TOSOT

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

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

SUBMITTAL DATA: TWH12CD32AI & TWH12CD32AO

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

AHRI CERTIFIED REF	**217992264**
ENERGY STAR No.	**4515339**





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	3,070-13,300 BTU/H	Output Power	55 W
		FLA	0.70 A
Power Input	1,231 W	Fan Speeds	7
Power Input (Min/Max)	180 / 1,550 W	Air flow (Min/Max)	182/424 CFM
SEER2 / EER2	19.0 / 9.75	Drainage Hose Size	5/8”
Heating		**Sound Pressure Level**	
Rated Capacity at 47° F	12,000 BTU/H	Cooling (Low/High)	27 / 47 dB(A)
Capacity Range	3,070-14,600 BTU/H	Heating (Low/High)	27 / 47 dB(A)
Rated Capacity @ 17°F	9,700 BTU/H	**Dehumidification**	2.96 pt/hr
Rated Capacity @ 5°F	9,100 BTU/H	**OUTDOOR UNIT DATA**	
Power Input	1,004 W	**Compressor**	
Power Input (Min/Max)	180 / 1,650 W	Type	DC Inverter Rotary
HSPF2 (Region IV / V)	8.5 / 7.3	RLA	8.0 A
COP @47°F / @5°F	3.52 / 1.80	**Fan Motor**	
Operating Range		Output Power	30 W
Cooling	0°F ~ 118°F -18°C ~ 48°C	RLA	0.8 A
		Sound Pressure Level	48 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)	3/8-in
Rated	208/230 V, 1 Phase, 60 Hz	Connection Method	Flared
Voltage Range	187 - 253 V	Pre-Charged R32 Amount	17.6 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	12 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

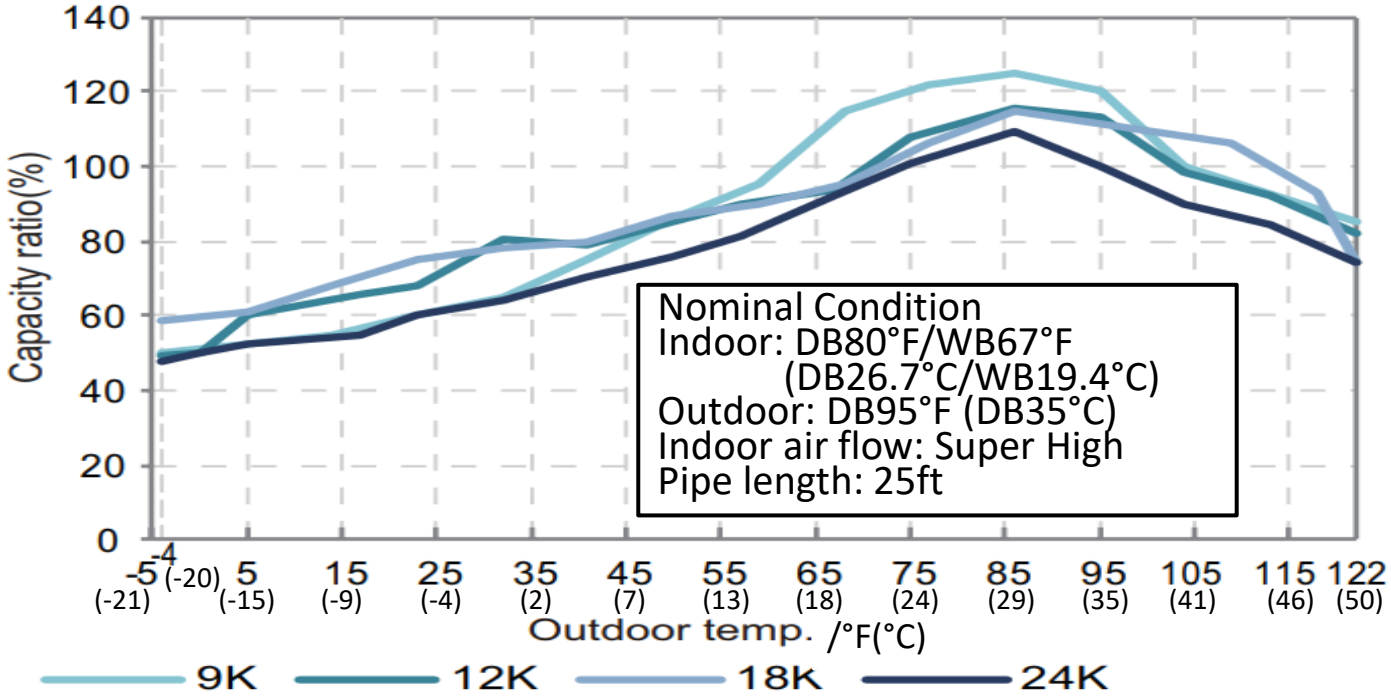
R32 | neep | INVERTER | ETL Intertek | AHRI CERTIFIED www.ahridirectory.org | ENERGY STAR COLD CLIMATE

