

OMEGA VRF Fresh Air Ducted IDU

SUBMITTAL DATA

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

Job: _____
 Location: _____
 Schedule No.: _____
 System Designation: _____

Engineer: _____
 Architect: _____
 Date: _____
 For: Reference Review Construction

FEATURES

- 100% Fresh Air Unit
- High Static Pressure Design
- Water Overflow Protection
- Washable Filter
- Full DC Inverter Motors
- Intelligent Drainage Device



1. 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:

- 1) Nominal cooling capacities are based on the following conditions.
 - Outdoor temperature: 33°C DB, 28°C WB
 - Equivalent piping length: 8m in horizontal
- 2) Nominal heating capacities are based on the following condition.
 - Outdoor temperature: 0°C DB, -2.9°C WB
 - 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 1.5 m.
- 4) The above data may be changed without notice for future improvement on quality and performance.
- 5) 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%.

1. Specifications

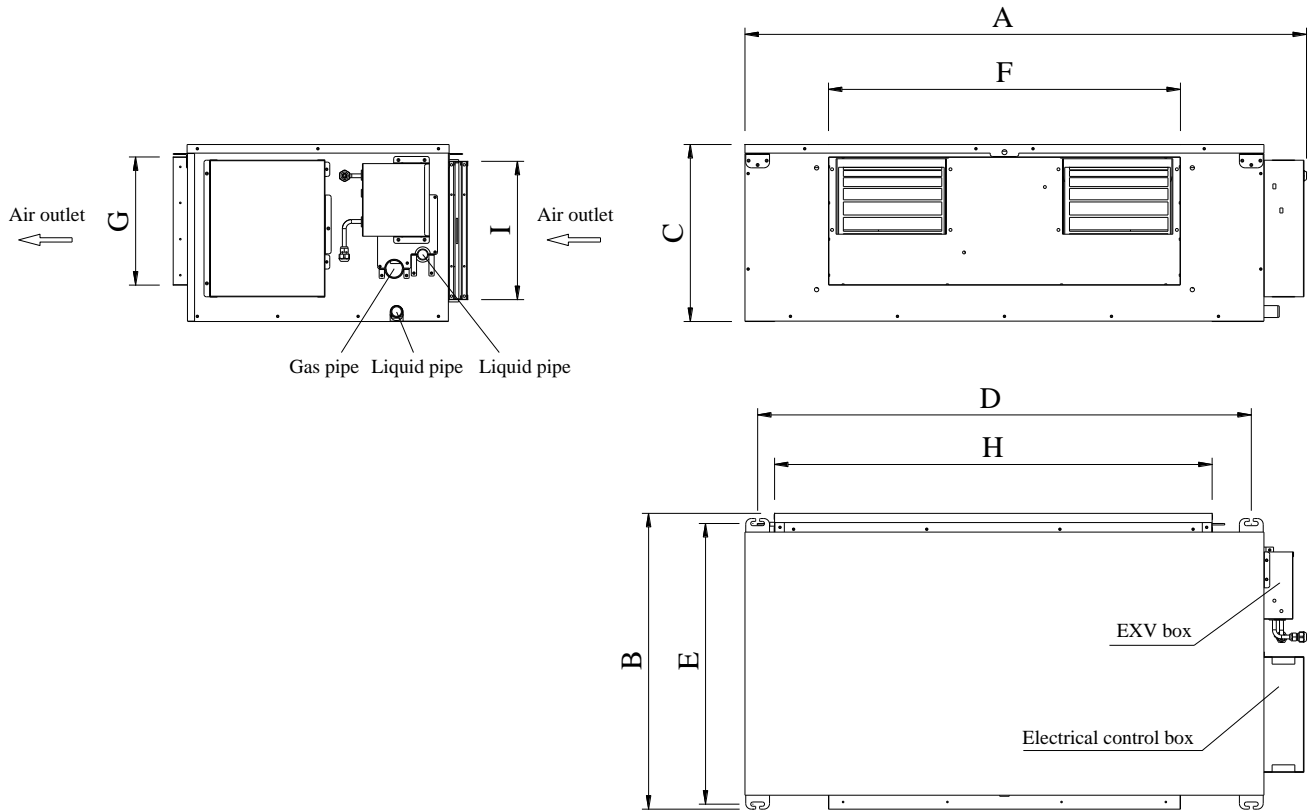
Model			VEFA150Q7A-GCV450	VEFA190Q7A-GCV560
Power supply			380-415V/3PH/50HZ	380-415V/3PH/50HZ
Capacity	Cooling	kW	45	56
	Heating	kW	31.4	39
Power Input		kW	1.3	2
Fan motor	Model		YX3-100L1-4-B3	YX3-100L1-4-B3
	Type		AC	AC
	Brand		Wannan	Wannan
	Input	W	2200	2200
	Capacitor	μF	/	/
	Speed	r/min	1430	1430
	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%.

