

FAN COIL UNIT (FLOOR MOUNTED TYPE)



TRUST AIR CONDITIONING EQUIPMENT CO.
Prepared By: Engineering & R & D Department.

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توجه:

شرکت تراست حق تغییر مشخصات دستگاه ها را در جهت بهبود و ارتقای کیفیت برای خود محفوظ می دارد.

2016

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).

TRUST® 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. Product Schedule

Model	New code	Air	External static	Power supply	Auxiliary Electrical
TMFCF3-300	RB02-TMF3N03R(L)2W/0N	300	12Pa	220~240V-1Ph-50Hz	Without
TMFCF3-400	RB02-TMF3N04R(L)2W/0N	400			
TMFCF3-500	RB02-TMF3N05R(L)2W/0N	500			
TMFCF3-600	RB02-TMF3N06R(L)2W/0N	600			
TMFCF3-800	RB02-TMF3N08R(L)2W/0N	800			
TMFCF4-300	RB02-TMF4N03R(L)2W/1N	300	0Pa	220~240V-1Ph-50Hz	Without
TMFCF4-400	RB02-TMF4N04R(L)2W/1N	400			
TMFCF4-500	RB02-TMF4N05R(L)2W/1N	500			
TMFCF4-600	RB02-TMF4N06R(L)2W/1N	600			
TMFCF4-800	RB02-TMF4N08R(L)2W/1N	800			
TMFCF5-300	RB02-TMF5N03R(L)2W/1N	300	0Pa	220~240V-1Ph-50Hz	Without
TMFCF5-400	RB02-TMF5N04R(L)2W/1N	400			
TMFCF5-500	RB02-TMF5N05R(L)2W/1N	500			
TMFCF5-600	RB02-TMF5N06R(L)2W/1N	600			
TMFCF5-800	RB02-TMF5N08R(L)2W/1N	800			

3. External Appearance



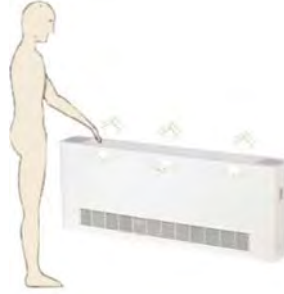
4. Feature

- Flexible for installation, designed for horizontal/vertical, concealed/cabinet application.
- Ultra-thin body, streamlined appearance.

- Air return from the side or below for increased choice flexibility.



- Movable grid. It's easy to install and clean.



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

5. Specifications

Model TMFCF3(4,5)			300
Air Volume	High	m ³ /h	510
		CFM	300
	Med	m ³ /h	430
		CFM	250
	Low	m ³ /h	380
		CFM	220
External static pressure		Pa	F3 models: 12; F4/F5 models: 0.
Cooling capacity		W	2,530
Heating capacity		W	5,640
Power input		W	40
Noise (Hi/Med/Low)		dB(A)	37/34/32
Water flow		L/min	7.3
Water pressure drop		kPa	14.2
Fan motor	Type	\	Low noise 3-speed fan motor
	Model	\	YSK20-4A
	Quantity	\	1
Fan	Type	\	Centrifugal, forward-curved Blades
	Quantity	\	2
Coil	Diameter	mm	Φ9.52
	Max. working pressure	MPa	1.6
	Row	\	2
	Circuit	\	2
Indoor unit F3	Net Dimension (W×H×D)	mm	750×545×212
	Net Weight	kg	20
	Packing Size (W×H×D)	mm	839×639×305
	Gross Weight	kg	23.5
Indoor unit F4(5)	Net Dimension (W×H×D)	mm	1000×572×225
	Net Weight	kg	26(26)
	Packing Size (W×H×D)	mm	1089×683×312
	Gross Weight	kg	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 TMFCF3(4,5)			400	500
Air Volume	Hi	m ³ /h	680	850
		CFM	400	500
	Med	m ³ /h	580	720
		CFM	340	420
	Low	m ³ /h	510	640
		CFM	300	375
External static pressure		Pa	F3 models: 12; F4/F5 models: 0.	
Cooling capacity		W	3,270	4,850
Heating capacity		W	7,220	10,280
Power input		W	46	49
Noise (Hi/Med/Low)		dB(A)	39/36/34	43/40/38
Water flow		L/min	9.4	13.9
Water pressure drop		kPa	9.5	24.6
Fan motor	Type	\	Low noise 3-speed fan motor	
	Model	\	YSK20-4A	YSK20-6
	Quantity	\	1	1
Fan	Type	\	Centrifugal, forward-curved Blades	
	Quantity	\	2	2
Coil	Diameter	mm	Φ9.52	
	Max. working pressure	MPa	1.6	
	Row	\	2	2
	Circuit	\	2	2
Indoor unit F3	Net Dimension (W×H×D)	mm	750×545×212	950×545×212
	Net Weight	kg	20	25
	Packing Size (W×H×D)	mm	839×639×305	1039×639×305
	Gross Weight	kg	23.5	29
Indoor unit F4(5)	Net Dimension (W×H×D)	mm	1000×572×225	1200×572×225
	Net Weight	kg	26(26)	32.5(35)
	Packing Size (W×H×D)	mm	1089×683×312	1289×683×312
	Gross Weight	kg	31(31)	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

