R32 HEAT / COOL

MORE THAN COOLING & HEATING, ZENO

12,000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

SUBMITTAL DATA: TWH12ZD32AI & TWH12ZD32AO

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





XE72-44/E (Optional) XE71-00/E (Optional) YAY1FF (Standard) YAW1F9 (Optional)



- ❑ Easy installation and cleaning
- ❑ Fast cooling with meticulous care
- ❑ WIFI included
- ❑ Wired controller (Optional)
- ❑ 7 indoor fan speeds
- ❑ Copper tube/Aluminum fins Acrylic resin
- ❑ Anti-corrosion both inside and outside
- ❑ Room/Outdoor temperature display
- ❑ 24Vac Signal 3rd party Backup Control (Optional with XE71-00/E)

SYSTEM RATINGS		INDOOR UNIT DATA	
Cooling		**Fan Motor**	
Rated Capacity @ 95° F	12,000 BTU/H	Type	Cross-flow
Capacity Range	2,388-12,710 BTU/H	Output Power	20 W
Power Input	1406 W	FLA	0.35 A
Power Input (Min/Max)	140 / 1,560 W	Fan Speeds	7
SEER2 / EER2	17.0 / 8.55	Air flow (Min/Max)	159/365 CFM
Heating		**Sound Pressure Level**	
Rated Capacity @ 47° F	12,000 BTU/H	Cooling (Low/High)	22 / 42 dB(A)
Capacity Range	2,217-13,477 BTU/H	Heating (Low/High)	34 / 41 dB(A)
Rated Capacity @ 17°F	9,700 BTU/H	**Dehumidification**	2.96 pt/hr
Rated Capacity @ 5°F	9,500 BTU/H	**OUTDOOR UNIT DATA**	
Power Input	1212 W	**Compressor**	
Power Input (Min/Max)	200 / 1,820 W	Type	DC Inverter Rotary
HSPF2 (Region IV)	8.0	RLA	6.5 A
COP @47°F / @5°F	2.90 / 1.75	**Fan Motor**	
Operating Range		Output Power	30 W
Cooling	0°F ~ 118°F	RLA	0.65 A
	-18°C ~ 48°C	**Sound Pressure Level**	52 dB(A)
Heating	-13°F ~ 75°F	**Refrigerant Piping Data**	
	-25°C ~ 24°C	Liquid Pipe Size (OD)	1/4-in
Power Supply		Gas Pipe Size (OD)	3/8-in
Rated	208/230 V, 1 Phase, 60 Hz	Connection Method	Flared
Voltage Range	187 - 253 V	Pre-Charged R32 Amount	22.9 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	10 A	MAX Refrigerant Pipe Length	66-ft
MOCP/Max Breaker Size	15 A	MIN Refrigerant Pipe Length	10-ft
Moisture Protection	IPX4	MAX Refrigerant Pipe Height Difference	40-ft

