

VEFA Series Fresh Air Processing VRF Indoor Unit

Technical Manual

220-240V/1/50Hz & 380-415V/1/50Hz



CONTENTS

- 1. External Appearance
- 2. Specifications
- 3. Dimensions
- 4. Service space
- 5. Piping diagram
- 6. Wiring diagram
- 7. Capacity tables
- 8. Electric characteristics
- 9. Sound pressure levels
- 10. Accessories
- 11. Exploded view

1. External appearance

- VEFA048Q3A-GCV140



- VEFA076Q3A-GCV224, VEFA096Q3A-GCV280



- VEFA150Q7A-GCV450, VEFA190Q7A-GCV560



Notes: Full Fresh Air Processor can't be connected with other indoor unit type together in one refrigerant system, and match ratio between indoor and outdoor unit should be 50%~100%.

2. Specifications

Model			VEFA048Q3A-GCV140	VEFA076Q3A-GCV224	VEFA096Q3A-GCV280
Power supply			220-240V/1PH/50Hz	220-240V/1PH/50Hz	220-240V/1PH/50Hz
Capacity	Cooling	kW	14	22.4	28
	Heating	kW	9	16	20
Power Input		kW	0.45	1.2	1.2
Fan motor	Model		YSK139-300F-4P3H95	YDK-300F-4P3 *2	YDK-300F-4P3 *2
	Type		AC	AC	AC
	Brand		Kangbao	Yongan	Yongan
	Input	W	300	300 *2	300 *2
	Capacitor	μF	15	15 *2	15 *2
	Speed	r/min	1050/830/720	820	920/820
	ESP	Pa	220	220	220
Indoor coil	Number of rows		3	4	4
	Fin type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube diameter and type	mm	Ø7.94, Innergroove tube	Ø9.52, Innergroove tube	Ø9.52, Innergroove tube
Air flow		m ³ /h	1400	2000	2800
Sound power level		dB(A)	48/45/42	48	52/45
Body	Dimension (W×H×D)	mm	1190×370×620	1465×448×811	1465×448×811
	Packing (W×H×D)	mm	1245×445×655	1510×490×870	1510×490×870
	Net/Gross weight	kg	47/51	102/106	102/106
Refrigerant type			R410A	R410A	R410A
Throttle type			EXV	EXV	EXV
Design pressure		MPa	3.8	3.8	3.8
Liquid pipe / Gas pipe		mm	Ø9.53/ Ø15.9	Ø12.7/ Ø22.2	Ø12.7/ Ø22.2
Connecting wire	Power wire	AWG	11	9	9
	Signal wire	AWG	18	18	18
Drainage water pipe (Outer diameter)		mm	Ø25	Ø30	Ø30
Controller	Standard		Wired controller	Remote controller	Remote controller
	Optional		Remote controller	Wired controller	Wired controller
Operation temp		°C	16~32	16~32	16~32

Notes:

- Nominal cooling capacities are based on the following conditions.
 - Outdoor temperature: 33°C DB, 28°C WB
 - Equivalent piping length: 8m in horizontal
- Nominal heating capacities are based on the following condition.
 - Outdoor temperature: 0°C DB, -2.9°C WB
 - 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 1.5 m.
- The above data may be changed without notice for future improvement on quality and performance.
- Full Fresh Air Processor can't be connected with other indoor unit type together in one refrigerant system, and match ratio between indoor and outdoor unit should be 50%~100%.

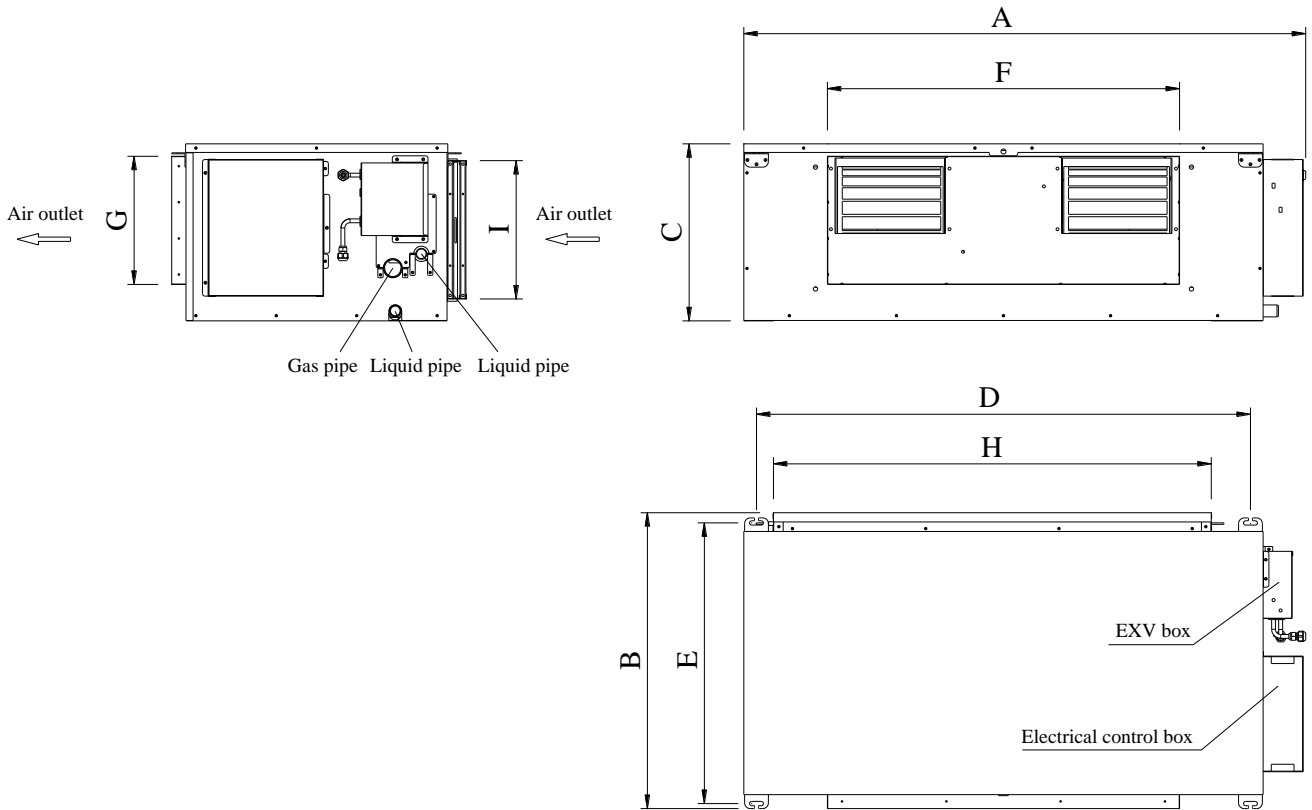
Model			VEFA150Q7A-GCV450	VEFA190Q7A-GCV560
Power supply			380-415V/3PH/50HZ	380-415V/3PH/50HZ
Capacity	Cooling	kW	45	56
	Heating	kW	31.4	39
Power Input		kW	1.3	2
Fan motor	Model		YX3-100L1-4-B3	YX3-100L1-4-B3
	Type		AC	AC
	Brand		Wannan	Wannan
	Input	W	2200	2200
	Capacitor	μF	/	/
	Speed	r/min	1430	1430
	ESP	Pa	300	300
Indoor coil	Number of rows		3	3
	Fin type		Hydrophilic aluminum	Hydrophilic aluminum
	Tube diameter and type	mm	Ø7.94, Innergroove tube	Ø9.52, Innergroove tube
Air flow		m ³ /h	4000	6000
Sound power level		dB(A)	58	62
Body	Dimension (W×H×D)	mm	2165×916×676	2165×916×676
	Packing (W×H×D)	mm	2267×1050×840	2267×1050×840
	Net/Gross weight	kg	222/260	222/260
Refrigerant type			R410A	R410A
Throttle type			EXV	EXV
Design pressure		MPa	4.5	4.5
Liquid pipe / Gas pipe		mm	Ø15.88/Ø28.6	Ø15.88/Ø28.6
Connecting wire	Power wire	AWG	16	16
	Signal wire	AWG	22	22
Drainage water pipe (Outer diameter)		mm	Ø25	Ø25
Controller	Standard		Wired controller	Remote controller
	Optional		Remote controller	Wired controller
Operation temp		°C	16~32	16~32

Notes:

- 6) Nominal cooling capacities are based on the following conditions.
 - Outdoor temperature: 33°C DB, 28°C WB
 - Equivalent piping length: 8m in horizontal
- 7) Nominal heating capacities are based on the following condition.
 - Outdoor temperature: 0°C DB, -2.9°C WB
 - Equivalent piping length: 8m in horizontal
- 8) Sound pressure level: Semi-anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
- 9) The above data may be changed without notice for future improvement on quality and performance.
- 10) Full Fresh Air Processor can't be connected with other indoor unit type together in one refrigerant system, and match ratio between indoor and outdoor unit should be 50%~100%.

