4.1	3.76	2.12	0.46	4.7	
9	3	3.86	2.54	1.11	27.1	3.4	2.88	0.97	21.0	3.75	2.67	1.08	25.6	4.07	2.5	1.17	30.1	4.34	2.37	1.24	34.1	
	4	3.64	2.45	0.78	13.6	3.2	2.79	0.69	10.4	3.53	2.59	0.76	12.8	3.84	2.43	0.83	15.0	4.11	2.29	0.88	17.3	
	5	3.45	2.35	0.59	7.8	2.96	2.73	0.51	5.7	3.34	2.5	0.57	7.3	3.64	2.33	0.63	8.7	3.91	2.18	0.67	10.0	
	6	3.22	2.26	0.46	4.7	2.73	2.64	0.39	3.4	3.1	2.42	0.45	4.4	3.44	2.22	0.49	5.4	3.71	2.08	0.53	6.2	
	7	2.98	2.15	0.37	3.0	2.55	/	0.31	2.2	2.88	2.31	0.35	2.8	3.19	2.15	0.39	3.4	3.45	1.99	0.42	4.0	
10	3	3.54	2.41	1.01	22.8	3.05	2.77	0.87	16.9	3.4	2.57	0.97	21.0	3.74	2.4	1.07	25.4	4.03	2.25	1.16	29.5	
	4	3.32	2.32	0.71	11.3	2.82	2.71	0.61	8.1	3.21	2.49	0.69	10.5	3.53	2.31	0.76	12.8	3.8	2.16	0.82	14.7	
	5	3.1	2.25	0.53	6.3	2.64	/	0.45	4.6	2.97	2.41	0.51	5.8	3.31	2.22	0.57	7.2	3.6	2.06	0.62	8.5	
	6	2.89	2.15	0.41	3.8	2.5	/	0.36	2.8	2.76	2.31	0.4	3.5	3.09	2.1	0.44	4.3	3.36	1.96	0.48	5.1	
	7	2.64	2.06	0.32	2.3	2.35	/	0.29	1.9	2.51	2.23	0.31	2.1	2.84	2.03	0.35	2.7	3.15	1.86	0.39	3.3	
11	3	3.2	2.3	0.92	18.6	2.71	/	0.78	13.3	3.08	2.45	0.88	17.2	3.4	2.29	0.98	21.0	3.71	2.13	1.06	24.9	
	4	3	2.22	0.64	9.2	2.58	/	0.55	6.8	2.88	2.36	0.62	8.4	3.2	2.18	0.69	10.5	3.5	2.04	0.75	12.5	
	5	2.77	2.14	0.48	5.0	2.45	/	0.42	3.9	2.64	2.3	0.45	4.6	2.98	2.09	0.51	5.8	3.27	1.94	0.56	7.0	
	6	2.52	2.05	0.36	2.9	2.3	/	0.33	2.4	2.42	2.2	0.35	2.7	2.75	2.02	0.39	3.4	3.04	1.84	0.44	4.2	
	7	2.25	1.98	0.28	1.7	2.17	/	0.27	1.6	2.17	/	0.27	1.6	2.49	1.92	0.31	2.1	2.8	1.74	0.34	2.6	
12	3	2.86	2.19	0.82	14.8	2.51	/	0.72	11.4	2.72	2.37	0.78	13.4	3.08	2.16	0.88	17.2	3.37	2.01	0.97	20.6	
	4	2.65	2.12	0.57	7.2	2.39	/	0.51	5.8	2.51	2.29	0.54	6.5	2.86	2.08	0.62	8.4	3.17	1.92	0.68	10.3	
	5	2.42	2.05	0.42	3.8	2.29	/	0.39	3.4	2.29	2.21	0.39	3.4	2.64	2.01	0.45	4.6	2.94	1.83	0.51	5.6	
	6	2.15	1.98	0.31	2.1	2.13	/	0.3	2.1	2.13	2.09	0.3	2.1	2.39	1.92	0.34	2.6	2.69	1.73	0.39	3.3	
	7	1.9	/	0.23	1.2	1.98	/	0.24	1.3	1.96	/	0.24	1.3	2.09	1.82	0.26	1.5	2.45	1.63	0.3	2.0	
13	3	2.5	2.1	0.72	11.3	2.31	/	0.66	9.7	2.35	2.27	0.67	10.1	2.72	2.06	0.78	13.4	3.04	1.9	0.87	16.7	
	4	2.29	2.02	0.49	5.3	2.21	/	0.47	5.0	2.21	2.17	0.47	5.0	2.5	2.01	0.54	6.4	2.82	1.8	0.61	8.1	
	5	2.04	1.99	0.35	2.7	2.06	/	0.35	2.8	2.06	/	0.35	2.8	2.28	1.91	0.39	3.4	2.6	1.72	0.45	4.4	
	6	1.86	/	0.27	1.6	1.92	/	0.28	1.7	1.92	/	0.28	1.7	2.01	1.84	0.29	1.8	2.34	1.63	0.34	2.5	
	7	1.7	/	0.21	1.0	1.76	/	0.22	1.0	1.76	/	0.22	1.0	1.76	1.72	0.22	1.0	2.05	1.54	0.25	1.4	

Cooling capacity

MKF3(4,5)-500																						
EWT	Δt	Air inlet condition																				
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21				
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
5	3	6.18	3.72	1.77	110.9	5.67	4.09	1.63	93.4	6.05	3.88	1.74	106.5	6.4	3.72	1.84	119.1	6.76	3.55	1.94	132.8	
	4	5.94	3.61	1.28	57.7	5.46	3.97	1.17	48.7	5.84	3.77	1.26	55.8	6.19	3.61	1.33	62.6	6.49	3.43	1.4	68.9	
	5	5.68	3.49	0.98	33.8	5.2	3.88	0.89	28.3	5.57	3.65	0.96	32.5	5.94	3.48	1.02	36.9	6.24	5.4	1.07	40.8	
	6	5.43	3.39	0.78	21.4	4.95	3.74	0.71	17.8	5.33	3.53	0.76	20.6	5.7	3.35	0.82	23.6	5.97	3.18	0.86	25.9	
	7	5.16	3.23	0.63	14.2	4.68	3.65	0.57	11.7	5.05	3.41	0.62	13.6	5.42	3.23	0.67	15.7	5.72	3.05	0.7	17.4	
6	3	5.83	3.58	1.67	98.7	5.31	3.94	1.52	82.0	5.7	3.73	1.63	94.3	6.07	3.56	1.74	107.0	6.42	3.39	1.84	119.7	
	4	5.6	3.45	1.2	51.2	5.07	3.81	1.09	42.1	5.47	3.6	1.18	48.8	5.83	3.44	1.25	55.5	6.16	3.28	1.32	62.0	
	5	5.33	3.32	0.92	29.7	4.84	3.71	0.83	24.5	5.22	3.5	0.9	28.5	5.56	3.3	0.96	32.4	5.91	3.15	1.02	36.6	
	6	5.07	3.23	0.73	18.7	4.59	3.58	0.66	15.3	4.95	3.37	0.71	17.8	5.33	3.17	0.76	20.6	5.62	3.01	0.81	22.9	
	7	4.81	3.08	0.59	12.3	4.3	3.49	0.53	9.9	4.69	3.28	0.58	11.7	5.02	3.07	0.62	13.5	5.37	2.88	0.66	15.4	
7	3	5.44	3.4	1.56	86.1	4.94	3.79	1.42	70.9	5.33	3.58	1.53	82.4	5.72	3.39	1.64	95.0	6.04	3.22	1.73	106.0	
	4	5.22	3.28	1.12	44.5	4.68	3.7	1.01	35.8	5.08	3.46	1.09	42.2	5.46	3.28	1.17	48.7	5.8	3.11	1.25	55.0	
	5	4.95	3.16	0.85	25.7	4.44	3.58	0.76	20.7	4.85	3.34	0.83	24.6	5.2	3.14	0.89	28.3	5.52	2.99	0.95	31.9	
	6	4.7	3.07	0.67	16.0	4.19	3.47	0.6	12.7	4.61	3.22	0.66	15.5	4.96	3.02	0.71	17.9	5.27	2.86	0.76	20.2	
	7	4.44	2.93	0.55	10.5	3.91	3.35	0.48	8.1	4.3	3.12	0.53	9.9	4.67	2.92	0.57	11.6	4.99	2.74	0.61	13.3	
8	3	5.07	3.25	1.45	74.8	4.53	3.65	1.3	59.6	4.95	3.41	1.42	71.3	5.33	3.22	1.53	82.6	5.68	3.04	1.63	93.6	
	4	4.85	3.14	1.04	38.4	4.3	3.53	0.93	30.3	4.7	3.33	1.01	36.1	5.07	3.11	1.09	42.1	5.4	2.95	1.16	47.7	
	5	4.61	3.01	0.79	22.2	4.04	3.43	0.69	17.1	4.47	3.19	0.77	20.9	4.84	3	0.83	24.5	5.17	2.83	0.89	28.0	
	6	4.3	2.92	0.62	13.5	3.78	3.34	0.54	10.4	4.22	3.08	0.6	12.9	4.59	2.87	0.66	15.3	4.91	2.7	0.7	17.5	
	7	4.05	2.79	0.5	8.8	3.51	3.2	0.43	6.6	3.93	2.97	0.48	8.2	4.3	2.76	0.53	9.9	4.6	2.59	0.56	11.3	
9	3	4.72	3.11	1.35	64.6	4.15	3.51	1.19	50.0	4.58	3.26	1.31	61.0	4.98	3.06	1.43	71.9	5.3	2.9	1.52	81.5	
	4	4.45	3	0.96	32.4	3.91	3.41	0.84	24.9	4.32	3.16	0.93	30.5	4.69	2.97	1.01	35.9	5.02	2.79	1.08	41.3	
	5	4.21	2.87	0.72	18.6	3.61	3.33	0.62	13.6	4.08	3.06	0.7	17.4	4.44	2.85	0.76	20.7	4.78	2.67	0.82	23.9	
	6	3.93	2.76	0.56	11.2	3.34	3.23	0.48	8.1	3.79	2.96	0.54	10.5	4.2	2.72	0.6	12.8	4.53	2.54	0.65	14.9	
	7	3.64	2.63	0.45	7.1	3.11	/	0.38	5.2	3.51	2.83	0.43	6.6	3.89	2.63	0.48	8.1	4.21	2.43	0.52	9.5	
10	3	4.33	2.95	1.24	54.3	3.72	3.38	1.07	40.3	4.15	3.14	1.19	50.0	4.57	2.93	1.31	60.7	4.93	2.74	1.41	70.5	
	4	4.06	2.83	0.87	26.9	3.44	3.31	0.74	19.4	3.92	3.04	0.84	25.1	4.32	2.82	0.93	30.5	4.64	2.64	1	35.2	
	5	3.79	2.74	0.65	15.1	3.23	/	0.55	10.9	3.63	2.94	0.62	13.8	4.05	2.71	0.7	17.1	4.4	2.52	0.76	20.2	
	6	3.53	2.62	0.51	9.1	3.06	/	0.44	6.8	3.37	2.83	0.48	8.3	3.78	2.56	0.54	10.4	4.11	2.39	0.59	12.3	
	7	3.23	2.51	0.4	5.6	2.88	/	0.35	4.4	3.07	2.72	0.38	5.0	3.46	2.48	0.43	6.4	3.84	2.27	0.47	7.9	
11	3	3.91	2.81	1.12	44.3	3.31	/	0.95	31.8	3.77	3	1.08	41.2	4.16	2.8	1.19	50.2	4.53	2.6	1.3	59.6	
	4	3.66	2.72	0.79	21.9	3.15	/	0.68	16.2	3.51	2.88	0.76	20.2	3.91	2.67	0.84	25.0	4.28	2.49	0.92	29.9	
	5	3.38	2.61	0.58	12.0	3	/	0.52	9.4	3.23	2.81	0.55	10.9	3.64	2.55	0.63	13.9	4	2.37	0.69	16.7	
	6	3.08	2.51	0.44	6.9	2.81	/	0.4	5.7	2.96	2.69	0.42	6.4	3.36	2.47	0.48	8.2	3.71	2.25	0.53	10.0	
	7	2.74	2.41	0.34	4.0	2.65	/	0.33	3.7	2.65	/	0.33	3.7	3.04	2.34	0.37	5.0	3.42	2.12	0.42	6.2	
12	3	3.49	2.68	1	35.4	3.07	/	0.88	27.3	3.32	2.89	0.95	32.1	3.77	2.64	1.08	41.2	4.12	2.46	1.18	49.2	
	4	3.23	2.59	0.7	17.1	2.92	/	0.63	13.9	3.07	2.79	0.66	15.4	3.5	2.54	0.75	20.0	3.87	2.34	0.83	24.5	
	5	2.95	2.5	0.51	9.1	2.79	/	0.48	8.2	2.8	2.7	0.48	8.2	3.23	2.45	0.55	10.9	3.59	2.24	0.62	13.5	
	6	2.62	2.41	0.38	5.0	2.6	/	0.37	4.9	2.6	2.55	0.37	4.9	2.93	2.34	0.42	6.2	3.29	2.11	0.47	7.9	
	7	2.32	/	0.29	2.9	2.41	/	0.3	3.1	2.39	/	0.29	3.1	2.55	2.23	0.31	3.5	2.99	1.99	0.37	4.8	
13	3	3.05	2.56	0.87	27.1	2.83	/	0.81	23.2	2.88	2.78	0.82	24.0	3.32	2.51	0.95	32.0	3.71	2.32	1.06	40.0	
	4	2.79	2.46	0.6	12.7	2.69	/	0.58	11.9	2.69	2.65	0.58	11.9	3.05	2.45	0.66	15.2	3.44	2.2	0.74	19.4	
	5	2.49	2.44	0.43	6.5	2.51	/	0.43	6.6	2.52	/	0.43	6.6	2.79	2.33	0.48	8.1	3.17	2.1	0.55	10.5	
	6	2.27	/	0.33	3.7	2.34	/	0.34	4.0	2.34	/	0.34	4.0	2.46	2.25	0.35	4.4	2.86	1.99	0.41	6.0	
	7	2.07	/	0.25	2.3	2.15	/	0.26	2.5	2.16	/	0.26	2.5	2.16	2.11	0.26	2.5	2.51	1.88	0.31	3.4	

