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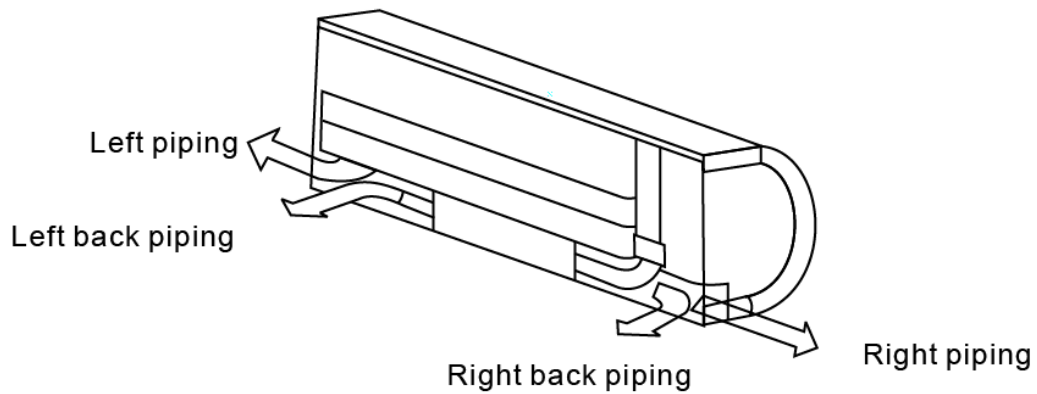
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Features

- LED display



- Big and small panels have different colors for choose: white and brown for big panel, blue and brown for small panel, and the other colors can be customized according to the customers' demands.
- Multi-connection outlet pipe method: left\right\rear, satisfy the need of different rooms.



- Cross flow fan creates quiet and comfortable environment.
- Built-in the 3-way electromagnetic valve.
- Easy maintenance has been realized as the front panel can be removed for easy access.
- Four-speed motor with one reserved for more choice.

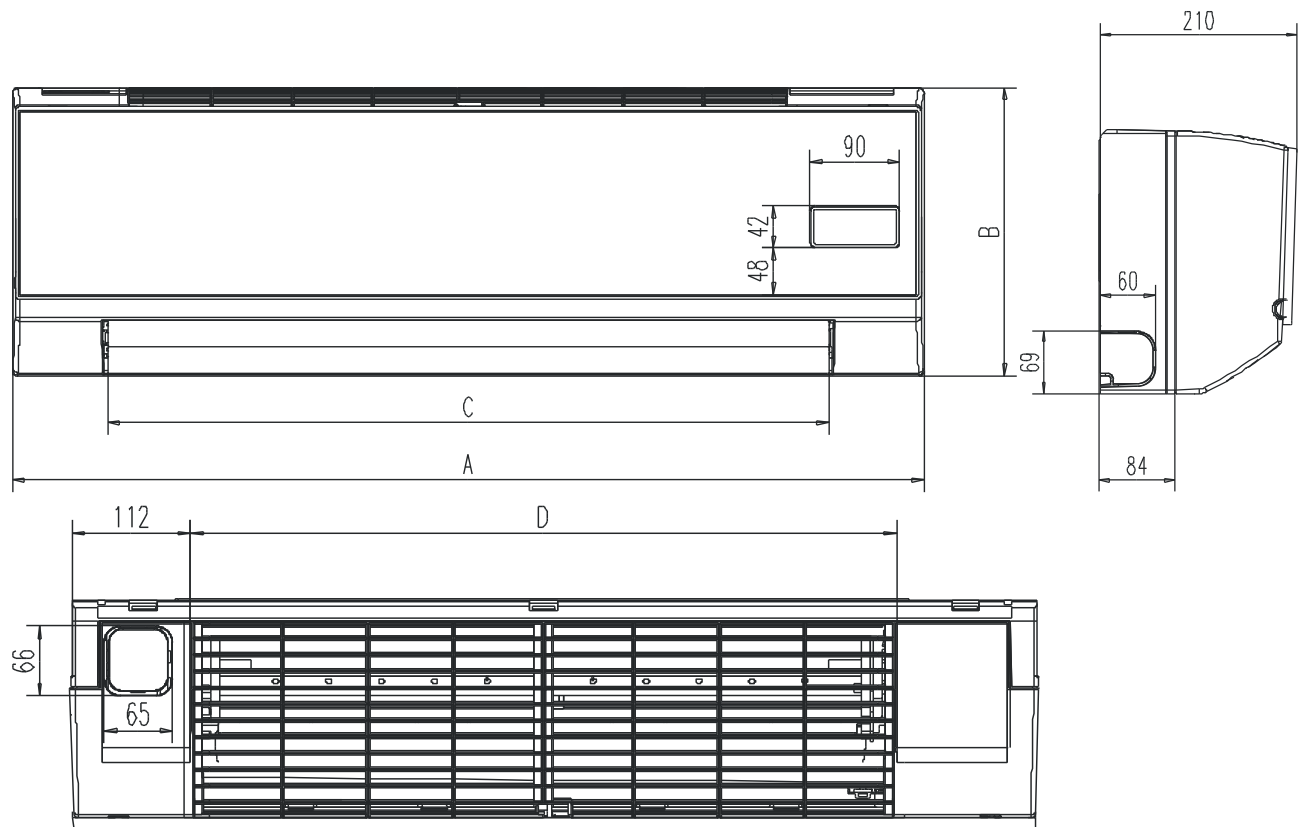
Specification

Model SFW-				250	300	400	500	600
Air flow		H/M/L	m ³ /h	425/360/320	510/430/380	680/580/510	850/720/640	1020/870/770
		H/M/L	CFM	250/210/190	300/250/220	400/340/300	500/420/380	600/510/450
Cooling	Capacity	H/M/L	kW	2.2/1.84/1.65	2.64/2.24/2.05	3.08/2.62/2.27	4.07/3.73/3.24	4.45/4.18/3.74
	Water flow rate	H	l/h	378	454	530	700	765
	Water pressure drop	H	kPa	12	18	22	26	29
Heating	Capacity	H/M/L	kW	3.02/2.6/2.23	3.69/3.25/2.77	4.34/3.86/3.25	5.69/5.12/4.32	6.3/5.67/4.73
	Water pressure drop	H	kPa	10	16.4	20.8	25.1	27.9
Power supply			V/ph/Hz	220-240/1/50				
Power input		H	W	28	40	44	50	60
Sound pressure level		H/M/L	dB(A)	30/24/20	35/29/24	37/31/26	39/33/28	40/34/29
Fan motor	Type			Low noise 4-speed fan motor				
	Quantity			1				
Fan	Type			Cross-flow fan				
	Quantity			1				
Coil	Row			2				
	Max. Working pressure		Mpa	1.6				
	Diameter		mm	Φ7				
Body	Dimensions	W×H×D	mm	915×210×290			1070×210×316	
	Net weight		kg	12			15	
	Packing	W×H×D	mm	1020×300×385			1180×300×410	
	Gross weight		kg	16			19	
Pipe connection	Water inlet/outlet pipe		Inch	G3/4"				
	Drain pipe		mm	ODΦ20				
Controller				R51/E (standard)				

Note:

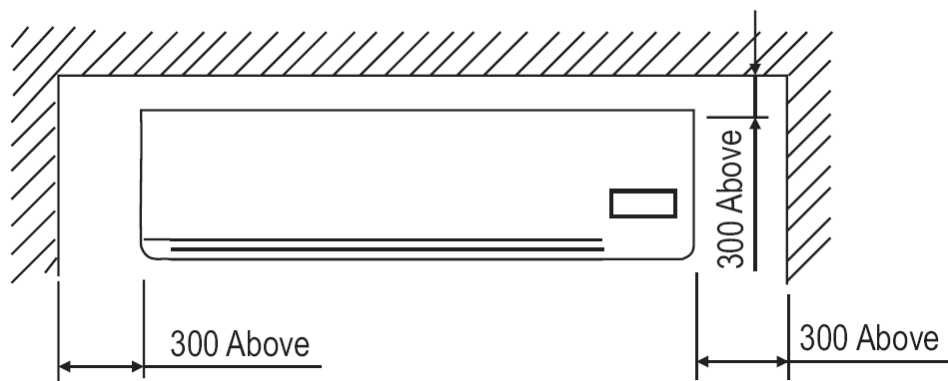
1. H: high speed; M: medium speed; L: low speed
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB,19°CWB.
Heating Conditions: Entering Water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
3. Noise is tested in semi-anechoic test room.

Dimension

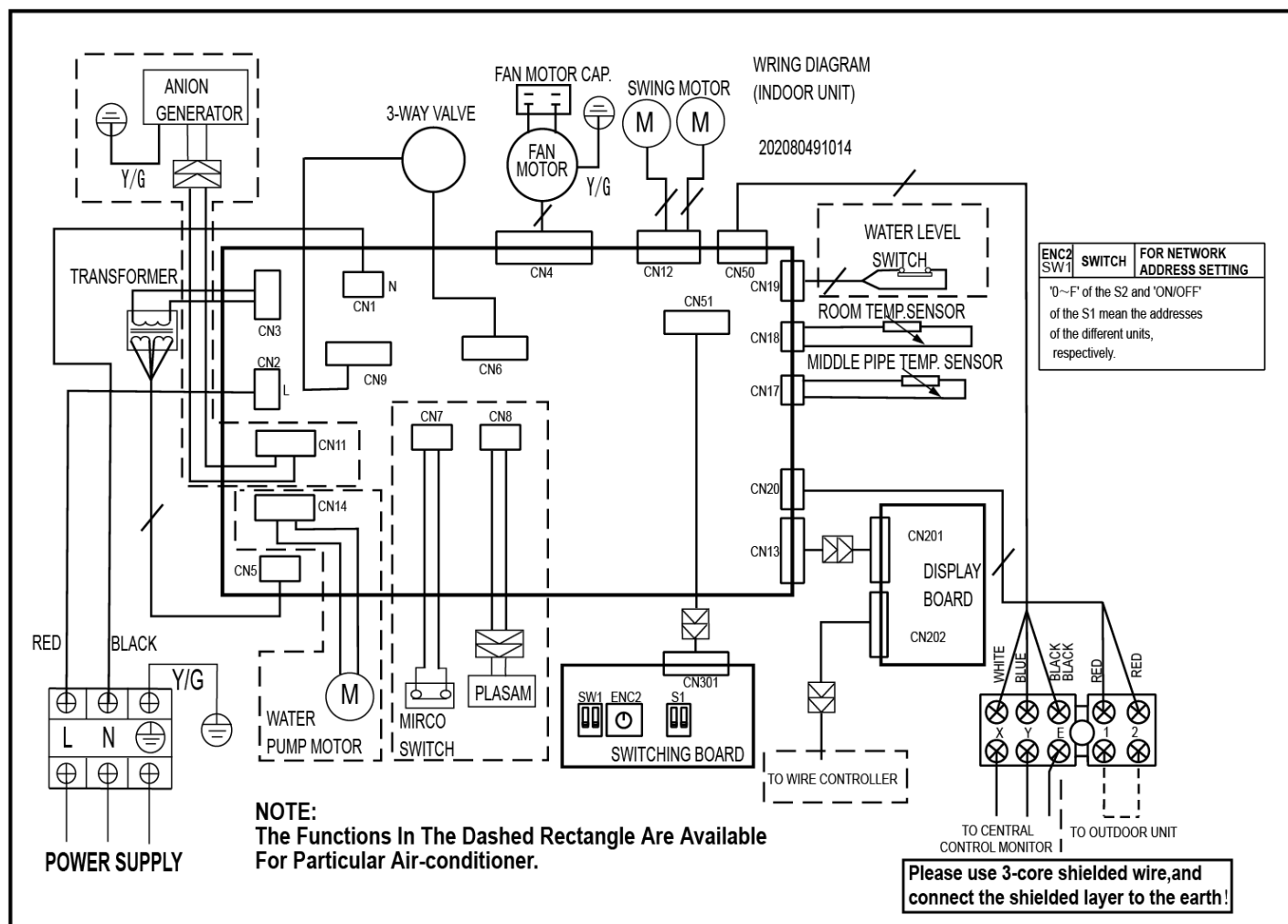


Model	250	300	400	500	600
A	915	915	915	1070	1070
B	290	290	290	315	315
C	725	725	725	885	885
D	670	670	670	815	815

