SUPER HEAT / SUPER COOL

SMART TECH BUILT FOR BEST HOUSES ECOLOGY

24,000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

SUBMITTAL DATA: TW24HXP2A1D

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

AHRI CERTIFIED REF	211177523
ENERGY STAR NUMBER	2409848





YAA1FB8
(Standard)



SQZ00
(Optional)



XE72-44/E
(Optional)



XE71-00/E
(Optional)



SYSTEM RATINGS			INDOOR UNIT DATA	
Cooling			**Fan Motor**	
Rated Capacity @ 95° F		22,000 BTU/H	Type	Cross-flow
Capacity Range		8,870-28,000 BTU/H	Output Power	60W
Power Input		1,679 W	FLA	0.30A
Power Input (Min/Max)		290 / 2,600 W	Fan Speeds	7
SEER2 / EER2		24.5 / 13.1	Air flow (Min/Max)	383/736 CFM
Heating			**Sound Pressure Level**	
Rated Capacity @ 47° F		24,000 BTU/H	Cooling (Low/High)	34/52 dB(A)
Capacity Range		7,200-30,708 BTU/H	Heating (Low/High)	34/52 dB(A)
Power Input		1,870 W	Dehumidification	5.07 pt/hr
Rated Capacity @ 17° F		19,400 BTU/H	**OUTDOOR UNIT DATA**	
Rated Capacity @ 5° F		17,000 BTU/H	**Compressor**	
Power Input (Min/Max)		470 /3,100 W	Type	DC Inverter Rotary
HSPF2 (Region IV / V)		9.5 / 7.5	RLA	11.0 A
COP @47°F / @5°F		3.76 / 1.75	**Fan Motor**	
			Output Power	60 W
Operating Range			RLA	0.6 A
Cooling	(Max)	122°F (50°C)	**Sound Pressure Level**	54 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)	5/8-in
Power Supply			Connection Method	Flared
Range		208/230 V, 1 Phase, 60 Hz	Factory Charge	R410A/60 oz
Voltage Range		187 - 253 V	Additional Charge	0.5 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	131-ft
MCA		16 A	MIN Refrigerant Pipe Length	10-ft
MOCP / Max Breaker Size		25 A	MAX Refrigerant Pipe Height Difference	82-ft

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FEATURES & FUNCTION SUMMARY: TW24HXP2A1D

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: TW24HXP2A1D

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	15,311	2.13	2,292	14,852	1.98	2,385	14,622	1.91	2,433	14,316	1.84	2,482
	-13°F	16,250	2.21	2,338	15,763	2.06	2,434	15,519	1.99	2,483	15,194	1.91	2,532
	-4°F	17,909	2.39	2,386	17,371	2.23	2,484	17,103	2.15	2,533	16,745	2.06	2,584
	0 °F	17,960	2.35	2,435	17,421	2.19	2,534	17,152	2.11	2,585	16,793	2.03	2,637
	6 °F	19,225	2.46	2,485	18,648	2.30	2,586	18,360	2.22	2,638	17,975	2.13	2,690
	10 °F	20,768	2.61	2,535	20,145	2.43	2,639	19,834	2.35	2,692	19,418	2.25	2,745
	16 °F	21,989	2.71	2,587	21,330	2.52	2,693	21,000	2.44	2,746	20,560	2.34	2,801
	19°F	22,205	2.68	2,640	21,538	2.50	2,748	21,205	2.41	2,803	20,761	2.31	2,859
	24 °F	23,521	2.78	2,694	22,815	2.59	2,804	22,463	2.50	2,860	21,992	2.40	2,917
	32°F	24,174	2.80	2,749	23,449	2.61	2,861	23,086	2.52	2,918	22,603	2.42	2,976
	41°F	27,496	3.12	2,805	26,671	2.91	2,919	26,258	2.81	2,978	25,708	2.70	3,037
	43°F	31,491	3.50	2,862	30,546	3.27	2,979	30,074	3.15	3,038	29,444	3.03	3,099
	47 °F	32,154	3.51	2,920	31,189	3.27	3,040	30,707	3.15	3,100	30,064	3.03	3,162
	53°F	33,486	3.55	3,008	32,481	3.30	3,131	31,979	3.19	3,193	31,309	3.06	3,257
	59°F	35,817	3.68	3,098	34,743	3.43	3,225	34,205	3.31	3,289	33,489	3.18	3,355
	64°F	35,712	3.56	3,191	34,641	3.32	3,321	34,105	3.21	3,388	33,391	3.08	3,456
	70°F	33,907	3.29	3,287	32,890	3.06	3,421	32,381	2.96	3,490	31,703	2.84	3,559
	75 °F	32,802	3.09	3,386	31,818	2.88	3,524	31,326	2.78	3,594	30,670	2.66	3,666
	78 °F	30,128	2.75	3,487	29,225	2.56	3,629	28,773	2.48	3,702	28,170	2.38	3,776

