TOSOT

SUPER HEAT / SUPER COOL

SMART TECH BUILT FOR BEST HOUSES ECOLOGY

18,000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

SUBMITTAL DATA: TW18HXP2A1D

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

AHRI CERTIFIED REF	211177522
ENERGY STAR NUMBER	2409850





YAA1FB8
(Standard)



SQZ003
(Optional)



XE72-44/E
(Optional)



XE71-00/E
(Optional)



SYSTEM RATINGS			INDOOR UNIT DATA	
Cooling			**Fan Motor**	
Rated Capacity @ 95° F		18,000 BTU/H	Type	Cross-flow
Capacity Range		5,118-21,154 BTU/H	Output Power	45W
Power Input		1,384 W	FLA	0.35A
Power Input (Min/Max)		130/2,300 W	Fan Speeds	7
SEER2 / EER2		23.0 / 13.0	Air flow (Min/Max)	324/589 CFM
Heating			**Sound Pressure Level**	
Rated Capacity @ 47° F		18,000 BTU/H	Cooling (Low/High)	29/49 dB(A)
Capacity Range		5,118-21,154 BTU/H	Heating (Low/High)	29/49 dB(A)
Power Input		1,384 W	Dehumidification	3.80 pt/hr
Rated Capacity @ 17° F		14,600 BTU/H	**OUTDOOR UNIT DATA**	
Rated Capacity @ 5° F		13,500 BTU/H	**Compressor**	
Power Input (Min/Max)		220 / 1,500 W	Type	DC Inverter Rotary
HSPF2 (Region IV / V)		9.0 / 7.6	RLA	9.25 A
COP @47°F / @5°F		3.80 / 1.90	**Fan Motor**	
			Output Power	60 W
Operating Range			RLA	0.9 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/54.7 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		14 A	MIN Refrigerant Pipe Length	10-ft
MOCP / Max Breaker Size		20 A	MAX Refrigerant Pipe Height Difference	82-ft

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FEATURES & FUNCTION SUMMARY: TW18HXP2A1D

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: TW18HXP2A1D

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	9,916	1.68	1,877	9,618	1.61	1,906	9,137	1.49	1,953	9,009	1.45	1,975
	-13°F	10,896	1.81	1,916	10,570	1.73	1,945	10,041	1.60	1,993	9,901	1.56	2,015
	-4°F	12,107	1.97	1,955	11,744	1.88	1,984	11,157	1.75	2,034	11,001	1.70	2,056
	0 °F	13,160	2.13	1,965	12,765	2.04	1,994	12,127	1.89	2,044	11,957	1.84	2,066
	6 °F	14,000	2.25	1,985	13,580	2.15	2,014	12,901	1.99	2,065	12,720	1.94	2,087
	10 °F	14,527	2.32	1,995	14,091	2.22	2,024	13,386	2.05	2,075	13,199	2.00	2,098
	16 °F	14,976	2.37	2,015	14,527	2.26	2,045	13,800	2.10	2,096	13,607	2.05	2,119
	19°F	15,600	2.44	2,035	15,132	2.33	2,066	14,375	2.16	2,117	14,174	2.11	2,140
	24 °F	17,424	2.72	2,040	16,901	2.60	2,071	16,056	2.41	2,122	15,831	2.35	2,146
	32°F	18,100	2.78	2,070	17,557	2.66	2,101	16,679	2.47	2,154	16,446	2.41	2,177
	41°F	20,731	3.39	1,948	20,109	3.24	1,978	19,104	3.00	2,027	18,836	2.93	2,049
	43°F	21,154	3.42	1,968	20,519	3.27	1,998	19,493	3.03	2,047	19,221	2.96	2,070
	47 °F	18,000	4.14	1,384	17,460	3.96	1,405	16,587	3.67	1,440	16,355	3.58	1,456
	53°F	18,900	3.91	1,540	18,333	3.74	1,563	17,416	3.46	1,602	17,173	3.38	1,620
	59°F	17,010	4.04	1,340	16,500	3.86	1,360	15,675	3.58	1,394	15,455	3.49	1,409
	64°F	16,330	4.22	1,233	15,840	4.03	1,251	15,048	3.74	1,282	14,837	3.64	1,296
	70°F	11,757	4.40	851	11,405	4.21	863	10,834	3.90	885	10,683	3.80	895
	75 °F	11,405	4.74	765	11,062	4.53	777	10,509	4.20	796	10,362	4.10	805
	78 °F	10,492	4.60	727	10,177	4.39	738	9,669	4.07	757	9,533	3.97	765