Service Spaces



Wiring Diagrams



Capacity Tables

Cooling Capacity:

Remark: EWT: Enter Water Temp. (°C); Δ t: Temperature Difference (°C)
DB: Dry Bulb Temp. (°C); WB: Wet Bulb Temp. (°C);
TC: Total Cooling Capacity (kW); SC: Sensible Cooling Capacity (kW);
WF: Water Flow (m³/h); WPD: Water Pressure Drop (kPa)

250																					
EWT	Δt	Air inlet condition																			
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21			
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
5	3	2.8	1.69	0.8	54.1	2.57	1.86	0.74	45.5	2.75	1.76	0.79	51.9	2.9	1.69	0.83	58.1	3.07	1.61	0.88	64.8
	4	2.7	1.64	0.58	28.1	2.48	1.8	0.53	23.8	2.65	1.71	0.57	27.2	2.81	1.64	0.6	30.5	2.95	1.56	0.63	33.6
	5	2.58	1.58	0.44	16.5	2.36	1.76	0.41	13.8	2.53	1.66	0.43	15.8	2.7	1.58	0.46	18.0	2.83	2.45	0.49	19.9
	6	2.46	1.54	0.35	10.5	2.24	1.7	0.32	8.7	2.42	1.6	0.35	10.1	2.58	1.52	0.37	11.5	2.71	1.44	0.39	12.6
	7	2.34	1.46	0.29	6.9	2.12	1.66	0.26	5.7	2.29	1.55	0.28	6.6	2.46	1.46	0.3	7.6	2.59	1.38	0.32	8.5
6	3	2.64	1.62	0.76	48.2	2.41	1.79	0.69	40.0	2.58	1.69	0.74	46.0	2.75	1.61	0.79	52.2	2.91	1.54	0.83	58.4
	4	2.54	1.57	0.55	25.0	2.3	1.73	0.49	20.5	2.48	1.63	0.53	23.8	2.64	1.56	0.57	27.1	2.79	1.49	0.6	30.2
	5	2.42	1.51	0.42	14.5	2.2	1.68	0.38	12.0	2.37	1.59	0.41	13.9	2.52	1.5	0.43	15.8	2.68	1.43	0.46	17.8
	6	2.3	1.46	0.33	9.1	2.08	1.63	0.3	7.5	2.25	1.53	0.32	8.7	2.42	1.44	0.35	10.1	2.55	1.37	0.37	11.2
	7	2.18	1.4	0.27	6.0	1.95	1.58	0.24	4.8	2.13	1.49	0.26	5.7	2.28	1.39	0.28	6.6	2.43	1.31	0.3	7.5
7	3	2.47	1.54	0.71	42.0	2.24	1.72	0.64	34.6	2.42	1.62	0.69	40.2	2.59	1.54	0.74	46.3	2.74	1.46	0.79	51.7
	4	2.37	1.49	0.51	21.7	2.12	1.68	0.46	17.5	2.3	1.57	0.5	20.6	2.48	1.49	0.53	23.8	2.63	1.41	0.57	26.8
	5	2.25	1.43	0.39	12.5	2.02	1.63	0.35	10.1	2.2	1.51	0.38	12.0	2.36	1.42	0.41	13.8	2.5	1.36	0.43	15.6
	6	2.13	1.39	0.31	7.8	1.9	1.57	0.27	6.2	2.09	1.46	0.3	7.5	2.25	1.37	0.32	8.7	2.39	1.3	0.34	9.8
	7	2.02	1.33	0.25	5.1	1.77	1.52	0.22	4.0	1.95	1.42	0.24	4.8	2.12	1.32	0.26	5.7	2.26	1.24	0.28	6.5
8	3	2.3	1.48	0.66	36.5	2.05	1.66	0.59	29.1	2.25	1.55	0.64	34.8	2.42	1.46	0.69	40.3	2.57	1.38	0.74	45.7
	4	2.2	1.43	0.47	18.8	1.95	1.6	0.42	14.8	2.13	1.51	0.46	17.6	2.3	1.41	0.49	20.5	2.45	1.34	0.53	23.3
	5	2.09	1.37	0.36	10.8	1.83	1.56	0.32	8.3	2.03	1.45	0.35	10.2	2.2	1.36	0.38	12.0	2.35	1.29	0.4	13.7
	6	1.95	1.32	0.28	6.6	1.71	1.51	0.25	5.1	1.91	1.4	0.27	6.3	2.08	1.3	0.3	7.5	2.23	1.23	0.32	8.6
	7	1.84	1.26	0.23	4.3	1.59	1.45	0.2	3.2	1.78	1.35	0.22	4.0	1.95	1.25	0.24	4.8	2.09	1.17	0.26	5.5
9	3	2.14	1.41	0.61	31.5	1.88	1.59	0.54	24.4	2.08	1.48	0.6	29.8	2.26	1.39	0.65	35.1	2.4	1.31	0.69	39.8
	4	2.02	1.36	0.43	15.8	1.77	1.55	0.38	12.2	1.96	1.43	0.42	14.9	2.13	1.35	0.46	17.5	2.28	1.27	0.49	20.1
	5	1.91	1.3	0.33	9.1	1.64	1.51	0.28	6.7	1.85	1.39	0.32	8.5	2.02	1.29	0.35	10.1	2.17	1.21	0.37	11.7
	6	1.78	1.25	0.26	5.5	1.51	1.46	0.22	4.0	1.72	1.34	0.25	5.1	1.9	1.23	0.27	6.3	2.05	1.15	0.29	7.3
	7	1.65	1.19	0.2	3.5	1.41	/	0.17	2.5	1.59	1.28	0.2	3.2	1.77	1.19	0.22	3.9	1.91	1.1	0.23	4.6
10	3	1.96	1.34	0.56	26.5	1.69	1.53	0.48	19.6	1.88	1.43	0.54	24.4	2.07	1.33	0.59	29.6	2.23	1.24	0.64	34.4
	4	1.84	1.29	0.4	13.1	1.56	1.5	0.34	9.5	1.78	1.38	0.38	12.2	1.96	1.28	0.42	14.9	2.1	1.2	0.45	17.2
	5	1.72	1.24	0.3	7.3	1.46	/	0.25	5.3	1.65	1.33	0.28	6.7	1.83	1.23	0.32	8.4	1.99	1.14	0.34	9.9
	6	1.6	1.19	0.23	4.4	1.39	/	0.2	3.3	1.53	1.28	0.22	4.0	1.71	1.16	0.25	5.1	1.86	1.09	0.27	6.0
	7	1.46	1.14	0.18	2.7	1.3	/	0.16	2.2	1.39	1.23	0.17	2.5	1.57	1.13	0.19	3.1	1.74	1.03	0.21	3.8
11	3	1.77	1.28	0.51	21.6	1.5	/	0.43	15.5	1.71	1.36	0.49	20.1	1.89	1.27	0.54	24.5	2.05	1.18	0.59	29.1
	4	1.66	1.23	0.36	10.7	1.43	/	0.31	7.9	1.59	1.31	0.34	9.8	1.77	1.21	0.38	12.2	1.94	1.13	0.42	14.6
	5	1.53	1.18	0.26	5.8	1.36	/	0.23	4.6	1.46	1.28	0.25	5.3	1.65	1.16	0.28	6.8	1.81	1.08	0.31	8.2
	6	1.4	1.14	0.2	3.4	1.27	/	0.18	2.8	1.34	1.22	0.19	3.1	1.52	1.12	0.22	4.0	1.68	1.02	0.24	4.9
	7	1.24	1.1	0.15	2.0	1.2	/	0.15	1.8	1.2	/	0.15	1.8	1.38	1.06	0.17	2.4	1.55	0.96	0.19	3.0
12	3	1.58	1.22	0.45	17.3	1.39	/	0.4	13.3	1.51	1.31	0.43	15.7	1.71	1.2	0.49	20.1	1.87	1.11	0.54	24.0
	4	1.47	1.17	0.32	8.3	1.32	/	0.28	6.8	1.39	1.27	0.3	7.5	1.59	1.15	0.34	9.8	1.76	1.06	0.38	11.9
	5	1.34	1.13	0.23	4.5	1.27	/	0.22	4.0	1.27	1.23	0.22	4.0	1.46	1.11	0.25	5.3	1.63	1.02	0.28	6.6
	6	1.19	1.1	0.17	2.4	1.18	/	0.17	2.4	1.18	1.16	0.17	2.4	1.33	1.06	0.19	3.0	1.49	0.96	0.21	3.8
	7	1.05	/	0.13	1.4	1.1	/	0.13	1.5	1.09	/	0.13	1.5	1.16	1.01	0.14	1.7	1.36	0.9	0.17	2.3
13	3	1.38	1.16	0.4	13.2	1.28	/	0.37	11.3	1.3	1.26	0.37	11.7	1.5	1.14	0.43	15.6	1.68	1.05	0.48	19.5
	4	1.27	1.12	0.27	6.2	1.22	/	0.26	5.8	1.22	1.2	0.26	5.8	1.38	1.11	0.3	7.4	1.56	1	0.34	9.5
	5	1.13	1.1	0.19	3.2	1.14	/	0.2	3.2	1.14	/	0.2	3.2	1.26	1.06	0.22	4.0	1.44	0.95	0.25	5.1
	6	1.03	/	0.15	1.8	1.06	/	0.15	2.0	1.06	/	0.15	2.0	1.11	1.02	0.16	2.1	1.3	0.9	0.19	2.9
	7	0.94	/	0.12	1.1	0.97	/	0.12	1.2	0.98	/	0.12	1.2	0.98	0.96	0.12	1.2	1.14	0.85	0.14	1.6

