# Single Zone System
# 115V R32 HEAT / COOL
## DAILY CHARMING, COOLING CHARMO

### 9,000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

## SUBMITTAL DATA: TWH09CA32AI & TWH09CA32AO

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

| | |
|---|---|
| **AHRI CERTIFIED REF** | **217992263** |
| **ENERGY STAR No.** | **4515338** |





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 | 9,100 BTU/H | Type | Cross-flow |
| Capacity Range | 2,700-11,600 BTU/H | Output Power | 20 W |
| | | FLA | 0.40 A |
| Power Input | 760 W | Fan Speeds | 7 |
| Power Input (Min/Max) | 200 / 1,150 W | Air flow (Min/Max) | 159/353 CFM |
| SEER2 / EER2 | 20.5 / 11.9 | Drainage Hose Size | 5/8” |
| **Heating** | | **Sound Pressure Level** | |
| Rated Capacity at 47° F | 10,000 BTU/H | Cooling (Low/High) | 24 / 43 dB(A) |
| Capacity Range | 2,400-12,000 BTU/H | Heating (Low/High) | 24 / 43 dB(A) |
| Rated Capacity @ 17°F | 10,000 BTU/H | **Dehumidification** | 1.69 pt/hr |
| Rated Capacity @ 5°F | 7,600 BTU/H | **OUTDOOR UNIT DATA** | |
| Power Input | 810 W | **Compressor** | |
| Power Input (Min/Max) | 190 / 1,210 W | Type | DC Inverter Rotary |
| HSPF2 (Region IV / V) | 8.8 / 6.8 | RLA | 6.5 A |
| COP @47°F / @5°F | 3.62 / 1.86 | **Fan Motor** | |
| **Operating Range** | | Output Power | 30 W |
| Cooling | 0°F ~ 118°F<br>-18°C ~ 48°C | FLA | 0.61 A |
| | | **Sound Pressure Level** | 47 dB(A) |
| Heating | -13°F ~ 75°F<br>-25°C ~ 24°C | **Refrigerant Piping Data** | |
| | | Liquid Pipe Size (OD) | 1/4-in |
| **Power Supply** | | Gas Pipe Size (OD) | 3/8-in |
| Rated | 115 V,<br>1 Phase, 60 Hz | Connection Method | Flared |
| Voltage Range | 103 - 126 V | Pre-Charged R32 Amount | 18.7 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 |

