

FAN COIL UNIT

(ONE WAY CASSETTE)



(New Design)

TRUST New Codes:

Old Model	New Code
TMFCC1-300	RB02-TMC1N03L2R/1N
TMFCC1-400	RB02-TMC1N04L2R/1N

توجه:

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

2013-07

The Second Generation Of One-way Cassette FCU

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1. Features

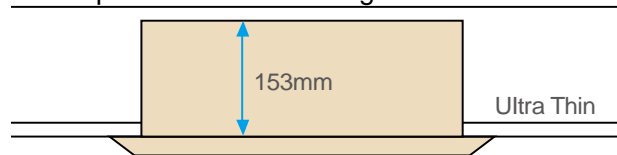
1.1 New panel

---- The panel has digital display function, which can show temperature and warning message.



1.2 Compact design

---- Slim body needs only 153 mm space above the ceiling.

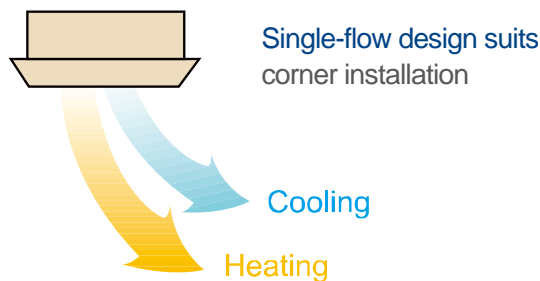


1.3 Improved air quality

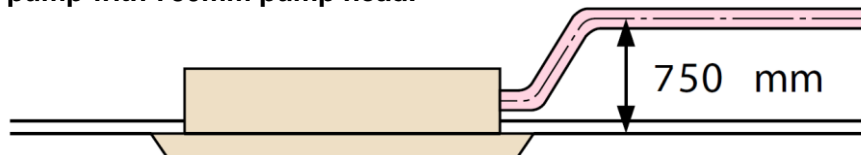
---- Two folding type air filters and two standard formaldehyde absorption nets improve the air quality greatly. The design of a long air outlet and a wide guide fan blade, which enlarge the range of flow transportation.

1.4 Auto swing

---- Auto swing mechanism guarantees even airflow distribution and a better room temperature balance.



1.5 Built-in water pump with 750mm pump head.



1.6 Prevent condensation in air outlet by the patent of a new structure design

--- By the adoption of this structure, the guide wing will always wrapped up by dry cold air, cutting off the contact route of moist hot air and the cold guide wing. As a result, the water vapour in moist hot air gets no chance to condense in the surface of guide wing.

2. Specifications

Model			TMFCC1-300	TMFCC1-400	
Air flow	H/M/L	m ³ /h	510/450/400	630/560/500	
	H/M/L	CFM	300/270/240	370/330/300	
Cooling	Capacity	H/M/L	kW	3.04/2.79/2.56	3.79/3.58/3.38
	Water flow rate	H	l/h	520	650
	Water pressure drop	H	kPa	14	20
Heating	Capacity	H/M/L	kW	5.13/4.69/4.04	6.41/5.86/5.11
	Water pressure drop	H	kPa	9	16
Power supply		V/Ph/Hz	220-240/1/50		
Power input	H	W	32	40	
Electric heater capacity		W	750	750	
Sound pressure level	H/M/L	dB(A)	36/34//32	37/35/34	
Fan motor	Type		Low noise 4-speed fan motor		
	Quantity		1		
Fan	Type		Cross blow fan		
	Quantity		1		
Coil	Row		2		
	Max. Working pressure		MPa	1.6	
	Diameter		mm	Φ7	
Panel	Dimensions	W×H×D	mm	1180x25x465	
	Packing	W×H×D	mm	1232x107x517	
	Net weight		Kg	3.5	
	Gross weight		Kg	5.2	
Body	Dimensions	W×H×D	mm	1053x170x425	
	Net weight	*/A	Kg	12.8/13.1	
	Packing	W×H×D	mm	1155x245x490	
	Gross weight	*/A	Kg	16.6/17.1	
Pipe connection	Water inlet/outlet pipe		Inch	G1/2	
	Drain pipe		mm	ODΦ25	

Notes: 1. H-high speed; M-medium speed; L-low speed.

2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°CDB/19°CWB.

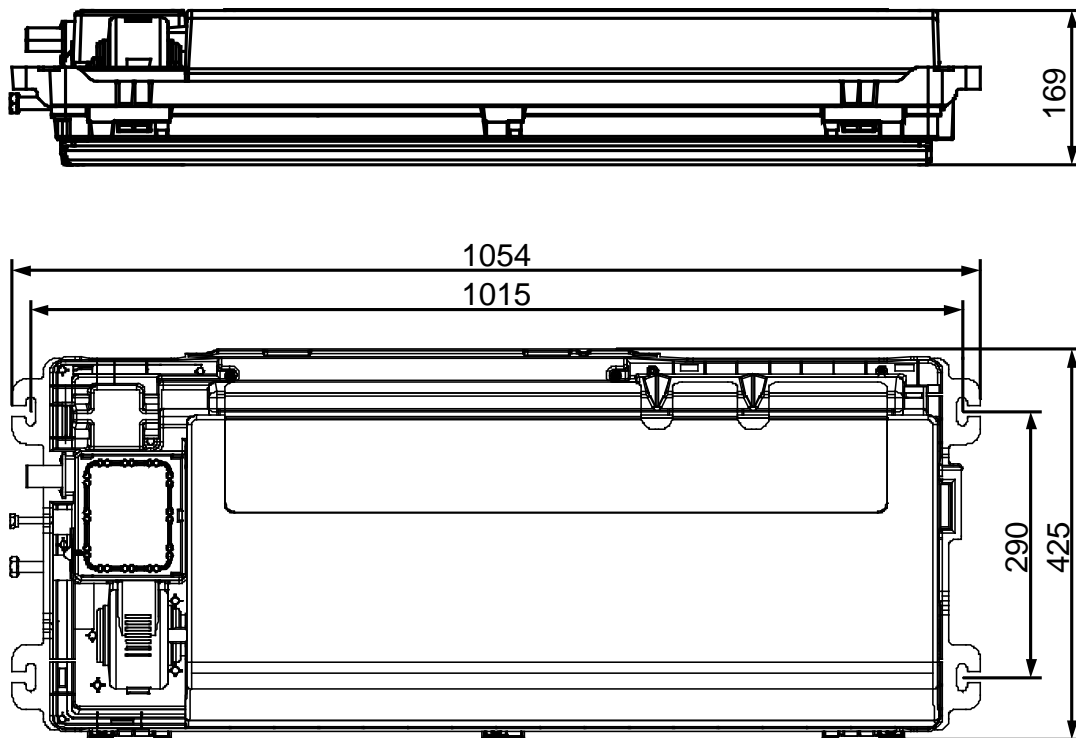
Heating conditions: entering water 50°C, entering air temperature 20°CDB, the same water flow as the cooling conditions.