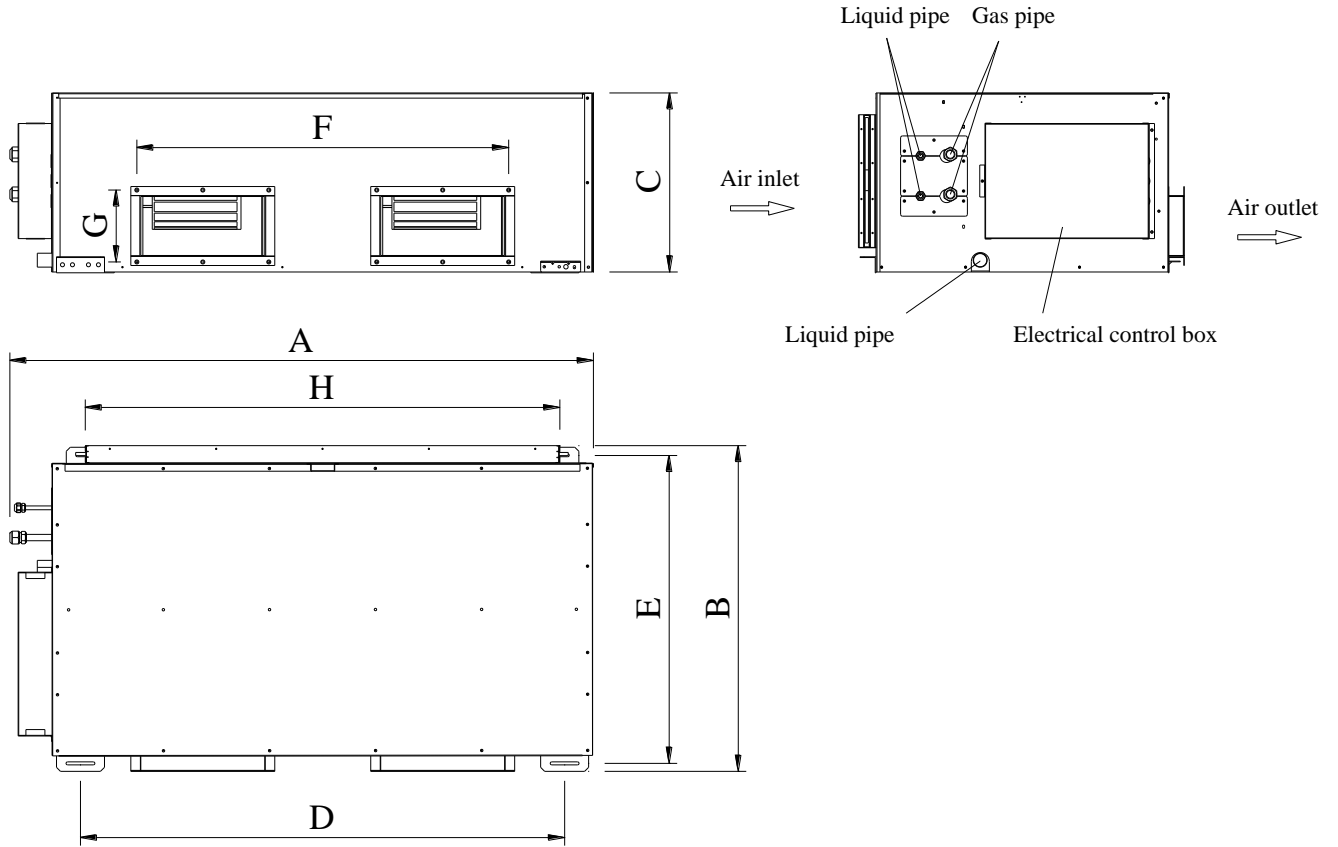
3. Dimensions

- VEFA048Q3A-GCV140



Mode	Body dimension(mm)			Installation dimension (mm)		Air outlet dimension (mm)		Air return dimension (mm)	
	A	B	C	D	E	F	G	H	I
VEFA048Q3A-GCV140	1190	620	370	1038	588	740	267	920	290

- VEFA076Q3A-GCV224, VEFA096Q3A-GCV280



Mode	Body dimension(mm)			Installation dimension (mm)		Air outlet dimension (mm)		Air return dimension (mm)	
	A	B	C	D	E	F	G	H	I
VEFA076Q3A-GCV224	1465	811	448	1162	771	930	180	1174	272
VEFA096Q3A-GCV280	1465	811	448	1162	771	930	180	1174	272

- VEFA150Q7A-GCV450, VEFA190Q7A-GCV560

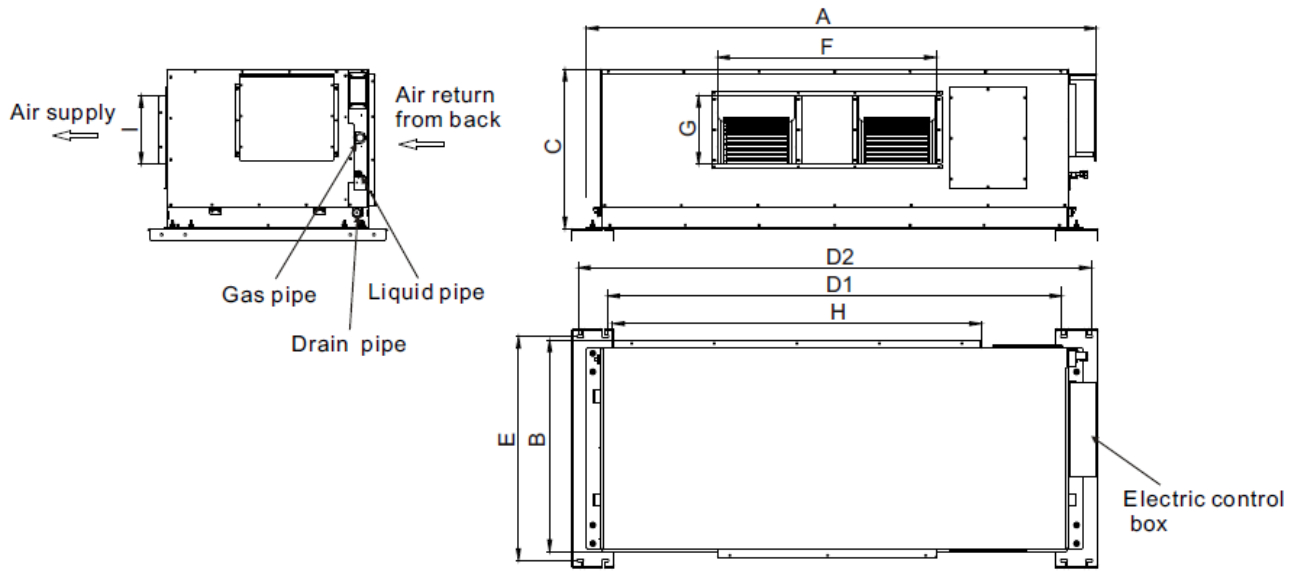
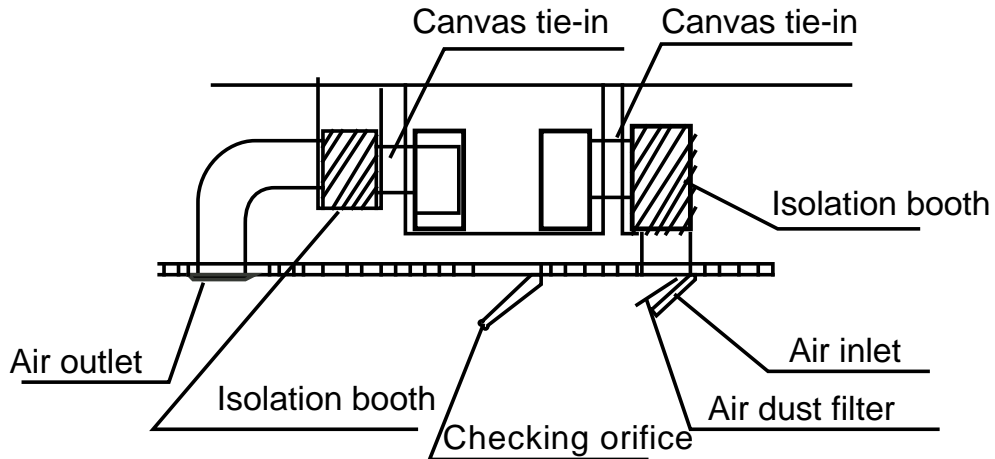


Table 3.10 Unit: mm

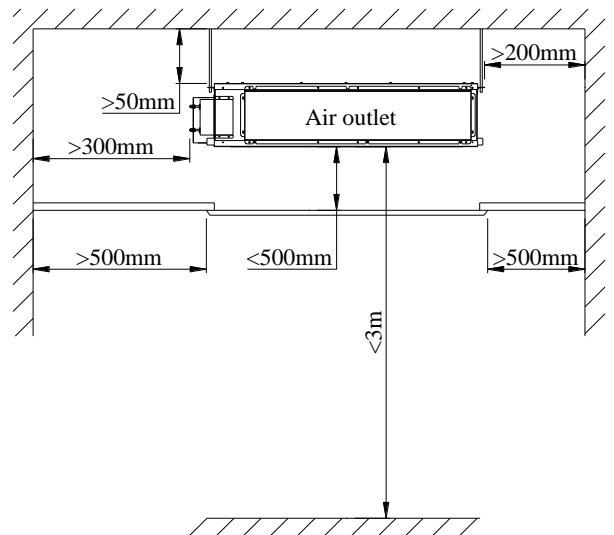
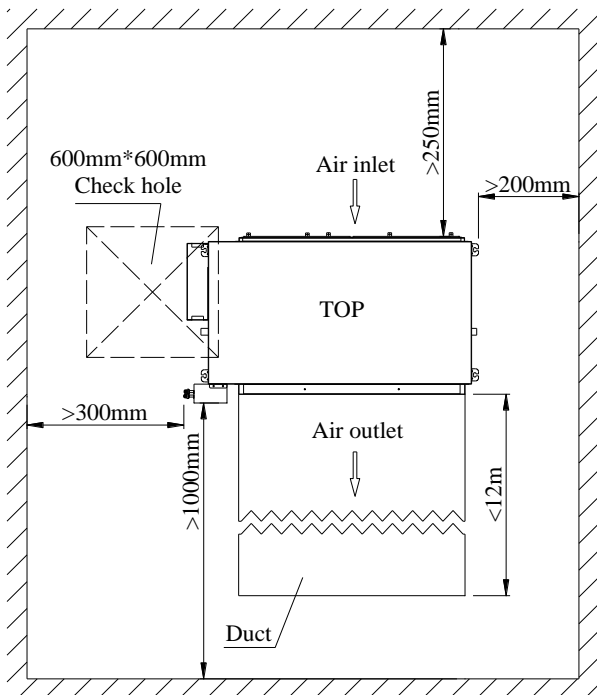
Model of indoor unit	Size code	Body size			Installing size			Air outlet size		Air return size	
		A	B	C	D1	D2	E	F	G	H	I
	45.0~56.0kW	2165	916	676	1926	2176	950	928	292	1563	563

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.
- Full Fresh Air Processor can't be connected with other indoor unit type together in one refrigerant system, and match ratio between indoor and outdoor unit should be 50%~100%.
- Below is the recommended duct installation method:

