TOSOT

# R32 HEAT / COOL

## MORE THAN COOLING & HEATING, ZENO

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

## SUBMITTAL DATA: TWH12ZA32AI & TWH12ZA32AO

| | | | | |
|---|---|---|---|---|
| **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 | 2,730-12,700 BTU/H | Output Power | 20 W |
| Power Input | 1,352 W | FLA | 0.46 A |
| Power Input (Min/Max) | 200 / 1,400 W | Fan Speeds | 7 |
| SEER2 / EER2 | 17.0 / 8.85 | 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 | 2,388-13,480 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 | 1,172 W | **Compressor** | |
| Power Input (Min/Max) | 200 / 1,400 W | Type | DC Inverter Rotary |
| HSPF2 (Region IV) | 8.5 | RLA | 14.2 A |
| COP @47°F / @5°F | 2.90 / 1.75 | **Fan Motor** | |
| **Operating Range** | | Output Power | 30 W |
| Cooling | 0°F ~ 118°F | RLA | 0.66 A |
| | -18°C ~ 48°C | **Sound Pressure Level** | 51 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 | 115 V, 1 Phase, 60 Hz | Connection Method | Flared |
| Voltage Range | 104 – 126 V | Pre-Charged R32 Amount | 21.2 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 | 19 A | MAX Refrigerant Pipe Length | 66-ft |
| MOCP/Max Breaker Size | 20 A | MIN Refrigerant Pipe Length | 10-ft |
| Moisture Protection | IPX4 | MAX Refrigerant Pipe Height Difference | 40-ft |

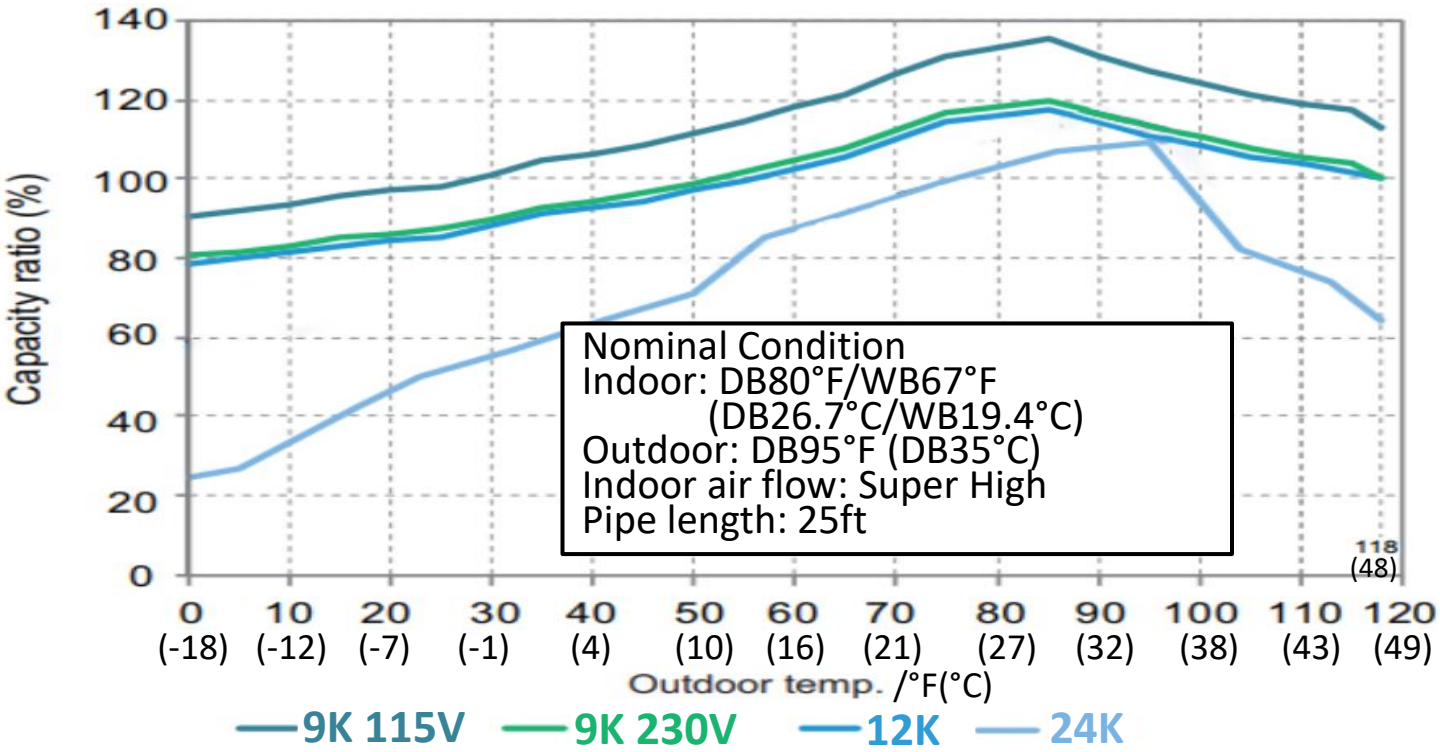
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# FEATURES & FUNCTION: TWH12ZA32AI & TWH12ZA32AO

