TOSOT

SUPER HEAT / SUPER COOL

SMART TECH BUILT FOR BEST HOUSES ECOLOGY

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

SUBMITTAL DATA: TW12HXP2A1D

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

AHRI CERTIFIED REF	**211177521**
ENERGY STAR NUMBER	**2409853**





YAA1FB8 (Standard)



SQZ00 (Optional)



XE72-44/E (Optional)



XE71-00/E (Optional)



SYSTEM RATINGS			INDOOR UNIT DATA	
Cooling			**Fan Motor**	
Rated Capacity @ 95° F		12,000 BTU/H	Type	Cross-flow
Capacity Range		3,070-14,098 BTU/H	Output Power	15W
Power Input		961 W	FLA	0.22A
Power Input (Min/Max)		220/1,400 W	Fan Speeds	7
SEER2 / EER2		24.0 / 12.5	Air flow (Min/Max)	230/400 CFM
Heating			**Sound Pressure Level**	
Rated Capacity @ 47° F		12,000 BTU/H	Cooling (Low/High)	27/43 dB(A)
Capacity Range		3,070-15,500 BTU/H	Heating (Low/High)	27/43 dB(A)
Power Input		923 W	Dehumidification	2.96 pt/hr
Rated Capacity @ 17° F		10,000 BTU/H	**OUTDOOR UNIT DATA**	
Rated Capacity @ 5° F		9,000 BTU/H	**Compressor**	
Power Input (Min/Max)		220 / 1,500 W	Type	DC Inverter Rotary
HSPF2 (Region IV / V)		9.0 / 7.4	RLA	6.8 A
COP @47°F / @5°F		3.78 / 1.84	**Fan Motor**	
			Output Power	30 W
Operating Range			RLA	0.4 A
Cooling	(Max)	122°F (50°C)	**Sound Pressure Level**	48 dB(A)
	(Min)	-20°F (-29°C)	**Refrigerant Piping Data**	
Heating	(Max)	86°F (30°C)	Liquid Pipe Size (OD)	1/4-in
	(Min)	-22°F (-30°C)	Gas Pipe Size (OD)	1/2-in
Power Supply			Connection Method	Flared
Range		208/230 V, 1 Phase, 60 Hz	Factory Charge	R410A/42.3 oz
Voltage Range		187 - 253 V	Additional Charge	0.215 oz/ft
Main Power Wire Size		14-2 AWG	Pre-Charge Length	25-ft
Wire Size between IDU & ODU		14-4 AWG	MAX Refrigerant Pipe Length	66-ft
MCA		10 A	MIN Refrigerant Pipe Length	10-ft
MOCP / Max Breaker Size		15 A	MAX Refrigerant Pipe Height Difference	40-ft

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FEATURES & FUNCTION SUMMARY: TW12HXP2A1D

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	YES
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, SQZ003
Auto Swing	Horizontal + Vertical
Intelligent Defrosting	YES

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EXTENDED RATINGS: TW12HXP2A1D

