Библиотека СОК

Contents

1. Introduction....2
2. Nomenclature....2
3. Product Schedule....3
4. External Appearance....3
5. Features....4
6. Specifications....6
7. Dimensions....9
8. Wiring Diagrams....10
9. Capacity Tables....14
10.Static Pressure Graphs....24
11. Exploded Views....27
12. Installation....33
13. Accessories....37

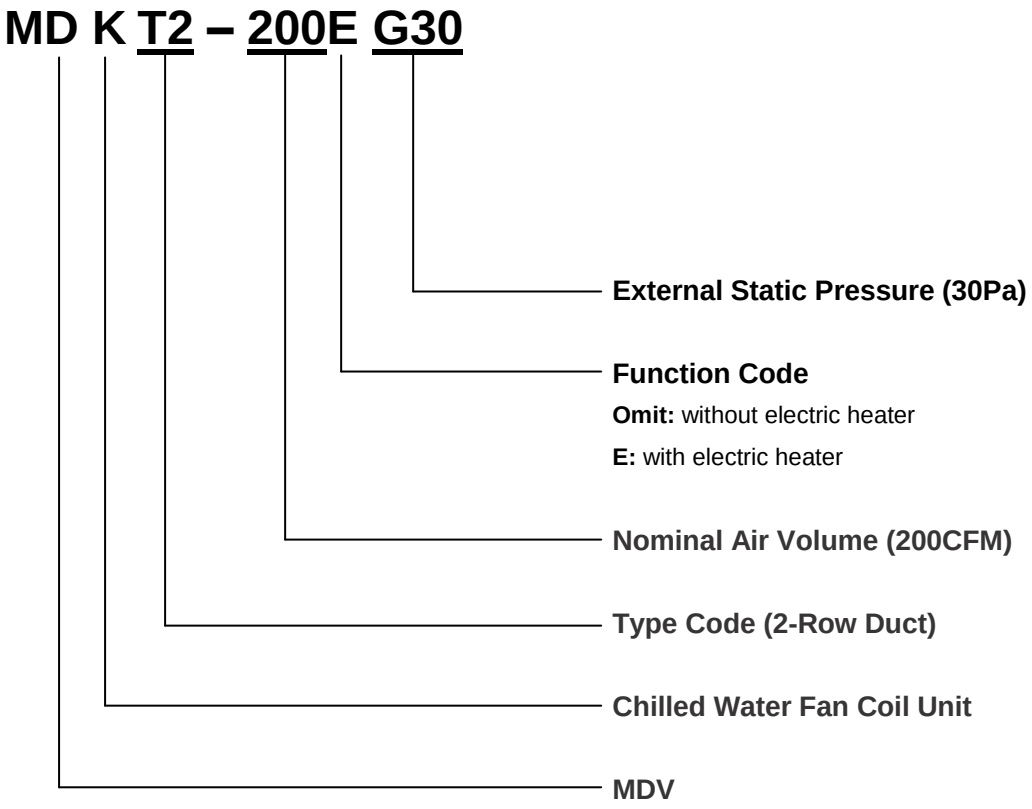
1. Introduction

Fan coil unit is a kind of compound device which assemble fan and heat exchanger (coil) together. Fan coil with fresh air supply system is a main type of central air-conditioner system, so it is an important component of AC devices. 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.

For 50Pa models factory just changed the wiring connection for fan motor (based on the 50Pa models) High Speed switches to Super High Speed.
And change the model label. Other technical data 30 and 50Pa absolutely same.

2. Nomenclature



4. External Appearance

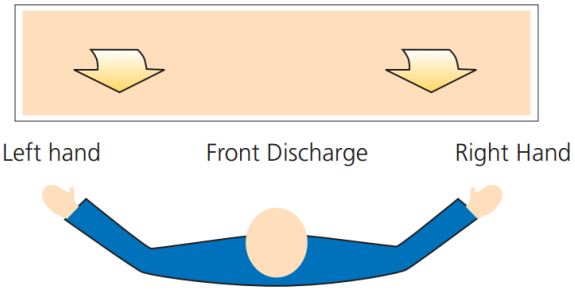




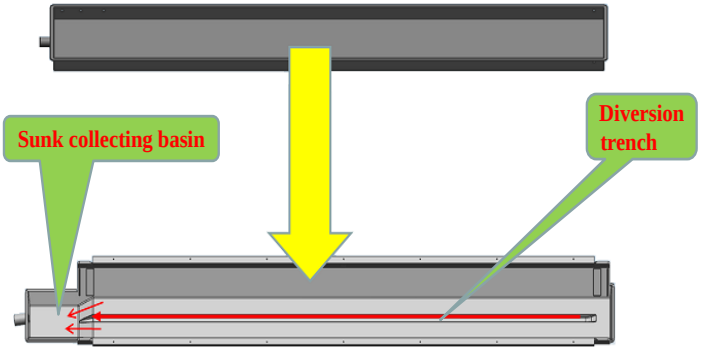
Product Schedule

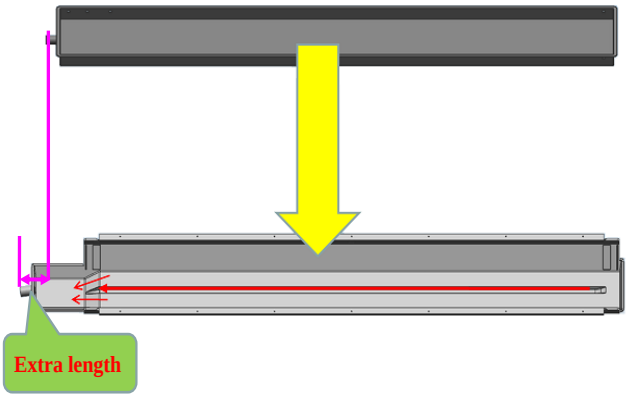
5. Features

1. **Wide external static pressure supplying.**
   Two external static pressure (12Pa/30Pa) settings for added flexibility.
2. **Left or right hand piping connections, field convertible.**

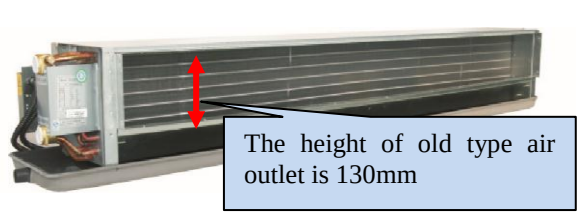


3. **Quiet operation**
   A patent design is able to prevent abnormal noise caused by blowing fins.
4. **Superior air distribution**
   As the conditioned air can be distributed to every corner of the area by air duct, this will ensure more pleasant living environment, thus provide extra comfort to the occupants.
5. **Fresh air supply makes life healthier and more comfortable**
6. **Air return plenum**
   Units with air return plenum is standard and units without air return plenum can be customized.
7. **V type drain pan**
   Diversion trench and sunk collecting basin design making better drainage. Longer length of V type drain pan can better receive the drain ,water dripping from the water piping and valve connection.





The performance is improved for larger air outlet area



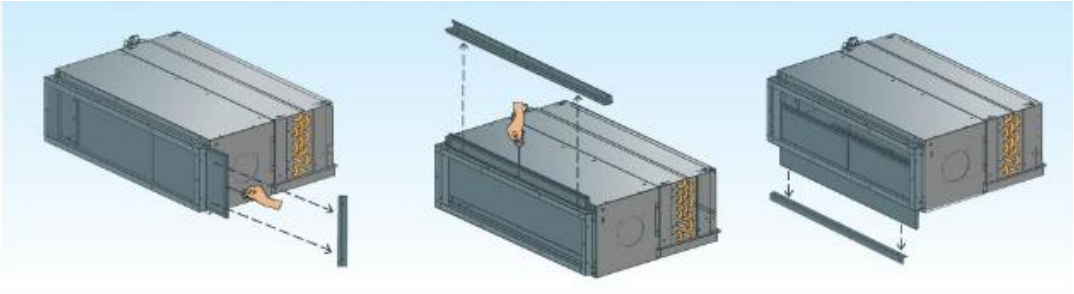


8. **Electric heater**
   Safe factory-installed electric heater is an option for unit.

9. Washable filter

Iron frame filter is standard, and aluminum frame filter can be customized.

Air outlet flange and multi-direction pull-out filter can be customized.



10. Optional wired controller

Optional wired controller offers simple and flexibility in controlling the unit.

11. Wide application area

220-240V/1Ph/50Hz power supply is standard and 208-230V/1Ph/60Hz can be customized.

6. Specifications

Model MDKT2				200G12 200G30 200EG30	300G12 300G30 300EG30	400G12 400G30 400EG30
Air flow		H/M/L	m^3/h	340/255/170	510/385/255	680/510/340
		H/M/L	CFM	200/150/100	300/225/150	400/300/200
External Static pressure			Pa	G12 models: 12; G30 models: 30		
Cooling	Capacity	H/M/L	kW	2/1.74/1.52	2.7/2.31/2.03	3.6/3.11/2.66
	Water flow rate	H	l/h	344	464	619
	Water pressure drop	H	kPa	5	11	19
Heating	Capacity	H/M/L	kW	3.2/2.75/2.37	4.3/3.74/3.23	5.4/4.64/4.05
	Water pressure drop	H	kPa	4.2	9.5	15.5
Power supply			V/ph/Hz	220-240/1/50		
Power input	12Pa	H	W	31	50	60
	30Pa	H	W	45	60	67
Electric heater capacity		E	W	550	650	1100
Sound pressure level	12Pa	H/M/L	dB(A)	36/34/29	38/33/29	38/35/31
	30Pa	H/M/L	dB(A)	41/37/31	41/37/32	42/39/33
Fan motor	Type			Low noise 4-speed fan motor		
	Quantity			1	1	1
Fan	Type			Centrifugal, forward-curved Blades		
	Quantity			1	2	2
Coil	Row			2		
	Max. working pressure		MPa	1.6		
	Diameter		mm	Φ9.52		
Body	Dimensions	W×H×D	mm	741×241×522	841×241×522	941×241×522
	Packing	W×H×D	mm	790×260×550	890×260×550	990×260×550
	Net weight	*/E	kg	13.9/14.5	16.5/18	19.2/20.7
	Gross weight	*/E	kg	16.2/17.7	19/20.5	21.6/23.1
Pipe connection	Water inlet/outlet pipe		Inch	RC3/4		
	Drain pipe		mm	ODΦ24		

Note:

1. H: high fan speed; M: medium fan speed; L: low fan speed
2. * for units without electric heater, E for units with electric heater.
3. The data is based on 12Pa external static pressure for G12 models, 30Pa for G30 models.
4. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB,19°CWB.
   Heating conditions: entering water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
5. Noise is tested in semi-anechoic test room.
6. Hot water temperature cannot be > 75°C.

Specifications

Model MDKT2				500G12 500G30 500EG30	600G12 600G30 600EG30	800G12 800G30 800EG30
Air flow		H/M/L	m^3/h	850/640/425	1020/765/510	1360/1020/680
		H/M/L	CFM	500/375/250	600/450/300	800/600/400
External Static pressure			Pa	G12 models: 12; G30 models: 30		
Cooling	Capacity	H/M/L	kW	4.4/3.74/3.25	5.5/4.58/4.09	7.5/6.33/5.68
	Water flow rate	H	l/h	757	946	1290
	Water pressure drop	H	kPa	22	14	14
Heating	Capacity	H/M/L	kW	6.8/5.78/5.07	8.1/6.77/5.92	11/9.48/8.25
	Water pressure drop	H	kPa	18.3	11.8	12.5
Power supply			V/ph/Hz	220-240/1/50		
Power input	12Pa	H	W	80	97	140
	30Pa	H	W	89	110	130
Electric heater capacity		E	W	1100	1600	2200
Sound pressure level	12Pa	H/M/L	dB(A)	39/36/32	40/36/33	42/37/33
	30Pa	H/M/L	dB(A)	45/41/34	46/41/35	46/41/36
Fan motor	Type			Low noise 4-speed fan motor		
	Quantity			1	1	2
Fan	Type			Centrifugal, forward-curved Blades		
	Quantity			2	2	4
Coil	Row			2		
	Max. working pressure		MPa	1.6		
	Diameter		mm	Φ9.52		
Body	Dimensions	W×H×D	mm	941×241×522	1161×241×522	1461×241×522
	Packing	W×H×D	mm	990×260×550	1210×260×550	1510×260×550
	Net weight	*/E	kg	19.2/20.7	22/24	30.9/33.4
	Gross weight	*/E	kg	21.6/23.1	25/27	34.5/37
Pipe connection	Water inlet/outlet pipe		Inch	RC3/4		
	Drain pipe		mm	ODΦ24		

Note:

1. H: high fan speed; M: medium fan speed; L: low fan speed
2. * for units without electric heater, E for units with electric heater.
3. The data is based on 12Pa external static pressure for G12 models, 30Pa for G30 models.
4. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB,19°CWB.
   Heating conditions: entering water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
5. Noise is tested in semi-anechoic test room.
6. Hot water temperature cannot be > 75°C.

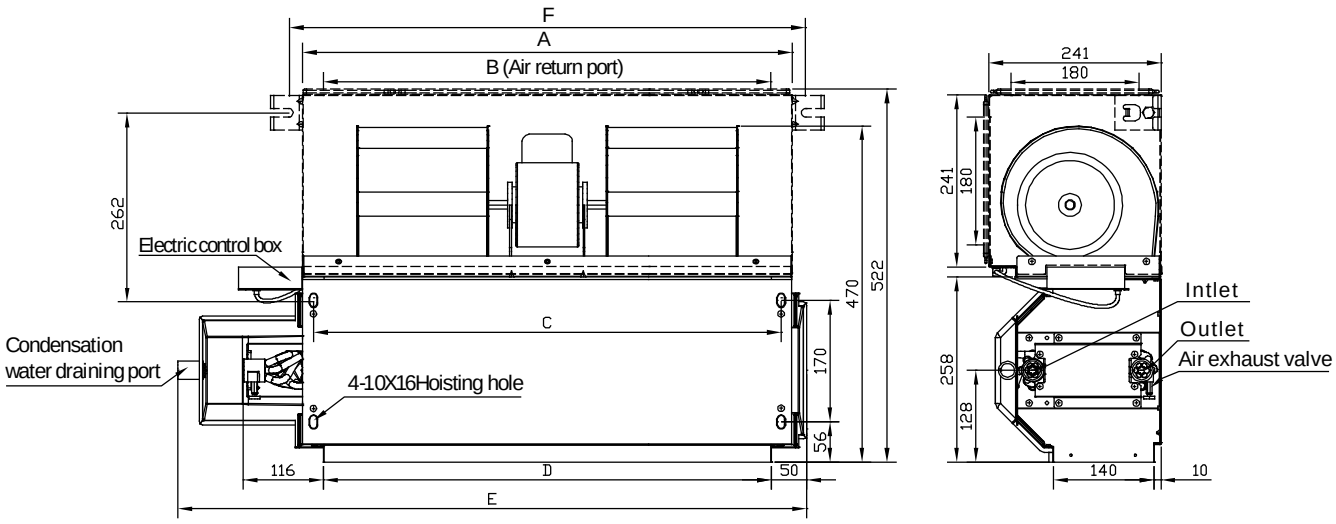
Specifications

Model MDKT2				1000G12 1000G30 1000EG30	1200G12 1200G30 1200EG30	1400G12 1400G30 1400EG30
Air flow		H/M/L	m^3/h	1700/1275/850	2040/1530/1020	2380/1785/1190
		H/M/L	CFM	1000/750/500	1200/900/600	1400/1050/700
External Static pressure			Pa	G12 models: 12; G30 models: 30		
Cooling	Capacity	H/M/L	kW	8.9/7.61/6.41	10.8/9.13/7.93	12.3/10.46/9.27
	Water flow rate	H	l/h	1531	1858	2116
	Water pressure drop	H	kPa	22	39	46
Heating	Capacity	H/M/L	kW	13.5/11.72/10.03	16.5/14.05/12.24	19.5/16.85/14.63
	Water pressure drop	H	kPa	19	32.6	40.1
Power supply			V/ph/Hz	220-240/1/50		
Power input	12Pa	H	W	172	205	216
	30Pa	H	W	171	212	249
Electric heater capacity		E	W	2200	3200	3200
Sound pressure level	12Pa	H/M/L	dB(A)	44/39/34	46/40/35	48/42/37
	30Pa	H/M/L	dB(A)	47/43/37	48/44/38	49/44/39
Fan motor	Type			Low noise 4-speed fan motor		
	Quantity			2	2	2
Fan	Type			Centrifugal, forward-curved Blades		
	Quantity			4	4	4
Coil	Row			2		
	Max. working pressure		MPa	1.6		
	Diameter		mm	Φ9.52		
Body	Dimensions	W×H×D	mm	1566×241×522	1856×241×522	2022×241×522
	Packing	W×H×D	mm	1615×260×550	1905×260×550	2070×260×550
	Net weight	*/E	kg	33.4/36.4	38.5/42	42.1/46.1
	Gross weight	*/E	kg	37/40	42/45.5	47.5/51.5
Pipe connection	Water inlet/outlet pipe		Inch	RC3/4		
	Drain pipe		mm	ODΦ24		

Note:

1. H: high fan speed; M: medium fan speed; L: low fan speed
2. * for units without electric heater, E for units with electric heater.
3. The data is based on 12Pa external static pressure for G12 models, 30Pa for G30 models.
4. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB,19°CWB.
   Heating conditions: entering water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
5. Noise is tested in semi-anechoic test room.

7. Dimensions



Unit: mm

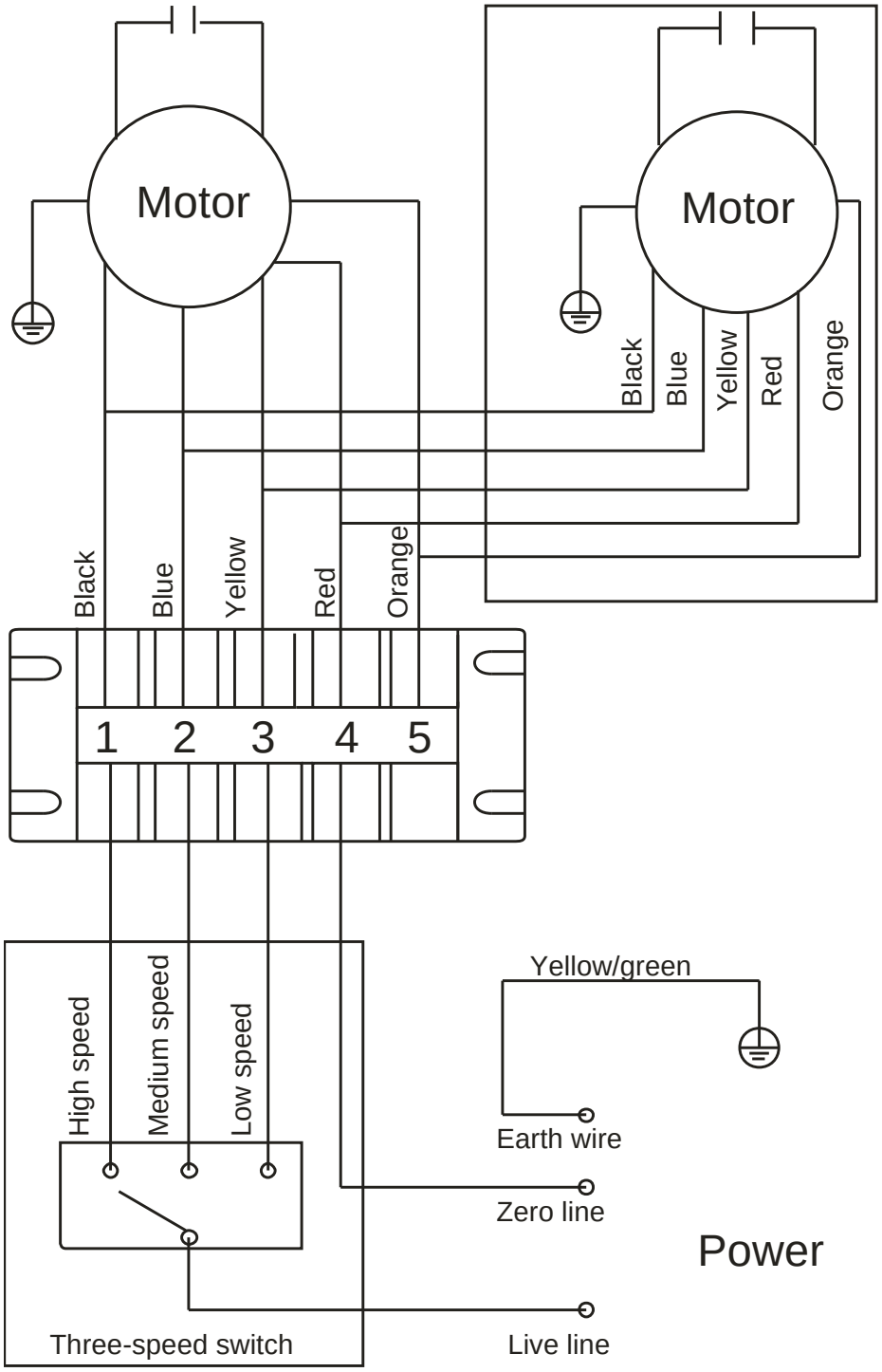
Model / Size	200-Model	300-Model	400-Model 500-Model	600-Model	800-Model	1000-Model	1200-Model	1400-Model
A	545	645	745	965	1265	1370	1660	1826
B	484	585	685	905	1205	1310	1600	1766
C	513	613	713	933	1233	1338	1628	1794
D	485	585	685	905	1205	1310	1600	1766
E	741	841	941	1161	1461	1566	1856	2022
F	583	683	783	1003	1303	1408	1698	1864

Note:

- The above figure is only an instance, which would be different from the one that you purchase.
- Units with air return plenum is standard, units without air return plenum can be customized.

8. Wiring Diagrams

G30

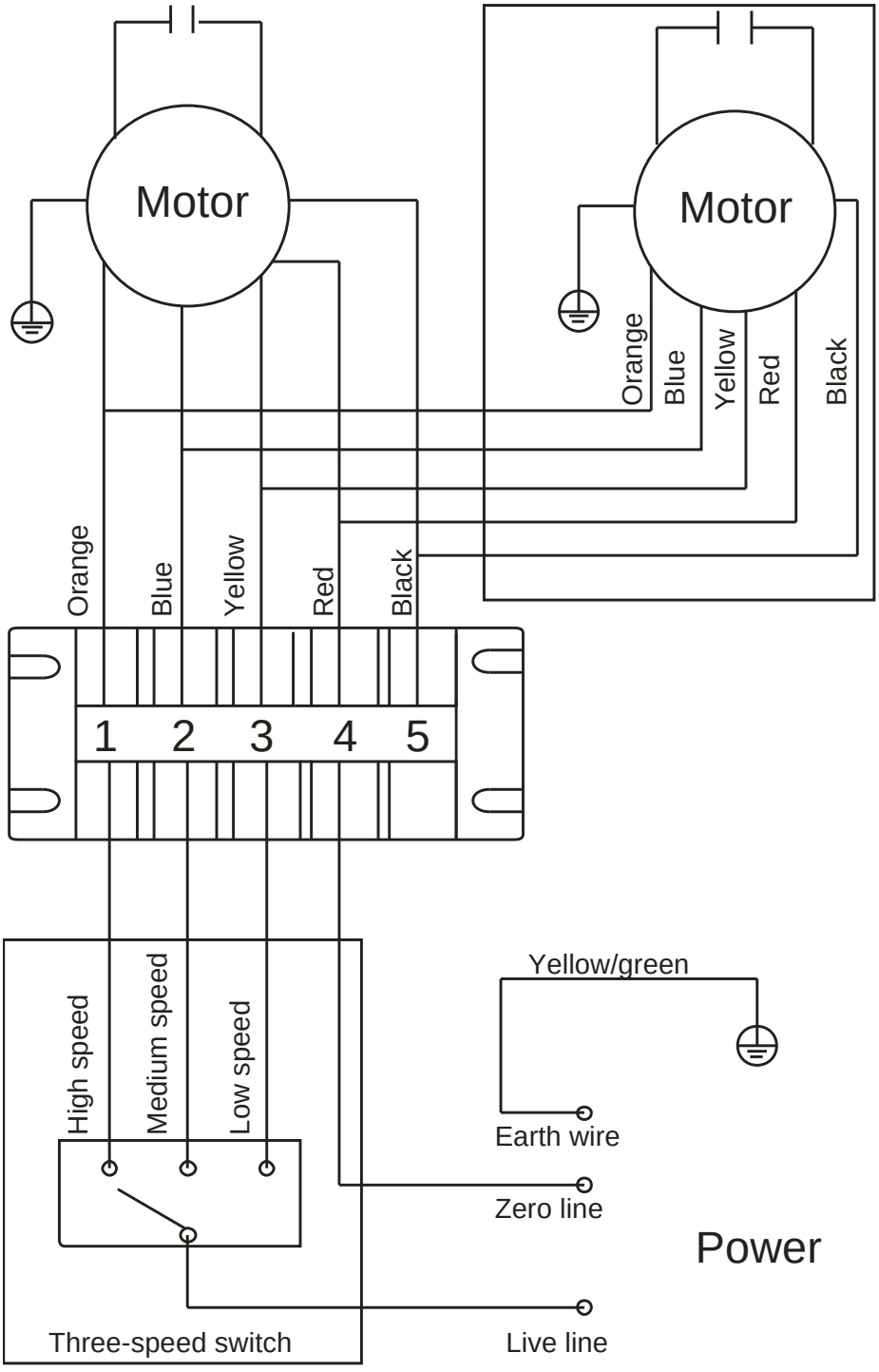


Note:

- Black: supper high fan speed; Orange: high fan speed; Blue: medium fan speed; Yellow: low fan speed.
- Terminal 5 connects with reserved fan speed.
- Please connect wires properly, or the motor would be burned-out.

Wiring diagrams

G30



Note:

- Black: supper high fan speed; Orange: high fan speed; Blue: medium fan speed; Yellow: low fan speed.
- Terminal 5 connects with reserved speed.
- Please connect wires properly, or the motor would be burned-out.

