

Single zone inverter mini split

MODEL: TW12HQ2A1D

TOSOT

Job Name:

Engineer Name:

System No:

- File Resubmit
 Approval Other

Location:

Contractor:

Date:

General Features

- Smart 1 Hertz Inverter Technology
- Low Ambient Cooling to 5 °F
- Multiple Fan Speeds
- Memory Function
- Fan Delay Function
- Intelligent Pre-heating / Defrost
- LED display
- Control lock
- Wi-Fi (Optional)
- Auto Clean
- Gold Fin Condenser
- Low Voltage Start-up
- High And Low Pressure Protection Features
- Load Protection Features
- Over-Current Protection
- Anti Freeze Protection



Unit Performance:

<i>Cooling:</i>	
Capacity (Min-Rated-Max, Btu/h)	3,100 -12,000-13,000
SEER	22
EER	12.5
<i>Heating:</i>	
Capacity (Min-Rated-Max, Btu/h)	2,400 -13,000- 14,000
HSPF	11
COP (W/W)	3.46

Unit Specification

Refrigerant Type	R410A
Refrigerant Charge (oz)	47.6
ODU Sound Pressure (dB(A))	54
IDU Sound Pressure (dB(A))	29 / 45
ODU Net Weight (lbs)	86
IDU Net Weight (lbs)	22
Dehumidifying (Pint/h)	2.96

Fan

ODU / IDU Type	Axial-flow/Cross-flow
Quantity (ODU + IDU)	1+1
Motor/Drive	Direct Drive
ODU Max Air Flow Rate (CFM)	1999.9
IDU Air Flow Rate (CFM)	171 / 400

Compressor

Cooling Operation Ambient temp. Range	0~115 °F
Heating Operation Ambient temp. Range	-5~75 °F
Compressor Type	Swing
Fan Motor Output (W)	30
Crankcase Heater	Yes

Electrical Specification

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 16
MOP (A)	15
MCA (A)	9
Cooling Rated Amps (A)	6
Heating Rated Amps (A)	6.3
Compressor RLA (A)	4
Indoor Fan Motor RLA (A)	0.09
Outdoor Fan Motor RLA (A)	
Nominal Cooling Power Input (kW)	9.6
Nominal Heating Power Input (kW)	1.1

Piping

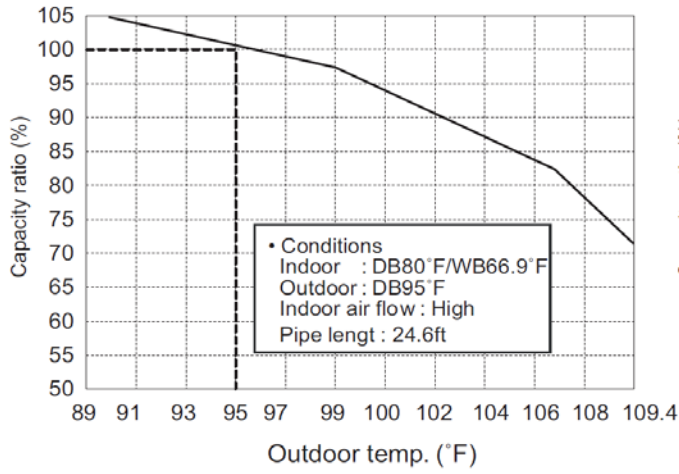
Liquid Line (in, OD)	1/4
Gas Line (in, OD)	1/2
Additional Refrigerant (oz./ft.)	0.215
Max Pipe Length (ft.)	65.6
Piping Length (no add'l refrigerant, ft.)	24.6
Max Elevation (ft.)	32.8

