



HIGH ESP DUCT TECHNICAL MANUAL

DC SYSTEM

220-240V/50&60Hz

INDOOR UNITS

Revision V 2303



Model Numbers:

CC-CPAH070-1S, CC-CPAH085-1S, CC-CPAH096-1S



WARNING

- Installation MUST conform with local building codes or, in the absence of local codes, with the National Electrical Code NFPA70/ANSI C1-1993 or current edition and Canadian Electrical Code Part1 CSA C.22.1.
- The information contained in the manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments
- Installation or repairs made by unqualified persons can result in hazards to you and others.
- Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.

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1. External appearance

- CC-CPAH070-1S, CC-CPAH085-1S, CC-CPAH096-1S



2. Specifications

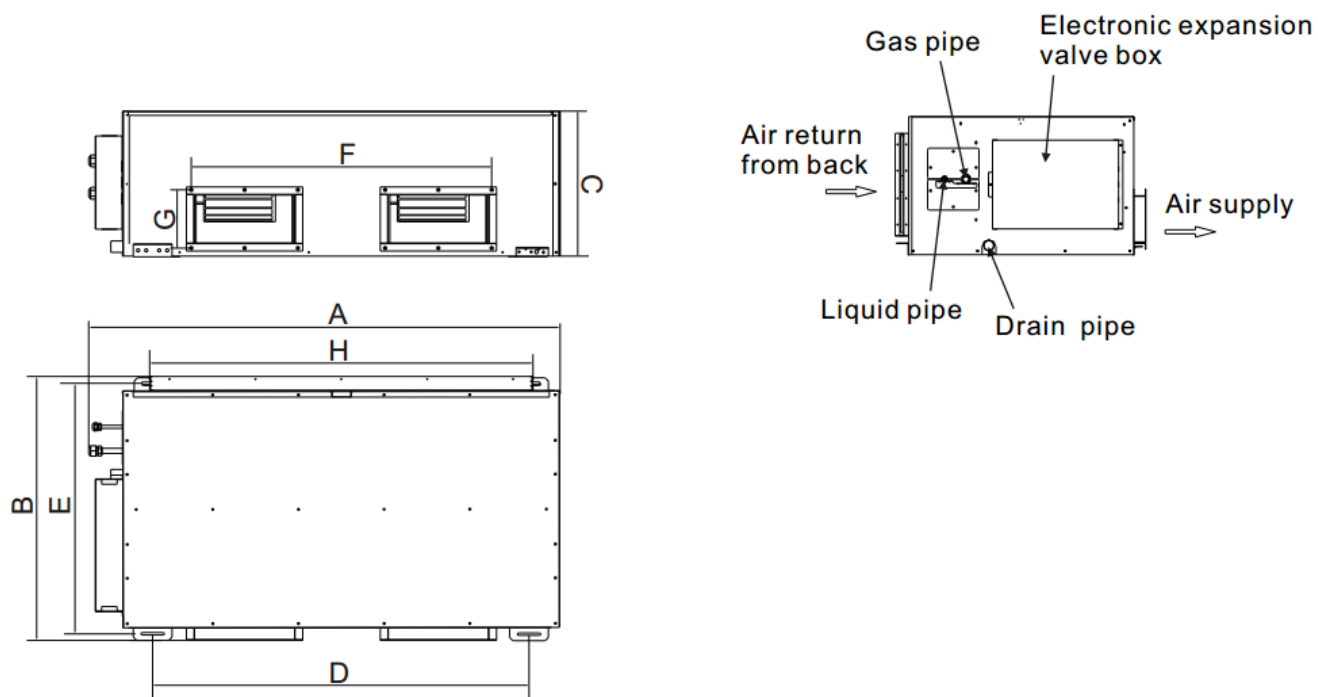
Model			CC-CPAH070-1S	CC-CPAH085-1S	CC-CPAH096-1S
Power supply			220-240V/1N/50Hz	220-240V/1N/50Hz	220-240V/1N/50Hz
Capacity	Cooling	kW	20	25	28
	Heating	kW	22	27.5	30.8
Rated input		kW	1.2	1.2	1.3
Fan motor	Model		DRN-310-600-8*2	DRN-310-600-8*2	DRN-310-600-8*2
	Type		DC	DC	DC
	Brand		Yongan	Yongan	Yongan
	Capacitor	μF	/	/	/
	Speed	r/min	1160	1160	1160
	ESP	Pa	150	150	150
Indoor coil	Number of rows		4	4	4
	Fin type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube diameter and type	mm	Ø9.52, Innergroove tube	Ø9.52, Innergroove tube	Ø9.52, Innergroove tube
Air flow		m³/h	3750/3250/2900	3750/3250/2900	4100/3250/2900
Sound pressure level		dB(A)	45-50	46-51	48-52
Body	Dimension (W×H×D)	mm	1440*811*448	1440*811*448	1440*811*448
	Packing (W×H×D)	mm	1515*885*580	1515*885*580	1515*885*580
	Net/Gross weight	kg	102/113	102/113	102/113
Refrigerant type			R410A	R410A	R410A
Throttle type			EXV	EXV	EXV
Design pressure		MPa	4.5	4.5	4.5
Liquid pipe / Gas pipe		mm	Ø12.7/Ø22.2	Ø12.7/Ø22.2	Ø12.7/Ø22.2
Connecting wire	Power wire	mm²	2.5²×3(L≤20m)	2.5²×3(L≤20m)	2.5²×3(L≤20m)
			4²×3(20m<L≤50m)	4²×3(20m<L≤50m)	4²×3(20m<L≤50m)
	Signal wire	mm²	0.75²×3 shield cable	0.75²×3 shield cable	0.75²×3 shield cable
Drainage water pipe (Outer diameter)		mm	Ø30	Ø30	Ø30
Controller	Standard		3-pin wired controller	3-pin wired controller	3-pin wired controller
	Optional		Remote controller	Remote controller	Remote controller

Notes:

- Nominal cooling capacities are based on the following conditions.
 - Outdoor temperature: 35°C DB
 - Return air temperature: 27°C DB, 19°C WB
 - Equivalent piping length: 8m in horizontal
- Nominal heating capacities are based on the following condition.
 - Outdoor temperature: 7°C DB, 6°C WB
 - Return air temperature: 20°C DB
 - Equivalent piping length: 8m in horizontal
- Sound pressure level: Semi-anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.4 m.
- The above data may be changed without notice for future improvement on quality and performance.

