Single Zone System
R32 HEAT / COOL
HIGH HEAT, DAILY CHARMING, COOLING CHARMO

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

SUBMITTAL DATA: TWH12JD32AI+TWH12JD32AO

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

AHRI CERTIFIED REF	**218717350**
ENERGY STAR No.	**4691445**





YBE1FB1F
(Standard)



YAW1F9
Cool-only
(Optional)



XE72-44/E
(Optional)



XE71-00/E
(Optional)



SYSTEM RATINGS		INDOOR UNIT DATA	
Cooling		**Fan Motor**	
Rated Capacity at 95° F	12,000 BTU/H	Type	Cross-flow
Capacity Range	3,753-20,300 BTU/H	Output Power	50 W
		FLA	0.70 A
Power Input (Max)	2,300 W	Fan Speeds	7
Power Input (Min)	W	Air flow (Min/Max)	282 / 618 CFM
SEER2 / EER2	25.5 / 16.0	Drainage Hose Size	5/8”
Heating		**Sound Pressure Level**	
Rated Capacity at 47° F	12,000 BTU/H	Cooling (Low/High)	34 / 53 dB(A)
Capacity Range	2,730-22,500 BTU/H	Heating (Low/High)	34 / 53 dB(A)
Rated Capacity @ 17°F	18,500 BTU/H	**Dehumidification**	3.80 pt/hr
Rated Capacity @ 5°F	12,100 BTU/H	**OUTDOOR UNIT DATA**	
Power Input (Max)	2,300 W	**Compressor**	
Power Input (Min)	260 W	Type	DC Inverter Rotary
HSPF2 (Region IV / V)	9.3 / 6.5	RLA	8.5 A
COP @5°F	1.9	**Fan Motor**	
Operating Range		Output Power	30 W
Cooling	0°F ~ 118°F -18°C ~ 48°C	RLA	0.8 A
		Sound Pressure Level	54 dB(A)
Heating	-13°F ~ 75°F -25°C ~ 24°C	**Refrigerant Piping Data**	
		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	32.5 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	13 A	MAX Refrigerant Pipe Length	131-ft
MOCP/Max Breaker Size	15 A	MIN Refrigerant Pipe Length	10-ft
Moisture Protection	IPX4	MAX Refrigerant Pipe Height Difference	82-ft