9. Capacity Tables

Remark:

EWT: Entering Water Temp. (℃); **Δt:**Temperature Difference (℃); **DB:** Dry Bulb Temp. (℃); **WB:** Wet Bulb Temp. (℃);

TC: Total Cooling Capacity (kW); **SC:** Sensible Cooling Capacity (kW); **WF:** Water Flow (m^3/h); **WPD:** Water Pressure Drop (kPa)

200G12/200G30																					
EWT	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	1.65	1.20	0.47	9.5	2.55	1.54	0.73	22.5	2.50	1.60	0.72	21.6	2.79	1.46	0.80	27.0	3.75	1.82	1.08	48.9
	4	1.56	1.13	0.33	4.7	2.45	1.49	0.53	11.7	2.41	1.56	0.52	11.3	2.68	1.41	0.58	14.0	3.64	1.76	0.78	25.8
	5	1.44	1.09	0.25	2.6	2.34	1.44	0.40	6.9	2.30	1.51	0.40	6.6	2.57	2.23	0.44	8.3	3.52	1.73	0.61	15.5
	6	1.31	1.04	0.19	1.5	2.24	1.40	0.32	4.4	2.20	1.45	0.31	4.2	2.46	1.31	0.35	5.3	3.43	1.67	0.49	10.2
	7	1.18	0.97	0.14	0.9	2.13	1.33	0.26	2.9	2.08	1.41	0.26	2.8	2.36	1.26	0.29	3.5	3.32	1.62	0.41	7.0
6	3	1.49	1.13	0.43	7.8	2.40	1.47	0.69	20.1	2.35	1.54	0.67	19.2	2.65	1.40	0.76	24.3	3.61	1.76	1.03	45.2
	4	1.39	1.08	0.30	3.8	2.31	1.42	0.50	10.4	2.25	1.49	0.48	9.9	2.54	1.35	0.55	12.6	3.49	1.70	0.75	23.8
	5	1.28	1.03	0.22	2.1	2.20	1.37	0.38	6.0	2.15	1.44	0.37	5.8	2.44	1.30	0.42	7.4	3.38	1.65	0.58	14.3
	6	1.15	0.98	0.17	1.2	2.09	1.33	0.30	3.8	2.04	1.39	0.29	3.6	2.32	1.24	0.33	4.7	3.29	1.59	0.47	9.4
	7	1.01	0.91	0.12	0.7	1.98	1.27	0.24	2.5	1.93	1.35	0.24	2.4	2.21	1.19	0.27	3.1	3.17	1.56	0.39	6.4
7	3	1.34	1.06	0.38	6.2	2.25	1.40	0.64	17.5	2.20	1.47	0.63	16.7	2.49	1.33	0.71	21.5	3.43	1.67	0.98	41.0
	4	1.23	1.02	0.26	2.9	2.15	1.35	0.46	9.1	2.10	1.43	0.45	8.6	2.39	1.28	0.51	11.2	3.35	1.65	0.72	21.9
	5	1.11	0.97	0.19	1.5	2.04	1.30	0.35	5.2	2	1.38	0.34	5	2.28	1.23	0.39	6.5	3.23	1.59	0.56	13.1
	6	0.98	0.92	0.14	0.8	1.94	1.27	0.28	3.3	1.90	1.33	0.27	3.1	2.17	1.18	0.31	4.1	3.15	1.53	0.45	8.6
	7	0.85	0.85	0.10	0.5	1.83	1.21	0.23	2.1	1.77	1.29	0.22	2.0	2.06	1.13	0.25	2.7	3.03	1.47	0.37	5.9
8	3	1.17	1.01	0.34	4.8	2.09	1.34	0.60	15.2	2.04	1.41	0.59	14.5	2.34	1.26	0.67	19.0	3.29	1.62	0.94	37.6
	4	1.06	0.98	0.23	2.2	2.00	1.30	0.43	7.8	1.94	1.37	0.42	7.3	2.23	1.22	0.48	9.7	3.17	1.56	0.68	19.7
	5	0.94	0.91	0.16	1.1	1.90	1.24	0.33	4.5	1.84	1.32	0.32	4.2	2.13	1.17	0.37	5.7	3.09	1.50	0.53	11.9
	6	0.84	0.84	0.12	0.6	1.77	1.20	0.25	2.7	1.74	1.27	0.25	2.6	2.03	1.11	0.29	3.6	2.97	1.47	0.43	7.7
	7	0.73	0.73	0.09	0.3	1.67	1.15	0.21	1.8	1.62	1.23	0.20	1.7	1.90	1.07	0.23	2.3	2.87	1.42	0.35	5.2
9	3	1.00	0.95	0.29	3.5	1.95	1.28	0.56	13.1	1.89	1.34	0.54	12.4	2.18	1.19	0.63	16.6	3.15	1.56	0.90	34.4
	4	0.91	0.91	0.20	1.6	1.84	1.24	0.39	6.6	1.78	1.30	0.38	6.2	2.07	1.15	0.45	8.4	3.03	1.50	0.65	17.9
	5	0.84	0.81	0.14	0.9	1.74	1.18	0.30	3.8	1.68	1.26	0.29	3.5	1.97	1.10	0.34	4.9	2.94	1.44	0.51	10.8
	6	0.74	0.74	0.11	0.5	1.62	1.14	0.23	2.3	1.56	1.22	0.22	2.1	1.87	1.05	0.27	3.0	2.82	1.41	0.40	6.9
	7	0.60	0.60	0.07	0.2	1.50	1.09	0.18	1.4	1.45	1.17	0.18	1.3	1.74	1.00	0.21	1.9	2.72	1.36	0.33	4.7
10	3	0.88	0.88	0.25	2.7	1.78	1.22	0.51	11.0	1.71	1.30	0.49	10.2	2.03	1.13	0.58	14.3	3.00	1.47	0.86	31.3
	4	0.81	0.81	0.17	1.3	1.67	1.17	0.36	5.5	1.62	1.25	0.35	5.1	1.91	1.09	0.41	7.2	2.88	1.44	0.62	16.2
	5	0.72	0.72	0.12	0.7	1.56	1.13	0.27	3.1	1.50	1.21	0.26	2.8	1.81	1.04	0.31	4.1	2.79	1.39	0.48	9.7
	6	0.62	0.62	0.09	0.3	1.46	1.08	0.21	1.8	1.39	1.17	0.20	1.7	1.69	0.99	0.24	2.5	2.67	1.35	0.38	6.2
	7	0.40	0.40	0.05	0.1	1.33	1.04	0.16	1.1	1.27	1.12	0.16	1.0	1.58	0.94	0.19	1.6	2.55	1.30	0.31	4.1
11	3	0.78	0.78	0.22	2.1	1.61	1.16	0.46	9.0	1.55	1.24	0.45	8.4	1.87	1.07	0.54	12.1	2.83	1.42	0.81	27.8
	4	0.71	0.71	0.15	1.0	1.51	1.12	0.32	4.4	1.45	1.19	0.31	4.1	1.76	1.03	0.38	6.1	2.72	1.38	0.58	14.4
	5	0.62	0.62	0.11	0.5	1.39	1.08	0.24	2.4	1.33	1.16	0.23	2.2	1.65	0.98	0.28	3.4	2.63	1.33	0.45	8.6
	6	0.49	0.49	0.07	0.2	1.27	1.03	0.18	1.4	1.22	1.11	0.17	1.3	1.53	0.93	0.22	2.0	2.51	1.30	0.36	5.5
	7	0.33	0.33	0.04	0.1	1.13	1.00	0.14	0.8	1.09	1.09	0.13	0.8	1.41	0.87	0.17	1.3	2.39	1.24	0.29	3.7
12	3	0.69	0.69	0.20	1.6	1.44	1.11	0.41	7.2	1.37	1.19	0.39	6.5	1.70	1.01	0.49	10.0	2.67	1.36	0.77	24.8
	4	0.61	0.61	0.13	0.7	1.33	1.07	0.29	3.5	1.27	1.15	0.27	3.1	1.60	0.97	0.34	5.0	2.56	1.32	0.55	12.8
	5	0.52	0.52	0.09	0.3	1.22	1.03	0.21	1.9	1.15	1.11	0.20	1.7	1.48	0.92	0.25	2.7	2.46	1.27	0.42	7.6
	6	0.31	0.31	0.05	0.1	1.08	1.00	0.16	1.0	1.07	1.05	0.15	1.0	1.36	0.87	0.19	1.6	2.34	1.24	0.34	4.8
	7	0.26	0.26	0.03	0.0	0.96	0.96	0.12	0.6	0.99	0.99	0.12	0.6	1.23	0.82	0.15	1.0	2.23	1.19	0.27	3.2
13	3	0.59	0.59	0.17	1.2	1.26	1.06	0.36	5.5	1.19	1.15	0.34	4.9	1.53	0.96	0.44	8.1	2.50	1.31	0.72	21.7
	4	0.51	0.51	0.11	0.5	1.15	1.02	0.25	2.6	1.11	1.09	0.24	2.4	1.42	0.91	0.31	3.9	2.40	1.26	0.52	11.2
	5	0.36	0.36	0.06	0.2	1.03	1.00	0.18	1.3	1.04	1.04	0.18	1.3	1.31	0.87	0.22	2.1	2.29	1.21	0.39	6.5
	6	0.24	0.24	0.03	0.1	0.94	0.94	0.13	0.8	0.97	0.97	0.14	0.8	1.18	0.82	0.17	1.2	2.17	1.18	0.31	4.1
	7	0.18	0.18	0.02	0.0	0.85	0.85	0.10	0.5	0.89	0.89	0.11	0.5	1.03	0.77	0.13	0.7	2.06	1.13	0.25	2.7

Cooling Capacities

300G12/300G30																					
EWT	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	2.23	1.62	0.64	20.9	3.44	2.07	0.99	49.6	3.37	2.16	0.97	47.6	3.76	1.98	1.08	59.4	5.06	2.45	1.45	107.5
	4	2.10	1.53	0.45	10.4	3.31	2.01	0.71	25.8	3.25	2.10	0.70	25.0	3.62	1.91	0.78	30.8	4.91	2.38	1.06	56.8
	5	1.94	1.46	0.33	5.7	3.16	1.94	0.54	15.1	3.10	2.03	0.53	14.5	3.48	3.00	0.60	18.2	4.75	2.34	0.82	34.1
	6	1.77	1.40	0.25	3.3	3.02	1.89	0.43	9.6	2.96	1.96	0.42	9.2	3.32	1.77	0.48	11.6	4.64	2.26	0.66	22.5
	7	1.59	1.31	0.20	1.9	2.88	1.80	0.35	6.4	2.81	1.90	0.35	6.1	3.18	1.70	0.39	7.8	4.48	2.18	0.55	15.5
6	3	2.02	1.53	0.58	17.1	3.25	1.99	0.93	44.1	3.17	2.08	0.91	42.2	3.57	1.89	1.02	53.5	4.87	2.38	1.40	99.4
	4	1.87	1.45	0.40	8.3	3.12	1.92	0.67	22.9	3.04	2.01	0.65	21.8	3.43	1.82	0.74	27.7	4.71	2.30	1.01	52.4
	5	1.73	1.39	0.30	4.5	2.96	1.85	0.51	13.3	2.91	1.95	0.50	12.7	3.29	1.75	0.57	16.4	4.56	2.22	0.78	31.4
	6	1.55	1.32	0.22	2.5	2.82	1.80	0.40	8.4	2.76	1.87	0.40	8.0	3.13	1.68	0.45	10.3	4.44	2.14	0.64	20.7
	7	1.37	1.23	0.17	1.4	2.68	1.71	0.33	5.5	2.61	1.82	0.32	5.2	2.99	1.61	0.37	6.9	4.29	2.10	0.53	14.1
7	3	1.80	1.43	0.52	13.6	3.03	1.89	0.87	38.5	2.96	1.99	0.85	36.8	3.36	1.79	0.96	47.4	4.64	2.26	1.33	90.1
	4	1.66	1.38	0.36	6.5	2.91	1.83	0.62	19.9	2.83	1.92	0.61	18.9	3.23	1.73	0.69	24.6	4.52	2.22	0.97	48.2
	5	1.50	1.31	0.26	3.4	2.76	1.76	0.47	11.5	2.7	1.86	0.46	11	3.07	1.66	0.53	14.3	4.36	2.14	0.75	28.7
	6	1.32	1.25	0.19	1.8	2.61	1.71	0.37	7.2	2.57	1.79	0.37	6.9	2.93	1.59	0.42	9.0	4.25	2.06	0.61	18.9
	7	1.14	1.14	0.14	1.0	2.47	1.63	0.30	4.7	2.39	1.74	0.29	4.4	2.78	1.52	0.34	5.9	4.09	1.99	0.50	12.9
8	3	1.58	1.36	0.45	10.5	2.82	1.81	0.81	33.4	2.76	1.90	0.79	31.9	3.16	1.69	0.91	41.8	4.44	2.18	1.27	82.7
	4	1.43	1.32	0.31	4.8	2.70	1.75	0.58	17.2	2.62	1.85	0.56	16.2	3.01	1.64	0.65	21.3	4.29	2.10	0.92	43.3
	5	1.26	1.24	0.22	2.4	2.56	1.68	0.44	9.9	2.49	1.78	0.43	9.3	2.88	1.58	0.50	12.5	4.17	2.03	0.72	26.2
	6	1.13	1.13	0.16	1.3	2.40	1.62	0.34	6.0	2.35	1.71	0.34	5.8	2.74	1.50	0.39	7.8	4.01	1.99	0.58	16.9
	7	0.99	0.99	0.12	0.8	2.26	1.55	0.28	3.9	2.19	1.66	0.27	3.7	2.56	1.44	0.31	5.0	3.87	1.91	0.48	11.5
9	3	1.35	1.28	0.39	7.7	2.63	1.73	0.75	28.9	2.55	1.82	0.73	27.3	2.95	1.61	0.85	36.5	4.25	2.10	1.22	75.6
	4	1.23	1.23	0.26	3.6	2.48	1.67	0.53	14.5	2.40	1.76	0.52	13.6	2.80	1.55	0.60	18.4	4.09	2.03	0.88	39.5
	5	1.13	1.10	0.20	1.9	2.35	1.60	0.40	8.3	2.27	1.70	0.39	7.8	2.66	1.48	0.46	10.7	3.97	1.95	0.68	23.8
	6	0.99	0.99	0.14	1.0	2.19	1.54	0.31	5.0	2.11	1.65	0.30	4.7	2.52	1.41	0.36	6.7	3.81	1.91	0.55	15.2
	7	0.81	0.81	0.10	0.5	2.03	1.46	0.25	3.2	1.96	1.57	0.24	2.9	2.35	1.35	0.29	4.2	3.68	1.84	0.45	10.4
10	3	1.19	1.19	0.34	6.0	2.41	1.64	0.69	24.3	2.31	1.75	0.66	22.4	2.74	1.53	0.79	31.5	4.05	1.99	1.16	68.8
	4	1.09	1.09	0.24	2.8	2.26	1.58	0.49	12.0	2.18	1.69	0.47	11.2	2.58	1.47	0.56	15.7	3.88	1.95	0.84	35.6
	5	0.98	0.98	0.17	1.4	2.11	1.53	0.36	6.7	2.02	1.64	0.35	6.2	2.45	1.40	0.42	9.0	3.76	1.88	0.65	21.4
	6	0.84	0.84	0.12	0.7	1.97	1.46	0.28	4.1	1.88	1.57	0.27	3.7	2.29	1.33	0.33	5.5	3.60	1.83	0.52	13.6
	7	0.53	0.53	0.07	0.2	1.80	1.40	0.22	2.5	1.71	1.52	0.21	2.3	2.14	1.27	0.26	3.5	3.44	1.75	0.42	9.1
11	3	1.05	1.05	0.30	4.6	2.17	1.57	0.62	19.8	2.10	1.67	0.60	18.4	2.52	1.45	0.72	26.6	3.82	1.91	1.10	61.2
	4	0.96	0.96	0.21	2.2	2.04	1.51	0.44	9.8	1.96	1.61	0.42	9.0	2.38	1.39	0.51	13.4	3.67	1.86	0.79	31.7
	5	0.83	0.83	0.14	1.0	1.88	1.45	0.32	5.3	1.80	1.57	0.31	4.9	2.22	1.32	0.38	7.5	3.55	1.80	0.61	19.0
	6	0.66	0.66	0.09	0.5	1.71	1.39	0.25	3.1	1.65	1.50	0.24	2.8	2.06	1.25	0.30	4.5	3.39	1.75	0.49	12.0
	7	0.45	0.45	0.06	0.2	1.53	1.34	0.19	1.8	1.47	1.47	0.18	1.7	1.90	1.18	0.23	2.8	3.23	1.68	0.40	8.0
12	3	0.93	0.93	0.27	3.6	1.94	1.49	0.56	15.8	1.85	1.61	0.53	14.4	2.29	1.37	0.66	22.0	3.61	1.84	1.03	54.6
	4	0.82	0.82	0.18	1.6	1.80	1.44	0.39	7.6	1.71	1.55	0.37	6.9	2.15	1.31	0.46	10.9	3.46	1.78	0.74	28.2
	5	0.71	0.71	0.12	0.8	1.64	1.39	0.28	4.1	1.56	1.50	0.27	3.7	2.00	1.25	0.34	6.0	3.32	1.71	0.57	16.7
	6	0.42	0.42	0.06	0.2	1.46	1.34	0.21	2.2	1.45	1.42	0.21	2.2	1.83	1.18	0.26	3.5	3.16	1.67	0.45	10.5
	7	0.35	0.35	0.04	0.1	1.29	1.29	0.16	1.3	1.33	1.33	0.16	1.4	1.66	1.11	0.20	2.1	3.01	1.60	0.37	7.0
13	3	0.80	0.80	0.23	2.7	1.70	1.43	0.49	12.1	1.60	1.55	0.46	10.7	2.06	1.29	0.59	17.9	3.38	1.76	0.97	47.8
	4	0.68	0.68	0.15	1.1	1.55	1.37	0.33	5.7	1.50	1.47	0.32	5.3	1.92	1.23	0.41	8.7	3.23	1.70	0.70	24.7
	5	0.49	0.49	0.08	0.4	1.39	1.36	0.24	2.9	1.40	1.40	0.24	3.0	1.76	1.17	0.30	4.7	3.09	1.63	0.53	14.4
	6	0.33	0.33	0.05	0.1	1.26	1.26	0.18	1.7	1.31	1.31	0.19	1.8	1.59	1.11	0.23	2.7	2.93	1.59	0.42	9.0
	7	0.24	0.24	0.03	0.0	1.15	1.15	0.14	1.0	1.20	1.20	0.15	1.1	1.39	1.04	0.17	1.5	2.78	1.52	0.34	5.9

Cooling Capacities

400G12/400G30																					
EWT	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	2.98	2.16	0.85	36.1	4.59	2.76	1.31	85.7	4.49	2.88	1.29	82.2	5.02	2.63	1.44	102.6	6.75	3.27	1.94	185.7
	4	2.80	2.04	0.60	18.0	4.41	2.68	0.95	44.6	4.34	2.80	0.93	43.1	4.82	2.55	1.04	53.2	6.55	3.17	1.41	98.1
	5	2.59	1.95	0.44	9.8	4.22	2.59	0.73	26.1	4.14	2.71	0.71	25.1	4.63	4.01	0.80	31.5	6.34	3.12	1.09	58.9
	6	2.36	1.87	0.34	5.7	4.03	2.51	0.58	16.5	3.95	2.62	0.57	15.9	4.43	2.36	0.64	20.0	6.18	3.01	0.89	38.9
	7	2.12	1.75	0.26	3.4	3.83	2.39	0.47	11.0	3.75	2.53	0.46	10.5	4.24	2.26	0.52	13.5	5.97	2.91	0.73	26.7
6	3	2.69	2.04	0.77	29.5	4.33	2.65	1.24	76.3	4.23	2.77	1.21	72.8	4.76	2.51	1.37	92.4	6.49	3.17	1.86	171.7
	4	2.50	1.94	0.54	14.3	4.16	2.56	0.89	39.6	4.06	2.68	0.87	37.7	4.57	2.43	0.98	47.9	6.29	3.06	1.35	90.5
	5	2.31	1.85	0.40	7.8	3.95	2.47	0.68	22.9	3.88	2.60	0.67	22.0	4.39	2.34	0.76	28.2	6.08	2.96	1.05	54.2
	6	2.07	1.77	0.30	4.4	3.77	2.39	0.54	14.4	3.68	2.50	0.53	13.8	4.17	2.23	0.60	17.7	5.92	2.86	0.85	35.7
	7	1.82	1.64	0.22	2.5	3.57	2.29	0.44	9.5	3.48	2.43	0.43	9.1	3.98	2.14	0.49	11.9	5.71	2.81	0.70	24.4
7	3	2.41	1.91	0.69	23.6	4.04	2.52	1.16	66.5	3.95	2.65	1.13	63.6	4.48	2.39	1.29	81.8	6.18	3.01	1.77	155.6
	4	2.21	1.84	0.47	11.2	3.88	2.44	0.83	34.4	3.77	2.57	0.81	32.6	4.31	2.31	0.93	42.5	6.03	2.96	1.30	83.2
	5	1.99	1.75	0.34	5.8	3.68	2.35	0.63	19.8	3.6	2.48	0.62	19	4.10	2.22	0.70	24.6	5.82	2.86	1.00	49.6
	6	1.76	1.66	0.25	3.1	3.49	2.28	0.50	12.4	3.42	2.39	0.49	11.9	3.91	2.12	0.56	15.6	5.66	2.75	0.81	32.6
	7	1.52	1.52	0.19	1.7	3.30	2.18	0.41	8.1	3.19	2.32	0.39	7.6	3.70	2.03	0.46	10.3	5.45	2.65	0.67	22.3
8	3	2.11	1.81	0.60	18.1	3.77	2.42	1.08	57.8	3.68	2.53	1.05	55.1	4.21	2.26	1.21	72.3	5.92	2.91	1.70	142.8
	4	1.90	1.76	0.41	8.3	3.60	2.33	0.77	29.7	3.49	2.47	0.75	27.9	4.01	2.19	0.86	36.8	5.71	2.81	1.23	74.8
	5	1.68	1.65	0.29	4.2	3.42	2.23	0.59	17.1	3.31	2.37	0.57	16.1	3.84	2.10	0.66	21.6	5.56	2.70	0.96	45.3
	6	1.51	1.51	0.22	2.3	3.19	2.17	0.46	10.4	3.13	2.29	0.45	10.0	3.65	2.01	0.52	13.5	5.35	2.65	0.77	29.1
	7	1.32	1.32	0.16	1.3	3.01	2.07	0.37	6.8	2.91	2.21	0.36	6.4	3.41	1.92	0.42	8.7	5.16	2.55	0.63	19.9
9	3	1.80	1.71	0.52	13.2	3.50	2.31	1.00	49.9	3.40	2.42	0.98	47.1	3.93	2.15	1.13	63.0	5.66	2.81	1.62	130.6
	4	1.64	1.64	0.35	6.1	3.30	2.22	0.71	25.0	3.21	2.35	0.69	23.5	3.73	2.07	0.80	31.9	5.45	2.70	1.17	68.2
	5	1.51	1.46	0.26	3.4	3.13	2.13	0.54	14.3	3.03	2.27	0.52	13.4	3.55	1.98	0.61	18.5	5.30	2.60	0.91	41.2
	6	1.32	1.32	0.19	1.8	2.92	2.05	0.42	8.7	2.82	2.20	0.40	8.1	3.36	1.89	0.48	11.5	5.08	2.54	0.73	26.2
	7	1.08	1.08	0.13	0.9	2.70	1.95	0.33	5.5	2.61	2.10	0.32	5.1	3.13	1.80	0.38	7.3	4.90	2.45	0.60	18.0
10	3	1.59	1.59	0.46	10.3	3.21	2.19	0.92	42.0	3.08	2.33	0.88	38.6	3.66	2.04	1.05	54.5	5.40	2.65	1.55	118.9
	4	1.46	1.46	0.31	4.9	3.01	2.10	0.65	20.8	2.91	2.25	0.63	19.4	3.44	1.96	0.74	27.2	5.18	2.60	1.11	61.4
	5	1.30	1.30	0.22	2.5	2.82	2.04	0.48	11.6	2.70	2.18	0.46	10.7	3.26	1.87	0.56	15.6	5.02	2.50	0.86	36.9
	6	1.12	1.12	0.16	1.3	2.62	1.95	0.38	7.0	2.50	2.10	0.36	6.4	3.05	1.78	0.44	9.5	4.80	2.44	0.69	23.5
	7	0.71	0.71	0.09	0.4	2.39	1.86	0.29	4.3	2.28	2.02	0.28	3.9	2.85	1.69	0.35	6.1	4.59	2.34	0.56	15.7
11	3	1.40	1.40	0.40	8.0	2.90	2.09	0.83	34.2	2.79	2.22	0.80	31.8	3.36	1.93	0.96	46.0	5.10	2.55	1.46	105.8
	4	1.28	1.28	0.28	3.8	2.72	2.02	0.58	16.9	2.61	2.14	0.56	15.6	3.17	1.85	0.68	23.1	4.89	2.48	1.05	54.7
	5	1.11	1.11	0.19	1.8	2.51	1.94	0.43	9.2	2.39	2.09	0.41	8.4	2.97	1.76	0.51	12.9	4.73	2.39	0.81	32.8
	6	0.88	0.88	0.13	0.8	2.29	1.86	0.33	5.3	2.20	1.99	0.31	4.9	2.75	1.67	0.39	7.7	4.51	2.33	0.65	20.7
	7	0.60	0.60	0.07	0.3	2.04	1.79	0.25	3.1	1.96	1.96	0.24	2.9	2.54	1.57	0.31	4.8	4.31	2.23	0.53	13.9
12	3	1.24	1.24	0.35	6.2	2.59	1.99	0.74	27.4	2.47	2.15	0.71	24.8	3.05	1.82	0.88	38.0	4.81	2.45	1.38	94.2
	4	1.09	1.09	0.23	2.7	2.40	1.92	0.52	13.2	2.28	2.07	0.49	11.9	2.87	1.74	0.62	18.9	4.61	2.37	0.99	48.6
	5	0.94	0.94	0.16	1.3	2.19	1.85	0.38	7.0	2.08	2.01	0.36	6.3	2.66	1.66	0.46	10.4	4.43	2.29	0.76	28.8
	6	0.57	0.57	0.08	0.3	1.95	1.79	0.28	3.9	1.93	1.89	0.28	3.8	2.44	1.57	0.35	6.1	4.22	2.22	0.60	18.1
	7	0.47	0.47	0.06	0.2	1.72	1.72	0.21	2.2	1.78	1.78	0.22	2.4	2.22	1.48	0.27	3.7	4.01	2.14	0.49	12.0
13	3	1.06	1.06	0.31	4.6	2.26	1.90	0.65	20.9	2.14	2.06	0.61	18.6	2.75	1.72	0.79	30.9	4.50	2.35	1.29	82.6
	4	0.91	0.91	0.20	1.9	2.07	1.83	0.45	9.8	2.00	1.96	0.43	9.2	2.56	1.64	0.55	15.0	4.31	2.26	0.93	42.6
	5	0.65	0.65	0.11	0.6	1.85	1.81	0.32	5.0	1.87	1.87	0.32	5.1	2.35	1.56	0.40	8.1	4.12	2.18	0.71	24.9
	6	0.44	0.44	0.06	0.2	1.68	1.68	0.24	2.9	1.74	1.74	0.25	3.1	2.12	1.48	0.30	4.6	3.91	2.12	0.56	15.5
	7	0.32	0.32	0.04	0.1	1.54	1.54	0.19	1.8	1.60	1.60	0.20	1.9	1.86	1.39	0.23	2.6	3.70	2.03	0.46	10.3