HEATING PERFORMANCE

Outdoor Ambient Temperature (DB)		Return Air Temperature											
		70°F (DB) / 59°F (WB)			75°F (DB) / 63°F (WB)			80°F (DB) / 67°F (WB)			90°F (DB) / 73°F (WB)		
		TC (Btu/h)	COP (W/W)	Power Input (W)	TC (Btu/h)	COP (W/W)	SHRPower Input (W)	TC (Btu/h)	COP (W/W)	Power Input (W)	TC (Btu/h)	COP (W/W)	SHRPower Input (W)
MAXOUTPUT*	-22°F	6,101	2.05	950	6,405	2.11	968	6,709	2.16	988	7,013	2.22	1,008
	-13°F	6,532	2.15	969	6,836	2.20	988	7,139	2.26	1,008	7,443	2.31	1,028
	-4°F	7,291	2.35	989	7,595	2.40	1,008	7,899	2.44	1,029	8,203	2.49	1,049
	0 °F	8,355	2.64	1,009	8,658	2.68	1,029	8,962	2.72	1,050	9,266	2.76	1,071
	6 °F	8,810	2.73	1,029	9,114	2.76	1,050	9,418	2.80	1,071	9,722	2.84	1,092
	10 °F	9,114	2.76	1,050	9,418	2.80	1,071	9,722	2.83	1,093	10,025	2.86	1,115
	16 °F	10,127	3.01	1,072	10,431	3.04	1,093	10,734	3.07	1,115	11,038	3.09	1,137
	19°F	10,333	3.01	1,094	10,643	3.04	1,116	10,953	3.07	1,138	11,263	3.09	1,161
	24 °F	11,393	3.25	1,116	11,696	3.27	1,138	12,000	3.29	1,161	12,304	3.31	1,184
	32°F	11,544	3.23	1,139	11,848	3.25	1,162	12,152	3.27	1,185	12,456	3.28	1,209
	41°F	14,431	3.96	1,162	14,734	3.96	1,185	15,038	3.96	1,209	15,342	3.96	1,233
	43°F	14,886	4.00	1,186	15,190	4.00	1,210	15,494	4.00	1,234	15,798	4.00	1,258
	47 °F	15,190	4.00	1,210	15,494	4.00	1,234	15,798	4.00	1,259	16,101	3.99	1,284
	53°F	15,342	3.92	1,246	15,646	3.92	1,271	15,950	3.92	1,297	16,253	3.91	1,323
	59°F	15,494	3.84	1,284	15,798	3.84	1,309	16,101	3.84	1,336	16,405	3.84	1,362
	64°F	15,950	3.84	1,322	16,253	3.84	1,349	16,557	3.83	1,376	16,861	3.83	1,403
	70°F	16,405	3.84	1,362	16,709	3.83	1,389	17,013	3.82	1,417	17,317	3.82	1,445
	75 °F	16,861	3.83	1,403	17,165	3.82	1,431	17,469	3.81	1,459	17,772	3.80	1,489
	78 °F	17,469	3.85	1,445	17,772	3.84	1,474	18,076	3.83	1,503	18,380	3.82	1,533

*Maximum Output values are not based on AHRI test conditions

LEGEND:	W - Watts
	DB - Dry Bulb
	TC - Total Capacity
	SC - Sensible Capacity
	SHR - Sensible Heat Ratio
	COP - Coeffecient of Performance