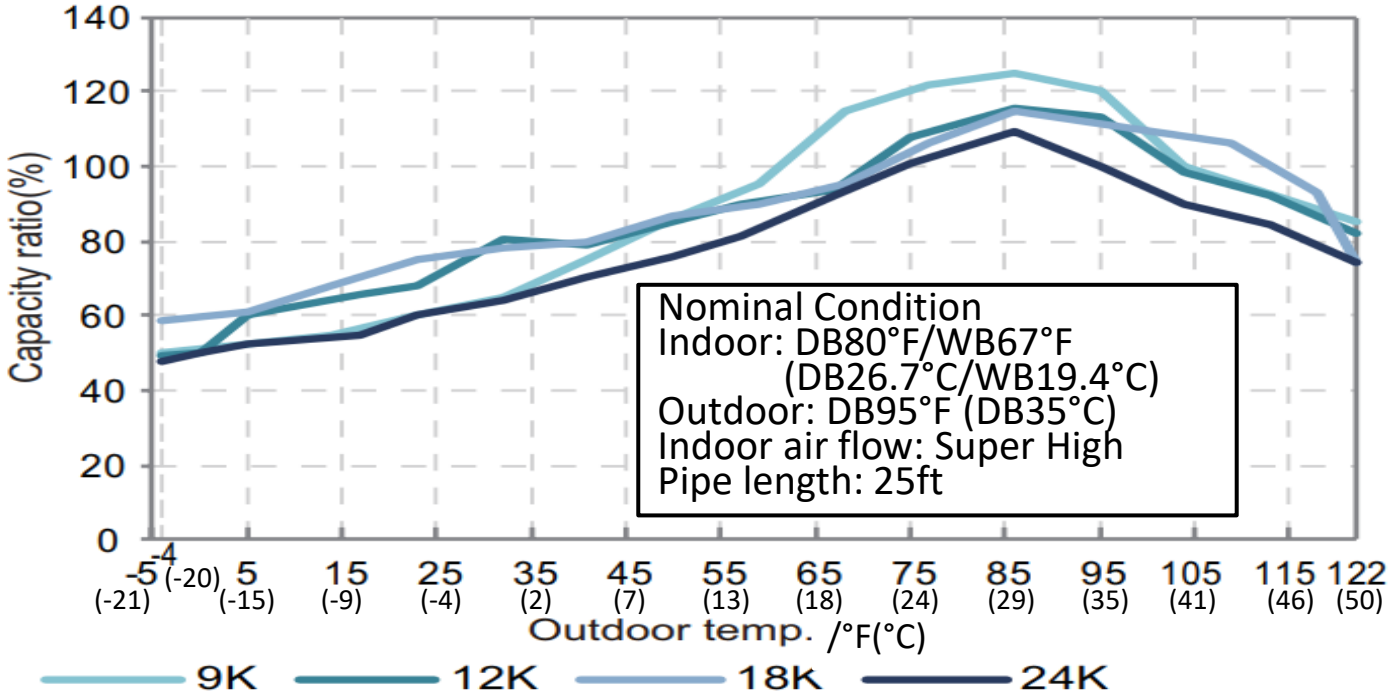
TOSOT.COM

FEATURES & FUNCTION: TWH12JD32AI + TWH12JD32AO

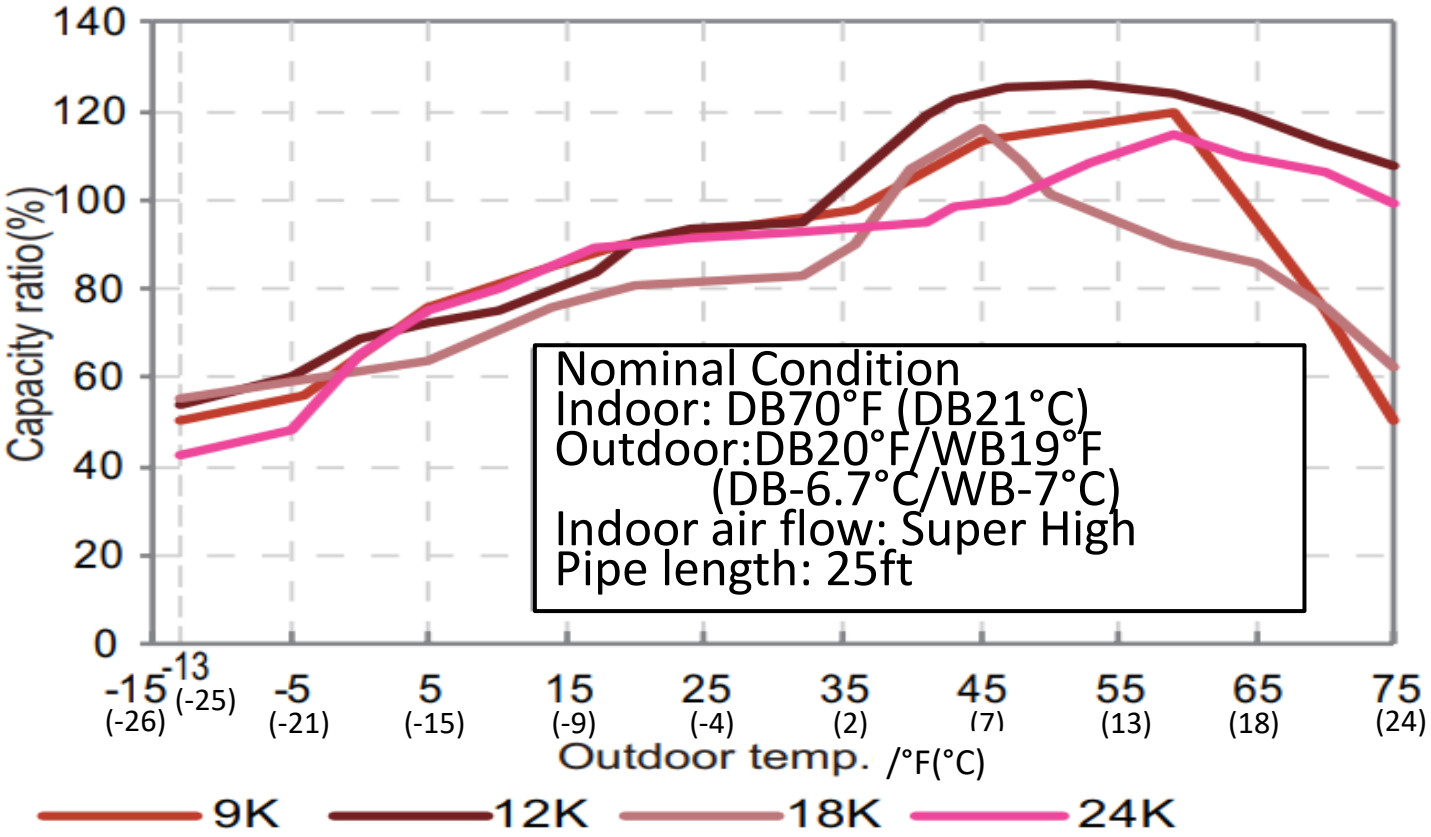
SYSTEM FEATURES	
Ultra Low Frequency Torque Control	Yes
Power Factor Correction	Yes
Compressor Type	Rotary
Outdoor Unit Drain Pan / Chassis Electric Heater	YES
Indoor & Outdoor Fin Coating (Blue)	Acrylic Resin / Anti-Corrosion
Built-in Condensate Pump	NO
Memory/Power Failure Recovery	YES
Self Diagnosis	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	YES
Child Lock on Remote Controller	YES
Quiet Mode	YES
Mini HRV/ERV Connectable	NA
Artificial Intelligence for Saving Energy	Version 1.0
Freeze Guard Mode	YES
Wireless Interlock with Sinope Thermostat	Optional
R32 Leakage Detector	Optional
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: TWH12JD32AI+TWH12JD32AO

