TOSOT

R32 SINGLE/MULTI- ZONE HIGH STATIC DUCTED SYSTEM

18,000 BTU / H HIGH STATIC DUCTED

SUBMITTAL DATA: TFH18D32AI+TWH18PD32AO

Job Name	Location		Date	
Purchaser	Engineer			
Submitted To	For	Reference	Approval	Construction
Unit Designation	Schedule No.			

AHRI CERTIFIED REF	218001435
ENERGY STAR No.	4515436





XE72-44/E (Standard)



YAW1F9 Cool-only (Optional)



XE71-00/E (Optional)



YBE1FB1F (Optional)



SYSTEM RATINGS		INDOOR UNIT DATA	
Cooling		**Fan Motor**	
Rated Capacity @ 95° F	18,000 BTU/H	Type	Cross-flow
Capacity Range	9,078-25,695 BTU/H	Ext. Static Pressure (max/std)	0.8/0.36 Inwc
Power Input	1,315 W	Output Power	200 W
Power Input (Min/Max)	130 / 2,300 W	FLA	0.7 A
SEER2 / EER2	22.50 / 14.00	Fan Speeds	4
Heating		Air flow (Min/Max)	288/589 CFM
Rated Capacity @ 47° F	18,000 BTU/H	Dehumidification	3.80 pt/hr
Capacity Range	8,988-23,884 BTU/H	**Sound Pressure Level**	
Rated Capacity @ 17°F	14,700 BTU/H	Min / Max	25 / 41 dB(A)
Rated Capacity @ 5°F	15,000 BTU/H	**OUTDOOR UNIT DATA**	
Power Input	1,349W	**Compressor**	
Power Input (Min/Max)	230 / 2,350 W	Type	DC Inverter Rotary
HSPF2 (Region IV)	9.0	RLA	10.35 A
COP @47°F / @5°F	3.95 / 1.90	**Fan Motor**	
Operating Range		Output Power	60 W
Cooling	0°F ~ 122°F	RLA	0.35 A
	-18°C ~ 50°C	Sound Pressure Level	54 dB(A)
Heating	-22°F ~ 86°F	**Refrigerant Piping Data**	
	-30°C ~ 30°C	Liquid Pipe Size (OD)	1/4-in
Power Supply		Gas Pipe Size (OD)	1/2-in
Rated	208/230 V, 1 Phase, 60 Hz	Connection Method	Flared
Voltage Range	187 - 253 V	Pre-Charged R32 Amount	40.6 oz
Main Power Wire Size	Per Local Code	Additional Charge	0.2 oz/ft
Wire Size between IDU & ODU	14-4 AWG	Pre-Charge Length	25-ft
MCA	16 A	MAX Refrigerant Pipe Length	131-ft
MOCP/Max Breaker Size	20 A	MIN Refrigerant Pipe Length	10-ft
Moisture Protection	IPX4	MAX Refrigerant Pipe Height Difference	82-ft

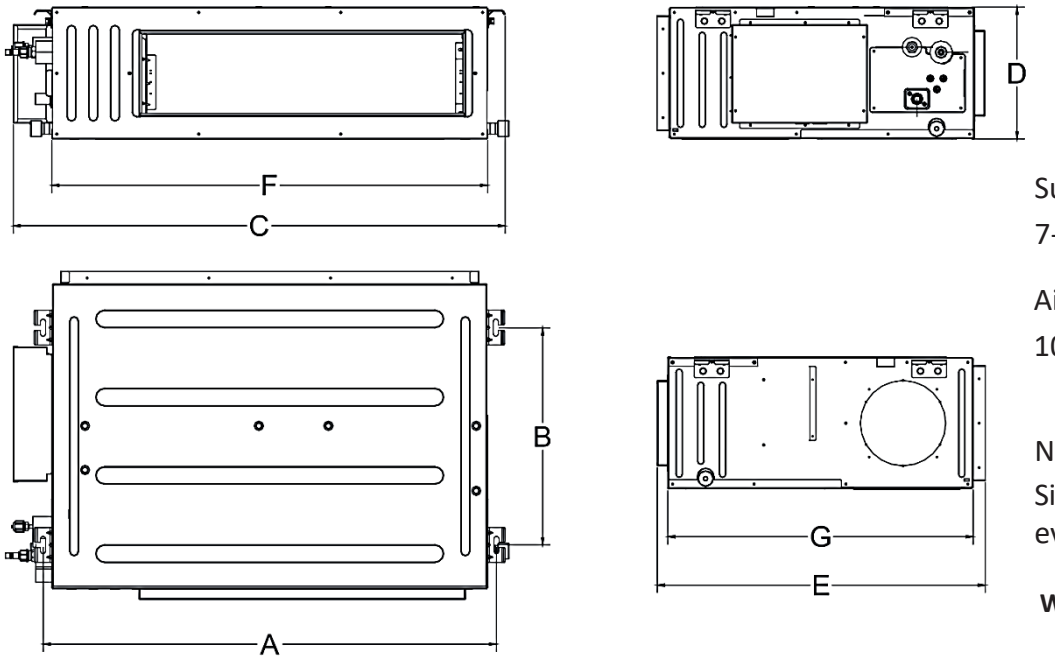
FEATURES & FUNCTION SUMMARY: TFH18D32AI+TWH18PD32AO