FEATURES & FUNCTION: TWH12CD32AI & TWH12CD32AO

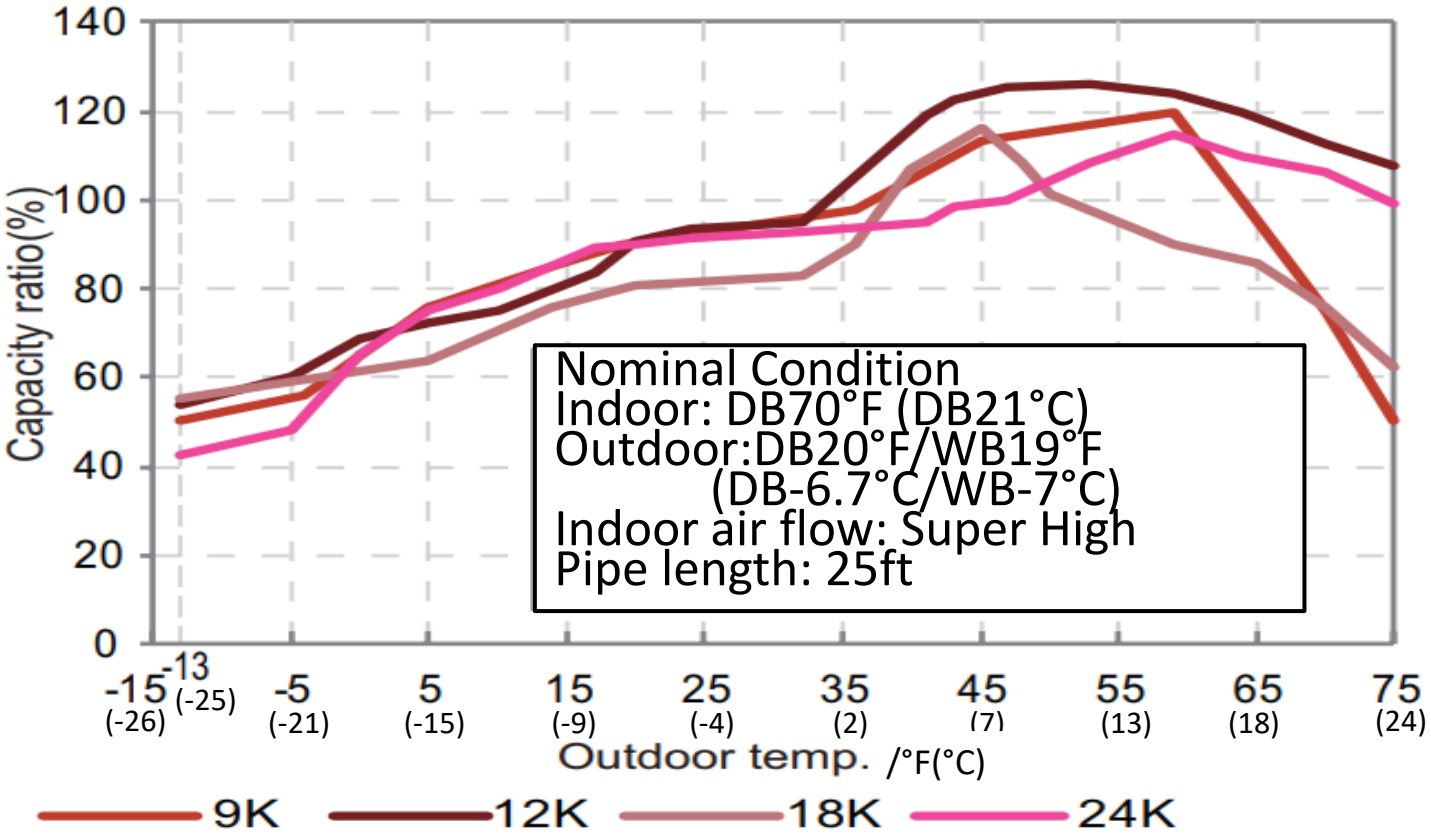
SYSTEM FEATURES	
Ultra Low Frequency Torque Control	Yes
Power Factor Correction	Yes
Compressor Type	Rotary
Outdoor Unit Drain Pan / Chassis Electric Heater	YES
Indoor & Outdoor Fin Coating (Blue)	Acrylic Resin / Anti-Corrosion
Built-in Condensate Pump	NO
Memory/Power Failure Recovery	YES
Self Diagnosis	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: TWH12CD32AI & TWH12CD32AO