Cooling capacity correction curve



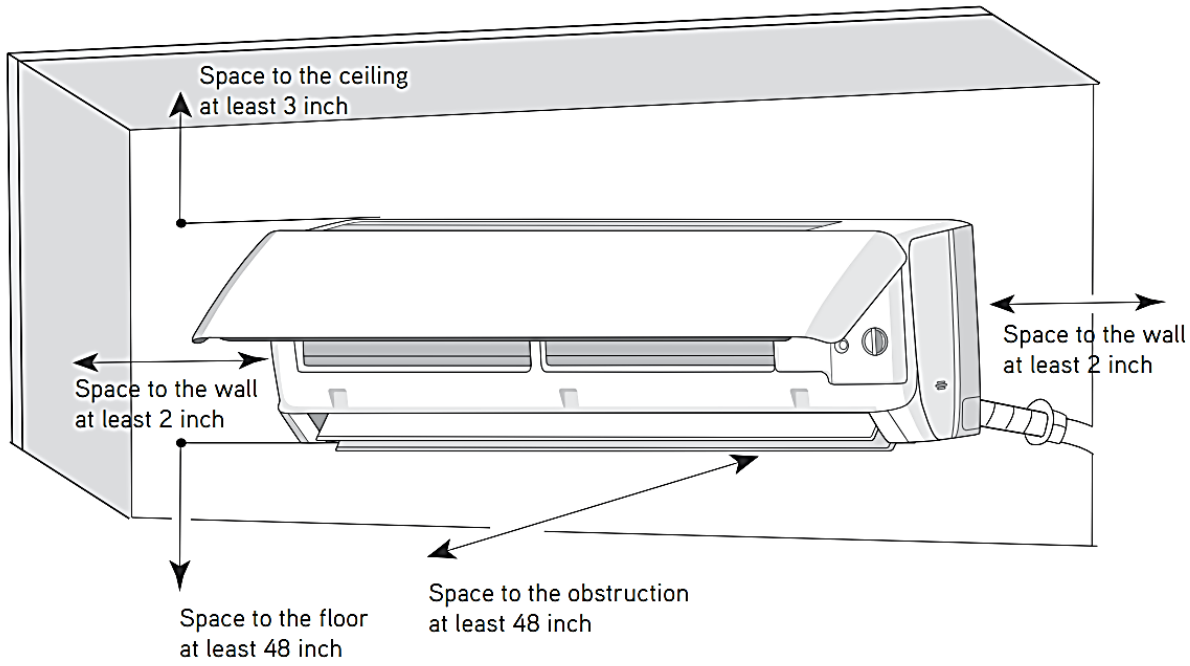
Heating capacity correction curve



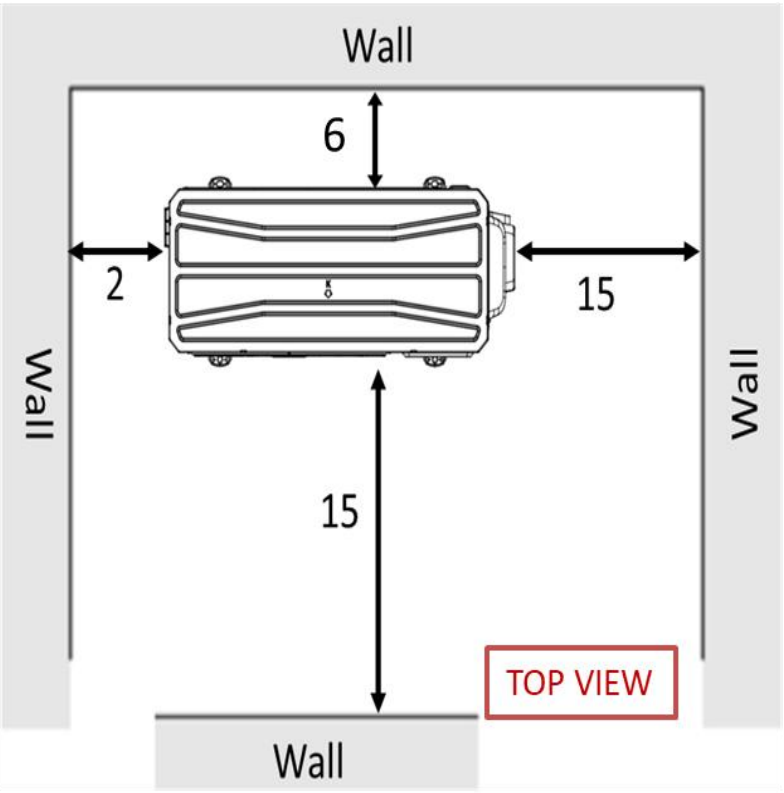
SPACING REQUIREMENT: TWH12JD32AI+TWH12JD32AO