3. The noise is tested in the semi-anechoic test room.

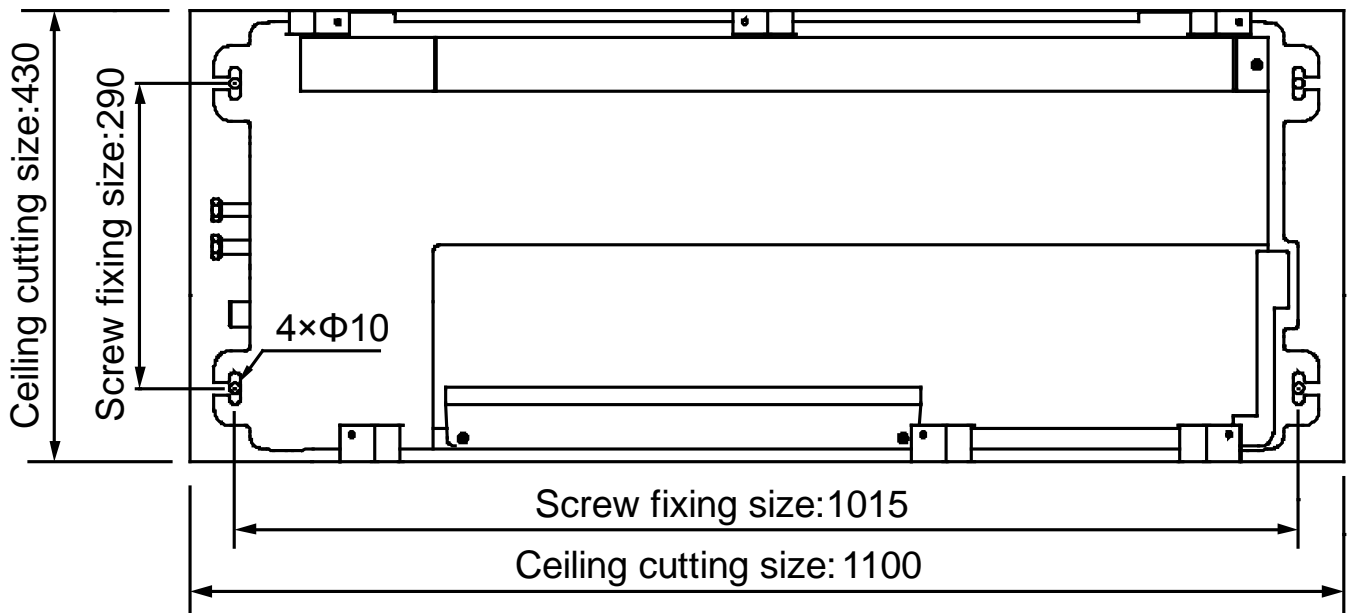
4.*for models without electric heater, A for models with electric heater.

5. TMFCC1-400 need to be customized.

3. Dimensions



Please use the installation paper plate to make sure the position of the installation screws.



4. Service Spaces

Please avoid installing in the following places :

A place with flammable gas or material.

A saline place such as a seashore vicinity.

A place with sulphur gas.

A place with oil gas, such as kitchen.

A place with high-humidity air.

An unbearable place.

A place where high-frequency waves are generated.

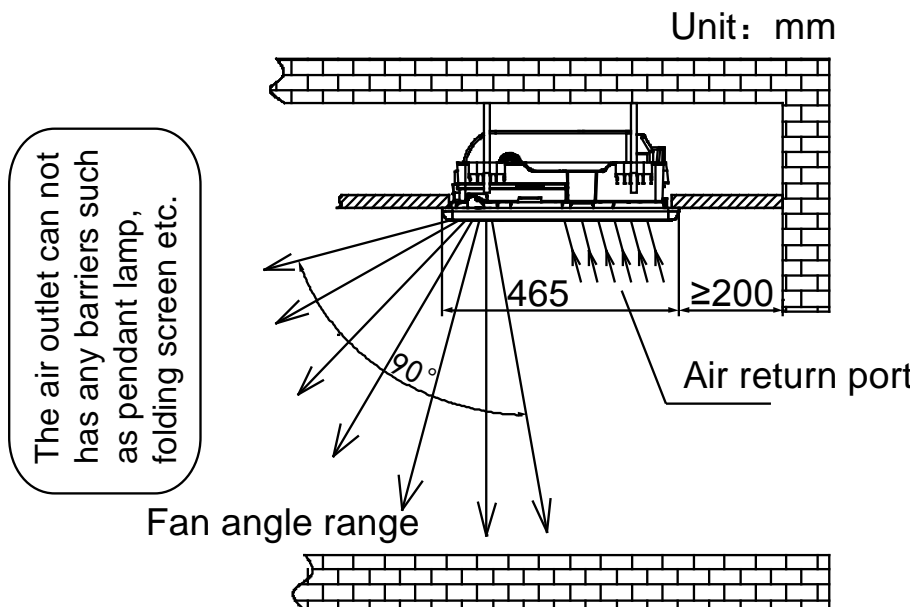
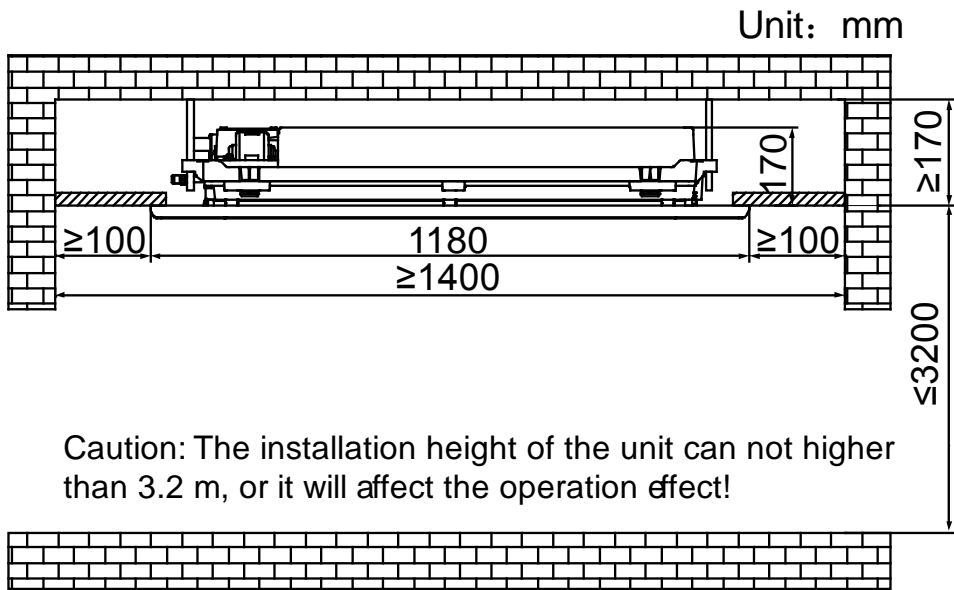
The appliance shall not be installed in the laundry.