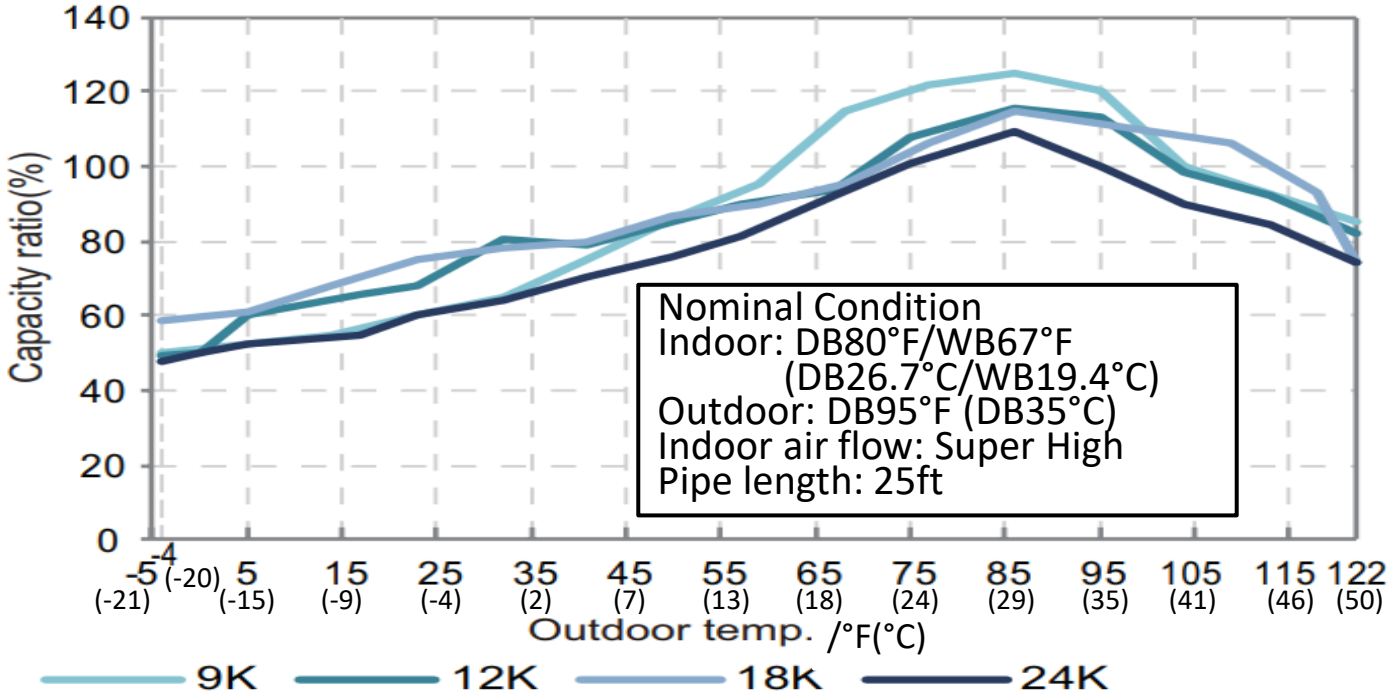
TOSOT.COM

# FEATURES & FUNCTION: TWH09CA32AI & TWH09CA32AO

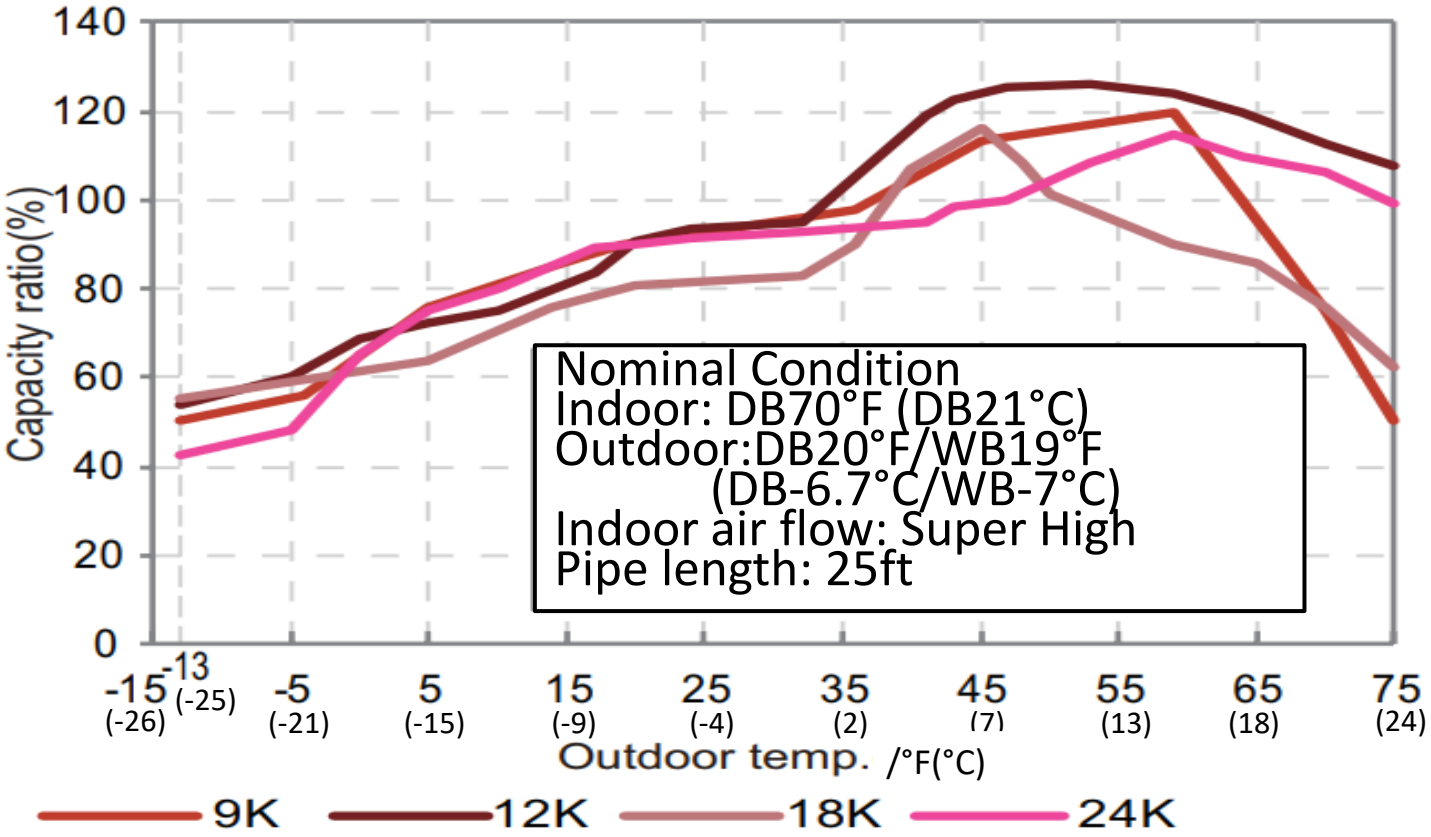
| SYSTEM FEATURES | |
|---|---|
| Ultra Low Frequency Torque Control | Yes |
| Power Factor Correction | Yes |
| Compressor Type | Rotary |
| Outdoor Unit Drain Pan / Chassis Electric Heater | YES |
| Indoor & Outdoor Fin Coating (Blue) | Acrylic Resin / Anti-Corrosion |
| Built-in Condensate Pump | 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: TWH09CA32AI & TWH09CA32AO