Cooling capacity table

300																					
EWT	Δt	Air inlet condition																			
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21			
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
5	3	3.36	2.03	0.96	81.2	3.09	2.23	0.88	68.3	3.3	2.11	0.94	77.9	3.49	2.02	1	87.2	3.68	1.93	1.05	97.2
	4	3.23	1.97	0.7	42.2	2.97	2.16	0.64	35.6	3.18	2.05	0.68	40.8	3.37	1.97	0.72	45.8	3.54	1.87	0.76	50.4
	5	3.09	1.9	0.53	24.7	2.83	2.11	0.49	20.7	3.03	1.99	0.52	23.8	3.23	1.89	0.56	27.0	3.4	2.94	0.58	29.8
	6	2.96	1.84	0.42	15.7	2.69	2.04	0.39	13.0	2.9	1.92	0.42	15.1	3.1	1.82	0.44	17.3	3.25	1.73	0.47	18.9
	7	2.81	1.76	0.35	10.4	2.54	1.99	0.31	8.5	2.75	1.86	0.34	9.9	2.95	1.76	0.36	11.5	3.11	1.66	0.38	12.8
6	3	3.17	1.95	0.91	72.2	2.89	2.14	0.83	60.0	3.1	2.03	0.89	69.0	3.3	1.94	0.95	78.3	3.49	1.84	1	87.6
	4	3.05	1.88	0.66	37.5	2.76	2.08	0.59	30.8	2.98	1.96	0.64	35.7	3.17	1.87	0.68	40.6	3.35	1.78	0.72	45.4
	5	2.9	1.81	0.5	21.7	2.64	2.02	0.45	18.0	2.84	1.9	0.49	20.9	3.03	1.79	0.52	23.7	3.22	1.71	0.55	26.8
	6	2.76	1.76	0.4	13.7	2.5	1.95	0.36	11.2	2.7	1.83	0.39	13.1	2.9	1.73	0.42	15.1	3.06	1.64	0.44	16.8
	7	2.62	1.68	0.32	9.0	2.34	1.9	0.29	7.2	2.55	1.78	0.31	8.6	2.74	1.67	0.34	9.9	2.92	1.57	0.36	11.3
7	3	2.96	1.85	0.85	63.0	2.69	2.06	0.77	51.9	2.9	1.95	0.83	60.3	3.11	1.85	0.89	69.5	3.29	1.75	0.94	77.5
	4	2.84	1.79	0.61	32.6	2.55	2.02	0.55	26.2	2.77	1.88	0.59	30.9	2.97	1.79	0.64	35.6	3.16	1.7	0.68	40.3
	5	2.7	1.72	0.46	18.8	2.42	1.95	0.42	15.1	2.64	1.82	0.45	18.0	2.83	1.71	0.49	20.7	3.01	1.63	0.52	23.3
	6	2.56	1.67	0.37	11.7	2.28	1.89	0.33	9.3	2.51	1.75	0.36	11.3	2.7	1.64	0.39	13.1	2.87	1.55	0.41	14.8
	7	2.42	1.6	0.3	7.7	2.13	1.82	0.26	6.0	2.34	1.7	0.29	7.2	2.54	1.59	0.31	8.5	2.72	1.49	0.33	9.7
8	3	2.76	1.77	0.79	54.7	2.46	1.99	0.71	43.6	2.7	1.86	0.77	52.2	2.9	1.75	0.83	60.5	3.09	1.66	0.89	68.5
	4	2.64	1.71	0.57	28.1	2.34	1.92	0.5	22.2	2.56	1.81	0.55	26.5	2.76	1.7	0.59	30.8	2.94	1.61	0.63	34.9
	5	2.51	1.64	0.43	16.2	2.2	1.87	0.38	12.5	2.43	1.74	0.42	15.3	2.64	1.63	0.45	18.0	2.82	1.54	0.48	20.5
	6	2.34	1.59	0.34	9.8	2.06	1.82	0.29	7.6	2.3	1.68	0.33	9.5	2.5	1.56	0.36	11.2	2.67	1.47	0.38	12.8
	7	2.21	1.52	0.27	6.4	1.91	1.74	0.23	4.8	2.14	1.62	0.26	6.0	2.34	1.5	0.29	7.2	2.5	1.41	0.31	8.3
9	3	2.57	1.69	0.74	47.3	2.26	1.91	0.65	36.6	2.5	1.78	0.72	44.7	2.71	1.66	0.78	52.6	2.88	1.58	0.83	59.7
	4	2.42	1.63	0.52	23.7	2.13	1.86	0.46	18.2	2.35	1.72	0.51	22.3	2.55	1.62	0.55	26.3	2.74	1.52	0.59	30.2
	5	2.29	1.56	0.39	13.6	1.97	1.81	0.34	10.0	2.22	1.66	0.38	12.7	2.42	1.55	0.42	15.1	2.6	1.45	0.45	17.5
	6	2.14	1.5	0.31	8.2	1.82	1.76	0.26	5.9	2.06	1.61	0.3	7.7	2.29	1.48	0.33	9.4	2.46	1.38	0.35	10.9
	7	1.98	1.43	0.24	5.2	1.7	/	0.21	3.8	1.91	1.54	0.23	4.8	2.12	1.43	0.26	5.9	2.29	1.32	0.28	6.9
10	3	2.35	1.6	0.67	39.8	2.03	1.84	0.58	29.5	2.26	1.71	0.65	36.6	2.49	1.6	0.71	44.4	2.68	1.49	0.77	51.6
	4	2.21	1.54	0.48	19.7	1.87	1.8	0.4	14.2	2.13	1.65	0.46	18.4	2.35	1.54	0.51	22.3	2.53	1.44	0.54	25.7
	5	2.06	1.49	0.36	11.0	1.76	/	0.3	8.0	1.98	1.6	0.34	10.1	2.2	1.47	0.38	12.5	2.39	1.37	0.41	14.8
	6	1.92	1.43	0.28	6.6	1.66	/	0.24	5.0	1.84	1.54	0.26	6.1	2.06	1.39	0.29	7.6	2.24	1.3	0.32	9.0
	7	1.76	1.37	0.22	4.1	1.57	/	0.19	3.2	1.67	1.48	0.21	3.7	1.89	1.35	0.23	4.7	2.09	1.24	0.26	5.8
11	3	2.13	1.53	0.61	32.4	1.8	/	0.52	23.3	2.05	1.63	0.59	30.1	2.26	1.52	0.65	36.7	2.46	1.41	0.71	43.6
	4	1.99	1.48	0.43	16.0	1.71	/	0.37	11.9	1.91	1.57	0.41	14.8	2.13	1.45	0.46	18.3	2.33	1.36	0.5	21.9
	5	1.84	1.42	0.32	8.7	1.63	/	0.28	6.9	1.76	1.53	0.3	8.0	1.98	1.39	0.34	10.1	2.18	1.29	0.37	12.2
	6	1.68	1.36	0.24	5.0	1.53	/	0.22	4.2	1.61	1.46	0.23	4.7	1.83	1.34	0.26	6.0	2.02	1.23	0.29	7.3
	7	1.49	1.31	0.18	2.9	1.44	/	0.18	2.7	1.44	/	0.18	2.7	1.66	1.28	0.2	3.6	1.86	1.15	0.23	4.6
12	3	1.9	1.46	0.54	25.9	1.67	/	0.48	20.0	1.81	1.57	0.52	23.5	2.05	1.44	0.59	30.1	2.24	1.34	0.64	36.0
	4	1.76	1.41	0.38	12.5	1.59	/	0.34	10.2	1.67	1.52	0.36	11.3	1.9	1.38	0.41	14.6	2.11	1.28	0.45	17.9
	5	1.61	1.36	0.28	6.7	1.52	/	0.26	6.0	1.52	1.47	0.26	6.0	1.76	1.33	0.3	8.0	1.95	1.22	0.34	9.9
	6	1.43	1.31	0.2	3.7	1.41	/	0.2	3.6	1.41	1.39	0.2	3.6	1.59	1.28	0.23	4.6	1.79	1.15	0.26	5.8
	7	1.26	/	0.16	2.1	1.31	/	0.16	2.3	1.3	/	0.16	2.2	1.39	1.21	0.17	2.6	1.63	1.08	0.2	3.5
13	3	1.66	1.39	0.48	19.8	1.54	/	0.44	17.0	1.57	1.51	0.45	17.6	1.81	1.37	0.52	23.4	2.02	1.26	0.58	29.3
	4	1.52	1.34	0.33	9.3	1.47	/	0.32	8.7	1.47	1.44	0.32	8.7	1.66	1.33	0.36	11.1	1.87	1.2	0.4	14.2
	5	1.36	1.33	0.23	4.8	1.37	/	0.24	4.8	1.37	/	0.24	4.9	1.52	1.27	0.26	5.9	1.73	1.14	0.3	7.7
	6	1.23	/	0.18	2.7	1.28	/	0.18	2.9	1.28	/	0.18	2.9	1.34	1.22	0.19	3.2	1.56	1.08	0.22	4.4
	7	1.13	/	0.14	1.7	1.17	/	0.14	1.8	1.17	/	0.14	1.8	1.17	1.15	0.14	1.8	1.36	1.02	0.17	2.5

Cooling capacity table

400																					
EWT	Δt	Air inlet condition																			
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21			
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
5	3	3.92	2.36	1.13	99.2	3.6	2.6	1.03	83.5	3.84	2.47	1.1	95.2	4.07	2.36	1.17	106.5	4.29	2.25	1.23	118.7
	4	3.77	2.29	0.81	51.6	3.47	2.52	0.75	43.6	3.71	2.4	0.8	49.9	3.93	2.29	0.84	55.9	4.12	2.18	0.89	61.6
	5	3.61	2.21	0.62	30.2	3.3	2.46	0.57	25.3	3.54	2.32	0.61	29.0	3.77	2.21	0.65	33.0	3.96	3.43	0.68	36.5
	6	3.45	2.15	0.49	19.2	3.14	2.38	0.45	15.9	3.38	2.24	0.48	18.4	3.62	2.12	0.52	21.1	3.79	2.02	0.54	23.2
	7	3.28	2.05	0.4	12.7	2.97	2.32	0.36	10.4	3.2	2.16	0.39	12.2	3.44	2.05	0.42	14.0	3.63	1.94	0.45	15.6
6	3	3.7	2.27	1.06	88.3	3.37	2.5	0.97	73.3	3.62	2.37	1.04	84.3	3.85	2.26	1.1	95.7	4.08	2.15	1.17	107.0
	4	3.56	2.19	0.76	45.8	3.22	2.42	0.69	37.6	3.47	2.29	0.75	43.7	3.7	2.19	0.8	49.7	3.91	2.08	0.84	55.4
	5	3.38	2.11	0.58	26.5	3.08	2.36	0.53	21.9	3.32	2.22	0.57	25.5	3.53	2.09	0.61	29.0	3.76	2	0.65	32.7
	6	3.22	2.05	0.46	16.7	2.92	2.28	0.42	13.7	3.15	2.14	0.45	16.0	3.38	2.01	0.48	18.4	3.57	1.91	0.51	20.5
	7	3.05	1.96	0.38	11.0	2.73	2.22	0.34	8.8	2.98	2.08	0.37	10.5	3.19	1.95	0.39	12.1	3.41	1.83	0.42	13.8
7	3	3.46	2.16	0.99	77.0	3.14	2.4	0.9	63.4	3.38	2.27	0.97	73.7	3.63	2.16	1.04	84.9	3.84	2.04	1.1	94.8
	4	3.32	2.08	0.71	39.8	2.97	2.35	0.64	32.0	3.23	2.2	0.69	37.7	3.47	2.08	0.75	43.6	3.68	1.98	0.79	49.2
	5	3.15	2.01	0.54	23.0	2.82	2.28	0.49	18.5	3.08	2.12	0.53	22.0	3.3	1.99	0.57	25.3	3.51	1.9	0.6	28.5
	6	2.98	1.95	0.43	14.3	2.66	2.2	0.38	11.4	2.93	2.04	0.42	13.8	3.15	1.92	0.45	16.0	3.35	1.81	0.48	18.0
	7	2.82	1.86	0.35	9.4	2.48	2.12	0.3	7.3	2.73	1.98	0.34	8.8	2.96	1.85	0.36	10.4	3.17	1.74	0.39	11.9
8	3	3.22	2.07	0.92	66.9	2.88	2.32	0.82	53.3	3.15	2.16	0.9	63.8	3.39	2.04	0.97	73.9	3.6	1.93	1.03	83.7
	4	3.08	2	0.66	34.4	2.73	2.24	0.59	27.1	2.99	2.12	0.64	32.3	3.22	1.98	0.69	37.6	3.43	1.88	0.74	42.7
	5	2.92	1.91	0.5	19.8	2.56	2.18	0.44	15.3	2.84	2.03	0.49	18.7	3.08	1.91	0.53	21.9	3.28	1.8	0.56	25.0
	6	2.73	1.85	0.39	12.0	2.4	2.12	0.34	9.3	2.68	1.96	0.38	11.6	2.92	1.82	0.42	13.7	3.12	1.72	0.45	15.7
	7	2.57	1.77	0.32	7.8	2.23	2.03	0.27	5.9	2.49	1.89	0.31	7.4	2.73	1.75	0.34	8.8	2.92	1.64	0.36	10.1
9	3	3	1.97	0.86	57.8	2.64	2.23	0.76	44.8	2.91	2.07	0.83	54.6	3.16	1.94	0.91	64.3	3.36	1.84	0.96	72.9
	4	2.83	1.9	0.61	29.0	2.48	2.16	0.53	22.3	2.74	2.01	0.59	27.3	2.98	1.89	0.64	32.1	3.19	1.77	0.69	36.9
	5	2.68	1.82	0.46	16.6	2.29	2.12	0.39	12.2	2.59	1.94	0.45	15.6	2.82	1.81	0.49	18.5	3.04	1.69	0.52	21.4
	6	2.5	1.76	0.36	10.1	2.12	2.05	0.3	7.2	2.41	1.88	0.35	9.4	2.67	1.72	0.38	11.5	2.88	1.61	0.41	13.3
	7	2.31	1.67	0.28	6.3	1.98	/	0.24	4.6	2.23	1.8	0.27	5.9	2.47	1.67	0.3	7.2	2.68	1.54	0.33	8.5
10	3	2.75	1.87	0.79	48.6	2.36	2.15	0.68	36.0	2.64	2	0.76	44.8	2.9	1.86	0.83	54.3	3.13	1.74	0.9	63.1
	4	2.58	1.8	0.55	24.1	2.19	2.1	0.47	17.3	2.49	1.93	0.54	22.5	2.74	1.79	0.59	27.3	2.95	1.68	0.63	31.5
	5	2.41	1.74	0.41	13.5	2.05	/	0.35	9.7	2.31	1.87	0.4	12.3	2.57	1.72	0.44	15.3	2.79	1.6	0.48	18.1
	6	2.24	1.67	0.32	8.1	1.94	/	0.28	6.1	2.14	1.8	0.31	7.4	2.4	1.63	0.34	9.3	2.61	1.52	0.37	11.0
	7	2.05	1.6	0.25	5.0	1.83	/	0.22	4.0	1.95	1.73	0.24	4.5	2.2	1.58	0.27	5.7	2.44	1.44	0.3	7.0
11	3	2.48	1.79	0.71	39.6	2.1	/	0.6	28.5	2.39	1.9	0.69	36.8	2.64	1.78	0.76	44.9	2.88	1.65	0.82	53.3
	4	2.32	1.72	0.5	19.6	2	/	0.43	14.5	2.23	1.83	0.48	18.0	2.48	1.69	0.53	22.4	2.72	1.58	0.58	26.7
	5	2.15	1.66	0.37	10.7	1.9	/	0.33	8.4	2.05	1.79	0.35	9.7	2.31	1.62	0.4	12.4	2.54	1.51	0.44	14.9
	6	1.96	1.59	0.28	6.2	1.78	/	0.26	5.1	1.88	1.71	0.27	5.7	2.13	1.57	0.31	7.3	2.36	1.43	0.34	8.9
	7	1.74	1.53	0.21	3.6	1.68	/	0.21	3.3	1.68	/	0.21	3.3	1.93	1.49	0.24	4.4	2.17	1.35	0.27	5.6
12	3	2.22	1.7	0.64	31.7	1.95	/	0.56	24.4	2.11	1.84	0.61	28.7	2.39	1.68	0.69	36.8	2.61	1.56	0.75	44.0
	4	2.05	1.64	0.44	15.3	1.85	/	0.4	12.5	1.95	1.77	0.42	13.8	2.22	1.61	0.48	17.9	2.46	1.49	0.53	21.9
	5	1.88	1.59	0.32	8.2	1.77	/	0.31	7.3	1.78	1.72	0.31	7.3	2.05	1.56	0.35	9.7	2.28	1.42	0.39	12.1
	6	1.67	1.53	0.24	4.5	1.65	/	0.24	4.4	1.65	1.62	0.24	4.4	1.86	1.49	0.27	5.6	2.09	1.34	0.3	7.0
	7	1.48	/	0.18	2.6	1.53	/	0.19	2.8	1.52	/	0.19	2.7	1.62	1.41	0.2	3.1	1.9	1.26	0.23	4.3
13	3	1.94	1.63	0.56	24.2	1.8	/	0.51	20.8	1.83	1.76	0.52	21.5	2.11	1.6	0.6	28.6	2.36	1.47	0.68	35.7
	4	1.77	1.56	0.38	11.4	1.71	/	0.37	10.6	1.71	1.68	0.37	10.6	1.94	1.56	0.42	13.6	2.19	1.4	0.47	17.3
	5	1.58	1.55	0.27	5.8	1.6	/	0.27	5.9	1.6	/	0.28	5.9	1.77	1.48	0.3	7.3	2.01	1.33	0.35	9.4
	6	1.44	/	0.21	3.3	1.49	/	0.21	3.6	1.49	/	0.21	3.6	1.56	1.43	0.22	3.9	1.82	1.26	0.26	5.3
	7	1.32	/	0.16	2.1	1.36	/	0.17	2.2	1.37	/	0.17	2.2	1.37	1.34	0.17	2.2	1.59	1.19	0.2	3.0