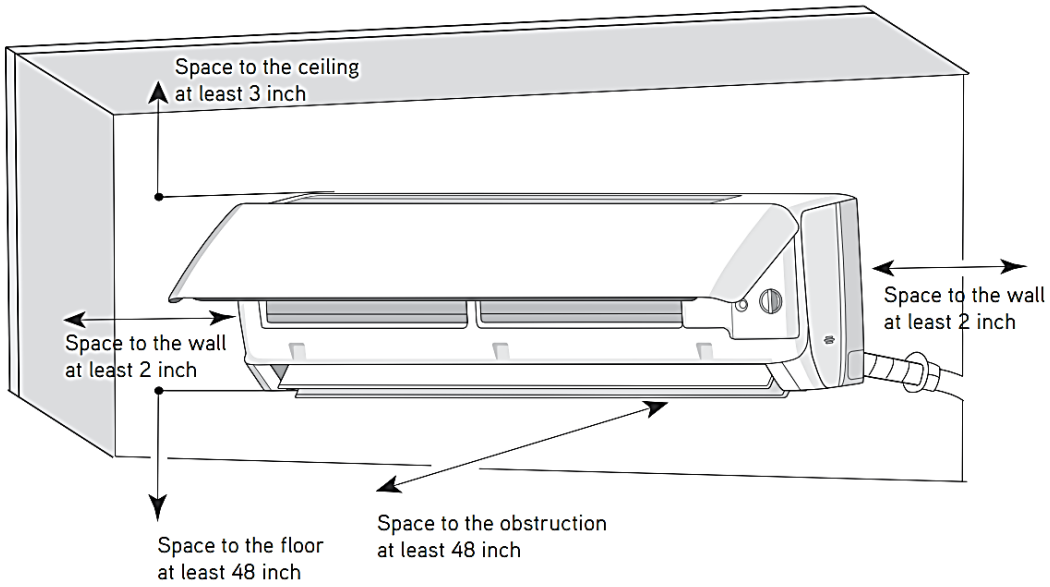
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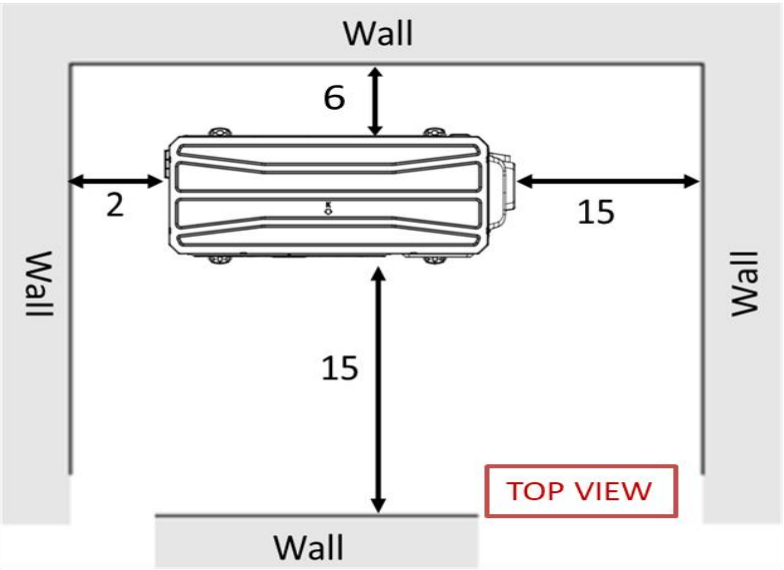
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DIMENSIONAL SPECIFICATIONS: TW12HXP2A1D

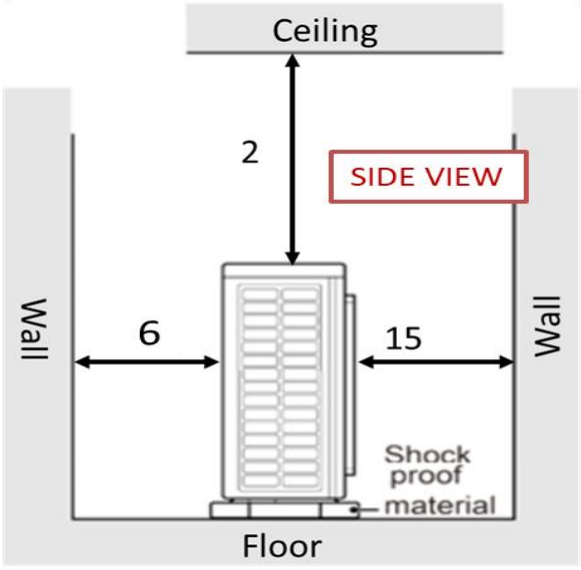
MINIMUM SPACING REQUIREMENTS

Unit: inch





The ceiling should be open



Either left or right side should be open

Note:

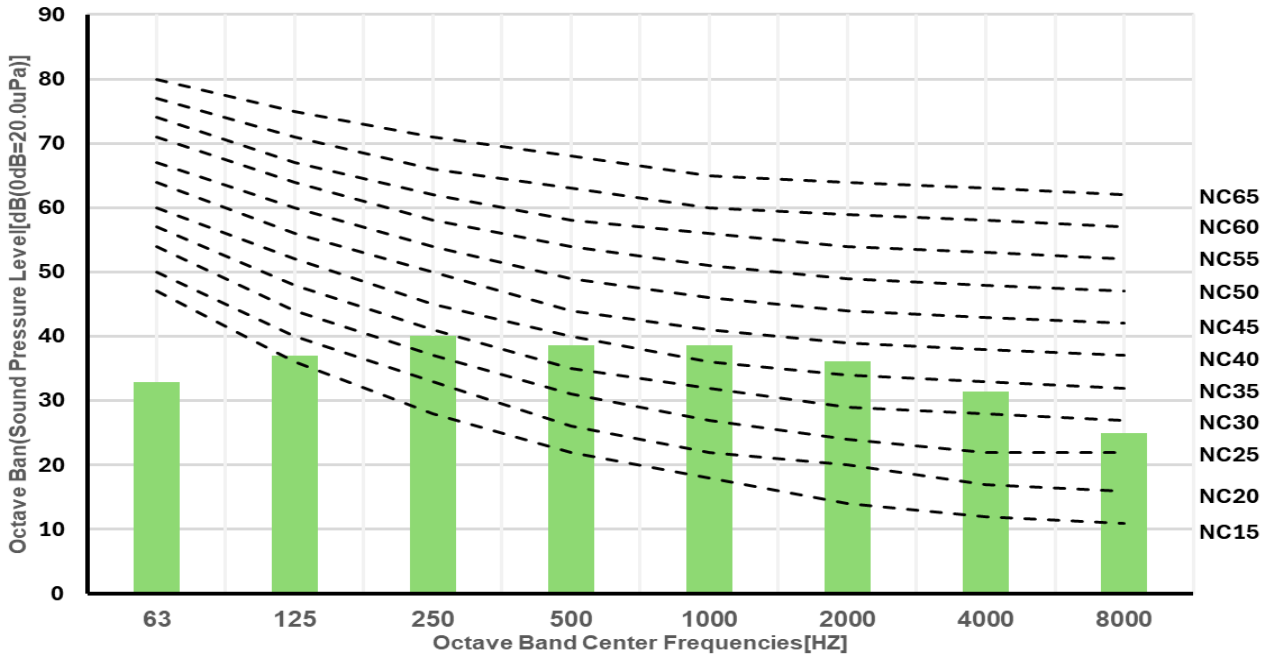
1. Apply the value in the brackets to achieve best performance
2. Wall height on air outlet side ≤ 50inch

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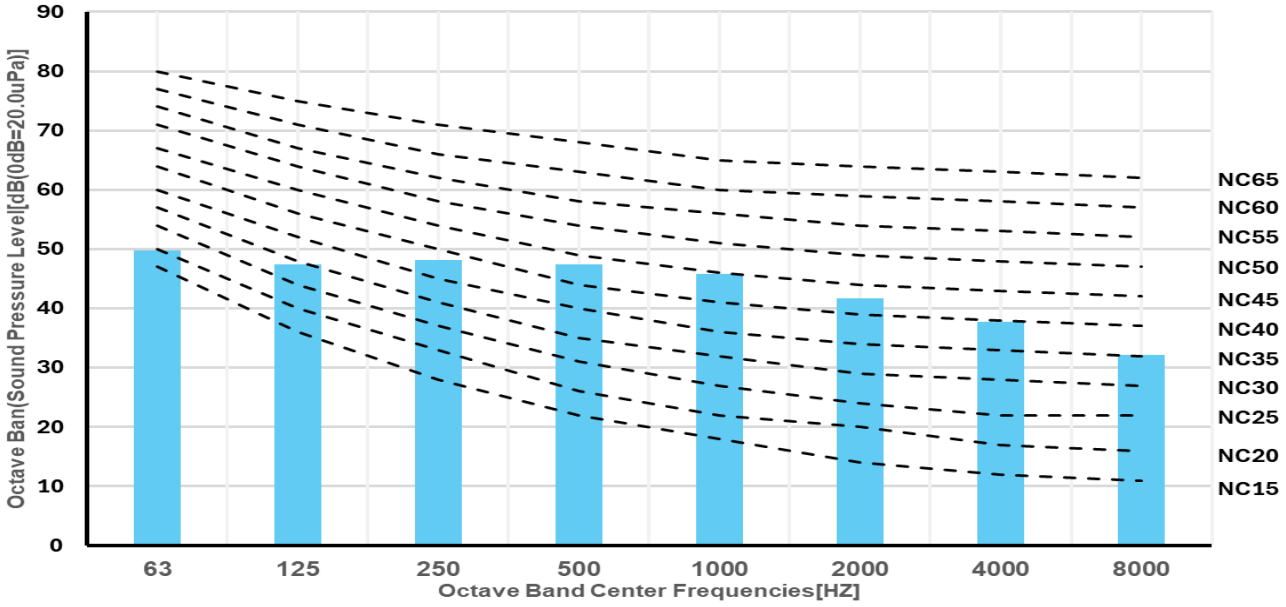
SOUND POWER DATA: TW12HXP2A1D