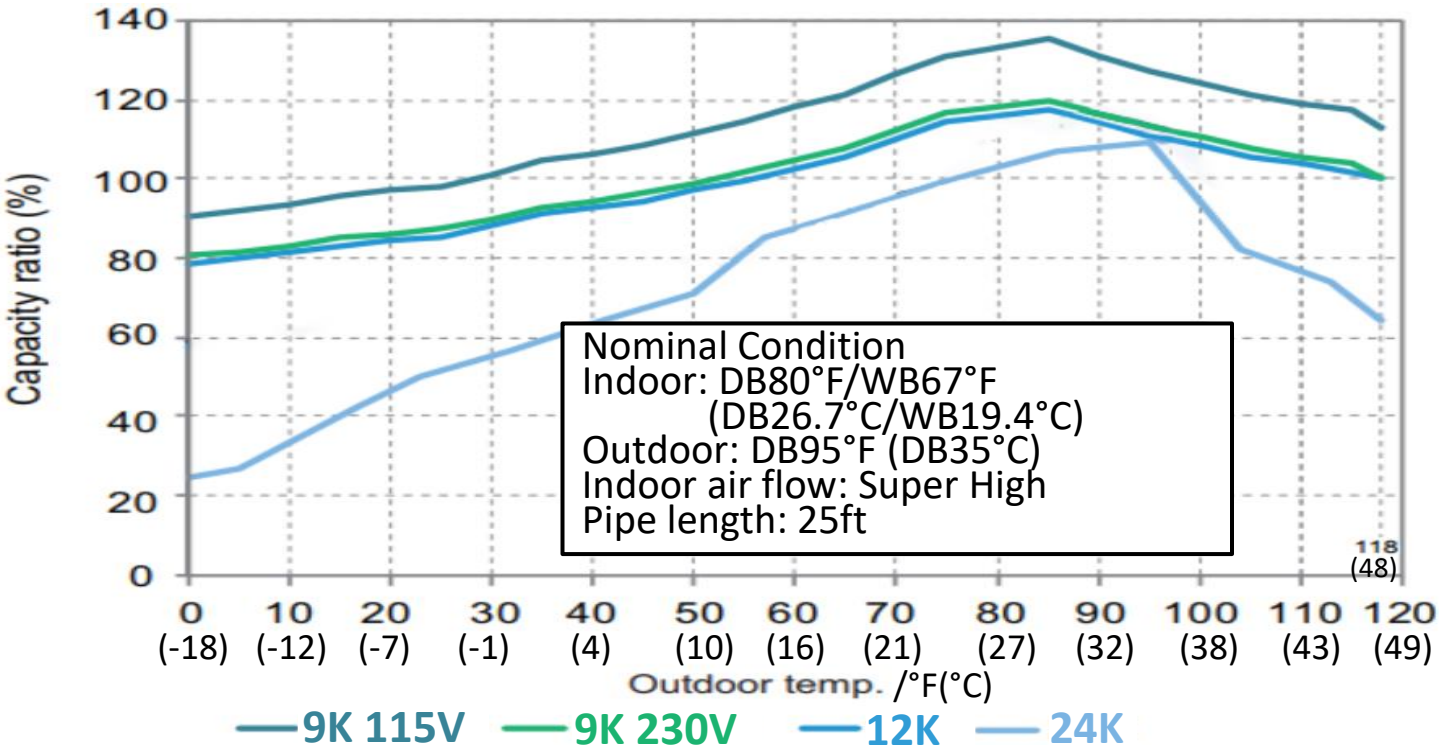
TOSOT.COM

FEATURES & FUNCTION: TWH12ZD32AI & TWH12ZD32AO

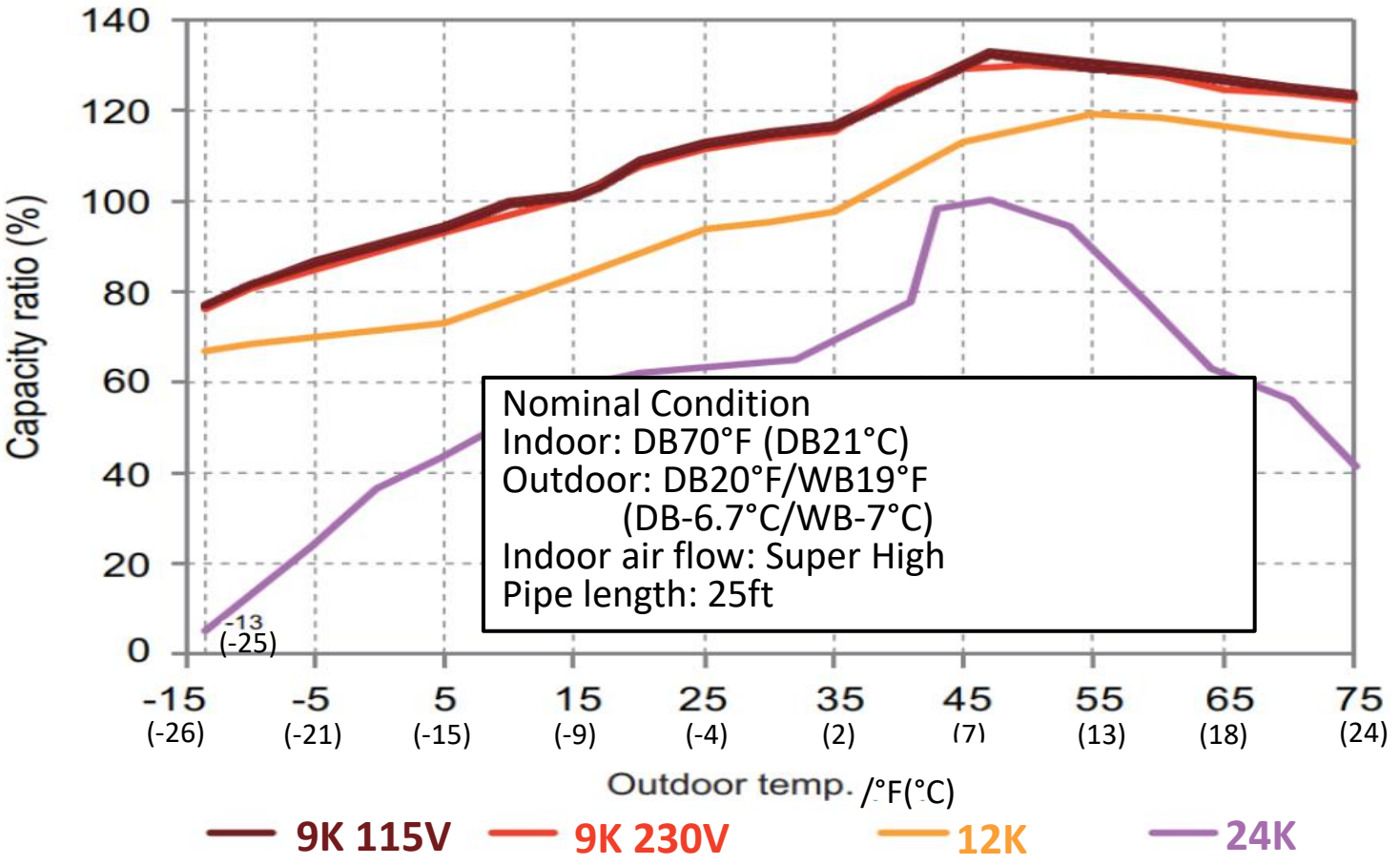
SYSTEM FEATURES	
Ultra Low Frequency Torque Control	Yes
Power Factor Correction	Yes
Compressor Type	Rotary
Outdoor Unit Drain Pan / Chassis Electric Heater	YES
Indoor & Outdoor Fin Coating (Blue)	Acrylic Resin / Anti-Corrosion
Low Voltage Startup	YES
Memory/Power Failure Recovery	YES
Self Diagnosis	YES
WIFI Included	YES
Indoor Fan Type	Cross-flow
Multi Fan Speeds	7 Speeds
Indoor Unit Display	YES
Auxiliary Electrical Heater	NO
Auto Mode	YES
Auto Fan	YES
Dry Mode	YES
Dry Anti-Mildew Mode / X-Fan	YES
Energy Saving Mode / I-demand	YES
Dirty Filter Alert	YES
I Feel Function	NO
Child Lock on Remote Controller	YES
Quiet Mode	YES
Sleep Mode	YES
Artificial Intelligence for Saving Energy	Version 1.0
Turbo Mode	YES
Freeze Guard Mode	YES
R32 Leakage Detector	YES
Low Temperature Cooling / Heating	YES
24Vac Signal 3rd party Backup Heater Output	XE71-00/E
Auto Swing	Vertical
Intelligent Defrosting	YES
Thin Frost Rapid Removing	NO
Intelligent Dehumidify	NO
Power Gear	NO
ODU Self-Cleaning	NO
Auto Brightness for Panel Display	NO
Buzz Volume Adjustable	NO