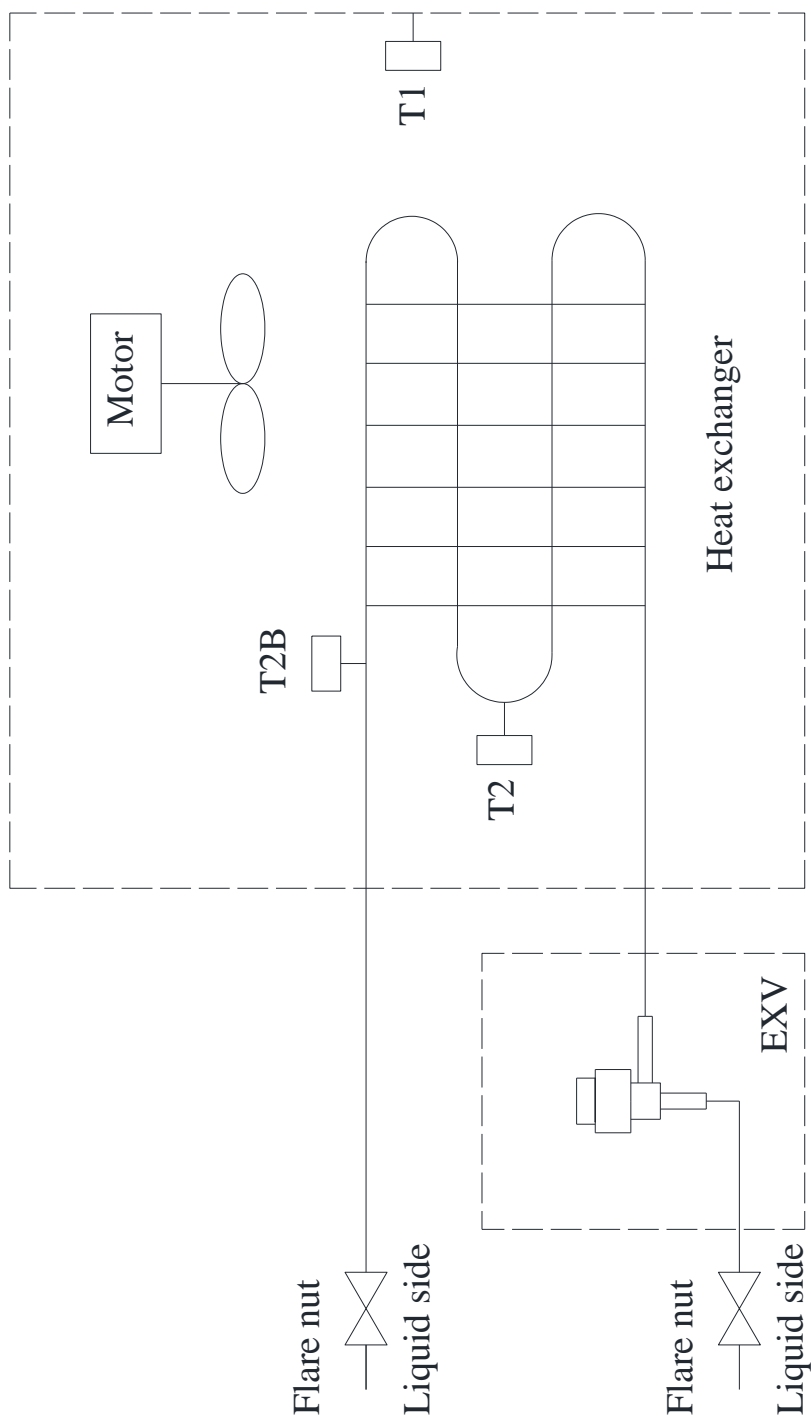


- Keep minimum 600*600 space for checking and maintenance:



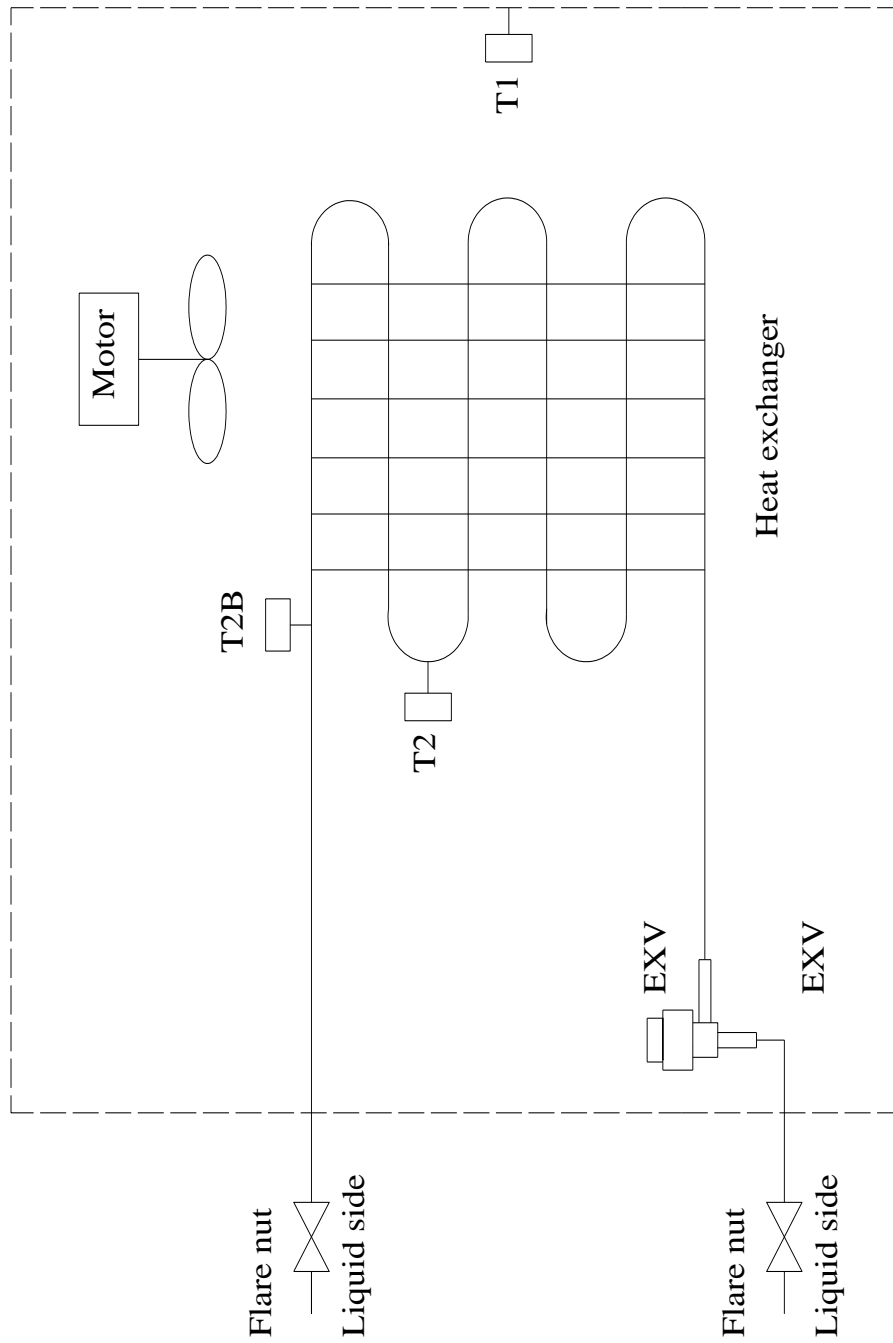
5. Piping diagram

VEFA048Q3A-GCV140



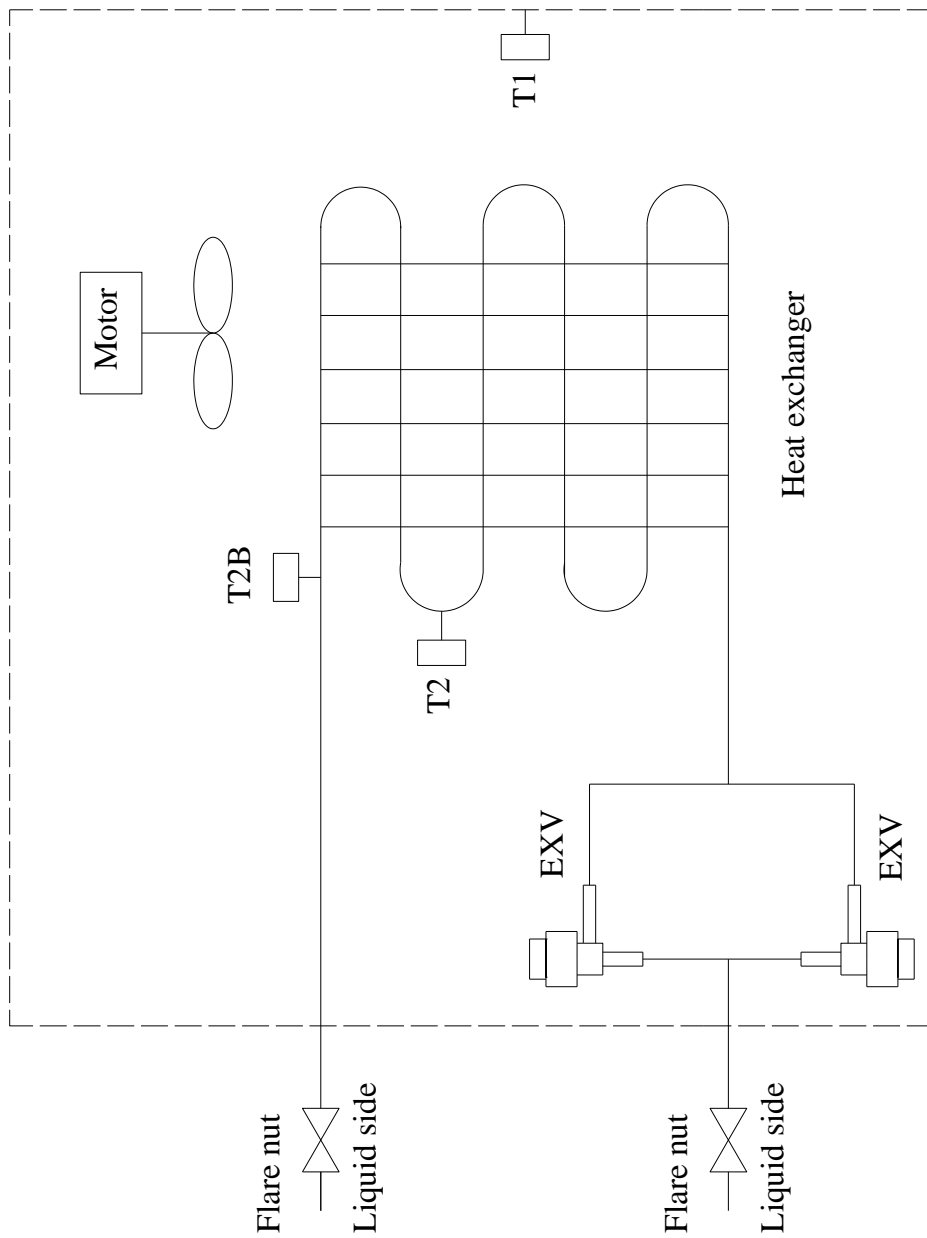
Notes:

- 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



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



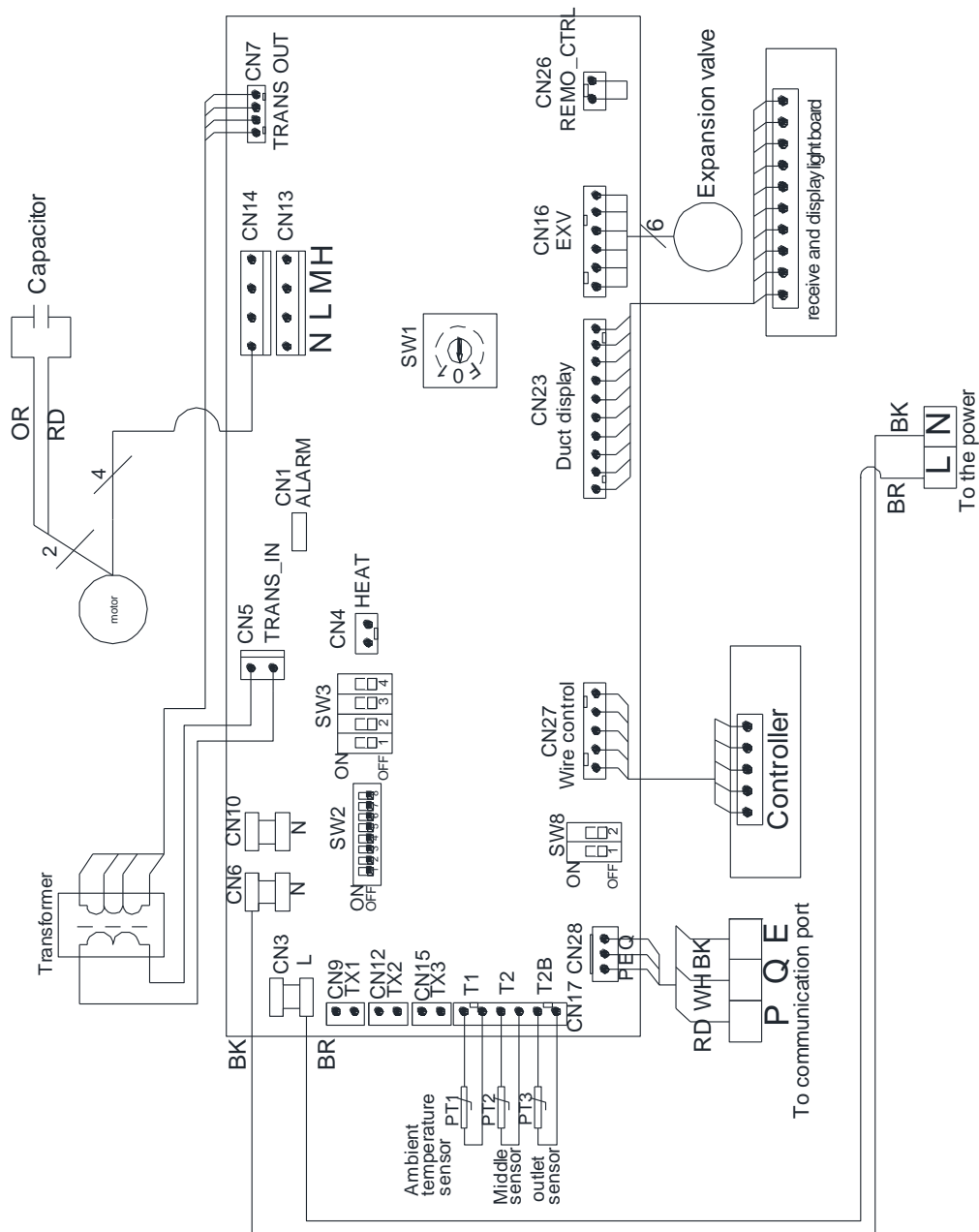
Notes:

- 5) T1: Room temperature sensor
- 6) T2: Temperature sensor of middle heat exchanger
- 7) T2B: Temperature sensor of heat exchanger outlet
- 8) EXV: Electrical expansion valve

6. Wiring diagram

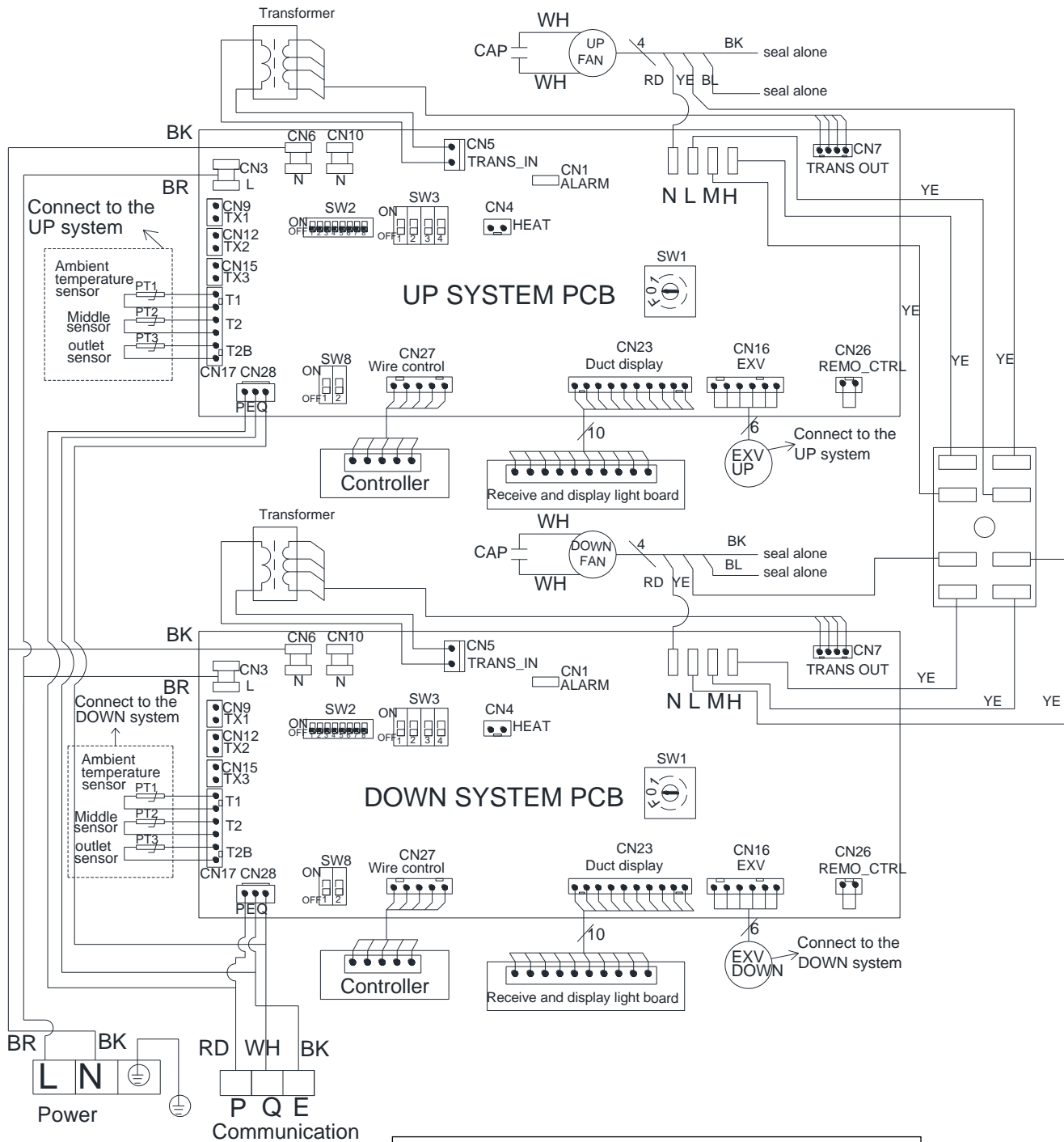
7.1 Wiring diagram

- VEFA048Q3A-GCV140



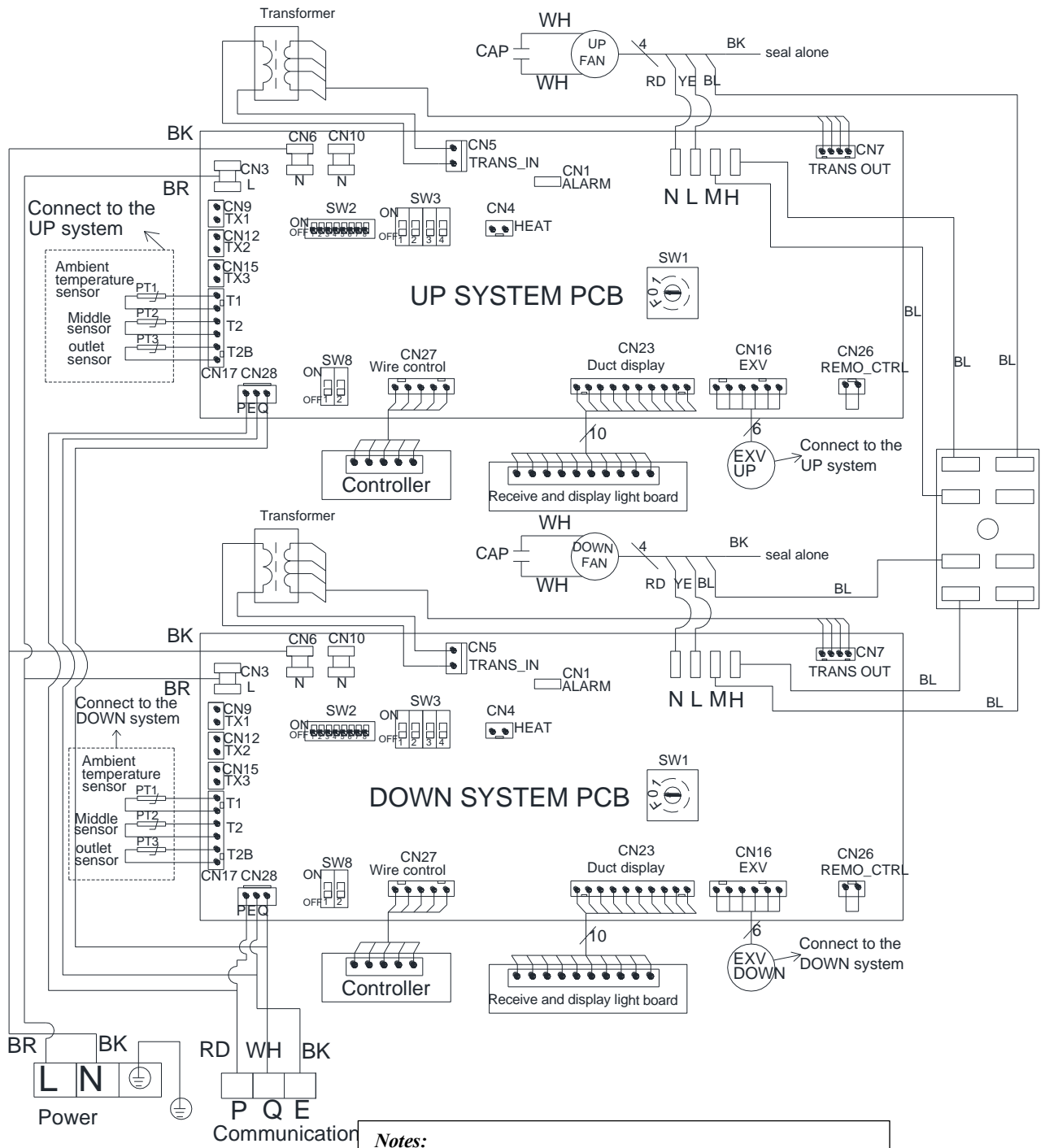
Notes:

- 1) Color code:
RD: Red; OR: Orange; BK: Black.; BR: Brown; WH: White
- 2) T1: Room temperature sensor
- 3) T2: Temperature sensor of middle heat exchanger
- 4) T2B: Temperature sensor of heat exchanger outlet
- 5) EXV: Electrical expansion valve
- 6) Electrical heater is optional, please contact to Chigo's technician for the detail.