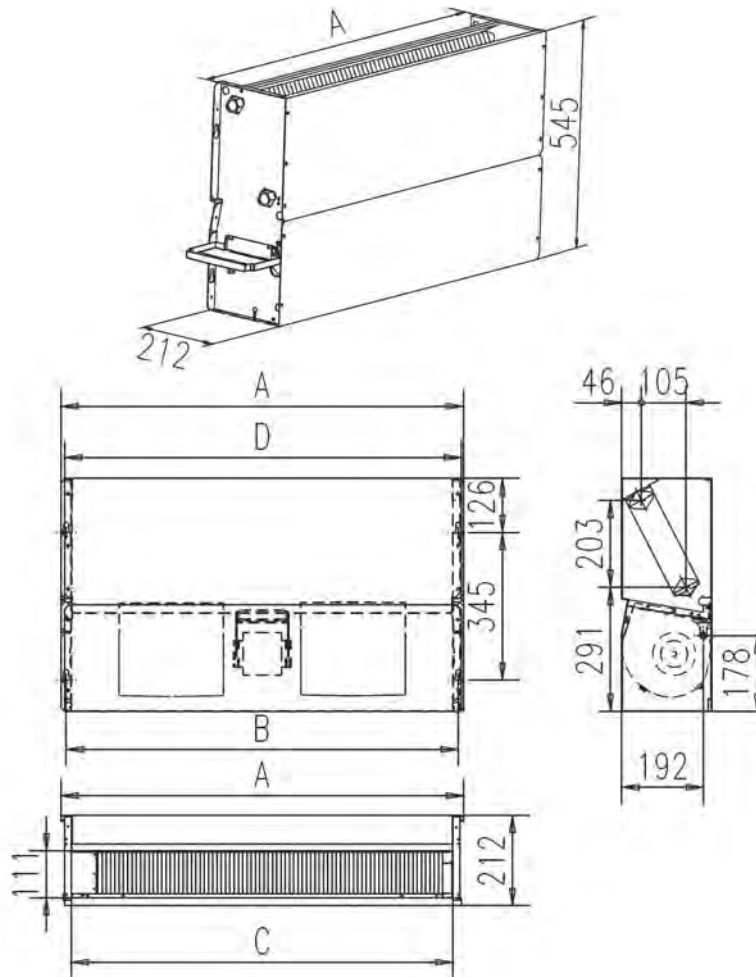
Model TMFCF3(4, 5)			600	800
Air Volume	Hi	m ³ /h	1020	1360
		CFM	600	800
	Med	m ³ /h	870	1160
		CFM	510	680
	Low	m ³ /h	765	1020
		CFM	450	600
External static pressure		Pa	F3 models: 12; F4/F5 models: 0.	
Cooling capacity		W	5,640	6,520
Heating capacity		W	12,240	15,350
Power input		W	63	88
Noise (Hi/Med/Low)		dB(A)	44/41/39	46/43/40
Water flow		L/min	16.2	18.7
Water pressure drop		kPa	11.4	9.5
Fan motor	Type	\	Low noise 3-speed fan motor	
	Model	\	YSK28-4D	YSK28-4E
	Quantity	\	1	1
Fan	Type	\	Centrifugal, forward-curved Blades	
	Quantity	\	3	3
Coil	Diameter	mm	Φ9.52	
	Max. working pressure	MPa	1.6	
	Row	\	2	2
	Circuit	\	4	4
Indoor unit F3	Net Dimension (W×H×D)	mm	1250×545×212	1250×545×212
	Net Weight	kg	32	32
	Packing Size (W×H×D)	mm	1339×639×305	1339×639×305
	Gross Weight	kg	36	36
Indoor unit F4(5)	Net Dimension (W×H×D)	mm	1500×572×225	1500×572×225
	Net Weight	kg	39(36.6)	39(39)
	Packing Size (W×H×D)	mm	1589×683×312	1589×683×312
	Gross Weight	kg	45(42.6)	45(45)
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.