SYSTEM FEATURES	
Selectible External Satic Pressure	8 Selections
Multi Fan Speeds	4 Speeds
Indoor Fan Type	Centrifugal
Artificial Intelligence for Saving Energy	Version 1.0
Wired Controller Interface	YES
Auxiliary Electrical Heater	NO
Ventilation (Outdoor Air)	YES
Condensate Pump	YES
Overflow Cut-off Switch	YES
Electronic Expansion Valve	In Outdoor Unit
Coil Construction	Copper Tube-Aluminum Fin
Indoor Fin Coating (Blue)	Acrylic Resin/Anti-Corrosion
A2L Refrigerant Leakage Detector	Optional
WIRED CONTROLLER & REMOTE CONTROLLER FUNCTIONS	
Auto Mode	YES
Auto Fan	YES
Turbo Cooling	YES
Auto Swing (Horizontal/Vertical Auto Swing)	NO
Dry Mode	YES
Dry Anti-Mildew (X-Fan) Mode	YES
Energy Saving Mode	YES
I Feel Function	NO
Lock on Remote Controller	YES
Quiet Mode	YES
Room Temperature Display ※	YES
Normal Sleep Mode	YES
Timer Mode	YES
LCD Back Light on Remote Controller	YES
Turbo Mode	YES
Cooling Only Controller	Optional with Remote YAW1F9
Freeze Guard/Holiday Mode (46°F/8°C)	YES
24Vac Signal 3rd party Backup Heater Output	Optional with XE71-00/E
Wifi Control	Standard with XE72-44/E

※ Available on XE72-44/E with [Mode]+[▲] during OFF status

DIMENSIONAL SPECIFICATIONS: TFH18D32AI

UNIT DIMENSION



Supply Air Outlet Size:
7-5/8” x 29-9/16” x 1”(Deep)

Air Return Inlet Size:
10-3/8” x 37-3/4” x 1-1/8”(Deep)