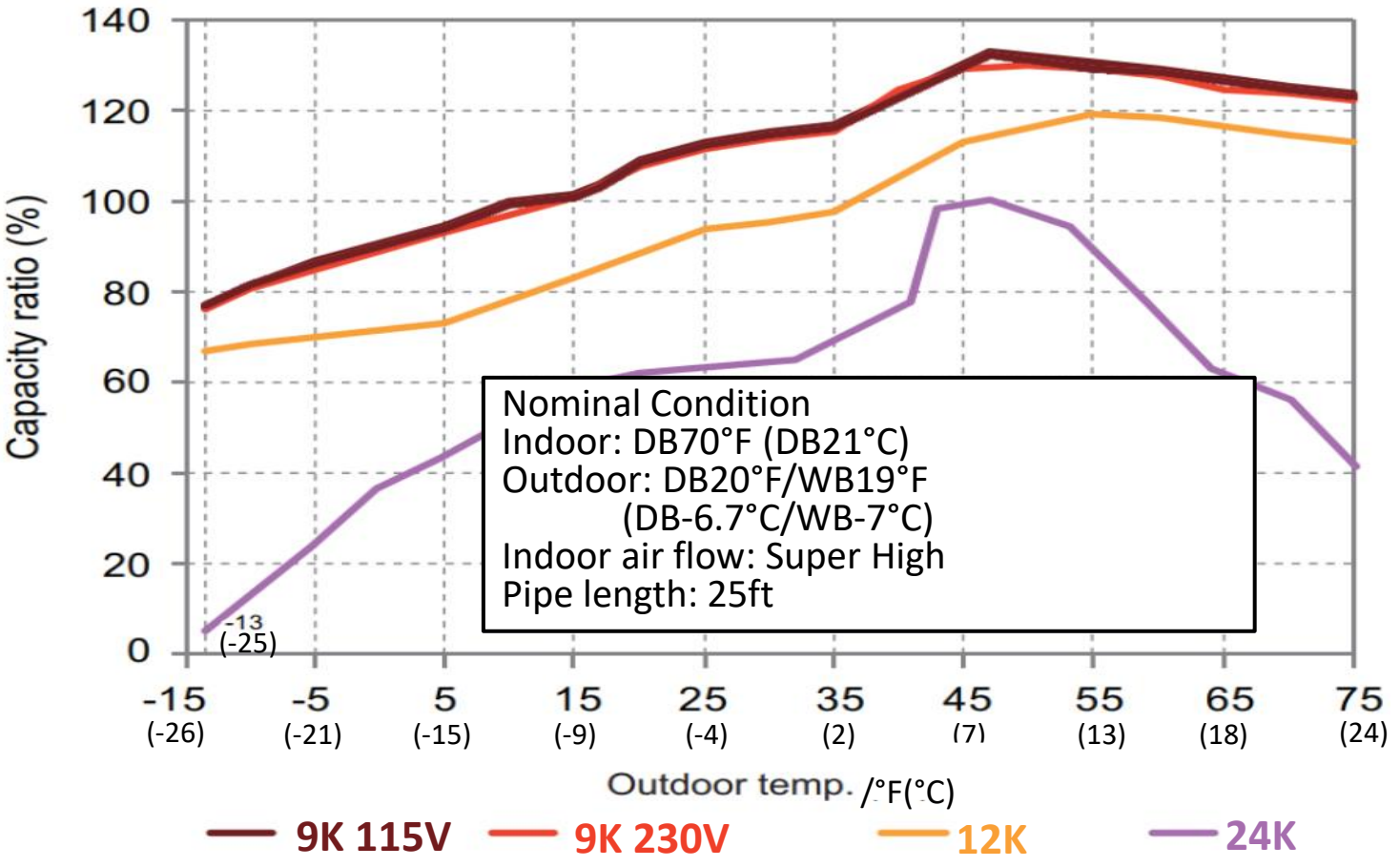
| SYSTEM FEATURES | |
|---|---|
| Ultra Low Frequency Torque Control | Yes |
| Power Factor Correction | Yes |
| Compressor Type | Rotary |
| Outdoor Unit Drain Pan / Chassis Electric Heater | YES |
| Indoor & Outdoor Fin Coating (Blue) | Acrylic Resin / Anti-Corrosion |
| Low Voltage Startup | YES |
| 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: TWH12ZA32AI & TWH12ZA32AO

