Single Zone System
R32 SMART HEAT / SMART COOL
SMART COMFORT AIR GREEN

24,000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

SUBMITTAL DATA: TWH24KD32AI & TWH24PD32AO

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

AHRI CERTIFIED REF	**218037154**
ENERGY STAR NUMBER	**4576764**





YBE1FB1F
(Standard)



YAW1F9
Cool-only
(Optional)



XE72-44/E
(Optional)



XE71-00/E
(Optional)



SYSTEM RATINGS		INDOOR UNIT DATA	
Cooling		**Fan Motor**	
Rated Capacity @ 95° F	22,000 BTU/H	Type	Cross-flow
Capacity Range	3,990-28,000 BTU/H	Output Power	110 W
		FLA	1.00 A
Power Input	1,675 W	Fan Speeds	7
Power Input (Min/Max)	135 / 2,400 W	Air flow (Min/Max)	383 / 736 CFM
SEER2 / EER2	26.0 / 13.65	Drainage Hose Size	5/8”
Heating		**Sound Pressure Level**	
Rated Capacity at 47° F	24,000 BTU/H	Cooling (Low/High)	29 / 47 dB(A)
Capacity Range	2,900-27,640 BTU/H	Heating (Low/High)	35 / 50 dB(A)
Rated Capacity @ 17°F	2,235 W	**Dehumidification**	5.07 pt/hr
Rated Capacity @ 5°F	21,800 BTU/H	**OUTDOOR UNIT DATA**	
Power Input	19,000 BTU/H	**Compressor**	
Power Input (Min/Max)	178 / 3,850 W	Type	DC Inverter Rotary
HSPF2 (Region IV / V)	10.0 / 7.0	RLA	15.3 A
COP @47°F / @5°F	3.30 / 1.81	**Fan Motor**	
Operating Range		Output Power	60 W
Cooling	-20°F ~ 122°F -29°C ~ 50°C	RLA	0.9 A
		Sound Pressure Level	54 dB(A)
Heating	-22°F ~ 86°F -30°C ~ 30°C	**Refrigerant Piping Data**	
		Liquid Pipe Size (OD)	1/4-in
Power Supply		Gas Pipe Size (OD)	5/8-in
Rated	208/230 V, 1 Phase, 60 Hz	Connection Method	Flared
Voltage Range	187 - 253 V	Pre-Charged R32 Amount	42.3 oz
Main Power Wire Size	Per Local Code	Additional Charge	0.4 oz/ft
Wire Size between IDU & ODU	14-4 AWG	Pre-Charge Length	25-ft
MCA	22 A	MAX Refrigerant Pipe Length	131-ft
MOCP/Max Breaker Size	30 A	MIN Refrigerant Pipe Length	10-ft
Moisture Protection	IPX4	MAX Refrigerant Pipe Height Difference	82-ft