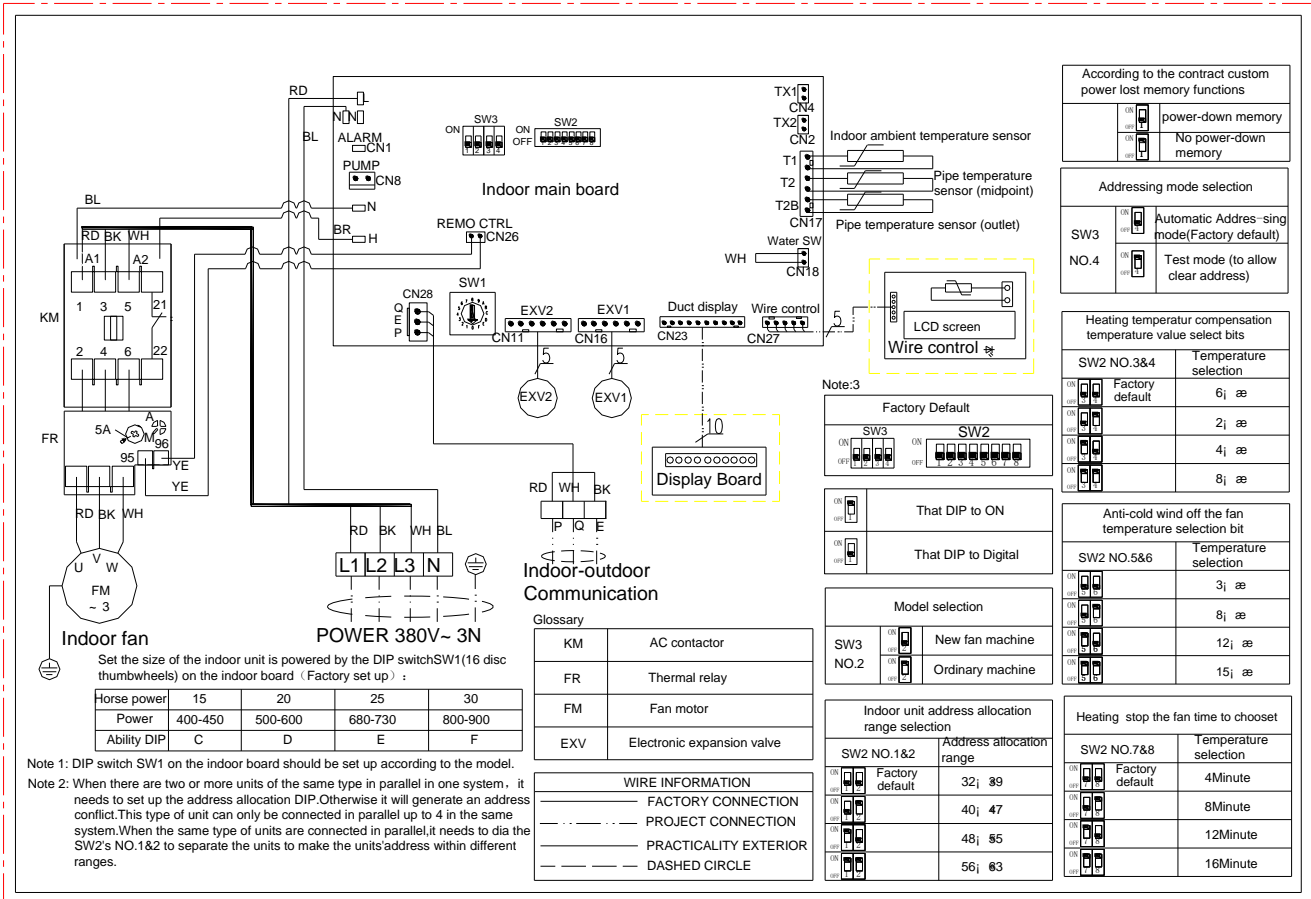
Notes:

- 1) Color code:
RD: Red; OR: Orange; BK: Black.; BR: Brown; WH: White
- 2) T1: Room temperature sensor
- 3) T2: Temperature sensor of middle heat exchanger
- 4) T2B: Temperature sensor of heat exchanger outlet
- 5) EXV: Electrical expansion valve
- 6) Electrical heater is optional, please contact to Chigo's technician for the detail.



Notes:

- 7) Color code:
RD: Red; OR: Orange; BK: Black;; BR: Brown; WH: White
- 8) T1: Room temperature sensor
- 9) T2: Temperature sensor of middle heat exchanger
- 10) T2B: Temperature sensor of heat exchanger outlet
- 11) EXV: Electrical expansion valve
- 12) Electrical heater is optional, please contact to Chigo's technician for the detail.



Notes:

13) Color code:

RD: Red; OR: Orange; BK: Black.; BR: Brown; WH: White

14) T1: Room temperature sensor

15) T2: Temperature sensor of middle heat exchanger

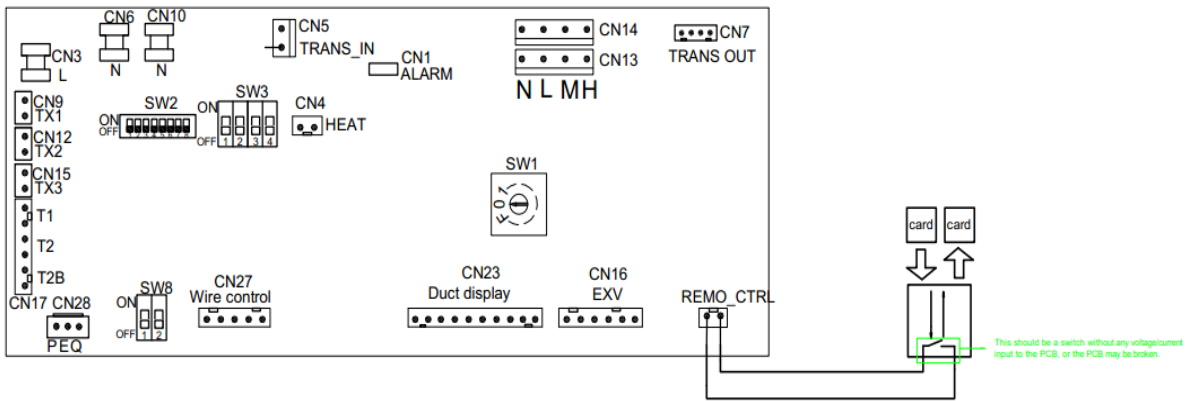
16) T2B: Temperature sensor of heat exchanger outlet

17) EXV: Electrical expansion valve

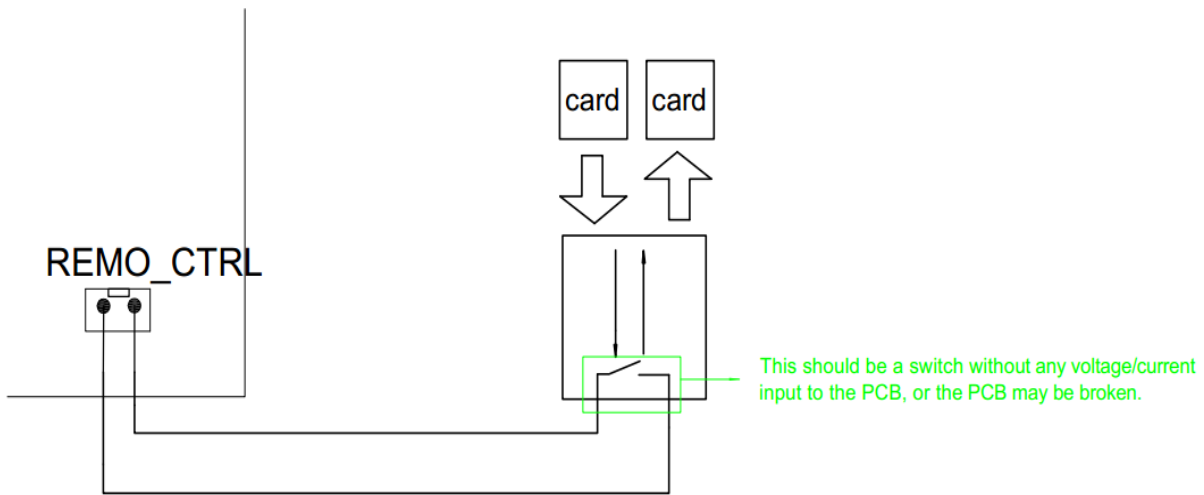
18) Electrical heater is optional, please contact to

Chigo's technician for the detail.

Omega VRF indoor unit connect with card key



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

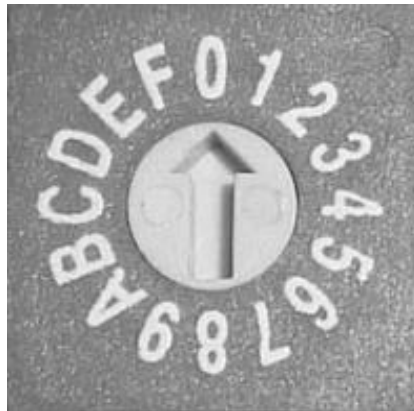


NOTE: The terminal in the hotel card module must be a switch without any voltage/current input to the PCB, otherwise the PCB will be broken.

7.2 Dial switches

7.2.1 SW1: Capacity switch.

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



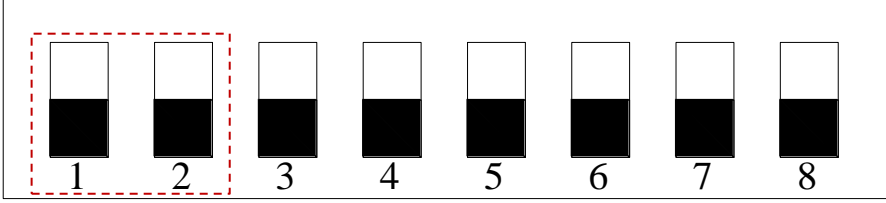
HP	0.8	1	1.2	1.7	2	2.5
Capacity (kW)	1.8/2.2	2.5/2.6/2.8	3.2/3.5/3.6	4.1/4.5/4.6	5.1/5.6	6.0/6.6/7.1
Code	0	1	2	3	4	5