EXTENDED RATINGS: TWH12ZD32AI & TWH12ZD32AO

Cooling capacity correction curve



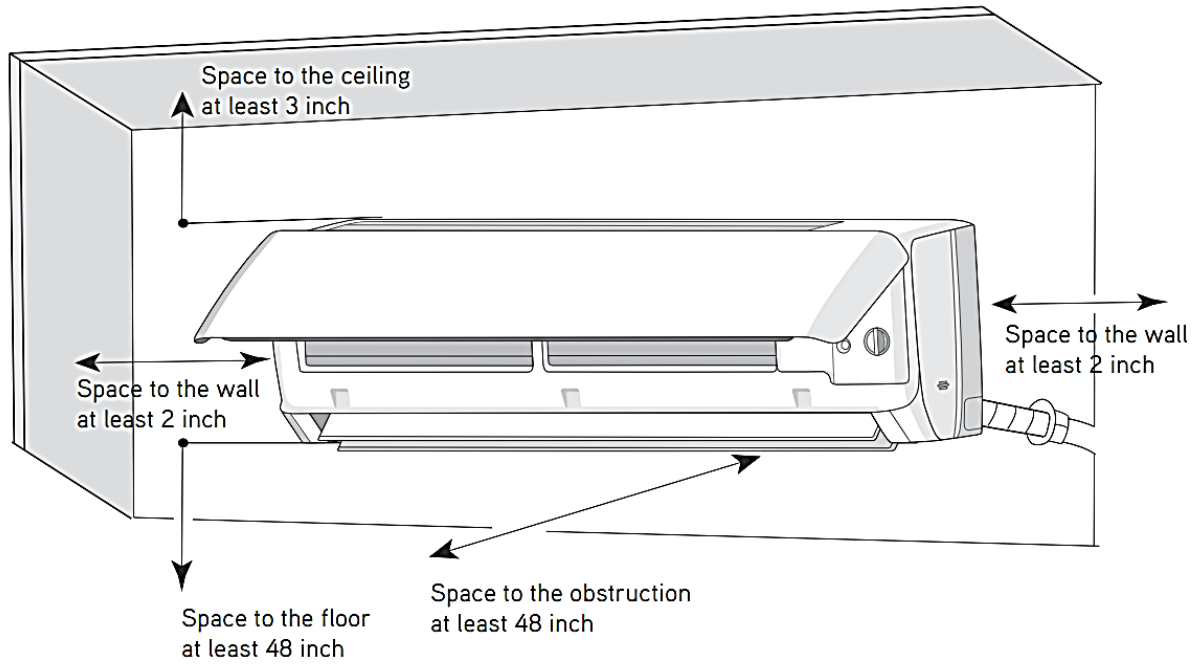
Heating capacity correction curve



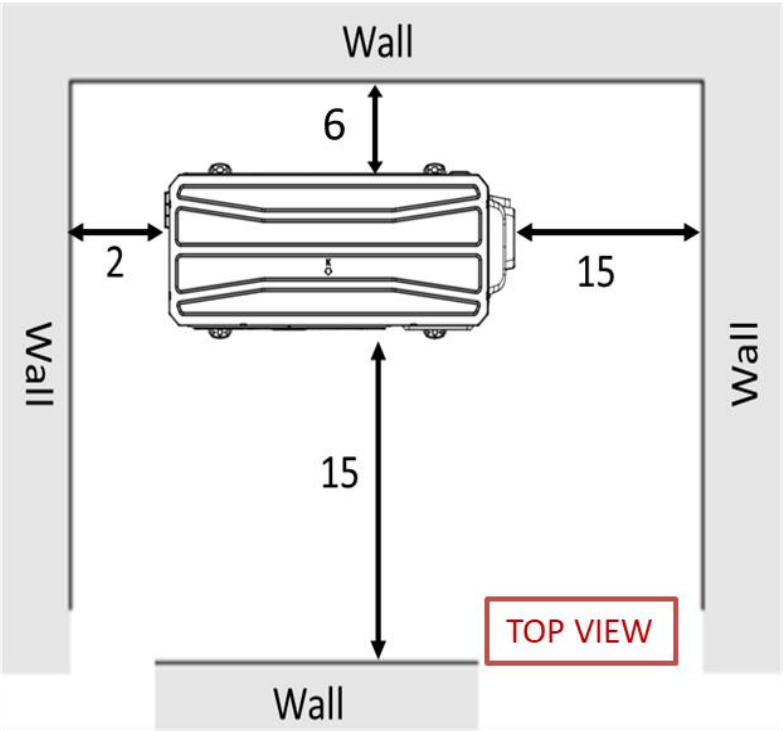
SPACING REQUIREMENT: TWH12ZD32AI & TWH12ZD32AO