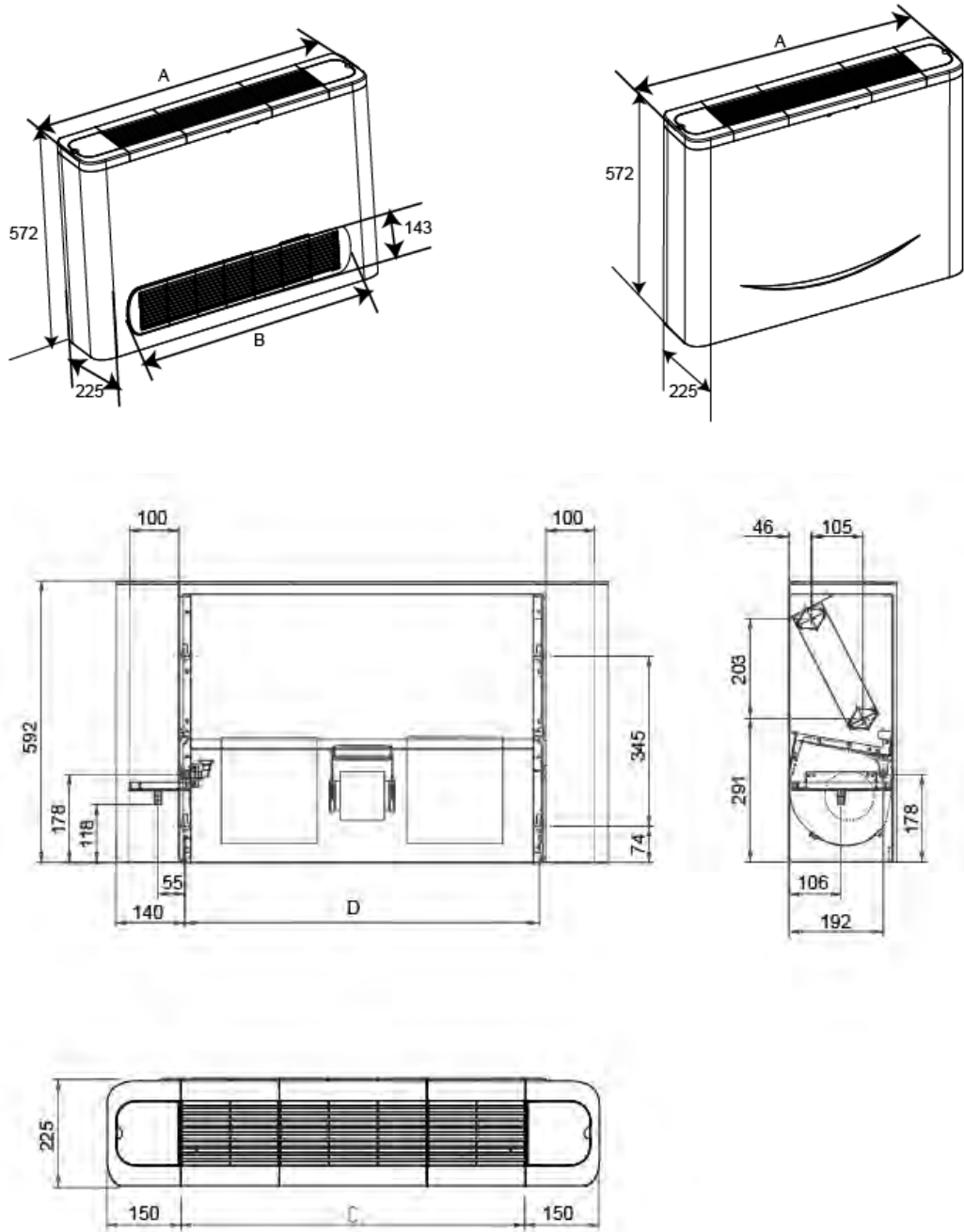
6. Dimension

TMFCF3 type



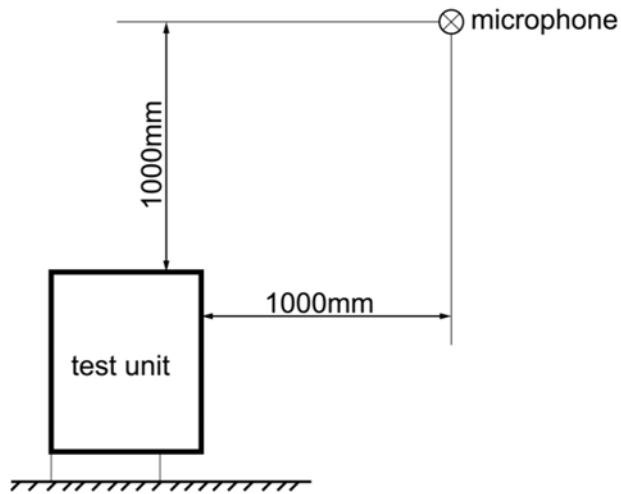
TMFCF3	300	400	500	600	800	900
A (mm)	750	750	950	1250	1250	1250
B (mm)	726	726	926	1226	1226	1226
C (mm)	700	700	900	1200	1200	1200
D (mm)	732	732	932	1232	1232	1232

TMFCF4, TMFCF5 type:

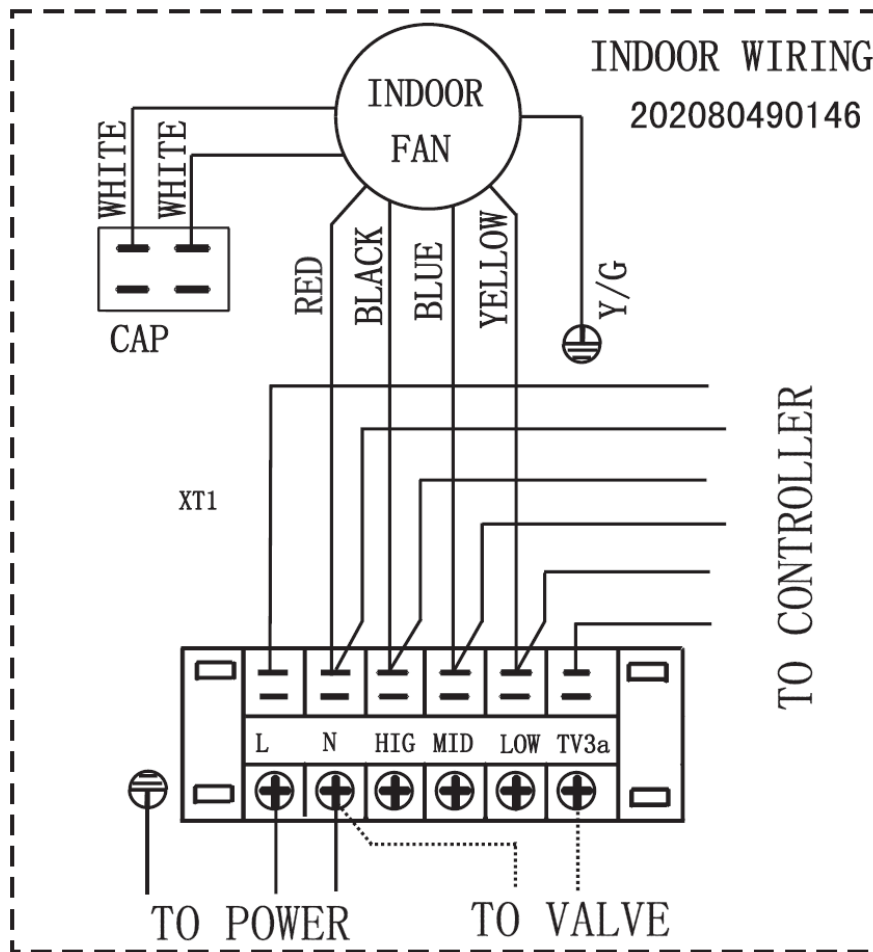


TMFCF4(F5)	300	400	500	600	800
A (mm)	1000	1000	1200	1500	1500
B (mm)	784	784	984	1284	1284
C (mm)	700	700	900	1200	1200
D (mm)	726	726	926	1226	1226

7. Sound Levels



8. Wiring Diagram



9. 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 **SC:** Sensible Cooling Capacity (kW) **WF:** Water Flow (m³/h) **WPD:** Water Pressure Drop (kPa)
 (kW)

Cooling capacity

TMFCF3(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

TMFCF3(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

TMFCF3(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

TMFCF3(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

TMFCF3(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

13	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
	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 modification coefficient table:

Speed	300		400		500		600		800		900	
	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
Med	0.89	0.9	0.86	0.85	0.92	0.91	0.89	0.9	0.9	0.89	0.91	0.9
Low	0.76	0.8	0.73	0.72	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)