Cooling capacity

MKF3(4,5)-600																						
EWT	Δt	Air inlet condition																				
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21				
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
5	3	7.19	4.33	2.06	51.4	6.59	4.76	1.89	43.3	7.04	4.52	2.02	49.3	7.45	4.32	2.13	55.2	7.86	4.13	2.25	61.5	
	4	6.91	4.2	1.49	26.7	6.35	4.61	1.36	22.6	6.8	4.39	1.46	25.9	7.19	4.2	1.55	29.0	7.55	3.99	1.62	31.9	
	5	6.61	4.05	1.14	15.7	6.05	4.51	1.04	13.1	6.48	4.25	1.11	15.0	6.91	4.04	1.19	17.1	7.26	6.27	1.25	18.9	
	6	6.32	3.94	0.91	9.9	5.75	4.35	0.82	8.2	6.19	4.1	0.89	9.6	6.62	3.89	0.95	10.9	6.94	3.69	1	12.0	
	7	6.01	3.75	0.74	6.6	5.44	4.25	0.67	5.4	5.87	3.96	0.72	6.3	6.3	3.75	0.77	7.3	6.65	3.55	0.82	8.1	
6	3	6.78	4.16	1.94	45.8	6.18	4.58	1.77	38.0	6.62	4.34	1.9	43.7	7.06	4.13	2.02	49.6	7.46	3.94	2.14	55.5	
	4	6.51	4.01	1.4	23.7	5.9	4.44	1.27	19.5	6.36	4.19	1.37	22.6	6.78	4	1.46	25.7	7.16	3.81	1.54	28.7	
	5	6.19	3.87	1.07	13.8	5.63	4.31	0.97	11.4	6.07	4.07	1.04	13.2	6.47	3.83	1.11	15.0	6.88	3.66	1.18	17.0	
	6	5.9	3.75	0.85	8.7	5.34	4.17	0.77	7.1	5.76	3.91	0.83	8.3	6.19	3.69	0.89	9.6	6.54	3.5	0.94	10.6	
	7	5.59	3.58	0.69	5.7	5.01	4.06	0.61	4.6	5.45	3.81	0.67	5.4	5.84	3.56	0.72	6.2	6.24	3.35	0.77	7.1	
7	3	6.33	3.96	1.82	39.9	5.75	4.4	1.65	32.9	6.19	4.16	1.78	38.2	6.65	3.95	1.91	44.0	7.02	3.74	2.01	49.1	
	4	6.07	3.82	1.31	20.6	5.44	4.31	1.17	16.6	5.91	4.02	1.27	19.6	6.35	3.82	1.36	22.6	6.75	3.62	1.45	25.5	
	5	5.76	3.68	0.99	11.9	5.17	4.17	0.89	9.6	5.64	3.88	0.97	11.4	6.05	3.65	1.04	13.1	6.42	3.48	1.1	14.8	
	6	5.46	3.57	0.78	7.4	4.87	4.04	0.7	5.9	5.36	3.74	0.77	7.2	5.77	3.51	0.83	8.3	6.13	3.32	0.88	9.4	
	7	5.17	3.41	0.63	4.9	4.54	3.89	0.56	3.8	5	3.63	0.61	4.6	5.43	3.39	0.67	5.4	5.8	3.18	0.71	6.2	
8	3	5.9	3.78	1.69	34.7	5.27	4.25	1.51	27.6	5.76	3.96	1.65	33.1	6.2	3.74	1.78	38.3	6.6	3.54	1.89	43.4	
	4	5.64	3.65	1.21	17.8	5.01	4.11	1.08	14.0	5.47	3.87	1.18	16.8	5.9	3.62	1.27	19.5	6.28	3.43	1.35	22.1	
	5	5.36	3.5	0.92	10.3	4.7	3.99	0.81	7.9	5.19	3.71	0.89	9.7	5.63	3.49	0.97	11.4	6.01	3.3	1.03	13.0	
	6	5.01	3.39	0.72	6.2	4.39	3.88	0.63	4.8	4.91	3.58	0.7	6.0	5.34	3.34	0.77	7.1	5.71	3.14	0.82	8.1	
	7	4.71	3.24	0.58	4.1	4.08	3.72	0.5	3.0	4.57	3.46	0.56	3.8	5	3.21	0.61	4.6	5.35	3.01	0.66	5.2	
9	3	5.49	3.61	1.57	30.0	4.83	4.09	1.38	23.2	5.33	3.79	1.53	28.3	5.79	3.56	1.66	33.3	6.16	3.37	1.77	37.8	
	4	5.18	3.48	1.11	15.0	4.54	3.96	0.98	11.6	5.02	3.68	1.08	14.1	5.45	3.46	1.17	16.7	5.84	3.25	1.26	19.1	
	5	4.9	3.34	0.84	8.6	4.2	3.87	0.72	6.3	4.74	3.56	0.82	8.1	5.17	3.31	0.89	9.6	5.56	3.1	0.96	11.1	
	6	4.57	3.21	0.66	5.2	3.88	3.75	0.56	3.8	4.41	3.44	0.63	4.8	4.88	3.16	0.7	5.9	5.27	2.95	0.75	6.9	
	7	4.23	3.06	0.52	3.3	3.62	/	0.44	2.4	4.09	3.29	0.5	3.1	4.53	3.06	0.56	3.7	4.9	2.82	0.6	4.4	
10	3	5.03	3.43	1.44	25.2	4.33	3.93	1.24	18.7	4.83	3.65	1.38	23.2	5.31	3.41	1.52	28.1	5.73	3.19	1.64	32.7	
	4	4.72	3.3	1.01	12.5	4	3.85	0.86	9.0	4.56	3.53	0.98	11.6	5.02	3.28	1.08	14.1	5.4	3.07	1.16	16.3	
	5	4.41	3.19	0.76	7.0	3.75	/	0.65	5.0	4.22	3.42	0.73	6.4	4.7	3.15	0.81	7.9	5.11	2.93	0.88	9.4	
	6	4.11	3.05	0.59	4.2	3.56	/	0.51	3.2	3.92	3.29	0.56	3.8	4.39	2.98	0.63	4.8	4.78	2.78	0.68	5.7	
	7	3.75	2.92	0.46	2.6	3.34	/	0.41	2.1	3.57	3.17	0.44	2.3	4.03	2.89	0.49	3.0	4.47	2.65	0.55	3.7	
11	3	4.54	3.27	1.3	20.5	3.85	/	1.1	14.8	4.38	3.48	1.26	19.1	4.83	3.26	1.39	23.3	5.27	3.02	1.51	27.6	
	4	4.26	3.16	0.92	10.2	3.66	/	0.79	7.5	4.09	3.35	0.88	9.4	4.55	3.1	0.98	11.6	4.97	2.9	1.07	13.9	
	5	3.93	3.04	0.68	5.5	3.48	/	0.6	4.4	3.75	3.27	0.65	5.0	4.23	2.97	0.73	6.4	4.65	2.76	0.8	7.7	
	6	3.58	2.91	0.51	3.2	3.26	/	0.47	2.7	3.44	3.13	0.49	3.0	3.91	2.87	0.56	3.8	4.31	2.62	0.62	4.6	
	7	3.19	2.81	0.39	1.9	3.08	/	0.38	1.7	3.08	/	0.38	1.7	3.54	2.73	0.43	2.3	3.97	2.47	0.49	2.9	
12	3	4.06	3.12	1.16	16.4	3.56	/	1.02	12.7	3.87	3.36	1.11	14.9	4.38	3.07	1.26	19.1	4.79	2.86	1.37	22.8	
	4	3.76	3.01	0.81	7.9	3.39	/	0.73	6.5	3.57	3.25	0.77	7.2	4.07	2.95	0.87	9.3	4.5	2.73	0.97	11.3	
	5	3.43	2.91	0.59	4.2	3.25	/	0.56	3.8	3.26	3.14	0.56	3.8	3.75	2.85	0.65	5.0	4.18	2.6	0.72	6.3	
	6	3.05	2.81	0.44	2.3	3.02	/	0.43	2.3	3.02	2.96	0.43	2.3	3.4	2.73	0.49	2.9	3.83	2.46	0.55	3.6	
	7	2.7	/	0.33	1.3	2.81	/	0.34	1.4	2.78	/	0.34	1.4	2.97	2.59	0.36	1.6	3.48	2.31	0.43	2.2	
13	3	3.55	2.98	1.02	12.5	3.29	/	0.94	10.8	3.34	3.23	0.96	11.1	3.86	2.92	1.11	14.8	4.31	2.69	1.24	18.5	
	4	3.25	2.86	0.7	5.9	3.13	/	0.67	5.5	3.13	3.08	0.67	5.5	3.55	2.85	0.76	7.1	4	2.56	0.86	9.0	
	5	2.9	2.83	0.5	3.0	2.92	/	0.5	3.1	2.93	/	0.5	3.1	3.24	2.71	0.56	3.8	3.69	2.44	0.63	4.9	
	6	2.64	/	0.38	1.7	2.73	/	0.39	1.9	2.73	/	0.39	1.9	2.86	2.61	0.41	2.0	3.33	2.31	0.48	2.8	
	7	2.41	/	0.3	1.1	2.5	/	0.31	1.1	2.51	/	0.31	1.2	2.51	2.45	0.31	1.2	2.91	2.18	0.36	1.6	