## Cooling capacity correction curve



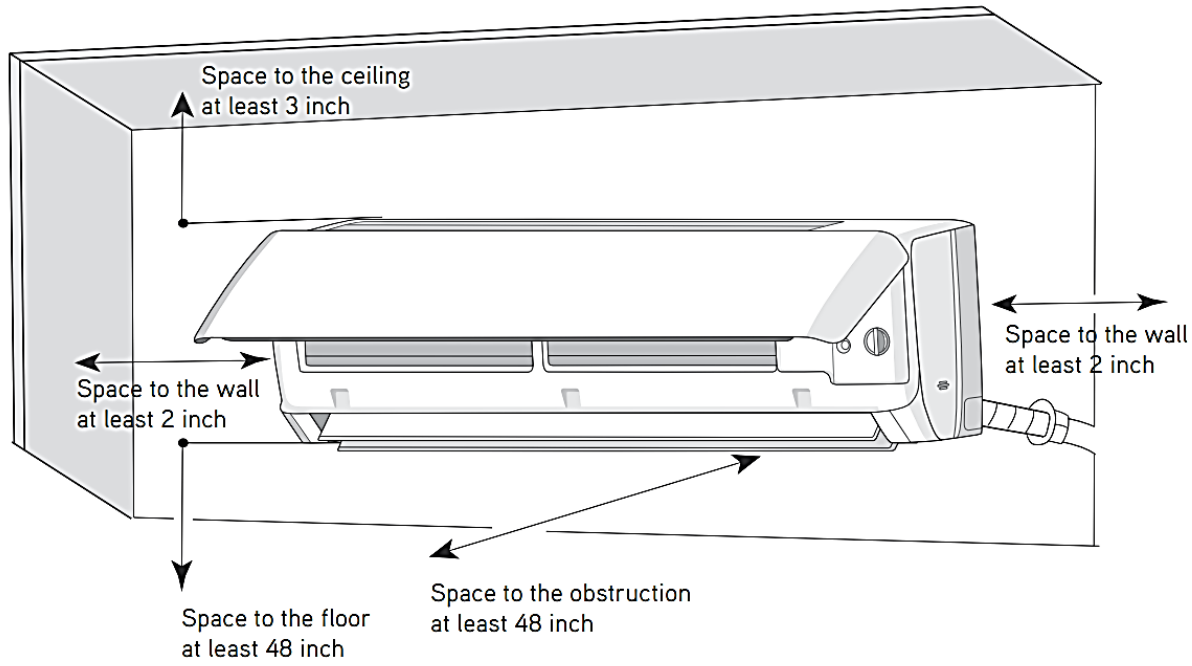

## Heating capacity correction curve



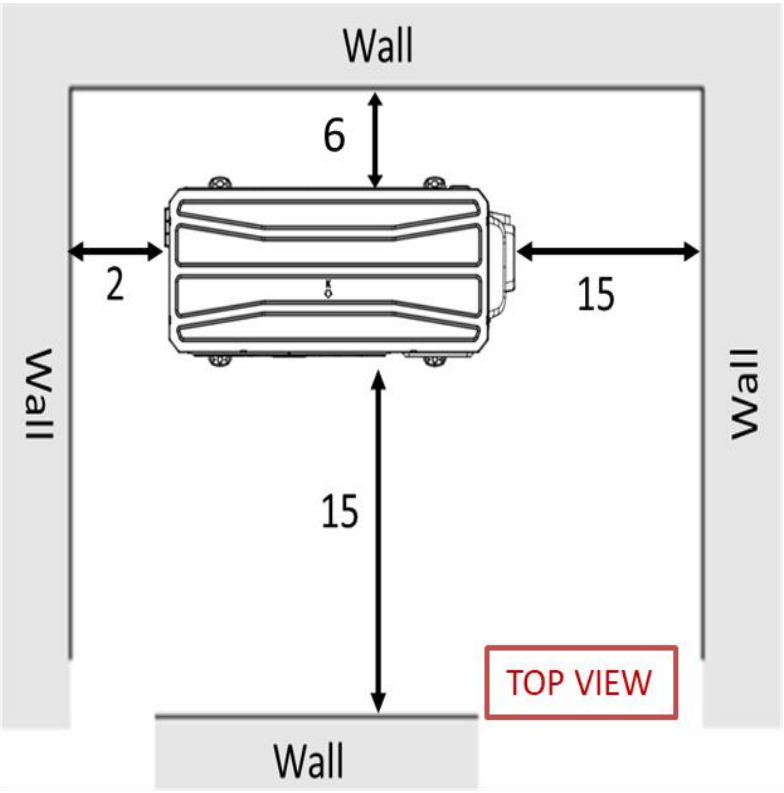
# SPACING REQUIREMENT: TWH09CA32AI & TWH09CA32AO