## Cooling capacity correction curve



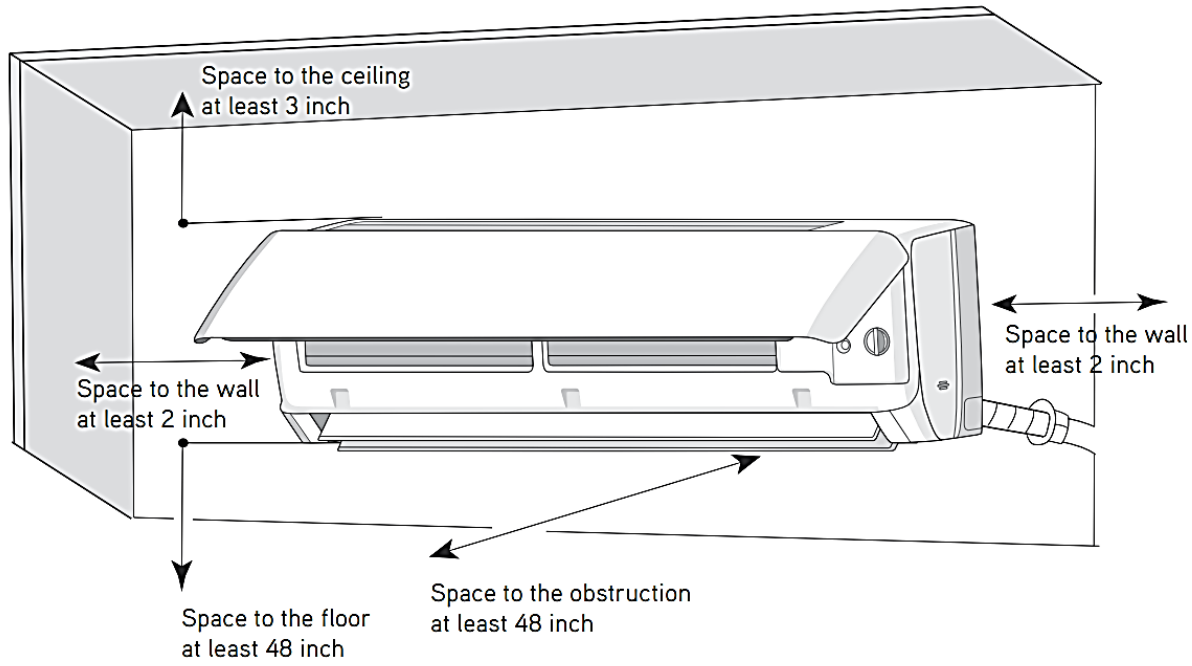

## Heating capacity correction curve



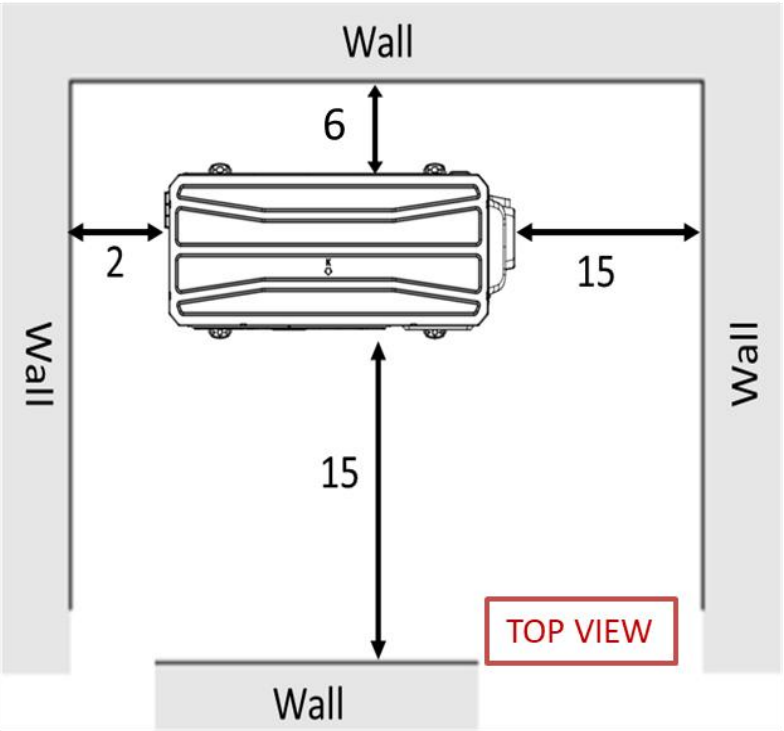
# SPACING REQUIREMENT: TWH12ZA32AI & TWH12ZA32AO