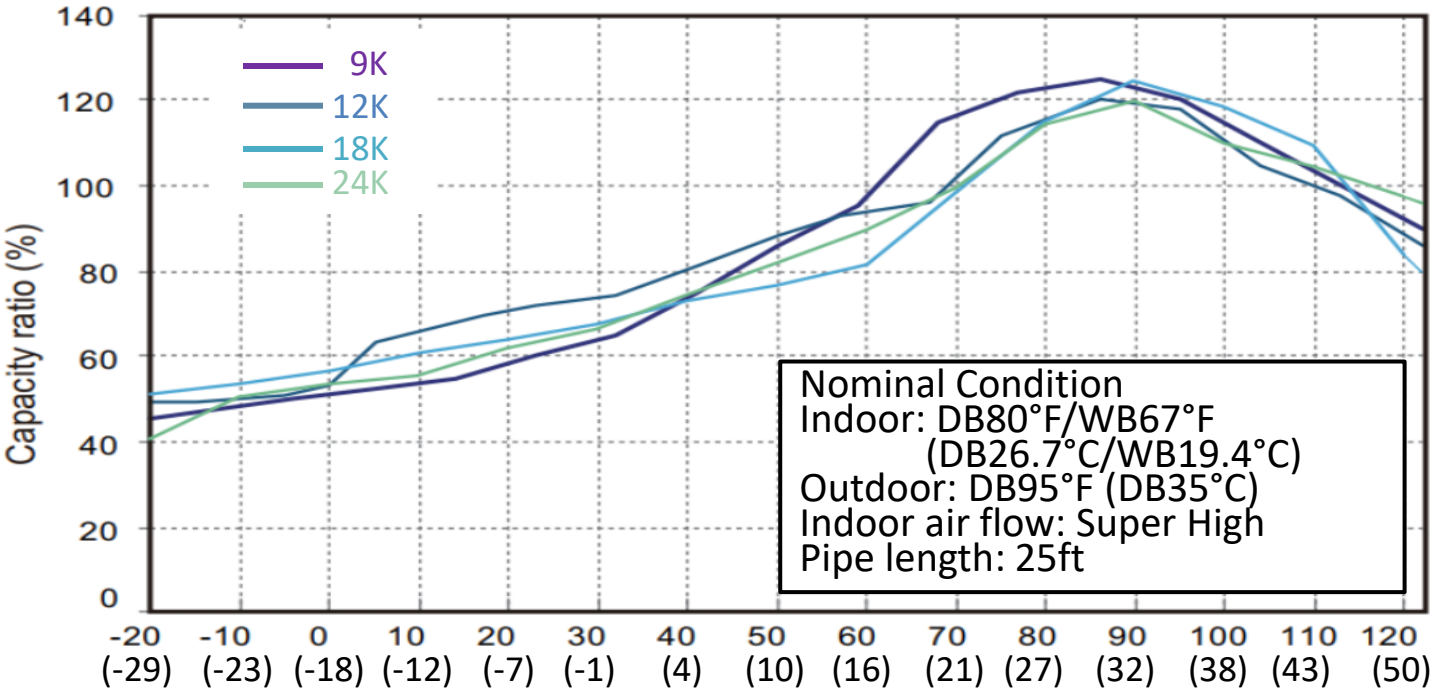
TOSOT.COM

FEATURES & FUNCTION: TWH24KD32AI & TWH24PD32AO

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
Built-in Condensate Pump	NO
I Feel Function	YES
Child Lock on Remote Controller	YES
Quiet Mode	YES
Mini HRV/ERV Connectable	TXF30-SXQG01
Artificial Intelligence for Saving Energy	Version 1.0
Freeze Guard Mode	YES
Wireless Interlock with Sinope Thermostat	NO
R32 Leakage Detector	Optional
Low Temperature Cooling / Heating	YES
24Vac Signal 3rd party Backup Heater Output	XE71-00/E
Auto Swing	Horizontal + 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