3. Dimensions

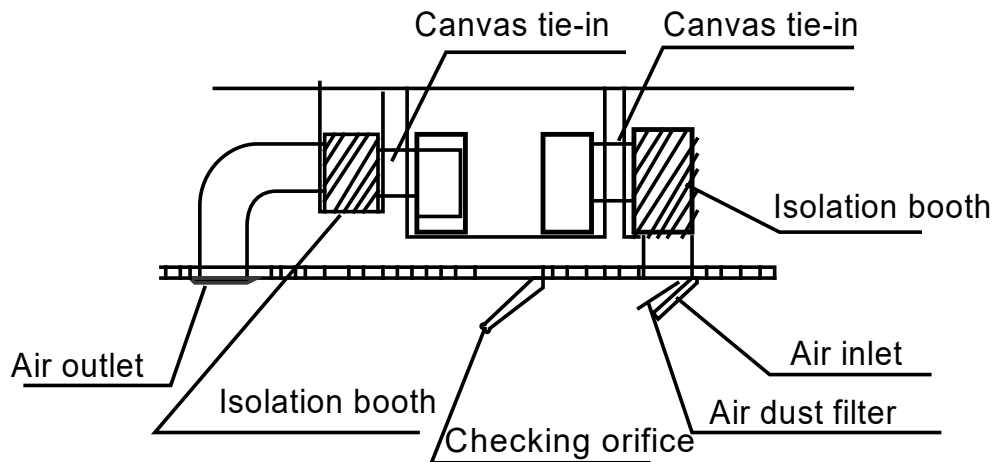
- CC-CPAH070-1S,CC-CPAH085-1S,CC-CPAH096-1S



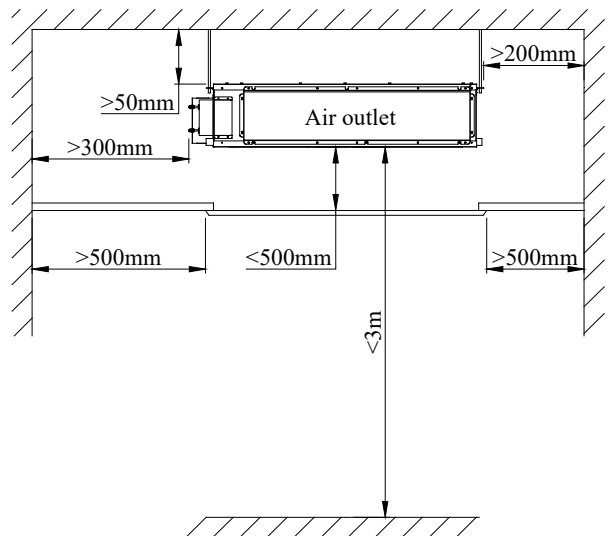
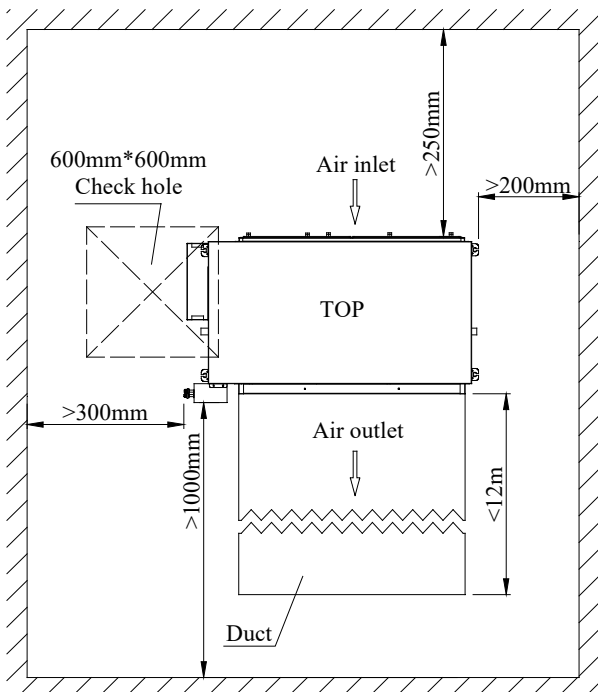
Mode	Body dimension(mm)			Installation dimension (mm)		Air outlet dimension (mm)		Air return dimension (mm)	
	A	B	C	D	E	F	G	H	I
CC-CPAH070-1S	1465	811	448	1162	771	930	180	1174	272
CC-CPAH085-1S	1465	811	448	1162	771	930	180	1174	272
CC-CPAH096-1S	1465	811	448	1162	771	930	180	1174	272

4. Service space

- Ensure the needed spaces for installation and maintenance.
- The ceiling is horizontal and its structure can endure the weight of the indoor unit.
- The outlet and the inlet are not impeded, and the influence of external air is the least.
- The air flow can reach throughout the room.
- The connecting pipe and drainpipe could be extracted out easily.
- There is no direct radiation from heaters.
- Below is the recommended duct installation method:

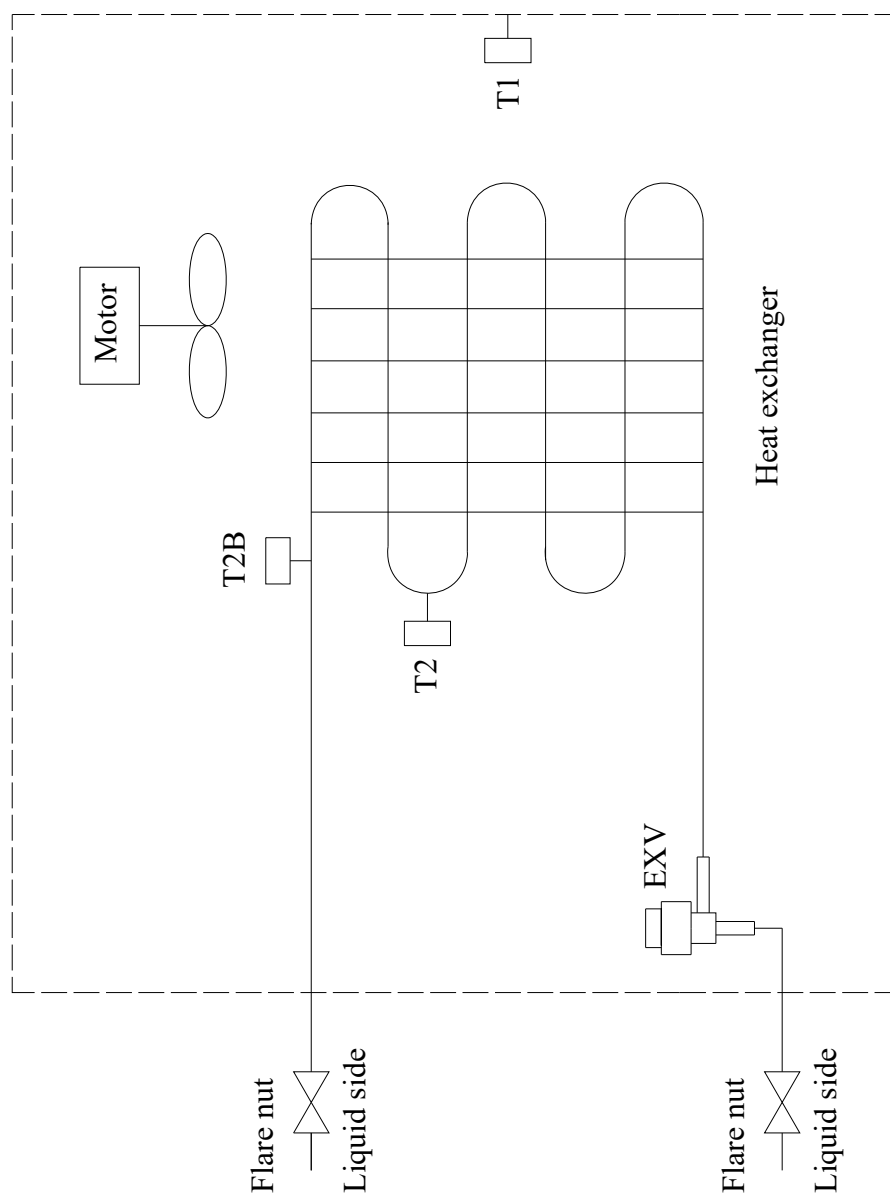


- Keep minimum 600*600 space for checking and maintenance:



5. Piping diagram

- CC-CPAH070-1S, CC-CPAH085-1S, CC-CPAH096-1S



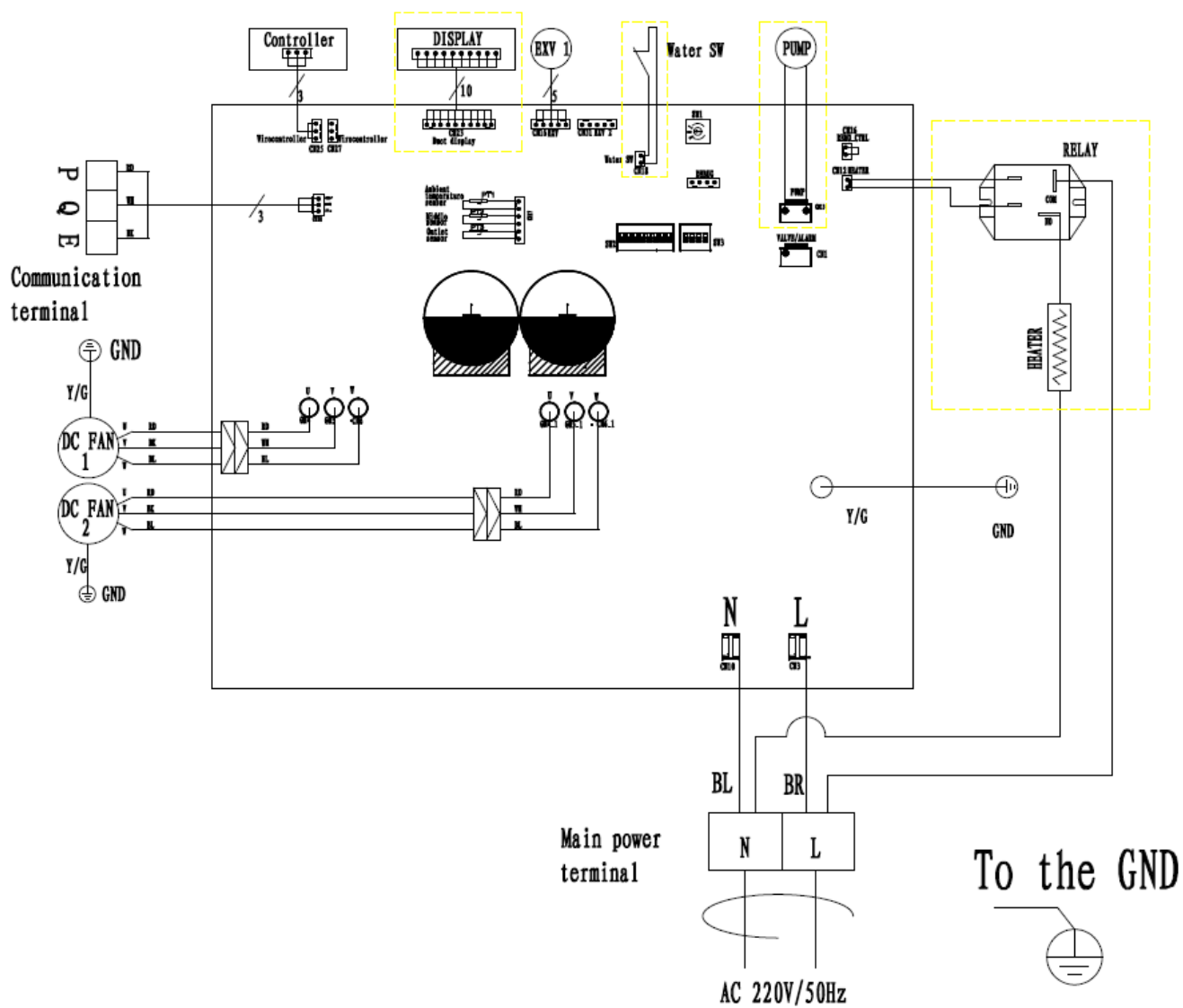
Notes:

- 1) T1: Room temperature sensor
- 2) T2: Temperature sensor of middle heat exchanger
- 3) T2B: Temperature sensor of heat exchanger outlet
- 4) EXV: Electrical expansion valve

6. Wiring diagram

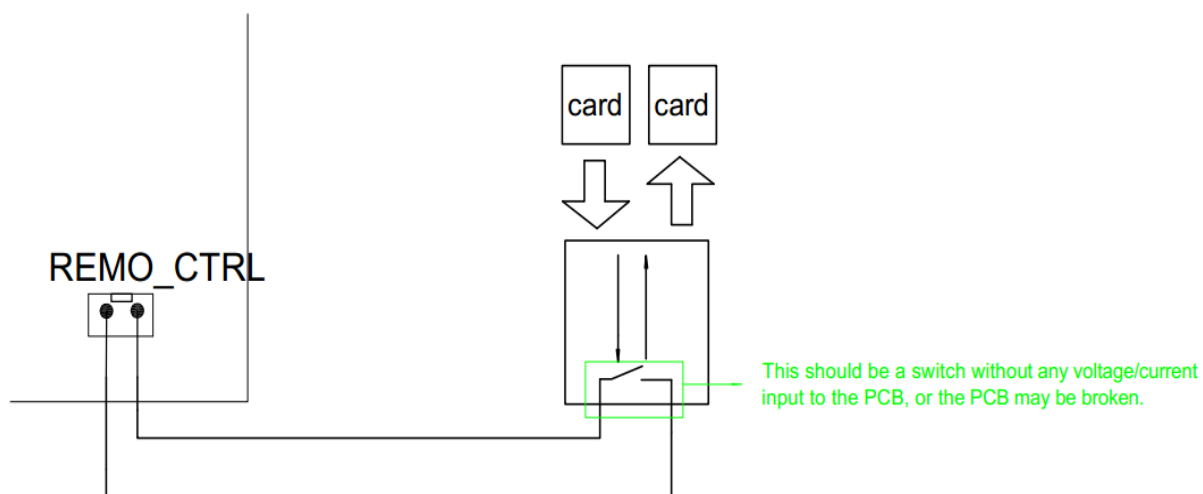
6.1 Wiring diagram

- CC-CPAH070-1S, CC-CPAH085-1S, CC-CPAH096-1S



VRF indoor unit connect with card key

Connect the remote control terminal on the indoor PCB to the hotel card module.



NOTE: The terminal in the hotel card module must be a switch without any voltage/current input to the PCB, otherwise the PCB will be broken.

6.2 Dial switches

6.2.1 SW1:Capacity switch.

Different number in the switch indicates different capacity. It is set in factory; leave it as default setting,



HP	8	9	10	16	20
Capacity (kW)	20/22.4	25/26	28/33.5	40/45	50/56
Code	0-B	C	D	E	F

6.2.2 SW3

Name	Switch number 1 of SW3		Switch number 2 of SW3	
Function	According to the contract custom power lost memory functions		Model selection	
Setting	SW3 NO.1 ON OFF 1 Power-down memory (Factory default) ON OFF 1 No power-down memory		SW3 NO.2 ON OFF 2 Ordinary machine (Factory default) ON OFF 2 Fresh air machine	

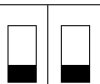
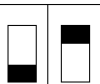
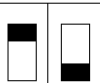
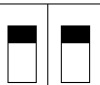
Name	Switch number 3 of SW3		Switch number 4 of SW3	
Function	Display choice		indoor unit address elimination	
Setting	SW3 NO.3 ON OFF 3 LED DISPLAY ON OFF 3 Digital tube DISPLAY		SW3 NO.4 ON OFF 4 Automatic Address-sing mode and (Factory default) ON OFF 4 Test mode (to allow clear address)	

