

# OMEGA Underside Air Intake Floor Standing

## SUBMITTAL DATA

**220-240V/1/50-60Hz**

Job: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Schedule No.: \_\_\_\_\_  
 System Designation: \_\_\_\_\_

Engineer: \_\_\_\_\_  
 Architect: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 For:      Reference      Approval      Review      Construction

### FEATURES

- Quiet Operation
- Multi-Functional Expansion Board
- Flexible Power Supply for Indoor Units
- High-Efficiency DC Motor
- Setting Temperature Adjustment
- Multiple Fan Speeds



## 1. Specifications

Table 1.1: VEFB008(010,012,015)TOA specifications

Model			VEFB008TOA-DWV022	VEFB010TOA-DWV028	VEFB012TOA-DWV036	VEFB015TOA-DWV045
Power supply			1 phase, 220-240V, 50/60Hz			
Cooling <sup>1</sup>	Capacity	kW	2.2	2.8	3.6	4.5
		kBtu/h	7.5	9.6	12.3	15.4
	Power input	W	35	35	40	44
Heating <sup>2</sup>	Capacity	kW	2.4	3.2	4	5
		kBtu/h	8.2	10.9	13.7	17.1
	Power input	W	35	35	41	46
External static pressure		Pa(F4)	0-10			
		Pa(F5)	0-10			
Fan motor	Type		DC			
	Number		1			
Indoor coil	Number of rows		2	2	3	3
	Tube pitch × row pitch	mm	22×19.05			
	Fin spacing	mm	1.6			
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Φ8 Inner-groove			
	Dimensions (L×H×W)	mm	580×38.1×176	580×38.1×176	580×57.2×176	800×57.2×176
	Number of circuits		2	2	4	4
Air flow rate <sup>3</sup>		m <sup>3</sup> /h	498/486/475/464/453/441/430		508/491/474/458/441/424/407	692/665/637/610/582/555/528
Sound pressure level <sup>4</sup>		dB(A)	32.5/32/31.5/31/30.5/30/29		35/34/33/32/31/30/29	38/37/36/35/34/33/32/31/30/29
Unit	Net dimensions <sup>5</sup> (W×H×D)	in(mm)	40 1/8 x 19 1/2 x 7 7/8 (1020×495×200)			48 7/8 x 19 1/2 x 7 7/8 (1240×495×200)
	Packed dimensions (W×H×D)	in(mm)	44 1/21 x 23 1/2 x 11 1/21 (1125×595×285)			52 7/8 x 23 3/8 x 11 1/21 (1345×595×285)
	Net/Gross weight	lbs(kg)	46.52 (21.1)/59.08 (26.8)		48.28(21.9)/60.85(27.6)	57.98(26.3)/60.85(32.4)
Refrigerant type			R410A/R32			
Design pressure (H/L)		Mpa	4.4/2.6			
Refrigerant piping	Liquid/Gas side	mm	Φ6.35/Φ12.7			
Drain piping		mm	OD Φ18.5			

**Notes:**

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest to the lowest, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured at 1m in front of the unit and at a height of 1.5m in a anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

## 1. Specifications

Table 1.2: VEFB019(024,027)TOA specifications

Model			VEFB019TOA-DWV056	VEFB024TOA-DWV071	VEFB027TOA-DWV080
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling <sup>1</sup>	Capacity	kW	5.6	7.1	8.0
		kBtu/h	19.1	24.2	27.3
	Power input	W	45	53	62
Heating <sup>2</sup>	Capacity	kW	6.3	8.0	9.0
		kBtu/h	21.5	27.3	30.7
	Power input	W	47	57	64
External static pressure		Pa(F4)	0~10		
		Pa(F5)	0~10		
Fan motor	Type	DC			
	Number	1			
Indoor coil	Number of rows		2	3	3
	Tube pitch × row pitch	mm	22×19.05		
	Fin spacing	mm	1.6		
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ8 Inner-groove		
	Dimensions (L×H×W)	mm	920×38.1×264	920×57.2×264	920×57.2×264
	Number of circuits		3	5	5
Air flow rate <sup>3</sup>		m <sup>3</sup> /h	811/785/759/732/706/680 /653	930/895/860/825/790/755/721	
Sound pressure level <sup>4</sup>		dB(A)	35/34.5/34/33/32.5/32/31	39.5/39/38/37/36/35/34	
Unit	Net dimensions <sup>5</sup> (W×H×D)	in(mm)	53 1/2 x 23 1/21 x 7 7/8 (1360×591×200)		
	Packed dimensions (W×H×D)	in(mm)	57 5/8 x 27 3/8 x 11 1/21 (1465×695×285)		
	Net/Gross weight	lbs(kg)	70.77 (32.1)/86.86 (39.4)	73.41 (33.3)/90.61 (41.1)	73.41 (33.3)/90.61 (41.1)
Refrigerant type			R410A/R32		
Design pressure (H/L)		Mpa	4.4/2.6		
Refrigerant piping	Liquid/Gas side	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.9	
Drain piping		mm	OD Φ18.5		

**Notes:**

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest to the lowest, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured at 1m in front of the unit and at a height of 1.5m in anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