Cooling Capacities

500G12/500G30																					
EWT	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	3.64	2.64	1.04	41.8	5.61	3.38	1.61	99.2	5.49	3.52	1.57	95.2	6.13	3.22	1.76	118.7	8.25	4.00	2.37	215.1
	4	3.42	2.50	0.74	20.8	5.39	3.28	1.16	51.6	5.30	3.42	1.14	49.9	5.89	3.11	1.27	61.6	8.00	3.87	1.72	113.6
	5	3.16	2.39	0.54	11.4	5.16	3.16	0.89	30.2	5.05	3.31	0.87	29.0	5.66	4.90	0.97	36.4	7.75	3.81	1.33	68.2
	6	2.89	2.29	0.41	6.6	4.93	3.07	0.71	19.2	4.83	3.20	0.69	18.4	5.42	2.88	0.78	23.1	7.56	3.68	1.08	45.0
	7	2.59	2.14	0.32	3.9	4.69	2.93	0.58	12.7	4.58	3.09	0.56	12.1	5.19	2.77	0.64	15.6	7.30	3.56	0.90	30.9
6	3	3.29	2.49	0.94	34.1	5.29	3.24	1.52	88.3	5.17	3.38	1.48	84.3	5.82	3.07	1.67	107.0	7.94	3.87	2.28	198.8
	4	3.05	2.37	0.66	16.6	5.08	3.13	1.09	45.8	4.96	3.27	1.07	43.7	5.59	2.97	1.20	55.4	7.68	3.75	1.65	104.8
	5	2.82	2.26	0.48	9.0	4.83	3.02	0.83	26.5	4.74	3.17	0.81	25.5	5.37	2.86	0.92	32.7	7.43	3.62	1.28	62.7
	6	2.53	2.16	0.36	5.1	4.60	2.93	0.66	16.7	4.50	3.05	0.64	15.9	5.10	2.73	0.73	20.5	7.24	3.49	1.04	41.3
	7	2.23	2.01	0.27	2.9	4.36	2.79	0.54	11.0	4.25	2.97	0.52	10.5	4.87	2.62	0.60	13.7	6.98	3.43	0.86	28.3
7	3	2.94	2.34	0.84	27.3	4.94	3.09	1.42	77.0	4.83	3.24	1.39	73.7	5.48	2.92	1.57	94.8	7.56	3.68	2.17	180.2
	4	2.70	2.25	0.58	12.9	4.74	2.98	1.02	39.8	4.61	3.14	0.99	37.7	5.26	2.83	1.13	49.2	7.37	3.62	1.58	96.3
	5	2.44	2.14	0.42	6.8	4.50	2.87	0.77	23.0	4.4	3.03	0.76	22	5.01	2.71	0.86	28.5	7.11	3.49	1.22	57.5
	6	2.15	2.03	0.31	3.6	4.26	2.79	0.61	14.3	4.18	2.92	0.60	13.8	4.78	2.59	0.69	18.0	6.92	3.37	0.99	37.8
	7	1.86	1.86	0.23	2.0	4.03	2.66	0.50	9.4	3.90	2.83	0.48	8.8	4.53	2.48	0.56	11.9	6.67	3.24	0.82	25.8
8	3	2.58	2.22	0.74	21.0	4.60	2.95	1.32	66.9	4.50	3.09	1.29	63.8	5.15	2.76	1.48	83.7	7.24	3.56	2.07	165.4
	4	2.32	2.15	0.50	9.6	4.40	2.85	0.95	34.4	4.27	3.02	0.92	32.3	4.90	2.68	1.05	42.7	6.98	3.43	1.50	86.6
	5	2.06	2.01	0.35	4.8	4.18	2.73	0.72	19.8	4.05	2.90	0.70	18.6	4.69	2.57	0.81	25.0	6.79	3.30	1.17	52.4
	6	1.85	1.85	0.26	2.7	3.90	2.65	0.56	12.0	3.83	2.79	0.55	11.6	4.46	2.45	0.64	15.7	6.54	3.24	0.94	33.7
	7	1.61	1.61	0.20	1.5	3.68	2.53	0.45	7.8	3.56	2.70	0.44	7.4	4.17	2.35	0.51	10.1	6.31	3.12	0.78	23.1
9	3	2.20	2.09	0.63	15.3	4.28	2.82	1.23	57.8	4.16	2.96	1.19	54.6	4.81	2.63	1.38	72.9	6.92	3.43	1.98	151.2
	4	2.00	2.00	0.43	7.1	4.04	2.72	0.87	29.0	3.92	2.87	0.84	27.2	4.56	2.53	0.98	36.9	6.67	3.30	1.43	78.9
	5	1.85	1.79	0.32	3.9	3.82	2.60	0.66	16.6	3.70	2.77	0.64	15.6	4.34	2.42	0.75	21.4	6.48	3.17	1.11	47.7
	6	1.62	1.62	0.23	2.1	3.57	2.51	0.51	10.0	3.44	2.69	0.49	9.3	4.11	2.30	0.59	13.3	6.20	3.10	0.89	30.4
	7	1.32	1.32	0.16	1.0	3.30	2.39	0.41	6.3	3.19	2.57	0.39	5.9	3.82	2.20	0.47	8.5	5.99	2.99	0.74	20.8
10	3	1.94	1.94	0.56	11.9	3.92	2.67	1.12	48.6	3.77	2.85	1.08	44.7	4.47	2.49	1.28	63.1	6.60	3.24	1.89	137.6
	4	1.78	1.78	0.38	5.7	3.68	2.57	0.79	24.1	3.56	2.76	0.76	22.4	4.21	2.39	0.91	31.5	6.33	3.17	1.36	71.1
	5	1.59	1.59	0.27	2.9	3.44	2.49	0.59	13.5	3.30	2.67	0.57	12.3	3.99	2.29	0.69	18.1	6.13	3.06	1.05	42.7
	6	1.37	1.37	0.20	1.5	3.21	2.38	0.46	8.1	3.06	2.57	0.44	7.4	3.73	2.17	0.53	11.0	5.87	2.98	0.84	27.2
	7	0.87	0.87	0.11	0.4	2.93	2.28	0.36	5.0	2.79	2.47	0.34	4.5	3.49	2.06	0.43	7.0	5.61	2.86	0.69	18.2
11	3	1.71	1.71	0.49	9.3	3.54	2.55	1.02	39.6	3.42	2.72	0.98	36.8	4.11	2.36	1.18	53.3	6.23	3.12	1.79	122.5
	4	1.57	1.57	0.34	4.4	3.32	2.46	0.71	19.6	3.19	2.62	0.69	18.0	3.88	2.26	0.83	26.7	5.97	3.03	1.28	63.4
	5	1.36	1.36	0.23	2.1	3.07	2.37	0.53	10.7	2.93	2.55	0.50	9.7	3.63	2.15	0.62	14.9	5.78	2.93	0.99	38.0
	6	1.08	1.08	0.15	0.9	2.79	2.27	0.40	6.2	2.69	2.44	0.38	5.7	3.37	2.04	0.48	8.9	5.52	2.85	0.79	24.0
	7	0.73	0.73	0.09	0.3	2.49	2.19	0.31	3.6	2.40	2.40	0.29	3.3	3.10	1.92	0.38	5.6	5.26	2.73	0.65	16.1
12	3	1.51	1.51	0.43	7.2	3.17	2.43	0.91	31.7	3.02	2.62	0.86	28.7	3.73	2.23	1.07	44.0	5.88	3.00	1.69	109.1
	4	1.33	1.33	0.29	3.2	2.93	2.35	0.63	15.3	2.79	2.53	0.60	13.8	3.51	2.13	0.75	21.9	5.63	2.90	1.21	56.3
	5	1.15	1.15	0.20	1.5	2.68	2.27	0.46	8.2	2.54	2.45	0.44	7.3	3.26	2.03	0.56	12.1	5.42	2.79	0.93	33.3
	6	0.69	0.69	0.10	0.4	2.38	2.19	0.34	4.5	2.36	2.31	0.34	4.4	2.98	1.92	0.43	7.0	5.16	2.72	0.74	21.0
	7	0.57	0.57	0.07	0.2	2.11	2.11	0.26	2.6	2.17	2.17	0.27	2.7	2.71	1.80	0.33	4.3	4.90	2.61	0.60	13.9
13	3	1.30	1.30	0.37	5.3	2.77	2.32	0.79	24.2	2.61	2.52	0.75	21.5	3.37	2.10	0.96	35.7	5.50	2.88	1.58	95.7
	4	1.11	1.11	0.24	2.2	2.53	2.23	0.54	11.4	2.44	2.40	0.53	10.6	3.12	2.00	0.67	17.3	5.27	2.77	1.13	49.3
	5	0.80	0.80	0.14	0.7	2.26	2.21	0.39	5.8	2.29	2.29	0.39	5.9	2.88	1.90	0.49	9.4	5.03	2.66	0.87	28.8
	6	0.53	0.53	0.08	0.2	2.06	2.06	0.29	3.3	2.13	2.13	0.30	3.6	2.60	1.80	0.37	5.3	4.77	2.59	0.68	18.0
	7	0.39	0.39	0.05	0.1	1.88	1.88	0.23	2.0	1.96	1.96	0.24	2.2	2.27	1.70	0.28	3.0	4.53	2.48	0.56	11.9

Cooling Capacities

600G12/600G30																					
EWT	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	4.55	3.30	1.30	26.6	7.01	4.22	2.01	63.1	6.87	4.40	1.97	60.6	7.67	4.02	2.20	75.6	10.32	5.00	2.96	136.9
	4	4.28	3.12	0.92	13.2	6.74	4.10	1.45	32.8	6.63	4.28	1.42	31.8	7.37	3.89	1.58	39.2	10.00	4.84	2.15	72.3
	5	3.95	2.98	0.68	7.2	6.44	3.95	1.11	19.2	6.32	4.14	1.09	18.5	7.08	6.12	1.22	23.2	9.68	4.76	1.67	43.4
	6	3.61	2.86	0.52	4.2	6.16	3.84	0.88	12.2	6.04	4.00	0.87	11.7	6.77	3.60	0.97	14.7	9.44	4.60	1.35	28.7
	7	3.24	2.67	0.40	2.5	5.86	3.66	0.72	8.1	5.72	3.87	0.70	7.7	6.48	3.46	0.80	9.9	9.13	4.44	1.12	19.7
6	3	4.11	3.11	1.18	21.7	6.61	4.06	1.90	56.2	6.46	4.23	1.85	53.7	7.28	3.84	2.09	68.1	9.92	4.84	2.84	126.5
	4	3.82	2.96	0.82	10.5	6.35	3.91	1.37	29.2	6.20	4.09	1.33	27.8	6.98	3.71	1.50	35.3	9.60	4.68	2.06	66.7
	5	3.52	2.83	0.61	5.7	6.04	3.77	1.04	16.9	5.92	3.97	1.02	16.2	6.71	3.57	1.15	20.8	9.29	4.52	1.60	39.9
	6	3.17	2.70	0.45	3.2	5.75	3.66	0.82	10.6	5.62	3.82	0.81	10.1	6.37	3.41	0.91	13.1	9.05	4.37	1.30	26.3
	7	2.79	2.51	0.34	1.8	5.45	3.49	0.67	7.0	5.32	3.71	0.65	6.7	6.09	3.27	0.75	8.7	8.73	4.29	1.07	18.0
7	3	3.67	2.92	1.05	17.4	6.17	3.86	1.77	49.0	6.04	4.06	1.73	46.9	6.85	3.65	1.96	60.3	9.44	4.60	2.71	114.7
	4	3.37	2.81	0.73	8.2	5.92	3.72	1.27	25.3	5.76	3.92	1.24	24.0	6.58	3.53	1.41	31.3	9.21	4.52	1.98	61.3
	5	3.05	2.67	0.52	4.3	5.62	3.59	0.97	14.6	5.5	3.79	0.95	14	6.26	3.39	1.08	18.1	8.89	4.37	1.53	36.6
	6	2.68	2.54	0.38	2.3	5.33	3.48	0.76	9.1	5.23	3.65	0.75	8.8	5.98	3.24	0.86	11.5	8.65	4.21	1.24	24.1
	7	2.33	2.33	0.29	1.3	5.04	3.33	0.62	6.0	4.87	3.54	0.60	5.6	5.66	3.10	0.70	7.6	8.33	4.05	1.02	16.4
8	3	3.22	2.77	0.92	13.3	5.75	3.69	1.65	42.6	5.62	3.87	1.61	40.6	6.44	3.45	1.85	53.3	9.05	4.44	2.59	105.2
	4	2.90	2.68	0.62	6.1	5.50	3.56	1.18	21.9	5.33	3.78	1.15	20.6	6.13	3.35	1.32	27.1	8.73	4.29	1.88	55.1
	5	2.57	2.52	0.44	3.1	5.22	3.41	0.90	12.6	5.06	3.62	0.87	11.9	5.87	3.21	1.01	15.9	8.49	4.13	1.46	33.4
	6	2.31	2.31	0.33	1.7	4.88	3.31	0.70	7.7	4.79	3.49	0.69	7.4	5.57	3.06	0.80	10.0	8.17	4.05	1.17	21.5
	7	2.02	2.02	0.25	1.0	4.60	3.16	0.56	5.0	4.45	3.37	0.55	4.7	5.21	2.94	0.64	6.4	7.89	3.90	0.97	14.7
9	3	2.75	2.61	0.79	9.8	5.35	3.52	1.53	36.8	5.20	3.70	1.49	34.7	6.01	3.29	1.72	46.4	8.65	4.29	2.48	96.2
	4	2.50	2.50	0.54	4.5	5.05	3.40	1.09	18.4	4.90	3.59	1.05	17.3	5.70	3.17	1.23	23.5	8.33	4.13	1.79	50.2
	5	2.31	2.24	0.40	2.5	4.78	3.25	0.82	10.6	4.63	3.47	0.80	9.9	5.42	3.02	0.93	13.6	8.10	3.97	1.39	30.3
	6	2.02	2.02	0.29	1.3	4.46	3.13	0.64	6.4	4.30	3.36	0.62	5.9	5.13	2.88	0.74	8.5	7.75	3.88	1.11	19.3
	7	1.65	1.65	0.20	0.6	4.13	2.98	0.51	4.0	3.98	3.21	0.49	3.7	4.78	2.75	0.59	5.4	7.49	3.74	0.92	13.3
10	3	2.43	2.43	0.70	7.6	4.90	3.34	1.41	30.9	4.71	3.56	1.35	28.5	5.59	3.11	1.60	40.1	8.25	4.05	2.37	87.6
	4	2.23	2.23	0.48	3.6	4.60	3.21	0.99	15.3	4.44	3.44	0.96	14.3	5.26	2.99	1.13	20.0	7.91	3.97	1.70	45.3
	5	1.99	1.99	0.34	1.8	4.30	3.11	0.74	8.6	4.12	3.33	0.71	7.9	4.98	2.86	0.86	11.5	7.67	3.83	1.32	27.2
	6	1.71	1.71	0.24	0.9	4.01	2.98	0.57	5.2	3.83	3.21	0.55	4.7	4.66	2.71	0.67	7.0	7.33	3.72	1.05	17.3
	7	1.09	1.09	0.13	0.3	3.66	2.85	0.45	3.2	3.48	3.09	0.43	2.9	4.36	2.58	0.54	4.5	7.01	3.57	0.86	11.6
11	3	2.14	2.14	0.61	5.9	4.43	3.19	1.27	25.2	4.27	3.40	1.22	23.4	5.13	2.94	1.47	33.9	7.79	3.90	2.23	77.9
	4	1.96	1.96	0.42	2.8	4.15	3.08	0.89	12.5	3.98	3.27	0.86	11.5	4.85	2.83	1.04	17.0	7.47	3.79	1.61	40.3
	5	1.70	1.70	0.29	1.3	3.83	2.96	0.66	6.8	3.66	3.19	0.63	6.2	4.53	2.69	0.78	9.5	7.23	3.66	1.24	24.2
	6	1.35	1.35	0.19	0.6	3.49	2.84	0.50	3.9	3.36	3.05	0.48	3.6	4.21	2.56	0.60	5.7	6.90	3.56	0.99	15.3
	7	0.91	0.91	0.11	0.2	3.11	2.74	0.38	2.3	3.00	3.00	0.37	2.1	3.87	2.40	0.48	3.5	6.58	3.41	0.81	10.2
12	3	1.89	1.89	0.54	4.6	3.96	3.04	1.14	20.2	3.77	3.28	1.08	18.3	4.67	2.79	1.34	28.0	7.35	3.75	2.11	69.4
	4	1.67	1.67	0.36	2.0	3.67	2.94	0.79	9.7	3.48	3.17	0.75	8.8	4.39	2.66	0.94	13.9	7.04	3.63	1.51	35.8
	5	1.44	1.44	0.25	1.0	3.35	2.83	0.58	5.2	3.17	3.06	0.55	4.7	4.07	2.54	0.70	7.7	6.77	3.49	1.16	21.2
	6	0.87	0.87	0.12	0.2	2.98	2.74	0.43	2.8	2.94	2.89	0.42	2.8	3.73	2.40	0.53	4.5	6.44	3.40	0.92	13.3
	7	0.71	0.71	0.09	0.1	2.63	2.63	0.32	1.6	2.71	2.71	0.33	1.7	3.39	2.25	0.42	2.7	6.13	3.26	0.75	8.9
13	3	1.63	1.63	0.47	3.4	3.46	2.90	0.99	15.4	3.26	3.15	0.94	13.7	4.21	2.63	1.21	22.7	6.88	3.60	1.97	60.9
	4	1.39	1.39	0.30	1.4	3.17	2.79	0.68	7.3	3.06	3.00	0.66	6.8	3.90	2.50	0.84	11.0	6.59	3.46	1.42	31.4
	5	1.00	1.00	0.17	0.5	2.83	2.76	0.49	3.7	2.86	2.86	0.49	3.8	3.60	2.38	0.62	6.0	6.29	3.33	1.08	18.3
	6	0.67	0.67	0.10	0.1	2.57	2.57	0.37	2.1	2.66	2.66	0.38	2.3	3.25	2.25	0.47	3.4	5.97	3.24	0.86	11.4
	7	0.49	0.49	0.06	0.1	2.35	2.35	0.29	1.3	2.44	2.44	0.30	1.4	2.84	2.13	0.35	1.9	5.66	3.10	0.70	7.6

Cooling Capacities

800G12/800G30																					
EWT	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	6.20	4.50	1.78	26.6	9.56	5.76	2.74	63.1	9.36	6.01	2.68	60.6	10.45	5.49	3.00	75.6	14.07	6.82	4.03	136.9
	4	5.83	4.25	1.25	13.2	9.19	5.58	1.98	32.8	9.04	5.83	1.94	31.8	10.04	5.30	2.16	39.2	13.64	6.60	2.93	72.3
	5	5.39	4.07	0.93	7.2	8.79	5.39	1.51	19.2	8.61	5.65	1.48	18.5	9.65	8.34	1.66	23.2	13.20	6.49	2.27	43.4
	6	4.92	3.90	0.71	4.2	8.40	5.24	1.20	12.2	8.24	5.45	1.18	11.7	9.23	4.91	1.32	14.7	12.88	6.28	1.85	28.7
	7	4.42	3.65	0.54	2.5	7.99	4.99	0.98	8.1	7.80	5.27	0.96	7.7	8.84	4.72	1.09	9.9	12.45	6.06	1.53	19.7
6	3	5.61	4.24	1.61	21.7	9.02	5.53	2.58	56.2	8.81	5.77	2.53	53.7	9.92	5.24	2.84	68.1	13.53	6.60	3.88	126.5
	4	5.21	4.04	1.12	10.5	8.66	5.34	1.86	29.2	8.45	5.57	1.82	27.8	9.52	5.06	2.05	35.3	13.10	6.39	2.82	66.7
	5	4.81	3.85	0.83	5.7	8.24	5.14	1.42	16.9	8.07	5.41	1.39	16.2	9.15	4.87	1.57	20.8	12.66	6.17	2.18	39.9
	6	4.32	3.68	0.62	3.2	7.85	4.99	1.12	10.6	7.66	5.21	1.10	10.1	8.69	4.65	1.25	13.1	12.34	5.95	1.77	26.3
	7	3.80	3.42	0.47	1.8	7.44	4.76	0.91	7.0	7.25	5.06	0.89	6.7	8.30	4.46	1.02	8.7	11.90	5.84	1.46	18.0
7	3	5.01	3.98	1.44	17.4	8.42	5.26	2.41	49.0	8.24	5.53	2.36	46.9	9.34	4.98	2.68	60.3	12.88	6.28	3.69	114.7
	4	4.60	3.83	0.99	8.2	8.07	5.08	1.74	25.3	7.86	5.35	1.69	24.0	8.97	4.82	1.93	31.3	12.55	6.17	2.70	61.3
	5	4.16	3.65	0.71	4.3	7.66	4.89	1.32	14.6	7.5	5.16	1.29	14	8.54	4.62	1.47	18.1	12.12	5.95	2.08	36.6
	6	3.66	3.46	0.52	2.3	7.26	4.75	1.04	9.1	7.13	4.98	1.02	8.8	8.15	4.42	1.17	11.5	11.80	5.74	1.69	24.1
	7	3.17	3.17	0.39	1.3	6.87	4.53	0.84	6.0	6.65	4.83	0.82	5.6	7.72	4.23	0.95	7.6	11.36	5.52	1.40	16.4
8	3	4.39	3.78	1.26	13.3	7.85	5.03	2.25	42.6	7.66	5.27	2.20	40.6	8.78	4.71	2.52	53.3	12.34	6.06	3.54	105.2
	4	3.96	3.66	0.85	6.1	7.50	4.86	1.61	21.9	7.27	5.15	1.56	20.6	8.35	4.57	1.80	27.1	11.90	5.84	2.56	55.1
	5	3.51	3.43	0.60	3.1	7.12	4.65	1.22	12.6	6.90	4.94	1.19	11.9	8.00	4.38	1.38	15.9	11.58	5.63	1.99	33.4
	6	3.15	3.15	0.45	1.7	6.66	4.51	0.95	7.7	6.53	4.76	0.94	7.4	7.60	4.18	1.09	10.0	11.15	5.52	1.60	21.5
	7	2.75	2.75	0.34	1.0	6.27	4.31	0.77	5.0	6.07	4.60	0.75	4.7	7.11	4.00	0.87	6.4	10.76	5.31	1.32	14.7
9	3	3.76	3.56	1.08	9.8	7.29	4.81	2.09	36.8	7.09	5.04	2.03	34.7	8.19	4.48	2.35	46.4	11.80	5.84	3.38	96.2
	4	3.41	3.41	0.73	4.5	6.88	4.63	1.48	18.4	6.68	4.89	1.44	17.3	7.77	4.32	1.67	23.5	11.36	5.63	2.44	50.2
	5	3.15	3.05	0.54	2.5	6.52	4.44	1.12	10.6	6.31	4.73	1.09	9.9	7.39	4.12	1.27	13.6	11.04	5.41	1.90	30.3
	6	2.76	2.76	0.40	1.3	6.08	4.27	0.87	6.4	5.87	4.58	0.84	5.9	7.00	3.93	1.00	8.5	10.57	5.29	1.52	19.3
	7	2.25	2.25	0.28	0.6	5.63	4.07	0.69	4.0	5.43	4.37	0.67	3.7	6.52	3.76	0.80	5.4	10.22	5.10	1.26	13.3
10	3	3.31	3.31	0.95	7.6	6.69	4.56	1.92	30.9	6.42	4.86	1.84	28.5	7.62	4.24	2.18	40.1	11.26	5.52	3.23	87.6
	4	3.04	3.04	0.65	3.6	6.28	4.38	1.35	15.3	6.06	4.70	1.30	14.3	7.18	4.08	1.54	20.0	10.79	5.41	2.32	45.3
	5	2.72	2.72	0.47	1.8	5.87	4.24	1.01	8.6	5.62	4.55	0.97	7.9	6.80	3.90	1.17	11.5	10.45	5.22	1.80	27.2
	6	2.33	2.33	0.33	0.9	5.47	4.06	0.78	5.2	5.22	4.37	0.75	4.7	6.35	3.70	0.91	7.0	10.00	5.08	1.43	17.3
	7	1.48	1.48	0.18	0.3	4.99	3.89	0.61	3.2	4.75	4.21	0.58	2.9	5.94	3.52	0.73	4.5	9.56	4.87	1.17	11.6
11	3	2.92	2.92	0.84	5.9	6.04	4.35	1.73	25.2	5.82	4.63	1.67	23.4	7.00	4.02	2.01	33.9	10.62	5.31	3.04	77.9
	4	2.67	2.67	0.57	2.8	5.66	4.20	1.22	12.5	5.43	4.46	1.17	11.5	6.61	3.85	1.42	17.0	10.18	5.17	2.19	40.3
	5	2.32	2.32	0.40	1.3	5.23	4.04	0.90	6.8	4.99	4.35	0.86	6.2	6.18	3.67	1.06	9.5	9.86	4.99	1.70	24.2
	6	1.84	1.84	0.26	0.6	4.76	3.87	0.68	3.9	4.58	4.16	0.66	3.6	5.74	3.48	0.82	5.7	9.40	4.86	1.35	15.3
	7	1.24	1.24	0.15	0.2	4.24	3.73	0.52	2.3	4.09	4.09	0.50	2.1	5.28	3.28	0.65	3.5	8.97	4.65	1.10	10.2
12	3	2.58	2.58	0.74	4.6	5.40	4.15	1.55	20.2	5.14	4.47	1.47	18.3	6.36	3.80	1.82	28.0	10.02	5.11	2.87	69.4
	4	2.27	2.27	0.49	2.0	5.00	4.00	1.08	9.7	4.75	4.32	1.02	8.8	5.98	3.63	1.29	13.9	9.60	4.95	2.06	35.8
	5	1.96	1.96	0.34	1.0	4.57	3.86	0.79	5.2	4.33	4.18	0.74	4.7	5.55	3.46	0.95	7.7	9.23	4.76	1.59	21.2
	6	1.18	1.18	0.17	0.2	4.06	3.73	0.58	2.8	4.02	3.94	0.58	2.8	5.09	3.27	0.73	4.5	8.79	4.63	1.26	13.3
	7	0.97	0.97	0.12	0.1	3.59	3.59	0.44	1.6	3.70	3.70	0.45	1.7	4.62	3.07	0.57	2.7	8.35	4.45	1.03	8.9
13	3	2.22	2.22	0.64	3.4	4.72	3.96	1.35	15.4	4.45	4.30	1.28	13.7	5.74	3.58	1.64	22.7	9.38	4.90	2.69	60.9
	4	1.89	1.89	0.41	1.4	4.32	3.81	0.93	7.3	4.17	4.09	0.90	6.8	5.32	3.41	1.14	11.0	8.98	4.72	1.93	31.4
	5	1.36	1.36	0.23	0.5	3.85	3.77	0.66	3.7	3.90	3.90	0.67	3.8	4.90	3.25	0.84	6.0	8.58	4.53	1.48	18.3
	6	0.91	0.91	0.13	0.1	3.51	3.51	0.50	2.1	3.63	3.63	0.52	2.3	4.43	3.07	0.63	3.4	8.14	4.42	1.17	11.4
	7	0.67	0.67	0.08	0.1	3.20	3.20	0.39	1.3	3.33	3.33	0.41	1.4	3.87	2.90	0.48	1.9	7.72	4.23	0.95	7.6