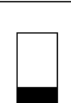
Name	Switch number 1&2 of SW2	
Function	Static pressure value select bits	
Setting	SW2 NO.1&2	Pressure selection
	ON  Factory default OFF 1 2	100Pa
	ON  OFF 1 2	150Pa
	ON  OFF 1 2	50Pa
	ON  OFF 1 2	Reserved

Name	Switch number 3 of SW2	
Function	Refrigeration temperature compensation temperature value select bits	
Setting	SW2 NO.3	Temperature selection
	ON  Factory default OFF 3	3°C
	ON  OFF 3	1°C

Name	Switch number 4 of SW2	
Function	Heating temperature compensation temperature value select bits	
Setting	SW2 NO.4	Temperature selection
	ON  OFF  Factory default	6°C
	ON  OFF 	2°C

Name	Switch number 5,6 of SW2	
Function	Anti-cold wind off the fan temperature selection bit	
Setting	SW2 NO.5&6	Temperature selection
	ON   OFF   Factory default	15°C
	ON   OFF  	20°C
	ON   OFF  	24°C
	ON   OFF  	26°C
Ordinary Type		

	SW2 NO.5&6		Temperature selection
	ON 	Factory default	10°C
	OFF 5 6		
	ON 		14°C
	OFF 5 6		
	ON 		18°C
	OFF 5 6		
	ON 		22°C
	OFF 5 6		
Fresh air type			

Name	Switch number 7 of SW2		
Function	Heating stop the fan time to choose		
Setting	SW2 NO.5	ON  OFF 5	4min Factory default
		ON  OFF 5	8min

Name	Switch number 7&8 of SW2								
Function	reserved								
Setting	ON	1 2 3 4 5 6 7 8							
	OFF								

7. Capacity tables

7.1 Cooling

TC: Total Capacity SC: Sensible Capacity WB: Wet-bulb Temperature DB: Dry-bulb Temperature

Capacity (kW)	Outdoor temperature (°C DB)	Indoor temperature (°C WB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
20	10	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.78	15.50	23.31	15.30	24.24	15.30
	12	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.78	15.50	23.31	15.30	24.02	15.00
	14	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.78	15.50	23.10	15.30	23.81	15.00
	16	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.78	15.50	22.89	15.30	23.60	14.50
	18	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.78	15.50	22.68	15.30	23.38	14.30
	19	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.78	15.50	22.48	15.30	23.17	13.80
	21	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.78	15.50	22.27	15.30	22.94	13.80
	23	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.78	15.50	22.06	14.80	22.73	13.80
	25	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.78	15.50	21.85	14.60	22.52	13.70
	27	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.57	15.50	21.64	14.60	22.30	13.70
	29	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.37	15.50	21.44	14.10	22.09	13.52
	31	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	21.17	15.50	21.23	14.10	21.87	13.50
	33	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	20.96	15.50	21.02	14.10	21.66	13.46
	35	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	20.66	15.30	20.81	13.30	21.44	13.40
	37	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	20.35	15.30	20.60	13.30	21.02	13.35
	39	13.85	12.60	16.35	13.60	18.85	14.40	20.00	14.60	20.20	14.60	20.40	13.30	20.80	13.29
	41	13.85	12.60	16.35	13.60	18.60	14.35	19.80	14.48	20.00	14.51	20.20	13.11	20.59	13.01
	43	13.85	12.60	16.35	13.60	18.40	14.30	19.60	14.39	19.80	14.36	20.00	12.94	20.37	12.78
	46	13.85	12.60	16.02	13.35	17.80	14.22	19.40	14.22	19.60	14.22	19.80	12.78	20.20	12.63
	48	13.85	12.60	15.86	13.26	17.20	13.98	18.80	13.89	19.40	14.02	19.20	12.40	19.60	12.25
	50	13.60	12.51	15.70	13.20	16.60	13.51	18.20	13.47	18.80	13.56	18.60	11.91	19.00	11.96
25	10	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	27.22	19.38	29.14	19.13	30.30	19.13
	12	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	27.22	19.38	29.14	19.13	30.03	18.75
	14	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	27.22	19.38	28.87	19.13	29.76	18.75
	16	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	27.22	19.38	28.61	19.13	29.49	18.13
	18	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	27.22	19.38	28.35	19.13	29.23	17.88
	19	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	27.22	19.38	28.10	19.13	28.96	17.25
	21	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	27.22	19.38	27.84	19.13	28.68	17.25
	23	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	27.22	19.38	27.57	18.50	28.41	17.25
	25	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	27.22	19.38	27.31	18.25	28.14	17.13
	27	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	26.96	19.38	27.05	18.25	27.88	17.13
	29	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	26.71	19.38	26.80	17.63	27.61	16.90
	31	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	26.46	19.38	26.54	17.63	27.34	16.88
	33	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	26.20	19.38	26.27	17.63	27.07	16.83
	35	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	25.82	19.13	26.01	16.63	26.81	16.75
	37	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	25.44	19.13	25.75	16.63	26.27	16.69
	39	17.31	15.75	20.44	17.00	23.56	18.00	25.00	18.25	25.25	18.25	25.50	16.63	26.00	16.61
	41	17.31	15.75	20.44	17.00	23.25	17.94	24.75	18.10	25.00	18.14	25.25	16.39	25.73	16.26
	43	17.31	15.75	20.44	17.00	23.00	17.88	24.50	17.99	24.75	17.95	25.00	16.18	25.47	15.98
	46	17.31	15.75	20.03	16.69	22.25	17.78	24.25	17.78	24.50	17.78	24.75	15.98	25.25	15.79
	48	17.31	15.75	19.82	16.58	21.50	17.48	23.50	17.36	24.25	17.53	24.00	15.50	24.50	15.31
	50	17.00	15.64	19.62	16.50	20.75	16.89	22.75	16.84	23.50	16.95	23.25	14.89	23.75	14.95
28	10	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	30.49	21.70	32.63	21.42	33.93	21.42
	12	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	30.49	21.70	32.63	21.42	33.63	21.00
	14	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	30.49	21.70	32.33	21.42	33.33	21.00
	16	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	30.49	21.70	32.04	21.42	33.03	20.30
	18	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	30.49	21.70	31.76	21.42	32.73	20.02
	19	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	30.49	21.70	31.47	21.42	32.43	19.32
	21	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	30.49	21.70	31.18	21.42	32.12	19.32
	23	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	30.49	21.70	30.88	20.72	31.82	19.32
	25	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	30.49	21.70	30.59	20.44	31.52	19.18
	27	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	30.20	21.70	30.30	20.44	31.22	19.18
	29	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	29.91	21.70	30.01	19.74	30.92	18.93
	31	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	29.63	21.70	29.72	19.74	30.62	18.90
	33	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	29.34	21.70	29.42	19.74	30.32	18.84
	35	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	28.92	21.42	29.13	18.62	30.02	18.76
	37	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	28.49	21.42	28.84	18.62	29.42	18.69
	39	19.39	17.64	22.89	19.04	26.39	20.16	28.00	20.44	28.28	20.44	28.56	18.62	29.12	18.61
	41	19.39	17.64	22.89	19.04	26.04	20.09	27.72	20.27	28.00	20.31	28.28	18.35	28.82	18.21
	43	19.39	17.64	22.89	19.04	25.76	20.02	27.44	20.15	27.72	20.10	28.00	18.12	28.52	17.89
	46	19.39	17.64	22.43	18.69	24.92	19.91	27.16	19.91	27.44	19.91	27.72	17.89	28.28	17.68
	48	19.39	17.64	22.20	18.56	24.08	19.57	26.32	19.45	27.16	19.63	26.88	17.36	27.44	17.15
	50	19.04	17.51	21.98	18.48	23.24	18.91	25.48	18.86	26.32	18.98	26.04	16.67	26.60	16.74

