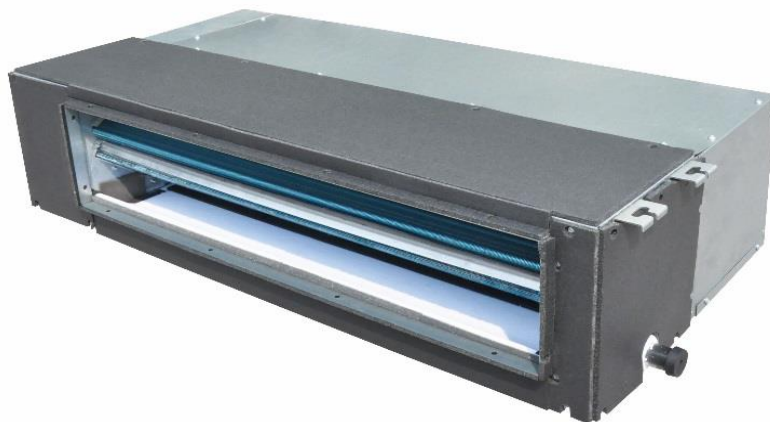
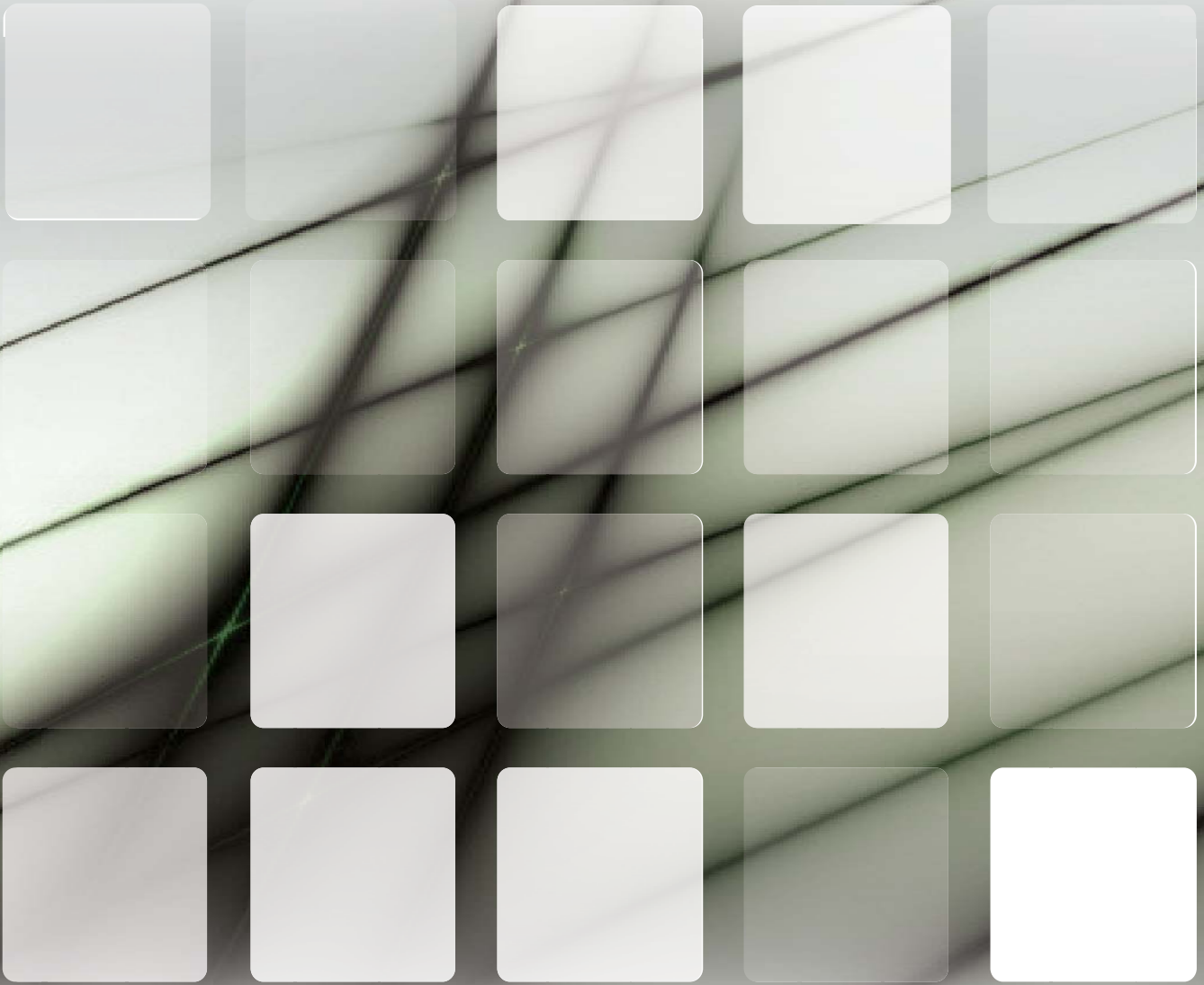


VELP Series

Low Static Ducted VRF Indoor Unit Technical Manual

220~240V/1/50-60Hz



Content

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2.	Dimensions
3.	Service Space
4.	Piping Diagram
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1. Specifications

Model			VELP008Q0A-GCV022	VELP010Q0A-GCV028	VELP012Q0A-GCV036
Power supply			220-240V/1PH/50-60Hz	220-240V/1PH/50-60Hz	220-240V/1PH/50-60Hz
Capacity	Cooling	kW	2.2	2.8	3.6
	Heating	kW	2.5	3.2	4.0
Power Input		kW	0.02	0.02	0.03
Fan motor	Model		DR-310-27F-8	DR-310-27F-8	DR-310-27F-8
	Type		DC	DC	DC
	Brand		Panasonic	Panasonic	Panasonic
	Speed (Hi/Med/Low)	r/min	1130/980/920	1130/980/920	1330/1090/1000
	ESP	Pa	30	30	30
Indoor coil	Number of rows		2	2	2
	Fin type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube diameter and type	mm	Ø7, Innergroove tube	Ø7, Innergroove tube	Ø7, Innergroove tube
Air flow (High speed)		m ³ /h	450	450	500
Sound power level		dB(A)	24~29	24~29	25~32
Body	Dimension (W×H×D)	mm	814×210×467	814×210×467	814×210×467
	Packing (W×H×D)	mm	910×240×510	910×240×510	910×240×510
	Net/Gross weight	kg	16/19	16/19	16.5/19
Refrigerant type			R410A	R410A	R410A
Throttle type			EXV	EXV	EXV
Design pressure		MPa	4.5	4.5	4.5
Liquid pipe / Gas pipe		mm	Ø6.35/ Ø9.53	Ø6.35/ Ø9.53	Ø6.35/ Ø12.7
Connecting wire	Power wire	mm ²	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)
	Signal wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage water pipe (Outer diameter)		mm	Ø25	Ø25	Ø25
Controller	Standard		Wired controller	Wired controller	Wired controller
	Optional		Remote controller	Remote controller	Remote controller
Operation temp		°C	16~32	16~32	16~32

Notes:

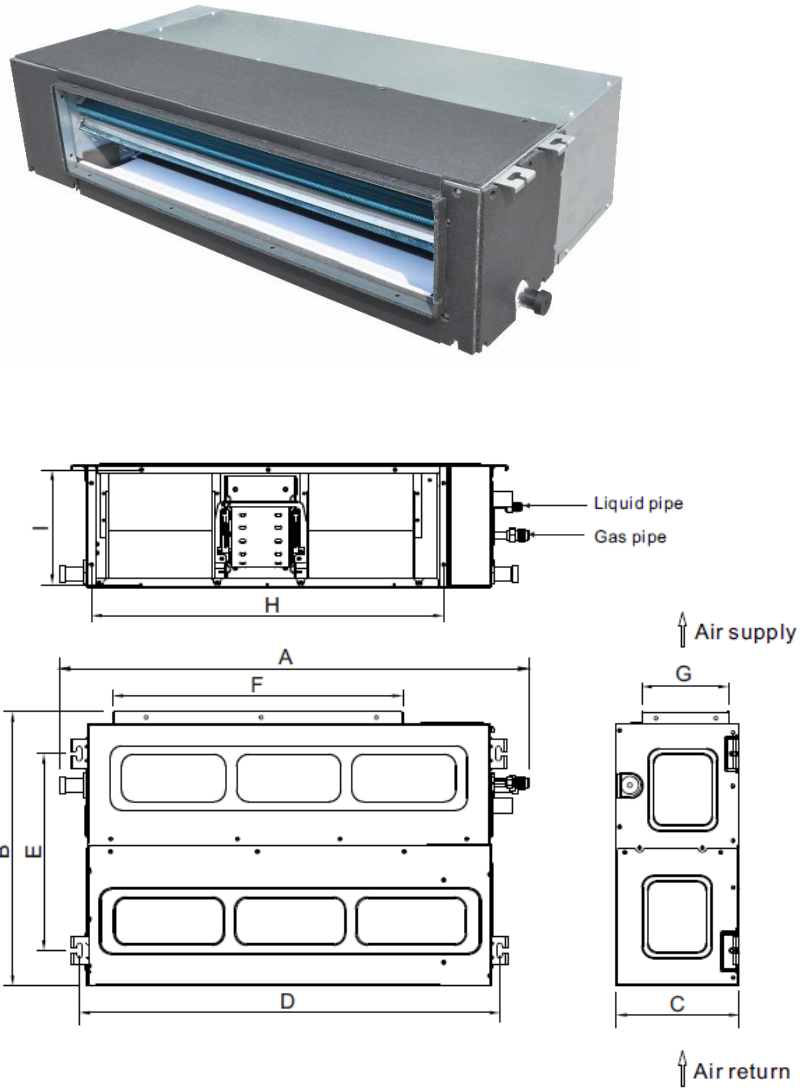
- 1) Nominal cooling capacities are based on the following conditions.
 - Outdoor temperature: 35°C DB
 - Return air temperature: 27°C DB, 19°C WB
 - Equivalent piping length: 8m in horizontal
- 2) Nominal heating capacities are based on the following condition.
 - Outdoor temperature: 7°C DB, 6°C WB
 - Return air temperature: 20°C DB
 - Equivalent piping length: 8m in horizontal
- 3) 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.
- 4) The above data may be changed without notice for future improvement on quality and performance.

Model			VELP015Q0A-GCV045	VELP019Q0A-GCV056	VELP024Q0A-GCV071
Power supply			220-240V/1PH/50-60Hz	220-240V/1PH/50-60Hz	220-240V/1PH/50-60Hz
Capacity	Cooling	kW	4.5	5.6	7.1
	Heating	kW	5.0	6.3	8.0
Power Input		kW	0.035	0.045	0.055
Fan motor	Model		DR-310-27F-8	DR-310-55F-8	DR-310-68F-8
	Type		DC	DC	DC
	Brand		Panasonic	Panasonic	Panasonic
	Speed (Hi/Med/Low)	r/min	1360/1220/1200	1330/1130/1070	1360/1200/1150
	ESP	Pa	30	30	30
Indoor coil	Number of rows		2	2	2
	Fin type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube diameter and type	mm	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube
Air flow (High speed)		m ³ /h	620	800	1000
Sound power level		dB(A)	32~37	28~38	30~39
Body	Dimension (W×H×D)	mm	814×210×467	1010×210×467	1214×210×467
	Packing (W×H×D)	mm	910×240×510	1110×240×510	1310×240×510
	Net/Gross weight	kg	16.5/19	20/23	25/28
Refrigerant type			R410A	R410A	R410A
Throttle type			EXV	EXV	EXV
Design pressure		MPa	4.5	4.5	4.5
Liquid pipe / Gas pipe		mm	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø9.53/ Ø15.9
Connecting wire	Power wire	mm ²	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)
	Signal wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage water pipe (Outer diameter)		mm	Ø25	Ø25	Ø25
Controller	Standard		Wired controller	Wired controller	Wired controller
	Optional		Remote controller	Remote controller	Remote controller
Operation temp		°C	16~32	16~32	16~32

Notes:

- 1) 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
- 2) 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
- 3) 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.
- 4) The above data may be changed without notice for future improvement on quality and performance.