Cooling Capacities

1000G12/1000G30																					
EWT	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	7.36	5.34	2.11	41.8	11.34	6.83	3.25	99.2	11.11	7.13	3.18	95.2	12.41	6.51	3.56	118.7	16.70	8.09	4.79	215.1
	4	6.92	5.05	1.49	20.8	10.90	6.63	2.34	51.6	10.72	6.92	2.31	49.9	11.92	6.29	2.56	61.6	16.18	7.83	3.48	113.6
	5	6.40	4.83	1.10	11.4	10.43	6.40	1.79	30.2	10.22	6.70	1.76	29.0	11.46	9.90	1.97	36.4	15.67	7.71	2.69	68.2
	6	5.84	4.62	0.84	6.6	9.97	6.22	1.43	19.2	9.77	6.47	1.40	18.4	10.95	5.83	1.57	23.1	15.28	7.45	2.19	45.0
	7	5.24	4.33	0.64	3.9	9.48	5.92	1.16	12.7	9.26	6.25	1.14	12.1	10.49	5.60	1.29	15.6	14.77	7.19	1.81	30.9
6	3	6.65	5.03	1.91	34.1	10.70	6.56	3.07	88.3	10.45	6.85	3.00	84.3	11.78	6.22	3.38	107.0	16.05	7.83	4.60	198.8
	4	6.18	4.79	1.33	16.6	10.27	6.33	2.21	45.8	10.03	6.61	2.16	43.7	11.30	6.01	2.43	55.4	15.54	7.58	3.34	104.8
	5	5.70	4.57	0.98	9.0	9.77	6.10	1.68	26.5	9.58	6.42	1.65	25.5	10.85	5.78	1.87	32.7	15.03	7.32	2.58	62.7
	6	5.12	4.37	0.73	5.1	9.31	5.92	1.33	16.7	9.09	6.18	1.30	15.9	10.31	5.52	1.48	20.5	14.64	7.06	2.10	41.3
	7	4.51	4.06	0.55	2.9	8.82	5.65	1.08	11.0	8.60	6.01	1.06	10.5	9.85	5.29	1.21	13.7	14.13	6.94	1.74	28.3
7	3	5.95	4.73	1.70	27.3	9.99	6.24	2.86	77.0	9.77	6.56	2.80	73.7	11.08	5.91	3.18	94.8	15.28	7.45	4.38	180.2
	4	5.46	4.55	1.17	12.9	9.58	6.02	2.06	39.8	9.32	6.34	2.00	37.7	10.65	5.72	2.29	49.2	14.90	7.32	3.20	96.3
	5	4.93	4.33	0.85	6.8	9.09	5.80	1.56	23.0	8.9	6.13	1.53	22	10.13	5.48	1.74	28.5	14.38	7.06	2.47	57.5
	6	4.34	4.11	0.62	3.6	8.62	5.64	1.24	14.3	8.46	5.91	1.21	13.8	9.67	5.24	1.39	18.0	14.00	6.81	2.01	37.8
	7	3.76	3.76	0.46	2.0	8.16	5.38	1.00	9.4	7.89	5.73	0.97	8.8	9.16	5.02	1.12	11.9	13.48	6.55	1.66	25.8
8	3	5.21	4.48	1.49	21.0	9.31	5.97	2.67	66.9	9.09	6.25	2.61	63.8	10.42	5.59	2.99	83.7	14.64	7.19	4.20	165.4
	4	4.70	4.34	1.01	9.6	8.90	5.77	1.91	34.4	8.63	6.11	1.86	32.3	9.91	5.42	2.13	42.7	14.13	6.94	3.04	86.6
	5	4.16	4.07	0.72	4.8	8.45	5.52	1.45	19.8	8.19	5.86	1.41	18.6	9.49	5.20	1.63	25.0	13.74	6.68	2.36	52.4
	6	3.74	3.74	0.54	2.7	7.90	5.36	1.13	12.0	7.74	5.65	1.11	11.6	9.02	4.96	1.29	15.7	13.23	6.55	1.90	33.7
	7	3.26	3.26	0.40	1.5	7.44	5.11	0.91	7.8	7.20	5.46	0.89	7.4	8.44	4.75	1.04	10.1	12.77	6.31	1.57	23.1
9	3	4.46	4.23	1.28	15.3	8.66	5.70	2.48	57.8	8.41	5.98	2.41	54.6	9.72	5.32	2.79	72.9	14.00	6.94	4.01	151.2
	4	4.05	4.05	0.87	7.1	8.17	5.50	1.76	29.0	7.92	5.80	1.70	27.2	9.22	5.12	1.98	36.9	13.48	6.68	2.90	78.9
	5	3.74	3.62	0.64	3.9	7.73	5.27	1.33	16.6	7.49	5.61	1.29	15.6	8.77	4.89	1.51	21.4	13.10	6.42	2.25	47.7
	6	3.27	3.27	0.47	2.1	7.22	5.07	1.03	10.0	6.96	5.43	1.00	9.3	8.31	4.66	1.19	13.3	12.55	6.28	1.80	30.4
	7	2.67	2.67	0.33	1.0	6.68	4.83	0.82	6.3	6.45	5.19	0.79	5.9	7.73	4.46	0.95	8.5	12.12	6.05	1.49	20.8
10	3	3.93	3.93	1.13	11.9	7.94	5.41	2.28	48.6	7.62	5.77	2.18	44.7	9.04	5.03	2.59	63.1	13.36	6.55	3.83	137.6
	4	3.61	3.61	0.78	5.7	7.45	5.20	1.60	24.1	7.19	5.57	1.55	22.4	8.51	4.84	1.83	31.5	12.80	6.42	2.75	71.1
	5	3.22	3.22	0.55	2.9	6.96	5.03	1.20	13.5	6.67	5.39	1.15	12.3	8.07	4.62	1.39	18.1	12.41	6.19	2.13	42.7
	6	2.76	2.76	0.40	1.5	6.49	4.82	0.93	8.1	6.19	5.19	0.89	7.4	7.54	4.39	1.08	11.0	11.87	6.02	1.70	27.2
	7	1.76	1.76	0.22	0.4	5.92	4.61	0.73	5.0	5.64	5.00	0.69	4.5	7.05	4.17	0.87	7.0	11.34	5.78	1.39	18.2
11	3	3.47	3.47	0.99	9.3	7.17	5.16	2.05	39.6	6.91	5.50	1.98	36.8	8.31	4.76	2.38	53.3	12.60	6.31	3.61	122.5
	4	3.17	3.17	0.68	4.4	6.72	4.98	1.44	19.6	6.45	5.29	1.39	18.0	7.85	4.57	1.69	26.7	12.08	6.14	2.60	63.4
	5	2.75	2.75	0.47	2.1	6.20	4.79	1.07	10.7	5.92	5.16	1.02	9.7	7.33	4.35	1.26	14.9	11.70	5.92	2.01	38.0
	6	2.18	2.18	0.31	0.9	5.65	4.60	0.81	6.2	5.43	4.93	0.78	5.7	6.81	4.14	0.98	8.9	11.16	5.77	1.60	24.0
	7	1.48	1.48	0.18	0.3	5.03	4.43	0.62	3.6	4.85	4.85	0.60	3.3	6.27	3.89	0.77	5.6	10.65	5.52	1.31	16.1
12	3	3.06	3.06	0.88	7.2	6.41	4.92	1.84	31.7	6.10	5.30	1.75	28.7	7.55	4.51	2.16	44.0	11.89	6.06	3.41	109.1
	4	2.70	2.70	0.58	3.2	5.93	4.75	1.28	15.3	5.64	5.12	1.21	13.8	7.10	4.30	1.53	21.9	11.39	5.87	2.45	56.3
	5	2.32	2.32	0.40	1.5	5.42	4.58	0.93	8.2	5.14	4.96	0.88	7.3	6.59	4.11	1.13	12.1	10.95	5.65	1.88	33.3
	6	1.40	1.40	0.20	0.4	4.82	4.43	0.69	4.5	4.76	4.67	0.68	4.4	6.04	3.88	0.87	7.0	10.43	5.50	1.49	21.0
	7	1.16	1.16	0.14	0.2	4.26	4.26	0.52	2.6	4.39	4.39	0.54	2.7	5.48	3.65	0.67	4.3	9.91	5.28	1.22	13.9
13	3	2.63	2.63	0.75	5.3	5.60	4.70	1.61	24.2	5.28	5.10	1.51	21.5	6.81	4.25	1.95	35.7	11.13	5.82	3.19	95.7
	4	2.25	2.25	0.48	2.2	5.12	4.52	1.10	11.4	4.94	4.85	1.06	10.6	6.32	4.05	1.36	17.3	10.66	5.60	2.29	49.3
	5	1.62	1.62	0.28	0.7	4.57	4.47	0.79	5.8	4.62	4.62	0.80	5.9	5.82	3.85	1.00	9.4	10.18	5.38	1.75	28.8
	6	1.08	1.08	0.15	0.2	4.16	4.16	0.60	3.3	4.30	4.30	0.62	3.6	5.25	3.65	0.75	5.3	9.66	5.24	1.38	18.0
	7	0.80	0.80	0.10	0.1	3.80	3.80	0.47	2.0	3.96	3.96	0.49	2.2	4.60	3.44	0.56	3.0	9.16	5.02	1.12	11.9

Cooling Capacities

1200G12/1200G30																					
EWT	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	8.93	6.48	2.56	74.1	13.76	8.29	3.94	175.9	13.48	8.65	3.86	168.8	15.05	7.90	4.32	210.5	20.26	9.82	5.81	381.2
	4	8.40	6.12	1.81	36.9	13.23	8.04	2.84	91.5	13.01	8.40	2.80	88.5	14.46	7.64	3.11	109.3	19.64	9.51	4.22	201.4
	5	7.76	5.86	1.33	20.1	12.65	7.76	2.18	53.5	12.41	8.14	2.13	51.5	13.90	12.02	2.39	64.6	19.01	9.35	3.27	120.9
	6	7.09	5.61	1.02	11.7	12.09	7.54	1.73	34.0	11.86	7.85	1.70	32.7	13.29	7.08	1.91	41.0	18.55	9.04	2.66	79.9
	7	6.36	5.25	0.78	6.9	11.50	7.18	1.41	22.6	11.24	7.59	1.38	21.5	12.73	6.79	1.56	27.7	17.92	8.73	2.20	54.8
6	3	8.07	6.11	2.31	60.5	12.98	7.96	3.72	156.5	12.69	8.31	3.64	149.5	14.29	7.54	4.10	189.7	19.48	9.51	5.58	352.5
	4	7.50	5.81	1.61	29.4	12.47	7.68	2.68	81.2	12.17	8.03	2.62	77.4	13.71	7.29	2.95	98.3	18.86	9.19	4.05	185.8
	5	6.92	5.55	1.19	16.0	11.86	7.40	2.04	47.0	11.63	7.79	2.00	45.2	13.17	7.01	2.27	58.0	18.23	8.88	3.14	111.2
	6	6.22	5.30	0.89	9.0	11.30	7.18	1.62	29.6	11.03	7.50	1.58	28.3	12.51	6.70	1.79	36.4	17.77	8.57	2.55	73.3
	7	5.47	4.92	0.67	5.1	10.71	6.86	1.32	19.6	10.44	7.29	1.28	18.6	11.95	6.42	1.47	24.4	17.14	8.42	2.11	50.1
7	3	7.22	5.74	2.07	48.4	12.12	7.57	3.48	136.5	11.86	7.96	3.40	130.6	13.45	7.17	3.86	168.0	18.55	9.04	5.32	319.4
	4	6.62	5.52	1.42	22.9	11.63	7.31	2.50	70.6	11.31	7.70	2.43	66.9	12.92	6.94	2.78	87.2	18.08	8.88	3.89	170.7
	5	5.98	5.25	1.03	12.0	11.03	7.04	1.90	40.7	10.8	7.43	1.86	39	12.30	6.65	2.11	50.6	17.45	8.57	3.00	101.9
	6	5.27	4.99	0.76	6.4	10.46	6.84	1.50	25.4	10.27	7.17	1.47	24.5	11.74	6.36	1.68	32.0	16.99	8.26	2.43	67.0
	7	4.57	4.57	0.56	3.6	9.90	6.53	1.22	16.7	9.57	6.95	1.18	15.6	11.11	6.09	1.37	21.1	16.36	7.95	2.01	45.7
8	3	6.33	5.44	1.81	37.2	11.30	7.25	3.24	118.6	11.03	7.59	3.16	113.1	12.64	6.78	3.62	148.4	17.77	8.73	5.09	293.2
	4	5.70	5.27	1.23	17.0	10.80	7.00	2.32	60.9	10.47	7.42	2.25	57.3	12.03	6.58	2.59	75.6	17.14	8.42	3.69	153.5
	5	5.05	4.94	0.87	8.5	10.25	6.70	1.76	35.2	9.94	7.11	1.71	33.1	11.52	6.31	1.98	44.3	16.68	8.10	2.87	93.0
	6	4.54	4.54	0.65	4.8	9.58	6.50	1.37	21.3	9.40	6.86	1.35	20.5	10.94	6.02	1.57	27.8	16.05	7.95	2.30	59.8
	7	3.96	3.96	0.49	2.7	9.02	6.20	1.11	13.9	8.74	6.62	1.07	13.0	10.24	5.77	1.26	17.9	15.49	7.65	1.90	40.9
9	3	5.41	5.13	1.55	27.2	10.50	6.92	3.01	102.5	10.21	7.26	2.93	96.8	11.80	6.45	3.38	129.3	16.99	8.42	4.87	268.0
	4	4.91	4.91	1.06	12.6	9.91	6.67	2.13	51.3	9.62	7.04	2.07	48.3	11.19	6.22	2.41	65.4	16.36	8.10	3.52	139.9
	5	4.54	4.39	0.78	6.9	9.38	6.39	1.61	29.4	9.09	6.81	1.56	27.6	10.64	5.94	1.83	37.9	15.90	7.79	2.73	84.5
	6	3.97	3.97	0.57	3.7	8.76	6.16	1.26	17.8	8.45	6.59	1.21	16.6	10.08	5.66	1.45	23.6	15.23	7.62	2.18	53.8
	7	3.24	3.24	0.40	1.8	8.10	5.86	1.00	11.2	7.82	6.30	0.96	10.4	9.38	5.41	1.15	15.0	14.71	7.34	1.81	36.9
10	3	4.77	4.77	1.37	21.1	9.63	6.56	2.76	86.2	9.24	7.00	2.65	79.3	10.97	6.11	3.15	111.8	16.21	7.95	4.65	244.0
	4	4.38	4.38	0.94	10.0	9.04	6.31	1.94	42.7	8.73	6.76	1.88	39.8	10.33	5.88	2.22	55.8	15.54	7.79	3.34	126.1
	5	3.91	3.91	0.67	5.1	8.45	6.11	1.45	23.9	8.09	6.55	1.39	21.9	9.79	5.61	1.68	32.0	15.05	7.51	2.59	75.8
	6	3.35	3.35	0.48	2.6	7.87	5.84	1.13	14.4	7.51	6.30	1.08	13.1	9.15	5.33	1.31	19.4	14.40	7.31	2.06	48.1
	7	2.14	2.14	0.26	0.8	7.18	5.59	0.88	8.8	6.84	6.06	0.84	8.0	8.56	5.06	1.05	12.5	13.76	7.01	1.69	32.3
11	3	4.21	4.21	1.21	16.4	8.70	6.26	2.49	70.2	8.38	6.67	2.40	65.3	10.08	5.78	2.89	94.4	15.29	7.65	4.38	217.1
	4	3.85	3.85	0.83	7.7	8.15	6.05	1.75	34.7	7.82	6.42	1.68	32.0	9.52	5.55	2.05	47.4	14.66	7.45	3.15	112.4
	5	3.34	3.34	0.57	3.7	7.53	5.81	1.29	18.9	7.18	6.26	1.24	17.3	8.90	5.28	1.53	26.5	14.20	7.18	2.44	67.4
	6	2.65	2.65	0.38	1.6	6.86	5.58	0.98	10.9	6.59	5.98	0.94	10.1	8.26	5.02	1.18	15.8	13.54	7.00	1.94	42.6
	7	1.79	1.79	0.22	0.5	6.11	5.38	0.75	6.4	5.89	5.89	0.72	5.9	7.61	4.72	0.93	9.9	12.92	6.70	1.59	28.5
12	3	3.71	3.71	1.06	12.8	7.78	5.97	2.23	56.2	7.40	6.44	2.12	50.9	9.16	5.47	2.63	78.0	14.43	7.36	4.14	193.4
	4	3.27	3.27	0.70	5.6	7.20	5.77	1.55	27.1	6.84	6.22	1.47	24.5	8.62	5.22	1.85	38.8	13.82	7.12	2.97	99.8
	5	2.82	2.82	0.49	2.7	6.58	5.56	1.13	14.5	6.23	6.02	1.07	13.0	7.99	4.99	1.38	21.4	13.29	6.86	2.29	59.1
	6	1.70	1.70	0.24	0.7	5.84	5.38	0.84	7.9	5.78	5.67	0.83	7.8	7.32	4.71	1.05	12.5	12.65	6.67	1.81	37.2
	7	1.40	1.40	0.17	0.3	5.17	5.17	0.64	4.6	5.33	5.33	0.65	4.8	6.65	4.43	0.82	7.6	12.03	6.41	1.48	24.7
13	3	3.19	3.19	0.92	9.5	6.79	5.70	1.95	42.9	6.41	6.19	1.84	38.1	8.26	5.16	2.37	63.4	13.51	7.06	3.87	169.6
	4	2.73	2.73	0.59	3.9	6.22	5.49	1.34	20.2	6.00	5.89	1.29	18.8	7.67	4.91	1.65	30.7	12.94	6.79	2.78	87.4
	5	1.96	1.96	0.34	1.3	5.55	5.42	0.95	10.3	5.61	5.61	0.96	10.5	7.06	4.68	1.21	16.7	12.36	6.53	2.13	51.1
	6	1.31	1.31	0.19	0.4	5.05	5.05	0.72	5.9	5.22	5.22	0.75	6.3	6.37	4.43	0.91	9.4	11.72	6.36	1.68	31.9
	7	0.97	0.97	0.12	0.2	4.61	4.61	0.57	3.6	4.80	4.80	0.59	3.9	5.58	4.18	0.69	5.3	11.11	6.09	1.37	21.1

Cooling Capacities

1400G12/1400G30																					
EWT	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	10.17	7.38	2.92	87.4	15.67	9.44	4.49	207.4	15.35	9.85	4.40	199.1	17.15	9.00	4.92	248.3	23.07	11.18	6.61	449.7
	4	9.57	6.98	2.06	43.5	15.07	9.16	3.24	107.9	14.82	9.57	3.19	104.3	16.47	8.70	3.54	128.9	22.36	10.83	4.81	237.6
	5	8.84	6.67	1.52	23.8	14.41	8.84	2.48	63.2	14.13	9.26	2.43	60.7	15.83	13.68	2.72	76.2	21.65	10.65	3.72	142.6
	6	8.08	6.39	1.16	13.8	13.77	8.59	1.97	40.1	13.51	8.95	1.94	38.5	15.14	8.06	2.17	48.4	21.12	10.29	3.03	94.2
	7	7.24	5.98	0.89	8.1	13.10	8.18	1.61	26.6	12.80	8.64	1.57	25.4	14.50	7.74	1.78	32.6	20.41	9.94	2.51	64.6
6	3	9.19	6.96	2.64	71.4	14.78	9.07	4.24	184.6	14.45	9.46	4.14	176.3	16.28	8.59	4.67	223.7	22.19	10.83	6.36	415.7
	4	8.54	6.62	1.84	34.6	14.20	8.75	3.05	95.8	13.86	9.14	2.98	91.3	15.62	8.31	3.36	115.9	21.48	10.47	4.62	219.1
	5	7.88	6.32	1.36	18.9	13.51	8.43	2.32	55.5	13.24	8.87	2.28	53.3	15.00	7.99	2.58	68.4	20.77	10.12	3.57	131.1
	6	7.08	6.03	1.02	10.6	12.87	8.18	1.84	35.0	12.57	8.54	1.80	33.3	14.25	7.63	2.04	42.9	20.23	9.76	2.90	86.4
	7	6.23	5.61	0.77	6.0	12.19	7.81	1.50	23.1	11.89	8.31	1.46	21.9	13.61	7.31	1.67	28.7	19.52	9.58	2.40	59.1
7	3	8.22	6.53	2.36	57.0	13.81	8.63	3.96	161.0	13.51	9.07	3.87	154.1	15.32	8.16	4.39	198.2	21.12	10.29	6.05	376.8
	4	7.54	6.28	1.62	27.0	13.24	8.32	2.85	83.3	12.89	8.77	2.77	78.9	14.71	7.90	3.16	102.9	20.59	10.12	4.43	201.4
	5	6.82	5.98	1.17	14.1	12.57	8.02	2.16	48.0	12.3	8.47	2.12	46	14.00	7.58	2.41	59.6	19.88	9.76	3.42	120.2
	6	6.00	5.68	0.86	7.6	11.91	7.79	1.71	29.9	11.70	8.16	1.68	28.9	13.36	7.24	1.92	37.7	19.35	9.41	2.77	79.0
	7	5.20	5.20	0.64	4.2	11.27	7.44	1.38	19.7	10.90	7.92	1.34	18.4	12.65	6.94	1.55	24.8	18.64	9.05	2.29	53.9
8	3	7.21	6.19	2.07	43.9	12.87	8.25	3.69	139.9	12.57	8.64	3.60	133.4	14.39	7.72	4.13	175.0	20.23	9.94	5.80	345.8
	4	6.50	6.00	1.40	20.0	12.30	7.97	2.64	71.9	11.93	8.45	2.56	67.6	13.70	7.49	2.95	89.2	19.52	9.58	4.20	181.1
	5	5.75	5.63	0.99	10.1	11.68	7.63	2.01	41.5	11.32	8.09	1.95	39.0	13.12	7.19	2.26	52.3	18.99	9.23	3.27	109.7
	6	5.16	5.16	0.74	5.6	10.92	7.40	1.56	25.2	10.70	7.81	1.53	24.2	12.46	6.85	1.79	32.8	18.28	9.05	2.62	70.6
	7	4.51	4.51	0.55	3.2	10.28	7.06	1.26	16.4	9.96	7.54	1.22	15.4	11.66	6.57	1.43	21.1	17.64	8.71	2.17	48.3
9	3	6.16	5.84	1.77	32.0	11.96	7.88	3.43	120.9	11.63	8.27	3.33	114.1	13.44	7.35	3.85	152.5	19.35	9.58	5.55	316.1
	4	5.59	5.59	1.20	14.9	11.29	7.60	2.43	60.5	10.95	8.02	2.35	57.0	12.74	7.08	2.74	77.2	18.64	9.23	4.01	165.0
	5	5.16	5.01	0.89	8.1	10.68	7.28	1.84	34.7	10.35	7.76	1.78	32.6	12.12	6.76	2.09	44.7	18.10	8.87	3.11	99.7
	6	4.53	4.53	0.65	4.3	9.97	7.01	1.43	21.0	9.62	7.51	1.38	19.5	11.48	6.44	1.65	27.8	17.34	8.68	2.49	63.5
	7	3.69	3.69	0.45	2.1	9.23	6.67	1.13	13.2	8.91	7.17	1.09	12.3	10.68	6.16	1.31	17.7	16.75	8.36	2.06	43.5
10	3	5.43	5.43	1.56	24.9	10.97	7.47	3.14	101.6	10.53	7.97	3.02	93.6	12.50	6.96	3.58	131.9	18.46	9.05	5.29	287.8
	4	4.99	4.99	1.07	11.8	10.29	7.19	2.21	50.3	9.94	7.70	2.14	46.9	11.77	6.69	2.53	65.8	17.70	8.87	3.80	148.8
	5	4.45	4.45	0.77	6.0	9.62	6.96	1.65	28.1	9.21	7.45	1.58	25.8	11.15	6.39	1.92	37.8	17.15	8.55	2.95	89.4
	6	3.82	3.82	0.55	3.1	8.96	6.66	1.28	17.0	8.55	7.17	1.23	15.5	10.42	6.07	1.49	22.9	16.40	8.32	2.35	56.8
	7	2.43	2.43	0.30	0.9	8.18	6.37	1.01	10.4	7.79	6.90	0.96	9.4	9.74	5.77	1.20	14.7	15.67	7.99	1.93	38.1
11	3	4.79	4.79	1.37	19.4	9.90	7.14	2.84	82.8	9.55	7.60	2.74	77.0	11.48	6.58	3.29	111.4	17.41	8.71	4.99	256.1
	4	4.38	4.38	0.94	9.1	9.28	6.89	2.00	40.9	8.91	7.31	1.92	37.7	10.84	6.32	2.33	55.9	16.70	8.48	3.59	132.5
	5	3.80	3.80	0.65	4.4	8.57	6.62	1.47	22.3	8.18	7.14	1.41	20.4	10.13	6.02	1.74	31.2	16.17	8.18	2.78	79.5
	6	3.02	3.02	0.43	1.9	7.81	6.35	1.12	12.9	7.51	6.82	1.08	11.9	9.41	5.72	1.35	18.7	15.42	7.97	2.21	50.2
	7	2.04	2.04	0.25	0.6	6.96	6.12	0.85	7.5	6.71	6.71	0.82	7.0	8.66	5.38	1.06	11.6	14.71	7.63	1.81	33.6
12	3	4.22	4.22	1.21	15.1	8.86	6.80	2.54	66.3	8.43	7.33	2.42	60.0	10.44	6.23	2.99	92.0	16.44	8.38	4.71	228.1
	4	3.73	3.73	0.80	6.6	8.20	6.57	1.76	31.9	7.79	7.08	1.68	28.8	9.82	5.95	2.11	45.8	15.74	8.11	3.38	117.7
	5	3.21	3.21	0.55	3.1	7.49	6.34	1.29	17.1	7.10	6.85	1.22	15.3	9.11	5.68	1.57	25.2	15.14	7.81	2.60	69.7
	6	1.93	1.93	0.28	0.8	6.66	6.12	0.95	9.4	6.58	6.46	0.94	9.2	8.34	5.36	1.20	14.7	14.41	7.60	2.07	43.9
	7	1.60	1.60	0.20	0.4	5.89	5.89	0.72	5.4	6.07	6.07	0.75	5.7	7.58	5.04	0.93	8.9	13.70	7.29	1.68	29.1
13	3	3.64	3.64	1.04	11.2	7.74	6.50	2.22	50.6	7.29	7.05	2.09	44.9	9.41	5.87	2.70	74.7	15.39	8.04	4.41	200.0
	4	3.11	3.11	0.67	4.6	7.08	6.25	1.52	23.8	6.83	6.71	1.47	22.2	8.73	5.59	1.88	36.2	14.73	7.74	3.17	103.1
	5	2.24	2.24	0.38	1.5	6.32	6.18	1.09	12.1	6.39	6.39	1.10	12.4	8.04	5.32	1.38	19.7	14.07	7.44	2.42	60.2
	6	1.49	1.49	0.21	0.5	5.75	5.75	0.82	7.0	5.95	5.95	0.85	7.5	7.26	5.04	1.04	11.1	13.35	7.24	1.91	37.6
	7	1.10	1.10	0.14	0.2	5.25	5.25	0.65	4.3	5.47	5.47	0.67	4.6	6.35	4.76	0.78	6.3	12.65	6.94	1.55	24.8