7.2 Heating

TC: Total Capacity WB: Wet-bulb Temperature DB: Dry-bulb Temperature

Capacity (kW)	Outdoor temperature (°C)		Indoor temperature (°C DB)					
			16	18	20	21	22	24
			TC	TC	TC	TC	TC	TC
	WB	DB	kW	kW	kW	kW	kW	kW
20	-20	-19.8	12.60	12.60	12.60	12.60	12.60	12.60
	-19	-18.8	13.50	13.50	13.50	13.50	13.50	13.50
	-17	-16.7	14.20	14.20	14.20	14.20	14.20	14.20
	-15	-14.7	14.60	14.60	14.60	14.60	14.60	14.60
	-13	-12.6	15.50	15.50	15.50	15.50	15.50	15.50
	-11	-10.5	15.80	16.00	16.00	16.00	16.00	16.00
	-10	-9.5	16.40	16.40	16.40	16.40	16.40	16.40
	-9.1	-8.5	16.90	16.90	16.90	16.90	16.90	16.90
	-7.6	-7	17.10	17.10	17.10	17.10	17.10	17.10
	-5.6	-5	17.80	17.80	17.80	17.80	17.80	17.80
	-3.7	-3	18.70	18.70	18.70	18.70	18.70	18.70
	-0.7	0	20.00	20.00	20.00	20.00	20.00	18.90
	2.2	3	21.20	21.20	21.20	21.20	20.70	18.90
	4.1	5	21.80	21.80	21.80	21.80	20.70	18.90
	6	7	22.50	22.50	22.00	21.80	20.70	18.90
	7.9	9	23.20	23.20	22.00	21.80	20.70	18.90
	9.8	11	23.90	23.90	22.00	21.80	20.70	18.90
	11.8	13	24.80	24.30	22.00	21.80	20.70	18.90
	13.7	15	25.40	24.30	22.00	21.80	20.70	18.90
25	-20	-19.8	14.56	14.56	14.56	14.56	14.56	14.56
	-19	-18.8	15.60	15.60	15.60	15.60	15.60	15.60
	-17	-16.7	16.38	16.38	16.38	16.38	16.38	16.38
	-15	-14.7	16.90	16.90	16.90	16.90	16.90	16.90
	-13	-12.6	17.94	17.94	17.94	17.94	17.94	17.94
	-11	-10.5	18.20	18.46	18.46	18.46	18.46	18.46
	-10	-9.5	18.98	18.98	18.98	18.98	18.98	18.98
	-9.1	-8.5	19.50	19.50	19.50	19.50	19.50	19.50
	-7.6	-7	19.76	19.76	19.76	19.76	19.76	19.76
	-5.6	-5	20.54	20.54	20.54	20.54	20.54	20.54
	-3.7	-3	21.58	21.58	21.58	21.58	21.58	21.58
	-0.7	0	23.14	23.14	23.14	23.14	23.14	21.84
	2.2	3	24.44	24.44	24.44	24.44	23.92	21.84
	4.1	5	25.22	25.22	25.22	25.22	23.92	21.84
	6	7	27.50	27.50	27.50	25.22	23.92	21.84
	7.9	9	27.78	27.78	27.50	25.22	23.92	21.84
	9.8	11	28.56	28.56	27.50	25.22	23.92	21.84
	11.8	13	29.08	28.90	27.50	25.22	23.92	21.84
	13.7	15	29.38	29.08	27.50	25.22	23.92	21.84
28	-20	-19.8	17.60	17.60	17.60	17.60	17.60	17.60
	-19	-18.8	18.90	18.90	18.90	18.90	18.90	18.90
	-17	-16.7	19.80	19.80	19.80	19.80	19.80	19.80
	-15	-14.7	20.50	20.50	20.50	20.50	20.50	20.50
	-13	-12.6	21.70	21.70	21.70	21.70	21.70	21.70
	-11	-10.5	22.10	22.40	22.40	22.40	22.40	22.40
	-10	-9.5	23.00	23.00	23.00	23.00	23.00	23.00
	-9.1	-8.5	23.60	23.60	23.60	23.60	23.60	23.60
	-7.6	-7	23.90	23.90	23.90	23.90	23.90	23.90
	-5.6	-5	24.90	24.90	24.90	24.90	24.90	24.90
	-3.7	-3	26.10	26.10	26.10	26.10	26.10	26.10
	-0.7	0	28.00	28.00	28.00	28.00	28.00	26.50
	2.2	3	29.60	29.60	29.60	29.60	29.00	26.50
	4.1	5	30.20	30.20	30.20	30.20	29.00	26.50
	6	7	30.80	30.80	30.80	30.20	29.00	26.50
	7.9	9	31.40	31.40	30.80	30.20	29.00	26.50
	9.8	11	32.40	32.40	30.80	30.20	29.00	26.50
	11.8	13	33.70	33.00	30.80	30.20	29.00	26.50
	13.7	15	34.60	33.00	30.80	30.20	29.00	26.50