ACOUSTIC OCTAVE-BAND SOUND POWER DATA

INDOOR UNIT



OUTDOOR UNIT

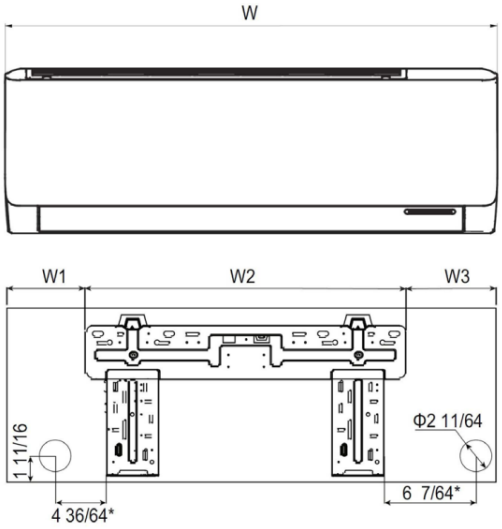


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DIMENSIONAL SPECIFICATIONS: TW12HXP2A1D

INDOOR UNIT DIMENSIONS

Model No: TW12HXP2A1DI



Units: inch

Dimensions	
D	7 23/32
H	11 17/32
W	32 31/64
W1	4 29/64
W2	21 11/32
W3	6 11/16

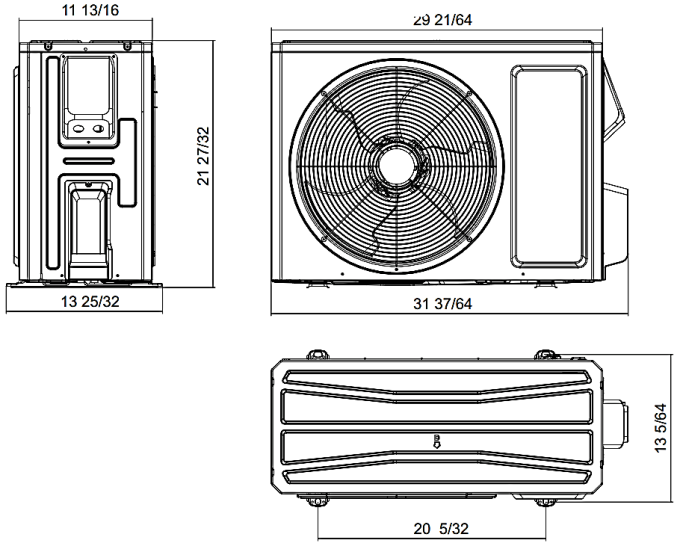
Weight (Net/Shipping) 21 / 26 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

OUTDOOR UNIT DIMENSIONS

Model No: TW12HXP2A1DO

Unit: inch



Weight (Net/Shipping) 71 /76 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared

Notes:

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Copper Conductors Wire
2. Power wiring cable size must comply with applicable national and local codes
3. Test conditions are based on AHRI 210/240.

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