CITYMULTI®

TPEFYW027MA1W0A
BTU/H MEDIUM STATIC HVRF DUCTED

Job Name:

System Reference: Date:

GENERAL FEATURES

- Dual set point functionality
- Multiple fan speed settings
- Auto fan mode
- 9-7/8” (250mm) high for low ceiling heights
- uilt-in condensate lift; lifts to 27-9/16” (700 mm)
- Ducted fan coil supporting multiple configurations for flexible installation
- Hydronic based indoor coil
- Built-in Manual Air Vent

Specifications			System
Unit Type			TPEFYW027MA1W0A
Cooling capacity (Nominal)[1]		BTU/H	27,000
Heating capacity (Nominal)[1]		BTU/H	30,000
Power source		Voltage, Phase, Hertz	208/230V, 1-phase, 60 Hz
Power Consumption	Cooling	kW	0.142
	Heating	kW	0.140
Current	Cooling	A	1.24/1.12
	Heating	A	1.24/1.12
MCA		A	2.88/2.88
Maximum Overcurrent Protection (MOCP)		A	15
Recommended Fuse Size		A	15
External finish			Galvanized Steel Plate
External Dimensions		In. [mm]	43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250]
Net weight		Lbs [kg]	67 [30]
Heat exchanger			Cross fin (Aluminum fin and copper tube)
Fan	Type x quantity		Sirocco fan x 2
	External Static pressure	in.WG	Selectable; 0.14, 0.2, 0.28, 0.4, 0.6 In. WG; factory set to Factory set to 0.2 In. WG
	Airflow rate	CFM	618–742–883
	Motor type		DC brushless motor
	Motor Output	kW	0.121
	Motor FLA	A	1.4
Sound pressure level (Measured in anechoic room)		dB(A)	31–35–39
Air filter			PP Honeycomb fabric (washable)
Diameter of drain pipe		In. [mm]	O.D. 1-1/4 [32]
Drain lift mechanism		In. [mm]	27-9/16 [700]
Connectable HBC Controller			CMB-WP-NU-AA, CMB-WP-NU-AB
Design Pressure		PSI (Mpa)	145/1
Diameter of Water Pipe Connections (O.D.)	Supply Connection (O.D.)	mm	22
	Return Connection (O.D.)	mm	22
Water Volume		Gallons (Liters)	0.554 (2.1)

NOTES:
Cooling | Indoor: 81° F (27° C) DB / 66° F (19°C) WB; Outdoor 95° F (35° C) DB
Heating | Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB

Specifications are subject to change without notice.

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INDOOR UNIT ACCESSORIES: TPEFYW027MA1W0A