Cooling capacity modification coefficient table:

Speed	200		300		400		500		600		800		1000		1200		1400	
	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
Mid	0.87	0.84	0.86	0.82	0.86	0.83	0.85	0.81	0.83	0.79	0.84	0.8	0.86	0.82	0.85	0.81	0.85	0.81
Low	0.76	0.73	0.75	0.71	0.74	0.7	0.74	0.7	0.74	0.7	0.76	0.72	0.72	0.68	0.73	0.69	0.75	0.71

Heating Capacities (with fan at high speed and 12Pa/30Pa static pressure for relative models)

Remark:

Δ**t:**WaterTemperature Difference (℃) ; **TH:** Total Heating Capacity (kW);**WF:** Water Flow (m^3/h);**WPD:** Water Pressure Drop (kPa)

Model	Δt	Air inlet temp. (20℃ DB)																	
		Water inlet temp. (℃)																	
		30			40			50			60			70			80		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
200	10	0.50	0.04	0.1	1.76	0.15	1.0	3.08	0.26	2.9	4.37	0.38	5.9	5.63	0.48	9.8	6.86	0.59	14.5
	8	0.62	0.07	0.2	1.94	0.21	1.8	3.24	0.35	5.1	4.49	0.48	9.7	5.75	0.62	16.0	6.98	0.75	23.5
	6	0.78	0.11	0.5	2.10	0.30	3.8	3.38	0.48	9.8	4.65	0.67	18.5	5.91	0.85	30.0	7.13	1.02	43.6
300	10	0.68	0.06	0.2	2.38	0.20	2.0	4.16	0.36	6.2	5.91	0.51	12.5	7.62	0.66	20.8	9.28	0.80	30.9
	8	0.84	0.09	0.4	2.62	0.28	3.8	4.38	0.47	10.7	6.07	0.65	20.7	7.78	0.84	33.9	9.44	1.01	49.9
	6	1.06	0.15	1.1	2.84	0.41	8.0	4.57	0.66	20.8	6.29	0.90	39.3	7.99	1.15	63.6	9.64	1.38	92.6
400	10	0.85	0.07	0.3	2.96	0.25	3.2	5.17	0.44	9.6	7.35	0.63	19.5	9.47	0.81	32.3	11.53	0.99	47.9
	8	1.05	0.11	0.6	3.26	0.35	6.0	5.44	0.58	16.7	7.55	0.81	32.1	9.67	1.04	52.6	11.73	1.26	77.5
	6	1.32	0.19	1.7	3.53	0.51	12.5	5.68	0.81	32.3	7.81	1.12	61.1	9.93	1.42	98.7	11.98	1.72	143.8
500	10	1.07	0.09	0.3	3.75	0.32	4.2	6.55	0.56	12.7	9.31	0.80	25.7	12.00	1.03	42.6	14.62	1.26	63.2
	8	1.32	0.14	0.8	4.13	0.44	7.9	6.90	0.74	22.0	9.57	1.03	42.3	12.25	1.32	69.4	14.87	1.60	102.2
	6	1.67	0.24	2.3	4.47	0.64	16.4	7.20	1.03	42.6	9.90	1.42	80.6	12.59	1.80	130.2	15.19	2.18	189.7
600	10	1.29	0.11	0.2	4.51	0.39	2.8	7.87	0.68	8.6	11.19	0.96	17.4	14.42	1.24	28.8	17.56	1.51	42.7
	8	1.59	0.17	0.5	4.96	0.53	5.3	8.29	0.89	14.9	11.49	1.24	28.6	14.72	1.58	46.9	17.86	1.92	69.1
	6	2.01	0.29	1.6	5.37	0.77	11.1	8.65	1.24	28.8	11.90	1.71	54.5	15.12	2.17	88.0	18.25	2.62	128.2
800	10	1.73	0.15	0.3	6.04	0.52	3.3	10.55	0.91	10.1	14.99	1.29	20.3	19.32	1.66	33.7	23.53	2.02	50.0
	8	2.13	0.23	0.6	6.65	0.71	6.2	11.10	1.19	17.4	15.40	1.66	33.5	19.72	2.12	54.9	23.93	2.57	80.8
	6	2.69	0.39	1.8	7.20	1.03	13.0	11.59	1.66	33.7	15.94	2.28	63.7	20.26	2.90	103.0	24.45	3.51	150.0
1000	10	2.13	0.18	0.3	7.45	0.64	4.2	13.02	1.12	12.8	18.50	1.59	25.9	23.83	2.05	43.0	29.03	2.50	63.8
	8	2.63	0.28	0.8	8.20	0.88	8.0	13.70	1.47	22.2	19.00	2.04	42.7	24.33	2.62	70.0	29.53	3.17	103.1
	6	3.32	0.48	2.3	8.88	1.27	16.6	14.30	2.05	43.0	19.67	2.82	81.3	25.00	3.58	131.4	30.17	4.32	191.4
1200	10	2.59	0.22	0.5	9.05	0.78	6.5	15.82	1.36	19.9	22.48	1.93	40.2	28.97	2.49	66.8	35.28	3.03	99.1
	8	3.20	0.34	1.3	9.97	1.07	12.4	16.65	1.79	34.5	23.09	2.48	66.3	29.57	3.18	108.8	35.89	3.86	160.2
	6	4.03	0.58	3.6	10.80	1.55	25.8	17.38	2.49	66.8	23.90	3.43	126.3	30.38	4.36	204.2	36.67	5.26	297.4
1400	10	3.09	0.27	0.7	10.82	0.93	8.5	18.90	1.63	26.0	26.86	2.31	52.4	34.60	2.98	87.0	42.14	3.62	129.1
	8	3.82	0.41	1.7	11.90	1.28	16.1	19.89	2.14	44.9	27.58	2.97	86.4	35.33	3.80	141.7	42.87	4.61	208.7
	6	4.82	0.69	4.7	12.90	1.85	33.6	20.76	2.98	87.0	28.55	4.09	164.6	36.29	5.20	265.9	43.80	6.28	387.3

Heating capacity modification coefficient table**:**

Speed	**200**	**300**	**400**	**500**	**600**
	TH	TH	TH	TH	TH
High	1	1	1	1	1
Medium	0.86	0.87	0.86	0.85	0.84
Low	0.74	0.75	0.75	0.75	0.73
Speed	**800**	**1000**	**1200**	**1400**	
	TH	TH	TH	TH	
High	1	1	1	1	
Medium	0.86	0.87	0.85	0.86	
Low	0.75	0.74	0.74	0.75	

Altitude modification coefficient table:

Altitude (m)	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

Operating limits

Mode	Outdoor temp.	Room temp.	Entering water temp.
Cooling	0~43℃	17~32℃	3~20℃
Heating	-15~24℃	0~30℃	30~80℃

10.Static Pressure Graphs

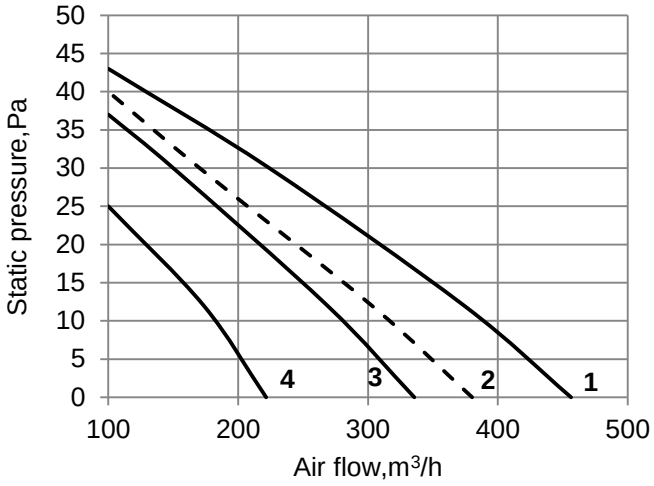
How to read the diagram:

The vertical axis is the External Static Pressure (Pa) while the horizontal axis represents the Air Flow (m^3/h).

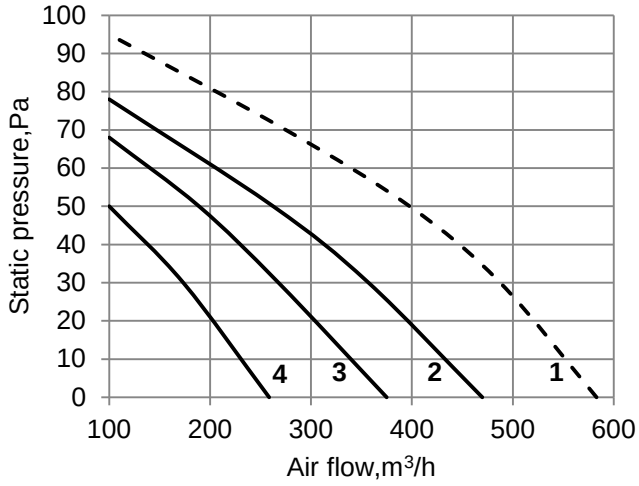
The fan performance curves are for the“1-Super High”, “2-High”, “3-Medium” and “4-Low” fan speed.

The dotted line stands for reserved fan speed.