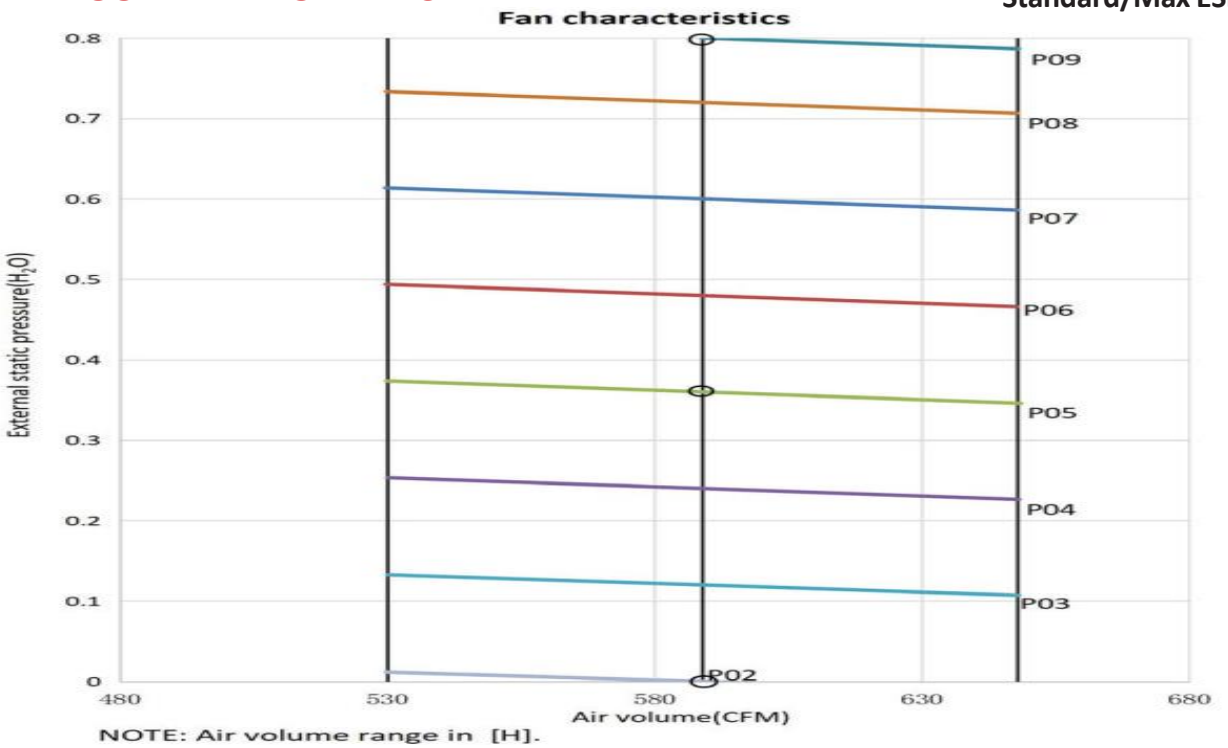
Note:
Size refrigerant lines based on evaporator port sizes

Weight (Net/Gross) : 93/107 lbs

Dimensions (inch)							
Capacity	A	B	C	D	E	F	G
09/12K	29 9/64	19 11/16	32 43/64	11 13/16	29 11/16	27 9/16	27 9/16
18/24K	40 15/16	19 11/16	44 31/64	11 13/16	29 11/16	39 3/8	27 9/16

INDOOR FAN PEFORMANCE DATA

Standard/Max ESP: 0.36/0.8 inwg

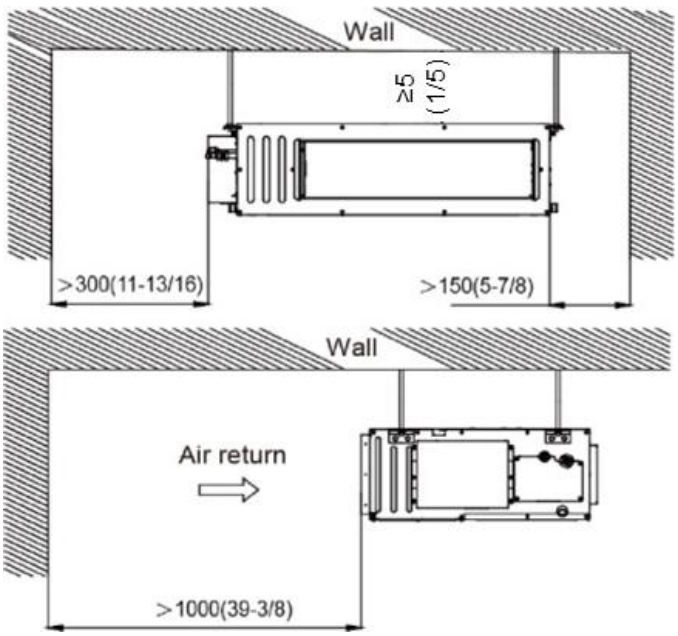


NOTE: Air volume range in [H].