TMFCF3(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
TMFCF3(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
TMFCF3(4, 5)-500																								
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	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
TMFCF3(4, 5)-600																								
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	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		
TMFCF3(4, 5)-800																										
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	TH	WF
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		

Heating capacity modification coefficient table:

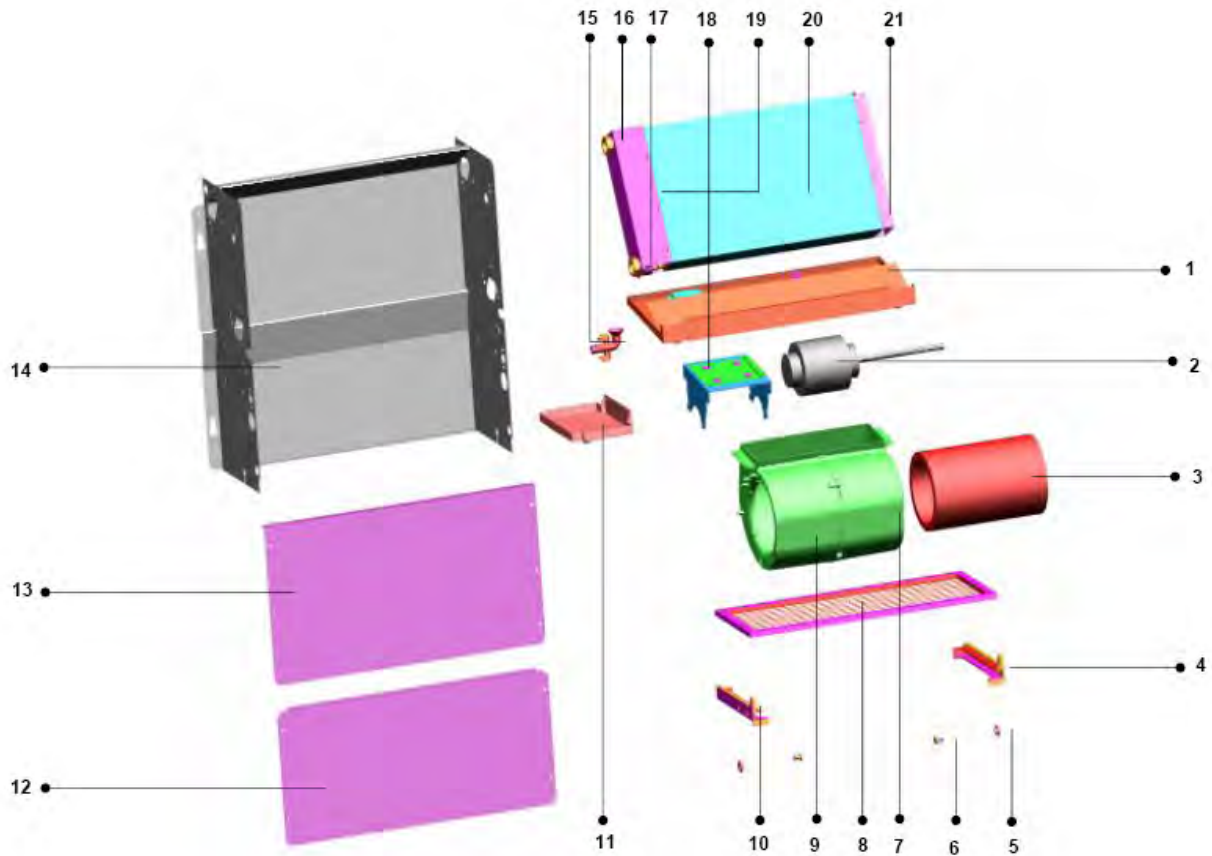
Speed	200	300	400	500	600	800	1000	1200	1400
	TH	TH	TH	TH	TH	TH	TH	TH	TH
High	1	1	1	1	1	1	1	1	1
Med	0.92	0.92	0.9	0.85	0.9	0.9	0.88	0.88	0.88
Low	0.84	0.85	0.82	0.73	0.76	0.8	0.77	0.76	0.76