INDOOR UNIT

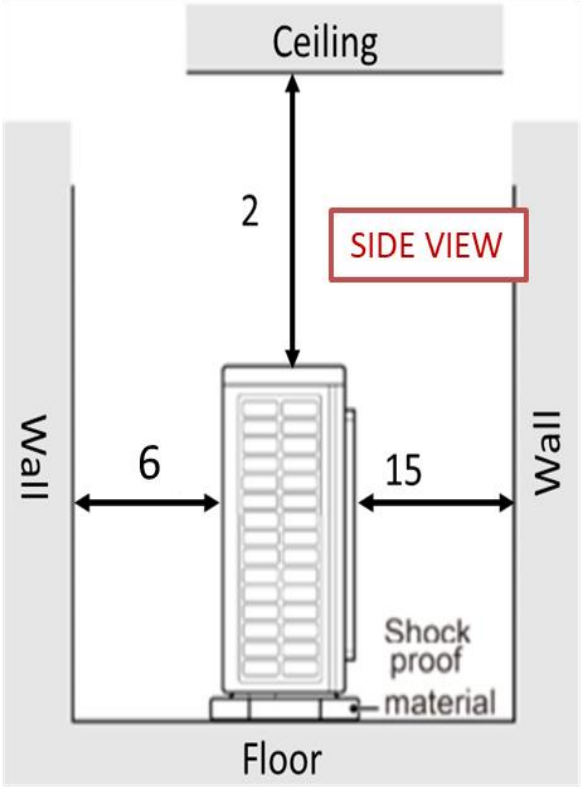
Unit: inch



OUTDOOR UNIT



The ceiling should be open

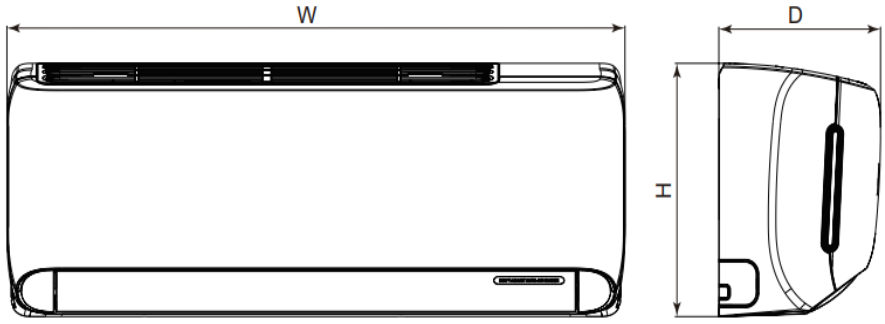


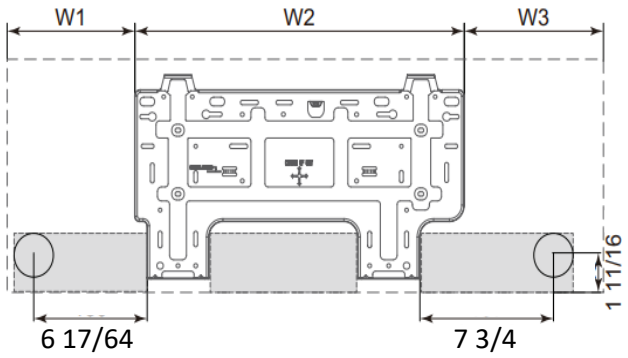
Either left or right side should be open

Note: Wall height on air outlet side ≤ 50inch

DIMENSIONAL : TWH12JD32AI+TWH12JD32AO

INDOOR UNIT





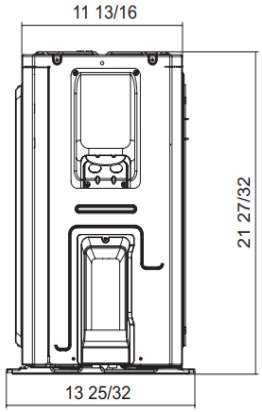
Unit: inch

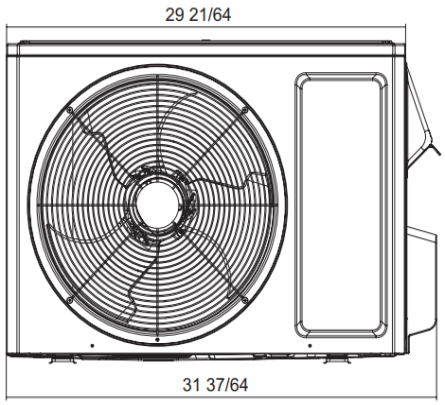
Dimensions	
D	9 11/16
H	13 7/64
W	37 1/8
W1	7 35/64
W2	22 7/64
W3	7 1/2

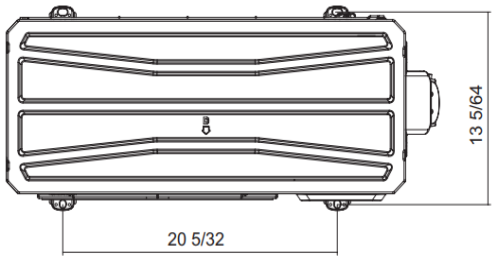
Weight (Net/Shipping)
29 / 35 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

OUTDOOR UNIT







Weight (Net/Shipping)
71 / 76 LBS

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