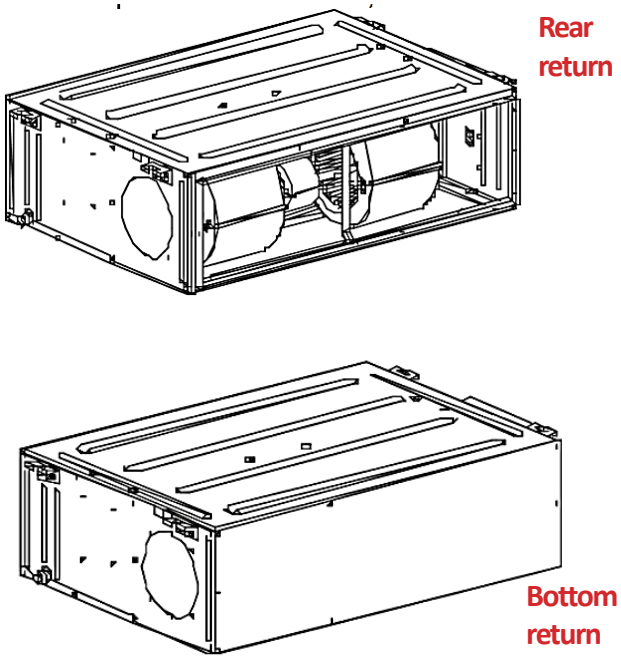
DIMENSIONAL SPECIFICATIONS: TFH18D32AI

MINIMUM SPACING REQUIREMENTS

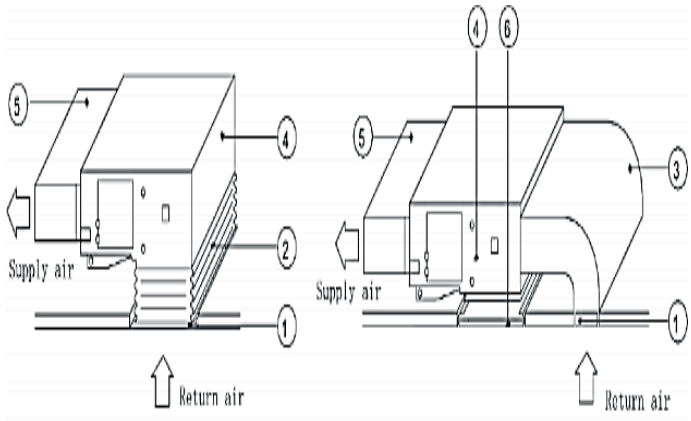
Units: mm(inch)