8. Electrical characteristics

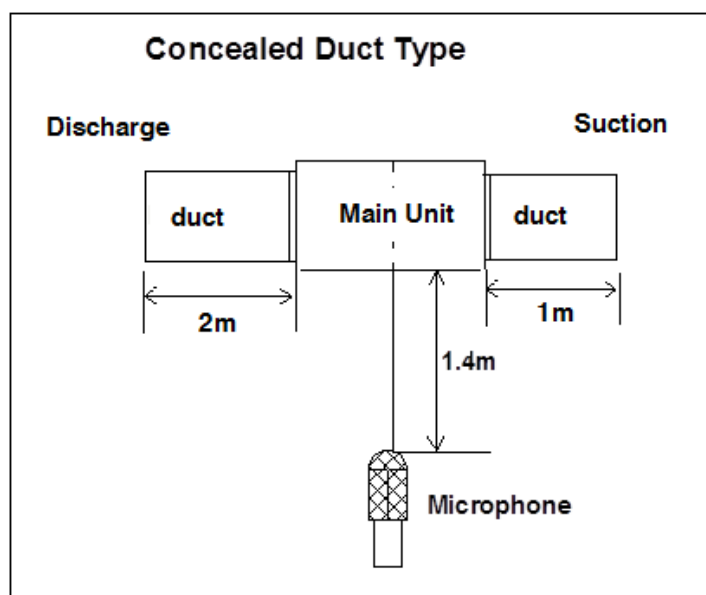
Model	Indoor unit				MFC	Power cable			Signal cable
	Hz	Voltage	Minimum	Maximum		L ≤ 20m	L ≤ 50m	Grounded	
CC-CPAH070-1S	50Hz	220-240V	198	264	15	2*2.5mm ²	2*4.0mm ²	4.0mm ²	2*0.75 mm ²
CC-CPAH085-1S	50Hz	220-240V	198	264	15	2*2.5mm ²	2*4.0mm ²	4.0mm ²	2*0.75 mm ²
CC-CPAH096-1S	50Hz	220-240V	198	264	15	2*2.5mm ²	2*4.0mm ²	4.0mm ²	2*0.75 mm ²

Notes:

- 1) Minimum: Permitted minimum operating voltage, lower than this value may damage the system
- 2) Maximum: Permitted maximum operating voltage, higher than this value may damage the system
- 3) MC: Minimum Current (A)
- 4) MFC: Maximum Fuse Current (A)
- 5) Output: Fan motor rated powerOutput (W)
- 6) FLC: Full Load Current (A)

9. Sound pressure levels

9.1 Test condition



Notes:

Semi-anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.4m

9.2 Test data (Sound pressure level)

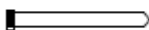
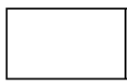
Model	Sound pressure level (dB(A))		
	High speed	Medium speed	Low speed
CC-CPAH070-1S	50	48	45
CC-CPAH085-1S	51	49	46
CC-CPAH096-1S	52	50	48

Notes:

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

10. Accessories

10.1 Standard accessories.

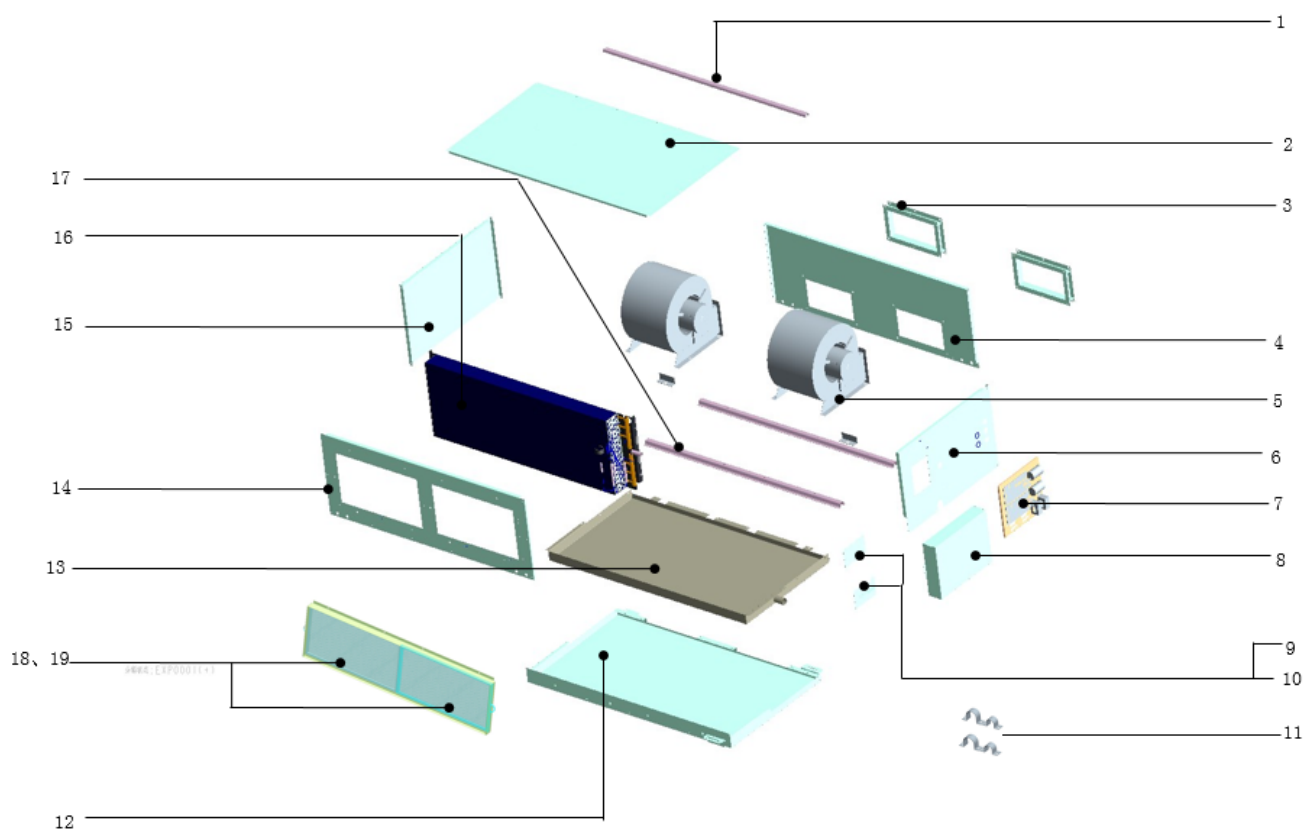
Name of accessories	Numbers	Shape	Application
Installation instruction for indoor unit	1	The manual	(Please be sure to hand it to user.)
Insulating tube	2		To encase single joints of high and low pressure pipes.
Ribbon	6		Bind up cables and connecting pipes.
Dome insulated tip	6		Used to connect wires
X-type insulated tip	3		Used to connect wires
Wire controller	1		Control A/C
Connecting pipe of electronic expansion valve	1		Connect electronic expansion valve and liquid side of indoor unit (Different models may have different sizes and calibers. Please install according to the real products.)
Connection wire for wire controller	1		The wire that connect the wire controller and PCB
Blank valve bag	3		Used to contain accessories.

10.2 Parts purchased locally

Cooper pipe	Type	2. 2kW~2. 8kW	3. 2kW~5. 6kW	6. 3kW~8. 0kW	9. 0kW~16. 0kW	20. 0kW~28. 0kW	45. 0kW~56. 0kW
	Liquid pipe (mm)	φ 6. 35 × 0. 8		φ 9. 52 × 0. 8		φ 12. 7 × 0. 8	φ 15. 88 × 1. 0
	Gas pipe (mm)	φ 9. 52 × 0. 8	φ 12. 7 × 0. 8	φ 15. 88 × 1. 0		φ 22. 2 × 1. 0	φ 28. 6 × 1. 2
PVC drainpipe	For the indoor unit drainpipe. The length is decided according to the actual need.						
Insulation bushing	Assort inner diameter respectively with relevant copper pipe and hard polyethylene plastic pipe. The thickness is usually 10 mm (above). It should be appropriately thickened in closed and wet areas.						

11. Exploded view

CC-CPAH070-1S,CC-CPAH085-1S,CC-CPAH096-1S



No.	Part name	Quantity	No.	Part name	Quantity
1	Reinforcing plate	1	10	Lid	1
2	Top cover plate attached to the cotton component	1	11	Pipe clamps	1
2.1	Top cover plate	1	11.1	Pipe clamps1	1
3	Flange affixed cotton parts	2	12	Chassis paste cotton parts	1
3.1	Flange welded components	2	13	The water tray Sticker cotton parts	1
3.1.1	Air out board	1	14	Air return panel assy	1
4	Motor bracket assembly	1	14.1	Air return panel	1
4.1	Indoor motor	2	15	Right panel affixed cotton parts	1
4.2	The fan assembly	2	15.1	Right side board	1
5	Motor bracket assembly	1	16	Evaporator parts	1
5.1	Indoor motor	2	16.1	Evaporator assy	1
5.2	The fan assembly	2	16.2	High-pressure hose assemblies	1
6	Left panel affixed cotton parts	1	16.3	Low-pressure pipe assembly	1
6.1	Left side board	1	17	Motor bracket assembly	2
7	Electronic control components	1	18	Return air component	1
8	E- parts box cover	1	19	Filter assembly	2
9	Lid welded assemblies	1			