SUPER HEAT / SUPER COOL

SMART TECH BUILT FOR BEST HOUSES ECOLOGY

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

SUBMITTAL DATA: TW09HXP2A1D

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

AHRI CERTIFIED REF	**211177520**
ENERGY STAR NUMBER	**NA**





YAA1FB8 (Standard)



SQZ00 (Optional)



XE72-44/E (Optional)



XE71-00/E (Optional)



SYSTEM RATINGS			INDOOR UNIT DATA	
Cooling			**Fan Motor**	
Rated Capacity @ 95° F		9,100 BTU/H	Type	Cross-flow
Capacity Range		1,535-10,747 BTU/H	Output Power	15W
Power Input		619 W	FLA	0.22A
Power Input (Min/Max)		130 / 1,013 W	Fan Speeds	7
SEER2 / EER2		25.5 / 14.7	Air flow (Min/Max)	159/353 CFM
Heating			**Sound Pressure Level**	
Rated Capacity @ 47° F		10,500 BTU/H	Cooling (Low/High)	25/40 dB(A)
Capacity Range		3,412-14,671 BTU/H	Heating (Low/High)	25/40 dB(A)
Power Input		788 W	Dehumidification	1.69 pt/hr
Rated Capacity @ 17° F		8,600 BTU/H	**OUTDOOR UNIT DATA**	
Rated Capacity @ 5° F		9,100 BTU/H	**Compressor**	
Power Input (Min/Max)		228 / 1,343 W	Type	DC Inverter Rotary
HSPF2 (Region IV / V)		10.2 / 7.4	RLA	6.5 A
COP @47°F / @5°F		3.90 / 1.86	**Fan Motor**	
			Output Power	30 W
Operating Range			RLA	0.4 A
Cooling	(Max)	122°F (50°C)	**Sound Pressure Level**	47 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)	3/8-in
Power Supply			Connection Method	Flared
Rated		208/230 V, 1 Phase, 60 Hz	Factory Charge	R410A 35.3 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: TW09HXP2A1D

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

R410A INVERTER Intertek AHRI CERTIFIED ENERGY STAR COLD CLIMATE

EXTENDED RATINGS: TW09HXP2A1D

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	5,840	1.12	1,659	6,132	1.15	1,692	6,424	1.19	1,726	6,570	1.19	1,761
	-13°F	6,278	1.17	1,706	6,570	1.20	1,741	6,862	1.23	1,775	7,008	1.23	1,811
	-4°F	7,008	1.27	1,754	7,300	1.30	1,789	7,592	1.33	1,825	7,738	1.32	1,861
	0 °F	9,490	1.69	1,785	9,782	1.71	1,821	10,074	1.73	1,858	10,220	1.72	1,895
	6 °F	10,950	1.92	1,817	11,242	1.93	1,853	11,534	1.94	1,890	11,680	1.93	1,928
	10 °F	11,680	2.12	1,754	11,972	2.13	1,789	12,264	2.14	1,825	12,410	2.12	1,861
	16 °F	12,994	2.38	1,738	13,286	2.39	1,773	13,578	2.39	1,808	13,724	2.37	1,844
	19°F	13,140	2.52	1,659	13,432	2.53	1,692	13,724	2.53	1,726	13,870	2.51	1,761
	24 °F	13,286	2.63	1,612	13,578	2.63	1,644	13,870	2.63	1,677	14,016	2.61	1,710
	32°F	13,578	2.71	1,596	13,870	2.71	1,628	14,162	2.72	1,660	14,308	2.69	1,693
	41°F	13,870	2.91	1,517	14,162	2.92	1,547	14,454	2.92	1,578	14,600	2.89	1,610
	43°F	14,308	2.94	1,548	14,600	2.94	1,579	14,892	2.94	1,611	15,038	2.91	1,643
	47 °F	14,600	2.94	1,580	14,892	2.94	1,612	15,184	2.94	1,644	15,330	2.91	1,677
	53°F	15,768	3.09	1,627	16,060	3.08	1,660	16,352	3.08	1,693	16,498	3.04	1,727
	59°F	16,790	3.19	1,675	17,082	3.18	1,708	17,374	3.18	1,742	17,520	3.14	1,777
	64°F	16,060	2.97	1,722	16,352	2.96	1,757	16,644	2.96	1,792	16,790	2.93	1,828
	70°F	15,476	2.84	1,738	15,768	2.83	1,773	16,060	2.83	1,808	16,206	2.80	1,844
	75 °F	14,454	2.62	1,754	14,746	2.63	1,789	15,038	2.62	1,825	15,184	2.60	1,861
	78 °F												