Cooling capacity table

500																					
EWT	Δt	Air inlet condition																			
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21			
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
5	3	5.19	3.12	1.49	117.3	4.76	3.44	1.36	98.7	5.08	3.26	1.46	112.5	5.37	3.12	1.54	125.9	5.67	2.98	1.63	140.3
	4	4.99	3.03	1.07	61.0	4.58	3.33	0.98	51.5	4.9	3.17	1.05	59.0	5.19	3.03	1.12	66.1	5.45	2.88	1.17	72.9
	5	4.77	2.92	0.82	35.7	4.36	3.25	0.75	29.9	4.67	3.07	0.8	34.3	4.99	2.92	0.86	39.0	5.24	4.53	0.9	43.1
	6	4.56	2.84	0.65	22.6	4.15	3.14	0.6	18.8	4.47	2.96	0.64	21.8	4.78	2.81	0.69	24.9	5.01	2.67	0.72	27.4
	7	4.33	2.71	0.53	15.0	3.92	3.07	0.48	12.3	4.23	2.86	0.52	14.4	4.55	2.71	0.56	16.6	4.8	2.56	0.59	18.4
6	3	4.89	3	1.4	104.4	4.46	3.31	1.28	86.6	4.78	3.13	1.37	99.6	5.09	2.98	1.46	113.0	5.39	2.84	1.54	126.5
	4	4.7	2.9	1.01	54.1	4.26	3.2	0.92	44.5	4.59	3.02	0.99	51.6	4.89	2.89	1.05	58.7	5.17	2.75	1.11	65.5
	5	4.47	2.79	0.77	31.4	4.06	3.11	0.7	25.9	4.38	2.94	0.75	30.1	4.67	2.77	0.8	34.2	4.96	2.64	0.85	38.7
	6	4.26	2.71	0.61	19.8	3.85	3.01	0.55	16.2	4.16	2.82	0.6	18.9	4.47	2.66	0.64	21.8	4.72	2.53	0.68	24.2
	7	4.03	2.58	0.5	13.0	3.61	2.93	0.44	10.5	3.93	2.75	0.48	12.4	4.22	2.57	0.52	14.2	4.5	2.42	0.55	16.3
7	3	4.57	2.85	1.31	91.0	4.15	3.18	1.19	75.0	4.47	3	1.28	87.1	4.8	2.85	1.38	100.4	5.07	2.7	1.45	112.0
	4	4.38	2.75	0.94	47.1	3.93	3.11	0.84	37.9	4.26	2.9	0.92	44.6	4.58	2.75	0.98	51.5	4.87	2.61	1.05	58.1
	5	4.16	2.65	0.72	27.1	3.73	3.01	0.64	21.8	4.07	2.8	0.7	26.0	4.36	2.63	0.75	29.9	4.63	2.51	0.8	33.7
	6	3.94	2.58	0.56	16.9	3.51	2.91	0.5	13.4	3.87	2.7	0.55	16.3	4.16	2.53	0.6	18.9	4.42	2.4	0.63	21.3
	7	3.73	2.46	0.46	11.1	3.28	2.81	0.4	8.6	3.61	2.62	0.44	10.4	3.92	2.45	0.48	12.3	4.19	2.3	0.51	14.0
8	3	4.26	2.73	1.22	79.1	3.8	3.07	1.09	63.0	4.16	2.86	1.19	75.4	4.48	2.7	1.28	87.3	4.76	2.55	1.37	98.9
	4	4.07	2.64	0.88	40.6	3.61	2.97	0.78	32.0	3.95	2.8	0.85	38.2	4.26	2.61	0.92	44.5	4.53	2.48	0.97	50.4
	5	3.86	2.53	0.66	23.4	3.39	2.88	0.58	18.0	3.75	2.68	0.64	22.0	4.06	2.52	0.7	25.9	4.34	2.38	0.75	29.6
	6	3.61	2.45	0.52	14.2	3.17	2.8	0.45	11.0	3.54	2.58	0.51	13.7	3.85	2.41	0.55	16.2	4.12	2.27	0.59	18.5
	7	3.4	2.34	0.42	9.3	2.94	2.68	0.36	6.9	3.29	2.5	0.4	8.7	3.61	2.31	0.44	10.4	3.86	2.17	0.47	11.9
9	3	3.96	2.61	1.13	68.3	3.48	2.95	1	52.9	3.85	2.74	1.1	64.5	4.18	2.57	1.2	76.0	4.45	2.43	1.27	86.2
	4	3.74	2.51	0.8	34.2	3.28	2.86	0.7	26.3	3.62	2.65	0.78	32.2	3.93	2.5	0.85	38.0	4.22	2.34	0.91	43.6
	5	3.54	2.41	0.61	19.6	3.03	2.8	0.52	14.4	3.42	2.57	0.59	18.4	3.73	2.39	0.64	21.8	4.01	2.24	0.69	25.3
	6	3.3	2.32	0.47	11.9	2.8	2.71	0.4	8.6	3.18	2.48	0.46	11.0	3.52	2.28	0.51	13.5	3.8	2.13	0.54	15.7
	7	3.05	2.21	0.38	7.5	2.61	/	0.32	5.5	2.95	2.37	0.36	7.0	3.27	2.21	0.4	8.5	3.54	2.04	0.43	10.0
10	3	3.63	2.47	1.04	57.4	3.12	2.84	0.9	42.6	3.48	2.64	1	52.9	3.84	2.46	1.1	64.1	4.13	2.3	1.19	74.5
	4	3.41	2.38	0.73	28.5	2.89	2.78	0.62	20.5	3.29	2.55	0.71	26.5	3.62	2.37	0.78	32.2	3.89	2.21	0.84	37.2
	5	3.18	2.3	0.55	15.9	2.71	/	0.47	11.5	3.05	2.47	0.52	14.6	3.39	2.27	0.58	18.1	3.69	2.11	0.63	21.4
	6	2.97	2.2	0.43	9.6	2.57	/	0.37	7.2	2.83	2.37	0.41	8.7	3.17	2.15	0.45	11.0	3.45	2.01	0.49	13.0
	7	2.71	2.11	0.33	5.9	2.41	/	0.3	4.7	2.58	2.28	0.32	5.3	2.91	2.08	0.36	6.8	3.22	1.91	0.4	8.3
11	3	3.28	2.36	0.94	46.8	2.78	/	0.8	33.7	3.16	2.51	0.91	43.5	3.49	2.35	1	53.1	3.8	2.18	1.09	63.0
	4	3.07	2.28	0.66	23.1	2.64	/	0.57	17.1	2.95	2.42	0.63	21.3	3.28	2.24	0.71	26.4	3.59	2.09	0.77	31.6
	5	2.84	2.19	0.49	12.6	2.51	/	0.43	9.9	2.71	2.36	0.47	11.5	3.05	2.14	0.53	14.6	3.35	1.99	0.58	17.7
	6	2.58	2.1	0.37	7.3	2.36	/	0.34	6.1	2.48	2.26	0.36	6.7	2.82	2.07	0.4	8.7	3.11	1.89	0.45	10.6
	7	2.3	2.03	0.28	4.2	2.22	/	0.27	4.0	2.22	/	0.27	4.0	2.55	1.97	0.31	5.2	2.87	1.78	0.35	6.6
12	3	2.93	2.25	0.84	37.5	2.57	/	0.74	28.9	2.79	2.43	0.8	33.9	3.16	2.21	0.91	43.5	3.45	2.06	0.99	52.0
	4	2.71	2.17	0.58	18.1	2.45	/	0.53	14.7	2.58	2.34	0.55	16.3	2.94	2.13	0.63	21.2	3.25	1.97	0.7	25.9
	5	2.48	2.1	0.43	9.6	2.34	/	0.4	8.6	2.35	2.27	0.4	8.7	2.71	2.06	0.47	11.5	3.01	1.88	0.52	14.3
	6	2.2	2.03	0.32	5.3	2.18	/	0.31	5.2	2.18	2.14	0.31	5.2	2.45	1.97	0.35	6.6	2.76	1.77	0.4	8.3
	7	1.95	/	0.24	3.0	2.03	/	0.25	3.3	2.01	/	0.25	3.2	2.14	1.87	0.26	3.7	2.51	1.67	0.31	5.0
13	3	2.56	2.15	0.73	28.6	2.37	/	0.68	24.6	2.41	2.33	0.69	25.4	2.78	2.11	0.8	33.8	3.11	1.94	0.89	42.2
	4	2.34	2.07	0.5	13.5	2.26	/	0.49	12.5	2.26	2.22	0.49	12.5	2.56	2.06	0.55	16.1	2.89	1.85	0.62	20.5
	5	2.09	2.04	0.36	6.9	2.11	/	0.36	7.0	2.11	/	0.36	7.0	2.34	1.96	0.4	8.6	2.66	1.76	0.46	11.1
	6	1.9	/	0.27	4.0	1.97	/	0.28	4.2	1.97	/	0.28	4.2	2.06	1.89	0.3	4.6	2.4	1.67	0.34	6.3
	7	1.74	/	0.21	2.4	1.8	/	0.22	2.6	1.81	/	0.22	2.6	1.81	1.77	0.22	2.6	2.1	1.57	0.26	3.5