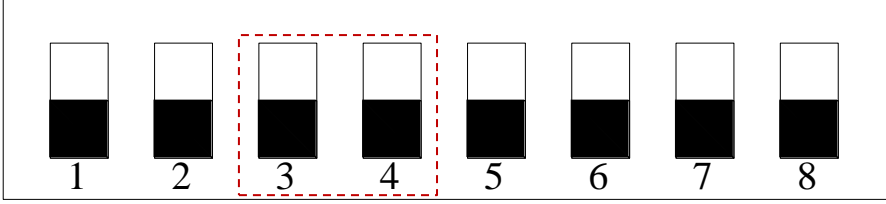
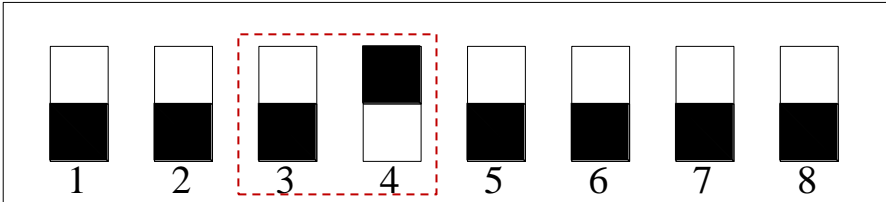
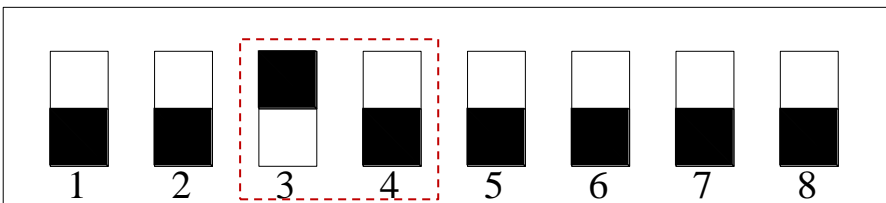
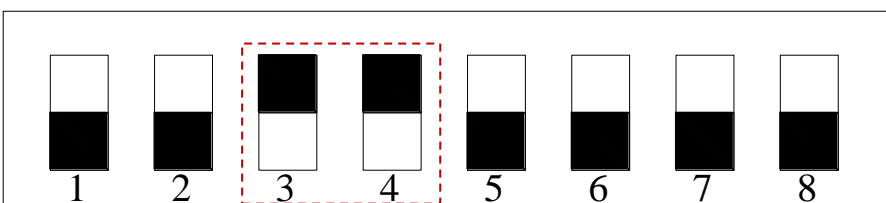
HP	3	3.2	4	5	6
Capacity (kW)	8.0	8.8/9.0	10.0/11.0/11.2	12.0/12.5/14.0	15.0/16.0
Code	6	7	8	9	9

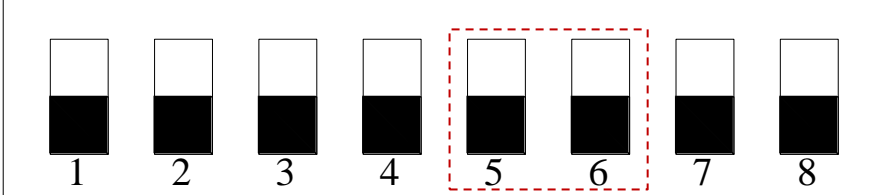
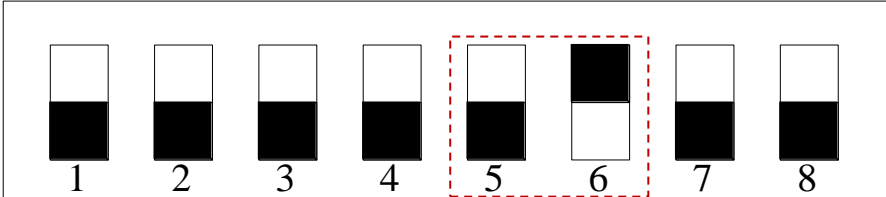
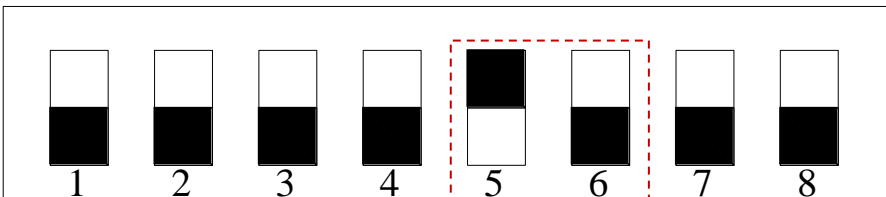
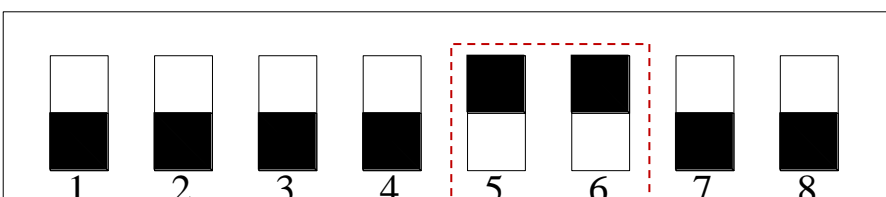
7.2.2 SW3

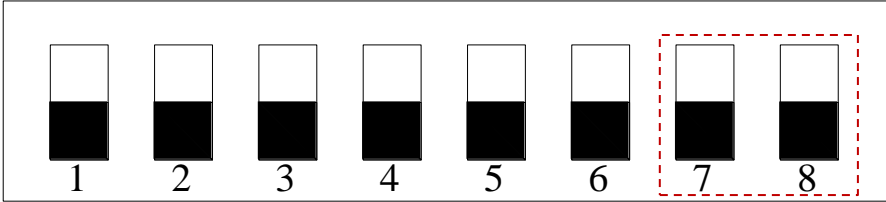
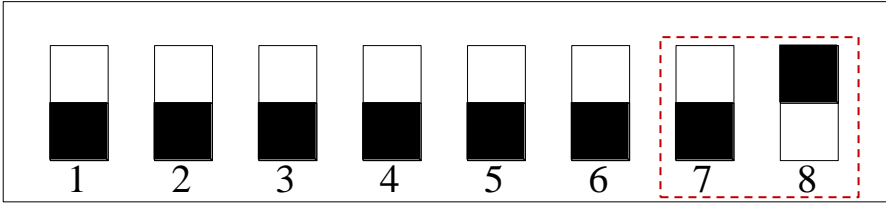
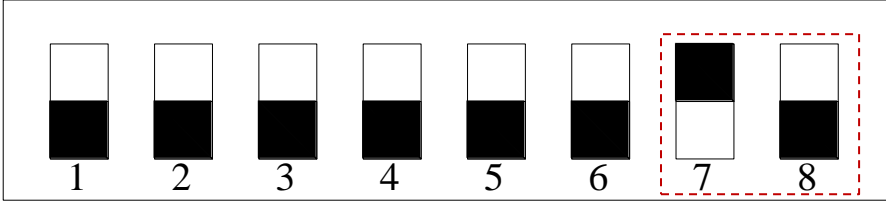
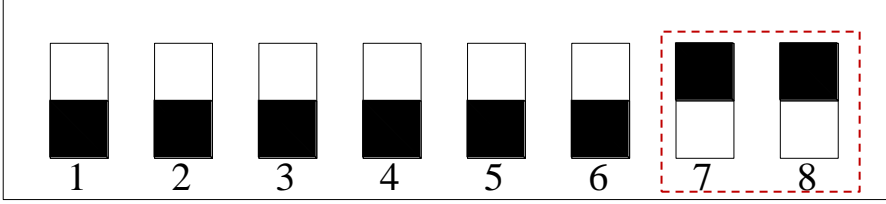
Name	Switch number 1 of SW3	Switch number 4 of SW3	Switch number 2,3 of SW3
Function	Auto-restart when power failure switch. ON/OFF status, operation mode, fan speed, temperature, swing, remote control locked will be recovered.	Indoor unit address elimination	Reserved
Setting	<p>Dial up to disable Auto-restart function</p>	<p>Dial up to erase indoor unit's address.</p>	<p>Default setting</p>
	<p>Dial down to enable Auto-restart function (Default setting)</p>	<p>Default setting</p>	

7.2.3 SW2, only available in heating mode.

Name	Switch number 1,2 of SW2	
Function	Reserved	
Setting		Default setting

Name	Switch number 3,4 of SW2	
Function	<ul style="list-style-type: none"> ● Heating temperature compensation value selection. When temperature difference between setting temperature and room temperature is higher than the setting value, indoor fan motor turns off. ● DO NOT change the default setting without professional guidance. 	
Setting	<p>ON</p> <p>OFF</p> 	6 °C Default setting
	<p>ON</p> <p>OFF</p> 	2 °C
	<p>ON</p> <p>OFF</p> 	4 °C
	<p>ON</p> <p>OFF</p> 	8 °C

Name	Switch number 5,6 of SW2	
Function	<ul style="list-style-type: none"> ● Temperature selection of turning off fan motor in anti-cold-wind-blow mode. When indoor heat exchanger temperature is lower than the setting value, indoor fan motor turns off. ● DO NOT change the default setting without professional guidance. 	
Setting	<p>ON</p>  <p>OFF</p> <p>1 2 3 4 5 6 7 8</p>	15 °C Default setting
	<p>ON</p>  <p>OFF</p> <p>1 2 3 4 5 6 7 8</p>	20 °C
	<p>ON</p>  <p>OFF</p> <p>1 2 3 4 5 6 7 8</p>	24 °C
	<p>ON</p>  <p>OFF</p> <p>1 2 3 4 5 6 7 8</p>	26 °C

Name	Switch number 7,8 of SW2	
Function	<ul style="list-style-type: none"> Indoor fan motor stopping gap selection in heating mode. When room temperature gets to (set point + temperature value in Switch number 3,4 of SW2), at this moment indoor unit capacity requirement is 0, indoor fan motor turns off for 4 minutes (this stopping duration time can be changed by below setting). After that indoor fan will run in low speed for 1 minute (this timing is fixed), if indoor unit capacity requirement is still 0, then indoor fan motor keeps off for 4 minutes, and then cycles. DO NOT change the default setting without professional guidance. 	
Setting	<p>ON</p>  <p>OFF</p>	4 minutes Default setting
	<p>ON</p>  <p>OFF</p>	8 minutes
	<p>ON</p>  <p>OFF</p>	12 minutes
	<p>ON</p>  <p>OFF</p>	16 minutes

SW8, reserved, leave it as default setting (both switches dial down).