AHRI certification Ref #

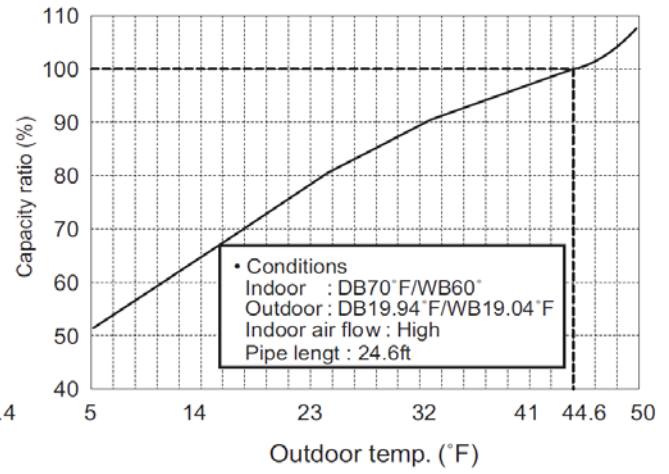


Capacity Variation Ratio According to Temperature

Cooling



Heating

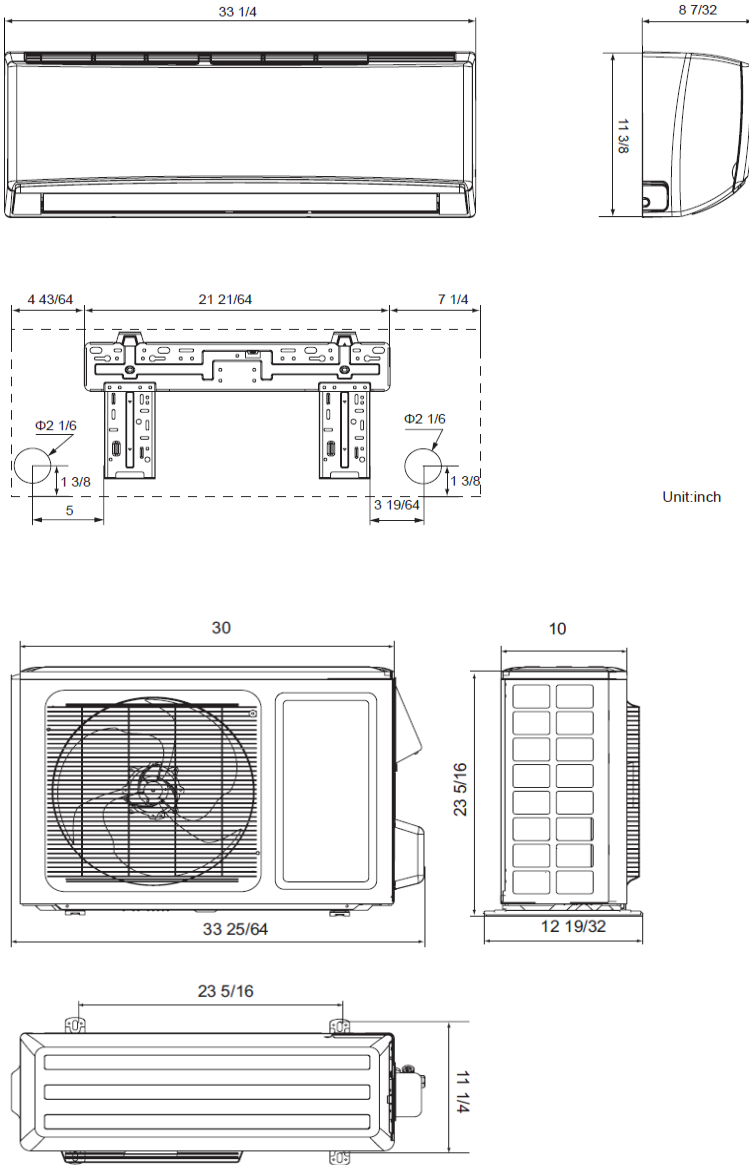


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Outline Dimension Diagram



GLOSSARY

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

HSPF - Heating Seasonal Performance Factor

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

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