Cooling capacity table

600																					
EWT	Δt	Air inlet condition																			
		DB:26.7 WB:19.4				DB:27 WB:18				DB:27 WB:19				DB:27 WB:20				DB:29 WB:21			
		TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
5	3	5.67	3.42	1.63	130.8	5.2	3.76	1.49	110.1	5.55	3.56	1.59	125.5	5.88	3.41	1.68	140.4	6.2	3.26	1.78	156.5
	4	5.45	3.31	1.17	68.0	5.01	3.64	1.08	57.4	5.36	3.46	1.15	65.8	5.68	3.31	1.22	73.7	5.96	3.15	1.28	81.3
	5	5.21	3.2	0.9	39.8	4.77	3.56	0.82	33.3	5.11	3.35	0.88	38.3	5.45	3.19	0.94	43.5	5.73	4.95	0.99	48.1
	6	4.98	3.11	0.71	25.3	4.54	3.44	0.65	21.0	4.89	3.24	0.7	24.3	5.23	3.07	0.75	27.8	5.48	2.92	0.79	30.5
	7	4.74	2.96	0.58	16.8	4.29	3.35	0.53	13.8	4.63	3.13	0.57	16.0	4.97	2.96	0.61	18.5	5.25	2.8	0.64	20.6
6	3	5.35	3.28	1.53	116.4	4.87	3.62	1.4	96.6	5.23	3.42	1.5	111.1	5.57	3.26	1.6	126.1	5.89	3.11	1.69	141.1
	4	5.14	3.17	1.1	60.4	4.66	3.5	1	49.6	5.02	3.31	1.08	57.6	5.35	3.16	1.15	65.5	5.65	3.01	1.21	73.1
	5	4.89	3.05	0.84	35.0	4.44	3.4	0.76	28.9	4.79	3.21	0.82	33.6	5.1	3.02	0.88	38.2	5.43	2.89	0.93	43.1
	6	4.66	2.96	0.67	22.0	4.21	3.29	0.6	18.1	4.55	3.09	0.65	21.0	4.89	2.91	0.7	24.3	5.16	2.76	0.74	27.0
	7	4.41	2.83	0.54	14.5	3.95	3.2	0.49	11.7	4.3	3.01	0.53	13.8	4.61	2.81	0.57	15.9	4.93	2.65	0.61	18.1
7	3	5	3.12	1.43	101.5	4.53	3.47	1.3	83.6	4.89	3.28	1.4	97.1	5.25	3.11	1.5	112.0	5.54	2.95	1.59	124.9
	4	4.79	3.01	1.03	52.5	4.3	3.4	0.92	42.2	4.66	3.17	1	49.7	5.01	3.01	1.08	57.4	5.32	2.86	1.14	64.8
	5	4.55	2.9	0.78	30.3	4.08	3.29	0.7	24.4	4.45	3.06	0.77	29.0	4.77	2.88	0.82	33.3	5.07	2.74	0.87	37.6
	6	4.31	2.82	0.62	18.9	3.84	3.18	0.55	15.0	4.23	2.95	0.61	18.2	4.55	2.77	0.65	21.1	4.84	2.62	0.69	23.8
	7	4.08	2.69	0.5	12.4	3.58	3.07	0.44	9.6	3.94	2.86	0.48	11.6	4.28	2.68	0.53	13.7	4.58	2.51	0.56	15.7
8	3	4.66	2.99	1.33	88.2	4.15	3.35	1.19	70.2	4.55	3.13	1.3	84.1	4.89	2.95	1.4	97.4	5.21	2.79	1.49	110.3
	4	4.45	2.88	0.96	45.3	3.95	3.24	0.85	35.7	4.32	3.06	0.93	42.6	4.66	2.86	1	49.6	4.96	2.71	1.07	56.2
	5	4.23	2.76	0.73	26.1	3.71	3.15	0.64	20.1	4.1	2.93	0.7	24.6	4.44	2.75	0.76	28.9	4.75	2.6	0.82	33.0
	6	3.95	2.68	0.57	15.9	3.47	3.06	0.5	12.2	3.87	2.83	0.55	15.3	4.21	2.63	0.6	18.1	4.51	2.48	0.65	20.7
	7	3.72	2.56	0.46	10.3	3.22	2.93	0.4	7.7	3.6	2.73	0.44	9.7	3.94	2.53	0.48	11.6	4.22	2.38	0.52	13.3
9	3	4.33	2.85	1.24	76.2	3.81	3.22	1.09	59.0	4.21	2.99	1.21	72.0	4.57	2.81	1.31	84.8	4.86	2.66	1.39	96.1
	4	4.08	2.75	0.88	38.2	3.58	3.13	0.77	29.4	3.96	2.9	0.85	35.9	4.3	2.73	0.92	42.4	4.61	2.56	0.99	48.6
	5	3.87	2.63	0.66	21.9	3.31	3.06	0.57	16.1	3.74	2.81	0.64	20.5	4.08	2.61	0.7	24.4	4.39	2.45	0.75	28.2
	6	3.61	2.54	0.52	13.2	3.06	2.96	0.44	9.5	3.48	2.72	0.5	12.3	3.85	2.49	0.55	15.1	4.15	2.33	0.6	17.6
	7	3.34	2.41	0.41	8.3	2.86	/	0.35	6.1	3.22	2.59	0.4	7.8	3.57	2.41	0.44	9.5	3.87	2.23	0.47	11.2
10	3	3.97	2.7	1.14	64.1	3.42	3.1	0.98	47.5	3.81	2.88	1.09	59.0	4.19	2.69	1.2	71.5	4.52	2.52	1.3	83.1
	4	3.72	2.6	0.8	31.7	3.16	3.04	0.68	22.8	3.6	2.79	0.77	29.6	3.96	2.59	0.85	35.9	4.26	2.42	0.92	41.5
	5	3.48	2.52	0.6	17.7	2.96	/	0.51	12.8	3.33	2.7	0.57	16.3	3.71	2.49	0.64	20.2	4.03	2.31	0.69	23.8
	6	3.24	2.41	0.46	10.7	2.81	/	0.4	8.0	3.1	2.59	0.44	9.7	3.47	2.35	0.5	12.2	3.77	2.2	0.54	14.5
	7	2.96	2.31	0.36	6.6	2.64	/	0.32	5.2	2.82	2.5	0.35	5.9	3.18	2.28	0.39	7.6	3.53	2.09	0.43	9.3
11	3	3.58	2.58	1.03	52.2	3.04	/	0.87	37.5	3.45	2.75	0.99	48.6	3.81	2.57	1.09	59.2	4.15	2.38	1.19	70.2
	4	3.36	2.49	0.72	25.8	2.89	/	0.62	19.1	3.22	2.65	0.69	23.8	3.59	2.45	0.77	29.5	3.92	2.29	0.84	35.2
	5	3.1	2.4	0.53	14.1	2.75	/	0.47	11.1	2.96	2.58	0.51	12.8	3.34	2.34	0.57	16.3	3.67	2.18	0.63	19.7
	6	2.83	2.3	0.4	8.1	2.57	/	0.37	6.7	2.72	2.47	0.39	7.5	3.08	2.27	0.44	9.7	3.4	2.07	0.49	11.8
	7	2.52	2.22	0.31	4.7	2.43	/	0.3	4.4	2.43	/	0.3	4.4	2.79	2.15	0.34	5.8	3.13	1.95	0.38	7.3
12	3	3.2	2.46	0.92	41.8	2.81	/	0.81	32.2	3.05	2.65	0.87	37.9	3.45	2.42	0.99	48.6	3.78	2.25	1.08	58.0
	4	2.97	2.38	0.64	20.1	2.68	/	0.58	16.4	2.82	2.56	0.61	18.2	3.21	2.33	0.69	23.6	3.55	2.15	0.76	28.9
	5	2.71	2.29	0.47	10.8	2.56	/	0.44	9.6	2.57	2.48	0.44	9.7	2.96	2.25	0.51	12.8	3.29	2.05	0.57	15.9
	6	2.41	2.22	0.35	5.9	2.38	/	0.34	5.8	2.38	2.34	0.34	5.8	2.68	2.15	0.38	7.3	3.02	1.94	0.43	9.3
	7	2.13	/	0.26	3.4	2.22	/	0.27	3.7	2.2	/	0.27	3.6	2.34	2.04	0.29	4.1	2.74	1.82	0.34	5.6
13	3	2.8	2.35	0.8	31.9	2.59	/	0.74	27.4	2.64	2.55	0.76	28.3	3.04	2.31	0.87	37.7	3.4	2.13	0.98	47.1
	4	2.56	2.26	0.55	15.0	2.47	/	0.53	14.0	2.47	2.43	0.53	14.0	2.8	2.25	0.6	17.9	3.16	2.02	0.68	22.8
	5	2.29	2.23	0.39	7.7	2.31	/	0.4	7.8	2.31	/	0.4	7.8	2.56	2.14	0.44	9.6	2.91	1.93	0.5	12.4
	6	2.08	/	0.3	4.4	2.15	/	0.31	4.7	2.15	/	0.31	4.7	2.25	2.06	0.32	5.2	2.63	1.82	0.38	7.0
	7	1.9	/	0.23	2.7	1.97	/	0.24	2.9	1.98	/	0.24	2.9	1.98	1.93	0.24	2.9	2.3	1.72	0.28	4.0

Cooling capacity modification coefficient table:

Speed	250		300		400		500		600	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
High	1	1	1	1	1	1	1	1	1	1
Mid	0.84	0.81	0.85	0.82	0.85	0.83	0.92	0.88	0.94	0.9
Low	0.75	0.72	0.78	0.75	0.74	0.71	0.80	0.77	0.84	0.81

Heating Capacity:

Remark:

Δ t: Temperature Difference (°C) ; TH: Total Heating Capacity (kW);

WF: Water Flow (m³/h); WPD: Water Pressure Drop (kPa)