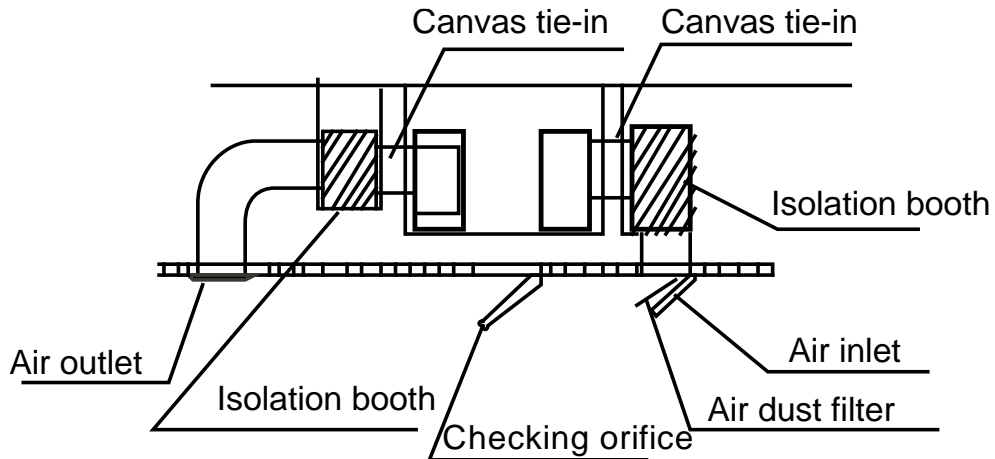
2. Dimensions



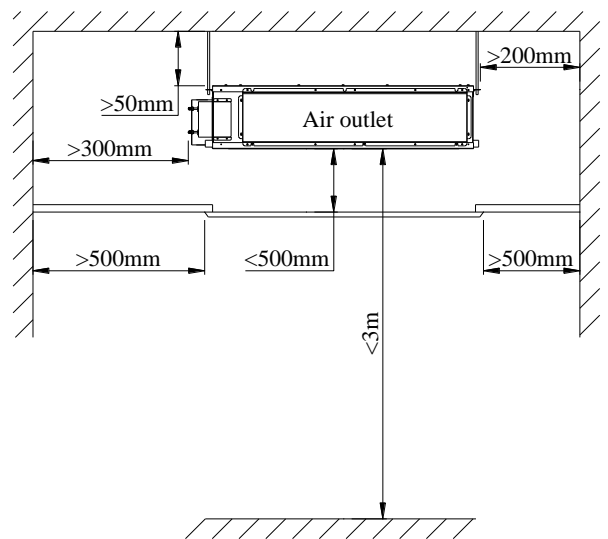
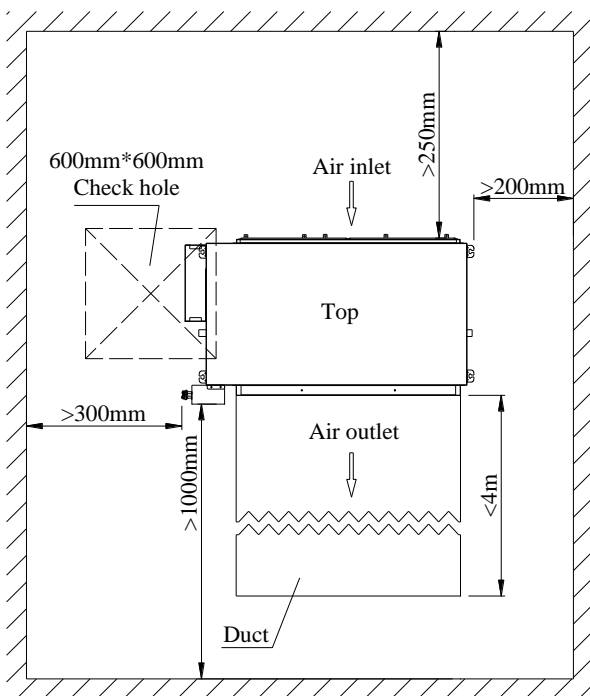
Mode	Body dimension (mm)			Installation dimension (mm)		Air outlet dimension (mm)		Air inlet dimension (mm)	
	A	B	C	D	E	F	G	H	I
VELP008Q0A-GCV022	814	467	210	728	335	503	150	611	200
VELP010Q0A-GCV028	814	467	210	728	335	503	150	611	200
VELP012Q0A-GCV036	814	467	210	728	335	503	150	611	200
VELP015Q0A-GCV045	814	467	210	728	335	503	150	611	200
VELP019Q0A-GCV056	1010	467	210	928	335	705	150	811	200
VELP024Q0A-GCV071	1214	467	210	1128	335	905	150	1011	200

3. Service space

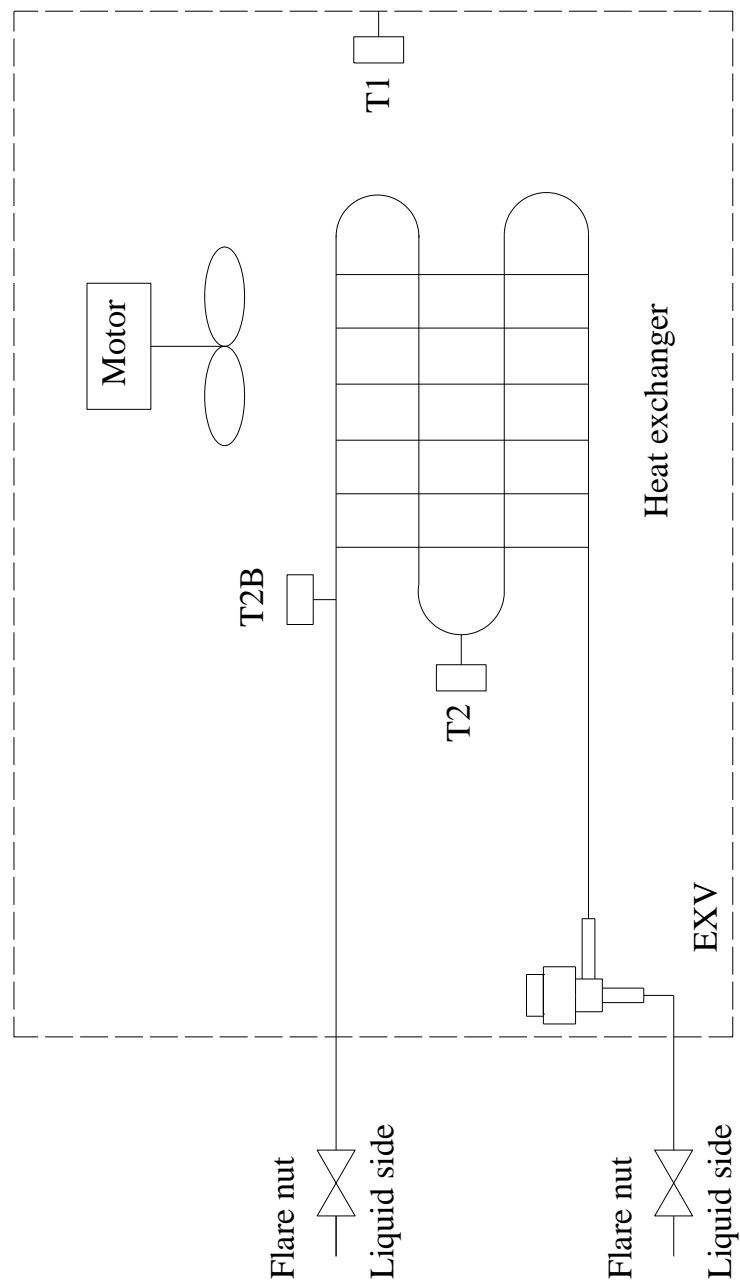
- Ensure the needed spaces for installation and maintenance.
- The ceiling is horizontal and its structure can endure the weight of the indoor unit.
- The outlet and the inlet are not impeded, and the influence of external air is the least.
- The air flow can reach throughout the room.
- The connecting 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:



4. Piping diagram

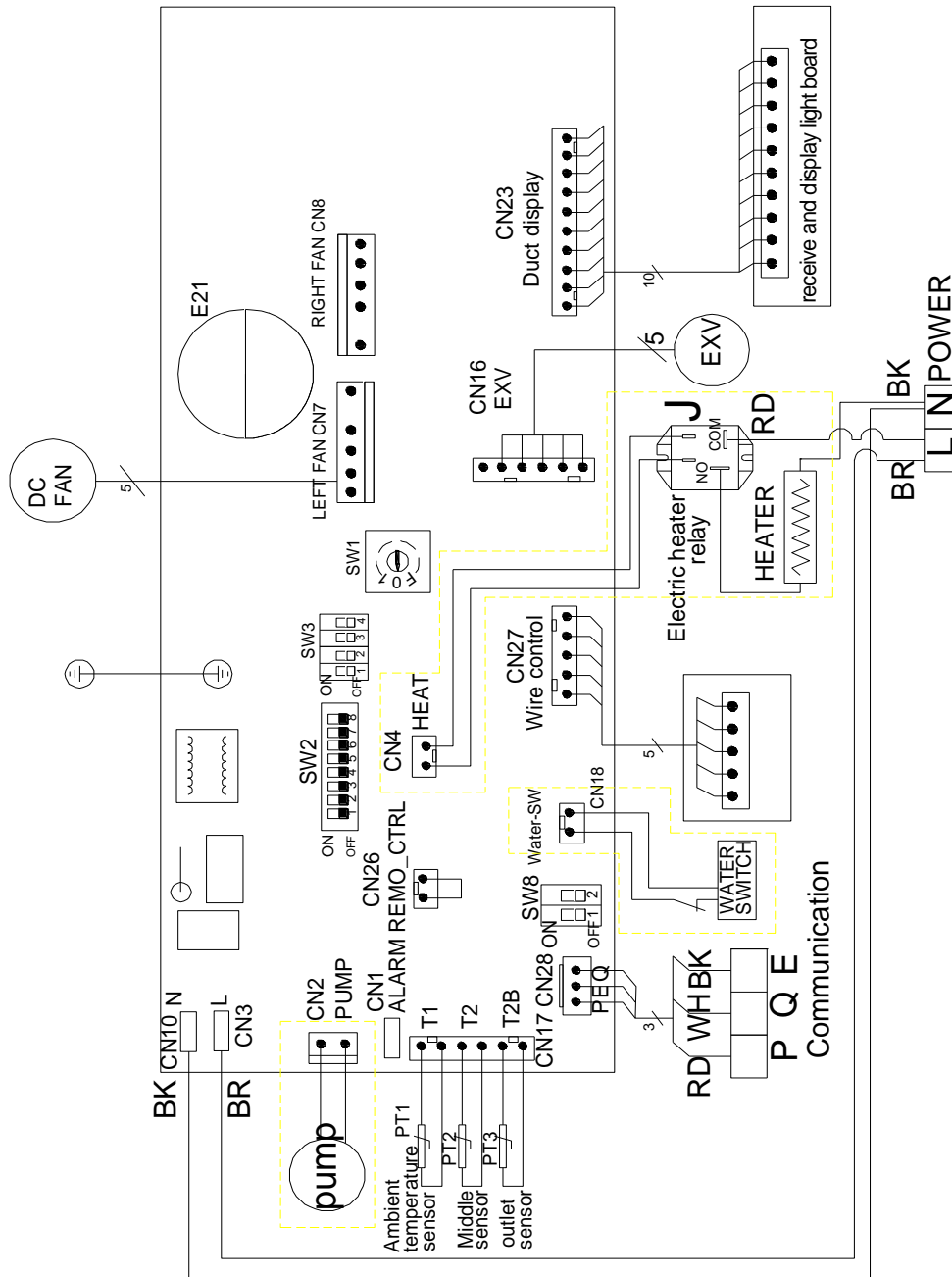


Notes:

- 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

5. Wiring diagram

7.1 Wiring diagram



Notes:

1) Color code:

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

2) T1: Room temperature sensor

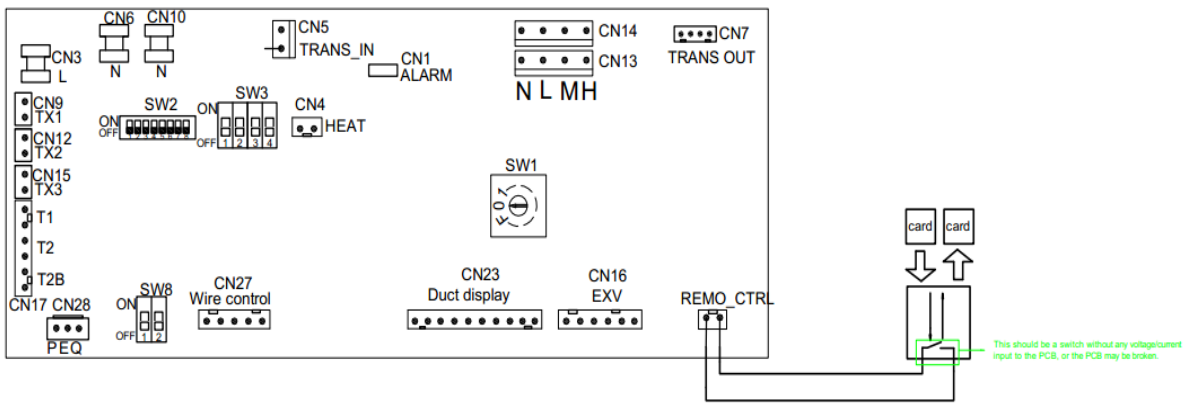
3) T2: Temperature sensor of middle heat exchanger

4) T2B: Temperature sensor of heat exchanger outlet

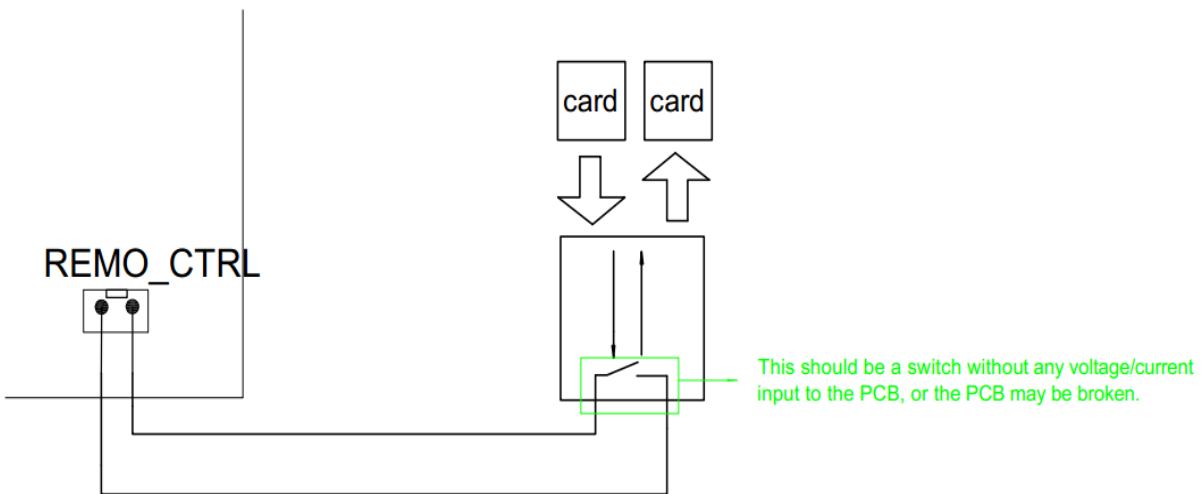
5) EXV: Electrical expansion valve

6) Electrical heater is optional, please contact to Chigo's technician for the detail.

