

Single zone inverter mini split

MODEL: TW12HQ1A5D

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
- 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)	3,753-12,000-12,500
SEER	16
EER	9.23
<i>Heating:</i>	
Capacity (Min-Rated-Max, Btu/h)	3,924-13,000-14,000
HSPF	9
COP (W/W)	3.05

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**Unit Specification**

Refrigerant Type	R410A
Refrigerant Charge (oz)	30
ODU Sound Pressure (dB(A))	53
IDU Sound Pressure (dB(A))	45/39/35/29
ODU Net Weight (lbs)	69
IDU Net Weight (lbs)	23.1
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)	942
IDU Air Flow Rate (CFM)	194 / 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)	6.7
Compressor RLA (A)	4
Indoor Fan Motor RLA (A)	0.21
Outdoor Fan Motor RLA(A)	0.36
Nominal Cooling Power Input (kW)	1.3
Nominal Heating Power Input (kW)	1.25

*Piping*

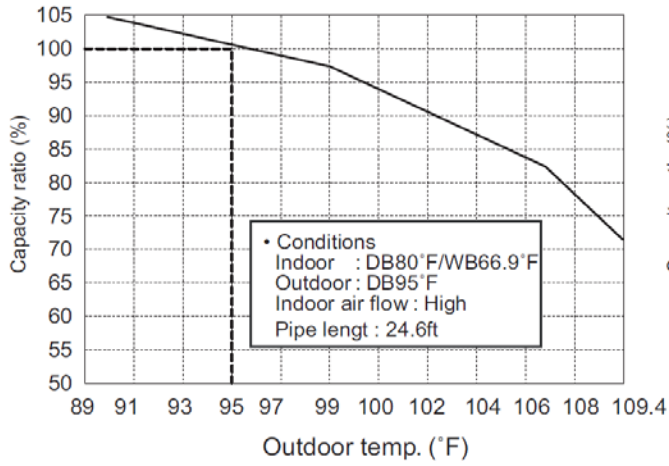
Liquid Line (in, OD)	1/4
Gas Line (in, OD)	3/8
Additional Refrigerant (oz./ft.)	0.215
Max Pipe Length (ft.)	49.2
Piping Length (no add'l refrigerant, ft.)	24.6
Max Elevation (ft.)	32.8

AHRI certification Ref #	9110196
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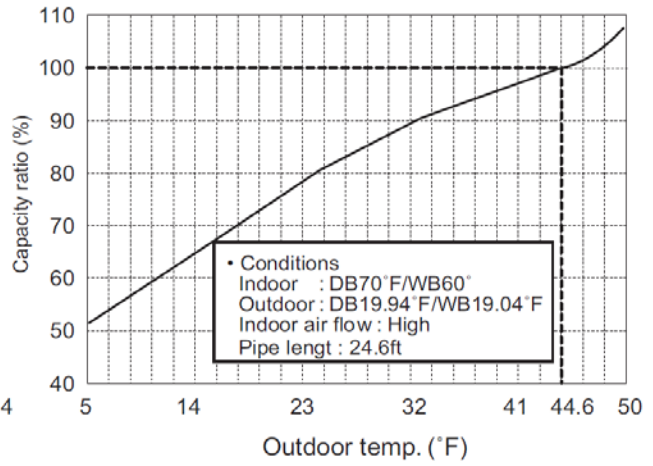


**Capacity Variation Ratio According to Temperature**

**Cooling**



**Heating**

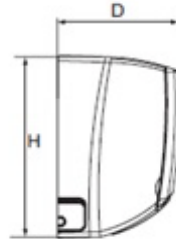
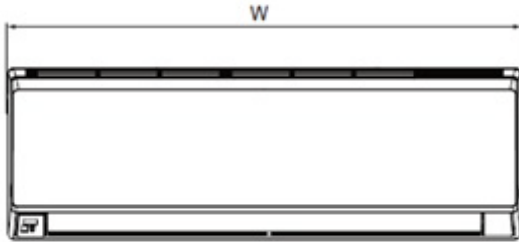


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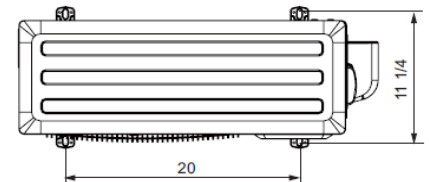
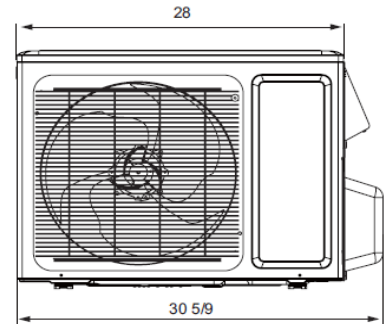
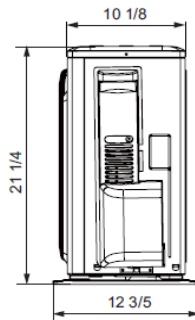
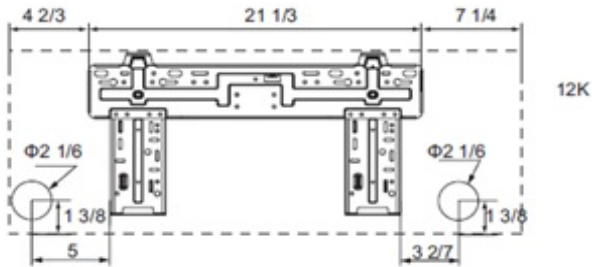
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**Outline Dimension Diagram**



W	H	D
33 1/4	11 3/8	8 2/9



**GLOSSARY**

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

HSPF - Heating Seasonal Performance Factor

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

**TOSOT**

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