Control Interface	Deluxe Wired MA Remote Controller	☐ TAR-41MAAU
Wired Remote Controller	Simple MA Remote Controller†	☐ TAC-YT53CRAU-J
	Smart ME Remote Controller - Backlit touchscreen	☐ TAR-U01MEDU-K
	Touch MA Controller†	☐ TAR-CT01MAU-SB
Wireless Remote Controller	Wireless MA Remote Controller	☐ TAR-FL32MA-E
	Wireless Remote Contoller	☐ PAR-SL101A-E
Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	☐ X87-721
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐ X87-711
	Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor	☐ X87-835
	Blue Diamond Alarm Extension Cable—6.5 Ft.	☐ C13-192
	Blue Diamond MultiTank — collection tank for use with multiple pumps	☐ C21-014
	Blue Diamond Sensor Extension Cable — 15 Ft.	☐ C13-103
	Drain Pan Level Sensor/Control	☐ SS610E
	Sauermann Condensate Pump	☐ SI30-230
Control Interface	3-Pin Connector	☐ PAC-715AD
	CN24 Relay Kit	☐ CN24RELAY-KIT-CM3
	Connector and wire for Operation status/error using CN51	☐ PAC-725AD
Disconnect Switch	(30A/600V/UL) [fits 2” X 4” utility box] - White	☐ TAZ-MS303W
Filter Box	Filter Box with MERV 13 Filter	☐ FBM2-3-A
HBC Controller	Hybrid VRF Main BC 16 Port	☐ TCMBM1016VA11N4
	Hybrid VRF Main BC 8 Port	☐ TCMBM0108VA11N4
	Hybrid VRF Sub BC 16 Port	☐ TCMBS1016VB11N4
	Hybrid VRF Sub BC 8 Port	☐ TCMBS0108VB11N4
HVRF Accessories	(2x) Isolation Ball Valve and (2x) 22mm Compression Fitting	☐ KIT2-NA10883-CAL
	25mm Isoflow Multi, 25m Coil w/ 1” Titan	☐ 13630061001-REH
	25mm PVDF SDR11 Sleeve (Box QTY 50)	☐ 11803271001-REH
	25mm SDR11 Coupling (Bag QTY 10)	☐ 11690101001-REH
	25mm SDR11 Elbow (Bag QTY 10)	☐ 11691261001-REH
	25mm SDR11 x 3/4” FPT Fitting (Bag QTY 1)	☐ 15012451001-REH
	25mm SDR11 x 3/4” MPT Fitting(Bag QTY 10)	☐ 15012461001-REH
	25mm x 25mm x 25mm SDR11 Tee(Bag QTY 10)	☐ 11690561001-REH
	25mm x 25mm x 25mm SDR11 Tee(Bag QTY 10)	☐ 15012471001-REH
	40mm Isoflow Multi, 5m Stick w/ 1.5” Titan	☐ 13630071001-REH
	40mm PVDF SDR11 Sleeve (Box QTY 25)	☐ 11803291001-REH
	40mm SDR11 Coupling (Bag QTY 5)	☐ 11690151001-REH
	40mm SDR11 Elbow (Box QTY 1)	☐ 11691301001-REH
	40mm SDR11 x 3/4” MPT Fitting (Box QTY 1)	☐ 15012481001-REH
	40mm x 40mm x 25mm SDR11 Tee (Bag QTY 1)	☐ 11690691001-REH
	Compact Discal AAV w/ Hydroscopic Cap and Drain Plug	☐ KIT3-NA10884-CAL
	Copper Press Tailpieces (3/4”)	☐ KIT5-NA10881-CAL
	Drain Valve w/ Brass NPT T-Fitting	☐ KIT4-NA10885-CAL
	RAUTOOL A-Light2 Kombi Tool KIT	☐ 11094491001-REH

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INDOOR UNIT DIMENSIONS: TPEFYW027MA1W0A

TPEFYW06, 08, 12, 15, 18, 24, 27, 30, 36, 48MA1W0A

Unit: mm (in.)