FLEXIBLE AIR RETURN ADJUSTABLE



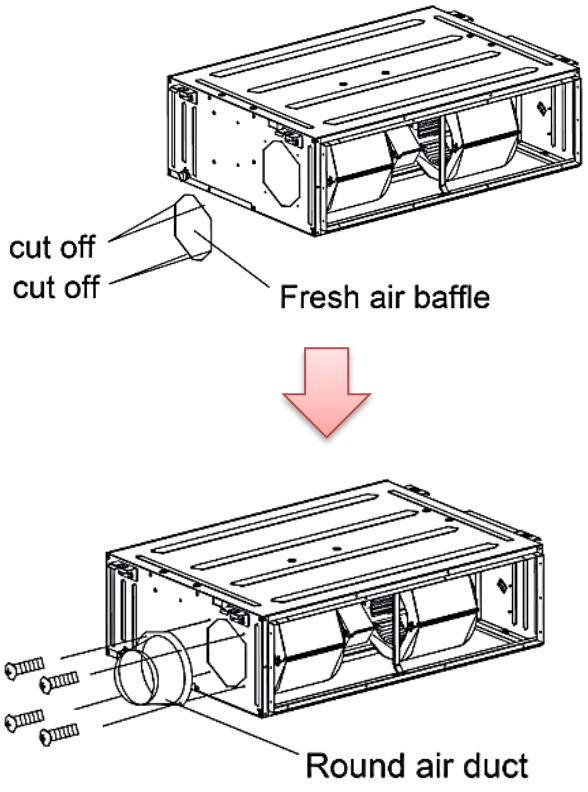
RETURN AIR CONFIGURATIONS



No.	Name
1	Return Air Inlet(with filter)
2	Canvas
3	Return Air Duct

No.	Name
4	Indoor unit