Please comply with the related national electric standard to make electric insulation for construction and metal parts of air-conditioner.

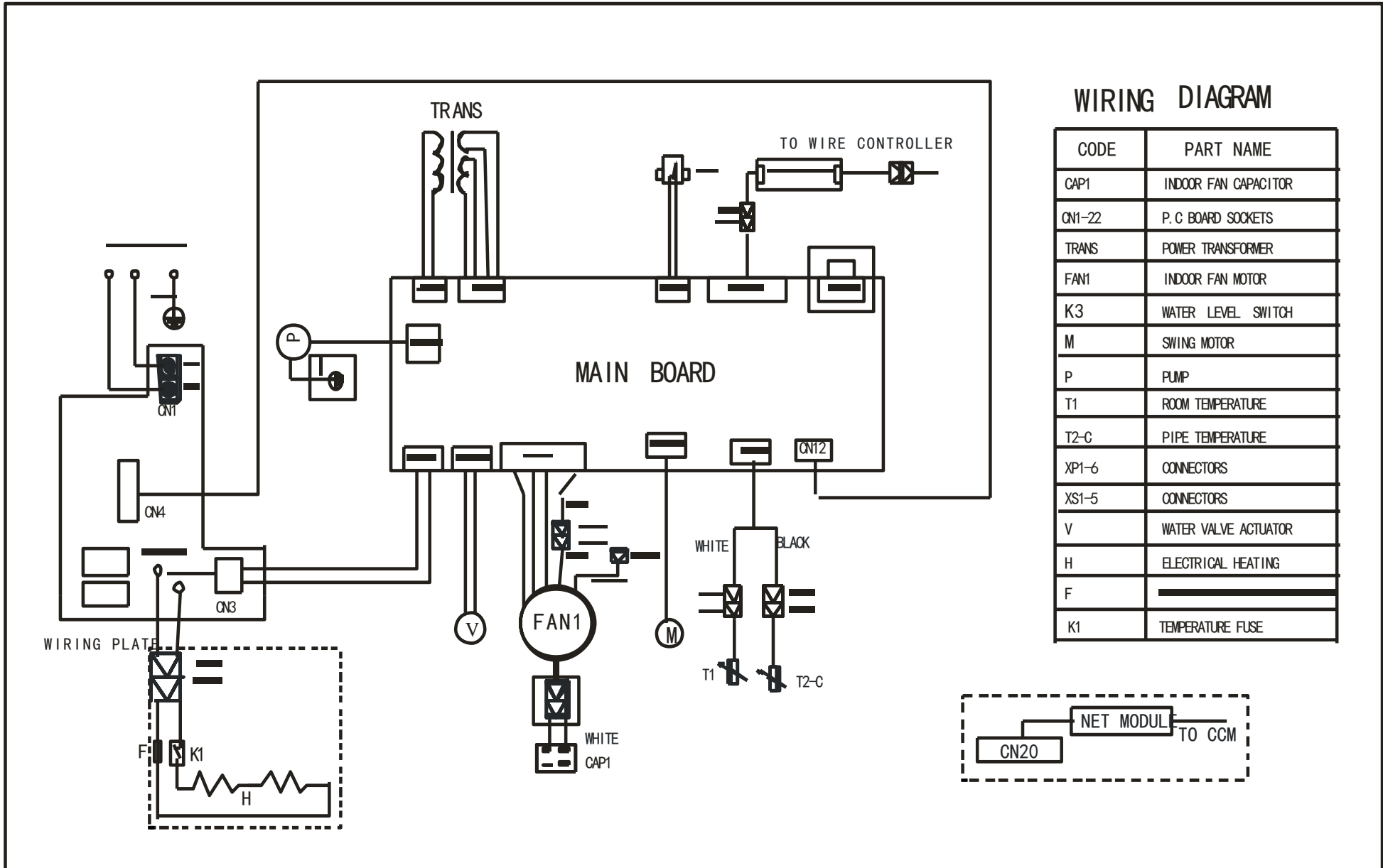
Please choose the place where the ventilation is good.

Ceiling space requires 170mm.

The installation height of the unit can not be higher than 3.2m, or it will affect the operation effect.



5. Wiring Diagrams



6. Capacity Tables

6.1 Cooling

Remark:

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)