**2-DIMENSIONAL DRAWINGS - (MM)**

Figure 2.1: VEFB series Exposed Floor Standing dimensions

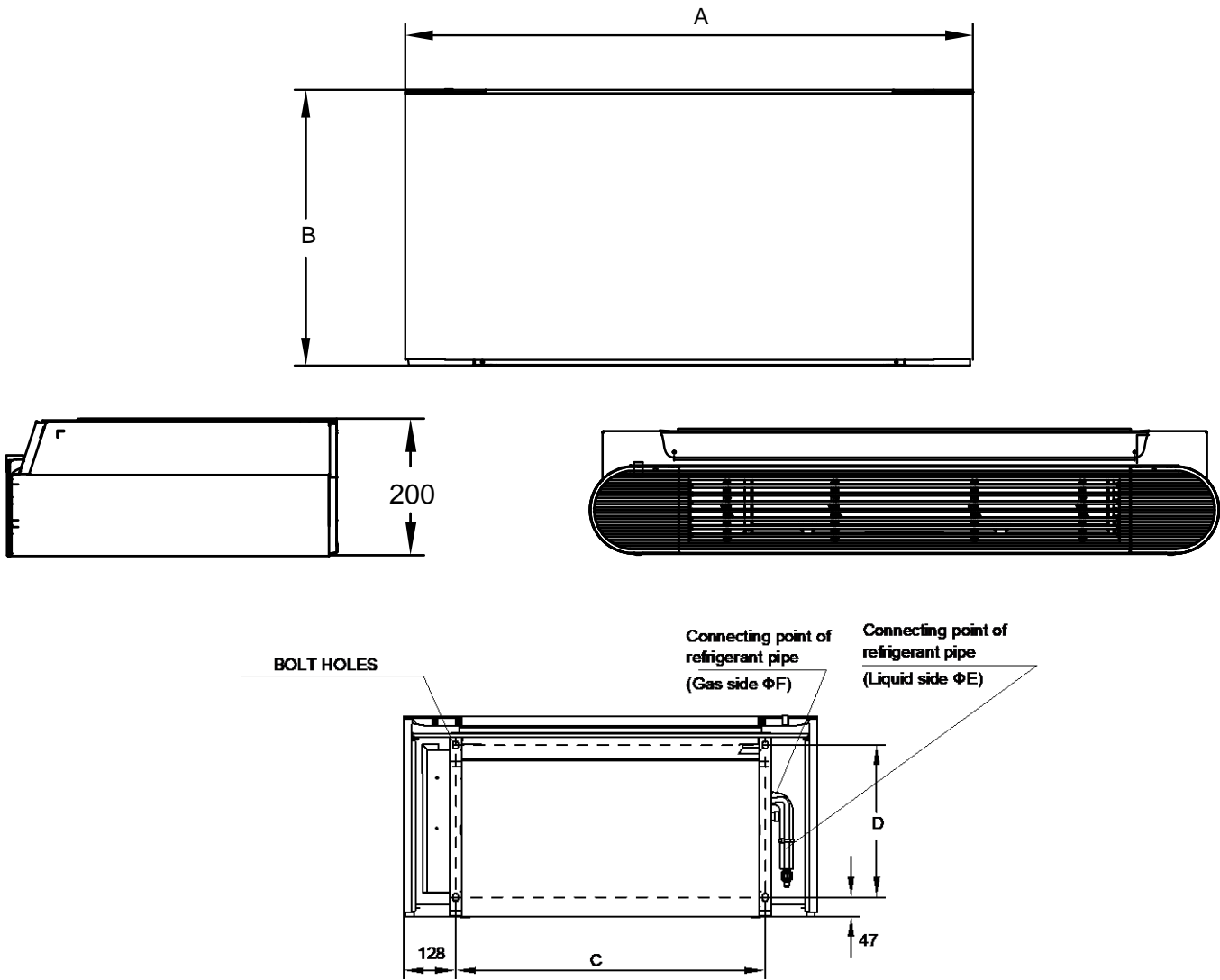


Table 2.1: VEFB series Exposed Floor Standing dimensions

Model	Dimensions(mm)			
	A	B	C	D
VEFB008T0A-DWV022 VEFB010T0A-DWV028 VEFB012T0A-DWV036	1020	495	764	375
VEFB015T0A-DWV045	1240	495	984	375
VEFB019T0A-DWV056 VEFB024T0A-DWV071 VEFB027T0A-DWV080	1360	591	1104	391

Table 2.2: VEFB series Exposed Floor Standing piping connections

Model	E(mm)	F(mm)
VEFB008T0A-DWV022 VEFB010T0A-DWV028 VEFB012T0A-DWV036 VEFB015T0A-DWV045 VEFB019T0A-DWV056	6.35	12.7
VEFB024T0A-DWV071 VEFB027T0A-DWV080	9.52	15.9

**3-Electrical Characteristics**

Table 3.1: Floor Standing electrical characteristics

Model	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (W)	FLA
VEFB008T0A-DWV022	50/60	220-240	198	264	0.3	15	50	0.5
VEFB010T0A-DWV028	50/60	220-240	198	264	0.3	15	50	0.5
VEFB012T0A-DWV036	50/60	220-240	198	264	0.3	15	50	0.5
VEFB015T0A-DWV045	50/60	220-240	198	264	0.3	15	50	0.5
VEFB019T0A-DWV056	50/60	220-240	198	264	0.4	15	60	0.6
VEFB024T0A-DWV071	50/60	220-240	198	264	0.4	15	60	0.6
VEFB027T0A-DWV080	50/60	220-240	198	264	0.4	15	60	0.6

Abbreviations:  
MCA: Minimum Circuit Amps  
MFA: Maximum Fuse Amps  
FLA: Full Load Amps



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