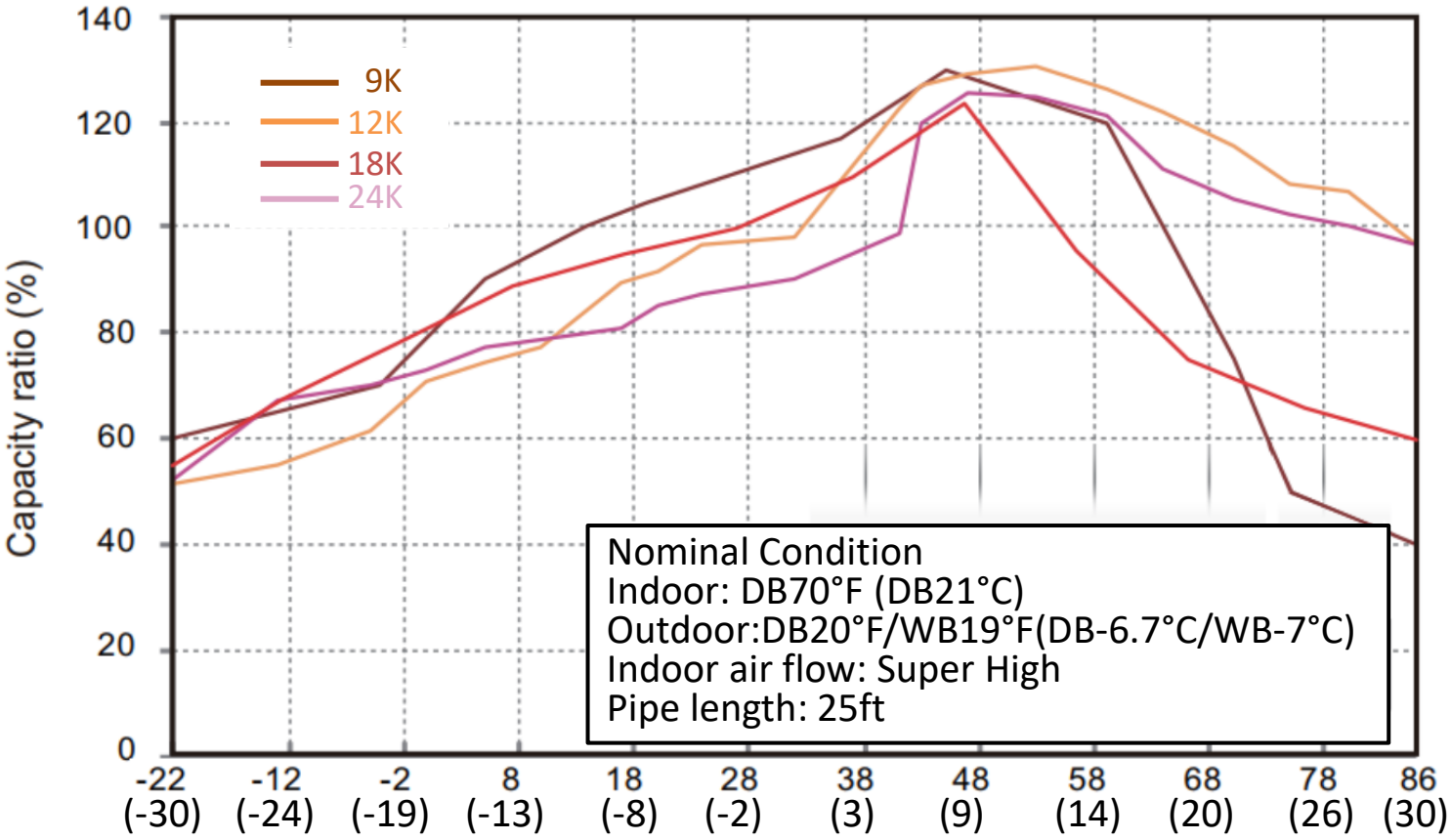
EXTENDED RATINGS: TWH24KD32AI & TWH24PD32AO

Cooling capacity correction curve



Outdoor temperature /°F(°C)