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

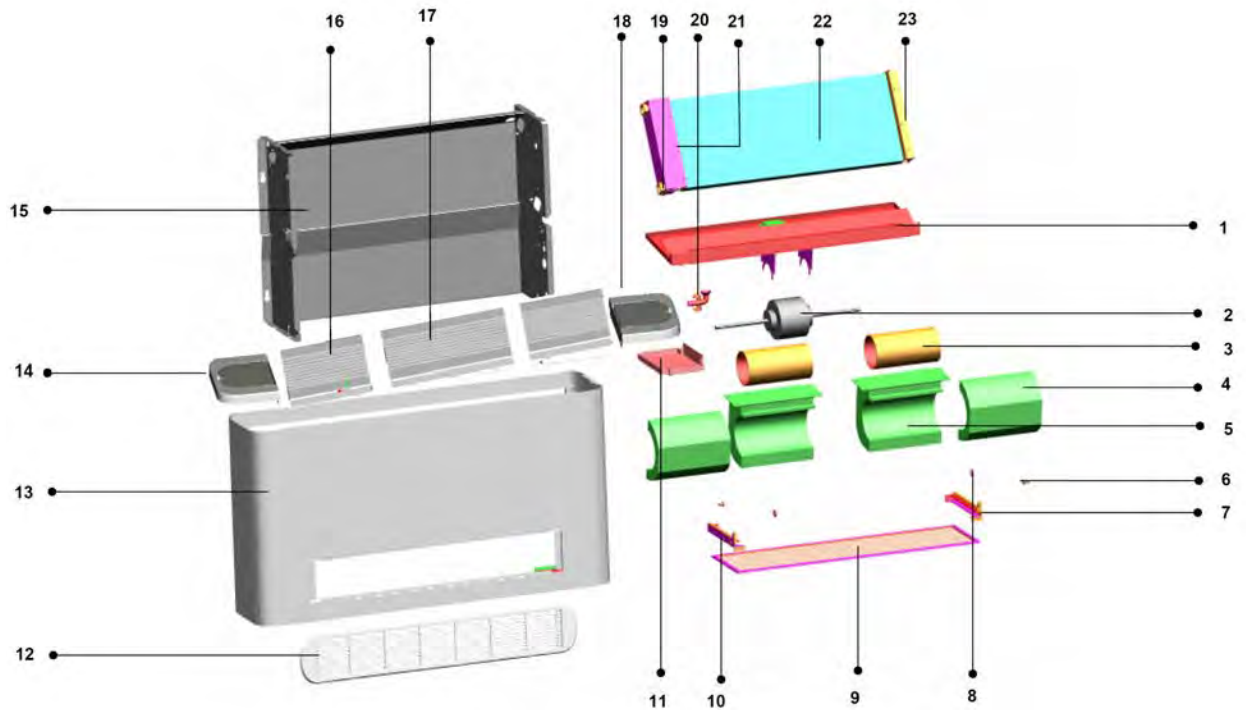
10. Exploded View

TMFCF3-300, TMFCF3-400



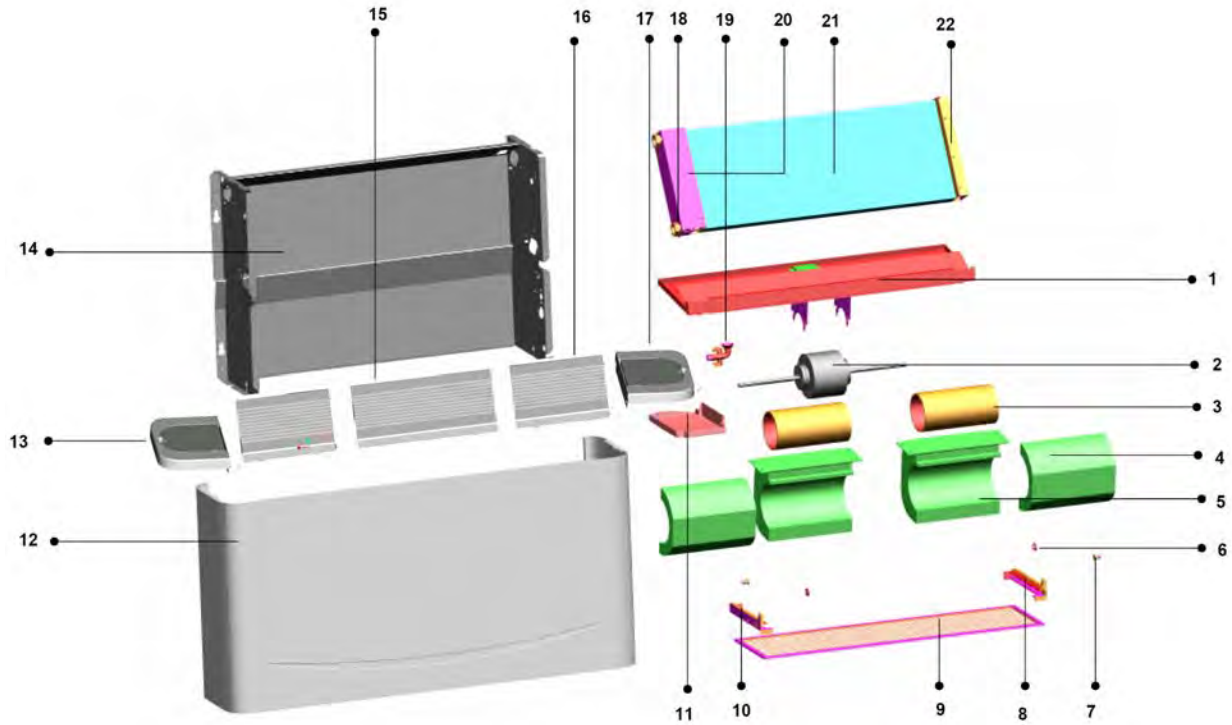
No.		Quantity	No.		Quantity
1	transom subassembly, middle	1	12	top cover I	1
2	Asynchronism motor	1	13	top cover II	1
3	cross flow fan	1	14	cabinet bottom subassembly	1
4	bracket II, filter	1	15	adapter, drain pipe	1
5	bracket III, filter	2	16	water tank	1
6	bracket IV, filter	2	17	water tank	1
7	right, 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			