OMEGA VRF indoor unit connect with card key



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

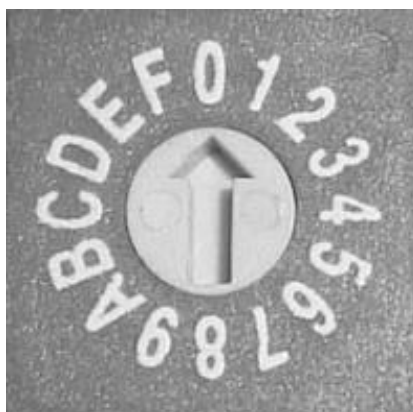


NOTE: The terminal in the hotel card module must be a switch without any voltage/current input to the PCB, otherwise the PCB will be broken.

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

ON

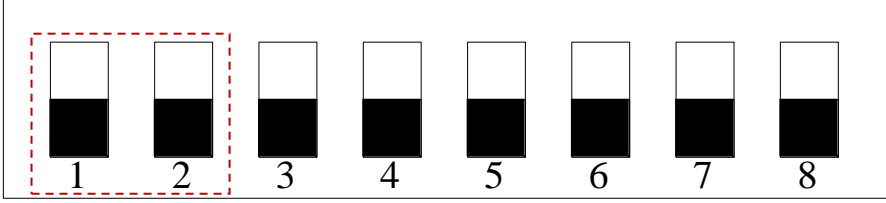
DP

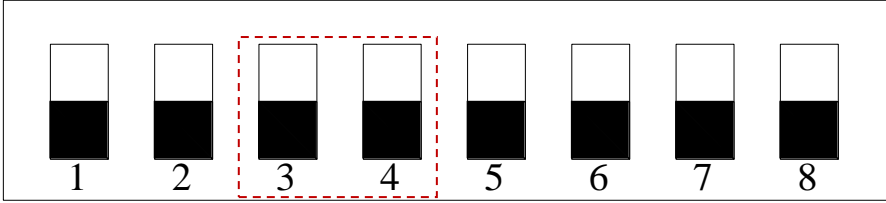
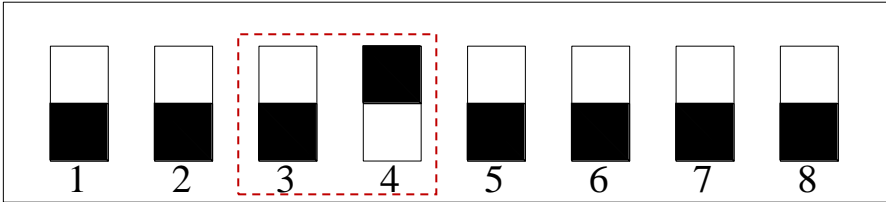
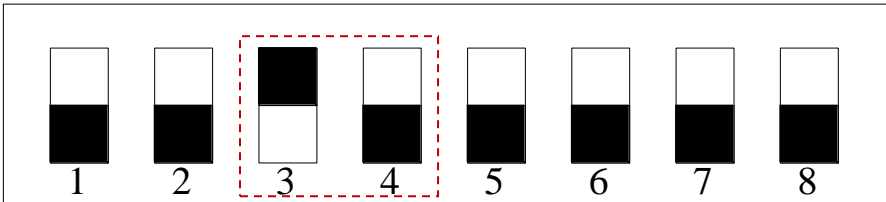
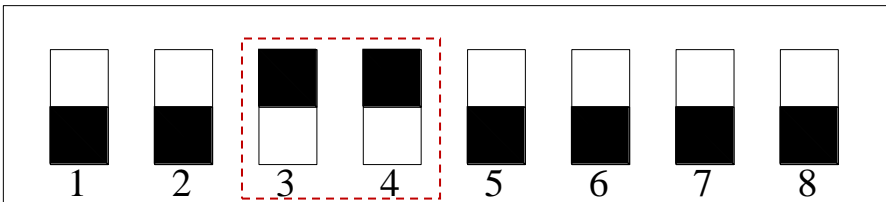
7.2.2 SW3

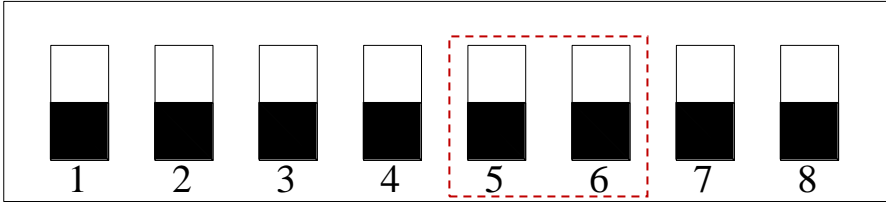
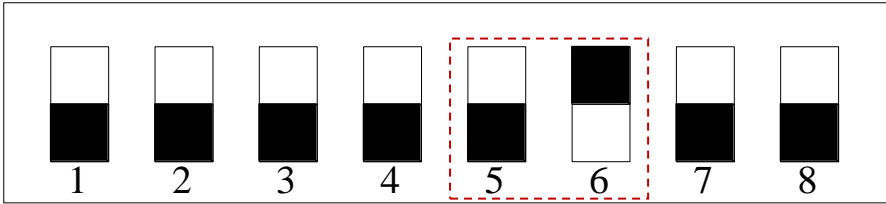
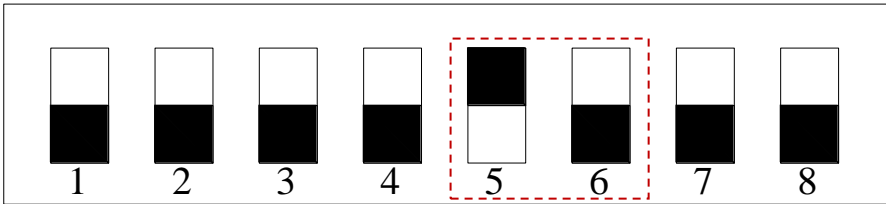
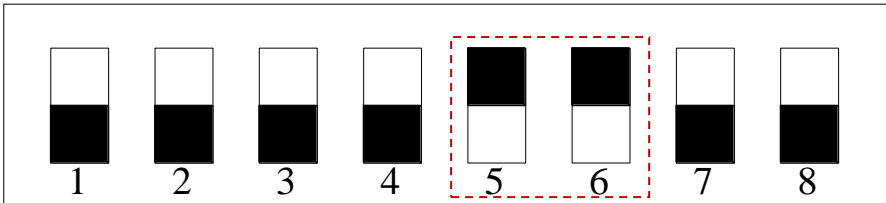
1 2 3 4