Heating capacity correction curve

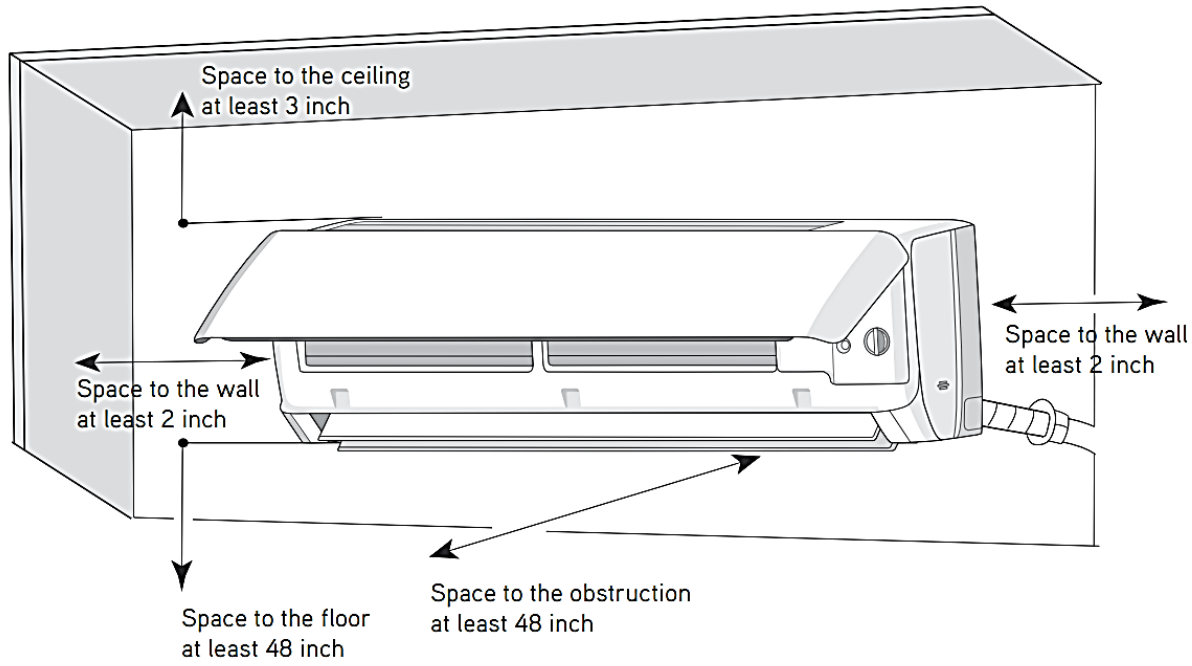


Outdoor temperature /°F(°C)

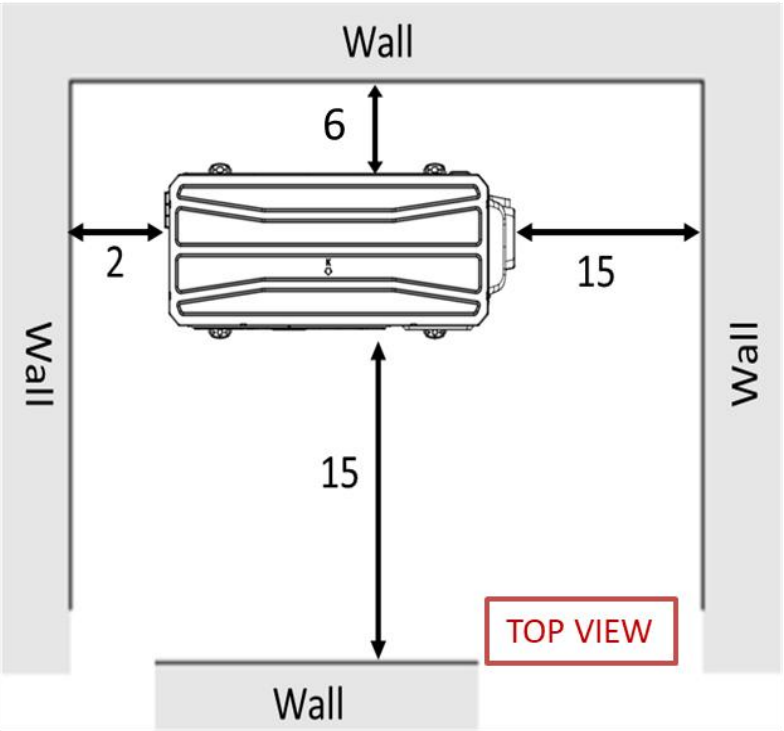
SPACING REQUIREMENT: TWH24KD32AI & TWH24PD32AO

INDOOR UNIT

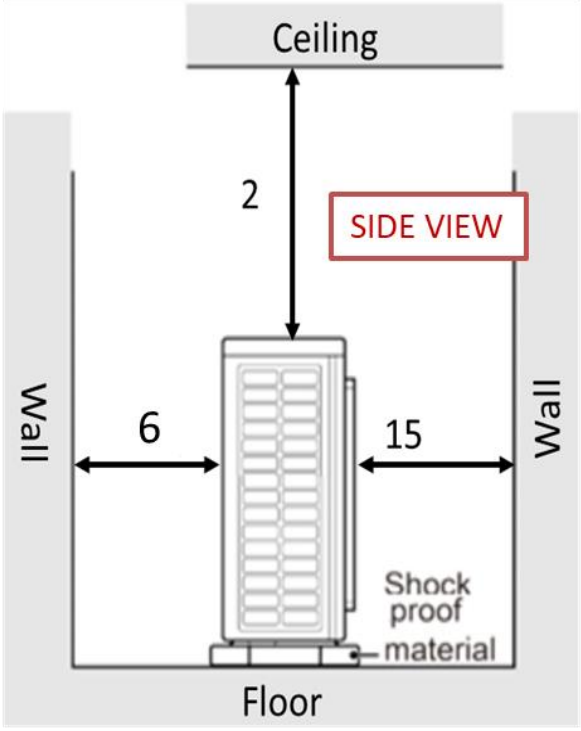
Unit: inch



OUTDOOR UNIT



The ceiling should be open



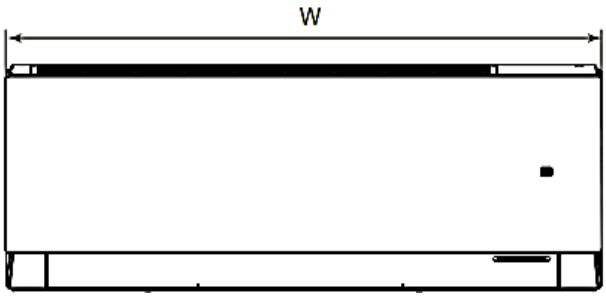
Either left or right side should be open