TMFCF4-300, TMFCF4-400

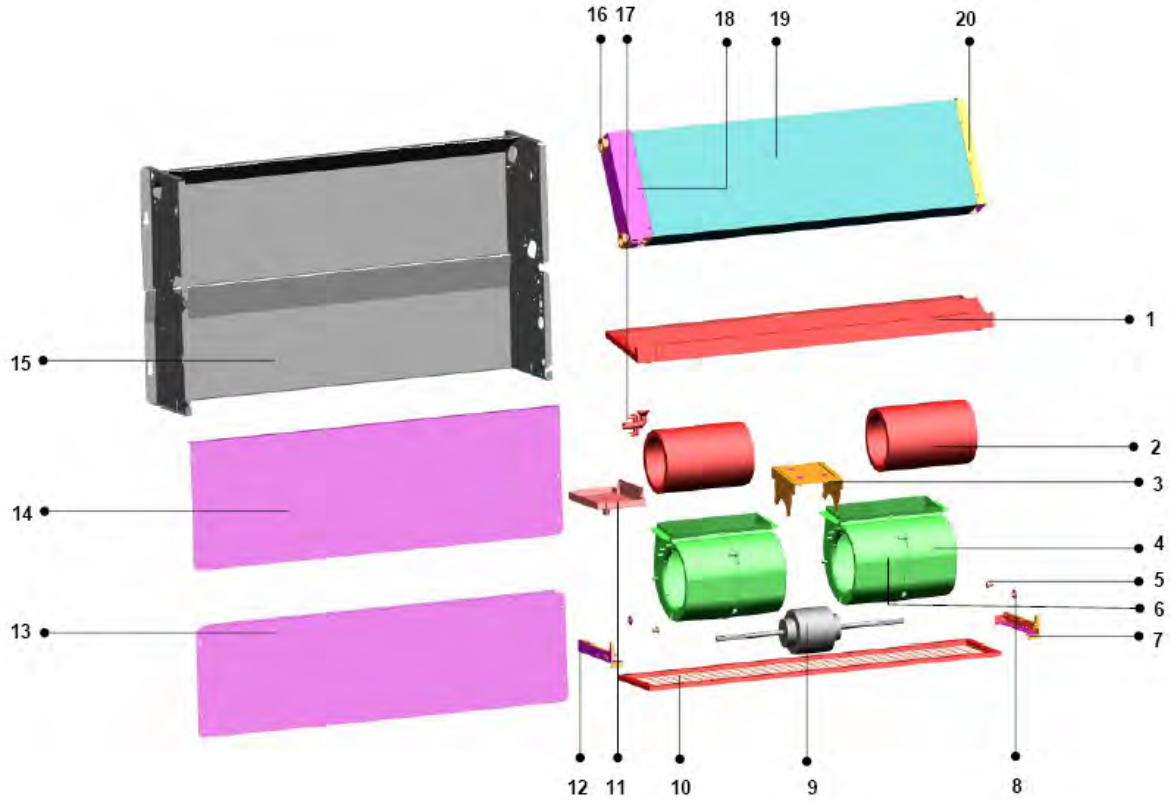


No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	14	Right, cover seat, subassembly	1
2	Asynchronism motor	1	15	Cabinet bottom subassembly	1
3	Wind wheel	2	16	Air outlet grille subassembly	2
4	Volute shell, up half	1	17	Air outlet grille subassembly	1
5	Volute shell, below half	2	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			

TMFCF5-300, TMFCF5-400

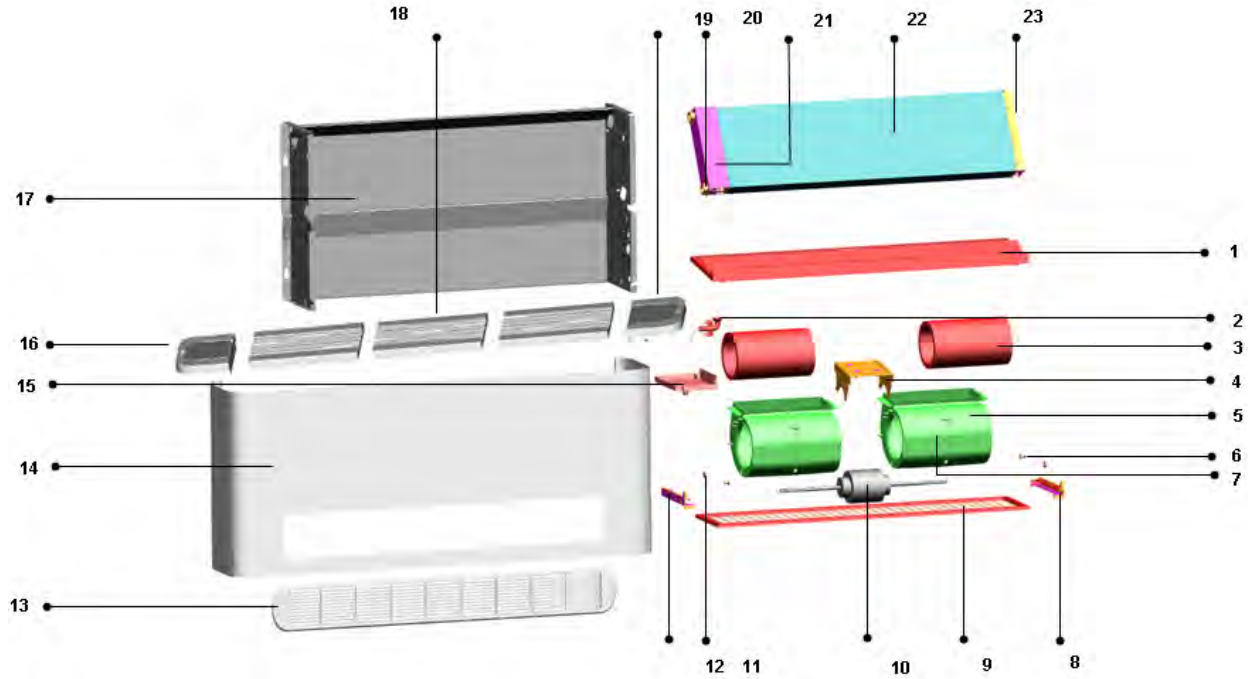


No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	13	Right, cover seat, subassembly	1
2	Asynchronism motor	1	14	Cabinet bottom subassembly	1
3	Wind wheel	2	15	Air outlet grille subassembly	1
4	Volute shell, up half	1	16	Air outlet grille subassembly	2
5	Volute shell, below half	2	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			