Cooling capacity correction curve



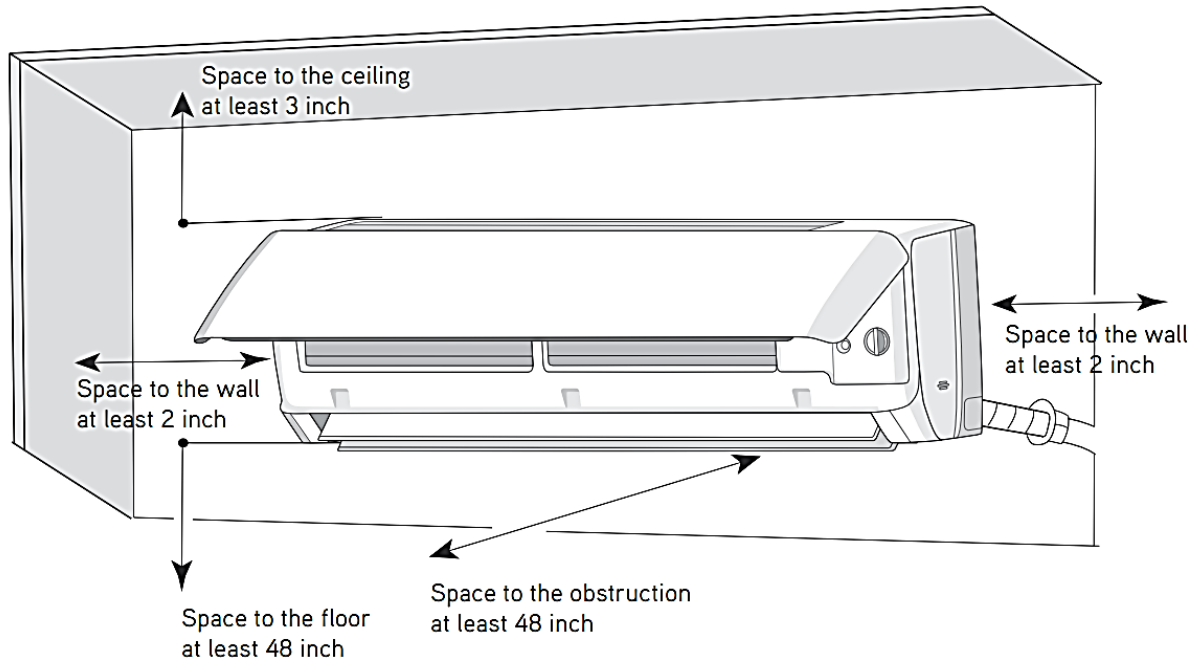
Heating capacity correction curve



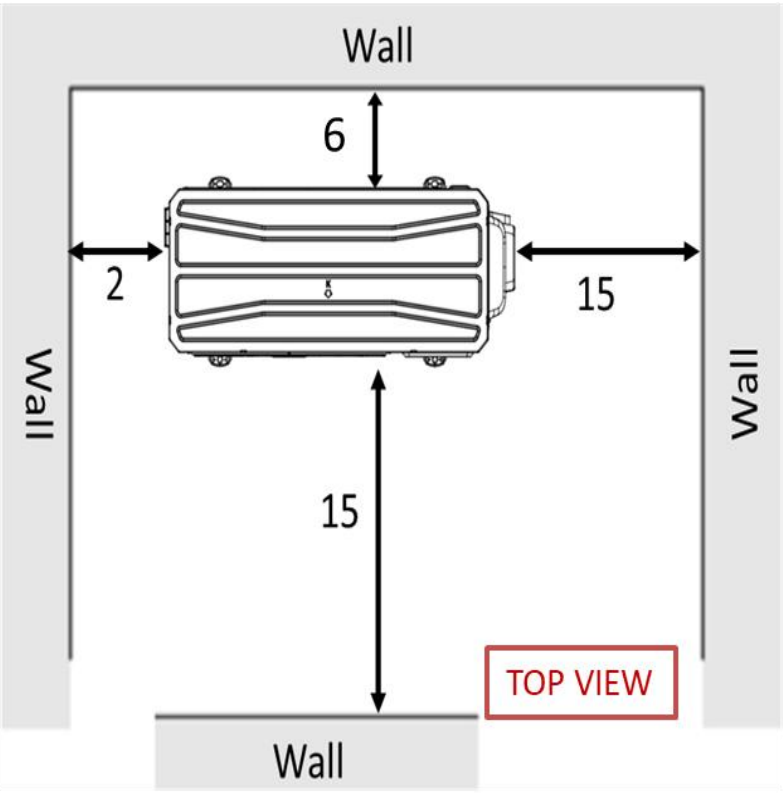
SPACING REQUIREMENT: TWH12CD32AI & TWH12CD32AO