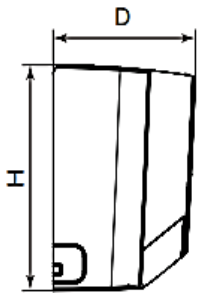
Note:

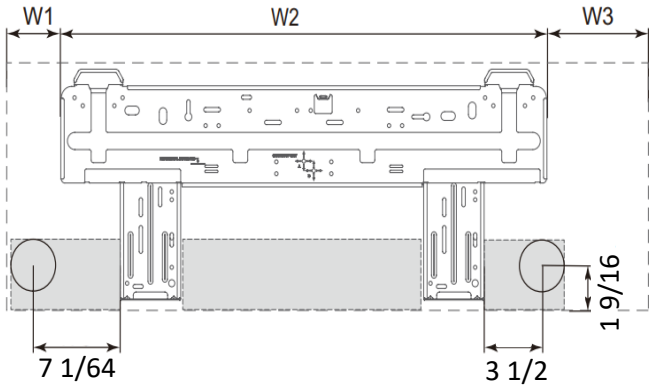
1. Apply the value in the brackets to achieve best performance
2. Wall height on air outlet side ≤ 50inch

DIMENSIONAL : TWH24KD32AI & TWH24PD32AO

INDOOR UNIT







Unit: inch

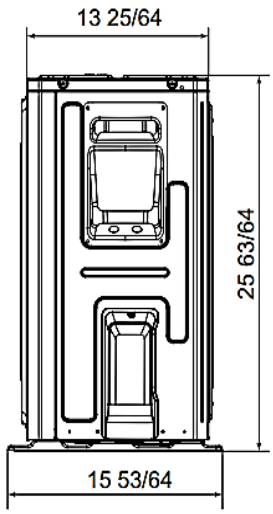
Dimensions	
D	8 3/4
H	12 1/4
W	39 1/8
W1	5 1/16
W2	27 7/8
W3	6 3/16

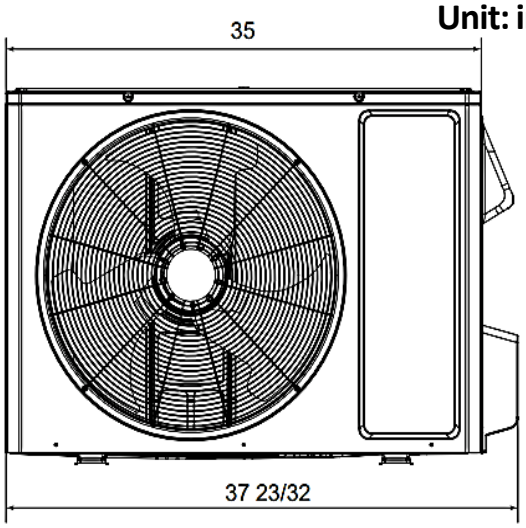
Weight (Net/Shipping)
30 / 36 LBS

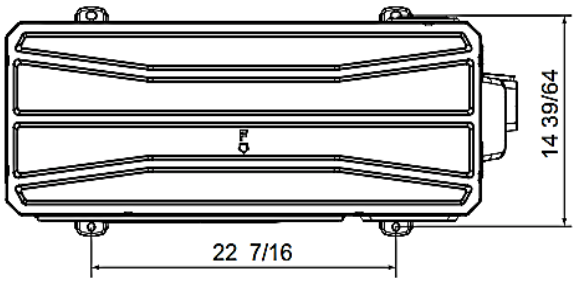
Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	5/8-in OD Flared
Drain Connector	5/8-in OD

OUTDOOR UNIT

Unit: inch







Weight (Net/Shipping)
93 / 103 LBS

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