7 Capacity tables

8.1 Cooling

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

Capacity (kW)	Outdoor temperature (°C WB/DB)		Indoor temperature (°C WB/DB)											
			15/20		18/24		19/27		24/33		26/38		26/43	
			TC kW	SC kW	TC kW	SC kW	TC kW	SC kW	TC kW	SC kW	TC kW	SC kW	TC kW	SC kW
14	15/20		16.52	12.89	/	/	/	/	/	/	/	/	/	
	18/24		/	/	16.23	11.32	/	/	/	/	/	/	/	
	19/27		/	/	/	/	15.48	10.27	/	/	/	/	/	
	24/33		/	/	/	/	/	/	14.00	8.53	/	/	/	
	26/38		/	/	/	/	/	/	/	/	11.94	6.47	/	
	26/43		/	/	/	/	/	/	/	/	/	/	10.53	5.14
22.4	15/20		26.43	20.31	/	/	/	/	/	/	/	/	/	
	18/24		/	/	25.96	17.83	/	/	/	/	/	/	/	
	19/27		/	/	/	/	24.77	16.18	/	/	/	/	/	
	24/33		/	/	/	/	/	/	22.4	13.44	/	/	/	
	26/38		/	/	/	/	/	/	/	/	19.11	10.19	/	
	26/43		/	/	/	/	/	/	/	/	/	/	16.84	8.10
28	15/20		33.04	25.38	/	/	/	/	/	/	/	/	/	
	18/24		/	/	32.45	22.29	/	/	/	/	/	/	/	
	19/27		/	/	/	/	30.97	20.23	/	/	/	/	/	
	24/33		/	/	/	/	/	/	28.00	16.8	/	/	/	
	26/38		/	/	/	/	/	/	/	/	23.88	12.73	/	
	26/43		/	/	/	/	/	/	/	/	/	/	21.06	10.13
45	15/20		53.10	40.79	/	/	/	/	/	/	/	/	/	
	18/24		/	/	52.15	35.82	/	/	/	/	/	/	/	
	19/27		/	/	/	/	49.77	32.51	/	/	/	/	/	
	24/33		/	/	/	/	/	/	45.00	27.00	/	/	/	
	26/38		/	/	/	/	/	/	/	/	38.38	20.46	/	
	26/43		/	/	/	/	/	/	/	/	/	/	33.85	16.28
56	15/20		66.08	50.76	/	/	/	/	/	/	/	/	/	
	18/24		/	/	64.90	44.58	/	/	/	/	/	/	/	
	19/27		/	/	/	/	61.94	40.46	/	/	/	/	/	
	24/33		/	/	/	/	/	/	56.00	33.60	/	/	/	
	26/38		/	/	/	/	/	/	/	/	47.76	25.46	/	
	26/43		/	/	/	/	/	/	/	/	/	/	42.12	20.26

8.2 Heating

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

Capacity (kW)	Outdoor temperature (°C)		Indoor temperature (°C WB/DB)					
			12/16	10/12	6/7	3/4	-1/0	-6/-5
			TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
14	12	16	12.15	/	/	/	/	/
	10	12	/	11.25	/	/	/	/
	6	7	/	/	10.35	/	/	/
	3	4	/	/	/	9.72	/	/
	-1	0	/	/	/	/	9.00	/
	-6	-5	/	/	/	/	/	7.65
22.4	12	16	21.60	/	/	/	/	/
	10	12	/	20.00	/	/	/	/
	6	7	/	/	18.40	/	/	/
	3	4	/	/	/	17.28	/	/
	-1	0	/	/	/	/	16.00	/
	-6	-5	/	/	/	/	/	13.60
28	12	16	27.00	/	/	/	/	/
	10	12	/	25.00	/	/	/	/
	6	7	/	/	23.00	/	/	/
	3	4	/	/	/	21.60	/	/
	-1	0	/	/	/	/	20.00	/
	-6	-5	/	/	/	/	/	17.00
45	12	16	42.4	/	/	/	/	/
	10	12	/	39.3	/	/	/	/
	6	7	/	/	36.1	/	/	/
	3	4	/	/	/	33.9	/	/
	-1	0	/	/	/	/	31.4	/
	-6	-5	/	/	/	/	/	26.7
56	12	16	52.7	/	/	/	/	/
	10	12	/	48.8	/	/	/	/
	6	7	/	/	44.9	/	/	/
	3	4	/	/	/	42.1	/	/
	-1	0	/	/	/	/	39.0	/
	-6	-5	/	/	/	/	/	33.2

8 Electrical characteristics

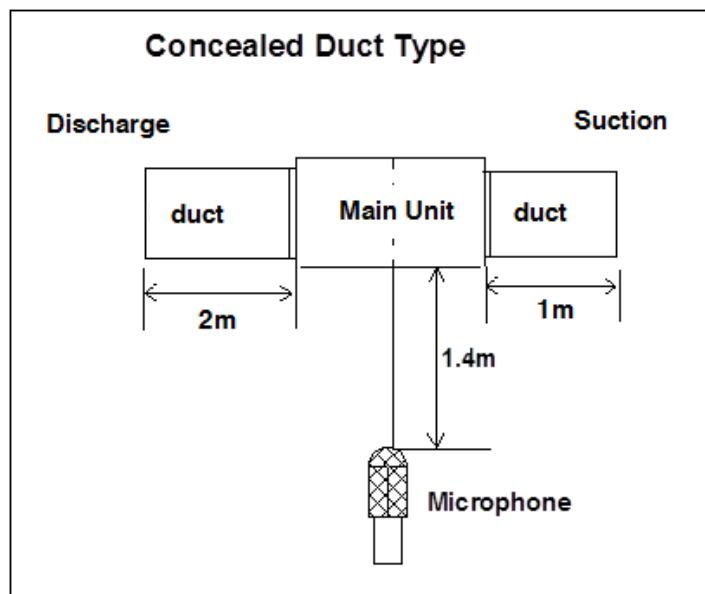
Model	Indoor unit				MFC	Power cable			Signal cable
	Hz	Voltage	Minimum	Maximum		L ≤ 20m	L ≤ 50m	Grounded	
VEFA048Q3A-GCV140	50Hz	220-240V	198	253	15	2*2.5mm ²	2*4.0mm ²	2.5mm ²	2*0.75 mm ²
VEFA076Q3A-GCV224	50Hz	220-240V	198	253	15	2*2.5mm ²	2*4.0mm ²	4.0mm ²	2*0.75 mm ²
VEFA096Q3A-GCV280	50Hz	220-240V	198	253	15	2*2.5mm ²	2*4.0mm ²	4.0mm ²	2*0.75 mm ²
VEFA150Q7A-GCV450	50HZ	380-415V	342	437	15	4*2.5mm ²	4*4.0mm ²	2.5mm ²	2*0.75 mm ²
VEFA190Q7A-GCV560	50HZ	380-415	342	437	15	4*2.5mm ²	4*4.0mm ²	2.5mm 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 power Output (W)*
- 6) *FLC: Full Load Current (A)*

9 Sound levels

10.1 Test condition



Notes:

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

10.2 Test data (Sound pressure level)

Model	Sound pressure level (dB(A))		
	High speed	Medium speed	Low speed
VEFA048Q3A-GCV140	48	45	42
VEFA076Q3A-GCV224	/	/	48
VEFA096Q3A-GCV280	/	52	45


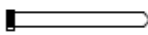





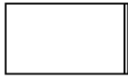
Model	Sound pressure level (dB(A))
VEFA150Q7A-GCV450	58
VEFA190Q7A-GCV560	62

Notes:

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

10 Accessories

11.1 Standard accessories.

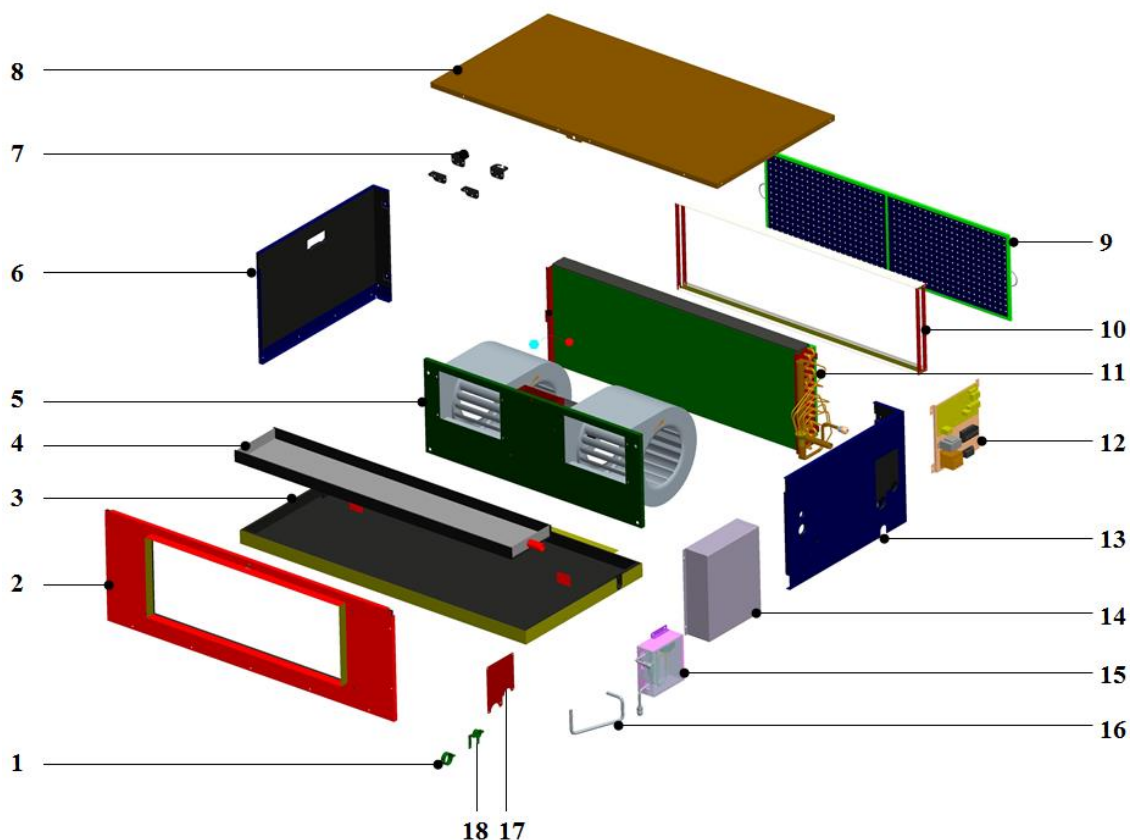
Name of accessories	Numbers	Shape	Application
Installation instruction for indoor unit	1	The manual	(Please be sure to hand it to user.)
Insulating tube	2		To encase single joints of high and low pressure pipes.
Ribbon	6		Bind up cables and connecting pipes.
Dome insulated tip	6		Used to connect wires
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.

11.2 Parts purchased locally

	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
Cooper pipe	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.						