## INDOOR UNIT

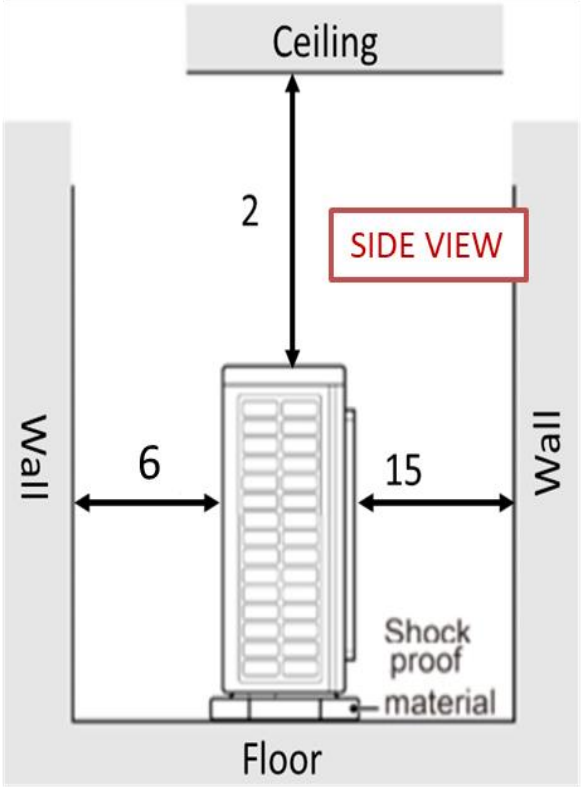
**Unit: inch**




## OUTDOOR UNIT




The ceiling should be open

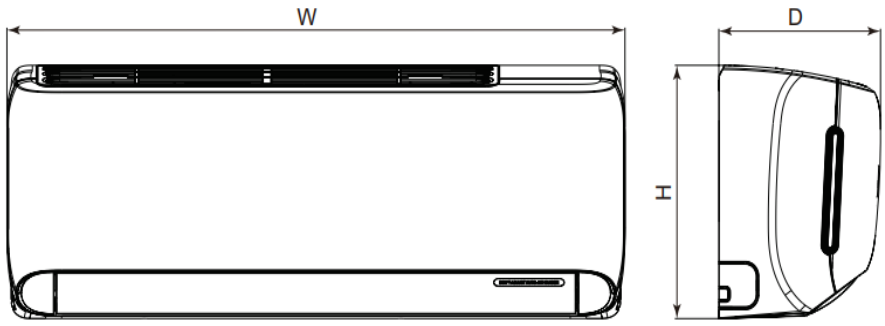


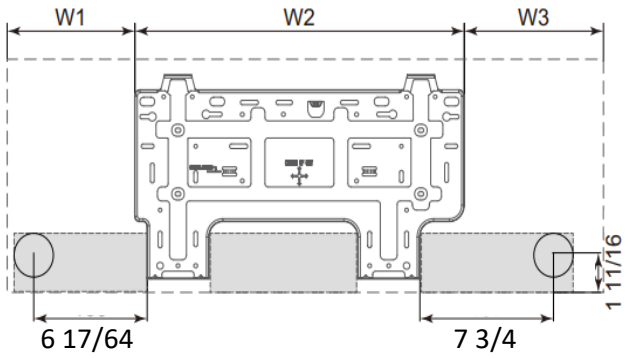

Either left or right side should be open

Note: Wall height on air outlet side ≤ 50inch

# DIMENSIONAL : TWH09CA32AI & TWH09CA32AO

## INDOOR UNIT



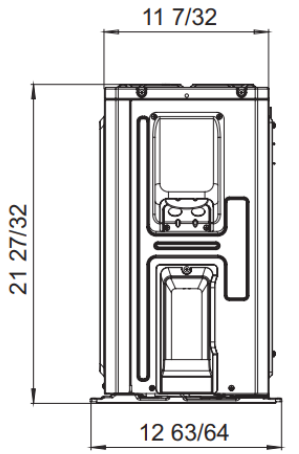

**Unit: inch**

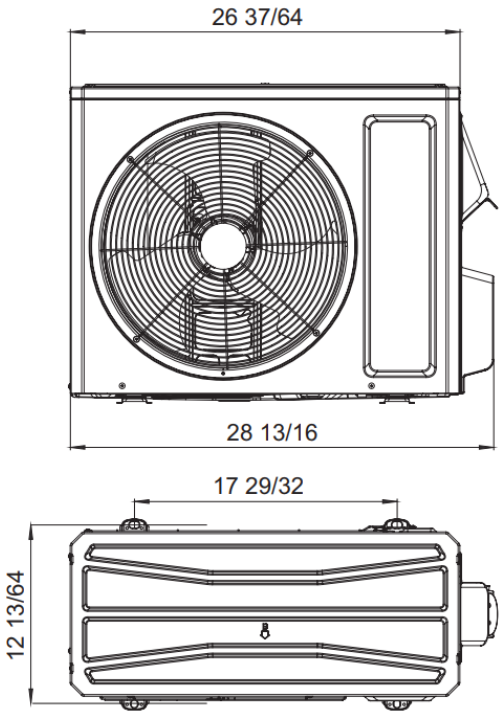
| Dimensions | |
|---|---|
| D | 7 7/8 |
| H | 10 53/64 |
| W | 32 7/8 |
| W1 | 7 3/64 |
| W2 | 18 5/32 |
| W3 | 7 11/16 |

**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)**
**55 / 61 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