Cooling capacity

MKF3(4,5)-800																						
EWT	Δt	Air inlet condition																				
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21				
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
5	3	8.31	5.01	2.38	42.8	7.62	5.5	2.18	36.1	8.14	5.22	2.33	41.1	8.61	5	2.47	46.0	9.09	4.77	2.61	51.3	
	4	7.99	4.85	1.72	22.3	7.34	5.33	1.58	18.8	7.86	5.07	1.69	21.6	8.32	4.85	1.79	24.2	8.73	4.61	1.88	26.6	
	5	7.64	4.69	1.31	13.0	6.99	5.21	1.2	10.9	7.49	4.91	1.29	12.5	7.99	4.68	1.37	14.3	8.39	7.25	1.44	15.7	
	6	7.3	4.55	1.05	8.3	6.65	5.03	0.95	6.9	7.16	4.74	1.03	8.0	7.66	4.5	1.1	9.1	8.03	4.27	1.15	10.0	
	7	6.94	4.34	0.85	5.5	6.28	4.91	0.77	4.5	6.78	4.58	0.83	5.3	7.28	4.34	0.89	6.1	7.69	4.1	0.94	6.7	
6	3	7.84	4.81	2.25	38.1	7.14	5.3	2.05	31.7	7.66	5.01	2.2	36.4	8.16	4.78	2.34	41.3	8.63	4.55	2.47	46.2	
	4	7.53	4.64	1.62	19.8	6.82	5.13	1.47	16.3	7.35	4.85	1.58	18.9	7.84	4.63	1.68	21.5	8.28	4.4	1.78	23.9	
	5	7.16	4.47	1.23	11.5	6.51	4.99	1.12	9.5	7.02	4.7	1.21	11.0	7.48	4.43	1.29	12.5	7.95	4.23	1.37	14.1	
	6	6.82	4.34	0.98	7.2	6.17	4.82	0.88	5.9	6.66	4.53	0.95	6.9	7.16	4.26	1.03	8.0	7.55	4.05	1.08	8.9	
	7	6.46	4.14	0.79	4.8	5.79	4.69	0.71	3.8	6.3	4.4	0.77	4.5	6.76	4.12	0.83	5.2	7.22	3.88	0.89	5.9	
7	3	7.32	4.57	2.1	33.3	6.64	5.09	1.9	27.4	7.16	4.81	2.05	31.8	7.69	4.56	2.2	36.7	8.12	4.33	2.33	40.9	
	4	7.02	4.41	1.51	17.2	6.29	4.98	1.35	13.8	6.83	4.65	1.47	16.3	7.34	4.41	1.58	18.8	7.8	4.19	1.68	21.2	
	5	6.66	4.25	1.15	9.9	5.97	4.82	1.03	8.0	6.52	4.49	1.12	9.5	6.99	4.21	1.2	10.9	7.42	4.02	1.28	12.3	
	6	6.31	4.13	0.9	6.2	5.63	4.67	0.81	4.9	6.2	4.33	0.89	6.0	6.67	4.06	0.96	6.9	7.08	3.84	1.02	7.8	
	7	5.97	3.94	0.73	4.1	5.25	4.5	0.64	3.1	5.78	4.2	0.71	3.8	6.28	3.92	0.77	4.5	6.71	3.68	0.82	5.1	
8	3	6.82	4.37	1.96	28.9	6.09	4.91	1.75	23.0	6.66	4.58	1.91	27.5	7.17	4.33	2.06	31.9	7.63	4.09	2.19	36.1	
	4	6.52	4.22	1.4	14.8	5.79	4.75	1.24	11.7	6.32	4.48	1.36	14.0	6.82	4.19	1.47	16.3	7.26	3.97	1.56	18.4	
	5	6.19	4.05	1.06	8.6	5.43	4.61	0.93	6.6	6	4.29	1.03	8.1	6.51	4.04	1.12	9.5	6.95	3.81	1.2	10.8	
	6	5.79	3.92	0.83	5.2	5.08	4.49	0.73	4.0	5.67	4.14	0.81	5.0	6.17	3.86	0.88	5.9	6.6	3.63	0.95	6.8	
	7	5.45	3.74	0.67	3.4	4.71	4.3	0.58	2.5	5.28	4	0.65	3.2	5.78	3.71	0.71	3.8	6.18	3.48	0.76	4.4	
9	3	6.34	4.18	1.82	25.0	5.58	4.72	1.6	19.3	6.16	4.38	1.77	23.6	6.69	4.11	1.92	27.8	7.12	3.9	2.04	31.5	
	4	5.98	4.03	1.29	12.5	5.25	4.58	1.13	9.6	5.8	4.25	1.25	11.8	6.3	4	1.36	13.9	6.76	3.75	1.45	15.9	
	5	5.66	3.86	0.97	7.2	4.85	4.48	0.84	5.3	5.49	4.11	0.94	6.7	5.97	3.83	1.03	8.0	6.43	3.58	1.11	9.2	
	6	5.29	3.72	0.76	4.3	4.49	4.34	0.64	3.1	5.1	3.98	0.73	4.0	5.65	3.65	0.81	5.0	6.09	3.42	0.87	5.8	
	7	4.89	3.54	0.6	2.7	4.19	/	0.51	2.0	4.72	3.8	0.58	2.5	5.23	3.54	0.64	3.1	5.66	3.26	0.7	3.7	
10	3	5.81	3.96	1.67	21.0	5.01	4.54	1.43	15.6	5.58	4.22	1.6	19.3	6.14	3.94	1.76	23.4	6.62	3.69	1.9	27.2	
	4	5.46	3.81	1.17	10.4	4.63	4.45	1	7.5	5.27	4.08	1.13	9.7	5.8	3.79	1.25	11.8	6.24	3.55	1.34	13.6	
	5	5.1	3.69	0.88	5.8	4.34	/	0.75	4.2	4.88	3.95	0.84	5.3	5.44	3.64	0.94	6.6	5.91	3.39	1.02	7.8	
	6	4.75	3.53	0.68	3.5	4.11	/	0.59	2.6	4.53	3.8	0.65	3.2	5.08	3.44	0.73	4.0	5.52	3.22	0.79	4.7	
	7	4.34	3.38	0.53	2.1	3.87	/	0.48	1.7	4.13	3.66	0.51	2.0	4.66	3.34	0.57	2.5	5.17	3.06	0.63	3.0	
11	3	5.25	3.78	1.5	17.1	4.45	/	1.28	12.3	5.06	4.03	1.45	15.9	5.59	3.76	1.6	19.4	6.09	3.49	1.75	23.0	
	4	4.92	3.65	1.06	8.5	4.23	/	0.91	6.3	4.72	3.88	1.02	7.8	5.26	3.58	1.13	9.7	5.75	3.35	1.24	11.5	
	5	4.54	3.51	0.78	4.6	4.03	/	0.69	3.6	4.34	3.78	0.75	4.2	4.89	3.43	0.84	5.4	5.37	3.19	0.92	6.5	
	6	4.14	3.37	0.59	2.7	3.77	/	0.54	2.2	3.98	3.61	0.57	2.5	4.52	3.32	0.65	3.2	4.99	3.03	0.71	3.9	
	7	3.69	3.25	0.45	1.6	3.56	/	0.44	1.4	3.56	/	0.44	1.4	4.09	3.15	0.5	1.9	4.59	2.85	0.56	2.4	
12	3	4.69	3.6	1.35	13.7	4.12	/	1.18	10.5	4.47	3.89	1.28	12.4	5.06	3.55	1.45	15.9	5.53	3.3	1.59	19.0	
	4	4.35	3.48	0.93	6.6	3.92	/	0.84	5.4	4.13	3.75	0.89	6.0	4.7	3.42	1.01	7.7	5.2	3.15	1.12	9.5	
	5	3.97	3.36	0.68	3.5	3.75	/	0.65	3.2	3.76	3.63	0.65	3.2	4.34	3.29	0.75	4.2	4.83	3.01	0.83	5.2	
	6	3.53	3.25	0.51	1.9	3.49	/	0.5	1.9	3.49	3.42	0.5	1.9	3.93	3.15	0.56	2.4	4.42	2.84	0.63	3.0	
	7	3.12	/	0.38	1.1	3.25	/	0.4	1.2	3.22	/	0.4	1.2	3.43	2.99	0.42	1.3	4.02	2.67	0.49	1.8	
13	3	4.1	3.44	1.18	10.5	3.8	/	1.09	9.0	3.87	3.74	1.11	9.3	4.46	3.38	1.28	12.4	4.99	3.11	1.43	15.4	
	4	3.75	3.31	0.81	4.9	3.62	/	0.78	4.6	3.62	3.56	0.78	4.6	4.1	3.29	0.88	5.9	4.63	2.96	1	7.5	
	5	3.35	3.27	0.58	2.5	3.38	/	0.58	2.6	3.39	/	0.58	2.6	3.74	3.13	0.64	3.1	4.26	2.82	0.73	4.1	
	6	3.05	/	0.44	1.4	3.15	/	0.45	1.5	3.15	/	0.45	1.5	3.3	3.02	0.47	1.7	3.85	2.67	0.55	2.3	
	7	2.78	/	0.34	0.9	2.89	/	0.35	1.0	2.9	/	0.36	1.0	2.9	2.83	0.36	1.0	3.37	2.52	0.41	1.3	

Cooling capacity

MKF3(4,5)-900																					
EWT	Δt	Air inlet condition																			
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21			
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
5	3	10	6.03	2.87	54.6	9.18	6.63	2.63	45.9	9.8	6.29	2.81	52.4	10.36	6.01	2.97	58.6	10.94	5.74	3.14	65.3
	4	9.62	5.85	2.07	28.4	8.84	6.42	1.9	24.0	9.46	6.11	2.03	27.5	10.01	5.85	2.15	30.8	10.51	5.55	2.26	33.9
	5	9.2	5.64	1.58	16.6	8.42	6.28	1.45	13.9	9.02	5.91	1.55	16.0	9.62	5.63	1.65	18.2	10.1	8.73	1.74	20.1
	6	8.79	5.48	1.26	10.5	8.01	6.06	1.15	8.8	8.62	5.71	1.24	10.1	9.22	5.41	1.32	11.6	9.66	5.14	1.38	12.7
	7	8.36	5.22	1.03	7.0	7.57	5.91	0.93	5.7	8.17	5.52	1	6.7	8.77	5.22	1.08	7.7	9.25	4.94	1.14	8.6
6	3	9.44	5.79	2.7	48.6	8.6	6.38	2.46	40.3	9.22	6.04	2.64	46.4	9.82	5.75	2.82	52.6	10.39	5.48	2.98	58.9
	4	9.06	5.58	1.95	25.2	8.21	6.17	1.77	20.7	8.85	5.83	1.9	24.0	9.44	5.57	2.03	27.3	9.97	5.3	2.14	30.5
	5	8.62	5.38	1.48	14.6	7.84	6	1.35	12.1	8.45	5.66	1.45	14.0	9.01	5.34	1.55	15.9	9.57	5.1	1.65	18.0
	6	8.21	5.22	1.18	9.2	7.43	5.8	1.07	7.5	8.02	5.45	1.15	8.8	8.62	5.13	1.24	10.1	9.1	4.87	1.3	11.3
	7	7.78	4.98	0.96	6.1	6.97	5.65	0.86	4.9	7.59	5.3	0.93	5.8	8.13	4.96	1	6.6	8.69	4.67	1.07	7.6
7	3	8.81	5.51	2.53	42.4	8	6.13	2.29	34.9	8.62	5.79	2.47	40.5	9.25	5.49	2.65	46.7	9.78	5.21	2.8	52.1
	4	8.45	5.31	1.82	21.9	7.58	5.99	1.63	17.6	8.22	5.6	1.77	20.8	8.84	5.31	1.9	24.0	9.39	5.04	2.02	27.1
	5	8.02	5.12	1.38	12.6	7.19	5.8	1.24	10.2	7.85	5.4	1.35	12.1	8.42	5.07	1.45	13.9	8.94	4.84	1.54	15.7
	6	7.6	4.97	1.09	7.9	6.77	5.62	0.97	6.3	7.46	5.21	1.07	7.6	8.03	4.88	1.15	8.8	8.53	4.62	1.22	9.9
	7	7.19	4.75	0.88	5.2	6.32	5.41	0.78	4.0	6.96	5.05	0.85	4.9	7.56	4.72	0.93	5.7	8.08	4.43	0.99	6.5
8	3	8.21	5.27	2.35	36.8	7.33	5.91	2.1	29.3	8.02	5.52	2.3	35.1	8.63	5.21	2.47	40.6	9.19	4.93	2.63	46.0
	4	7.85	5.09	1.69	18.9	6.97	5.72	1.5	14.9	7.61	5.39	1.64	17.8	8.21	5.04	1.77	20.7	8.74	4.78	1.88	23.5
	5	7.45	4.87	1.28	10.9	6.54	5.55	1.12	8.4	7.23	5.17	1.24	10.3	7.84	4.86	1.35	12.1	8.37	4.59	1.44	13.8
	6	6.97	4.72	1	6.6	6.12	5.4	0.88	5.1	6.83	4.98	0.98	6.4	7.43	4.64	1.07	7.5	7.95	4.37	1.14	8.6
	7	6.56	4.51	0.81	4.3	5.68	5.18	0.7	3.2	6.35	4.81	0.78	4.1	6.96	4.46	0.85	4.9	7.44	4.19	0.91	5.6
9	3	7.63	5.03	2.19	31.8	6.72	5.69	1.93	24.6	7.42	5.28	2.13	30.0	8.05	4.95	2.31	35.4	8.57	4.69	2.46	40.1
	4	7.2	4.85	1.55	15.9	6.32	5.52	1.36	12.3	6.99	5.12	1.5	15.0	7.59	4.81	1.63	17.7	8.13	4.52	1.75	20.3
	5	6.82	4.64	1.17	9.1	5.85	5.39	1.01	6.7	6.6	4.95	1.14	8.6	7.19	4.61	1.24	10.2	7.74	4.32	1.33	11.8
	6	6.37	4.47	0.91	5.5	5.4	5.22	0.77	4.0	6.14	4.79	0.88	5.1	6.8	4.4	0.97	6.3	7.33	4.11	1.05	7.3
	7	5.89	4.26	0.72	3.5	5.04	/	0.62	2.6	5.69	4.58	0.7	3.2	6.3	4.26	0.77	4.0	6.82	3.93	0.84	4.7
10	3	7	4.77	2.01	26.7	6.03	5.47	1.73	19.8	6.72	5.09	1.93	24.6	7.4	4.75	2.12	29.8	7.97	4.44	2.29	34.7
	4	6.57	4.59	1.41	13.2	5.57	5.36	1.2	9.5	6.34	4.92	1.36	12.4	6.99	4.57	1.5	15.0	7.51	4.27	1.61	17.3
	5	6.14	4.44	1.06	7.4	5.22	/	0.9	5.4	5.88	4.76	1.01	6.8	6.55	4.38	1.13	8.4	7.11	4.08	1.22	9.9
	6	5.72	4.25	0.82	4.5	4.95	/	0.71	3.3	5.46	4.58	0.78	4.1	6.12	4.15	0.88	5.1	6.65	3.87	0.95	6.0
	7	5.22	4.07	0.64	2.7	4.66	/	0.57	2.2	4.97	4.41	0.61	2.5	5.61	4.02	0.69	3.2	6.22	3.68	0.76	3.9
11	3	6.32	4.55	1.81	21.8	5.36	/	1.54	15.7	6.09	4.85	1.75	20.3	6.73	4.53	1.93	24.7	7.33	4.2	2.1	29.3
	4	5.92	4.4	1.27	10.8	5.1	/	1.1	8.0	5.69	4.67	1.22	9.9	6.33	4.32	1.36	12.3	6.92	4.03	1.49	14.7
	5	5.47	4.23	0.94	5.9	4.85	/	0.83	4.6	5.22	4.55	0.9	5.4	5.89	4.13	1.01	6.8	6.47	3.84	1.11	8.2
	6	4.98	4.06	0.71	3.4	4.54	/	0.65	2.8	4.79	4.35	0.69	3.1	5.44	4	0.78	4.0	6	3.65	0.86	4.9
	7	4.44	3.91	0.55	2.0	4.28	/	0.53	1.8	4.28	/	0.53	1.8	4.93	3.79	0.61	2.4	5.53	3.43	0.68	3.1
12	3	5.65	4.34	1.62	17.4	4.96	/	1.42	13.4	5.38	4.68	1.54	15.8	6.09	4.27	1.75	20.3	6.66	3.98	1.91	24.2
	4	5.23	4.19	1.13	8.4	4.72	/	1.02	6.9	4.97	4.52	1.07	7.6	5.66	4.11	1.22	9.8	6.26	3.79	1.35	12.0
	5	4.78	4.04	0.82	4.5	4.52	/	0.78	4.0	4.53	4.37	0.78	4.0	5.22	3.96	0.9	5.4	5.81	3.62	1	6.6
	6	4.25	3.91	0.61	2.5	4.2	/	0.6	2.4	4.2	4.12	0.6	2.4	4.73	3.79	0.68	3.1	5.32	3.42	0.76	3.9
	7	3.76	/	0.46	1.4	3.91	/	0.48	1.5	3.87	/	0.48	1.5	4.13	3.6	0.51	1.7	4.84	3.22	0.59	2.3
13	3	4.94	4.15	1.42	13.3	4.58	/	1.31	11.4	4.66	4.5	1.33	11.8	5.37	4.07	1.54	15.7	6	3.75	1.72	19.7
	4	4.52	3.99	0.97	6.3	4.36	/	0.94	5.8	4.36	4.28	0.94	5.8	4.94	3.96	1.06	7.5	5.57	3.57	1.2	9.5
	5	4.03	3.94	0.69	3.2	4.07	/	0.7	3.3	4.08	/	0.7	3.3	4.51	3.77	0.78	4.0	5.13	3.4	0.88	5.2
	6	3.67	/	0.53	1.8	3.79	/	0.54	2.0	3.79	/	0.54	2.0	3.98	3.64	0.57	2.2	4.63	3.22	0.66	2.9
	7	3.35	/	0.41	1.1	3.48	/	0.43	1.2	3.49	/	0.43	1.2	3.49	3.41	0.43	1.2	4.06	3.04	0.5	1.7