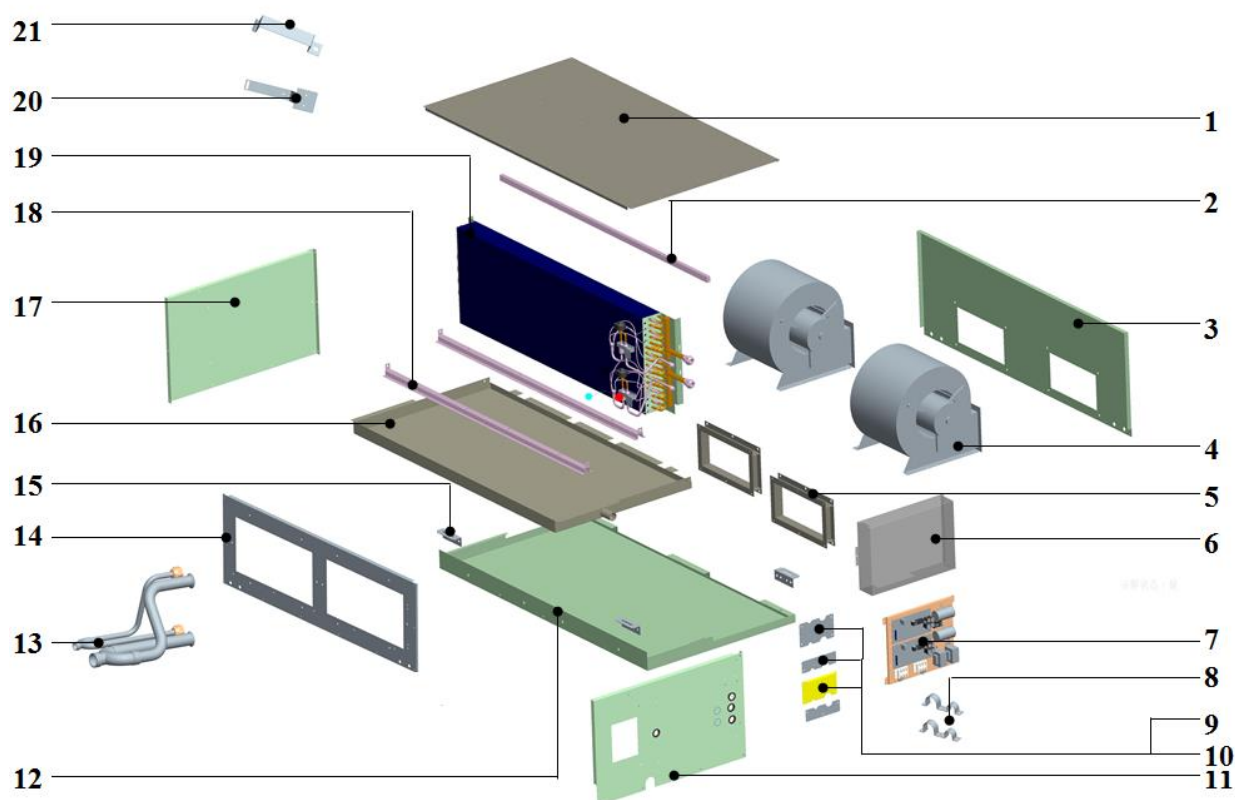
11 Exploded view

- VEFA048Q3A-GCV140



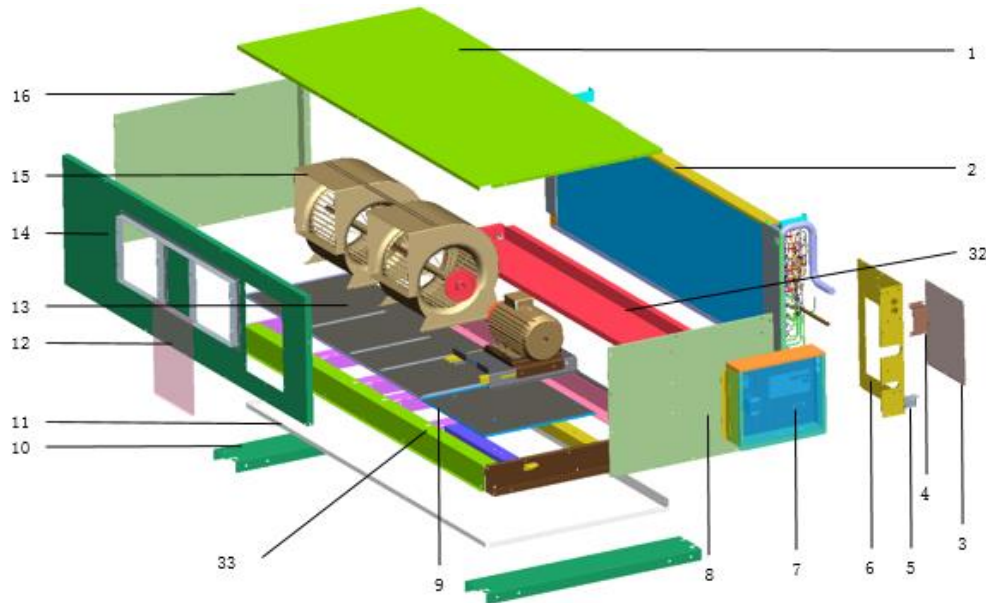
No.	Part name	Quantity	No.	Part name	Quantity
1	Pipe clamp1	1	11.1	Evaporator	1
1a	Pipe clamp2	1	11.2	Current dividing assy	1
2	Front panel assy	2	11.3	Air inlet header pipe assembly of evaporator	1
2.1	Front panel	1	12	E-parts assy	1
3	Chassis assy	1	12.1	Electric box panel	1
3.1	Chassis	1	12.2	Indoor E-parts box	1
4	Water pan welding assy	1	12.3	Temperature sensors	1
4.1	Water pan welding assy	1	12.4	Capacitor	1
4.2	Water outlet rubber cover	1	12.5	Compressor capacitor	1
5	Indoor E-parts box	1	12.6	Transformer	1
5.1	Fixing panel for fan	1	12.7	Terminal	1
5.2	Motor	1	13	Right side board assy	1
5.3	Left scroll case	1	13.1	Right side board	1
5.4	Right scroll case	1	14	Electric box cover	1
6	Left side board assy	1	15	Welding assy for expansion valve	1
6.1	Left side board	1	15.1	Welding assy for expansion valve	1
6.2	Handle	1	15.2	Expansion valve cover	1
7	Hanger	4	15.3	EXV box welding assy	1
8	Top Cover assembly	1	16	pipe connection assy	1
8.1	Upper cover	1	17	Cover for chassis assy	1
9	Filter	2	17.1	Cover for chassis	1
10	Retune air welding assy	1	18	Lower Pipe clamp1	1
11	Evaporator assy	1	18a	Upper Pipe clamp1	1

- VEFA076Q3A-GCV224, VEFA096Q3A-GCV280

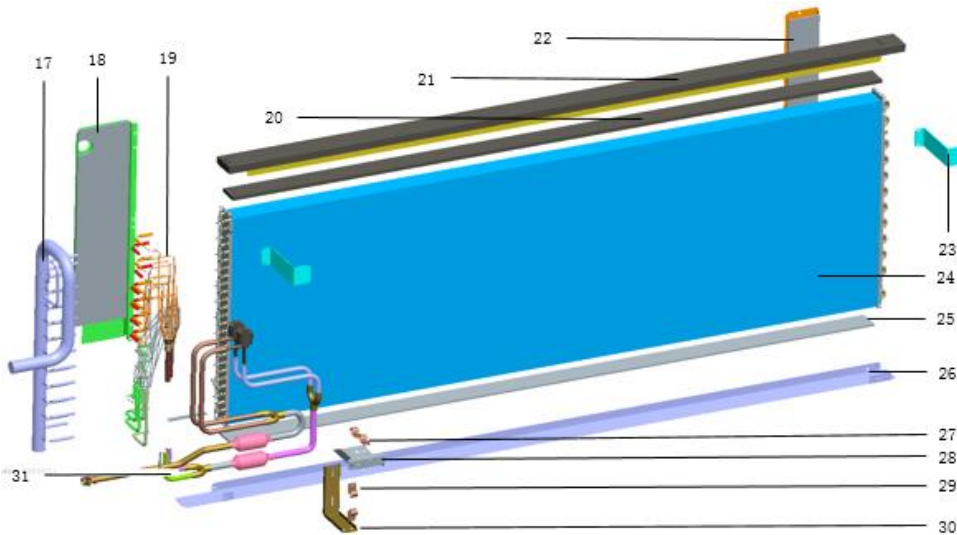


No.	Part name	Quantity	No.	Part name	Quantity
1	Top cover plate with insulation sponge	1	12	Chassis paste with insulation sponge	1
1.1	Top cover plate	1	13	Connecting tube assembly 1	1
2	Reinforcing plate	1	13.1	Connecting tube assembly 2	1
3	Air outlet with insulation sponge	1	14	Air return panel assy	1
3.1	Air outlet assy	1	14.1	Air return panel	1
3.1.1	Air out board	1	15	Hanger	4
4	Motor bracket assembly	1	16	The water tray sticker with insulation sponge	1
4.1	Indoor motor	2	16.1	Water pan assy	1
4.2	The fan assembly	2	17	Right panel with insulation sponge	1
5	Flange with insulation sponge	2	17.1	Right side board	1
5.1	Flange welded components	2	18	Motor bracket assembly	2
6	E- parts box cover	1	19	Evaporator parts	1
7	Electronic control components	1	19.1	Evaporator assy	1
8	Pipe clamps	2	19.2	Collecting pipe assy	2
8.1	Pipe clamps 1	2	19.3	Current dividing assy A	1
9	The tube cover A welded assemblies	1	19.4	Current dividing assy B	1
10	The tube cover B welded assemblies	1	20	The expansion valve retainer	2
11	Left panel with insulation sponge	1	21	Fixed hook	2
11.1	Left side board	1			

- VEFA150Q7A-GCV450, VEFA190Q7A-GCV560



12.1



12.2

No.	Part name	Quantity	No.	Part name	Quantity
1	Top cover plate attached to the cotton component	1	18	The right supporting board	1
2	Pipe assy	1	19	Current dividing assy A	1+1
3	Repair plate affixed cotton assy B	1	20	Regular sponge	1
4	Pressure line panel affixed cotton assy	1	21	Upper cover plate cotton assy	1
5	Fixing panel for pipe C	1	22	The left supporting board for evaporator	1
6	The vice board for right side plate affixed cotton parts	1	23	Fixing panel for Evaporator	2
7	Eletronic control components	1	24	Evaporator components	1
8	Right side plate affixed cotton parts	1	25	Regular sponge	1
9	Fan motor fixing board assy B	1	26	Lower cover plate for evaporator	1
10	Hanger	2	27	Pipe clamps	2
11	Chassis cover plate affixed cotton parts	1	28	Fixing panel for pipe A	1
12	Repair plate affixed cotton assy A	1	29	Pipe clamps	2
13	Fan motor fixing board assy A	1	30	Fixing panel for pipe B	1
14	Air outlet affixed cotton assy	1	31	Emerson assy	1
15	Fan motor assy for indoor unit	1	32	The water tray Sticker cotton parts	1
16	Left side plate affixed cotton parts	1	33	Base assy	1
17	Collecting pipe assy	1			



OMEGA
ENVIRONMENTAL
TECHNOLOGIES LLC.

17702 Mitchell North, #101
Irvine, CA. 92614 .USA
Tel: 714 795 2830
Fax: 714 966 1646
info@otecomega.com
www.otecomega.com

OTECTM
AIR CONDITIONING

Showroom & Technology Center
11380 Interchange Circle North
Miramar, FL 33025 .USA
Tel: 305 901 1270
Fax: 954 212 8280
info@otecomega.com
www.otecomega.com

VEFAQ3(7)A-TM1D0123