INDOOR UNIT

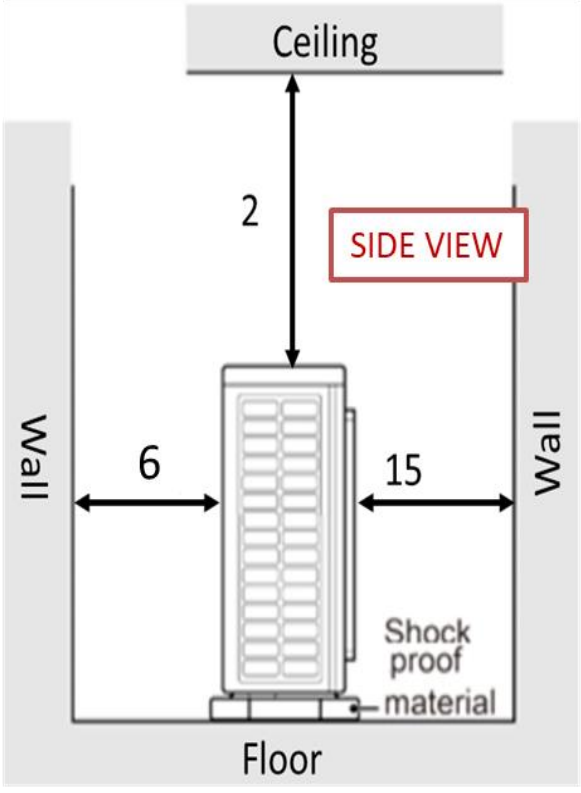
Unit: inch



OUTDOOR UNIT



The ceiling should be open

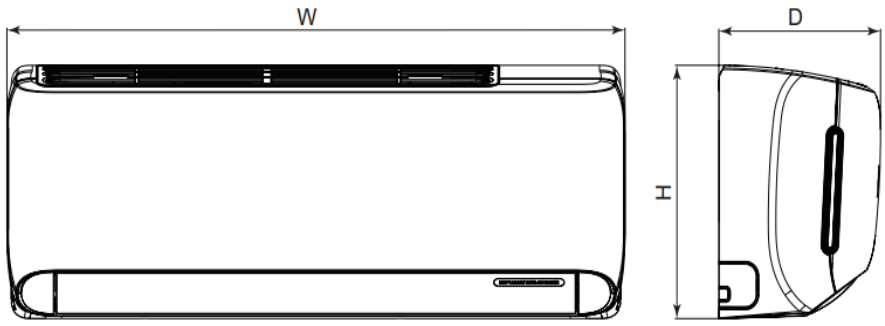


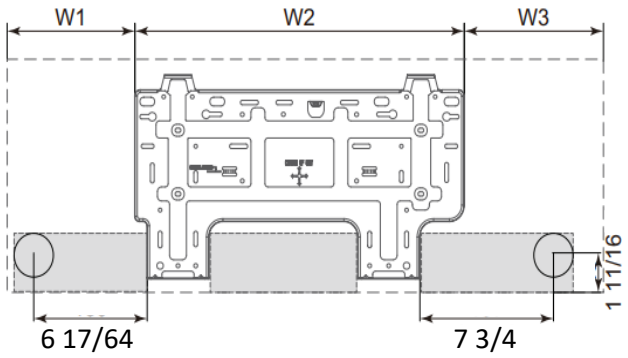
Either left or right side should be open

Note: Wall height on air outlet side ≤ 50inch

DIMENSIONAL : TWH12CD32AI & TWH12CD32AO

INDOOR UNIT