Cooling capacity modification coefficient table:

Speed	150		250		300		400		450		500		600		800		900	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
High	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Med	0.92	0.9	0.91	0.9	0.89	0.9	0.86	0.85	0.91	0.9	0.92	0.91	0.89	0.9	0.9	0.89	0.91	0.9
Low	0.85	0.84	0.86	0.86	0.76	0.8	0.73	0.72	0.77	0.8	0.78	0.77	0.79	0.8	0.77	0.76	0.8	0.8

Heating capacity

Δt: Temperature Difference (°C) **TH:** Total Heating Capacity (kW) **WF:** Water Flow (m³/h) **WPD:** Water Pressure Drop (kPa)

MKF3(4, 5)-150																								
Δt	Air inlet temp. (20°C DB)																							
	Water inlet temp. (°C)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	0.86	0.05	1.2	1.34	0.08	2.9	1.86	0.11	5.6	2.35	0.13	8.9	2.84	0.16	13.1	3.34	0.19	18.1	3.82	0.22	23.7	4.30	0.25	30.0
8	0.95	0.07	2.3	1.48	0.11	5.5	1.98	0.14	10.0	2.47	0.18	15.5	2.95	0.21	22.0	3.43	0.25	29.8	3.91	0.28	38.7	4.39	0.31	48.9
6	1.10	0.11	5.5	1.60	0.15	11.6	2.08	0.20	19.5	2.58	0.25	30.0	3.07	0.29	42.4	3.55	0.34	56.7	4.00	0.38	72.1	4.51	0.43	91.7
MKF3(4, 5)-250																								
Δt	Air inlet temp. (20°C DB)																							
	Water inlet temp. (°C)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	1.40	0.08	0.6	2.19	0.13	1.5	3.03	0.17	2.8	3.82	0.22	4.5	4.62	0.26	6.5	5.43	0.31	9.0	6.22	0.36	11.8	7.00	0.40	15.0
8	1.55	0.11	1.1	2.41	0.17	2.8	3.23	0.23	5.0	4.02	0.29	7.7	4.80	0.34	11.0	5.58	0.40	14.9	6.36	0.46	19.4	7.15	0.51	24.4
6	1.79	0.17	2.7	2.61	0.25	5.8	3.38	0.32	9.7	4.20	0.40	15.0	4.99	0.48	21.2	5.78	0.55	28.4	6.51	0.62	36.0	7.34	0.70	45.8
MKF3(4, 5)-300																								
Δt	Air inlet temp. (20°C DB)																							
	Water inlet temp. (°C)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	1.90	0.11	0.8	2.97	0.17	2.1	4.12	0.24	4.0	5.20	0.30	6.3	6.28	0.36	9.2	7.39	0.42	12.8	8.45	0.48	16.7	9.52	0.55	21.2
8	2.10	0.15	1.6	3.27	0.23	3.9	4.39	0.31	7.0	5.47	0.39	10.9	6.52	0.47	15.6	7.59	0.54	21.1	8.65	0.62	27.4	9.72	0.70	34.5
6	2.44	0.23	3.9	3.55	0.34	8.2	4.60	0.44	13.8	5.71	0.55	21.2	6.79	0.65	30.0	7.85	0.75	40.1	8.85	0.85	50.9	9.98	0.95	64.8
MKF3(4, 5)-400																								
Δt	Air inlet temp. (20°C DB)																							
	Water inlet temp. (°C)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	2.43	0.14	0.6	3.81	0.22	1.4	5.27	0.30	2.6	6.65	0.38	4.2	8.04	0.46	6.1	9.46	0.54	8.4	10.82	0.62	11.0	12.18	0.70	14.0
8	2.69	0.19	1.1	4.19	0.30	2.6	5.61	0.40	4.6	7.00	0.50	7.2	8.35	0.60	10.3	9.71	0.70	13.9	11.08	0.79	18.1	12.44	0.89	22.8
6	3.12	0.30	2.5	4.54	0.43	5.4	5.89	0.56	9.1	7.31	0.70	14.0	8.69	0.83	19.8	10.05	0.96	26.5	11.33	1.08	33.6	12.78	1.22	42.8
MKF3(4, 5)-450																								
Δt	Air inlet temp. (20°C DB)																							
	Water inlet temp. (°C)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	2.96	0.17	0.6	4.64	0.27	1.5	6.42	0.37	2.9	8.10	0.46	4.6	9.79	0.56	6.8	11.51	0.66	9.4	13.17	0.76	12.3	14.83	0.85	15.6
8	3.28	0.23	1.2	5.10	0.37	2.9	6.84	0.49	5.2	8.53	0.61	8.0	10.17	0.73	11.4	11.83	0.85	15.5	13.48	0.97	20.1	15.14	1.09	25.3
6	3.80	0.36	2.8	5.53	0.53	6.0	7.17	0.68	10.1	8.90	0.85	15.6	10.58	1.01	22.0	12.24	1.17	29.4	13.80	1.32	37.4	15.56	1.49	47.6

MKF3(4, 5)-500																								
Δt	Air inlet temp. (20℃ DB)																							
	Water inlet temp. (℃)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	3.42	0.20	1.3	5.37	0.31	3.2	7.43	0.43	6.2	9.38	0.54	9.8	11.33	0.65	14.4	13.33	0.76	19.9	15.25	0.87	26.0	17.17	0.98	33.0
8	3.79	0.27	2.5	5.91	0.42	6.1	7.91	0.57	11.0	9.87	0.71	17.0	11.76	0.84	24.2	13.69	0.98	32.8	15.61	1.12	42.6	17.53	1.26	53.7
6	4.39	0.42	6.0	6.40	0.61	12.7	8.30	0.79	21.4	10.30	0.98	33.0	12.24	1.17	46.6	14.17	1.35	62.4	15.97	1.53	79.3	18.01	1.72	100.9
MKF3(4, 5)-600																								
Δt	Air inlet temp. (20℃ DB)																							
	Water inlet temp. (℃)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	4.08	0.23	0.6	6.40	0.37	1.6	8.86	0.51	3.0	11.18	0.64	4.8	13.51	0.77	7.0	15.89	0.91	9.6	18.18	1.04	12.6	20.47	1.17	16.0
8	4.52	0.32	1.2	7.04	0.50	3.0	9.43	0.68	5.3	11.76	0.84	8.3	14.03	1.01	11.7	16.32	1.17	15.9	18.61	1.33	20.7	20.90	1.50	26.1
6	5.24	0.50	2.9	7.63	0.73	6.2	9.89	0.95	10.4	12.28	1.17	16.0	14.60	1.39	22.6	16.89	1.61	30.3	19.04	1.82	38.4	21.47	2.05	48.9
MKF3(4, 5)-800																								
Δt	Air inlet temp. (20℃ DB)																							
	Water inlet temp. (℃)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	5.12	0.29	0.6	8.02	0.46	1.6	11.11	0.64	3.0	14.02	0.80	4.7	16.94	0.97	6.9	19.92	1.14	9.6	22.79	1.31	12.5	25.67	1.47	15.9
8	5.67	0.41	1.2	8.83	0.63	2.9	11.83	0.85	5.3	14.75	1.06	8.2	17.59	1.26	11.7	20.46	1.47	15.8	23.33	1.67	20.5	26.21	1.88	25.9
6	6.57	0.63	2.9	9.57	0.91	6.1	12.40	1.19	10.3	15.40	1.47	15.9	18.31	1.75	22.5	21.18	2.02	30.1	23.87	2.28	38.2	26.92	2.57	48.6
MKG-900																								
Δt	Air inlet temp. (20℃ DB)																							
	Water inlet temp. (℃)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	6.06	0.35	0.8	9.51	0.55	1.9	13.17	0.75	3.7	16.61	0.95	5.9	20.08	1.15	8.7	23.61	1.35	12.0	27.01	1.55	15.7	30.42	1.74	19.9
8	6.72	0.48	1.5	10.47	0.75	3.7	14.02	1.00	6.6	17.48	1.25	10.3	20.84	1.49	14.6	24.25	1.74	19.8	27.65	1.98	25.7	31.05	2.23	32.4
6	7.78	0.74	3.6	11.34	1.08	7.7	14.70	1.40	12.9	18.25	1.74	19.9	21.70	2.07	28.1	25.10	2.40	37.6	28.29	2.70	47.8	31.91	3.05	60.8

Heating capacity modification coefficient table:

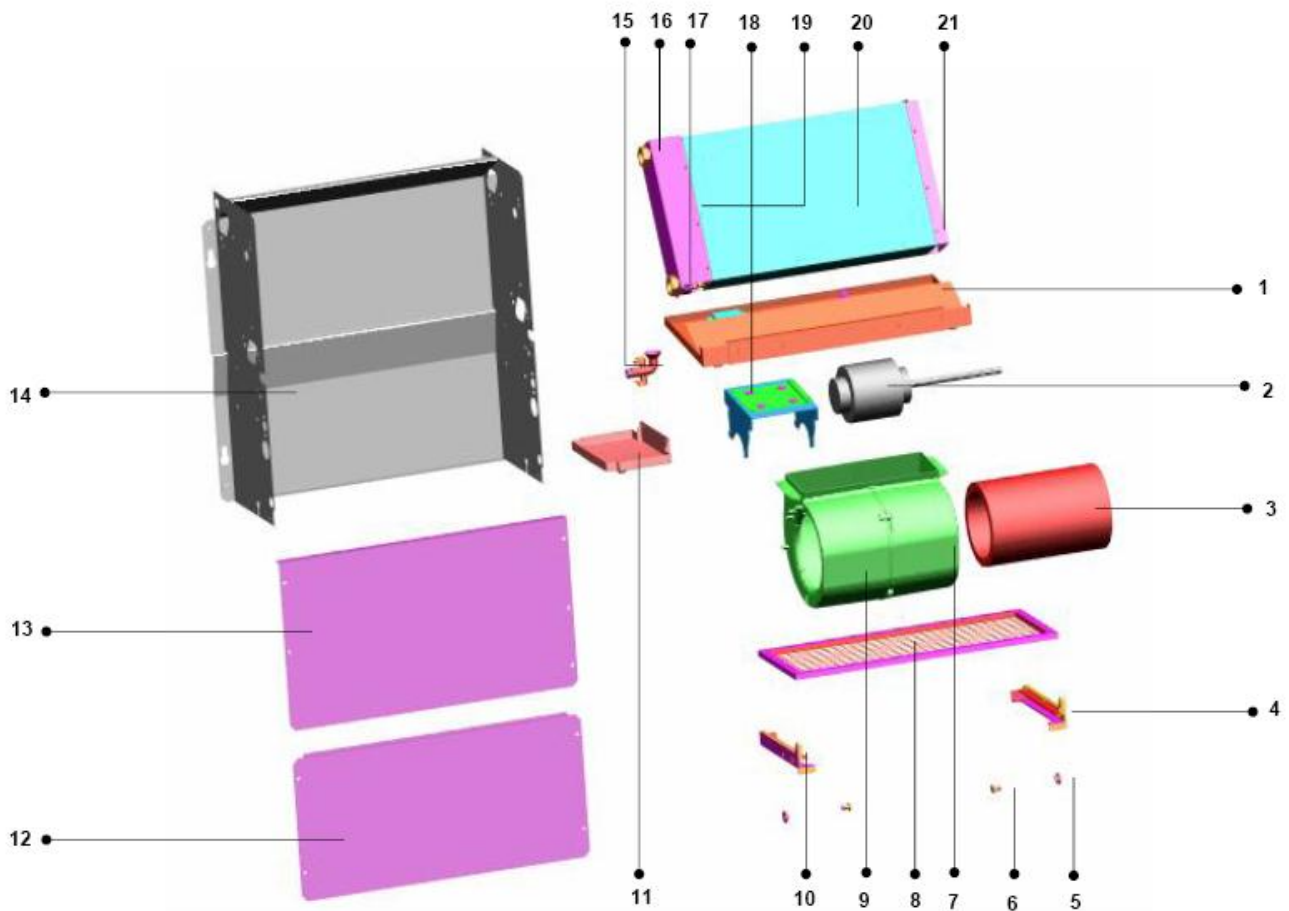
Speed	200	300	400	500	600	800	1000	1200	1400
	TH	TH	TH	TH	TH	TH	TH	TH	TH
High	1	1	1	1	1	1	1	1	1
Med	0.92	0.92	0.9	0.85	0.9	0.9	0.88	0.88	0.88
Low	0.84	0.85	0.82	0.73	0.76	0.8	0.77	0.76	0.76