5	Supply Air Duct
6	Grille

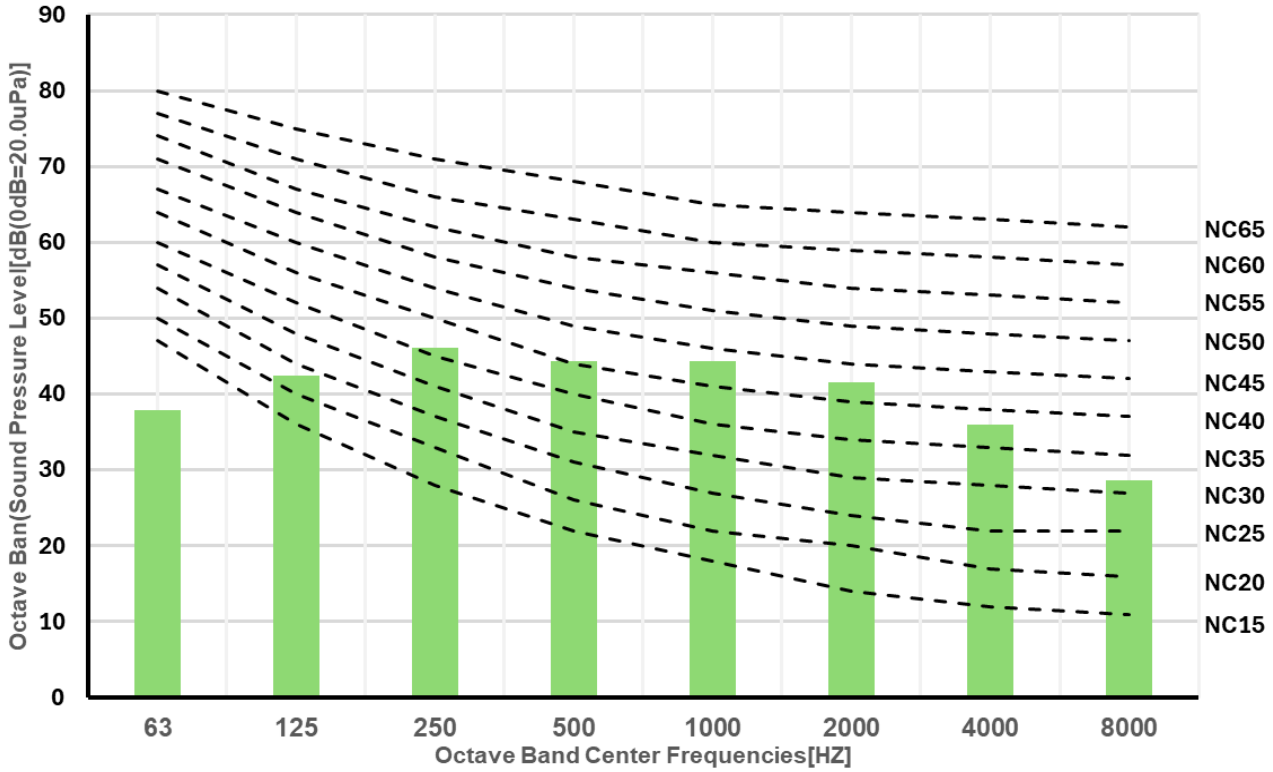
FRESH AIR PIPE INSTALLATION



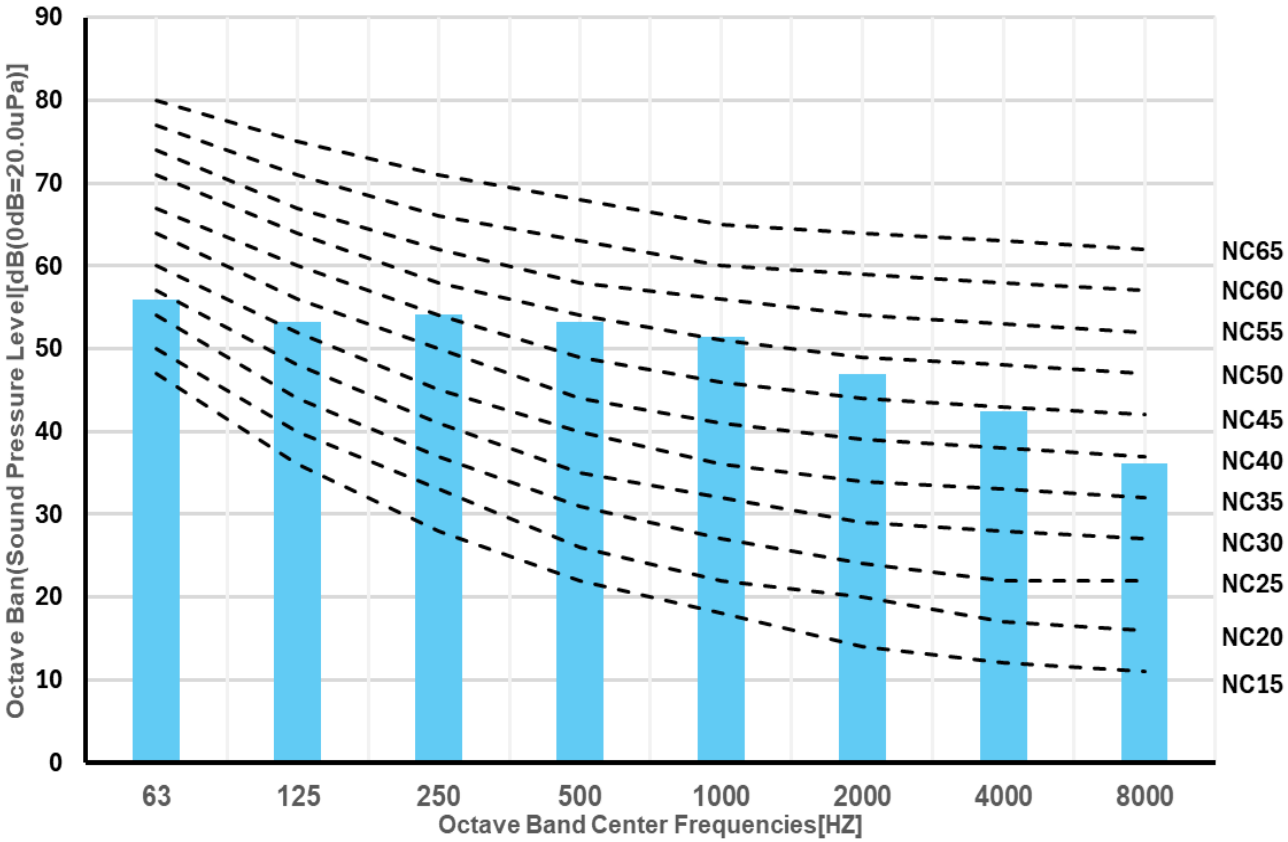
SOUND POWER DATA: TFH18D32AI+TWH18PD32AO