*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

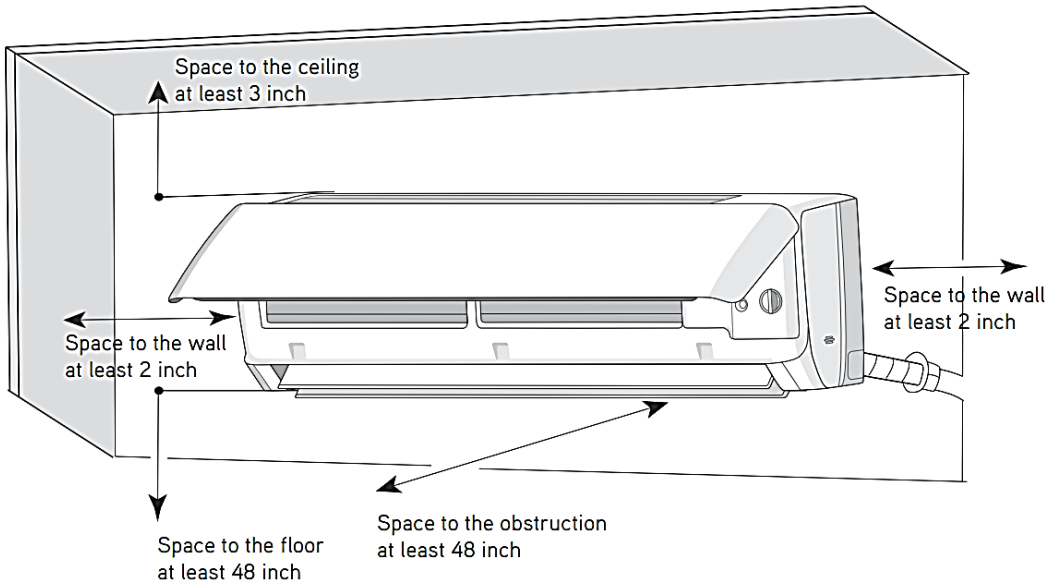
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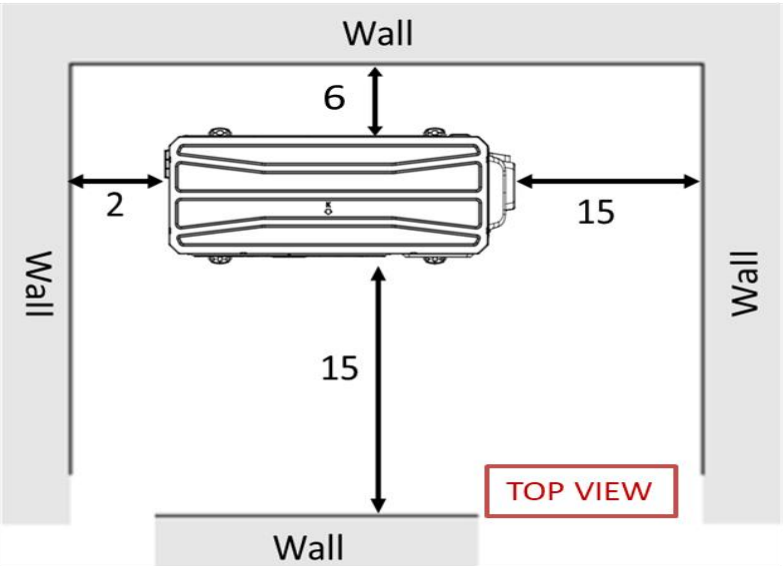
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DIMENSIONAL SPECIFICATIONS: TW24HXP2A1D