250																								
Δt	Air inlet temp. (20°C DB)																							
	Water inlet temp. (°C)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	1.00	0.09	0.6	1.57	0.14	1.5	2.18	0.19	2.8	2.75	0.24	4.4	3.32	0.29	6.5	3.91	0.34	9.0	4.47	0.38	11.7	5.03	0.43	14.9
8	1.11	0.12	1.1	1.73	0.19	2.8	2.32	0.25	4.9	2.89	0.31	7.7	3.45	0.37	10.9	4.01	0.43	14.8	4.58	0.49	19.2	5.14	0.55	24.2
6	1.29	0.18	2.7	1.88	0.27	5.7	2.43	0.35	9.6	3.10	0.43	14.9	3.59	0.51	21.0	4.15	0.60	28.1	4.68	0.67	35.7	5.28	0.76	45.4
300																								
Δt	Air inlet temp. (20°C DB)																							
	Water inlet temp. (°C)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	1.22	0.11	1.0	1.92	0.16	2.4	2.65	0.23	4.5	3.35	0.29	7.2	4.05	0.35	10.6	4.76	0.41	14.6	5.45	0.47	19.1	6.13	0.53	24.2
8	1.36	0.15	1.8	2.11	0.23	4.5	2.83	0.30	8.0	3.53	0.38	12.5	4.20	0.45	17.8	4.89	0.53	24.1	5.58	0.60	31.3	6.26	0.67	39.5
6	1.57	0.23	4.4	2.29	0.33	9.4	2.96	0.42	15.7	3.78	0.53	24.2	4.37	0.63	34.2	5.06	0.73	45.8	5.70	0.82	58.2	6.43	0.92	74.1
400																								
Δt	Air inlet temp. (20°C DB)																							
	Water inlet temp. (°C)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	1.44	0.12	1.2	2.26	0.19	2.9	3.13	0.27	5.6	3.95	0.34	8.9	4.78	0.41	12.9	5.61	0.48	17.9	6.42	0.55	23.4	7.23	0.62	29.7
8	1.60	0.17	2.3	2.49	0.27	5.5	3.33	0.36	9.8	4.16	0.45	15.3	4.96	0.53	21.8	5.77	0.62	29.5	6.58	0.71	38.3	7.39	0.79	48.3
6	1.85	0.27	5.4	2.70	0.39	11.4	3.50	0.50	19.2	4.41	0.62	29.7	5.16	0.74	41.9	5.97	0.86	56.1	6.73	0.96	71.3	7.59	1.09	90.7
500G																								
Δt	Air inlet temp. (20°C DB)																							
	Water inlet temp. (°C)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	1.89	0.16	1.4	2.96	0.25	3.4	4.11	0.35	6.6	5.18	0.45	10.4	6.26	0.54	15.3	7.36	0.63	21.1	8.42	0.72	27.6	9.48	0.82	35.0
8	2.10	0.23	2.7	3.26	0.35	6.5	4.37	0.47	11.6	5.45	0.59	18.1	6.50	0.70	25.7	7.56	0.81	34.8	8.62	0.93	45.2	9.68	1.04	57.0
6	2.43	0.35	6.4	3.53	0.51	13.5	4.58	0.66	22.7	5.75	0.82	35.0	6.76	0.97	49.5	7.83	1.12	66.2	8.82	1.26	84.1	9.95	1.43	107.0
600																								
Δt	Air inlet temp. (20°C DB)																							
	Water inlet temp. (°C)																							
	35			40			45			50			55			60			65			70		
	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
10	2.09	0.18	1.5	3.28	0.28	3.8	4.55	0.39	7.3	5.73	0.49	11.6	6.93	0.60	17.0	8.15	0.70	23.5	9.33	0.80	30.8	10.50	0.90	39.0
8	2.32	0.25	3.0	3.61	0.39	7.2	4.84	0.52	12.9	6.04	0.65	20.1	7.20	0.77	28.6	8.37	0.90	38.7	9.55	1.03	50.4	10.72	1.15	63.5
6	2.69	0.39	7.1	3.91	0.56	15.1	5.07	0.73	25.3	6.38	0.90	39.0	7.49	1.07	55.1	8.66	1.24	73.8	9.77	1.40	93.7	11.01	1.58	119.2

Heating capacity modification coefficient table:

Speed	250	300	400	500	600
	TH	TH	TH	TH	TH
High	1	1	1	1	1
Mid	0.86	0.88	0.89	0.90	0.90
Low	0.74	0.75	0.75	0.76	0.75

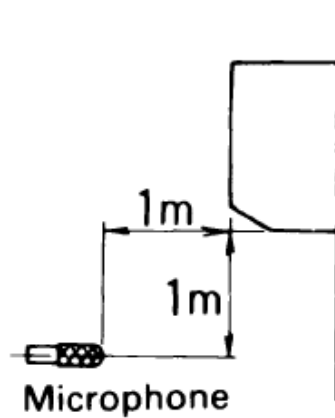
Altitude modification coefficient table:

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

Sound Levels

Test condition

■ Wall Mounted Type



Unit Number	Model	Noise level under three speeds of fan (dB(A))		
		H	M	L
1	250	30	24	20
2	300	35	29	24
3	400	37	31	26
4	500	39	33	28
5	600	40	34	29

13. Installation

13.1 Installation Attention

※ Warning:

- **Be sure only trained and qualified service personnel to install, repair or service the equipment.**

Improper installation, repair, and maintenance may result in electric shocks, short-circuit, leaks, fire or other damage to the equipment.

- **Install according to this installation instructions strictly.**
- **If installation is defective, it will cause water leakage, electrical shock and fire.**
- **When installing the unit in a small room, take measures against to keep water concentration from exceeding allowable safety limits in the event of water leakage.**

Contact the place of purchase for more information.

- **Use the attached accessories parts and specified parts for installation.**

Otherwise, it will cause the set to fall, water leakage, electrical shock fire.

- **Install at a strong and firm location which is able to withstand the set's weight.**

If the strength is not enough or installation is not properly done, the set will drop to cause injury.

- **The appliance must be installed 2.3m above floor.**
- **The appliance shall not be installed in the laundry.**
- **Before obtaining access to terminals, all supply circuits must be disconnected.**
- **The appliance must be positioned so that the plug is accessible.**
- **The enclosure of the appliance shall be marked by word, or by symbols, with the direction of the fluid flow.**
- **For electrical work, follow the local national wiring standard, regulation and this installation instruction. An independent circuit and single outlet must be used.**

If electrical circuit capacity is not enough or defect in electrical work, it will cause electrical shock fire.

- **Use the specified cable and connect tightly and clamp the cable so that no external force will be acted on the terminal.**

If connection or fixing is not perfect, it will cause heat-up or fire at the connection.

- **Wiring routing must be properly arranged so that control board cover is fixed properly.**
- **If control board cover is not fixed perfectly, it will cause heat-up at connection point of terminal, fire or electrical shock.**

If the supply cord is damaged, it must be replaced by the manufacture or its service agent or a similarly qualified person in order to avoid a hazard.

- **An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.**
- **Do not modify the length of the power supply cord or use of extension cord, and do not share the single outlet with other electrical appliances.**

Otherwise, it will cause fire or electrical shock.

- **Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes.**

Improper installation work may result in the equipment falling and causing accidents.

- **If the water leaks during installation, ventilate the area immediately.**
- **After completing the installation work, check that water does not leak.**

※ **Caution:**

Ground the air conditioner.

Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire. Incomplete grounding may result in electric shocks.

Be sure to install an earth leakage breaker.

Failure to install an earth leakage breaker may result in electric shocks.

Connect the outdoor unit wires, then connect the indoor unit wires.

You are not allowed to connect the air conditioner with the power source until wiring and piping the air conditioner is done.

While following the instructions in this installation manual, install drain piping in order to ensure proper drainage and insulate piping in order to prevent condensation.

Improper drain piping may result in water leakage and property damage.

Install the indoor and outdoor units, power supply wiring and connecting wires at least 1 meter away from televisions or radios in order to prevent image interference or noise.

Depending on the radio waves, a distance of 1 meter may not be sufficient enough to eliminate the noise.

The appliance is not intended for use by young children or infirm persons without supervision.

Don't install the air conditioner in the following locations:

- There is petrolatum existing.
- There is salty air surrounding (near the coast).
- There is caustic gas (the sulfide, for example) existing in the air (near a hot spring).
- The Volt vibrates violently (in the factories).
- In buses or cabinets.
- In kitchen where it is full of oil gas.
- There is strong electromagnetic wave existing.
- There are inflammable materials or gas.
- There is acid or alkaline liquid evaporating.
- Other special conditions.

※ **Installation Order:**

- Select the location;
- Install the indoor unit;
- Install the outdoor unit;
- Connect the drain pipe;
- Wiring;
- Test operation.

Accessory

Name	Shape	Quantity	Function
Installation board		2	_____
Screw ST3.9x25 for installation board		3	Secure the installation board
Plastic expanded tube		3	_____
Wrapping tape		1	_____
Drain pipe		2	_____
Sealing clay		2	_____
Wall conduit cover		1	_____
Remote controller (including operation manual)		1	_____
Frame		1	Hold the remote controller
Mounting screw(ST2.9×10-C-H)		2	Insulation Holder for remote controller
Alkaline dry batteries (AM4)		2	_____
Owner's manual	_____	1	_____
Installation manual	_____	1	_____

13.3 Inspecting and Handling the unit

At delivery, the package should be checked and any damage should be reported immediately to the carrier claims agent.

When handling the unit, take into account the following:

-  Fragile, handle the unit with care.
-  Keep the unit upright in order to avoid compressor damage.
- Choose on before hand the path along which the unit is to be brought in.
- Move this unit as originally package as possible.
- When lifting the unit, always use protectors to prevent belt damage and pay attention to the position of the unit's centre of gravity.

13.4 Indoor Unit Installation

13.4.1 Installation place

Installation in the following places may cause trouble. If it is unavoidable, please consult with the local dealer.

- ✧ A place full of machine oil.
- ✧ A saline place such as coast.
- ✧ A place full of sulfide gas such as hot-spring resort.
- ✧ Places where there are high frequency machines such as wireless equipment, welding
- ✧ Machine and medical facility.
- ✧ A place there is no combustive gases and volatile matter.
- ✧ A place of special environmental conditions.

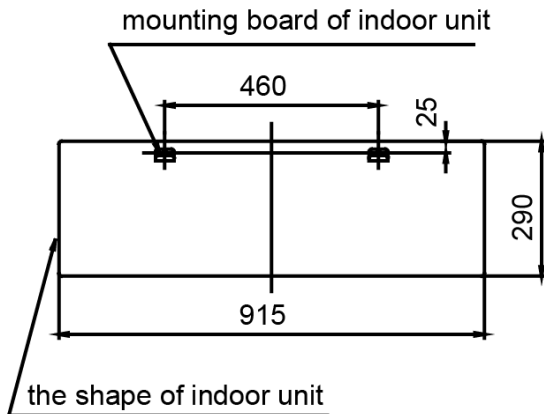
Installation in the following places:

- ✓ A place where is no obstacle near the inlet and outlet area.
- ✓ A place which can bear the indoor unit.
- ✓ A place which is convenient to maintenance.
- ✓ A place which provides the space around the indoor unit as required right in the diagram.
- ✓ There is strong electromagnetic wave existing.
- ✓ A place which is far from heat, steam and inflammable gas.

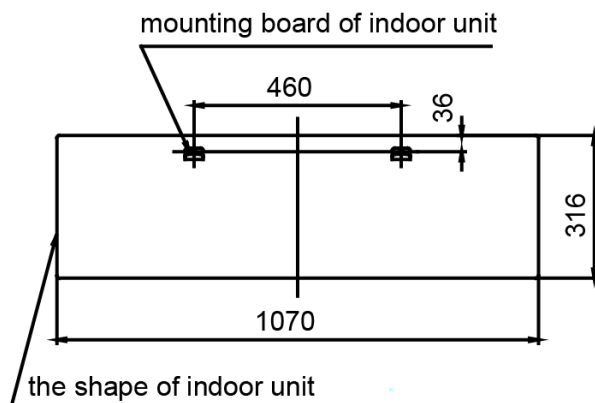
13.4.2 Drilling A Hole and Mounting Installation Board

Installation Board and Its Direction (unit: mm)

42.5\51\68 type:



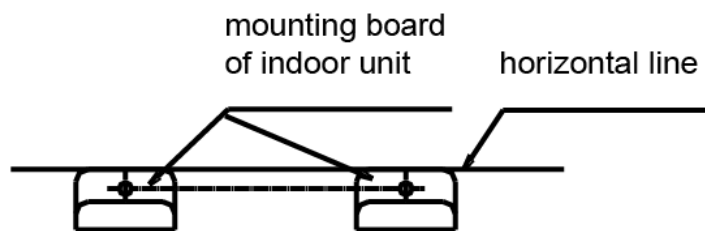
85\102 type:



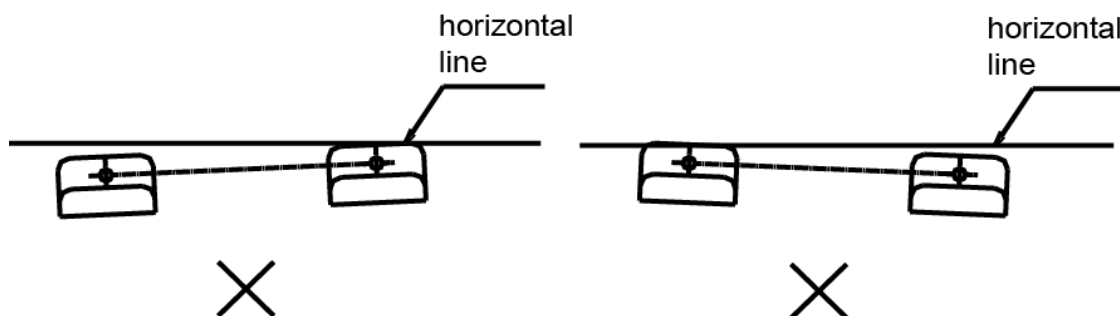
1. Fix the installation board.