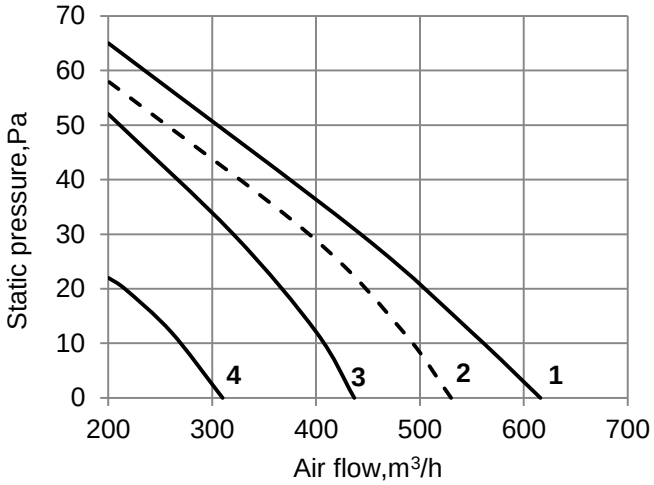
200G12



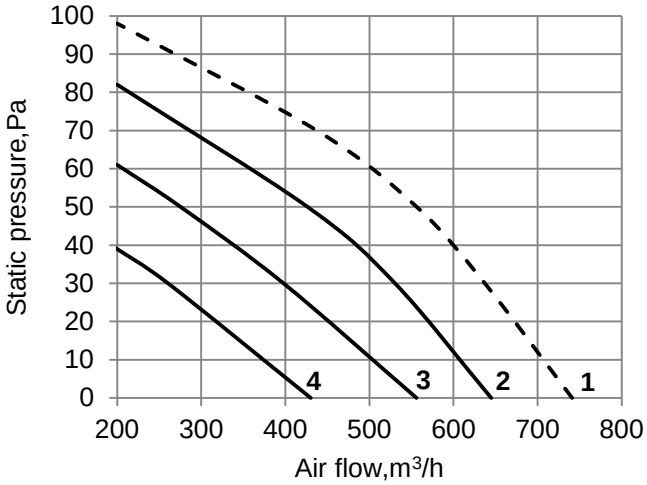
200G30



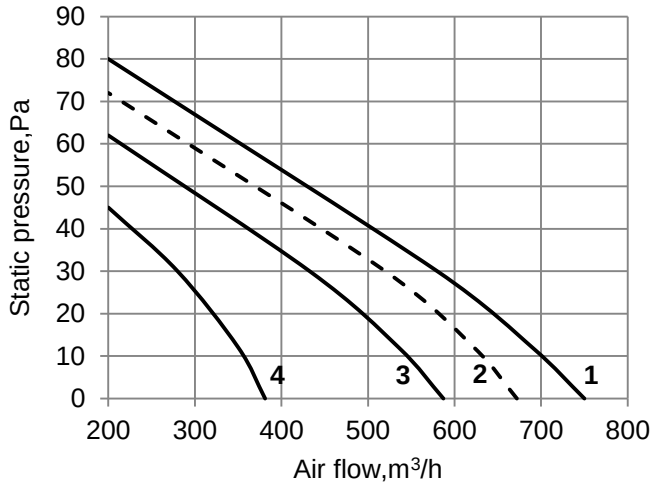
300G12



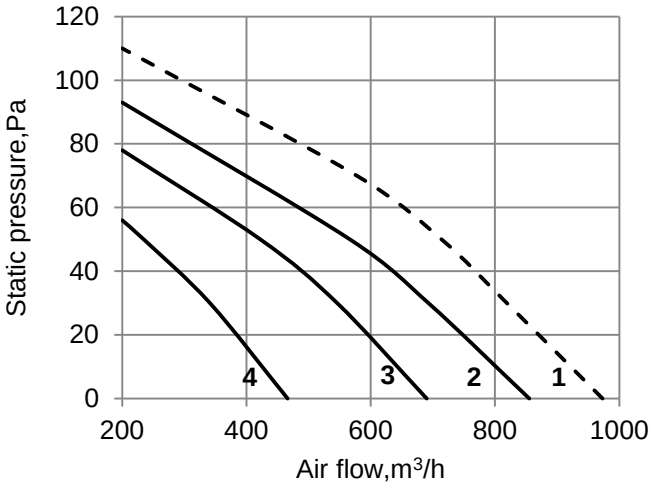
300G30



400G12

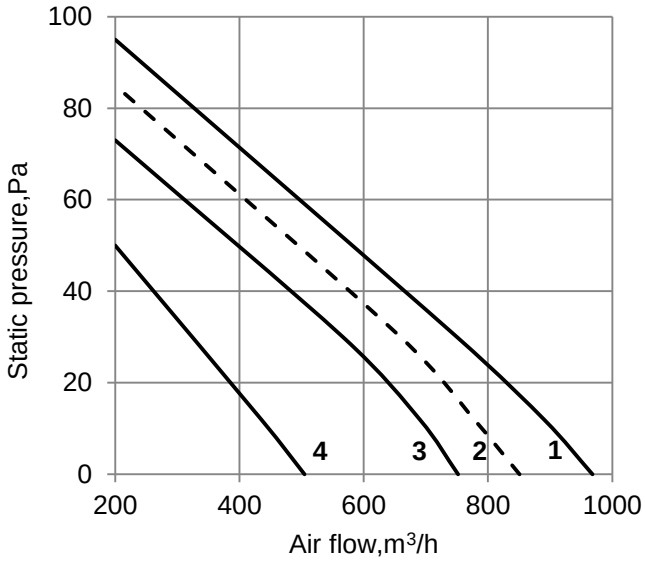


400G30

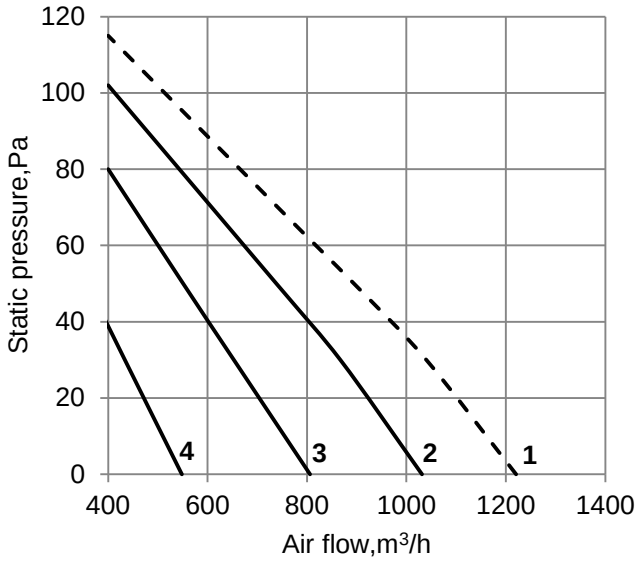


Static pressure graphs

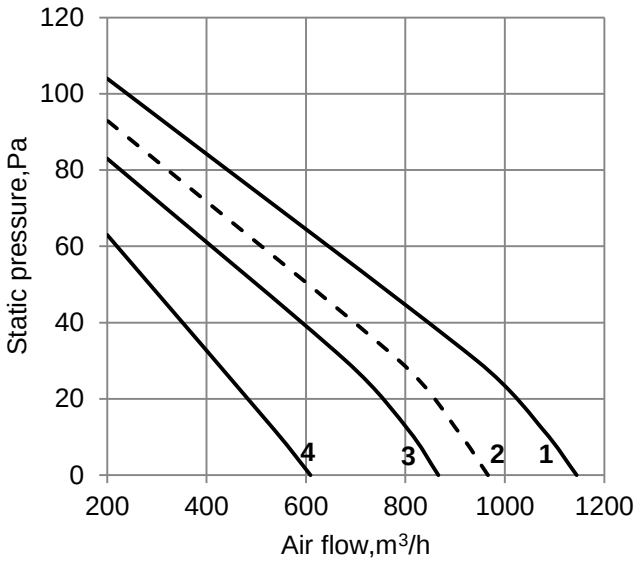
500G12



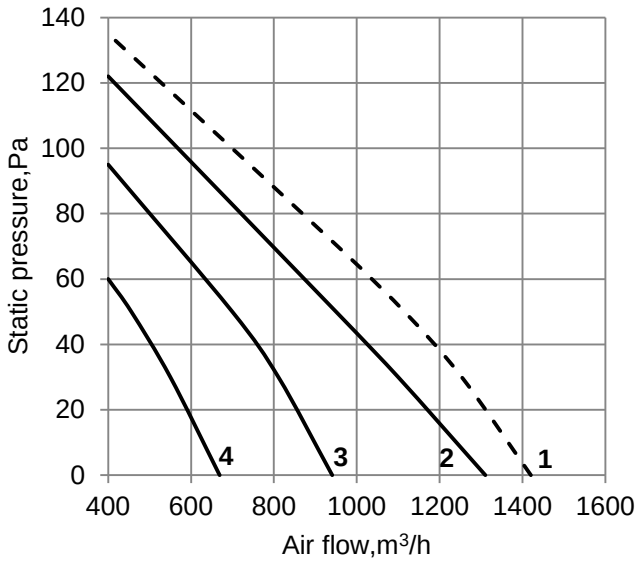
500G30



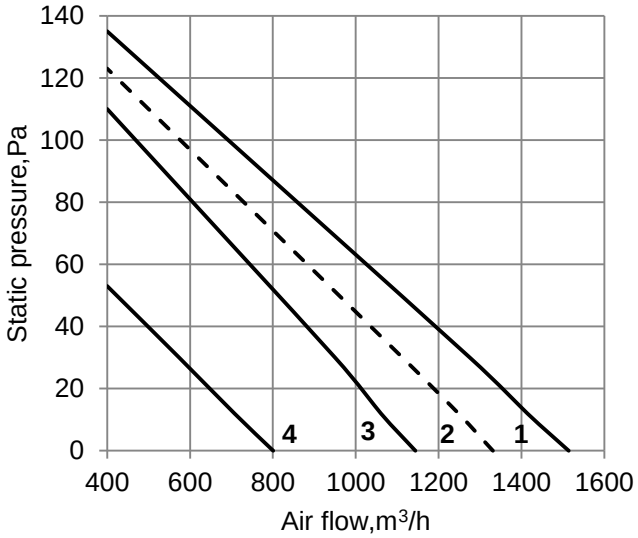
600G12



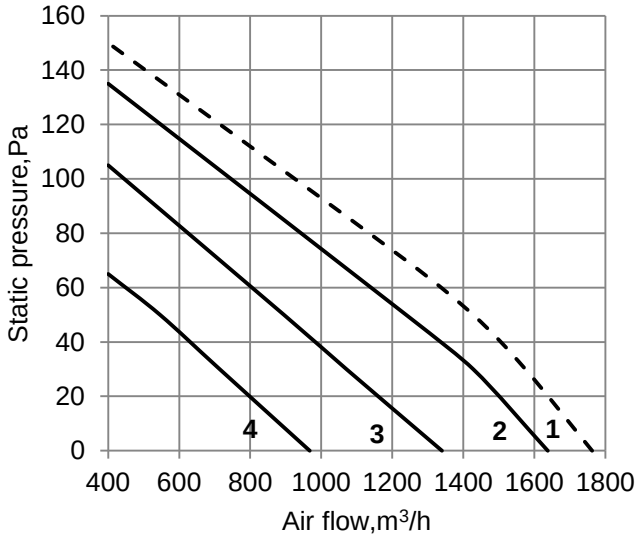
600G30



800G12

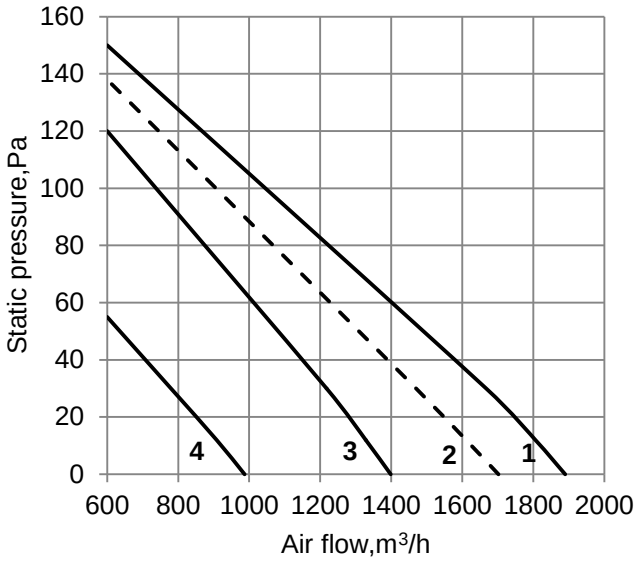


800G30

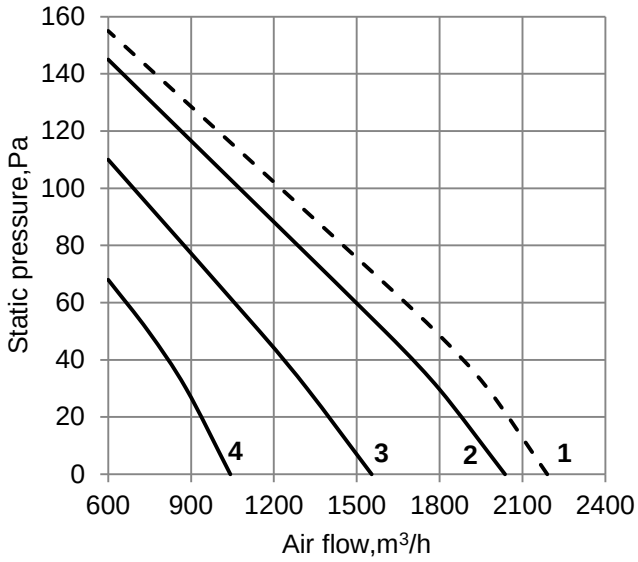


Static pressure graphs

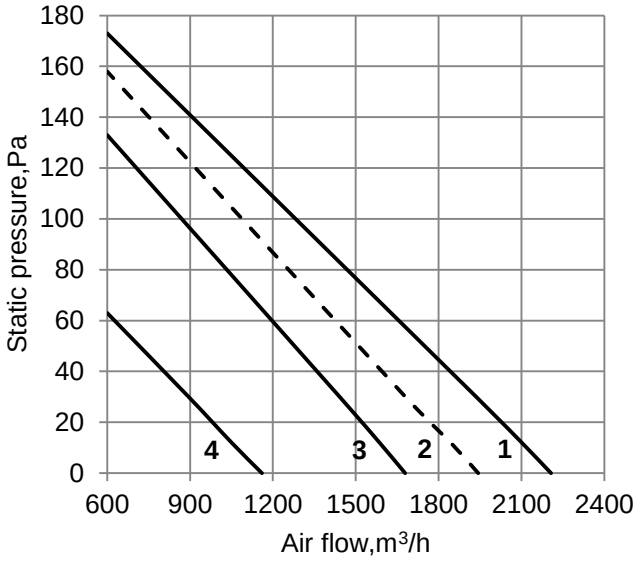
1000G12



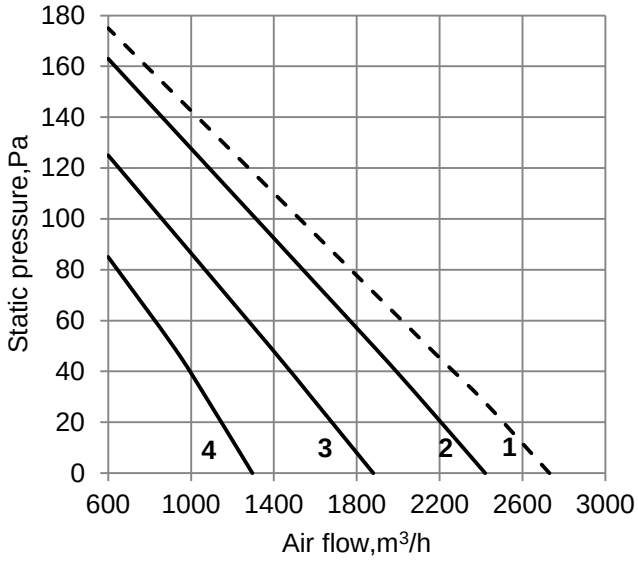
1000G30



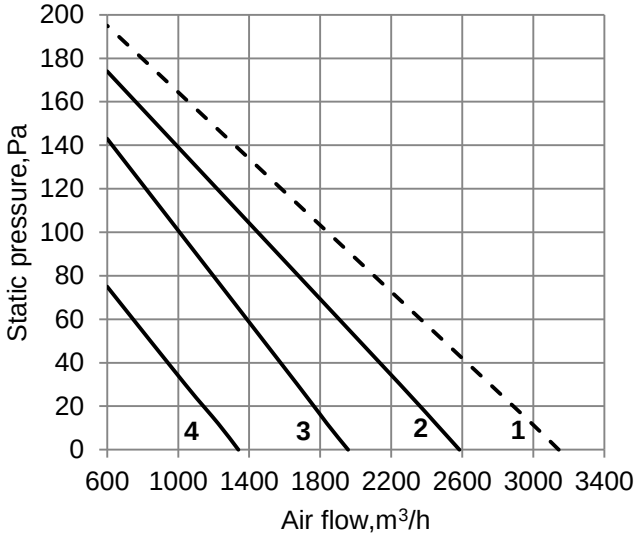
1200G12



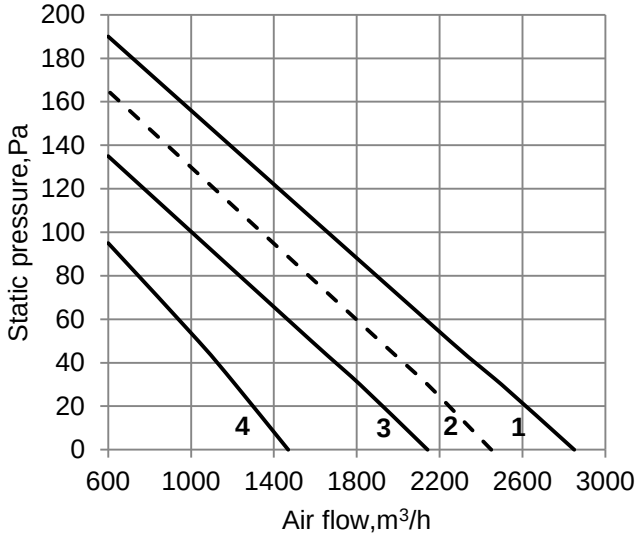
1200G30



1400G12

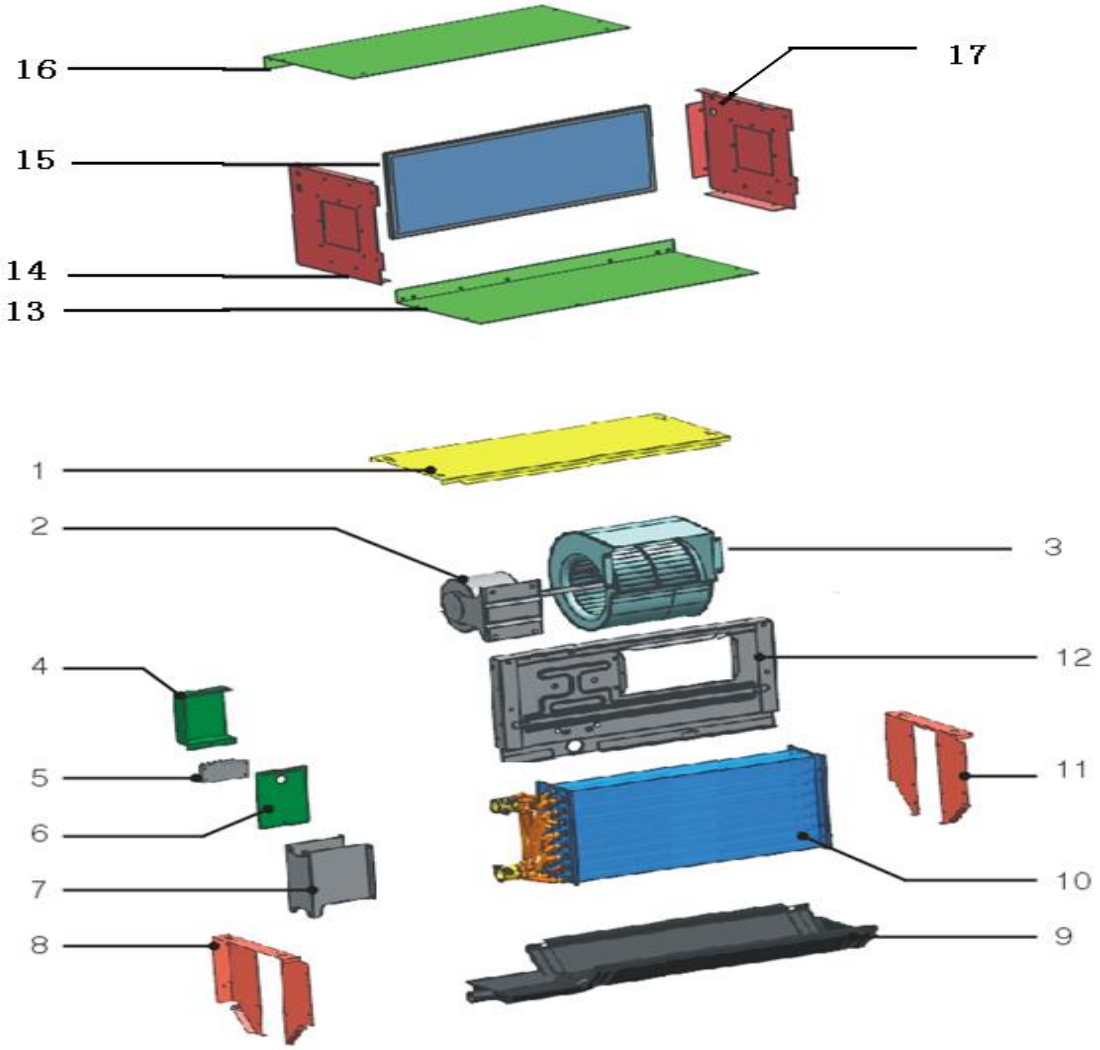


1400G30



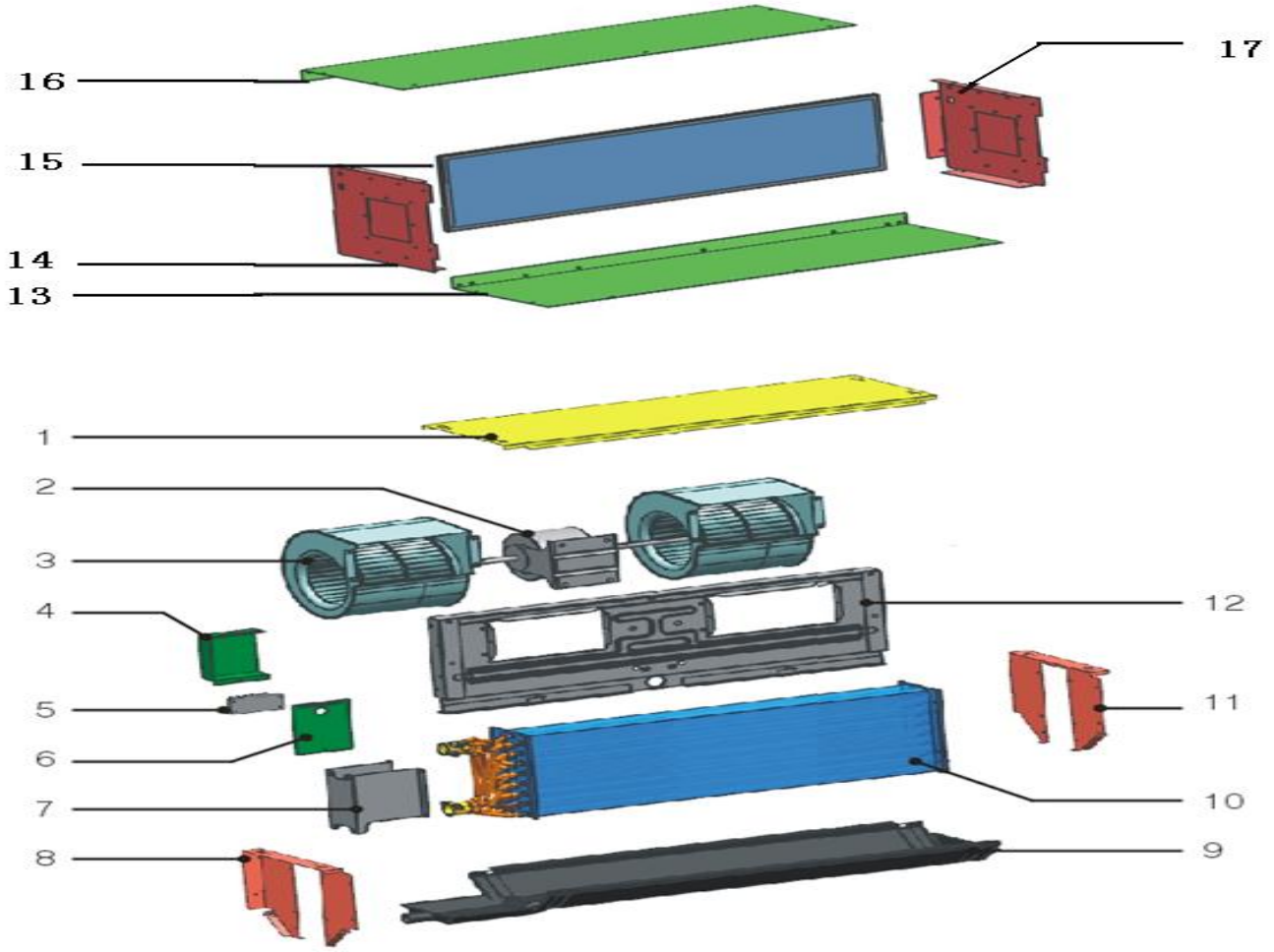
11. Exploded Views

200G12 200G30



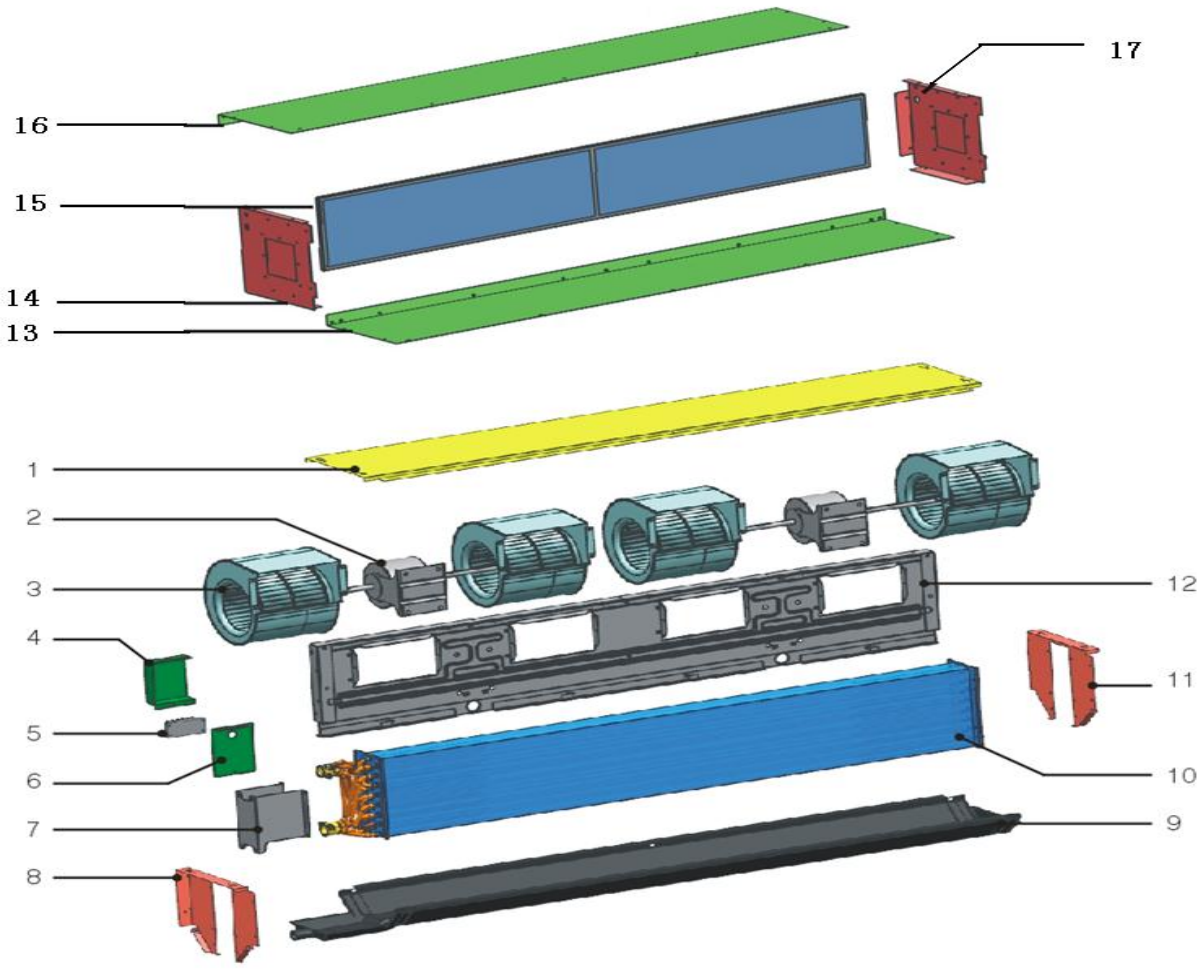
No.	Part Name	Quantity
1	Top panel assy	1
2	Motor ass'y	1
3	Fan ass'y	1
4	Motor junction box cover	1
5	Wire joint, 5p	1
6	Motor junction box	1
7	Installing board	1
8	Left panel	1
9	Drain tray assy	1
10	Evaporator ass'y	1
11	Right panel	1
12	Middle clapboard assy	1
13	Rear below cover plate ass'y	1
14	Left cover plate ass'y	1
15	Air filter	1
16	Up cover plate ass'y	1
17	Right cover plate ass'y	1

300G12 300G30 400G12 400G30 500G12 500G30
600G12 600G30



No.	Part Name	Quantity
1	Top panel assy	1
2	Motor ass'y	1
3	Fan ass'y	2
4	Motor junction box cover	1
5	Wire joint, 5p	1
6	Motor junction box	1
7	Installing board	1
8	Left panel	1
9	Drain tray assy	1
10	Evaporator ass'y	1
11	Right panel	1
12	Middle clapboard assy	1
13	Rear below cover plate ass'y	1
14	Left cover plate ass'y	1
16	Up cover plate ass'y	1
17	Right cover plate ass'y	1

800G12 800G30 1000G12 1000G30 1200G12 1200G30
1400G12 1400G30



No.	Part Name	Quantity
1	Top panel assy	1
2	Motor ass'y	2
3	Fan ass'y	4
4	Motor junction box cover	1
5	Wire joint, 5p	1
6	Motor junction box	1
7	Installing board	1
8	Left panel	1
9	Drain tray assy	1
10	Evaporator ass'y	1
11	Right panel	1
12	Middle clapboard assy	1
13	Rear below cover plate ass'y	1
14	Left cover plate ass'y	1
15	Filter	1
16	Up cover plate ass'y	1
17	Right cover plate ass'y	1

12. Installation

12.1 Installing site

- Install the unit where installation and maintenance space is enough.
- Install the unit where the ceiling is horizontal and enough to bear the weight of the indoor unit.
- Install the unit where the air inlet and outlet are not baffled and are the least affected by external air.
- Install the unit where the supply air flow can be sent to all parts in the room.
- Install the unit where it is easy to lead out the connective pipe and the drain pipe.
- Install the unit where connotative heat is emitted from a heat source directly.

Caution:

Installing the equipment in any of the following places may lead to faults of the equipment (if that is inevitable, consult the supplier):

- The site contains mineral oils such as cutting lubricant.
- Seaside where the air contains much salt.
- Hot spring area where corrosive gases exist, e.g., sulfide gas.
- Factories where the supply voltage fluctuates seriously.
- Inside a car or cabin.
- Place like kitchen where oil permeates.
- Place where strong electromagnetic waves exist.
- Place where flammable gases or materials exist.
- Place where acid or alkali gases evaporate.
- Other special environments.

Precautions before installation:

- Decide the correct way of conveying the equipment.
- Try to transport this equipment with the original package.
- If the air conditioner needs to be installed on a metal part of the building, electric insulation must be performed, and the installation must meet the relevant technical standards of electric devices.

12.2Installingbody

Confirm the dimensions of the indoor unit against the following figure.

Install Φ10 pendant bolts (4 bolts)

The intervals of the pendant bolts are shown in the following figure.

Use the Φ10 pendant bolts.

The treatment of the ceiling varies between buildings. For detailed measures, negotiate with the construction and fit-out staff.

Scope of dismantling the ceiling. Please keep the ceiling horizontal. Reinforce the beams and girders of the ceiling lest vibration of the ceiling.

Cut off the beams and girders of the ceiling.

Reinforce the cut-off part, beams and girders of the ceiling.

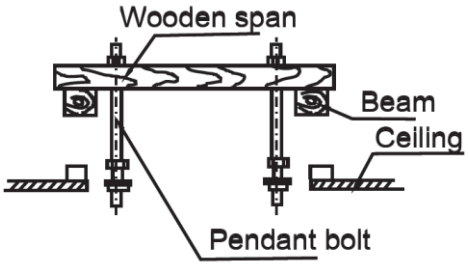
After the main body is suspended, work on the pipes and wires in the ceiling. Decide the lead-out direction of the pipes after selecting the installation site. Especially, in a circumstance where a ceiling is available, extend the refrigerant pipe, drain pipe, indoor/outdoor connection wires and wire controller lines to the connection position before suspending the unit.

12.2.1 Procedure of installing the pendant bolts.

1) Base on the unit structure, please set the screw-pitch according to the size of the following figures:

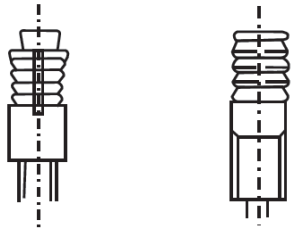
- Wooden structure:

Put rectangular sticks across the beams, and set pendant bolts.



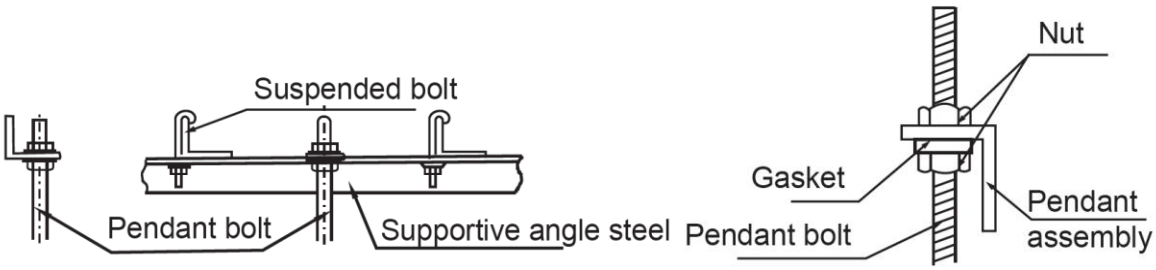
- Old concrete roughcast:

Use embedded bolts and embedded pulling plugs.



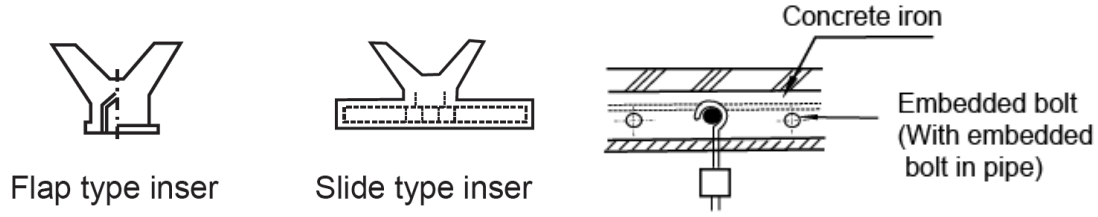
- Steel beam and girder structure:

Set and use supportive angle steel.



- New concrete roughcast:

Set it with embedded bushes or embedded bolts.



2) Suspending the indoor unit

- Use tools such as pulleys to hoist the indoor unit to the pendant bolt.
- Use tools such as gradient to settle the indoor unit horizontally. Lack of horizontality may cause water leak.

3) Connect the duct

The duct length is determined according to the external static pressure.

4) Install the wire control switch

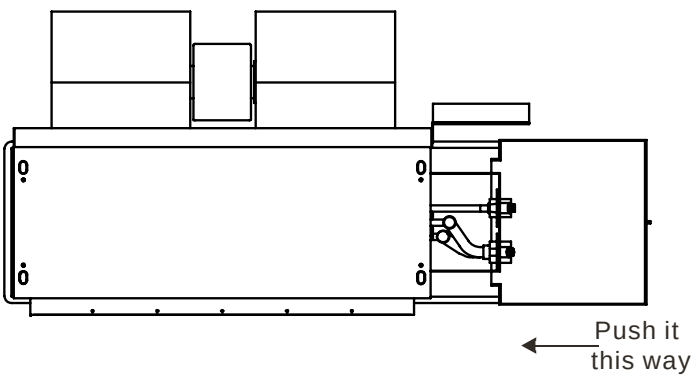
For installation of the wire control switch, see the installation manual of the wire controller.

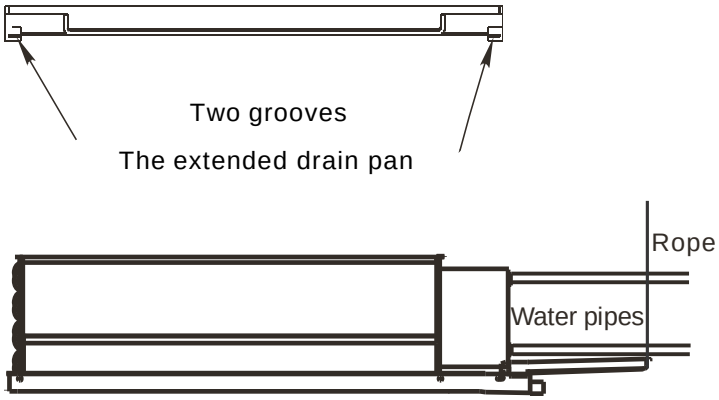
12.2.2 Body dimension

Please refer to chapter 7.

12.3 Installing extended drain pan

The grooves of the extended drain pan can be locked at the brim of the main drain pan.

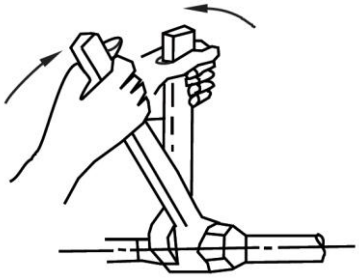




- Please hang up the extended drain pan to the pipes or ceiling by a rope.

12.4Installing water pipe

- With air release valve, the other side is water inlet pipe.
- When connect water collector, set the tightening torque to 6180~7540N.cm (630~770kgf.cm), and use a spanner to tighten it as shown in Figure.
- The diameter of connective junction in water inlet pipe and water outlet pipe is RC3/4 tapper pipe thread inside.
- The diameter of condensate pipe is ZG3/4 tapper pipe thread outside.



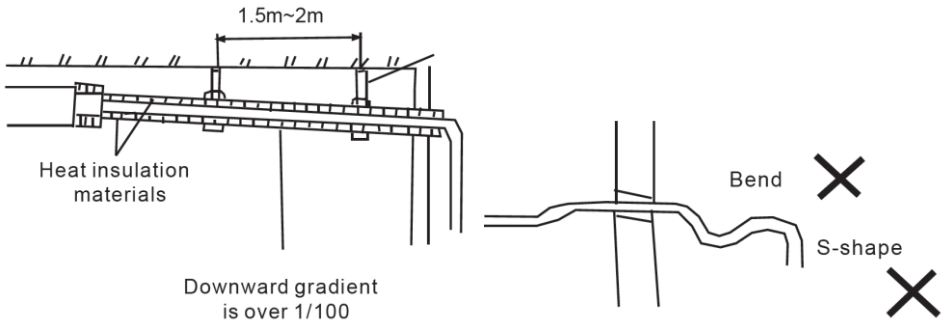
12.5Installingdrainpipe

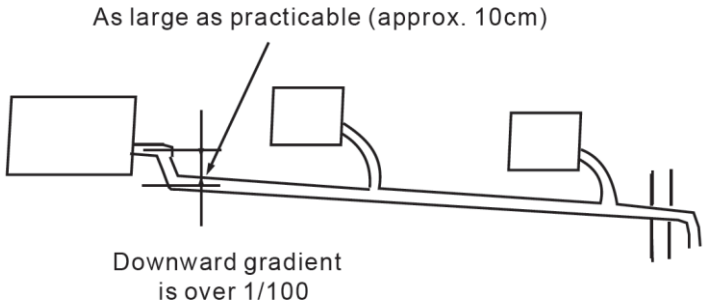
1. Install the drain pipe of the fan coil unit

Before out from factory, the scupper adopts the pipe thread.

CAUTIONS:

- Be sure to perform heat insulation for the drain pipe of the indoor unit. Otherwise, condensate will occur. The joint of the indoor unit should also undergo heat insulation treatment.
- When performing the pipes connection, use the rigid PVC binder, and make sure that no leak exists.
- Same as the joint of the indoor unit. Be careful not to apply force at the pipe side of the indoor unit.
- The downward gradient of the drain pipe should be higher than (1/100), without bend in the middle.
- The total length of the drain pipe should not exceed 20m, when the pipe is over long, a prop stand must be installed to prevent winging.
- The centralized pipes should be distributed against the figure shown on the right side.





2. Drain test

- Before the test, ensure that the drain pipes are smooth and the adapters are sealed.
- Newly built rooms should undergo the drain test before the ceiling is laid.

12.6 Wiring installation

CAUTIONS:

- The air conditioner should use separate power supply with rated voltage.
- The external power supply to the air conditioner should have ground wiring, which is linked to the ground wiring of the indoor and outdoor unit.
- The wiring work should be done by qualified persons according to circuit drawing.
- An all-pole disconnection device which has at least 3mm separation distance in all pole and a residual current device(RCD)with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.
- The appliance shall be installed in accordance with national wiring regulations.
- Be sure to locate the power wiring and the signal wrings well to avoid cross-disturbance.
- Do not turn on the power until you have checked carefully after wiring.

The wiring connection please refers to chapter 8.

13. Accessories

13.1 Standard accessories

Accessory name	Qty.	Shape	Usage
Owner's & installation manual	1	/	Installation guide
Extended drain pan	1		Connect drain water from valve kit

13.2 Optional accessories

Accessory name	Qty.	Sharp	Usage
PCB control kit CE-FCUKZ-01	1		Electric control
Remote controller R05/BGE	1		Remote control
Remote controller R51/E	1		Remote control
Wired controller KJR-18B/E	1		Wired control
Wired controller KJR-21B/D	1		Wired control
Central controller CCM03	1		Central control

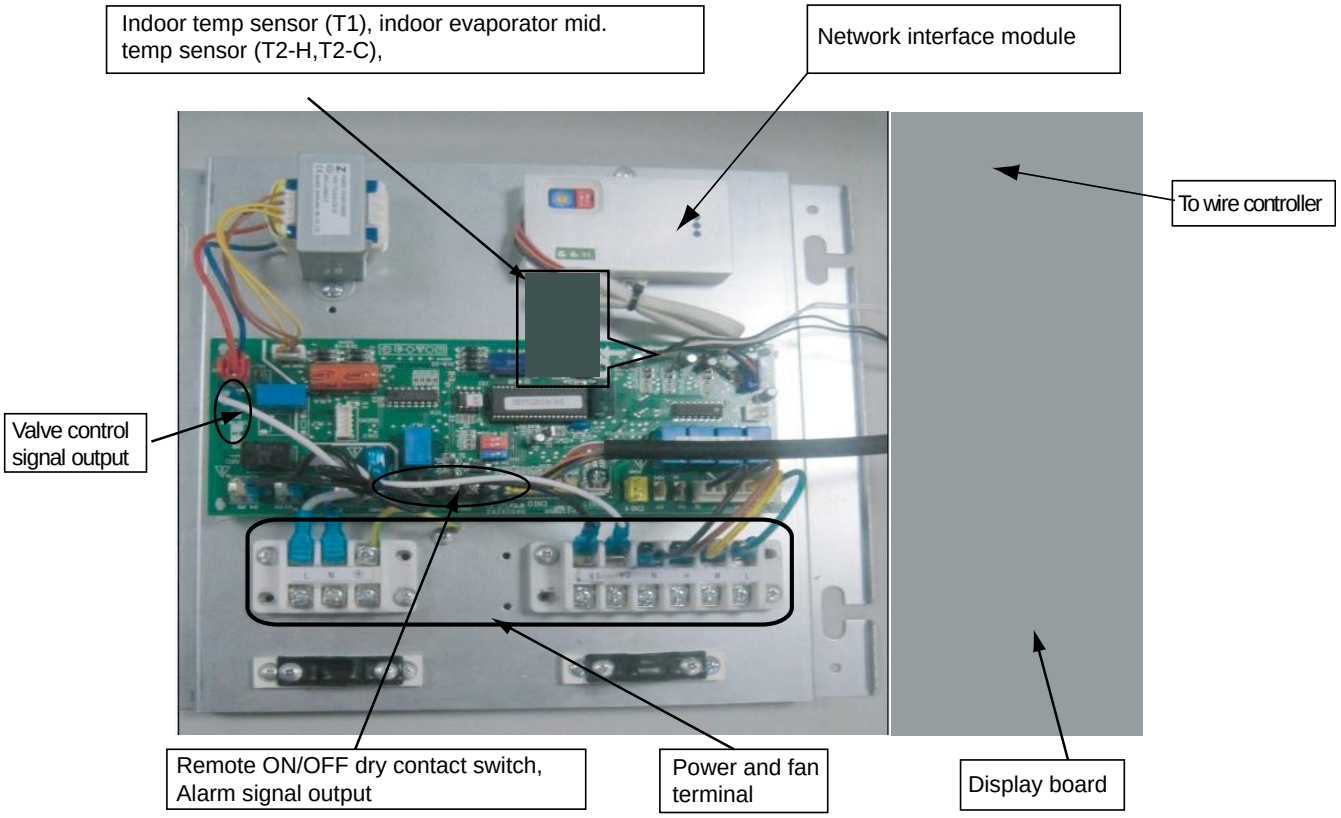
13.2.1 PCB control kit for FCU



1. Specifications

Model		CE-FCUKZ-01	CE-FCUKZ-02
Available appliance		2-pipe ducted FCU	4-pipe ducted FCU
Power supply		220-240V-1Ph-50Hz	
Operation range	Room temperature	17℃-30℃	
	Inlet water temperature	3℃-75℃	
Temperature controlling precision		±1℃	
Dimension (W×H×D)		310×76×290	
Packing Size (W×H×D)		384×174×359	

2. Internal View



Note: CE-FCUKZ-01 adopts one switch for three-way valve; CE-FCUKZ-02 adopts two switches.