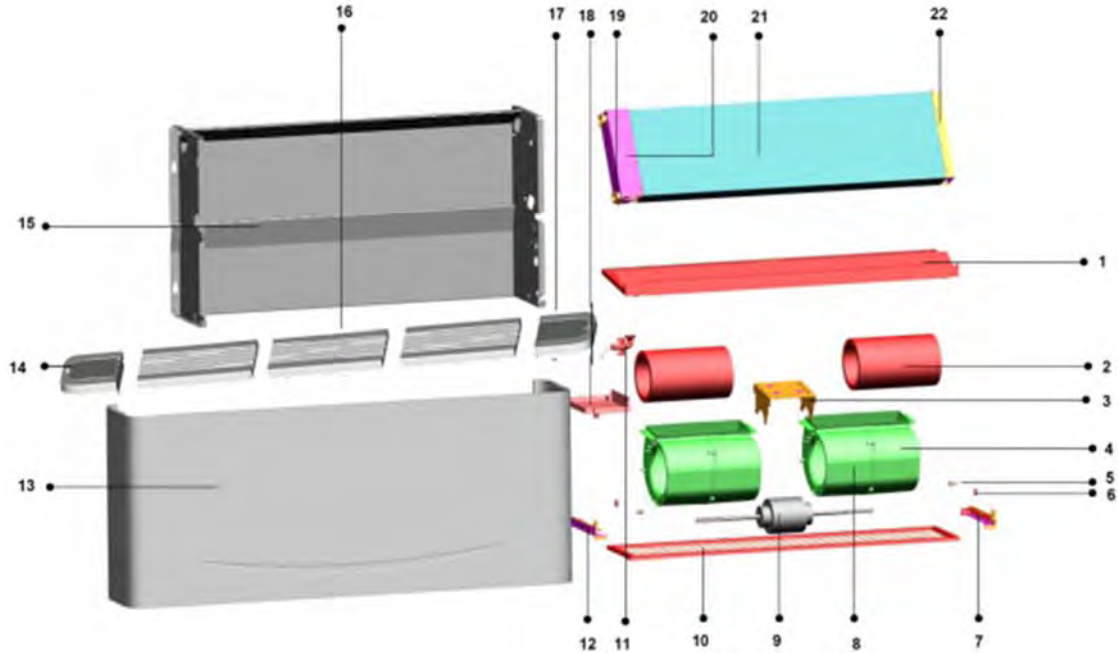
No.		Quantity	No.		Quantity
1	transom subassembly, middle	1	12	bracket I, filter	1
2	cross flow fan	2	13	top cover I	1
3	motor mounting bracket	1	14	top cover II	1
4	right, scroll	2	15	cabinet bottom subassembly	1
5	bracket IV, filter	2	16	water tank	2
6	left, scroll	2	17	adapter, drain pipe	1
7	bracket 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			

TMFCF4-500



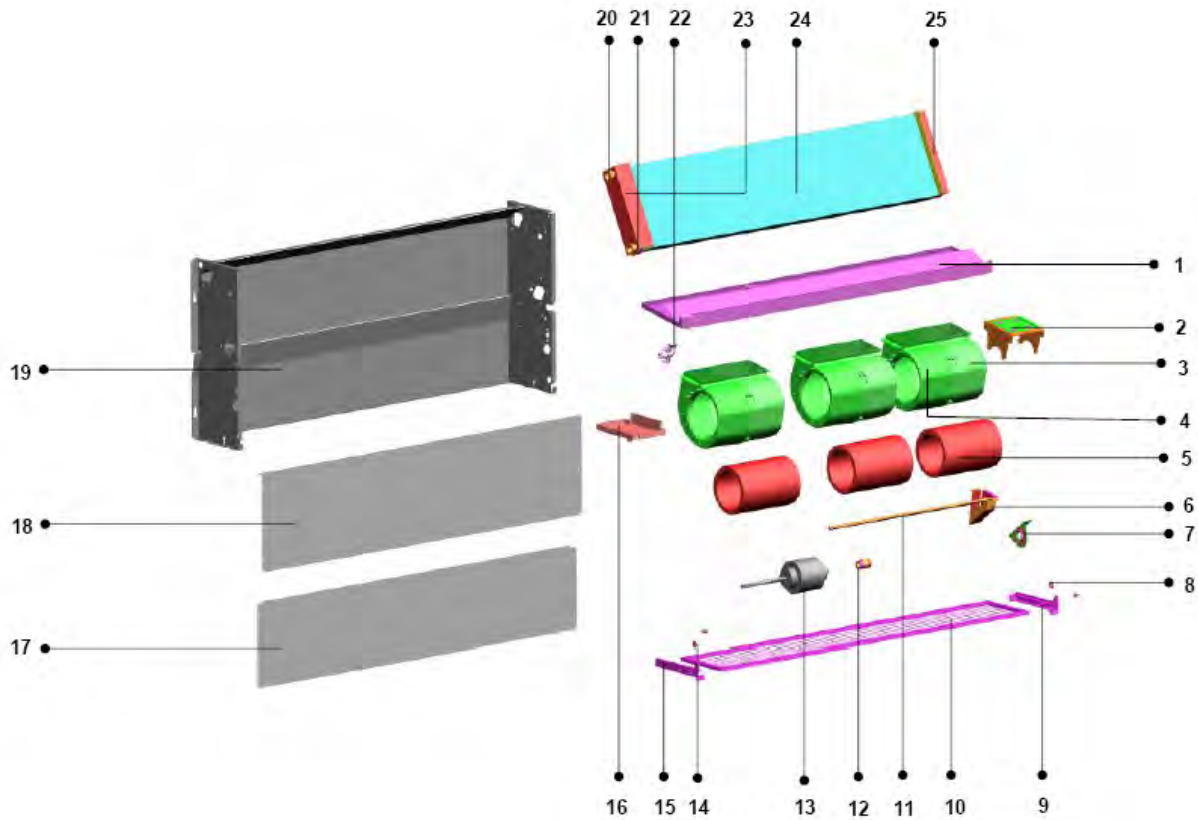
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	13	Shutter subassembly, air inlet	1
2	Adapter, drain pipe	1	14	Cabinet subassembly	1
3	Wind wheel	2	15	Water collector	1
4	Holder for fan motor	1	16	Right, cover seat, subassembly	1
5	Right volute shell	2	17	Cabinet bottom subassembly	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			