INDOOR UNIT

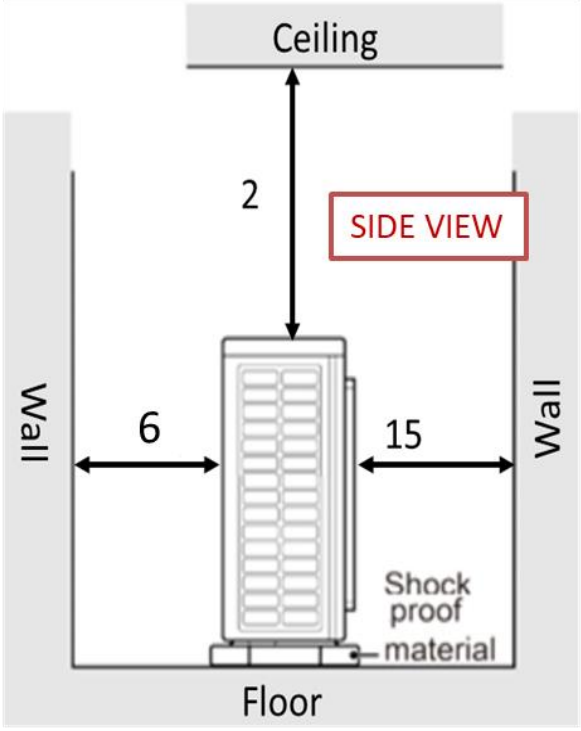
Unit: inch



OUTDOOR UNIT



The ceiling should be open



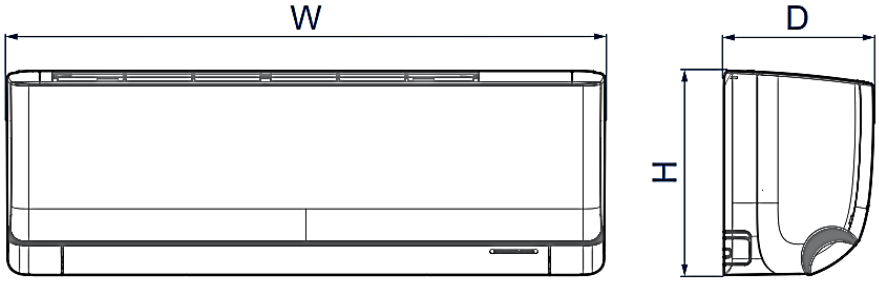
Either left or right side should be open

Note:

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

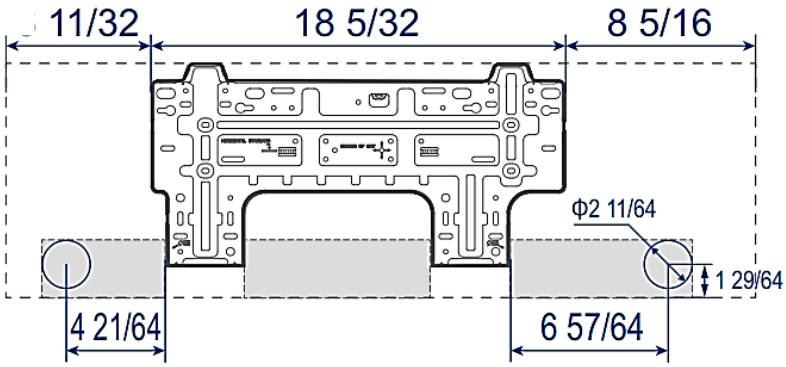
DIMENSIONAL : TWH12ZD32AI & TWH12ZD32AO

INDOOR UNIT



Unit: inch

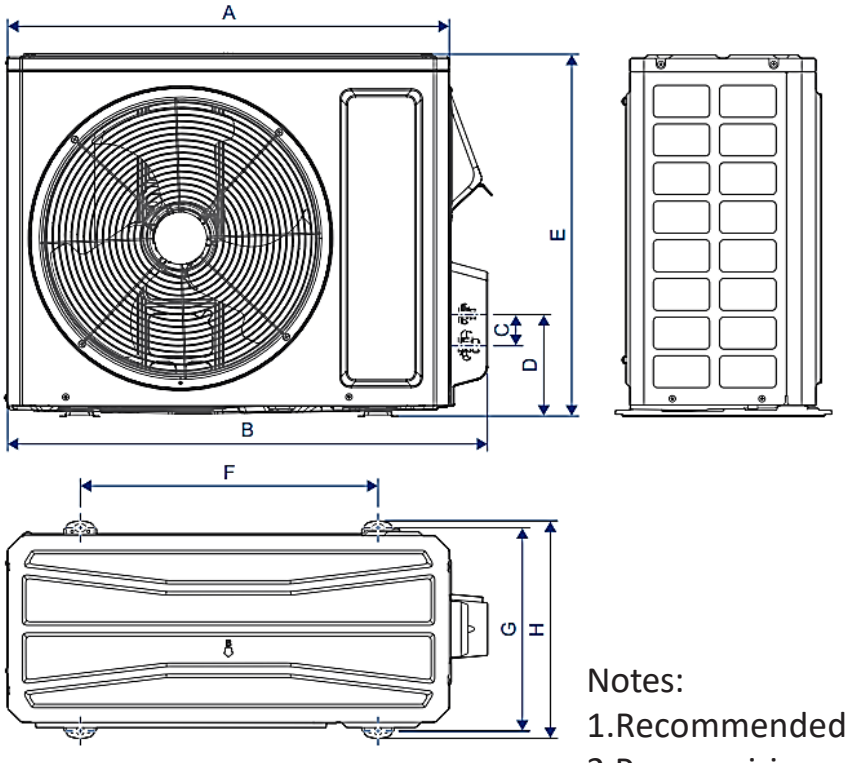
Dimensions	
D	7 9/16
H	10 15/64
W	32 51/64



Weight (Net/Shipping)
18 / 21 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

OUTDOOR UNIT



NOTE: The appearance of outdoor unit is for reference only.

Dimensions	
A	26 37/64
B	28 13/16
C	2 9/16
D	6 27/64
E	21 27/32
F	17 29/32
G	12 13/64
H	12 63/64

Weight (Net/Shipping)
57 / 62 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	3/8-in OD Flared

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