Altitude modification coefficient table:

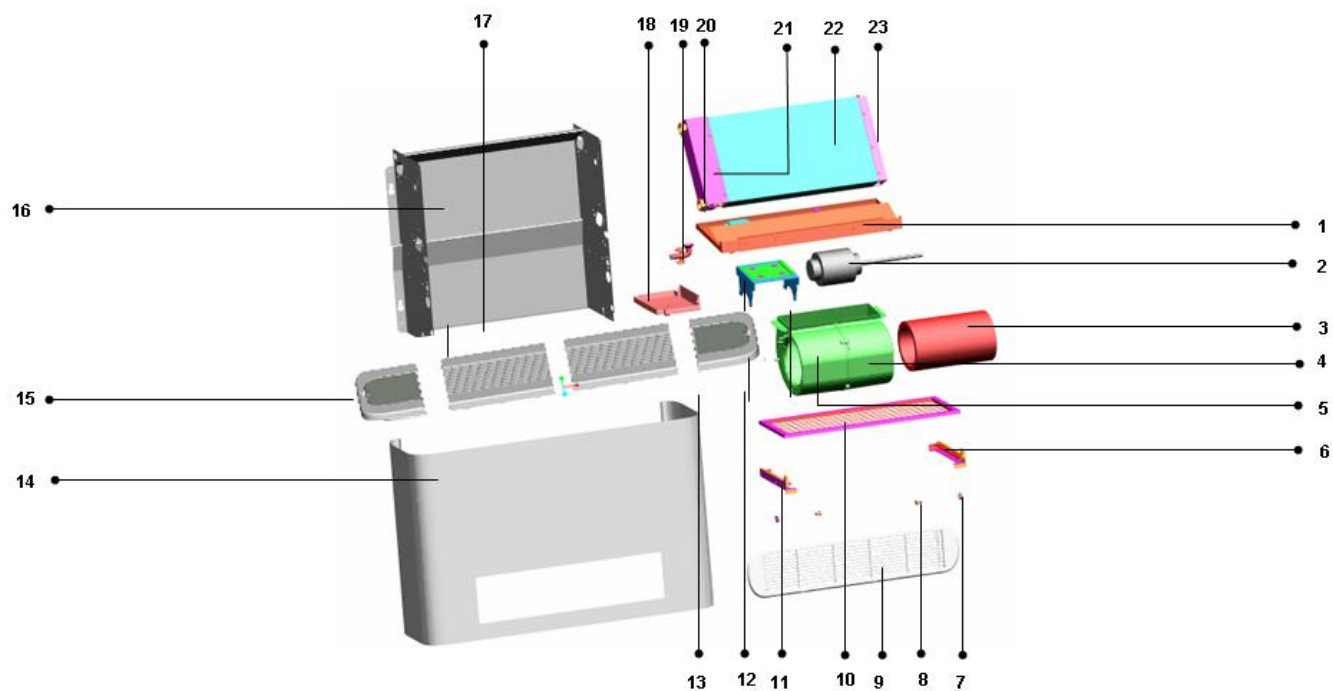
Altitude	TC	SC	TH
500	0.98	0.95	0.95
1000	0.97	0.91	0.91
1500	0.95	0.86	0.86
2000	0.94	0.82	0.82
2500	0.93	0.78	0.78
3000	0.91	0.74	0.7

11. Exploded View

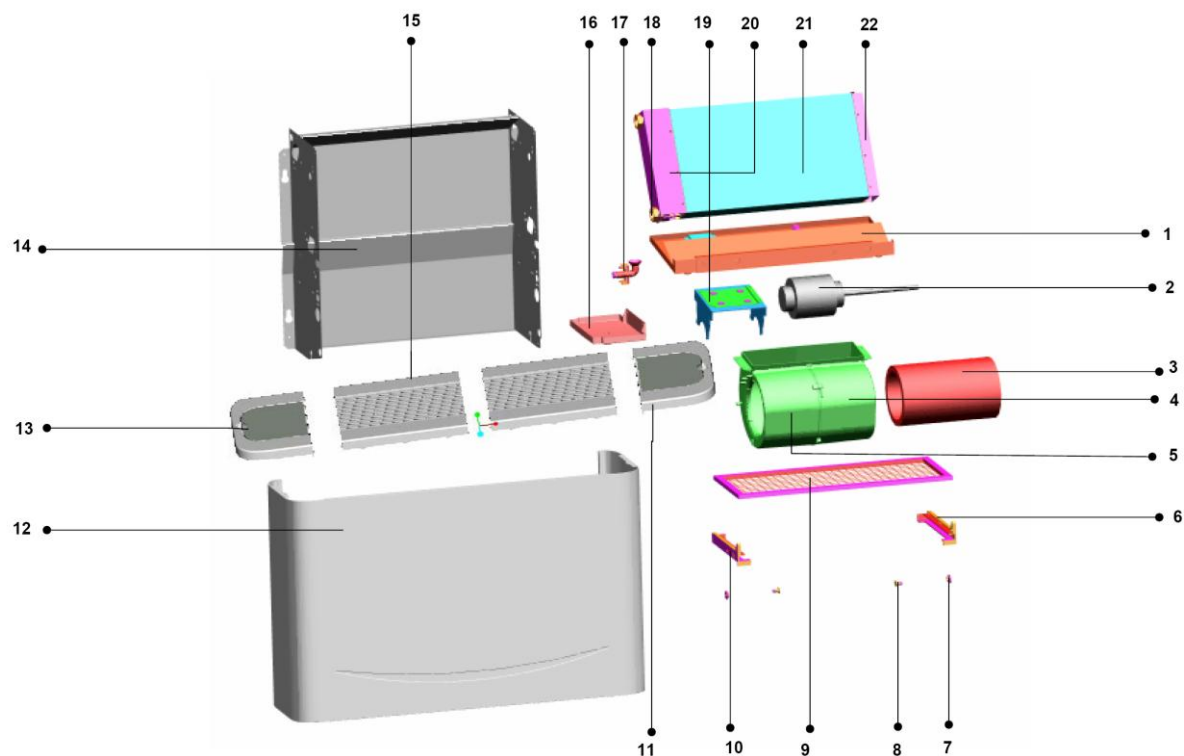
MKF3-150, MKF3-250, MKF3-300, MKF3-400



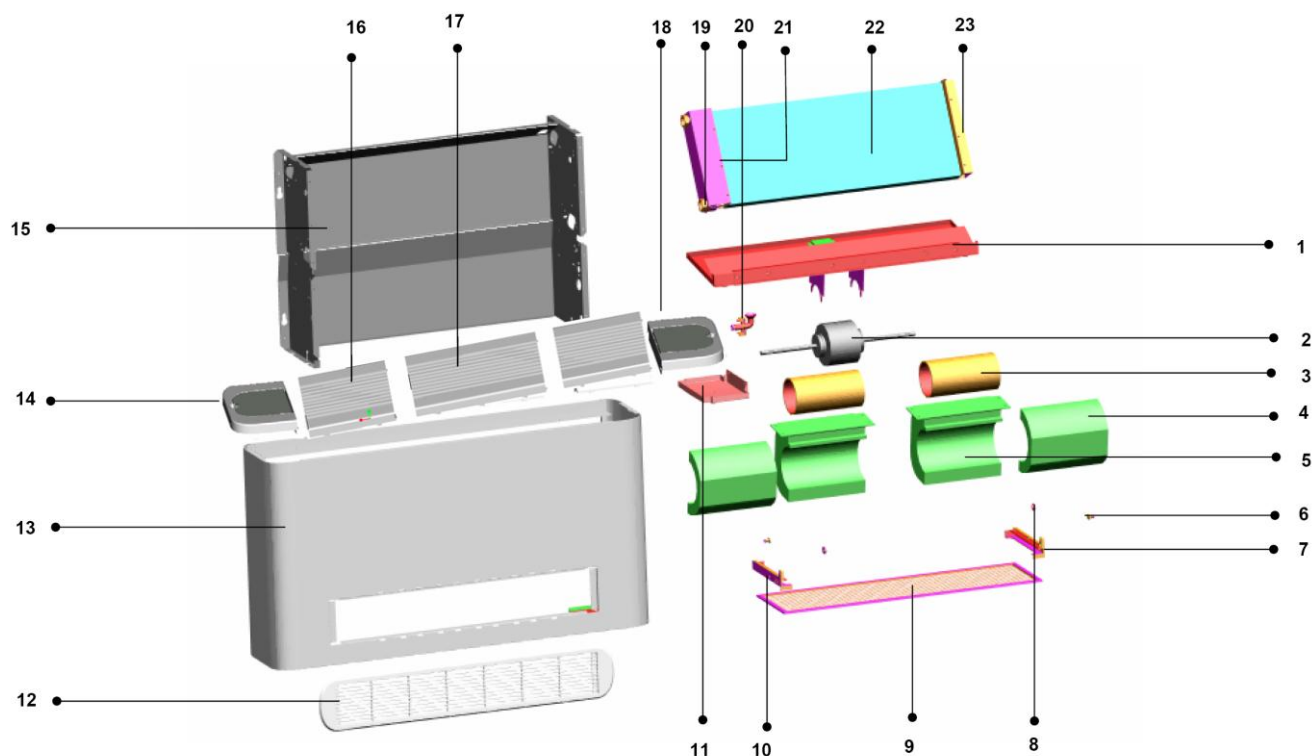
No.		Quantity	No.		Quantity
1	transom subassembly, middle	1	12	top cover I	1
2	Asynchronism motor	1	13	top cover II	1
3	cross flow fan	1	14	cabinet bottom subassembly	1
4	bracket II, filter	1	15	adapter, drain pipe	1
5	bracket III, filter	2	16	water tank	1
6	bracket IV, filter	2	17	water tank	1
7	right, scroll	1	18	motor mounting bracket	1
8	Filter	1	19	link subassembly I, evaporator	1
9	left, scroll	1	20	evaporator assembly	1
10	bracket I, filter	1	21	link subassembly II, evaporator	1
11	drip tray	1			



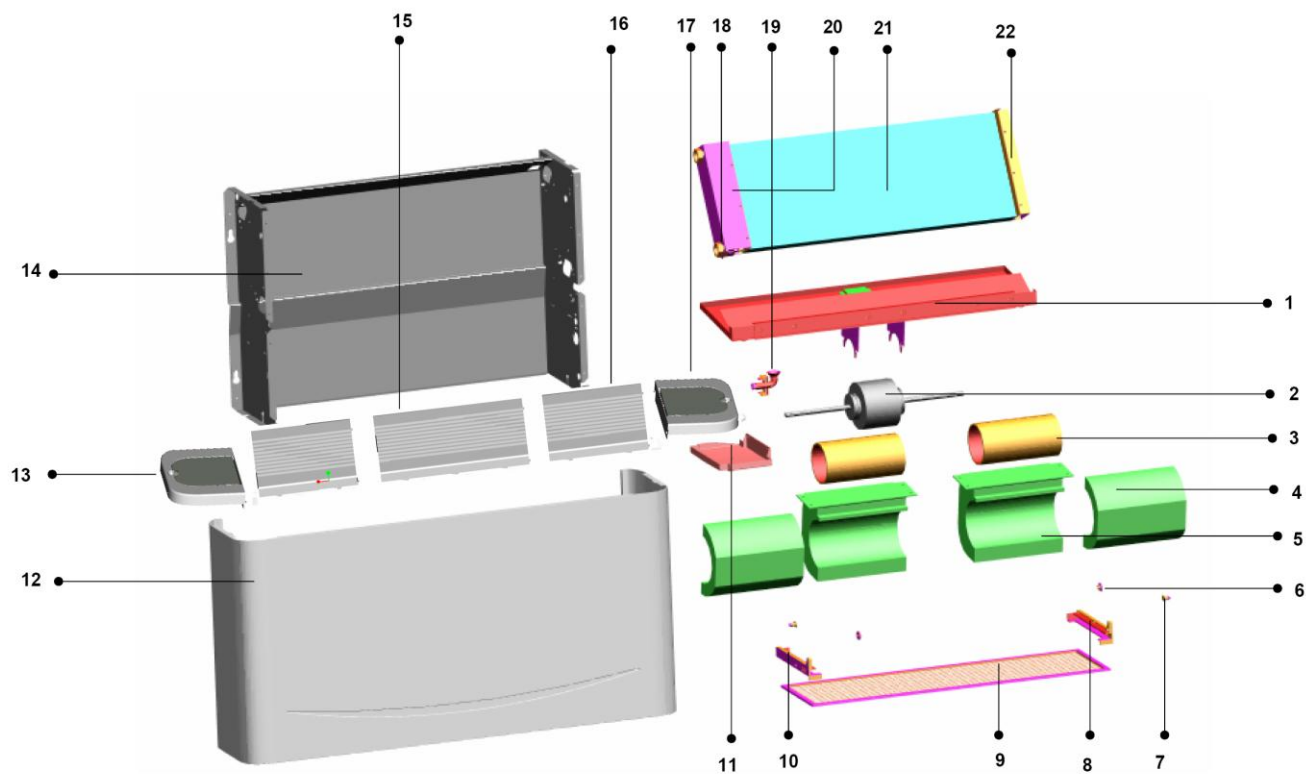
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	14	Cabinet subassembly	1
2	Asynchronism motor	1	15	Right cover seat, subassembly	1
3	Wind wheel	1	16	Cabinet bottom subassembly	1
4	Right volute shell	1	17	Air outlet grille subassembly	2
5	Left volute shell	1	18	Water collector	1
6	bracket II, filter	1	19	Adapter, drain pipe	1
7	bracket III, filter	2	20	Water collecting header	2
8	bracket IV, filter	2	21	Link subassembly I, evaporator	1
9	Shutter subassembly, air inlet	1	22	Evaporator subassembly	1
10	Filter	1	23	Link subassembly II, evaporator	1
11	Bracket I, filter	1			
12	Holder for fan motor	1			
13	Left ,cover seat, subassembly	1			