When installing FCUKZ-02 should connect to the valve switch(Valve-H and Valve-C) and temp sensor (T2-H and T2-C), please refer to the wiring nameplate.

T1 is indoor temperature sensor, install to the air inlet of the indoor unit.

T2 is indoor evaporator mid temperature sensor

3. Main features

1. Suitable for 2-pipe and 4-pipe FCU.
2. Installation flexible, it can be installed attaching on the unit, mounting on the wall or hanging under the ceiling.
3. Maintenance convenient for its external installed.
4. Three fan speeds adjustment: high/medium/low.
5. Operating status can be displayed form lamp indicator.
6. Network Interface Module standard, compatible with the CCM control and PC based software control.

4. Compatible control type

Model	Applicable appliance	Remote control	Wired control	Central control	PC based network control
CE-FCUKZ-01	2-pipe ducted FCU	√	√	√	√
CE-FCUKZ-02	4-pipe ducted FCU	√	√	√	√

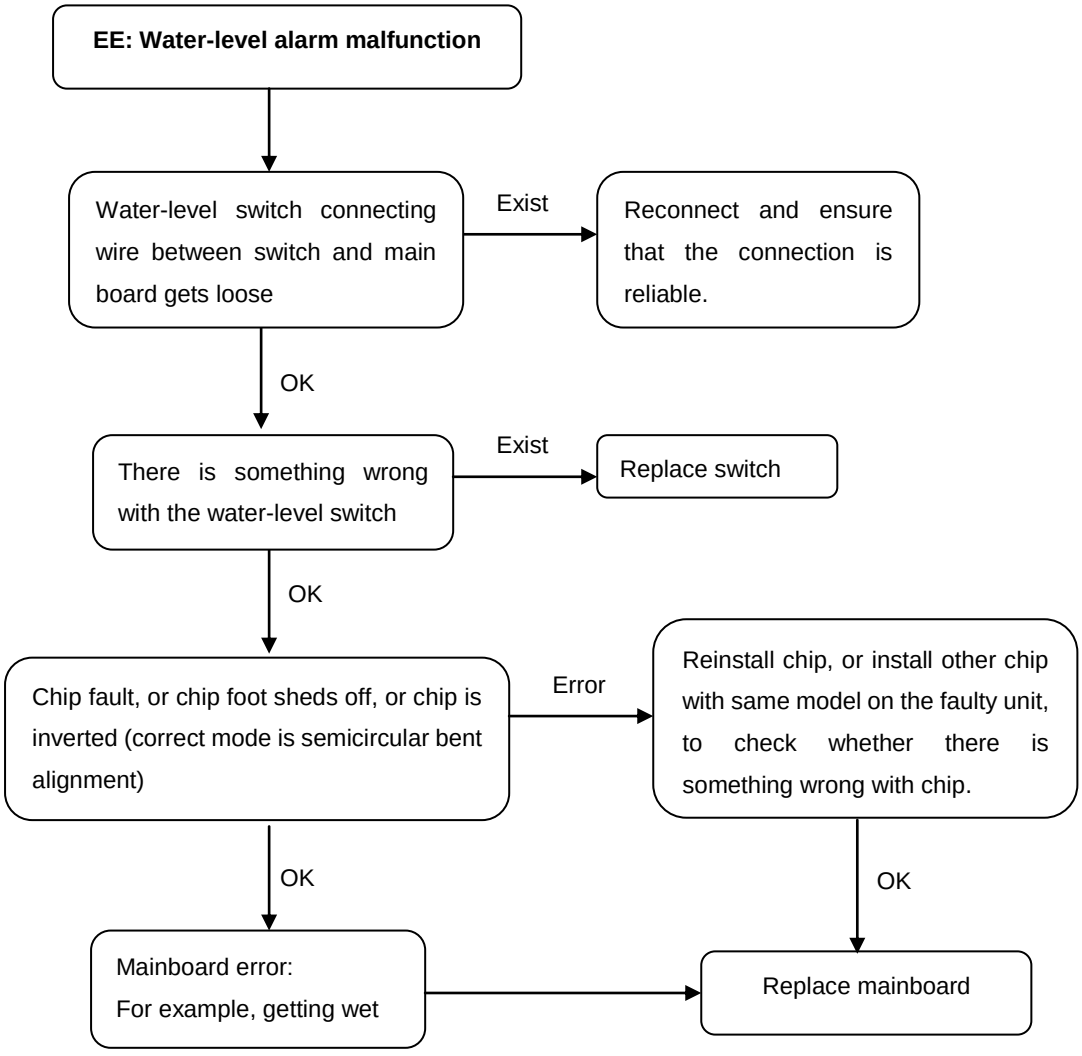
5. Address setting

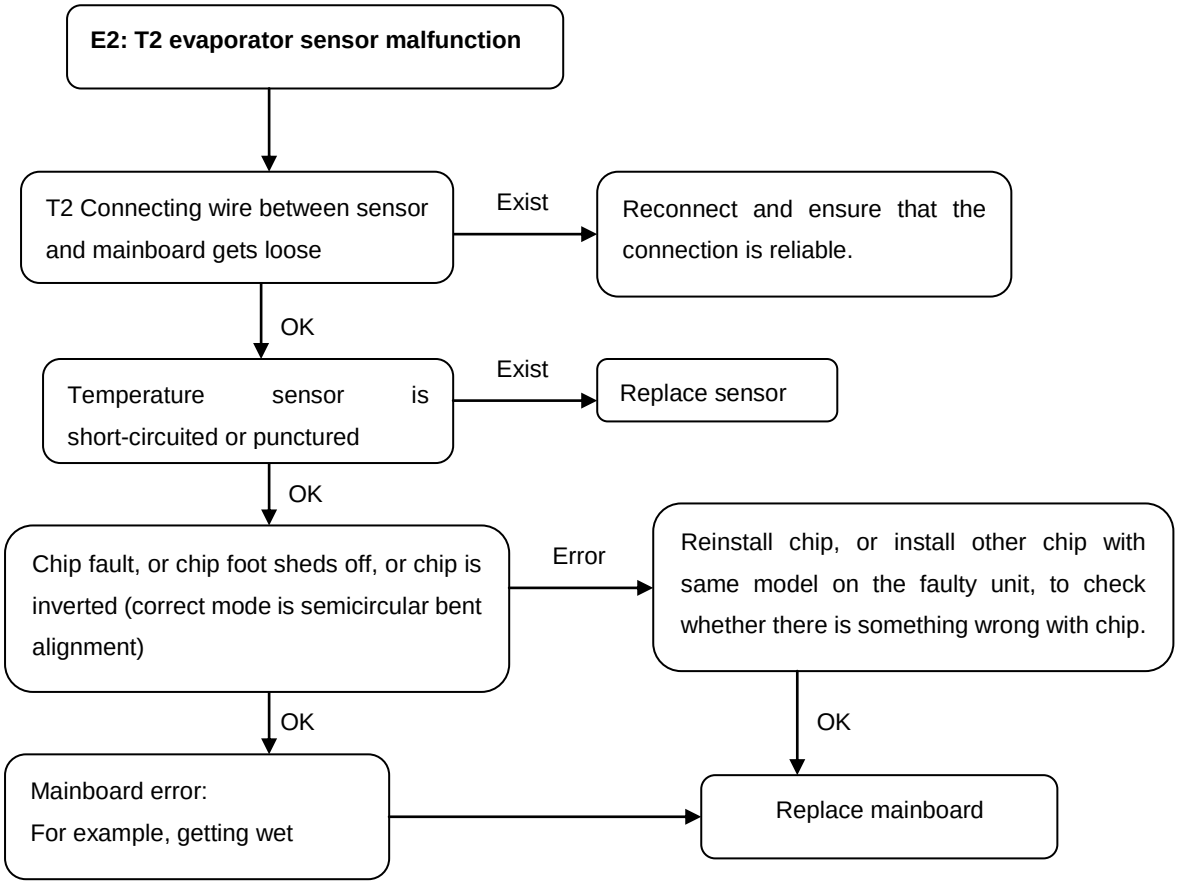
Every air-conditioner in network has only one network address to distinguish each other. Address code of air-conditioner in LAN is set by code switch on Network Interface Module (NIM), and the set range is 0-63. Functions of cold-air proof and heat-air proof can be selected.

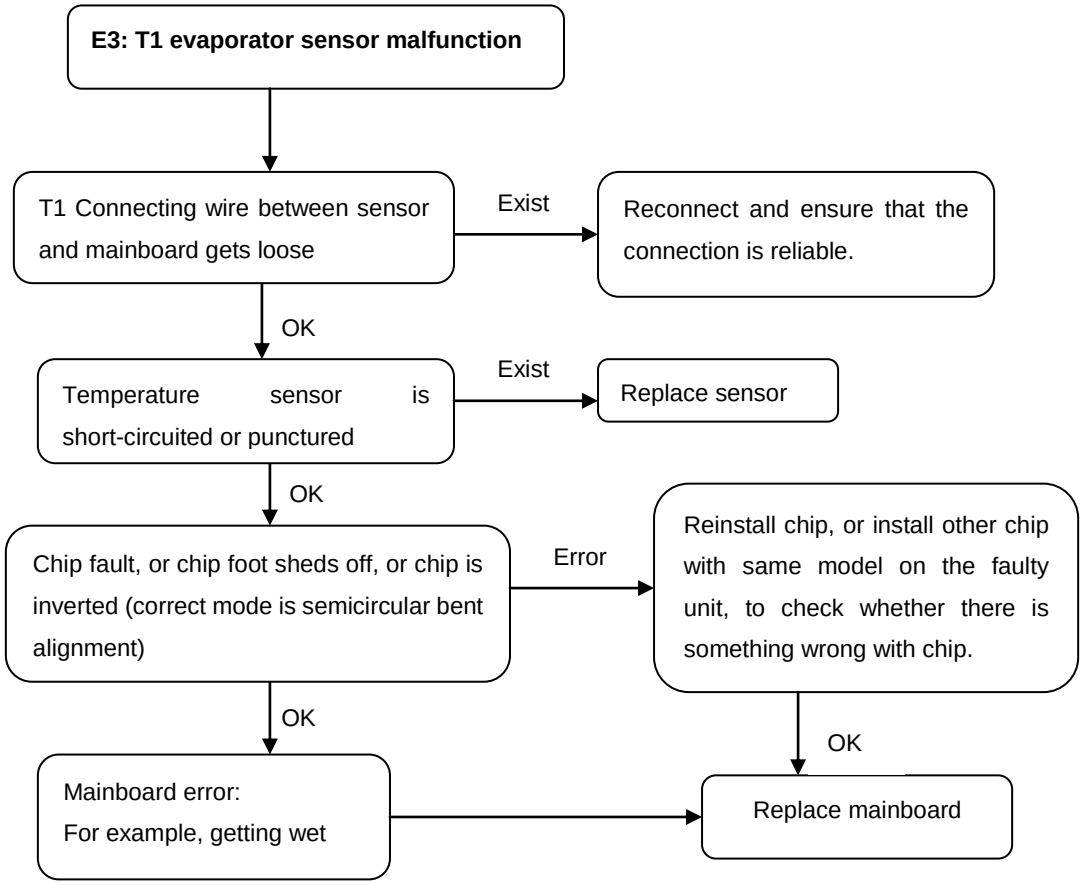
Toggle switch set		Network address code	Toggle switch set	Function selection
SW1	ENC2		SW2	
		00~15		Cold-air proof OFF, heat-air proof OFF
		16~31		Cold-air proof OFF, heat-air proof ON
		32~47		Cold-air proof ON, heat-air proof OFF
		48-63		Cold-air proof ON, heat-air proof ON

6. Trouble-shooting

Malfunction code	Malfunction
EE	Water-level alarm malfunction
E2	T2 evaporator sensor malfunction
E3	T1 evaporator sensor malfunction



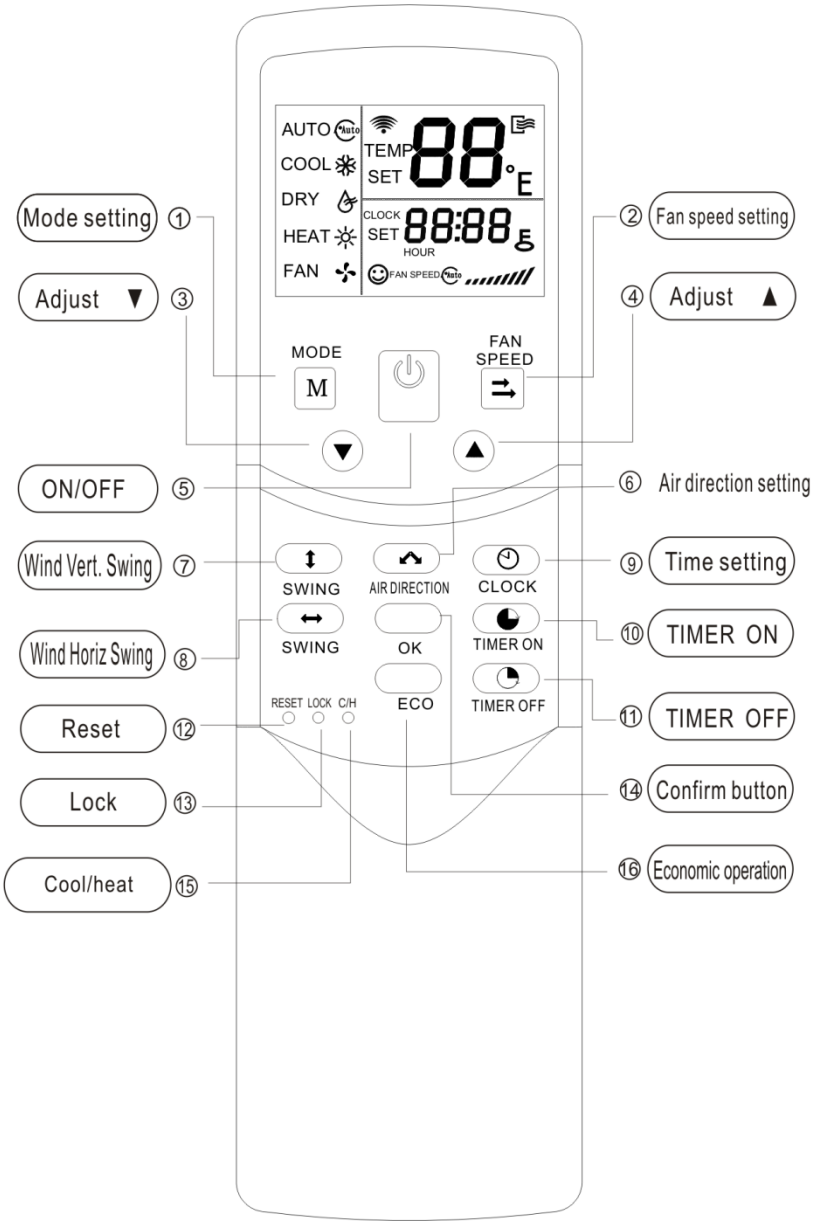

E2: T2 evaporator sensor malfunction
T2 Connecting wire between sensor and mainboard gets loose
Exist
Reconnect and ensure that the connection is reliable.
OK
Temperature sensor is short-circuited or punctured
Exist
Replace sensor
OK
Chip fault, or chip foot sheds off, or chip is inverted (correct mode is semicircular bent alignment)
Error
Reinstall chip, or install other chip with same model on the faulty unit, to check whether there is something wrong with chip.
OK
OK
Mainboard error:
For example, getting wet
Replace mainboard


E3: T1 evaporator sensor malfunction
T1 Connecting wire between sensor and mainboard gets loose
Exist
Reconnect and ensure that the connection is reliable.
OK
Temperature sensor is short-circuited or punctured
Exist
Replace sensor
OK
Chip fault, or chip foot sheds off, or chip is inverted (correct mode is semicircular bent alignment)
Error
Reinstall chip, or install other chip with same model on the faulty unit, to check whether there is something wrong with chip.
OK
OK
Mainboard error:
For example, getting wet
Replace mainboard

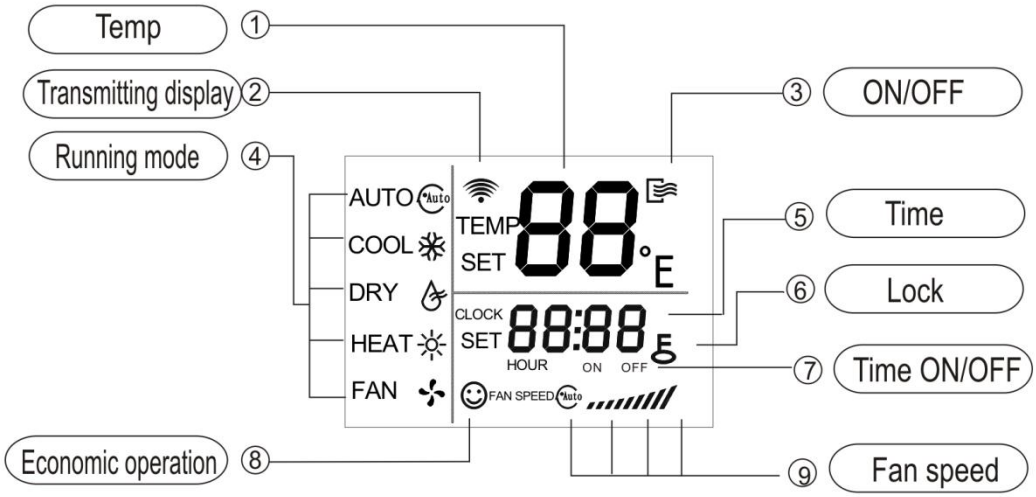
13.2.2 Optional remote controller : R05/BGE

1. Part names

Operation section



Display section



2. How to operate

1. MODE: Once pressing, running mode will be selected in the following sequence:

AUTO → COOL → DRY → HEAT → FAN

NOTE: No heating mode for cool only type unit.

2. FAN SPEED: Fan speed will be selected in following sequence once pressing this button:

AUTO →LOW →MED →HIGH

3. Adjust: Decrease the set temp. Keeping pressing will decrease the temp with 1℃ per 0.5s.

4. Adjust: Increase the set temp. Keeping pressing will increase the temp with 1℃ per 0.5s.

5. ON/OFF: For turning on or turning off the air conditioner.

6. AIR DIRECTION: Activate swing function of air deflector. Once pressing, air deflector will turn 6℃. For normal operation and better cooling and heating effect, deflector will not turn to the degree which is the state of deflector when the unit is turned off.(Only available when remote controller is used with corresponding unit.)

7. HORIZ SWING: Activate or turn off horizontal swing function. (Only available when remote controller is used with corresponding unit.)

8. VERT SWING: Activate or turn off vertical swing function. (Only available when remote controller is used with corresponding unit.)

9. CLOCK: Display the current time. (12:00 is displayed when resetting or electrifying for the first time.) Press CLOCK for 5s, icon indicating hour will flash with 0.5s. Press it again,▼and ▲are usedto adjust the figure. Setting or modification is effective onlyby pressing OK button to make confirmation.

10. TIME ON: For time ON setting. Once pressing this button, the time will increase by 0.5 hour. When the set time exceeds10 hours, pressing the button will increase the time by 1 hour. Adjusting the figure to 0.00 will cancel time ON setting.

11. TIME OFF: For time OFF setting. Once pressing this button, the time will increase by 0.5 hour. When the set time exceeds 10 hours, pressing the button will increase the time by 1 hour. Adjust the figure to 0.00 will cancel time ON setting.

12. RESET :(inner located): Press this button with a needle of 1mm to cancel the current setting and reset remote controller.

13. LOCK :(inner located): Press this button with a needle of 1mm to lock or unlock the current setting.

14. OK: Used to confirm the time setting and modification.

15. COOL/HEAT (inner located): Press this button with a needle of 1mm to shift mode between COOL only and COOL&HEAT.

During setting, back light will be lightened. Factory default mode is COOL &HEAT.

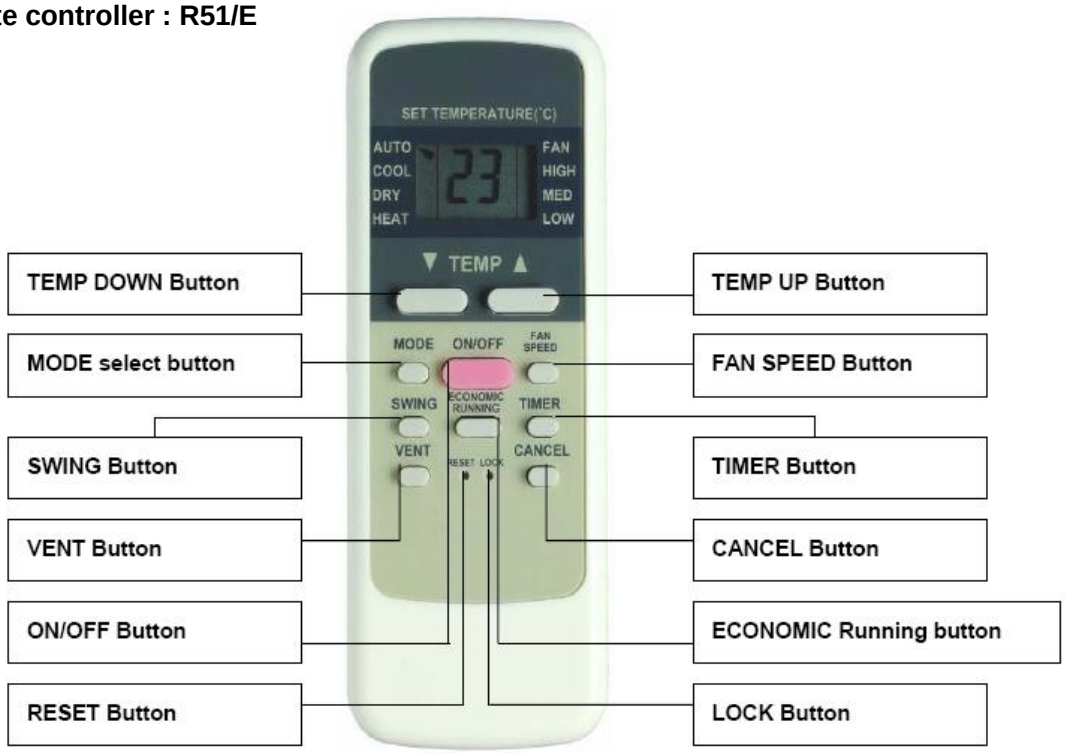
16. ECO: Activate or turn off economic operation mode. It is suggested to turn on this function when sleeping. (Only available when remote controller is used with corresponding unit.)

3. Specifications

Model	R05/BGE
Rated Voltage	3.0V
Lowest Voltage of CPU Emitting Signal	2.4V
Reaching Distance	8m (when using 3.0 voltage, it can get 11m)
Environment Temperature Range	-5℃～60℃

13.2.3 Optional remote controller : R51/E

1. Part names



2. How to operate

1. **TEMP DOWN Button:** Push the TEMP DOWN button to decrease the indoor temperature setting or to adjust the timer in a counter-clockwise direction.
2. **MODLE SELECT Button:** Each time you push the button, a mode is selected in a sequence that goes from AUTO, COOL, DRY, HEAT and FAN as the following figure indicates:

AUTO → COOL → DRY → HEAT → FAN

⚠**NOTE:** *HEAT only for Heat Pump*

3. **SWING Button:** Push this switch button to change the louver angle.
4. **RESET Button:** When the RESET button is pushed, all of the current settings are cancelled and the control will return to the initial settings.
5. **ECONOMIC RUNNING Button:** Push this button to go into the Energy-Saving operation mode.
6. **LOCK Button:** Push this button to lock in all the current settings. To release settings, push again.
7. **CANCEL Button:** Push this button to cancel the TIMER settings.
8. **TIMER Button:** This button is used to preset the time ON (start to operate) and the time OFF (turn off the operation)
9. **ON/OFF Button:** Push this button to start the unit operation. Push the button again to stop the unit operation.
10. **FAN SPEED Button:** This button is used for setting fan speed in the sequence that goes from AUTO, LOW, MED to HIGH, and then back to Auto.
11. **TEMP UP Button:** Push this button to increase the indoor temperature setting or to adjust the timer in a counter-clockwise direction.
12. **VENT Button:** Push this button to set the ventilating mode. The ventilating mode will operate in the following sequence:

Continuous → Auto → Off

Ventilation Function is available for the Fresh Star Series.

3.specifications

Model	R51/E
Rated Voltage	3.0V
Lowest Voltage of CPU Emitting Signal	2.0V
Reaching Distance	8m (when using 3.0 voltage, it can get 11m)
Environment Temperature Range	-5℃～60℃

13.2.4 Optional wired controller for ducted units without electric heater :KJR-18B/E



1. Models

KJR-18B/E is a thermostat that has developed into 4 types. Each type has its own features to suit different environment.