300																					
Inlet Water Temp.	Δt	Air inlet condition																			
		DB:21 WB:15				DB:26.7 WB:19.4				DB:27 WB:19				DB:29 WB:21				DB:33 WB:25			
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
5	3	2.51	1.82	0.72	19.50	3.87	2.33	1.11	46.32	3.79	2.43	1.09	44.45	4.24	2.22	1.21	55.43	5.70	2.76	1.63	100.39
	4	2.36	1.72	0.51	9.71	3.72	2.26	0.80	24.08	3.66	2.36	0.79	23.30	4.07	2.15	0.88	28.78	5.53	2.68	1.19	53.05
	5	2.18	1.65	0.38	5.30	3.56	2.18	0.61	14.10	3.49	2.29	0.60	13.55	3.91	2.08	0.67	17.02	5.35	2.63	0.92	31.83
	6	2.00	1.58	0.29	3.07	3.40	2.12	0.49	8.94	3.34	2.21	0.48	8.60	3.74	1.99	0.54	10.81	5.22	2.54	0.75	21.03
	7	1.79	1.48	0.22	1.82	3.24	2.02	0.40	5.94	3.16	2.14	0.39	5.67	3.58	1.91	0.44	7.28	5.04	2.46	0.62	14.43
	8	1.52	1.39	0.16	1.01	3.06	1.96	0.33	4.07	3.00	2.04	0.32	3.91	3.44	1.85	0.37	5.14	4.90	2.45	0.53	10.42
6	3	2.27	1.72	0.65	15.94	3.65	2.24	1.05	41.22	3.57	2.34	1.02	39.36	4.02	2.12	1.15	49.95	5.48	2.68	1.57	92.82
	4	2.11	1.64	0.45	7.73	3.51	2.16	0.75	21.38	3.43	2.26	0.74	20.38	3.86	2.05	0.83	25.88	5.31	2.59	1.14	48.92
	5	1.95	1.56	0.34	4.22	3.34	2.08	0.57	12.38	3.27	2.19	0.56	11.90	3.71	1.97	0.64	15.27	5.13	2.50	0.88	29.27
	6	1.75	1.49	0.25	2.36	3.18	2.02	0.46	7.81	3.11	2.11	0.45	7.44	3.52	1.89	0.50	9.58	5.00	2.41	0.72	19.30
	7	1.54	1.39	0.19	1.34	3.01	1.93	0.37	5.15	2.94	2.05	0.36	4.90	3.36	1.81	0.41	6.42	4.83	2.37	0.59	13.20
	8	1.30	1.30	0.14	0.73	2.83	1.84	0.30	3.48	2.77	1.96	0.30	3.32	3.23	1.74	0.35	4.53	4.68	2.29	0.50	9.52
7	3	2.03	1.61	0.58	12.73	3.41	2.13	0.98	35.96	3.34	2.24	0.96	34.40	3.79	2.02	1.09	44.24	5.22	2.54	1.50	84.12
	4	1.86	1.55	0.40	6.04	3.27	2.06	0.70	18.60	3.18	2.17	0.68	17.61	3.64	1.95	0.78	22.96	5.09	2.50	1.09	44.96
	5	1.68	1.48	0.29	3.15	3.11	1.98	0.53	10.72	3.04	2.09	0.52	10.27	3.46	1.87	0.60	13.31	4.91	2.41	0.85	26.83
	6	1.48	1.40	0.21	1.70	2.94	1.93	0.42	6.69	2.89	2.02	0.41	6.45	3.30	1.79	0.47	8.42	4.78	2.32	0.69	17.64
	7	1.29	1.29	0.16	0.94	2.79	1.84	0.34	4.40	2.69	1.96	0.33	4.11	3.13	1.72	0.38	5.55	4.61	2.24	0.57	12.03
	8	1.10	1.10	0.12	0.52	2.60	1.77	0.28	2.94	2.52	1.86	0.27	2.75	3.00	1.65	0.32	3.91	4.42	2.23	0.43	6.84
8	3	1.78	1.53	0.51	9.79	3.18	2.04	0.91	31.22	3.11	2.14	0.89	29.78	3.56	1.91	1.02	39.07	5.00	2.46	1.43	77.20
	4	1.61	1.48	0.35	4.48	3.04	1.97	0.65	16.05	2.95	2.09	0.63	15.09	3.39	1.85	0.73	19.91	4.83	2.37	1.04	40.43
	5	1.42	1.39	0.24	2.24	2.89	1.89	0.50	9.26	2.80	2.00	0.48	8.70	3.24	1.78	0.56	11.68	4.69	2.28	0.81	24.48
	6	1.28	1.28	0.18	1.26	2.70	1.83	0.39	5.62	2.65	1.93	0.38	5.40	3.08	1.69	0.44	7.32	4.52	2.24	0.65	15.75
	7	1.11	1.11	0.14	0.70	2.54	1.75	0.31	3.66	2.46	1.86	0.30	3.43	2.88	1.62	0.35	4.71	4.36	2.15	0.54	10.78
	8	0.74	0.74	0.08	0.24	2.46	1.75	0.26	2.63	2.28	1.78	0.24	2.25	2.77	1.54	0.30	3.32	4.21	2.10	0.45	7.68
9	3	1.52	1.44	0.44	7.15	2.96	1.95	0.85	26.98	2.87	2.04	0.82	25.48	3.32	1.82	0.95	34.04	4.78	2.37	1.37	70.58
	4	1.38	1.38	0.30	3.32	2.79	1.88	0.60	13.52	2.71	1.98	0.58	12.72	3.15	1.75	0.68	17.23	4.61	2.28	0.99	36.84
	5	1.28	1.24	0.22	1.81	2.64	1.80	0.45	7.75	2.56	1.92	0.44	7.27	3.00	1.67	0.52	9.98	4.47	2.19	0.77	22.25
	6	1.12	1.12	0.16	0.97	2.47	1.73	0.35	4.69	2.38	1.86	0.34	4.36	2.84	1.59	0.41	6.22	4.29	2.15	0.61	14.18
	7	0.91	0.91	0.11	0.47	2.28	1.65	0.28	2.95	2.20	1.77	0.27	2.75	2.64	1.52	0.32	3.95	4.14	2.07	0.51	9.72
	8	0.64	0.64	0.07	0.18	2.13	1.62	0.23	1.97	1.99	1.71	0.21	1.72	2.54	1.55	0.27	2.79	3.97	2.02	0.43	6.83
10	3	1.34	1.34	0.38	5.56	2.71	1.85	0.78	22.69	2.60	1.97	0.75	20.89	3.09	1.72	0.89	29.44	4.56	2.24	1.31	64.25
	4	1.23	1.23	0.27	2.64	2.54	1.78	0.55	11.24	2.46	1.90	0.53	10.48	2.91	1.65	0.63	14.69	4.37	2.19	0.94	33.21
	5	1.10	1.10	0.19	1.35	2.38	1.72	0.41	6.28	2.28	1.84	0.39	5.76	2.75	1.58	0.47	8.43	4.24	2.11	0.73	19.96
	6	0.94	0.94	0.14	0.69	2.22	1.65	0.32	3.79	2.11	1.77	0.30	3.45	2.58	1.50	0.37	5.12	4.05	2.06	0.58	12.68
	7	0.60	0.60	0.07	0.20	2.02	1.57	0.25	2.32	1.93	1.71	0.24	2.10	2.41	1.43	0.30	3.29	3.87	1.97	0.48	8.51
	8	/	/	/	/	1.92	1.61	0.21	1.59	1.67	1.67	0.18	1.21	2.31	1.46	0.25	2.32	3.72	1.90	0.40	6.01
11	3	1.18	1.18	0.34	4.33	2.45	1.76	0.70	18.50	2.36	1.88	0.68	17.19	2.84	1.63	0.81	24.87	4.30	2.15	1.23	57.17
	4	1.08	1.08	0.23	2.04	2.29	1.70	0.49	9.14	2.20	1.81	0.47	8.42	2.68	1.56	0.58	12.47	4.13	2.10	0.89	29.59
	5	0.94	0.94	0.16	0.98	2.12	1.64	0.36	4.99	2.02	1.76	0.35	4.54	2.50	1.49	0.43	6.97	4.00	2.02	0.69	17.75