ACOUSTIC OCTAVE-BAND SOUND POWER DATA

INDOOR UNIT



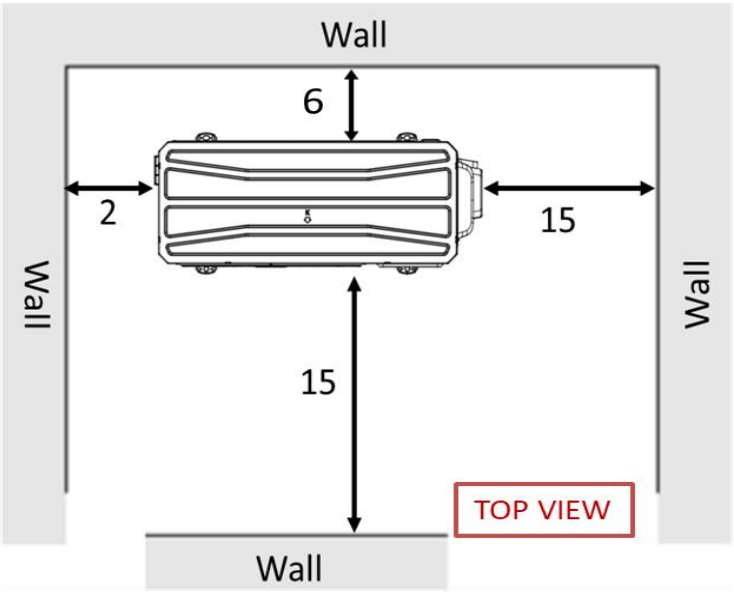
OUTDOOR UNIT



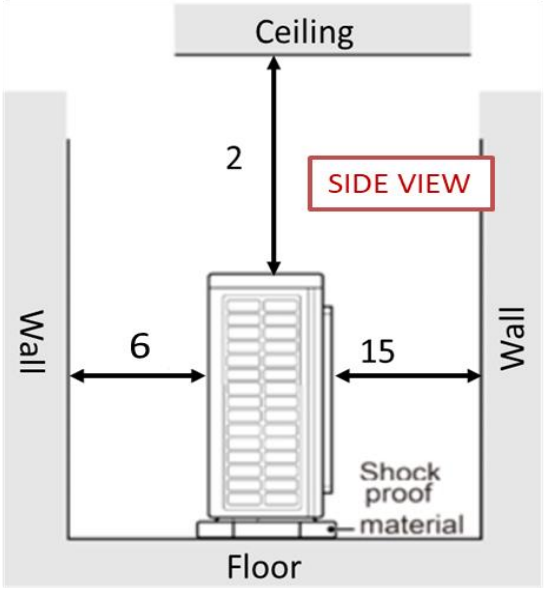
DIMENSIONAL SPECIFICATIONS: TWH18PD32AO

MINIMUM SPACING REQUIREMENTS

Unit: inch



The ceiling should be open

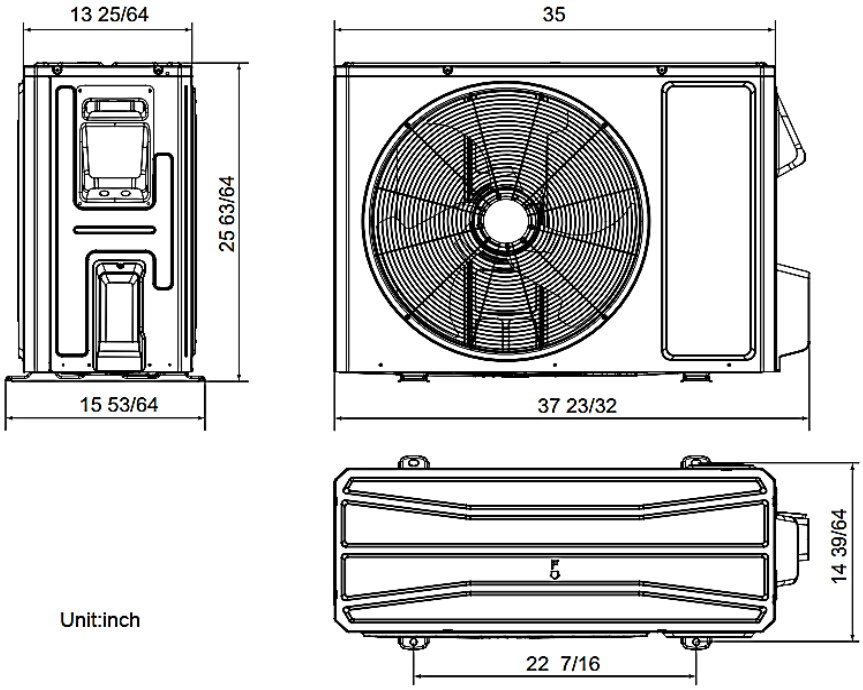


Either left or right side should be open

Note:

1. Apply the value in the brackets to achieve best performance
2. Wall height on air outlet side ≤ 50inch

OUTDOOR UNIT DIMENSIONS



Unit:inch

Weight (Net/Gross) 95 /105 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared

Notes:

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Copper Conductors Wire
2. Power wiring cable size must comply with applicable national and local codes
3. Test conditions are based on AHRI 210/240.