MKF5-150, MKF5-250

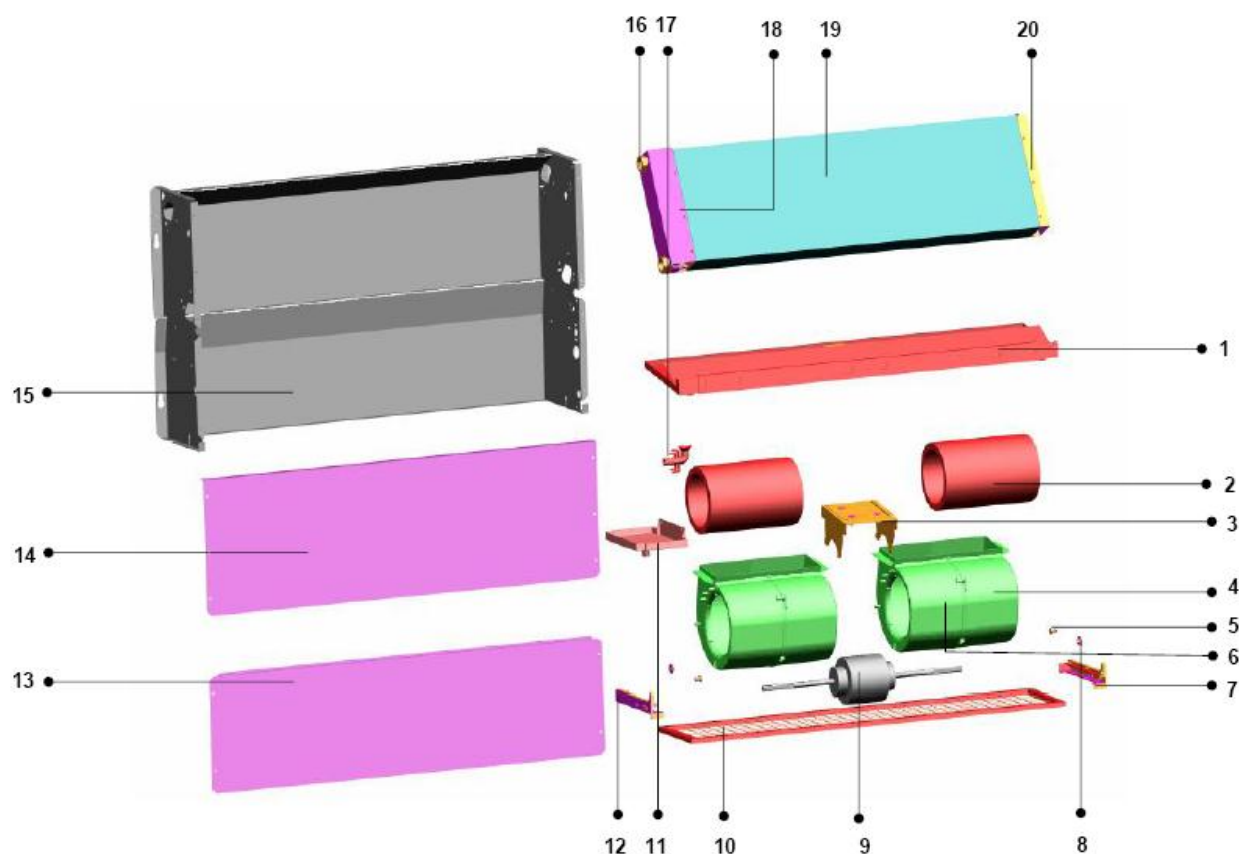
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	13	Right, cover seat, subassembly	1
2	Asynchronism motor	1	14	Cabinet bottom subassembly	1
3	Wind wheel	1	15	Air outlet grille subassembly	2
4	Right volute shell	1	16	Water collector	1
5	Left volute shell	1	17	Adapter, drain pipe	1
6	Bracket II, filter	1	18	Water collecting header	2
7	Bracket III, filter	2	19	Holder for fan motor	1
8	Bracket IV, filter	2	20	Link subassembly I, evaporator	1
9	Filter	1	21	Evaporator subassembly	1
10	Bracket I, filter	1	22	Link subassembly II, evaporator	1
11	Left, cover seat, subassembly	1			
12	Cabinet subassembly	1			



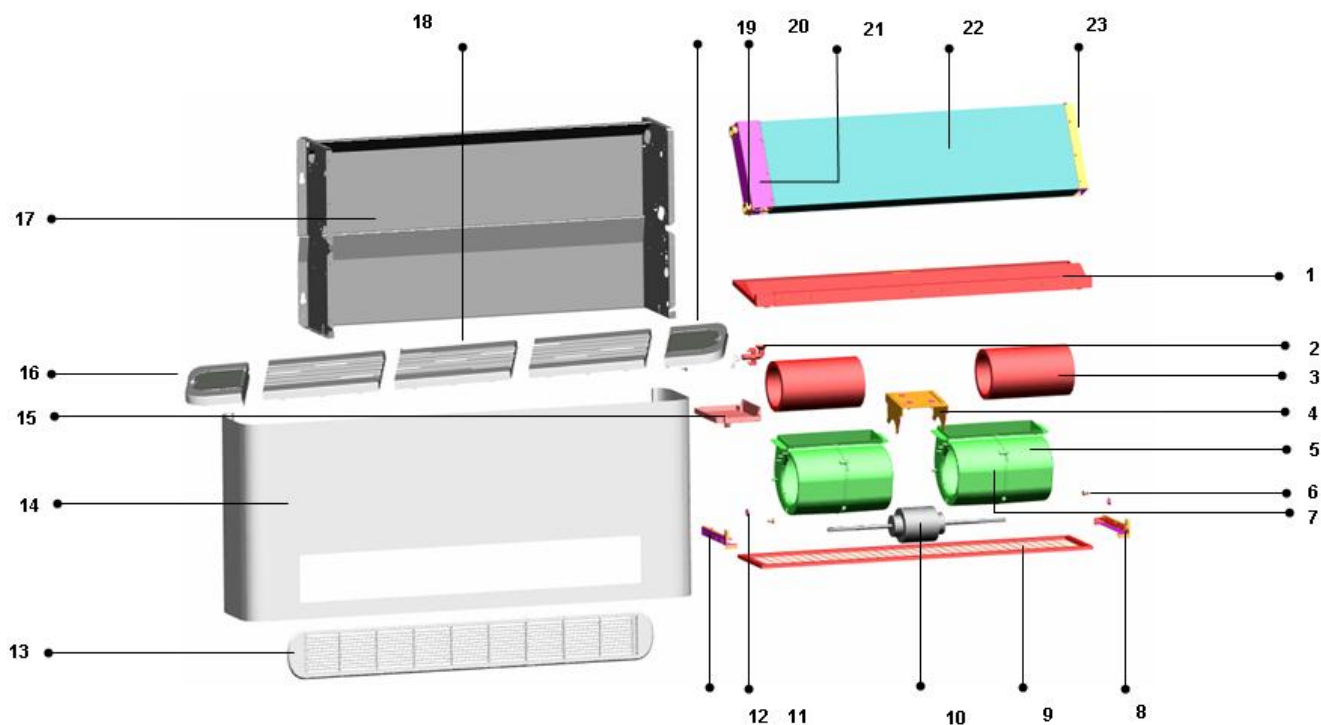
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	14	Right, cover seat, subassembly	1
2	Asynchronism motor	1	15	Cabinet bottom subassembly	1
3	Wind wheel	2	16	Air outlet grille subassembly	2
4	Volute shell, up half	1	17	Air outlet grille subassembly	1
5	Volute shell, below half	2	18	Left, cover seat, subassembly	1
6	Bracket IV, filter	2	19	Water collecting header	2
7	Bracket II, filter	1	20	Adapter, drain pipe	1
8	Bracket III, filter	2	21	Link subassembly I, evaporator	1
9	Filter	1	22	Evaporator subassembly	1
10	Bracket I, filter	1	23	Link subassembly II, evaporator	1
11	Water collector	1			
12	Shutter subassembly, air inlet	1			
13	Cabinet subassembly	1			

MKF5-300, MKF5-400

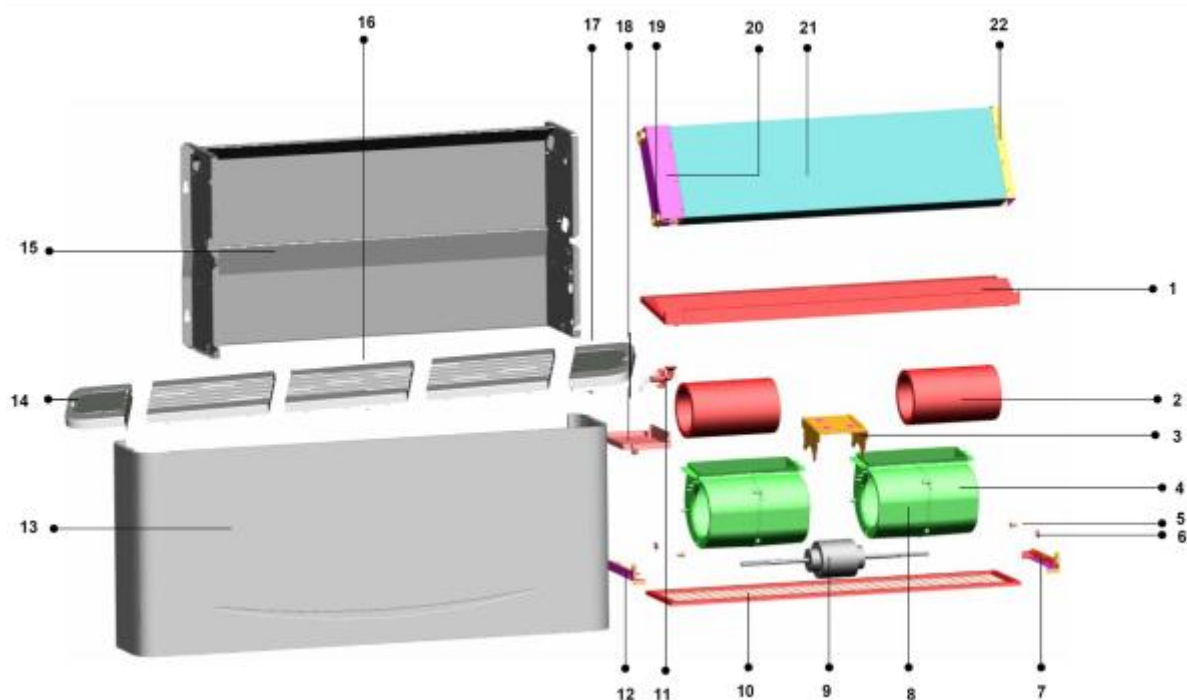
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	13	Right, cover seat, subassembly	1
2	Asynchronism motor	1	14	Cabinet bottom subassembly	1
3	Wind wheel	2	15	Air outlet grille subassembly	1
4	Volute shell, up half	1	16	Air outlet grille subassembly	2
5	Volute shell, below half	2	17	Left, cover seat, subassembly	1
6	Bracket III, filter	2	18	Water collecting header	2
7	Bracket IV, filter	2	19	Adapter, drain pipe	1
8	Bracket II, filter	1	20	Link subassembly I, evaporator	1
9	Filter	1	21	Evaporator subassembly	1
10	Bracket I, filter	1	22	Link subassembly II, evaporator	1
11	Water collector	1			
12	Cabinet subassembly	1			



No.		Quantity	No.		Quantity
1	transom subassembly, middle	1	12	bracket I, filter	1
2	cross flow fan	2	13	top cover I	1
3	motor mounting bracket	1	14	top cover II	1
4	right, scroll	2	15	cabinet bottom subassembly	1
5	bracket IV, filter	2	16	water tank	2
6	left, scroll	2	17	adapter, drain pipe	1
7	bracket II, filter	1	18	link subassembly I, evaporator	1
8	bracket III, filter	2	19	evaporator assembly	1
9	Asynchronism motor	1	20	link subassembly II, evaporator	1
10	filter	1			
11	drip tray	1			