	6	0.75	0.75	0.11	0.43	1.93	1.57	0.28	2.88	1.86	1.68	0.27	2.66	2.32	1.41	0.33	4.17	3.81	1.97	0.55	11.21
	7	0.50	0.50	0.06	0.14	1.72	1.51	0.21	1.68	1.66	1.66	0.20	1.56	2.14	1.33	0.26	2.60	3.64	1.89	0.45	7.50
	8	/	/	/	/	1.47	1.44	0.16	0.94	1.54	1.54	0.17	1.02	2.06	1.34	0.22	1.83	3.49	1.81	0.37	5.28
	9	/	/	/	/	1.32	1.29	0.13	0.60	1.37	1.37	0.13	0.65	1.97	1.32	0.19	1.34	3.31	1.75	0.32	3.76
12	3	1.04	1.04	0.30	3.36	2.19	1.68	0.63	14.79	2.08	1.81	0.60	13.40	2.58	1.54	0.74	20.54	4.06	2.07	1.16	50.94
	4	0.92	0.92	0.20	1.47	2.03	1.62	0.44	7.13	1.93	1.75	0.41	6.44	2.43	1.47	0.52	10.22	3.89	2.00	0.84	26.29
	5	0.79	0.79	0.14	0.70	1.85	1.57	0.32	3.81	1.75	1.69	0.30	3.42	2.25	1.40	0.39	5.63	3.74	1.93	0.64	15.56
	6	0.48	0.48	0.07	0.18	1.65	1.51	0.24	2.09	1.63	1.60	0.23	2.04	2.06	1.32	0.30	3.28	3.56	1.88	0.51	9.79
	7	0.39	0.39	0.05	0.09	1.46	1.46	0.18	1.20	1.50	1.50	0.18	1.28	1.87	1.25	0.23	1.99	3.39	1.80	0.42	6.50
	8	/	/	/	/	1.31	1.31	0.14	0.74	1.36	1.36	0.15	0.80	1.80	1.24	0.19	1.40	3.22	1.74	0.35	4.51
	9	/	/	/	/	1.14	1.14	0.11	0.44	1.20	1.20	0.11	0.49	1.73	1.24	0.16	1.02	3.03	1.66	0.29	3.14
13	3	0.90	0.90	0.26	2.50	1.91	1.61	0.55	11.29	1.80	1.74	0.52	10.03	2.32	1.45	0.67	16.69	3.80	1.99	1.09	44.65
	4	0.77	0.77	0.17	1.02	1.75	1.54	0.38	5.32	1.69	1.66	0.36	4.95	2.16	1.38	0.46	8.09	3.64	1.91	0.78	23.02
	5	0.55	0.55	0.10	0.34	1.56	1.53	0.27	2.71	1.58	1.58	0.27	2.77	1.99	1.32	0.34	4.39	3.48	1.84	0.60	13.45
	6	0.37	0.37	0.05	0.10	1.42	1.42	0.20	1.56	1.47	1.47	0.21	1.67	1.79	1.25	0.26	2.48	3.30	1.79	0.47	8.40
	7	0.27	0.27	0.03	0.04	1.30	1.30	0.16	0.96	1.35	1.35	0.17	1.04	1.57	1.18	0.19	1.40	3.13	1.72	0.38	5.55
	8	/	/	/	/	1.14	1.14	0.12	0.56	1.20	1.20	0.13	0.63	1.51	1.12	0.16	0.99	2.96	1.63	0.32	3.80
	9	/	/	/	/	0.92	0.92	0.09	0.29	1.00	1.00	0.10	0.34	1.45	1.16	0.14	0.72	2.76	1.57	0.26	2.61
14	3	/	/	/	/	1.60	1.56	0.46	7.95	1.63	1.63	0.47	8.16	2.09	1.57	0.60	13.51	3.56	1.89	1.02	39.13
	4	/	/	/	/	1.50	1.47	0.32	3.89	1.54	1.54	0.33	4.12	1.90	1.48	0.41	6.29	3.39	1.83	0.73	19.92
	5	/	/	/	/	1.50	1.50	0.26	2.49	1.44	1.44	0.25	2.29	1.73	1.42	0.30	3.34	3.20	1.79	0.55	11.41
	6	/	/	/	/	1.50	1.50	0.21	1.73	1.31	1.31	0.19	1.33	1.55	1.32	0.22	1.85	3.04	1.70	0.44	7.15
	7	/	/	/	/	1.13	1.13	0.14	0.73	1.18	1.18	0.14	0.79	1.30	1.14	0.16	0.95	2.87	1.64	0.35	4.67
	8	/	/	/	/	1.50	1.50	0.16	0.97	1.02	1.02	0.11	0.45	1.24	1.14	0.13	0.66	2.68	1.58	0.29	3.12
	9	/	/	/	/	0.63	0.63	0.06	0.14	0.65	0.65	0.06	0.15	1.19	1.13	0.11	0.48	2.48	1.51	0.24	2.10
15	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3.29	1.81	0.94	33.44
	4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3.13	1.75	0.67	16.98
	5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.94	1.71	0.51	9.64
	6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.78	1.64	0.40	5.98
	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.59	1.56	0.32	3.81
	8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.40	1.51	0.26	2.50
	9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.21	1.43	0.21	1.67