2-DIMENSIONAL DRAWINGS - (MM)

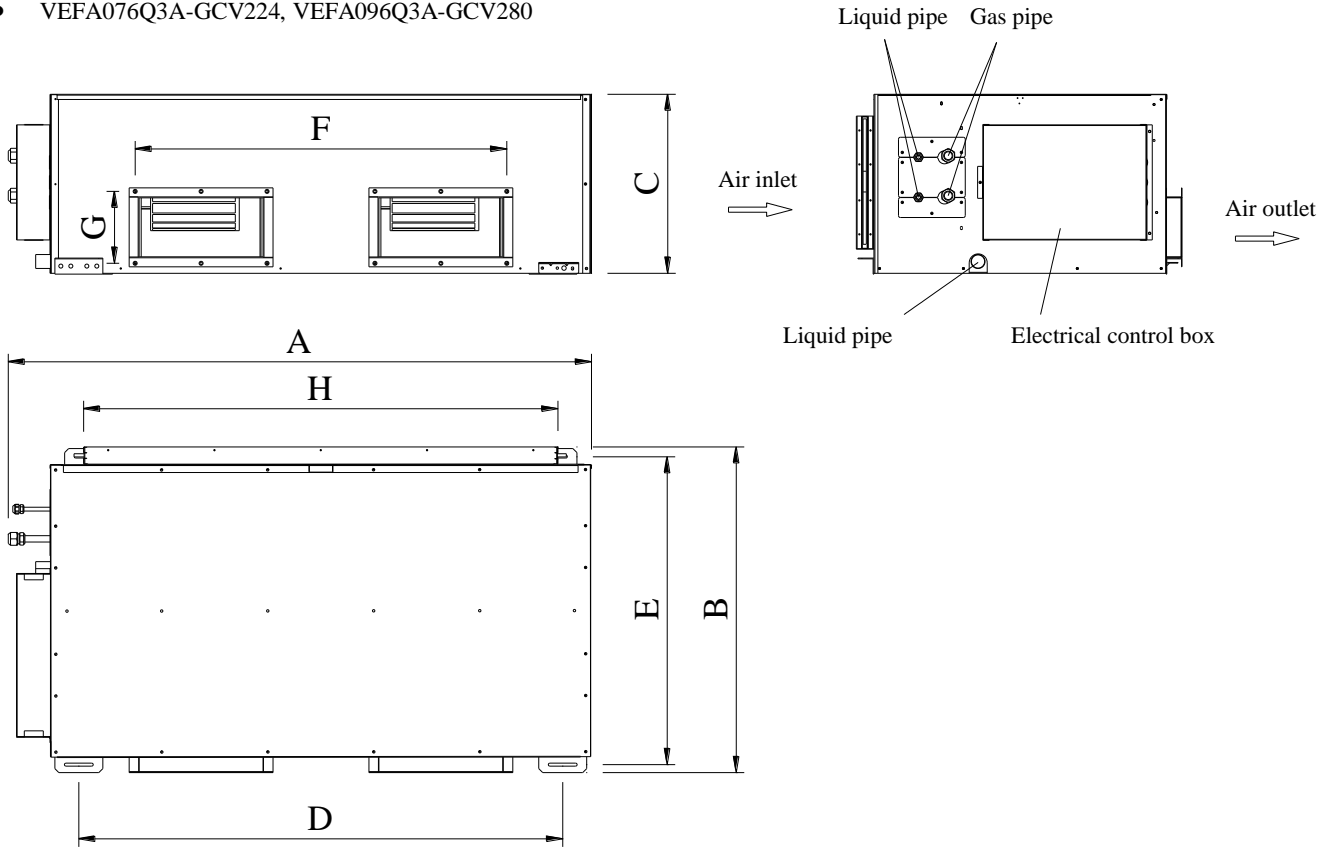
- VEFA048Q3A-GCV140



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

2-DIMENSIONAL DRAWINGS - (MM)

- 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

2-DIMENSIONAL DRAWINGS - (MM)

- VEFA150Q7A-GCV450, VEFA190Q7A-GCV560

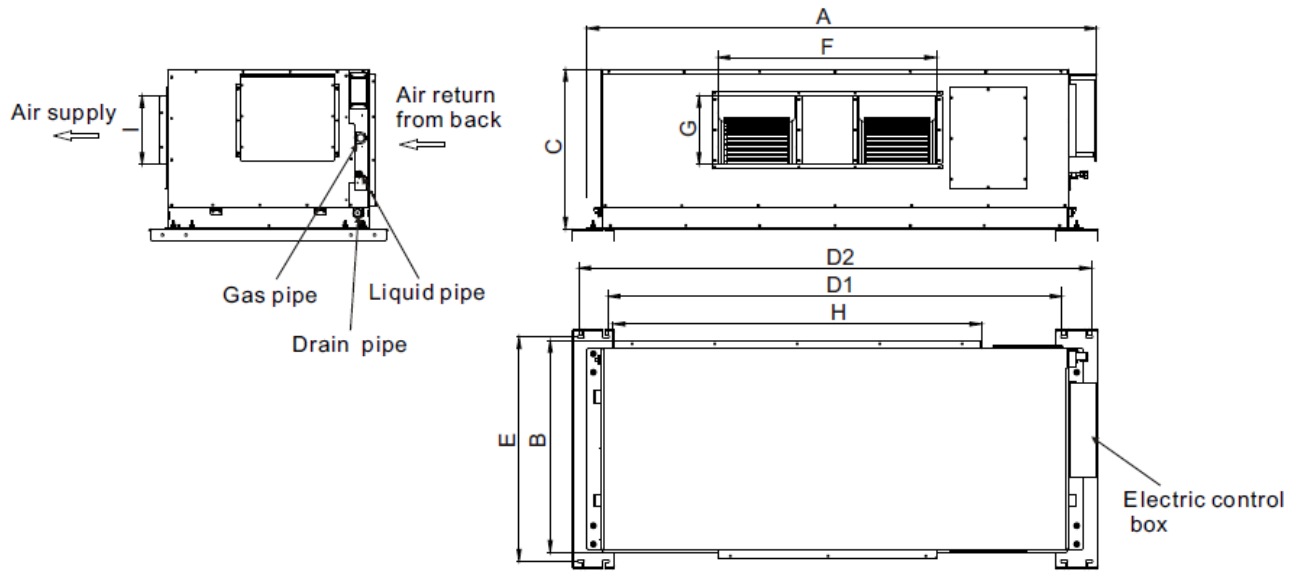


Table 3.10 Unit: mm

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

3- 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)