*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

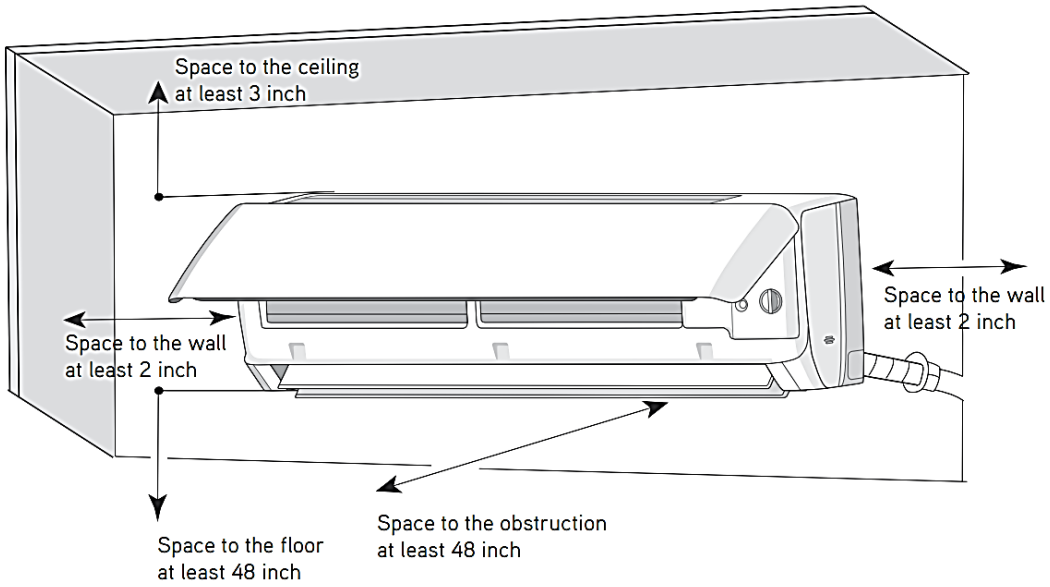
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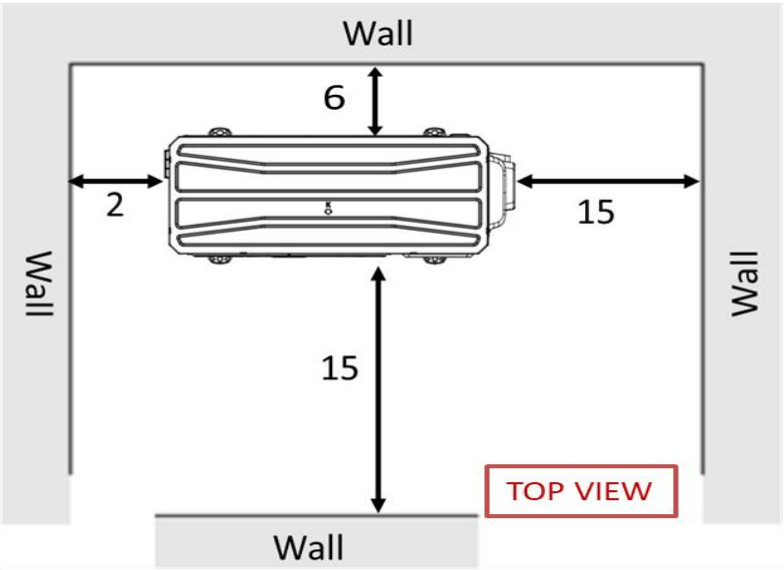
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DIMENSIONAL SPECIFICATIONS: TW09HXP2A1D

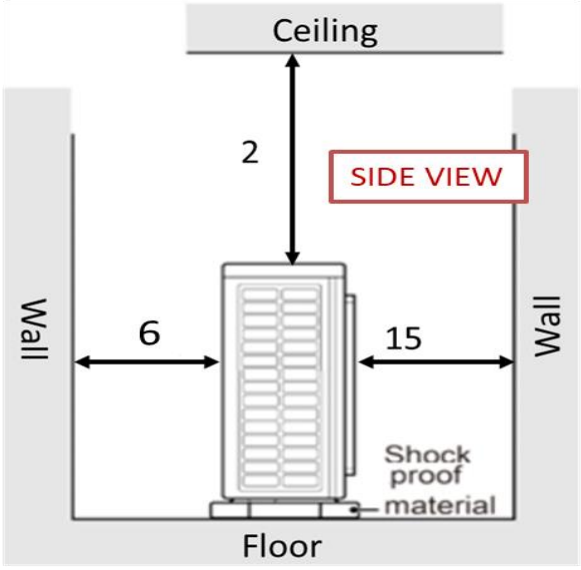
MINIMUM SPACING REQUIREMENTS

Unit: inch





The ceiling should be open



Either left or right side should be open

Note:

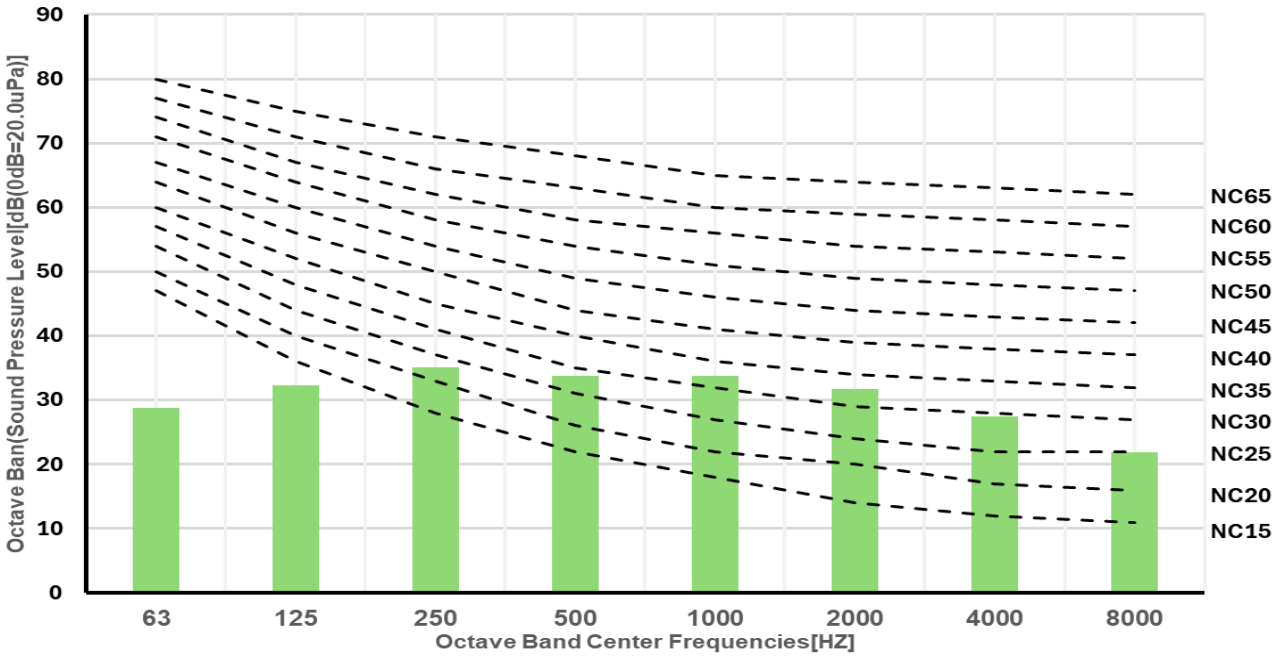
1. Apply the value in the brackets to achieve best performance
2. Wall height on air outlet side ≤ 50inch