400																					
Inlet Water Temp.	Δt	Air inlet condition																			
		DB:21 WB:15				DB:26.7 WB:19.4				DB:27 WB:19				DB:29 WB:21				DB:33 WB:25			
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
5	3	3.13	2.28	0.90	27.44	4.83	2.91	1.38	65.17	4.73	3.04	1.36	62.54	5.28	2.77	1.51	77.99	7.11	3.45	2.04	141.25
	4	2.95	2.15	0.63	13.66	4.64	2.82	1.00	33.89	4.57	2.95	0.98	32.78	5.08	2.68	1.09	40.49	6.89	3.34	1.48	74.64
	5	2.72	2.06	0.47	7.46	4.44	2.72	0.76	19.84	4.35	2.85	0.75	19.06	4.88	2.59	0.84	23.94	6.67	3.28	1.15	44.78
	6	2.49	1.97	0.36	4.33	4.24	2.65	0.61	12.58	4.16	2.76	0.60	12.10	4.67	2.48	0.67	15.20	6.51	3.17	0.93	29.59
	7	2.23	1.84	0.27	2.56	4.04	2.52	0.50	8.36	3.94	2.66	0.48	7.98	4.47	2.38	0.55	10.25	6.29	3.06	0.77	20.30
	8	1.90	1.73	0.20	1.42	3.82	2.44	0.41	5.73	3.74	2.54	0.40	5.50	4.29	2.31	0.46	7.23	6.11	3.05	0.66	14.67
	9	1.54	1.50	0.15	0.73	3.61	2.34	0.34	4.04	3.51	2.46	0.34	3.82	4.12	2.24	0.39	5.26	5.89	2.83	0.56	10.78
6	3	2.83	2.14	0.81	22.43	4.56	2.79	1.31	57.99	4.45	2.91	1.28	55.38	5.02	2.65	1.44	70.28	6.84	3.34	1.96	130.59
	4	2.63	2.04	0.57	10.88	4.38	2.70	0.94	30.09	4.27	2.82	0.92	28.68	4.81	2.56	1.03	36.41	6.62	3.23	1.42	68.83
	5	2.43	1.95	0.42	5.93	4.16	2.60	0.72	17.42	4.08	2.73	0.70	16.74	4.62	2.46	0.79	21.48	6.40	3.12	1.10	41.19
	6	2.18	1.86	0.31	3.33	3.97	2.52	0.57	10.98	3.87	2.63	0.55	10.47	4.39	2.35	0.63	13.47	6.23	3.01	0.89	27.15
	7	1.92	1.73	0.24	1.89	3.76	2.41	0.46	7.25	3.66	2.56	0.45	6.89	4.19	2.25	0.52	9.03	6.02	2.95	0.74	18.58
	8	1.62	1.62	0.17	1.03	3.53	2.29	0.38	4.90	3.45	2.45	0.37	4.68	4.03	2.17	0.43	6.37	5.84	2.86	0.63	13.40
	9	1.08	1.08	0.10	0.36	3.31	2.22	0.32	3.41	3.21	2.34	0.31	3.20	3.87	2.11	0.37	4.64	5.57	2.78	0.53	9.63
7	3	2.53	2.01	0.73	17.92	4.25	2.66	1.22	50.59	4.16	2.79	1.19	48.40	4.72	2.52	1.35	62.25	6.51	3.17	1.87	118.36
	4	2.32	1.94	0.50	8.49	4.08	2.56	0.88	26.16	3.97	2.70	0.85	24.78	4.53	2.43	0.97	32.31	6.34	3.12	1.36	63.26
	5	2.10	1.84	0.36	4.44	3.87	2.47	0.67	15.08	3.79	2.61	0.65	14.45	4.32	2.34	0.74	18.73	6.13	3.01	1.05	37.74
	6	1.85	1.75	0.26	2.39	3.67	2.40	0.53	9.41	3.60	2.52	0.52	9.07	4.12	2.23	0.59	11.85	5.96	2.90	0.85	24.83
	7	1.60	1.60	0.20	1.32	3.47	2.29	0.43	6.19	3.36	2.44	0.41	5.79	3.90	2.14	0.48	7.80	5.74	2.79	0.71	16.92
	8	1.37	1.37	0.15	0.74	3.24	2.21	0.35	4.14	3.14	2.32	0.34	3.86	3.74	2.05	0.40	5.51	5.51	27.57	0.59	11.95
	9	0.94	0.94	0.09	0.28	2.98	2.09	0.29	2.77	2.89	2.23	0.28	2.60	3.59	1.99	0.34	4.01	5.32	26.60	0.51	8.79
8	3	2.22	1.91	0.64	13.78	3.97	2.54	1.14	43.93	3.87	2.66	1.11	41.90	4.44	2.38	1.27	54.97	6.23	3.06	1.79	108.62
	4	2.00	1.85	0.43	6.30	3.79	2.46	0.81	22.58	3.68	2.60	0.79	21.23	4.22	2.31	0.91	28.02	6.02	2.95	1.29	56.89
	5	1.77	1.73	0.30	3.16	3.60	2.35	0.62	13.03	3.49	2.49	0.60	12.25	4.04	2.21	0.70	16.43	5.85	2.84	1.01	34.45
	6	1.59	1.59	0.23	1.77	3.36	2.28	0.48	7.90	3.30	2.41	0.47	7.60	3.84	2.11	0.55	10.30	5.63	2.79	0.81	22.17
	7	1.39	1.39	0.17	0.99	3.17	2.18	0.39	5.15	3.07	2.32	0.38	4.83	3.59	2.02	0.44	6.63	5.44	2.69	0.67	15.17
	8	0.92	0.92	0.10	0.33	3.07	2.18	0.33	3.70	2.84	2.21	0.31	3.17	3.45	1.91	0.37	4.68	5.24	2.62	0.56	10.81
	9	0.82	0.82	0.08	0.21	2.88	2.16	0.28	2.58	2.56	2.15	0.24	2.03	3.31	1.98	0.32	3.40	5.02	2.51	0.48	7.82
9	3	1.90	1.80	0.54	10.06	3.69	2.43	1.06	37.97	3.58	2.55	1.03	35.86	4.14	2.26	1.19	47.90	5.96	2.95	1.71	99.30
	4	1.72	1.72	0.37	4.66	3.48	2.34	0.75	19.02	3.37	2.47	0.73	17.90	3.93	2.18	0.84	24.24	5.74	2.84	1.23	51.83
	5	1.59	1.54	0.27	2.55	3.29	2.24	0.57	10.90	3.19	2.39	0.55	10.23	3.74	2.08	0.64	14.04	5.58	2.73	0.96	31.30
	6	1.39	1.39	0.20	1.36	3.07	2.16	0.44	6.60	2.96	2.31	0.42	6.14	3.54	1.99	0.51	8.75	5.34	2.67	0.77	19.94
	7	1.14	1.14	0.14	0.66	2.84	2.06	0.35	4.15	2.75	2.21	0.34	3.87	3.29	1.90	0.40	5.56	5.16	2.58	0.63	13.68
	8	0.80	0.80	0.09	0.25	2.65	2.02	0.29	2.77	2.48	2.13	0.27	2.42	3.16	1.93	0.34	3.93	4.95	2.52	0.53	9.62
	9	0.68	0.68	0.07	0.14	2.46	2.02	0.24	1.88	2.16	2.05	0.21	1.45	3.03	1.91	0.29	2.86	4.71	2.40	0.45	6.90
10	3	1.67	1.67	0.48	7.83	3.38	2.30	0.97	31.92	3.24	2.46	0.93	29.39	3.85	2.14	1.10	41.42	5.69	2.79	1.63	90.40
	4	1.54	1.54	0.33	3.71	3.17	2.21	0.68	15.82	3.06	2.37	0.66	14.74	3.63	2.06	0.78	20.67	5.45	2.73	1.17	46.73
	5	1.37	1.37	0.24	1.90	2.96	2.14	0.51	8.84	2.84	2.30	0.49	8.10	3.43	1.97	0.59	11.87	5.28	2.64	0.91	28.08
	6	1.18	1.18	0.17	0.97	2.76	2.05	0.40	5.33	2.64	2.21	0.38	4.85	3.21	1.87	0.46	7.20	5.05	2.56	0.72	17.84
	7	0.75	0.75	0.09	0.29	2.52	1.96	0.31	3.26	2.40	2.13	0.29	2.96	3.00	1.78	0.37	4.63	4.83	2.46	0.59	11.97
	8	/	/	/	/	2.39	2.01	0.26	2.24	2.08	2.08	0.22	1.70	2.88	1.82	0.31	3.26	4.64	2.37	0.50	8.46
	9	/	/	/	/	2.16	2.07	0.21	1.45	1.92	1.92	0.18	1.14	2.77	1.80	0.26	2.38	4.42	2.30	0.42	6.06
11	3	1.48	1.48	0.42	6.09	3.05	2.20	0.87	26.02	2.94	2.34	0.84	24.19	3.54	2.03	1.01	34.99	5.37	2.69	1.54	80.43
	4	1.35	1.35	0.29	2.87	2.86	2.12	0.61	12.86	2.75	2.25	0.59	11.85	3.34	1.95	0.72	17.55	5.15	2.61	1.11	41.63
	5	1.17	1.17	0.20	1.38	2.64	2.04	0.45	7.02	2.52	2.20	0.43	6.39	3.12	1.85	0.54	9.81	4.98	2.52	0.86	24.97
	6	0.93	0.93	0.13	0.60	2.41	1.96	0.34	4.05	2.31	2.10	0.33	3.74	2.90	1.76	0.42	5.87	4.75	2.46	0.68	15.78
	7	0.63	0.63	0.08	0.20	2.14	1.89	0.26	2.36	2.07	2.07	0.25	2.19	2.67	1.66	0.33	3.66	4.53	2.35	0.56	10.55
	8	/	/	/	/	1.83	1.80	0.20	1.32	1.91	1.91	0.21	1.44	2.56	1.67	0.28	2.58	4.35	2.26	0.47	7.43
	9	/	/	/	/	1.64	1.61	0.16	0.84	1.71	1.71	0.16	0.91	2.46	1.65	0.24	1.88	4.13	2.19	0.39	5.28
12	3	1.30	1.30	0.37	4.73	2.73	2.09	0.78	20.81	2.60	2.26	0.74	18.86	3.22	1.92	0.92	28.90	5.06	2.58	1.45	71.67
	4	1.15	1.15	0.25	2.07	2.53	2.02	0.54	10.03	2.40	2.18	0.52	9.06	3.02	1.83	0.65	14.38	4.85	2.50	1.04	36.99