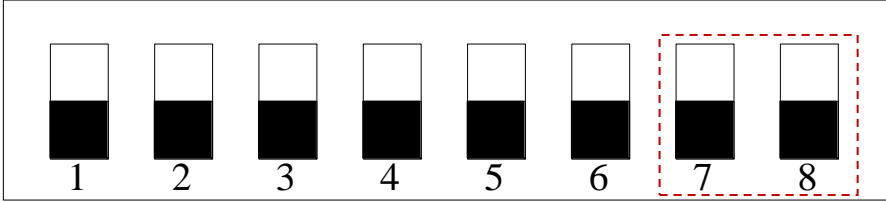
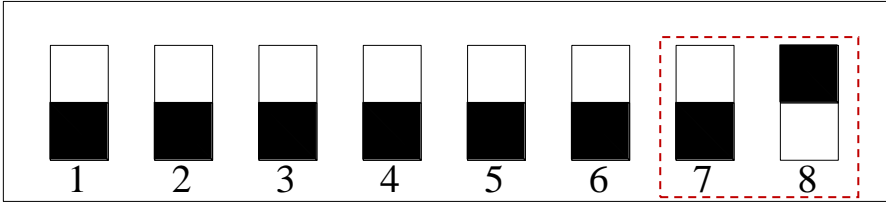
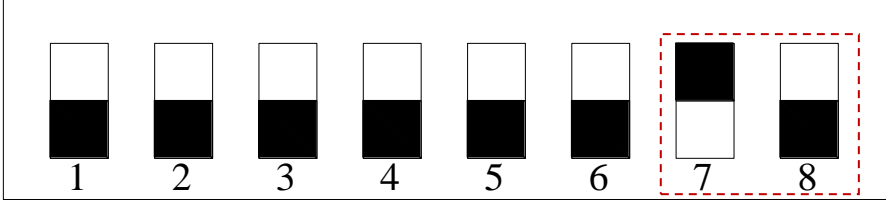
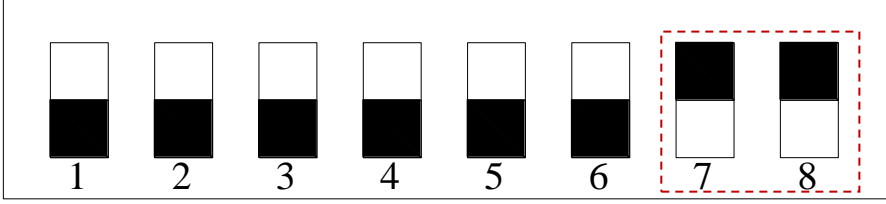
Name	Switch number 1 of SW3	Switch number 4 of SW3	Switch number 2,3 of SW3
Function	Auto-restart when power failure switch. ON/OFF status, operation mode, fan speed, temperature, swing, remote control locked will be recovered.	Indoor unit address elimination ON DP	Reserved
Setting	<p>Dial upto disable Auto-restart function</p>	<p>Dial upto 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 4minutes (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).

8.2 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
	WB	DB	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
2.2	-20	-19.8	1.46	1.46	1.46	1.46	1.46	1.46
	-19	-18.8	1.56	1.56	1.56	1.56	1.56	1.56
	-17	-16.7	1.64	1.64	1.64	1.64	1.64	1.64
	-15	-14.7	1.69	1.69	1.69	1.69	1.69	1.69
	-13	-12.6	1.79	1.79	1.79	1.79	1.79	1.79
	-11	-10.5	1.82	1.85	1.85	1.85	1.85	1.85
	-10	-9.5	1.90	1.90	1.90	1.90	1.90	1.90
	-9.1	-8.5	1.95	1.95	1.95	1.95	1.95	1.95
	-7.6	-7	1.98	1.98	1.98	1.98	1.98	1.98
	-5.6	-5	2.05	2.05	2.05	2.05	2.05	2.05
	-3.7	-3	2.16	2.16	2.16	2.16	2.16	2.16
	-0.7	0	2.31	2.31	2.31	2.31	2.31	2.18
	2.2	3	2.44	2.44	2.44	2.44	2.39	2.18
	4.1	5	2.50	2.50	2.50	2.50	2.39	2.18
	6	7	2.60	2.60	2.50	2.50	2.39	2.18
	2.8	-20	-19.8	1.79	1.79	1.79	1.79	1.79
-19		-18.8	1.92	1.92	1.92	1.92	1.92	1.92
-17		-16.7	2.02	2.02	2.02	2.02	2.02	2.02
-15		-14.7	2.02	2.02	2.02	2.02	2.02	2.02
-13		-12.6	2.14	2.14	2.14	2.14	2.14	2.14
-11		-10.5	2.24	2.24	2.24	2.24	2.24	2.24
-10		-9.5	2.34	2.34	2.34	2.34	2.34	2.34
-9.1		-8.5	2.40	2.40	2.40	2.40	2.40	2.40
-7.6		-7	2.43	2.43	2.43	2.43	2.43	2.43
-5.6		-5	2.53	2.53	2.53	2.53	2.53	2.53
-3.7		-3	2.66	2.66	2.66	2.66	2.66	2.66
-0.7		0	2.85	2.85	2.85	2.85	2.85	2.69
2.2		3	3.01	3.01	3.01	3.01	2.94	2.69
4.1		5	3.10	3.10	3.10	3.10	2.94	2.69
6		7	3.20	3.20	3.20	3.10	2.94	2.69
3.6		-20	-19.8	2.24	2.24	2.24	2.24	2.24
	-19	-18.8	2.40	2.40	2.40	2.40	2.40	2.40
	-17	-16.7	2.52	2.52	2.52	2.52	2.52	2.52
	-15	-14.7	2.60	2.60	2.60	2.60	2.60	2.60
	-13	-12.6	2.68	2.68	2.68	2.68	2.68	2.68
	-11	-10.5	2.80	2.80	2.80	2.80	2.80	2.80
	-10	-9.5	2.92	2.92	2.92	2.92	2.92	2.92
	-9.1	-8.5	3.00	3.00	3.00	3.00	3.00	3.00
	-7.6	-7	3.04	3.04	3.04	3.04	3.04	3.04
	-5.6	-5	3.16	3.16	3.16	3.16	3.16	3.16
	-3.7	-3	3.32	3.32	3.32	3.32	3.32	3.32
	-0.7	0	3.56	3.56	3.56	3.56	3.56	3.36
	2.2	3	3.76	3.76	3.76	3.76	3.68	3.36
	4.1	5	3.88	3.88	3.88	3.88	3.68	3.36
	6	7	4.00	4.00	4.00	3.88	3.68	3.36
	7.9	9	4.12	4.12	4.00	3.88	3.68	3.36
9.8	11	4.24	4.24	4.00	3.88	3.68	3.36	
11.8	13	4.40	4.32	4.00	3.88	3.68	3.36	
13.7	15	4.52	4.32	4.00	3.88	3.68	3.36	