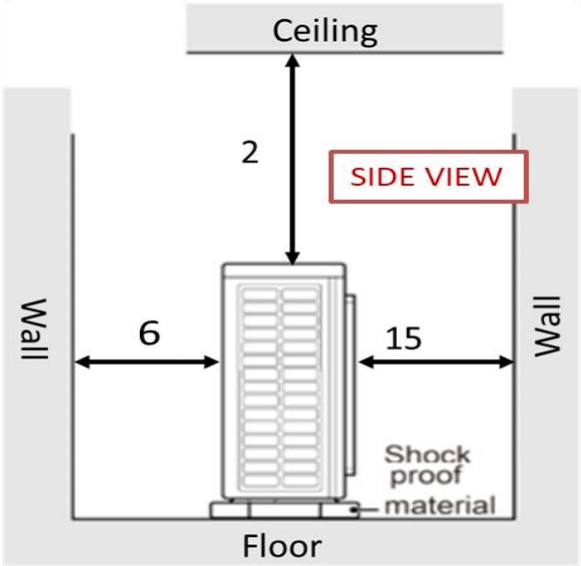
MINIMUM SPACING REQUIREMENTS

Unit: inch





The ceiling should be open



Either left or right side should be open

Note:

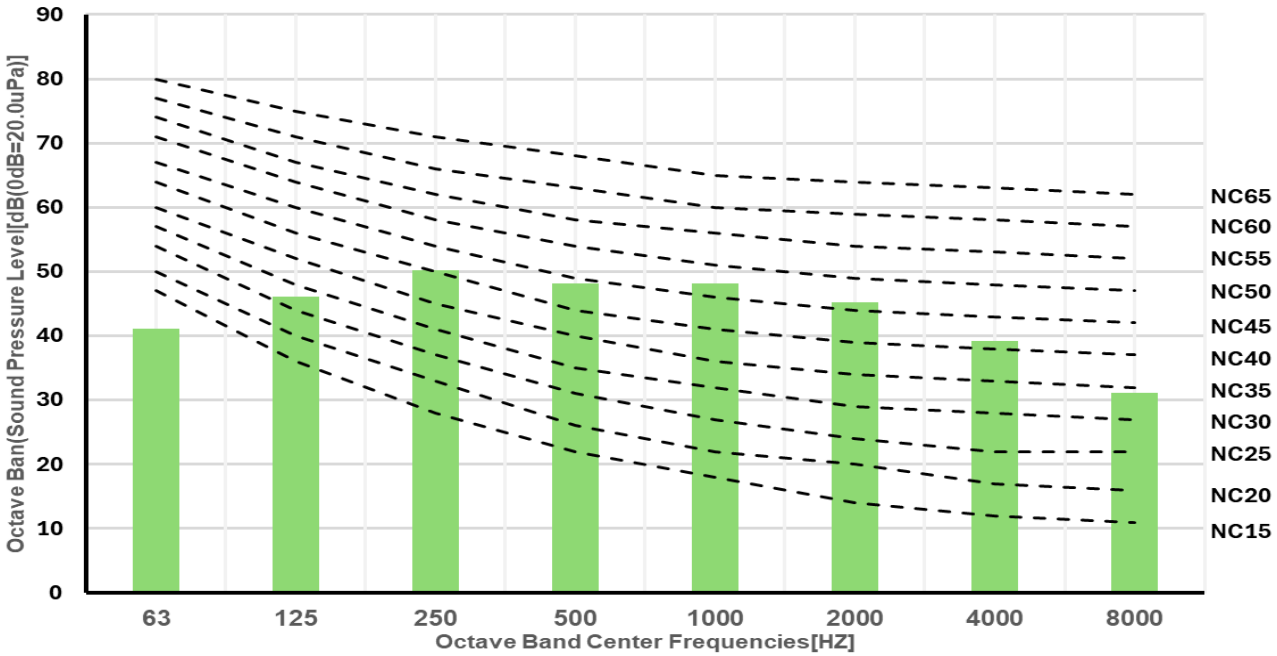
1. Apply the value in the brackets to achieve best performance
2. Wall height on air outlet side ≤ 50inch