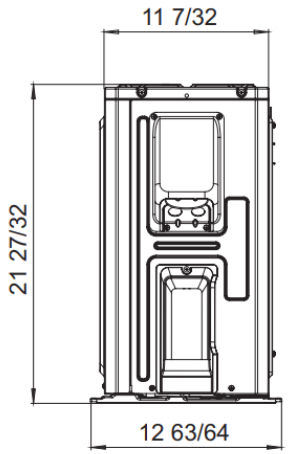
Unit: inch

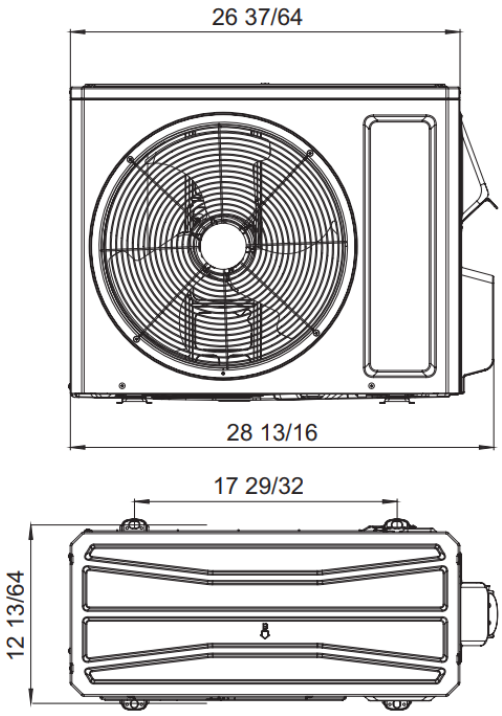
Dimensions	
D	7 7/8
H	10 53/64
W	32 7/8
W1	7 3/64
W2	18 5/32
W3	7 11/16

Weight (Net/Shipping)
20 / 25 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





Weight (Net/Shipping)
56 / 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