R410A INVERTER Intertek AHRI CERTIFIED COLD CLIMATE

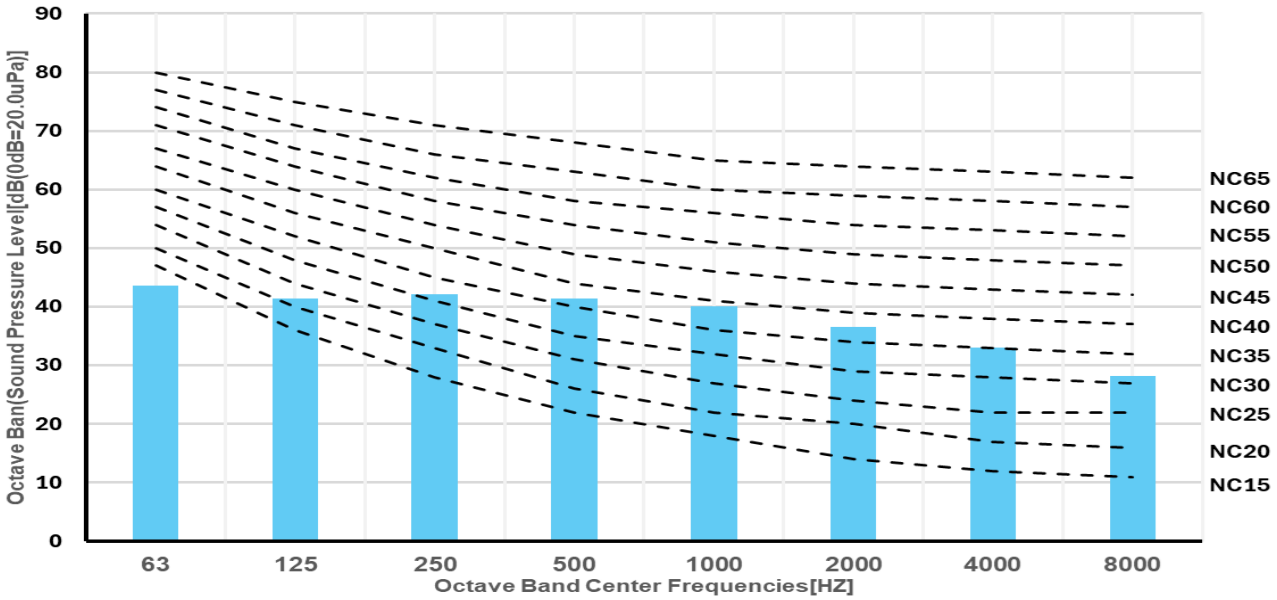
SOUND POWER DATA: TW09HXP2A1D

ACOUSTIC OCTAVE-BAND SOUND POWER DATA

INDOOR UNIT



OUTDOOR UNIT

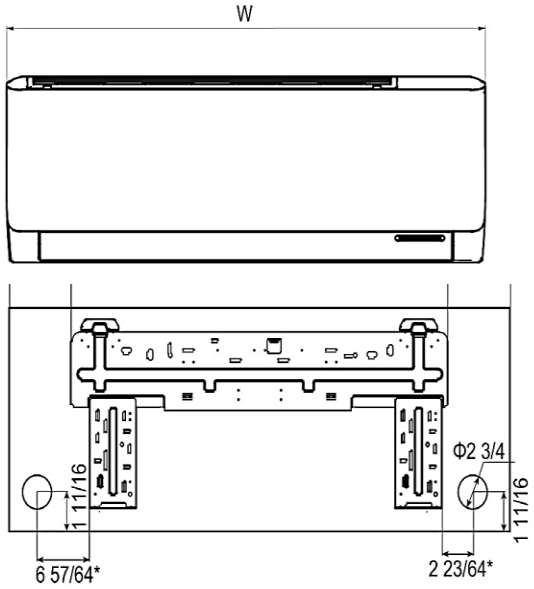


R410A INVERTER Intertek AHRI CERTIFIED COLD CLIMATE

DIMENSIONAL SPECIFICATIONS: TW09HXP2A1D

INDOOR UNIT DIMENSIONS

Model No: TW09HXP2A1DI



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

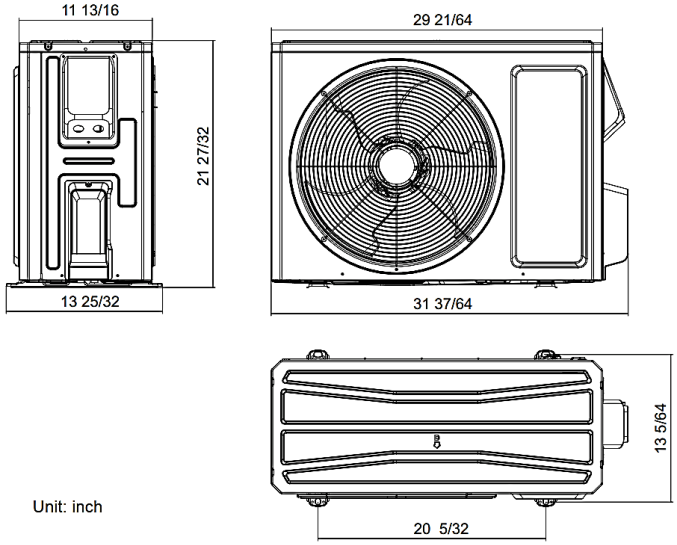
Weight (Net/Shipping) 21 / 26 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

OUTDOOR UNIT DIMENSIONS

Model No: TW09HXP2A1DO

Unit: inch



Unit: inch

Weight (Net/Shipping) 71 /76 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	3/8-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.