	5	0.99	0.99	0.17	0.99	2.31	1.95	0.40	5.36	2.19	2.11	0.38	4.81	2.81	1.75	0.48	7.92	4.67	2.41	0.80	21.89
	6	0.60	0.60	0.09	0.25	2.05	1.89	0.29	2.94	2.03	1.99	0.29	2.88	2.57	1.65	0.37	4.62	4.44	2.34	0.64	13.78
	7	0.49	0.49	0.06	0.12	1.82	1.82	0.22	1.69	1.87	1.87	0.23	1.80	2.34	1.55	0.29	2.80	4.22	2.25	0.52	9.15
	8	/	/	/	/	1.63	1.63	0.18	1.05	1.70	1.70	0.18	1.13	2.24	1.55	0.24	1.97	4.02	2.17	0.43	6.34
	9	/	/	/	/	1.42	1.42	0.14	0.62	1.49	1.49	0.14	0.69	2.15	1.55	0.21	1.44	3.77	2.08	0.36	4.42
13	3	1.12	1.12	0.32	3.51	2.38	2.00	0.68	15.89	2.25	2.17	0.64	14.12	2.90	1.81	0.83	23.48	4.74	2.48	1.36	62.83
	4	0.96	0.96	0.21	1.44	2.18	1.93	0.47	7.48	2.11	2.07	0.45	6.97	2.69	1.72	0.58	11.38	4.54	2.38	0.98	32.39
	5	0.69	0.69	0.12	0.48	1.95	1.90	0.33	3.81	1.97	1.97	0.34	3.90	2.48	1.64	0.43	6.17	4.34	2.29	0.75	18.92
	6	0.46	0.46	0.07	0.15	1.77	1.77	0.25	2.19	1.83	1.83	0.26	2.34	2.24	1.55	0.32	3.50	4.11	2.23	0.59	11.82
	7	0.34	0.34	0.04	0.06	1.62	1.62	0.20	1.35	1.68	1.68	0.21	1.46	1.96	1.47	0.24	1.97	3.90	2.14	0.48	7.80
	8	/	/	/	/	1.42	1.42	0.15	0.79	1.50	1.50	0.16	0.88	1.88	1.39	0.20	1.39	3.69	2.03	0.40	5.34
	9	/	/	/	/	1.15	1.15	0.11	0.41	1.24	1.24	0.12	0.48	1.80	1.44	0.17	1.01	3.44	1.96	0.33	3.67
14	3	/	/	/	/	2.00	1.94	0.57	11.18	2.03	2.03	0.58	11.49	2.61	1.96	0.75	19.01	4.44	2.35	1.27	55.06
	4	/	/	/	/	1.87	1.83	0.40	5.47	1.92	1.92	0.41	5.79	2.37	1.85	0.51	8.85	4.22	2.28	0.91	28.03
	5	/	/	/	/	1.87	1.87	0.32	3.50	1.79	1.79	0.31	3.22	2.16	1.77	0.37	4.70	4.00	2.24	0.69	16.06
	6	/	/	/	/	1.87	1.87	0.27	2.43	1.64	1.64	0.23	1.87	1.93	1.64	0.28	2.61	3.80	2.13	0.54	10.06
	7	/	/	/	/	1.41	1.41	0.17	1.02	1.47	1.47	0.18	1.11	1.61	1.42	0.20	1.34	3.58	2.04	0.44	6.57
	8	/	/	/	/	1.87	1.87	0.20	1.37	1.27	1.27	0.14	0.63	1.54	1.42	0.17	0.93	3.34	1.97	0.36	4.39
	9	/	/	/	/	0.78	0.78	0.07	0.19	0.81	0.81	0.08	0.20	1.48	1.41	0.14	0.68	3.09	1.88	0.29	2.96
15	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	4.10	2.26	1.18	47.06
	4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3.90	2.18	0.84	23.88
	5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3.67	2.13	0.63	13.56
	6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3.47	2.05	0.50	8.42
	7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3.23	1.94	0.40	5.37
	8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.99	1.88	0.32	3.51
	9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.75	1.79	0.26	2.35

Cooling capacity modification coefficient table:

Speed	300		400	
	TC	SC	TC	SC
High	1	1	1	1
Mid	0.92	0.88	0.94	0.9
Low	0.84	0.8	0.89	0.85

6.2 Heating

Remark:

Δt : Temperature Difference ($^{\circ}\text{C}$); **TH**: Total Heating Capacity (kW); **WF**: Water Flow (m^3/h); **WPD**: Water Pressure Drop (kPa)

300

Air inlet temp. (20°C DB)

Water inlet temp. ($^{\circ}\text{C}$)

Δt	35			40			45			50			55			60			65			70			75		
	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	WPD
$^{\circ}\text{C}$	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa
20	—	—	—	—	—	—	1.48	0.06	0.1	3.41	0.15	0.8	4.61	0.20	1.4	5.74	0.25	2.2	6.80	0.29	3.1	7.93	0.34	4.3	1.66	0.07	0.2
15	—	—	—	—	—	—	3.13	0.18	1.2	4.27	0.24	2.2	5.32	0.30	3.4	6.42	0.37	5.0	7.36	0.42	6.5	8.56	0.49	8.8	1.75	0.10	0.4
10	1.79	0.15	0.9	2.81	0.24	2.1	3.90	0.34	4.1	4.92	0.42	6.6	5.94	0.51	9.6	6.99	0.60	13.3	7.99	0.69	17.4	9.00	0.77	22.0	1.85	0.16	0.9
8	1.99	0.21	1.7	3.10	0.33	4.1	4.15	0.45	7.3	5.17	0.56	11.4	6.17	0.66	16.1	7.17	0.77	21.8	8.18	0.88	28.4	9.19	0.99	35.8	1.90	0.20	1.5
6	2.30	0.33	4.0	3.35	0.48	8.5	4.35	0.62	14.3	5.40	0.77	22.0	6.42	0.92	31.1	7.43	1.06	41.6	8.37	1.20	52.9	9.44	1.35	67.2	1.95	0.28	2.9