- Install the installation board horizontally on structural parts in the wall with the spaces provided around the plate.
- In case of brick, concrete or similar type walls, make 5mm dia, holes in the wall. Insert clip anchors for appropriate mounting screws.
- Fix the installation board on the wall.

Right installation:



False installation:



2. Drilling a hole.

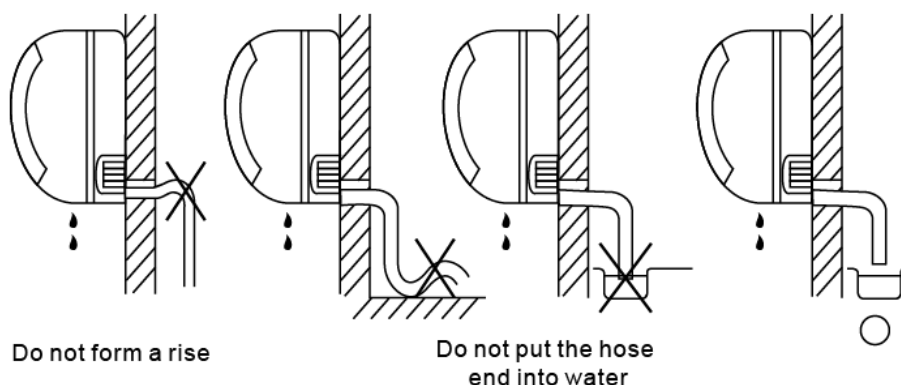
- Determine the pipe hole position using the installation board, and drill the pipe hole (N95mm) so it slants slightly downward.

Always use a wall hole conduit when piercing metal lath, ply wood or metal plate.

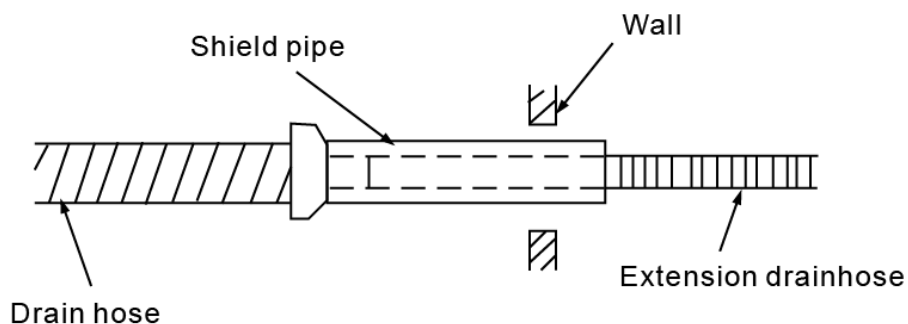
13.4.3 Connective Pipe and Drainage Installation

1. Drainage

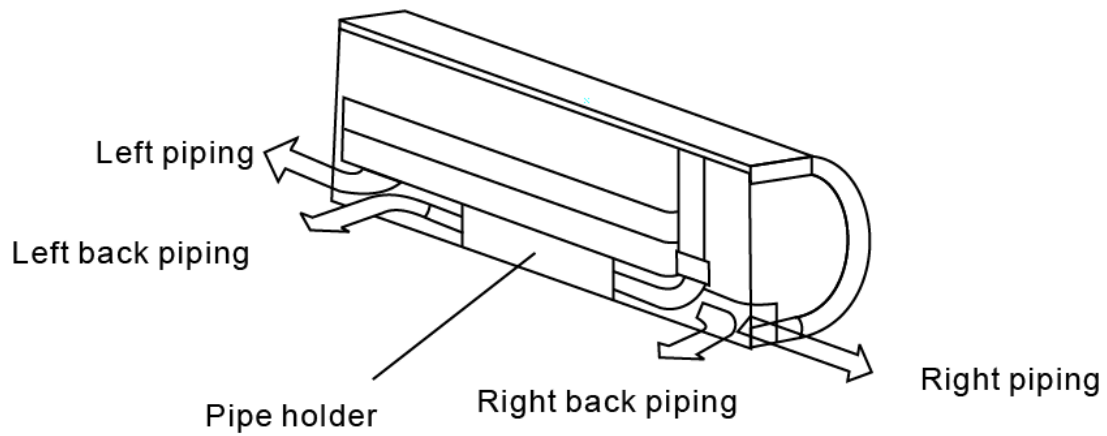
Run the drain hose sloping downward. Do not install the drain hose as illustrated below.



When connection extension drain hose, insulate the connecting part of extension drain hose with a shield pipe.

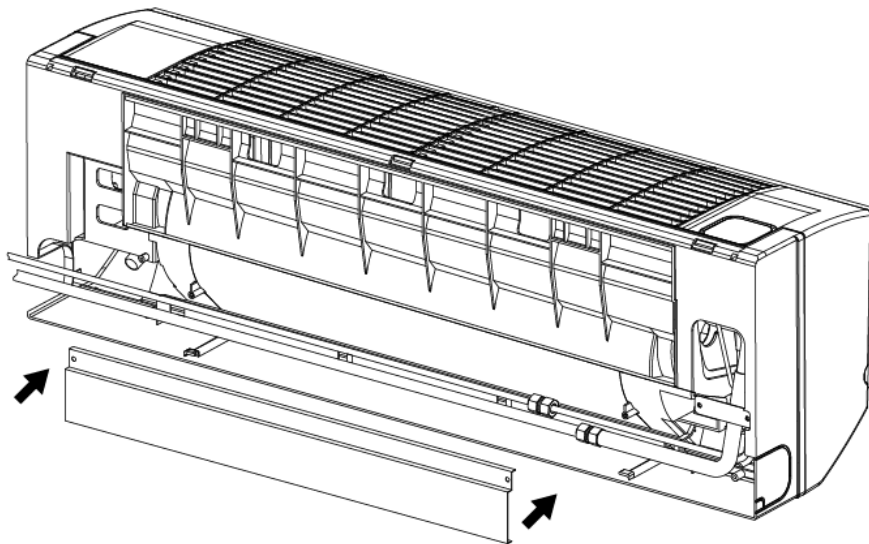


2. Connection pipe

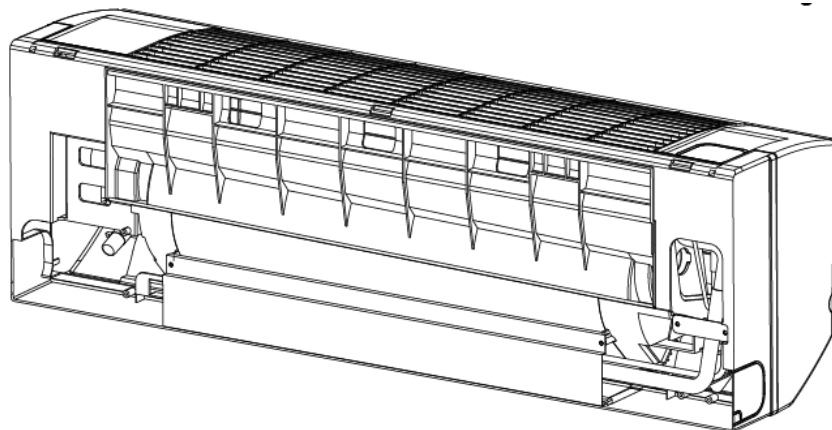


1) When install the water pipe of G unit, please following it:

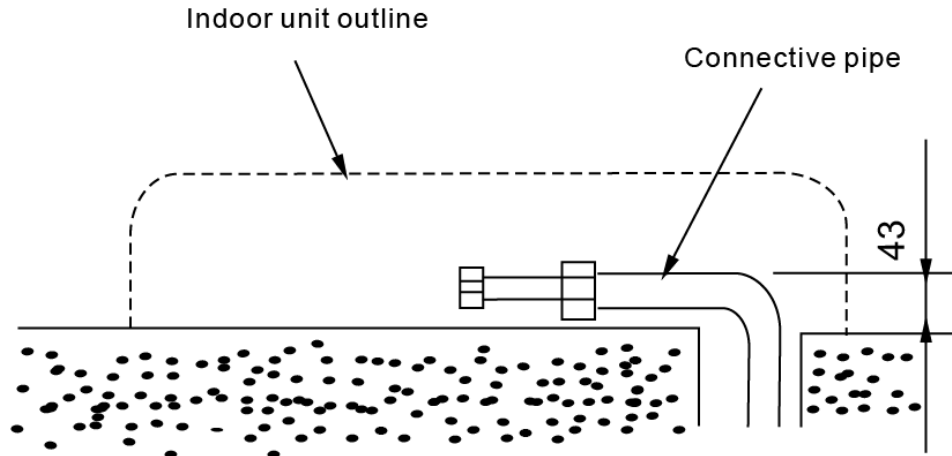
- a) Put down two screws between the pipe holder and unit, and then get down pipe holder. (Refer to the following fig)



- b) Connect pipe.
- c) Install the pipe holder. (Refer to the following fig)



- 2) For the left-hand and rear-left-hand piping, install the piping as shown. Bend the connective pipe to be laid at 43mm height or less from the wall.



- 3) Fix the end of the connective pipe.

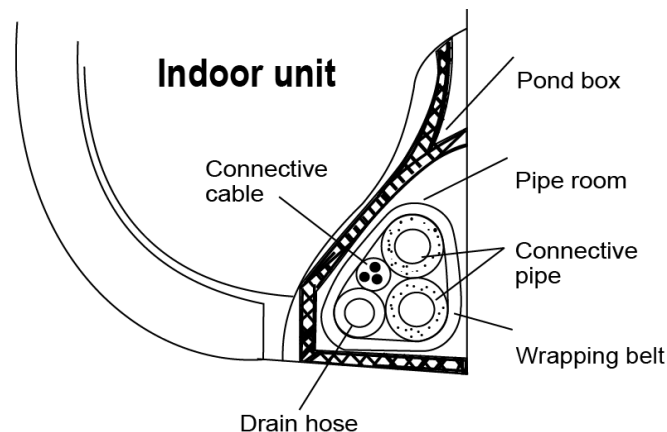
Caution:

- Connect the indoor unit first then the outdoor unit and bend and arrange the pipe carefully.
- Do not allow the piping to let out from the back of the indoor unit.
- Be careful not to let the drain hose slack.
- Insulate both of the auxiliary piping.
- Banding the drain hose under the auxiliary pipe.
- Do not allow the piping to let out from the back of the indoor unit.

3. Piping and bandaging

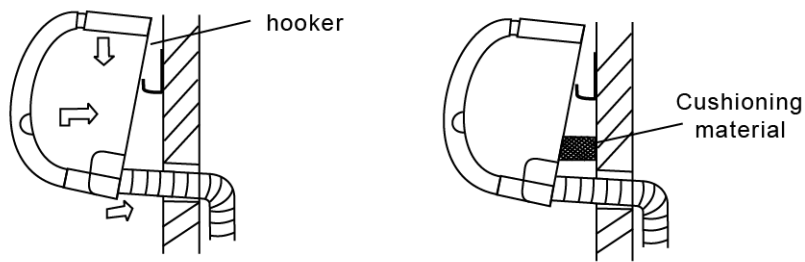
Wind the connective cable, drain hose and wiring with tape securely, evenly as shown below.