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
	WB	DB	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
4.5	-20	-19.8	2.80	2.80	2.80	2.80	2.80	2.80
	-19	-18.8	3.00	3.00	3.00	3.00	3.00	3.00
	-17	-16.7	3.15	3.15	3.15	3.15	3.15	3.15
	-15	-14.7	3.25	3.25	3.25	3.25	3.25	3.25
	-13	-12.6	3.35	3.35	3.35	3.35	3.35	3.35
	-11	-10.5	3.50	3.50	3.50	3.50	3.50	3.50
	-10	-9.5	3.65	3.65	3.65	3.65	3.65	3.65
	-9.1	-8.5	3.75	3.75	3.75	3.75	3.75	3.75
	-7.6	-7	3.80	3.80	3.80	3.80	3.80	3.80
	-5.6	-5	3.95	3.95	3.95	3.95	3.95	3.95
	-3.7	-3	4.15	4.15	4.15	4.15	4.15	4.15
	-0.7	0	4.45	4.45	4.45	4.45	4.45	4.20
	2.2	3	4.70	4.70	4.70	4.70	4.60	4.20
	4.1	5	4.85	4.85	4.85	4.85	4.60	4.20
	6	7	5.00	5.00	5.00	4.85	4.60	4.20
5.6	7.9	9	5.15	5.15	5.00	4.85	4.60	4.20
	9.8	11	5.30	5.30	5.00	4.85	4.60	4.20
	11.8	13	5.50	5.40	5.00	4.85	4.60	4.20
	13.7	15	5.65	5.40	5.00	4.85	4.60	4.20
	-20	-19.8	3.53	3.53	3.53	3.53	3.53	3.53
	-19	-18.8	3.78	3.78	3.78	3.78	3.78	3.78
	-17	-16.7	3.97	3.97	3.97	3.97	3.97	3.97
	-15	-14.7	4.10	4.10	4.10	4.10	4.10	4.10
	-13	-12.6	4.22	4.22	4.22	4.22	4.22	4.22
	-11	-10.5	4.41	4.41	4.41	4.41	4.41	4.41
	-10	-9.5	4.60	4.60	4.60	4.60	4.60	4.60
	-9.1	-8.5	4.73	4.73	4.73	4.73	4.73	4.73
	-7.6	-7	4.79	4.79	4.79	4.79	4.79	4.79
	-5.6	-5	4.98	4.98	4.98	4.98	4.98	4.98
	-3.7	-3	5.23	5.23	5.23	5.23	5.23	5.23
-0.7	0	5.61	5.61	5.61	5.61	5.61	5.29	
7.1	2.2	3	5.92	5.92	5.92	5.92	5.80	5.29
	4.1	5	6.11	6.11	6.11	6.11	5.80	5.29
	6	7	6.30	6.30	6.30	6.11	5.80	5.29
	7.9	9	6.49	6.49	6.30	6.11	5.80	5.29
	9.8	11	6.68	6.68	6.30	6.11	5.80	5.29
	11.8	13	6.93	6.80	6.30	6.11	5.80	5.29
	13.7	15	7.12	6.80	6.30	6.11	5.80	5.29
	-20	-19.8	4.48	4.48	4.48	4.48	4.48	4.48
	-19	-18.8	4.80	4.80	4.80	4.80	4.80	4.80
	-17	-16.7	5.04	5.04	5.04	5.04	5.04	5.04
	-15	-14.7	5.20	5.20	5.20	5.20	5.20	5.20
	-13	-12.6	5.36	5.36	5.36	5.36	5.36	5.36
	-11	-10.5	5.60	5.60	5.60	5.60	5.60	5.60
	-10	-9.5	5.84	5.84	5.84	5.84	5.84	5.84
	-9.1	-8.5	6.00	6.00	6.00	6.00	6.00	6.00
-7.6	-7	6.08	6.08	6.08	6.08	6.08	6.08	
-5.6	-5	6.32	6.32	6.32	6.32	6.32	6.32	
-3.7	-3	6.64	6.64	6.64	6.64	6.64	6.64	
-0.7	0	7.12	7.12	7.12	7.12	7.12	6.72	
2.2	3	7.52	7.52	7.52	7.52	7.36	6.72	
4.1	5	7.76	7.76	7.76	7.76	7.36	6.72	
6	7	8.00	8.00	8.00	7.76	7.36	6.72	
7.9	9	8.24	8.24	8.00	7.76	7.36	6.72	
9.8	11	8.48	8.48	8.00	7.76	7.36	6.72	
11.8	13	8.80	8.64	8.00	7.76	7.36	6.72	
13.7	15	9.04	8.64	8.00	7.76	7.36	6.72	

7 Electrical characteristics

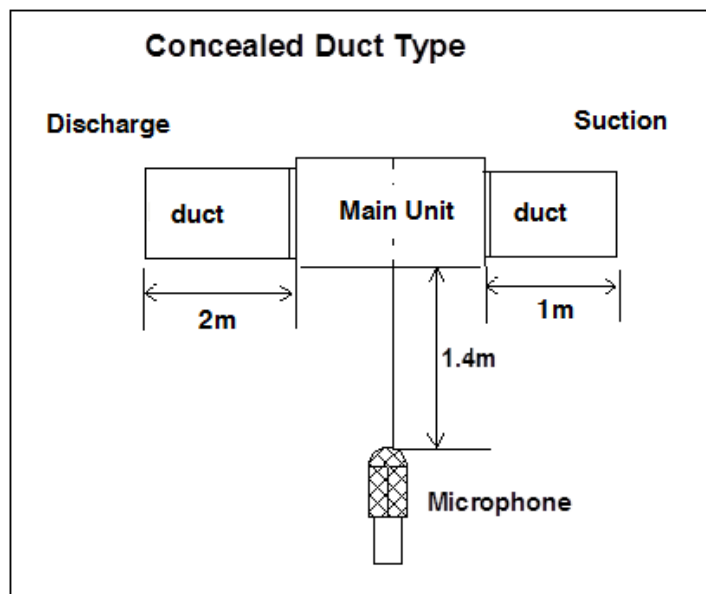
Model	Indoor unit				MFC	Power cable			Signal cable
	Hz	Voltage	Minimum	Maximum		L ≤ 20m	L ≤ 50m	Grounded	
VELP008Q0A-GCV022	50-60Hz	220-240V	198	264	15	2*2.5mm ²	2*4.0mm ²	2.5mm ²	2*0.75 mm ²
VELP010Q0A-GCV028	50-60Hz	220-240V	198	264	15	2*2.5mm ²	2*4.0mm ²	2.5mm ²	2*0.75 mm ²
VELP012Q0A-GCV036	50-60Hz	220-240V	198	264	15	2*2.5mm ²	2*4.0mm ²	2.5mm ²	2*0.75 mm ²
VELP015Q0A-GCV045	50-60Hz	220-240V	198	264	15	2*2.5mm ²	2*4.0mm ²	2.5mm ²	2*0.75 mm ²
VELP019Q0A-GCV056	50-60Hz	220-240V	198	264	15	2*2.5mm ²	2*4.0mm ²	2.5mm ²	2*0.75 mm ²
VELP024Q0A-GCV071	50-60Hz	220-240V	198	264	15	2*2.5mm ²	2*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 powerOutput (W)*
- 6) *FLC: Full Load Current (A)*

8 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)



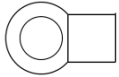

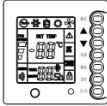
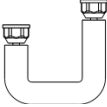
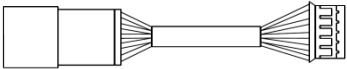
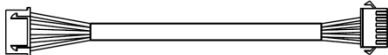

Model	Sound pressure level (dB(A))		
	High speed	Medium speed	Low speed
VELP008Q0A-GCV022	29	26	24
VELP010Q0A-GCV028	29	26	24
VELP012Q0A-GCV036	32	28	25
VELP015Q0A-GCV045	37	35	32
VELP019Q0A-GCV056	38	32	28
VELP024Q0A-GCV071	39	34	30

Notes:

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

9 Accessories

11.1 Standard accessories.

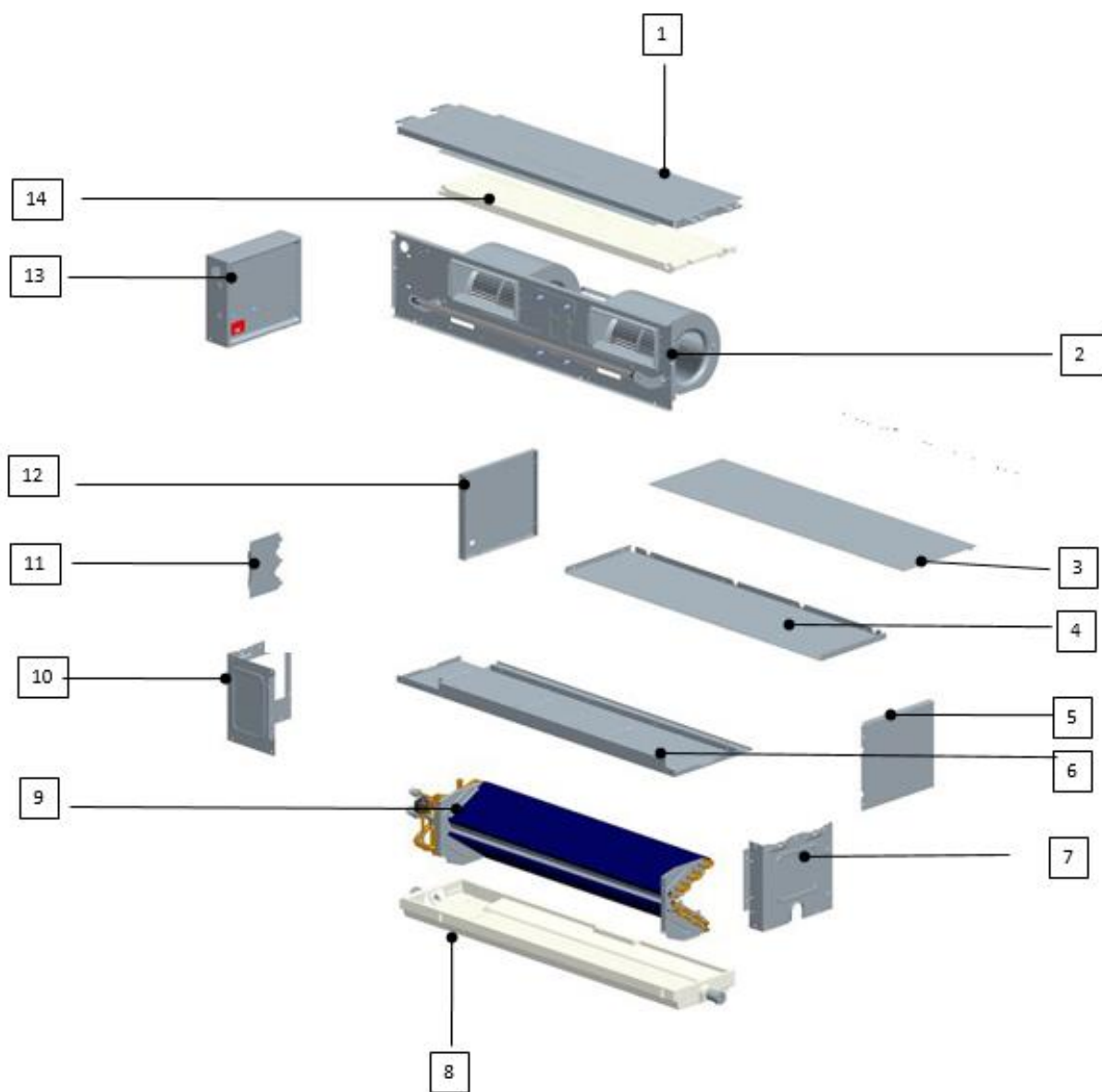
Item	Quantity	Shape	Usage
Installation manual for indoor unit	1	/	Must deliver to customer
Insulation sheath	2		Thermal insulation for the jointing part of piping
Strapping tapes	6		Bind up the wires and pipes
Round shape insulation termination points	6		For wiring
U shape insulation termination points	3		For wiring
Wired controller	1		For controlling indoor unit
EXV connection pipe	1		Connecting with EXV box and indoor unit liquid pipe
Wired controller connection wire group	1		For connecting wired controller to indoor PCB
Wired controller connection wire group	1		For connecting wired controller to indoor PCB
Bag	3		For bagging accessories

11.2 Local buy accessories.

Item	Specification		
	2.2KW/2.8kW	3.6KW/4.5KW/5.6kW	7.1kW
Liquid side copper pipe	Ø6.35mm*0.8mm		Ø9.53mm*0.8mm
Gas side copper pipe	Ø9.53mm*0.8mm	Ø12.7mm*1.00mm	Ø15.9mm*1.0mm
Drainage pipe	PVC		
Pipe insulation	Thickness ≥ 10mm		
Power cables	2*2.5 mm ² (When total cable length is ≤20m) 2*4.0 mm ² (When total cable length is ≤50m)		
Grounded cable	2.5 mm ²		
Signal cables	2*0.75 mm ² (AVP, RVP, RVVP)		

10 Exploded view

VELP008Q0A-GCV022, VELP010Q0A-GCV028, VELP012Q0A-GCV036, VELP015Q0A-GCV045, VELP019Q0A-GCV056, VELP024Q0A-GCV071



No.	Part name	Quantity	No.	Part name	Quantity
1	Top cover cotton component	1	9.1	Evaporator welding component	1
1.1	Top cover component	1	9.2	Impedance glue	2
1.2	Cover plate cotton 1	1	9.3	Protecting jacket insulating tube	1
1.3	Top air out cotton	1	9.4	Protecting jacket insulating tube	1
1.4	Top cover cotton	1	9.5	EXV coil	1
2	Fan motor component	1	10	Left plate cotton component	1
2.1	Fan fixed plate component	1	10.1	Left plate	1
2.2	Fan motor support	1	10.2	Left plate cotton	1
2.3	Volute fan	2	10.3	Left-right air outlet cotton	1
2.4	Fan motor	1	11	Pipe cover plate cotton component	1
2.5	Motor support connect plate	1	11.1	Left plate	1
2.6	Motor axis right cover	1	11.2	Pipe cover plate cotton	1
2.7	Motor axis left cover	1	12	Left air-return cotton component	1
3	Air-return box up panel	1	12.1	Air-return box left plate	1
4	Air-return box down panel	1	12.2	Left air-return plate cotton	1
5	Air-return box right panel	1	13	E-box component	1
6	Down panel cotton component	1	13.1	E-box base plate	1
6.1	Down panel component	1	13.2	E-box cover plate	1
6.2	Down air out cotton	1	13.3	PCB plastic base	1
6.3	Down panel cotton	1	13.4	Indoor PCB component	1
7	Right plate cotton component	1	13.5	Terminal	1
7.1	Right plate	1	13.6	Transformer	1
7.2	Right plate cotton	1	13.7	Terminal	1
8	Foam water pan	1	14	Up foam	1
9	Evaporator component	1			



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