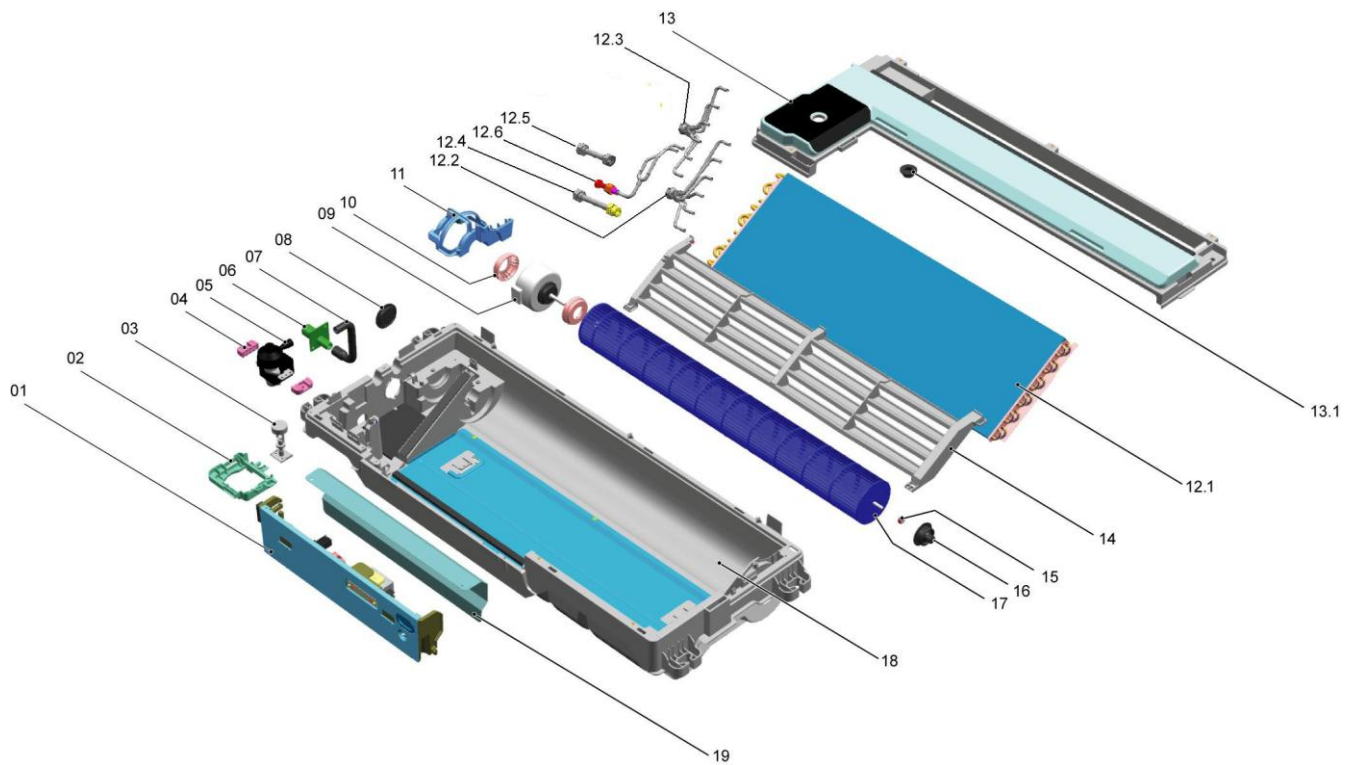
400

Air inlet temp. (20°C DB)

Water inlet temp. ($^{\circ}\text{C}$)

Δt	35			40			45			50			55			60			65			70			75		
	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	WPD
$^{\circ}\text{C}$	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa	kW	m^3/h	kPa
20	—	—	—	—	—	—	1.85	0.08	0.2	4.26	0.18	1.3	5.76	0.25	2.4	7.17	0.31	3.7	8.50	0.37	5.1	9.91	0.43	7.0	1.66	0.07	0.2
15	—	—	—	—	—	—	3.91	0.22	1.9	5.33	0.31	3.6	6.65	0.38	5.6	8.02	0.46	8.1	9.20	0.53	10.7	10.70	0.61	14.5	1.75	0.10	0.4
10	2.24	0.19	1.4	3.52	0.30	3.5	4.87	0.42	6.7	6.14	0.53	10.7	7.43	0.64	15.7	8.73	0.75	21.7	9.99	0.86	28.4	11.25	0.97	36.0	1.85	0.16	1.0
8	2.49	0.27	2.7	3.87	0.42	6.7	5.18	0.56	11.9	6.47	0.70	18.6	7.71	0.83	26.4	8.97	0.96	35.7	10.23	1.10	46.5	11.49	1.23	58.6	1.90	0.20	1.6
6	2.88	0.41	6.6	4.19	0.60	13.9	5.44	0.78	23.3	6.75	0.97	36.0	8.02	1.15	50.9	9.28	1.33	68.1	10.46	1.50	86.5	11.80	1.69	110.0	1.95	0.28	3.0

7. Exploded View



No.	Part Name	Qty	No.	Part Name	Qty
1	E-part box ass'y	1	11	Motor bracket	1
1.1	Electric control box of fire protection shell welded pieces	1	12	Evaporator ass'y	1
1.2	Middle wiring board	1	12.1	Outlet valve ass'y	1
1.3	Power transformer	1	12.2	Inlet valve ass'y	1
1.4	Motor capacitor	1	12.3	Evaporator	1
1.5	Main control board ass'y	1	12.4	Inlet pipe ass'y	1
1.6	Electronic control box	1	12.5	Inlet connect pipe ass'y	1
2	Drainage pump bracket	1	12.6	Exhaust valve	1
3	Water Level Switch	1	13	Drain tray	1
4	Drainage pump shock pad	2	13.1	Drain plug	1
5	Drainage pump	1	14	Auxiliary drainage pan	1
6	Connecting pipe	1	15	Bearing ball	1
7	Drain pipe	1	16	Bearing base	1
8	Water cover ass'y	1	17	Cross fan	1
9	Asynchronous motor	1	18	Chassis Parts	1
10	AC motor reducing sleeve	2	19	E-Part box cover	1



Air Conditioning Systems

Cooling & Heating

TRUST AIR-CONDITIONING EQUIPMENT CO.

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برترین نام و نشان های تجاری ایران