## INDOOR UNIT

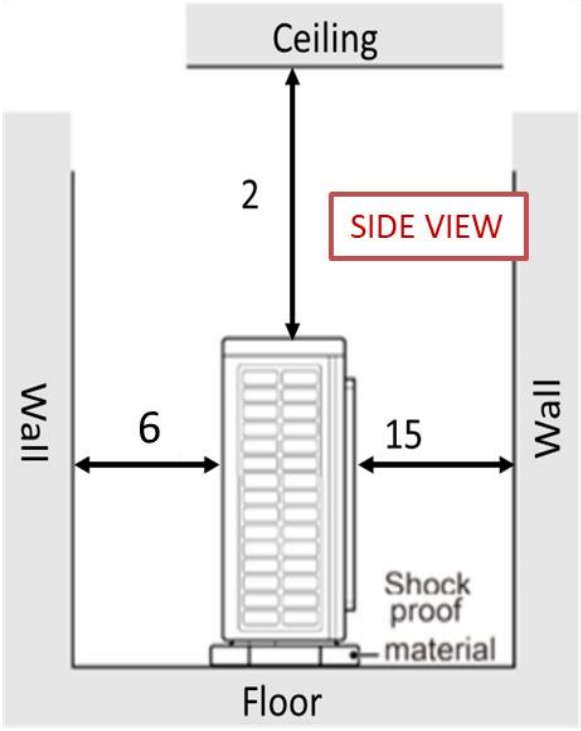
**Unit: inch**




## OUTDOOR UNIT




The ceiling should be open



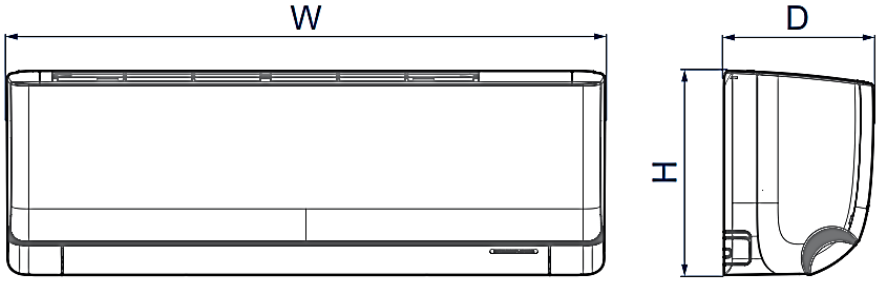

Either left or right side should be open

Note:

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

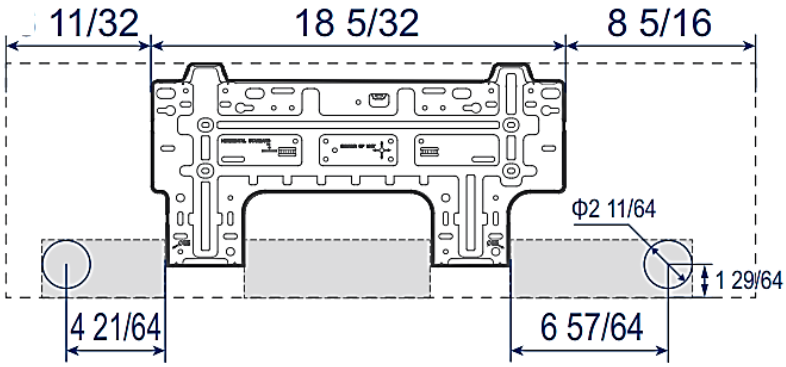
# DIMENSIONAL : TWH12ZA32AI & TWH12ZA32AO

## INDOOR UNIT




Unit: inch

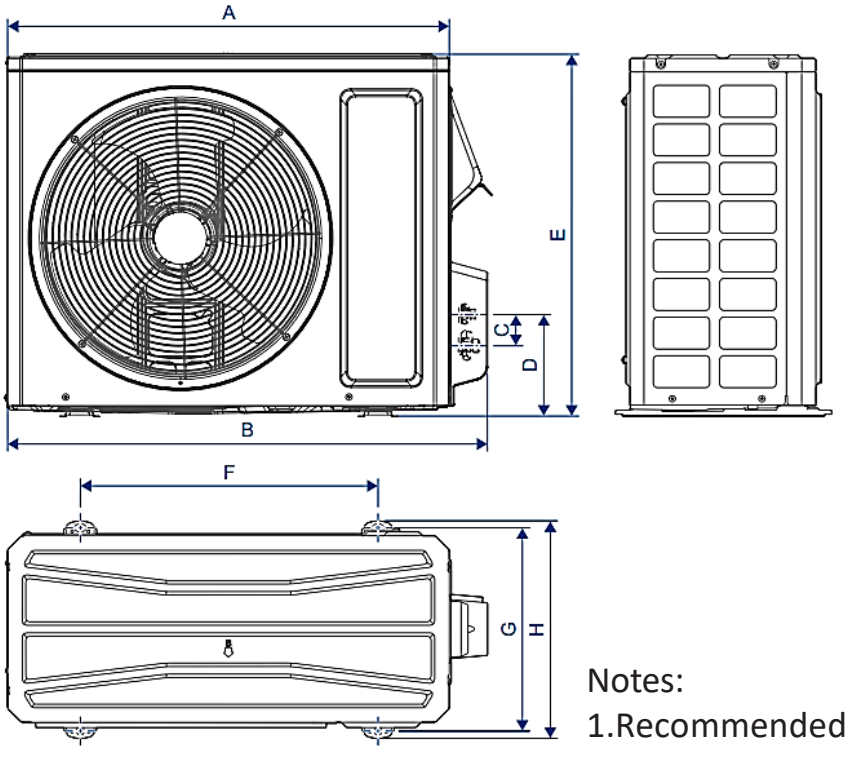
| Dimensions | |
|---|---|
| D | 7 9/16 |
| H | 10 15/64 |
| W | 32 51/64 |




**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)**
**59 / 64 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