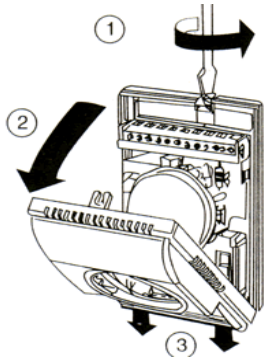
Models	Features
KJR-18B/E-A	Only control 3-speed fan, when the temperature reaches the set-point, it will close the Fan.
KJR-18B/E-B	Control motorized valve and 3-speed fan, when the temperature reaches the set-point, it will close the motorized valve and fan both
KJR-18B/E-C	Control motorized valve and 3-speed fan, when the temperature reaches the set-point, it will close the motorized valve with the fan still running
KJR-18B/E-D	Control 4 pipe fan coil units, control two motorized valves and 3-speed fan, when the temperature reaches the set-point, it will close the motorized valves with the fan still running.

2. Specifications

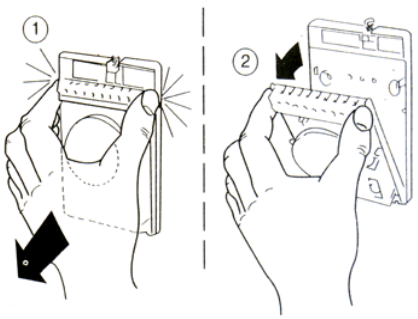
Model	KJR-18B/E
Available appliance	Ducted FCU without electrical heater
Power supply	AC220V±10%-1Ph-50/60Hz
Operating temperature	0~45℃
Operating Humidity	5~90%RH
Temperature controlling range	10~30℃
Temperature controlling precision	±1℃
Dimension (H×W×D)	130×85×43mm

3. Installation

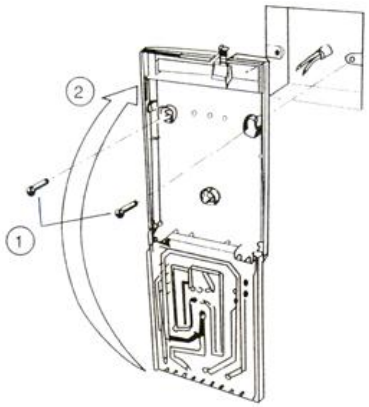
1) Dismantle the front panel



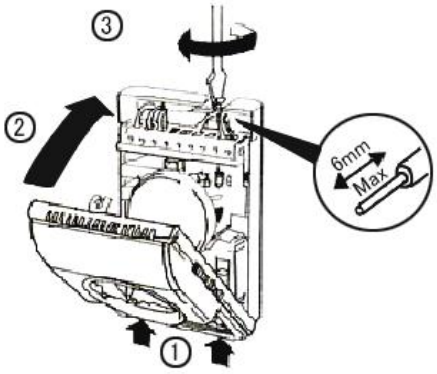
2) Dismantle te middle part



3) Install the back base

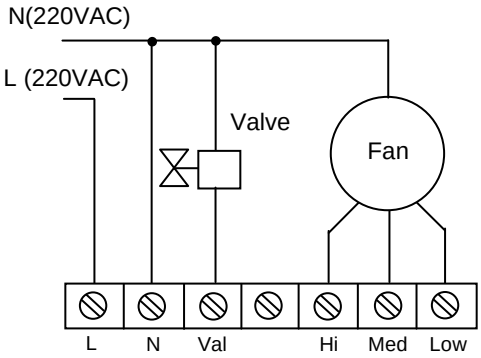


4) Wire Connection



4. Wiring diagrams :

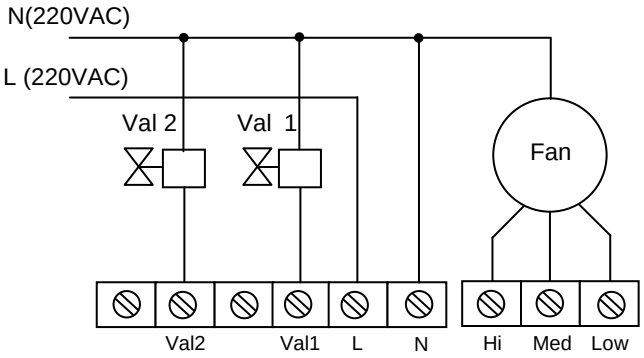
KJR-18B/E-A KJR-18B/E-B KJR-18B/E-C



2-wireNCvalve system

(KJR-18B/E-A without Motorized Valve)

KJR-18B/E-D



Val1: For heating Val2: For cooling

2-wire NC valve system

Note: Please confirm the model and use corresponding wiring diagram above when you wire.

13.2.5 Optional wired controller for ducted units with electric heater : KJR-21B/D



KJR-21B/D is available for ducted FCU with electric heater. It has large LCD display which can dispaly: working mode (cooling, heating and ventilation), fan speed, room temperature, setting temperature, etc. The buttons on the panel are : on/off (⏻) , mode exchange (M), timer (🕘), fan speed (🌀) and temperature adjustment (▲▼)



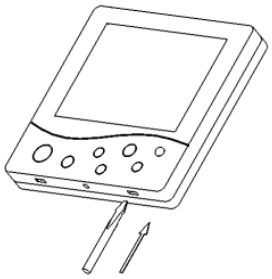
Function :

Available for ducted FCU with electric heater
Blue backlight
Clock dispasy
Temperature setting
Mode setting : cool/heat/fan/electric heating on/off
Fan speed setting: auto/high/medium/low
Motorized valve control
Electri heating control
Remote control (optional)

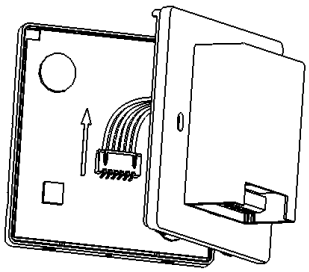
Specifications :

Power supply : AC220V ± 10%, 50/60Hz
Power consumption: < 2W
Current load: < 2A
Temperature controlling range: 5～35℃
Temperature controlling precision: ± 1℃
External dimension: 86×86×13 mm (W×H×D)
Installation hole pitch: 60mm (standard)

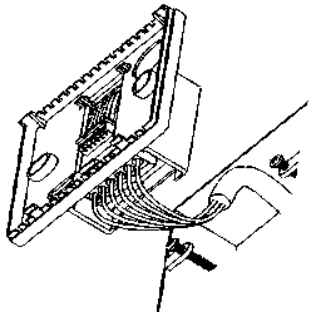
Installation



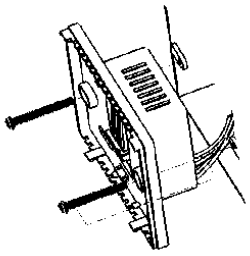
1.Open the panel by screwdriver



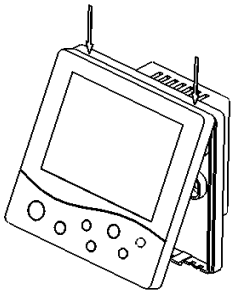
2. Disassemble the wires



3. connect the wires to terminals by screwdriver

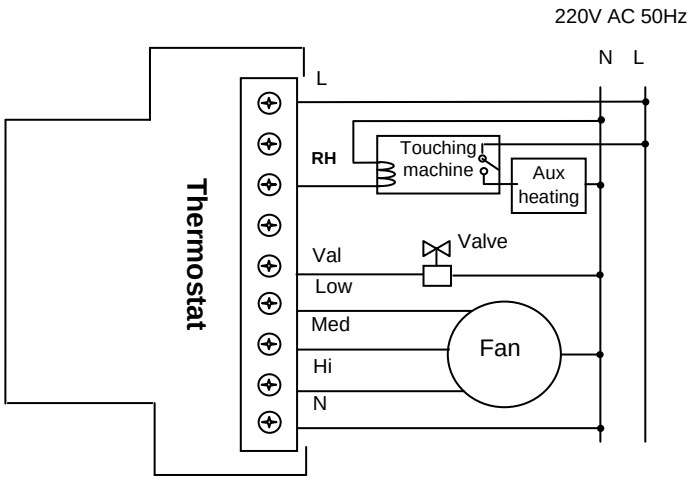


4. Put the back panel into the wall, then fix it with two screws in the packing box. Install main control panel wires.



5. Install main control panel wires. Put the cover with 30 degree angle, then fix the up two clips. Push the palces of two down clips, fix the cover, and finish the installation.

Wiring diagram :



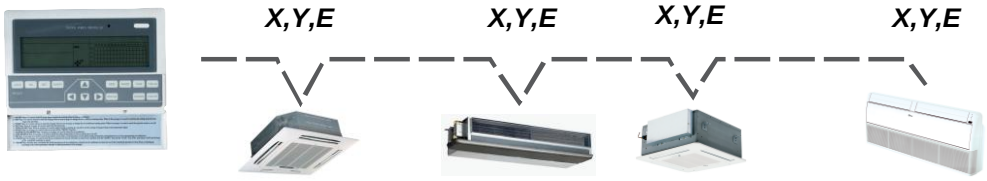
How to operate

On/off	Press"⏻"to turn on, press"⏻"again to turn off.
Temperature setting	Press"▼"to reduce temperature，press"▲" to raise temperature；each time, temperature will change 1℃.
Cooling	Press "M" until it displays "❄"and flash，it will be confirmed automatically after 5 seconds.
Heating	Press "M" until it displays "☀"and flash，it will be confirmed automatically after 5 seconds.
Ventilation	Press "M" until it displays "🌀"and flash，it will be confirmed automatically after 5 seconds.
Electric heating on/off	(Only available on heating mode) In heating mode, When the room-temperature is 2℃lower than the set-temperature, The electric heating will be on and thermostat will display " ≋ ", meanwhile valve is off automatically. When the room-temperature is1℃higher than the set-temperature, The electric heating will be off automatically and " ≋ " will not be displayed.
Valve control	In cooling mode, When the set-temperature is equal or 1℃ higher than the room-temperature, the valve will be on; When the set-temperature is equal or 1℃ lower than the room-temperature, the valve will be off.
Fan speed	Press "🌀" to select "🌀（Hi）、🌀（Med）、🌀（Low）、🌀（Auto）". In "🌀（Auto）"mode，the fan-speed changed automatically. LOW-speed When the difference between room-temperature and set-temperature exceed 1℃, MED-speed When exceed 2℃, HI-speed When exceed 3℃. When the electric heating is turned on, The LOW-speed is invalid, MED-speed when the set-temperature is lower than room-temperature，HI-speed when equal or exceed 3℃.
Timer on/off	Timer on: Press "◴" , until it displays "◴" , "TIMER ON" flashes, and "mm" of "hh:mm" flashes, press "▲" or "▼" to adjust the minutes, press "◴", "hh" of "hh:mm" flashes, press "▲" or "▼" to adjust the hours. Timer off: Press "◴" , until it displays "◴"、"TIMER OFF" flashes, and "mm" of "hh:mm" flashes, press "▲" or "▼" to adjust minutes, press"◴" , "hh" of "hh:mm" flashes, press "▲" or "▼" to adjust the hours. Notes: If your setting is accepted by thermostat, The "TIMER ON/OFF" will be displayed on LCD. **Cancel the time on/off function:** For unused periods, set the ON and OFF time to "00.00". **Temperature Calibration：** When the displayed temperature is not correct: With the thermostat in turned off, Press "M" and "◴" for 3 seconds. The display will show "XX" °C. Press "▲" or "▼" to adjust the temperature to the correct value. It will be confirmed after 5 seconds

13.2.6 Optional central controller: CCM03

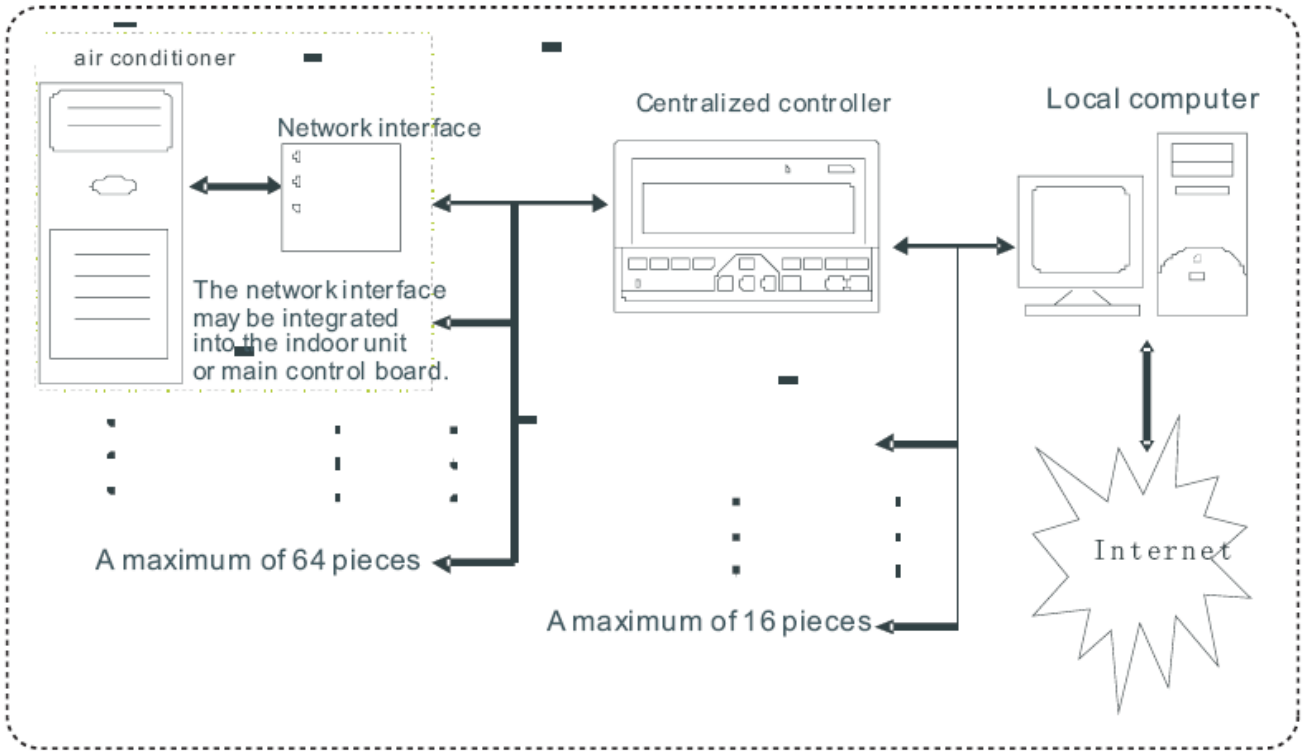


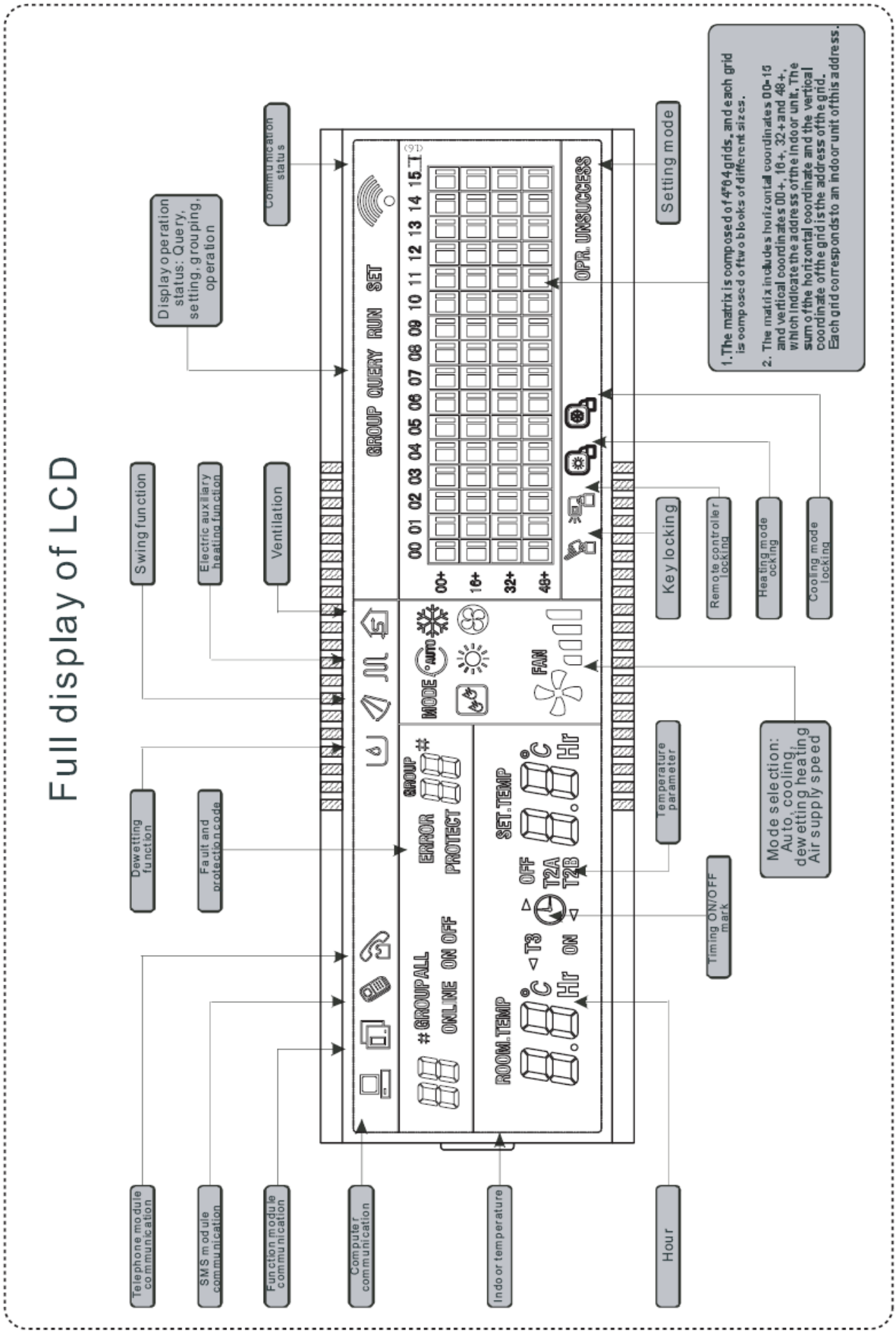
MD-CCM03 is a multifunctional device which is able to control up to 64 indoor units. And the connection length can be up to 1,200m as follow:



Access to network monitoring

MD-CCM03 is able to bridge up to 64 indoor units to the network monitoring system and the building management system as follow:



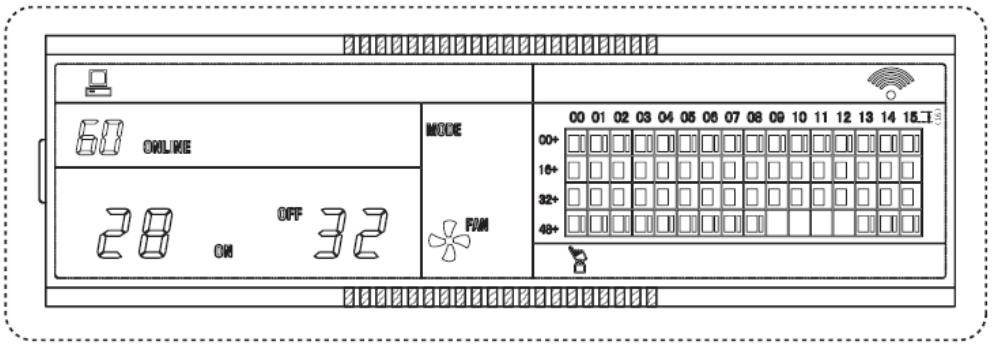

Full display of LCD
GROUP QUERY RUN SET
OPR. UNSUCCESS
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
00+
16+
32+
48+
MODE
FAN
SET.TEMP
ROOM.TEMP
GROUPALL
ONLINE ON OFF
ERROR
PROTECT
GROUP
T2A
T2B
T3
OFF
ON
Communication status
Display operation status: Query, setting, grouping, operation
Setting mode
1. The matrix is composed of 4*64 grids, and each grid is composed of two blocks of different sizes.
2. The matrix includes horizontal coordinates 00-15 and vertical coordinates 00+, 16+, 32+ and 48+, which indicate the address of the indoor unit. The sum of the horizontal coordinate and the vertical coordinate of the grid is the address of the grid. Each grid corresponds to an indoor unit of this address.
Swing function
Electric auxiliary heating function
Ventilation
Key locking
Remote controller locking
Heating mode locking
Cooling mode locking
Dewetting function
Fault and protection code
Temperature parameter
Timing ON/OFF mark
Mode selection: Auto, cooling, dewetting, heating Air supply speed
Telephone module communication
SMS module communication
Function module communication
Computer communication
Indoor temperature
Hour

Liquid crystal matrix display description:



1. The liquid crystal matrix is composed of 4*64 grids, and each grid is composed of two blocks of different sizes (as shown in the above figure).
2. The matrix includes horizontal coordinates 00-15 on the upper side and vertical coordinates 00+, 16+, 32+ and 48+ on the left Side, which indicate the address of the indoor unit. The sum of the horizontal coordinate and the vertical coordinate of the grid is the address of the grid. Each grid corresponds to an indoor unit of this address.
3. One grid is composed of two blocks of different sizes. The status indication table is as follows:

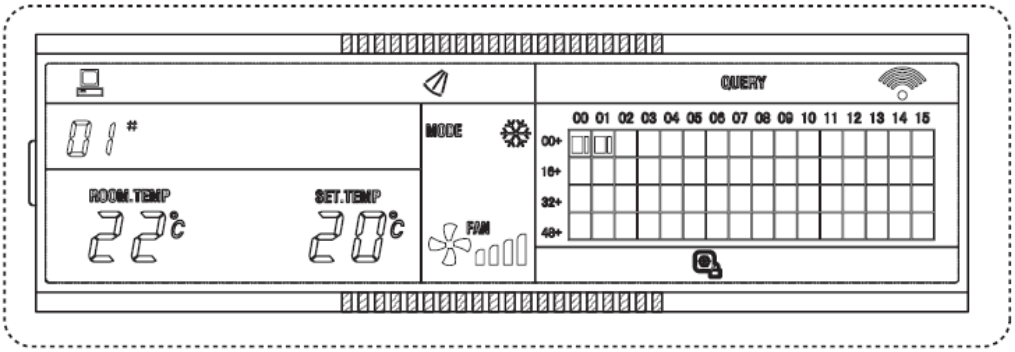
Status / Object	Constantly on	Slow blink		Fast blink
Big black block	In-service	Selected		Out of service
Small black block	Power on		Fault of indoor unit	Power off



LCD display description

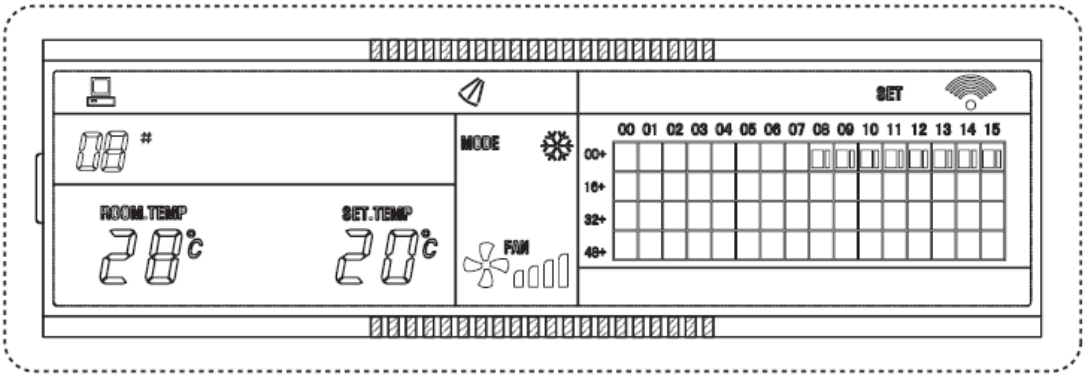
1. Description of the standby page

1) The LCD displays the standby page, 60 air conditioners are in service, of which 28 are powered on and 32 off.
2) In the matrix, the big dots of (00, 16+) and (15,32+) are luminous, and the small dots are not luminous. It indicates the 32 air conditioners with the addresses from 16 to 47 are powered off.
3) In the matrix, the big and small dots of (09, 48+) and (12, 48+) are not luminous. It indicates the four air conditioners with the addresses from 57 to 60 are outside the network.
4) All other big and small dots in the matrix are luminous. It indicates all other air conditioners are in the network and powered on.
5) The address of the air conditioner is sum of the coordinates. For example, the address of (09, 48+) is 09+48=57.
6) The centralized controller keypad is locked, and the centralized controller communicates with the computer normally.



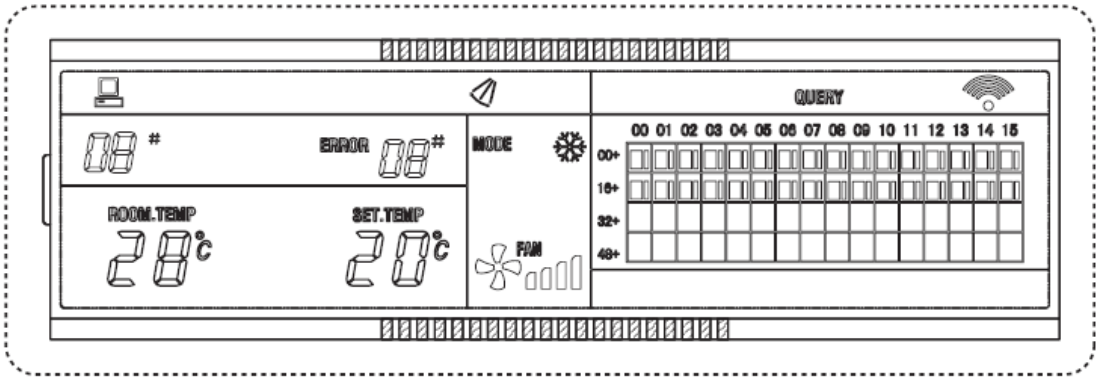
Query page description

1) The LCD displays the query page, and the air conditioner with the address of 08 is being queried. Mode of the air conditioner with the address 01 is: Cooling, strong air, swing on, indoor temperature 22°C, set temperature 20°C, cooling mode “lock”.
2) In the matrix, only the big and small black dots at (00, 00+) and (01, 00+) are luminous. It indicates the in-service and power-on status of the air conditioners with the addresses of 00 and 01.
3) The centralized controller communicates with the computer normally.



Setting page description

1) The LCD displays the setting page, and queries the air conditioner with the address of 08. The mode of the air conditioner with the address 08 is: Cooling, strong air, swing on, indoor temperature 28°C, set temperature 22°C, cooling.
2) In the matrix, only the big black dots from (08, 00+) to (16, 00+) are luminous. It indicates the air conditioners with the addresses from 08 to 16 are in service.
3) The centralized controller communicates with the computer normally.



Fault page display description

1) Query the air conditioner with the address of 08 in the query page. The air conditioner with the address of 08 is faulty, and the fault code is 08. The big black dot below (08, 0+) blinks.
2) In the matrix, only the big and small black dots from (00, 00+) to (16, 15+) illuminate. It indicates the in-service status of the air conditioners with the addresses of 00 and 01.
3) The centralized controller communicates with the computer normally.