TMFCF5-500



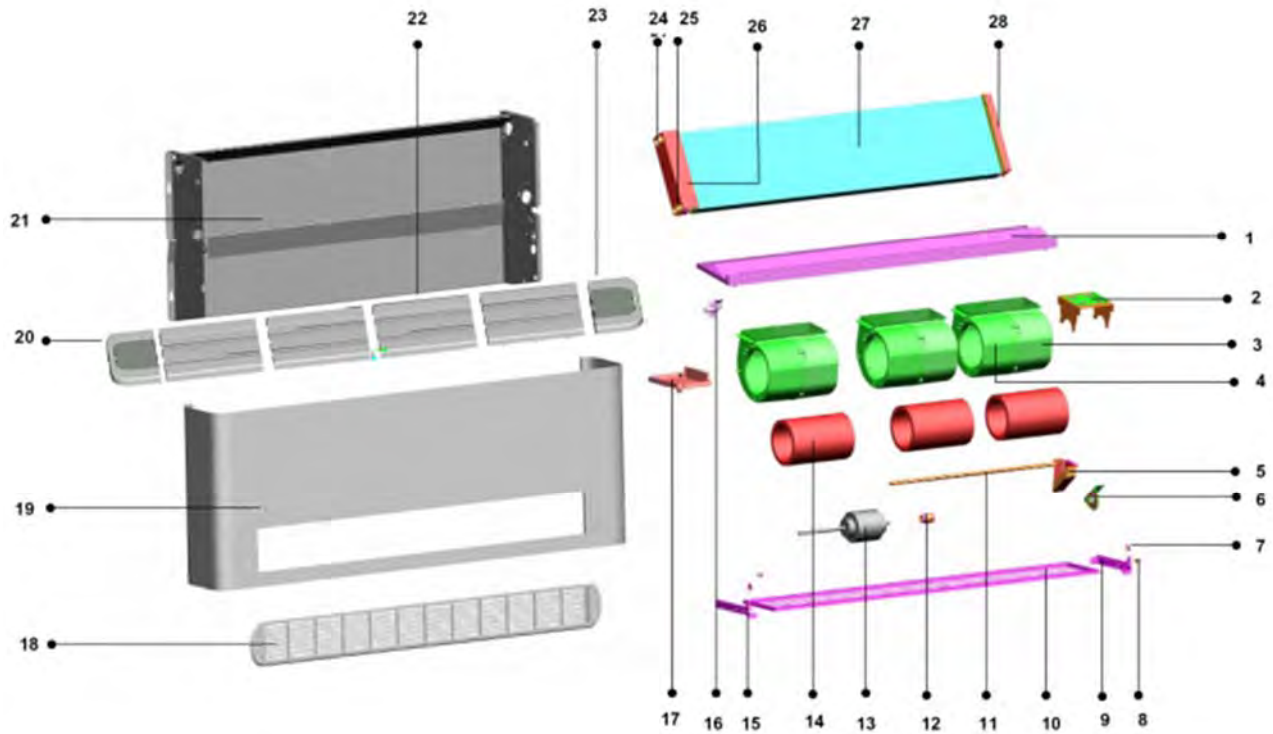
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Middle beam weldment	1	13	Cabinet subassembly	1
2	Wind wheel	2	14	Right, cover seat, subassembly	1
3	Holder for fan motor	1	15	Cabinet bottom subassembly	1
4	Right volute shell	2	16	Air outlet grille subassembly	3
5	Bracket IV, filter	2	17	Left, cover seat, 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			

TMFCF3-600, TMFCF3-800



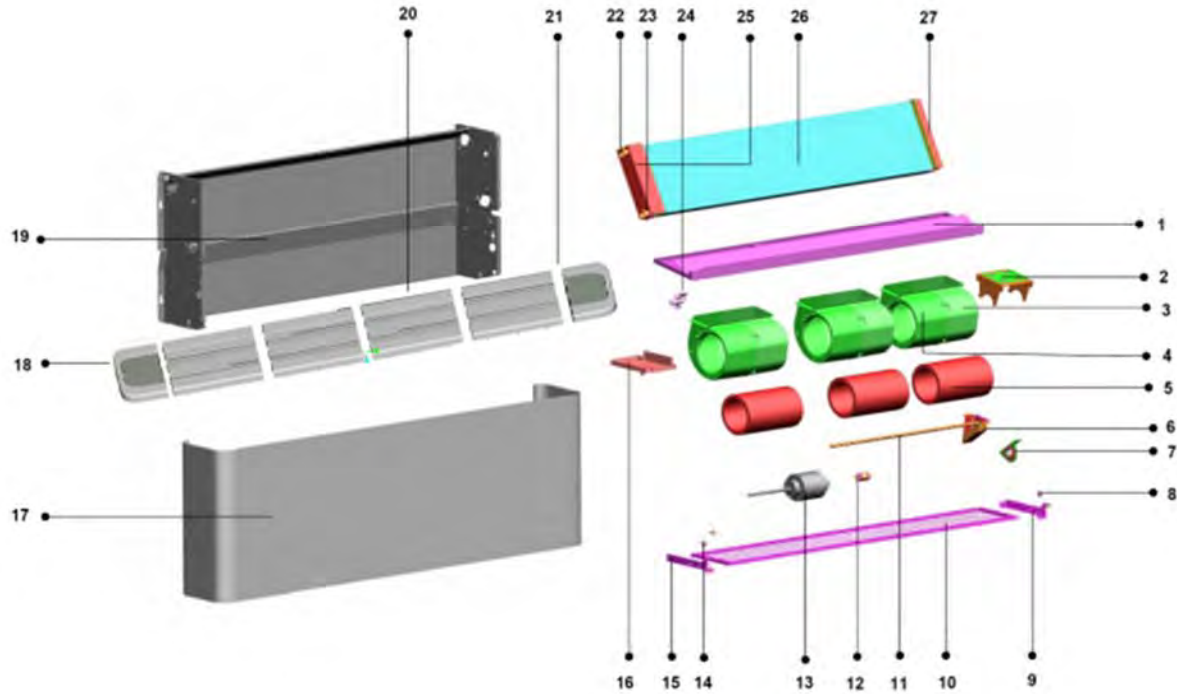
No.		Quantity	No.		Quantity
1	Transom subassembly, middle	1	15	Bracket I, filter	1
2	Motor mounting bracket	1	16	Drip tray	1
3	Right, scroll	3	17	Top cover I	1
4	Left, scroll	3	18	Top cover II	1
5	Cross flow fan	3	19	Cabinet bottom subassembly	1
6	Support for bearing	1	20	Water tank	1
7	Bracket, bearing	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			

TMFCF4-600, TMFCF4-800



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			

TMFCF5-600, TMFCF5-800



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			



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برند برتر در اولین جشنواره بین المللی
برترین نام و نشان های تجاری ایران