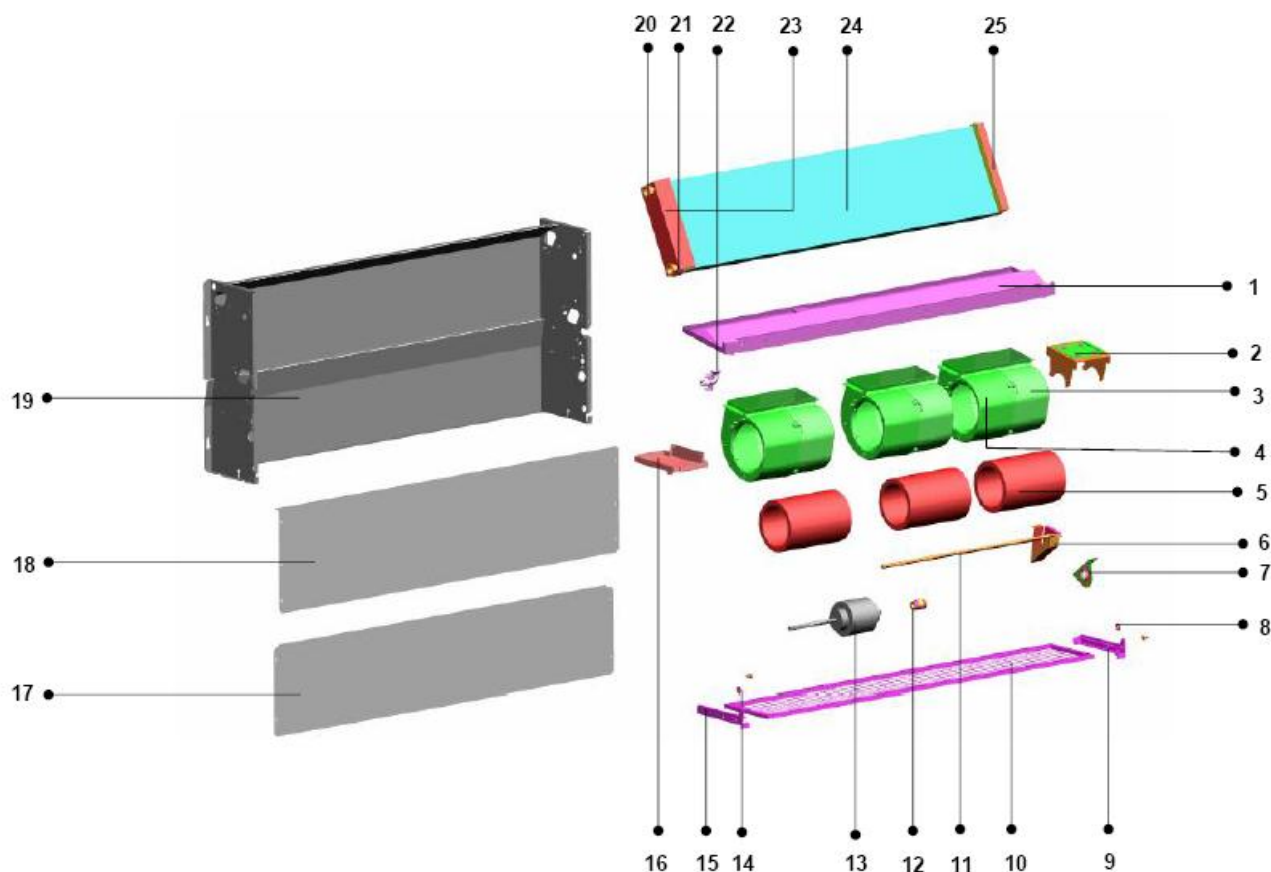
MKF4-450, MKF4-500

No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	13	Shutter subassembly, air inlet	1
2	Adapter, drain pipe	1	14	Cabinet subassembly	1
3	Wind wheel	2	15	Water collector	1
4	Holder for fan motor	1	16	Right, cover seat, subassembly	1
5	Right volute shell	2	17	Cabinet bottom subassembly	1
6	Bracket IV, filter	2	18	Air outlet grille subassembly	3
7	Left volute shell	2	19	Left, cover seat, subassembly	1
8	Bracket II, filter	1	20	Water collecting header	2
9	Filter	1	21	Link subassembly I, evaporator	1
10	Asynchronism motor	1	22	Evaporator subassembly	1
11	Bracket III, filter	2	23	Link subassembly II, evaporator	1
12	Bracket I, filter	1			

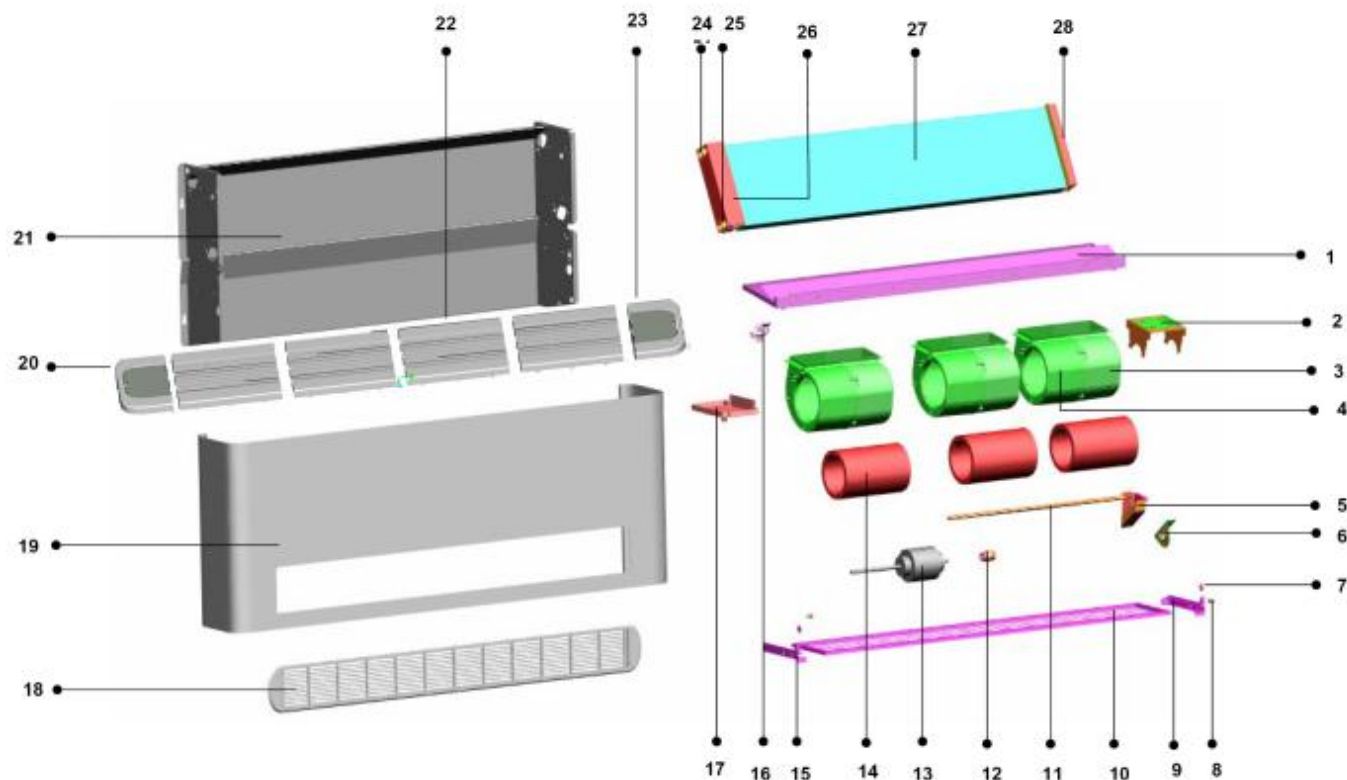


No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	13	Cabinet subassembly	1
2	Wind wheel	2	14	Right, cover seat, subassembly	1
3	Holder for fan motor	1	15	Cabinet bottom subassembly	1
4	Right volute shell	2	16	Air outlet grille subassembly	3
5	Bracket IV, filter	2	17	Left, cover seat, subassembly	1
6	Bracket III, filter	2	18	Water collector	1
7	Bracket II, filter	1	19	Water collecting header	1
8	Left volute shell	2	20	Link subassembly I, evaporator	1
9	Asynchronism motor	1	21	Evaporator subassembly	1
10	Filter	1	22	Link subassembly II, evaporator	1
11	Adapter, drain pipe	1			
12	Bracket I, filter	1			

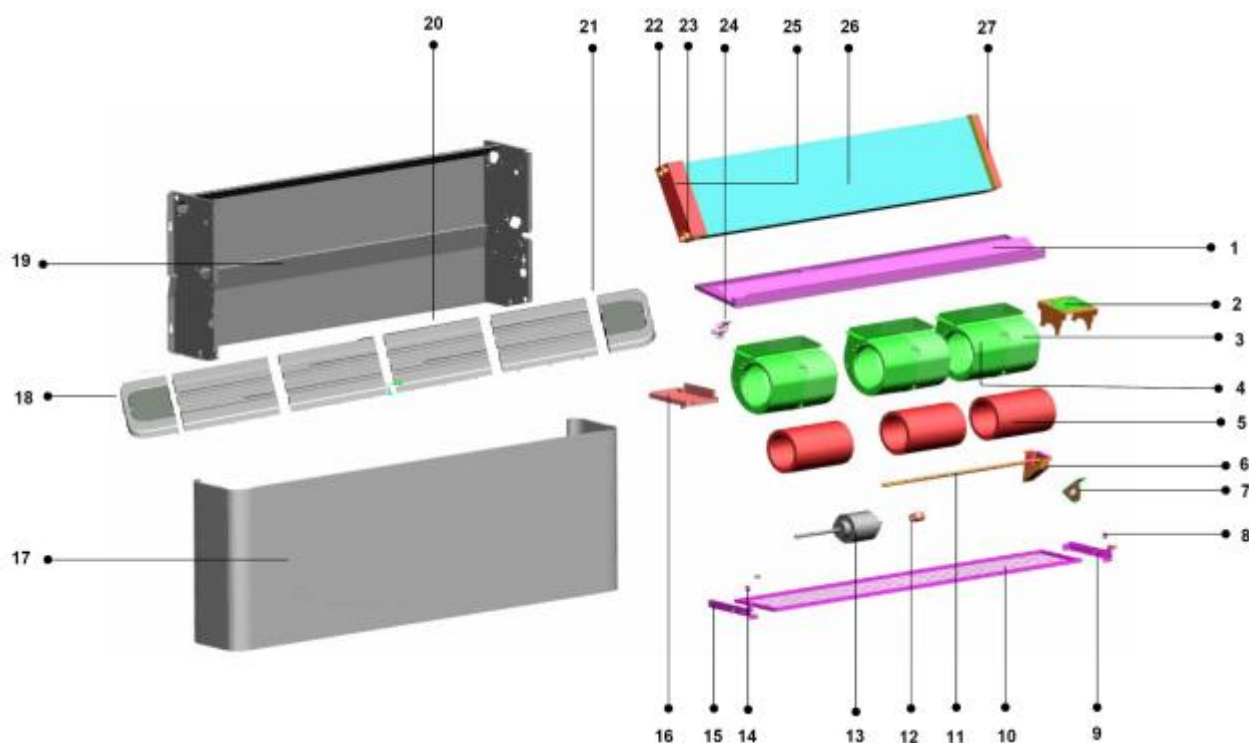
MKF3-600, MKF3-800, MKF3-900



No.		Quantity	No.		Quantity
1	Transom subassembly, middle	1	15	Bracket I, filter	1
2	Motor mounting bracket	1	16	Drip tray	1
3	Right, scroll	3	17	Top cover I	1
4	Left, scroll	3	18	Top cover II	1
5	Cross flow fan	3	19	Cabinet bottom subassembly	1
6	Support for bearing	1	20	Water tank	1
7	Bracket, bearing	1	21	Water tank	1
8	Bracket III, filter	2	22	Adapter, drain pipe	1
9	Bracket II, filter	1	23	Link subassembly I, evaporator	1
10	Filter	1	24	Evaporator assembly	1
11	Link axes	1	25	Link subassembly II, evaporator	1
12	Link axes, assembly	1			
13	Asynchronism motor	1			
14	Bracket IV, filter	2			

MKF4-600, MKF4-800, MKF4-900

No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	16	Adapter, drain pipe	1
2	Holder for fan motor	1	17	Water collector	1
3	Right volute shell	3	18	Shutter subassembly, air inlet	1
4	Left volute shell	3	19	Cabinet subassembly	1
5	Support for bearing	1	20	Right, cover seat, subassembly	1
6	Supporting board for bearing	1	21	Cabinet bottom subassembly	1
7	Bracket III, filter	2	22	Air outlet grille subassembly	4
8	Bracket IV, filter	2	23	Left, cover seat, subassembly	1
9	Bracket II, filter	1	24	Water collecting header	1
10	Filter	1	25	Water collecting header	1
11	Axis	1	26	Link subassembly I, evaporator	1
12	Coupling	1	27	Evaporator subassembly	1
13	Asynchronism motor	1	28	Link subassembly II, evaporator	1
14	Wind wheel	3			
15	Bracket I, filter	1			