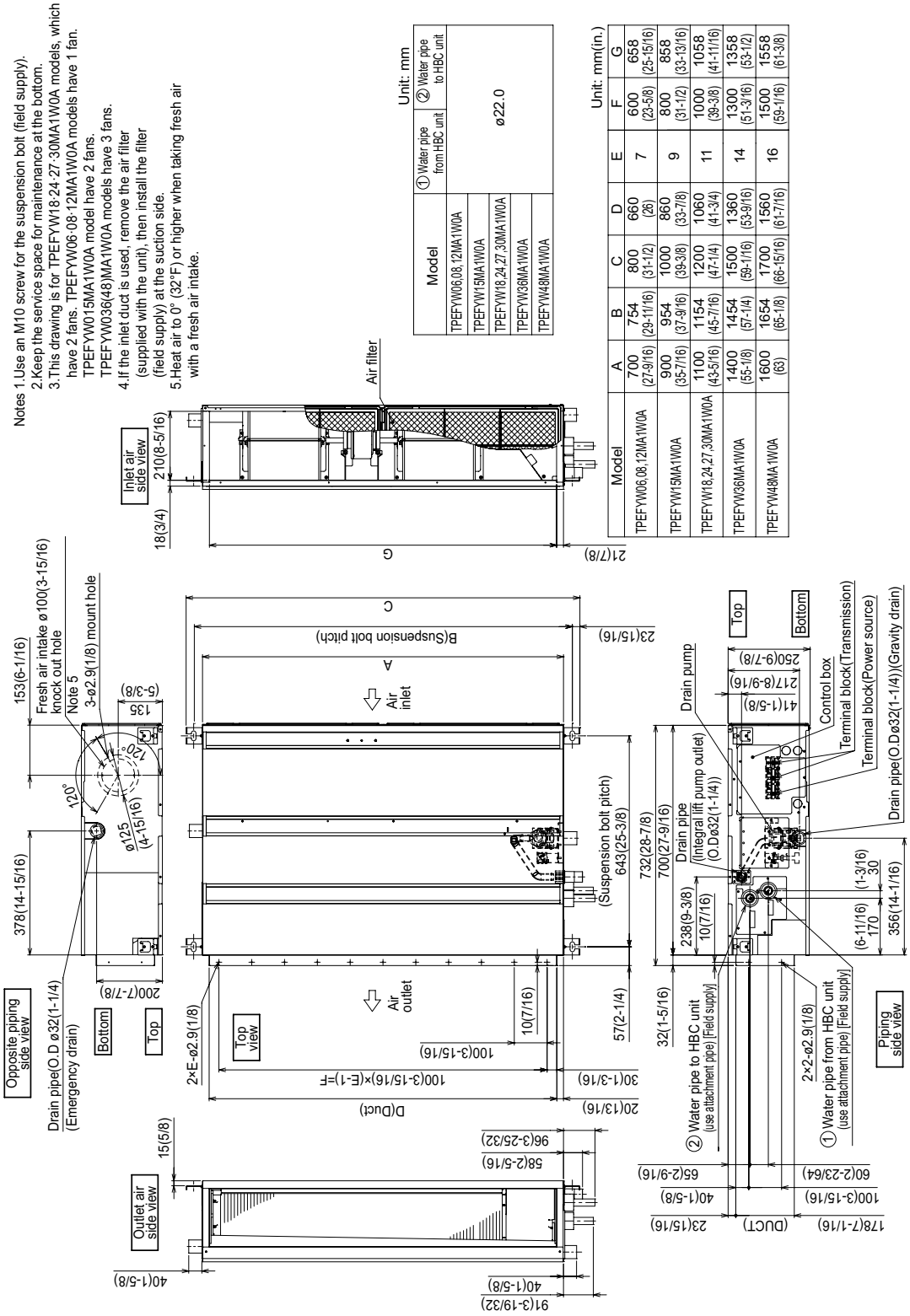
Notes
1. Use an M10 screw for the suspension bolt (field supply).
2. Keep the service space for maintenance at the bottom.
3. This drawing is for TPEFYW18·24·27·30MA1W0A models, which have 2 fans. TPEFYW06·08·12MA1W0A models have 1 fan. TPEFYW015MA1W0A model have 2 fans. TPEFYW036(48)MA1W0A models have 3 fans.
4. If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.
5. Heat air to 0° (32°F) or higher when taking fresh air with a fresh air intake.

Unit: mm

Model	① Water pipe from HBC unit	② Water pipe to HBC unit
TPEFYW06,08,12MA1W0A	ø22.0	
TPEFYW015MA1W0A		
TPEFYW18,24,27,30MA1W0A		
TPEFYW036MA1W0A		
TPEFYW048MA1W0A		

Unit: mm(in.)

Model	A	B	C	D	E	F	G
TPEFYW06,08,12MA1W0A	700 (27-9/16)	754 (29-11/16)	800 (31-1/2)	660 (26)	7	600 (23-5/8)	658 (25-15/16)
TPEFYW015MA1W0A	900 (35-7/16)	954 (37-9/16)	1000 (39-3/8)	860 (33-7/8)	9	800 (31-1/2)	858 (33-13/16)
TPEFYW18,24,27,30MA1W0A	1100 (43-5/16)	1154 (45-7/16)	1200 (47-1/4)	1060 (41-3/4)	11	1000 (39-3/8)	1058 (41-11/16)
TPEFYW036MA1W0A	1400 (55-1/8)	1454 (57-1/4)	1500 (59-1/16)	1360 (53-9/16)	14	1300 (51-3/16)	1358 (53-1/2)
TPEFYW048MA1W0A	1600 (63)	1654 (65-1/8)	1700 (66-15/16)	1560 (61-7/16)	16	1500 (59-1/16)	1558 (61-3/8)



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