Because the condensed water from rear of the indoor unit is gathered in Pond Box and is piped out of room. Do not put anything else in the box.

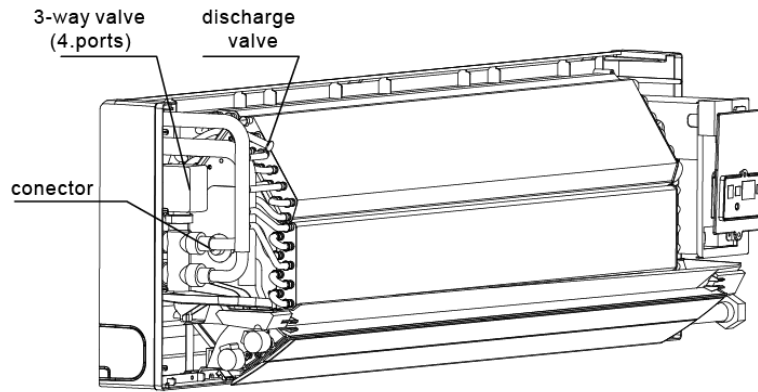


13.4.4 Indoor Unit Installation

- ✧ Pass the piping through the hole in the wall.
- ✧ Put the claw at the back of the indoor unit on the hook of the installation board, move the Indoor Unit from side to side to see that it is securely hooked.
- ✧ Piping can easily be made by lifting the indoor unit with a cushioning material between the indoor unit and the wall. Get it out after finish piping.
- ✧ Push the lower part of the Indoor Unit up to the wall, then move the Indoor Unit from side to side, up and down to check if it is hooked securely.



13.5 Water Pipe Installation



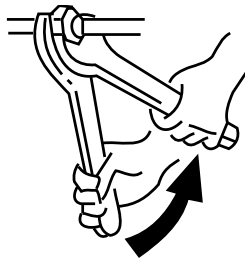
13.5.1 Material and Size of the Piping

Pipe material	Copper Pipe for Air Conditioner	
Model	42.5/51/68	85/102
Coil connections (flat plate)	3/4"	3/4"
	3/4"	3/4"

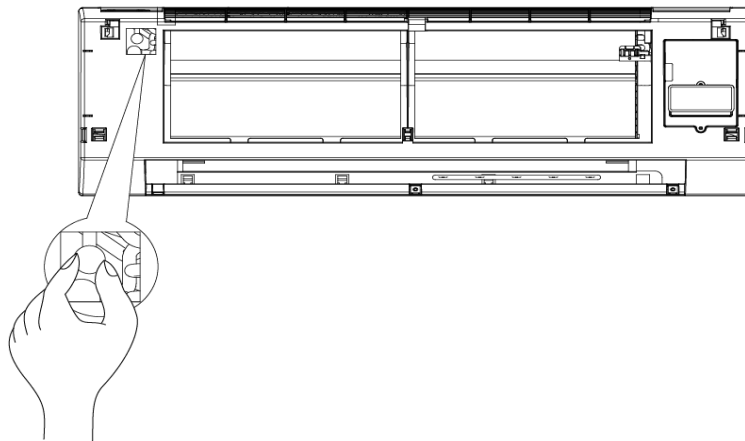
13.5.2 Connection of the Water Pipe

Connection of the water pipe should be done by professionals.

Double-span should be used when connecting pipes of Indoor Unit.



At the first debugging, completely expel air from coils via expelling valve.

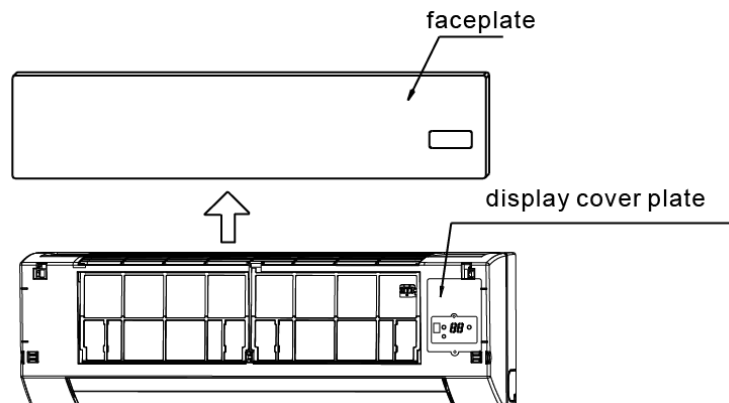


13.6 Wiring

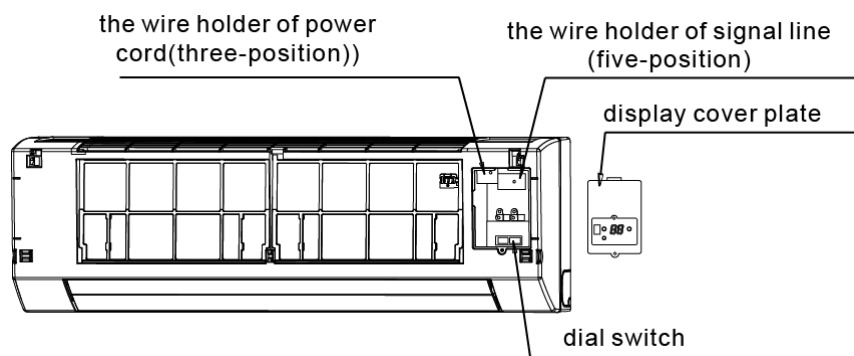
Caution:

The reserved function is indicated in broken line table, users can select it when necessary.

1. Take out the faceplate, then dismantle the display cover plate.



2. Individual connects the power cord and signal line, adjusts the dial switch.



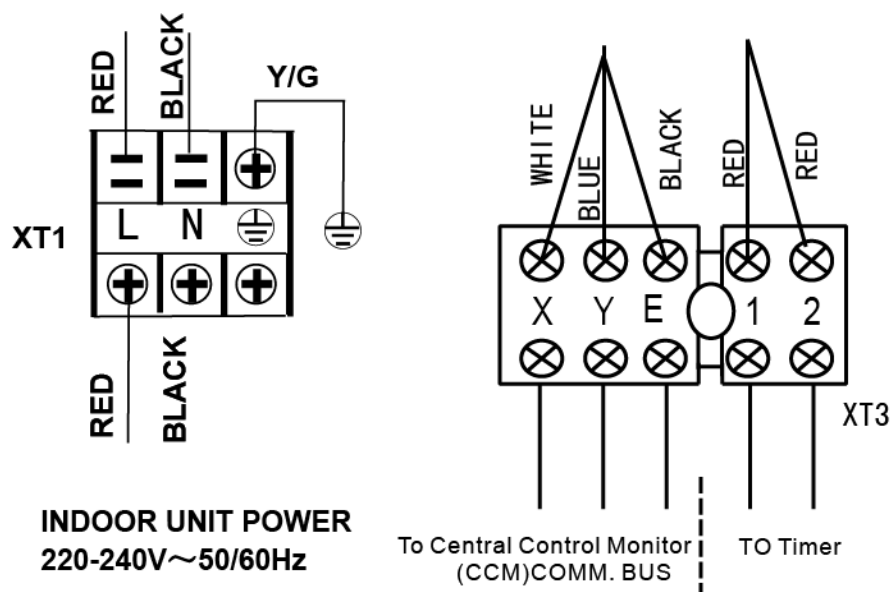
13.6.1 Terminal Board Diagram

Please refer to the indoor unit wiring diagram for the wiring.

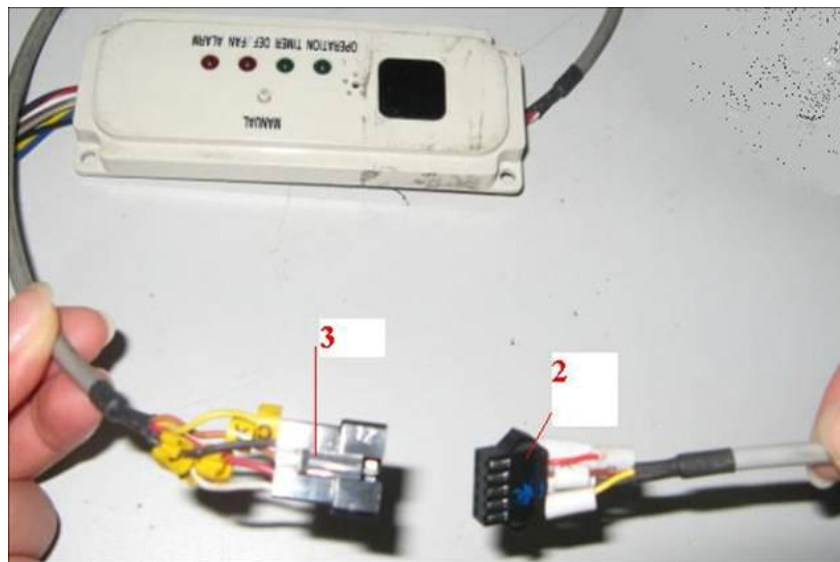
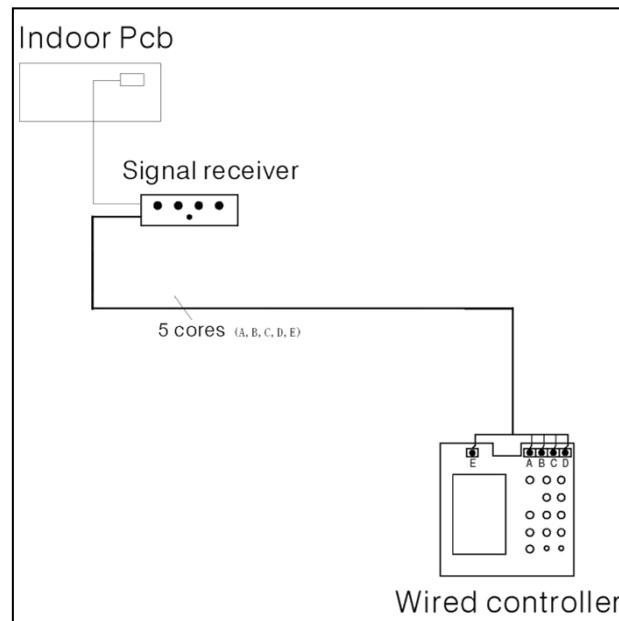
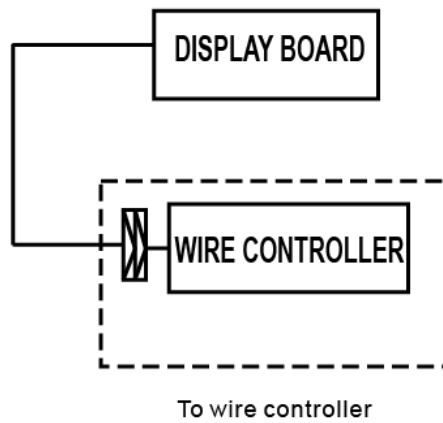
Note:

The air-conditioners can connect with Central Control Monitor (CCM). Before operation, please wiring correctly and set system address and network address of indoor units.

Single phase indoor unit:



Please adopt the shielded twisted-pair wire, and connect the shielded layer to E



Insert 2 & 3 together is OK

The reserved wire control function is indicated in broken line table, users can purchase the wire controller when necessary.

13.6.2 Network address set

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.

Toggle switch set				Network address code
SW1	ENC2			
	 ~ 		00~15	
	 ~ 		16~31	
	 ~ 		32~47	
	 ~ 		48-63	

Functions of cold-air proof and heat-air proof for your select:

Toggle switch set	Function selection
SW2	
	Cold-air proof OFF, heat-air proof OFF
	Cold-air proof OFF, heat-air proof ON
	Cold-air proof ON, heat-air proof OFF
	Cold-air proof ON, heat-air proof ON

13.6.3 Trouble-shooting:

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