MKF5-600, MKF5-800, MKF5-900

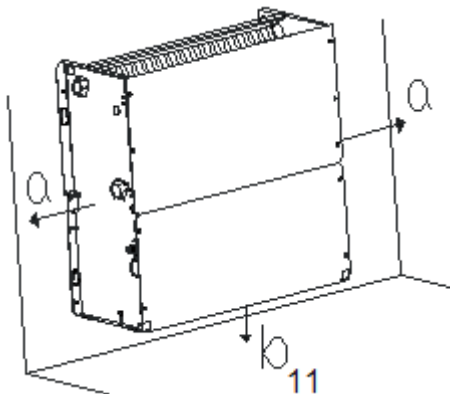
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	16	Water collector	1
2	Holder for fan motor	1	17	Cabinet subassembly	1
3	Right volute shell	3	18	Right, cover seat, subassembly	1
4	Left volute shell	3	19	Cabinet bottom subassembly	1
5	Wind wheel	3	20	Air outlet grille subassembly	4
6	Support for bearing	1	21	Left, cover seat, subassembly	1
7	Supporting board for bearing	1	22	Water collecting header	1
8	Bracket III, filter	2	23	Water collecting header	1
9	Bracket II, filter	1	24	Adapter, drain pipe	1
10	Filter	1	25	Link subassembly I, evaporator	1
11	Axis	1	26	Evaporator subassembly	1
12	Coupling	1	27	Link subassembly II, evaporator	1
13	Asynchronism motor	1			
14	Bracket IV, filter	2			
15	Bracket I, filter	1			

12. Installation

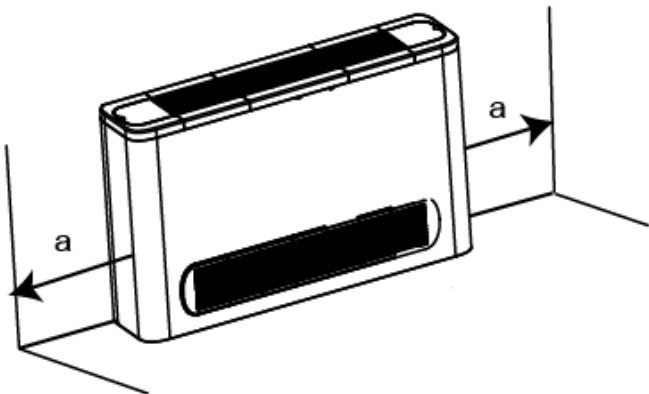
■ Installation space

The unit may be mounted vertically on the wall or standing on the floor, provided that the correct clearances for the positioning are maintained.

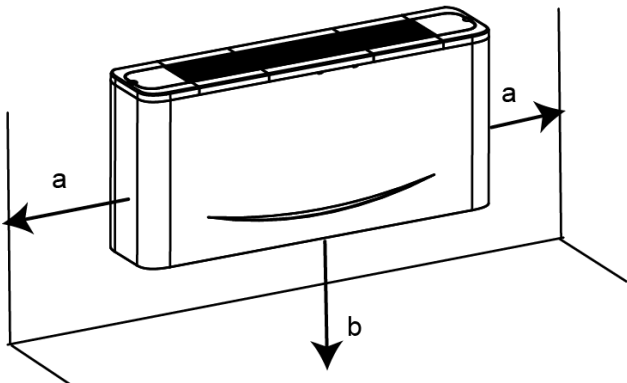
Version III



Version IV



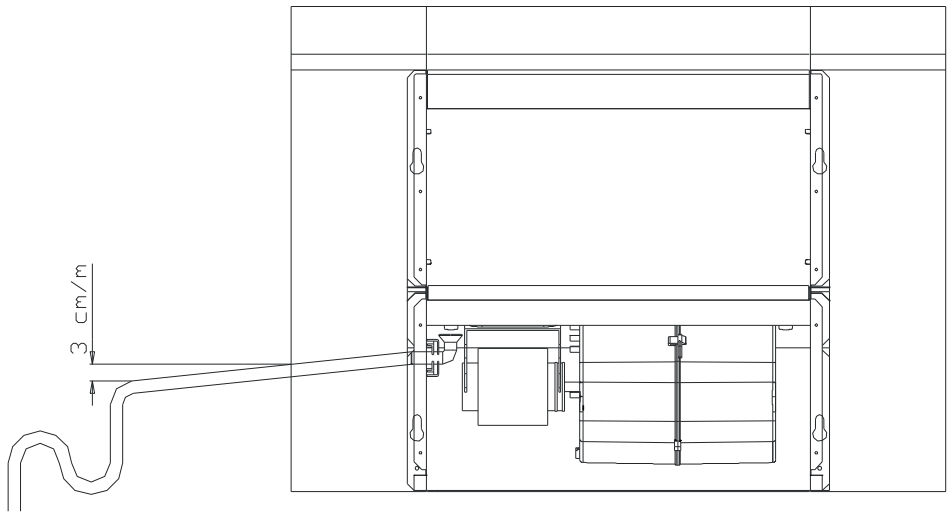
Version V



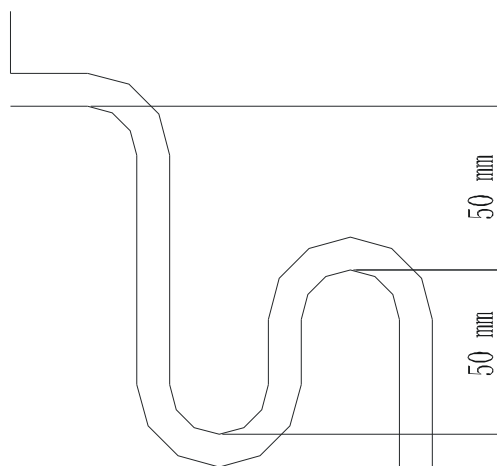
Version	III	IV	V
a (mm)	200	150	150
b (mm)	80	-	80

■ Condensate drainage pipe installation

The condensation drainage system must be set up with an adequate fall, to ensure that the water escapes properly. Following are directions for setting up a proper condensation drainage system.

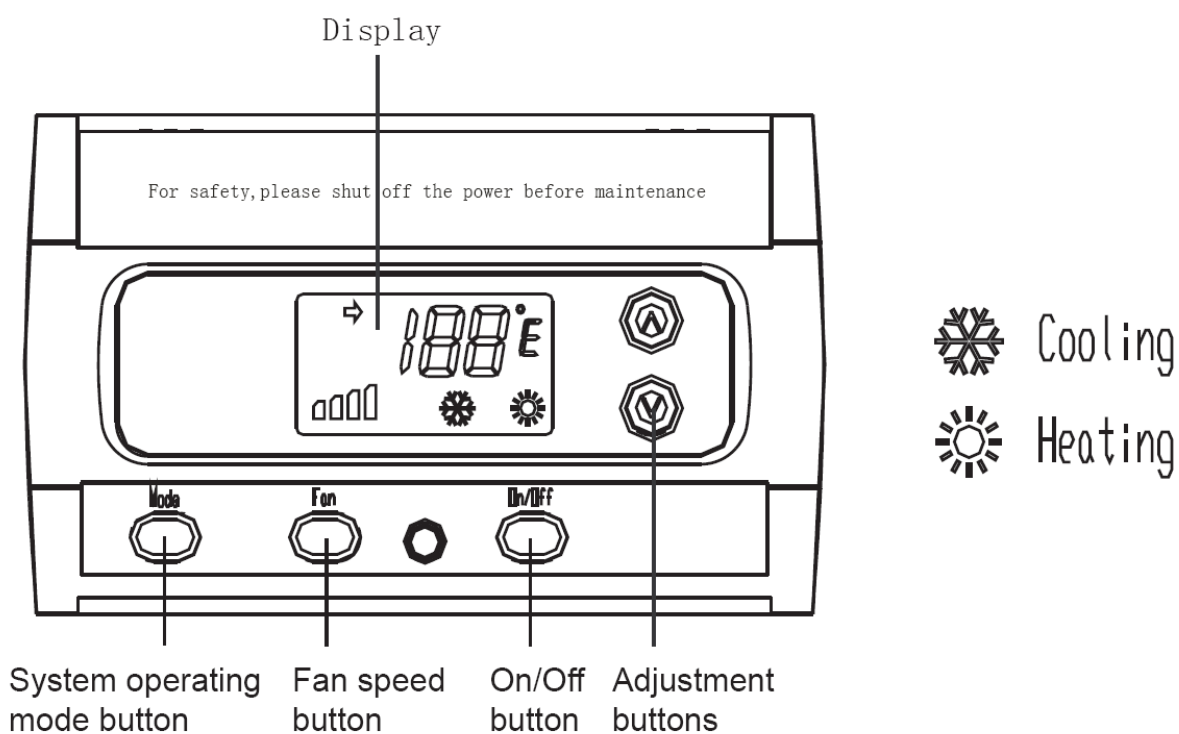


The condensation drainage system must be fitted with a suitable trap to prevent seepage of odors. Following are directions for setting up the trap.



13. Controller

Wired controller: KJR-15B/E(P)



■ Features:

- System operating mode button: heat, cool or fan
- Fan speed button: low, middle or high
- On/off button: on or off
- Temperature display in °F or °C

■ Use condition:

- Electrical range
Input voltage: 220V~; output voltage: 220V~
- Temperature and Humidity range
Temperature: -15°C~+43°C
Humidity: RH40%~RH90%

■ Operation of the key-press

1. Key-press for fan speed
 - It is used to change the fan speed;
 - Press the key continuously, the LCD display the corresponding sign to switch back and forth, as the following order.
2. Key-press for mode

- Press it for select the operation mode;
 - Press the key continuously, the LCD display the corresponding sign, as the figure below.
3. Key-press for on/off
- Press it to select to turn off the unit and FAN mode;
 - These two modes don't display on the LCD.
4. Key-press for "▲" and "▼"
- Except the select Contact surface of temperature pattern, when you press the "▲" once, the setting temperature increases progressively 1 degree. When the temperature is up to 30°C, Even if continue to press this key, the setting temperature will not increase any longer.
 - Display when the temperature increases progressively as the following order:

$$8 \rightarrow 9 \rightarrow 10 \dots \rightarrow 32 (^{\circ}\text{C})$$

$$46 \rightarrow 48 \rightarrow 50 \dots \rightarrow 89 (^{\circ}\text{C})$$
 - Except the Contact surface of temperature pattern select, when you press the "▼" once, the setting temperature decreases progressively 1 degree. When the temperature falls to 46 C, Even if continue to press this key, the setting temperature will not decrease any longer.
 - Display when the temperature decreases progressively as the following order:

$$32 \rightarrow 31 \rightarrow 30 \dots \rightarrow 8 (^{\circ}\text{C})$$

$$89 \rightarrow 87 \rightarrow 86 \dots \rightarrow 46 (^{\circ}\text{C})$$
 - After the power is on, press both the "▲" and "▼" for 3 seconds, enter the select
 - Contact surface of Degree Celsius and degree Fahrenheit. Press "▲" and "▼" to select the temperature pattern:

C ↔ F

- At the same time as selection is done, press "▲" or "▼" for 3 seconds, quit the select contact surface of temperature pattern, back to the current temperature display page.
 - Press the "▲" or "▼" for 2 seconds, the numbers keeping get up or get down. If no key has been pressed in 2 seconds, the system will turn back to the current temperature display, the figure "→" will disappear.
5. Explanation of function
- Summarization of controlled objects of each part 3-way valve (quantity:2)
 - In cooling or heating mode, the thermostat Judges whether to send the 3-way valve signal (220V AC) according to the Current and setting temperature. No signal of the 3-way valve is put out when the power is off.
 - Fan motor
In cooling, heating or FAN mode, the fan motor has 3 speeds, optional: HIGH, MIDDLE, LOW (220V/ AC). No signal when the power is off.
 - Thermostat temp sensor(T1)
When check that the input voltage range of the indoor T1 temperature is out of 0.05~4.95V, it is considered that the sensor is open-circuit or short-circuit, the 3-way valve and the fan motor stop. The sensor displays E1, shows that any key is ineffective.
When the voltage recovers in the range of 0.05~4.95V, error E1 released, the 3-way valve and the fan motor signal get back to the former condition, the press-key is effective.

■ Explanation of mode function:

- FAN

Only FAN mode. In this mode, fan motor signal is sent out (optional: HIGH, MIDDLE, LOW);

- COOLING

When in cooling mode, the thermostat Judges whether to send the 3-way valve signal according to the current and setting temperature. the 3-way valve signal will be sent out only in this situation when $T_1(\text{current temperature}) - T_s(\text{setting temperature}) \geq 2^{\circ}\text{C}$.

- HEATING

When in heating mode, the thermostat Judges whether to send the 3-way valve signal according to the current and setting temperature. the 3-way valve signal will be sent out only in this situation when $T_s(\text{setting temperature}) - T_1(\text{current temperature}) \geq 2^{\circ}\text{C}$.

- Stopping the system

When the system is off, the thermostat will not send out 3-way valve signal.

■ Explanation of fan motor function

- In the heating or cooling mode, the corresponding signals in the HIGH, MIDDLE, LOW level should be consistent with the 3-way valve signals of the corresponding pattern.
- Set to FAN mode for FAN only.