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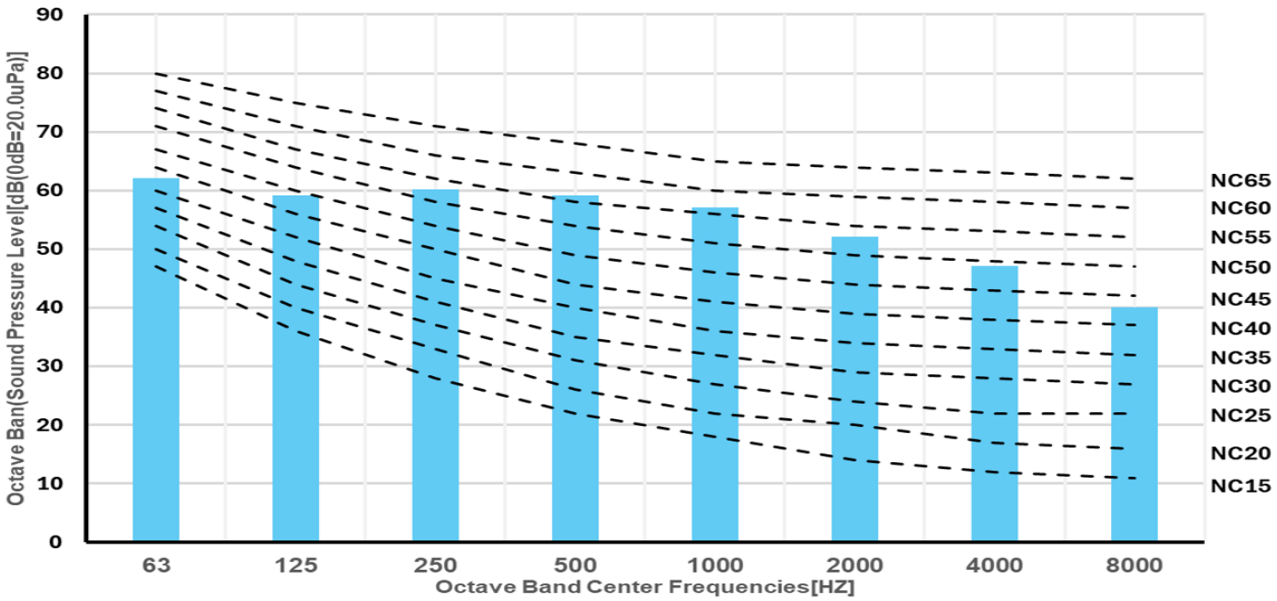
SOUND POWER DATA: TW24HXP2A1D

ACOUSTIC OCTAVE-BAND SOUND POWER DATA

INDOOR UNIT



OUTDOOR UNIT

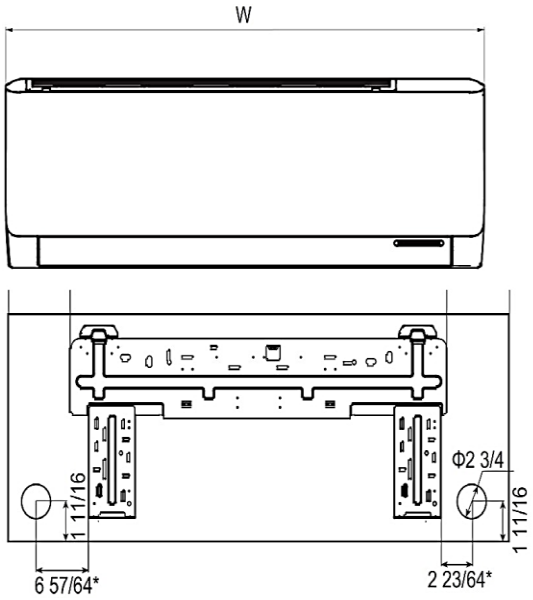


R410A INVERTER Intertek AHRI CERTIFIED COLD CLIMATE

DIMENSIONAL SPECIFICATIONS: TW24HXP2A1D

INDOOR UNIT DIMENSIONS

Model No: TW24HXP2A1DI



Unit: inch

Dimensions	
D	9 11/16
H	13 7/64
W	42 21/64
W1	7 7/32
W2	27 55/64
W3	7 1/4

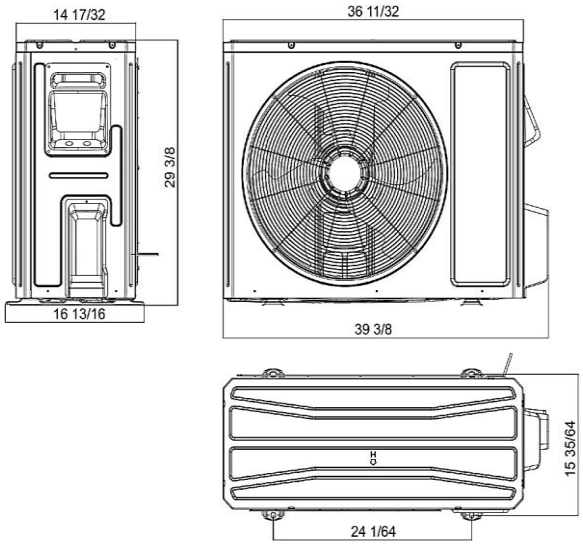
Weight (Net/Shipping)36 / 42 LBS

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

OUTDOOR UNIT DIMENSIONS

Model No: TW24HXP2A1DO

Unit: inch



Weight (Net/Shipping) 126 /137 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	5/8-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.