*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

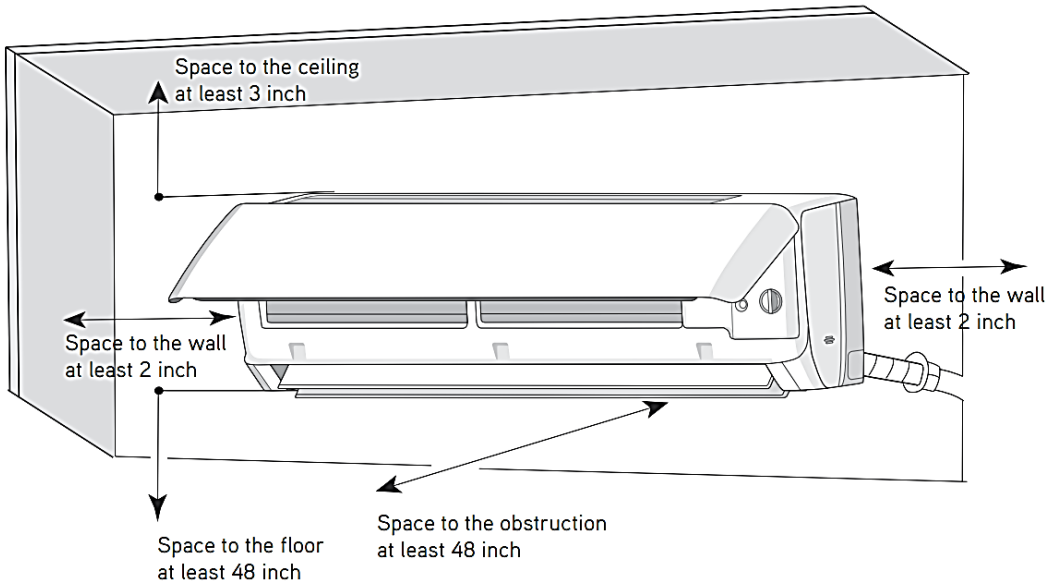
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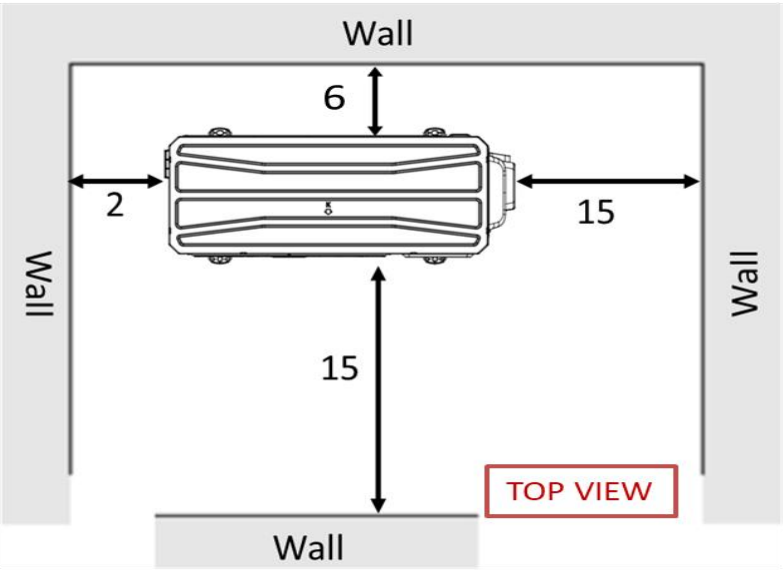
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DIMENSIONAL SPECIFICATIONS: TW18HXP2A1D

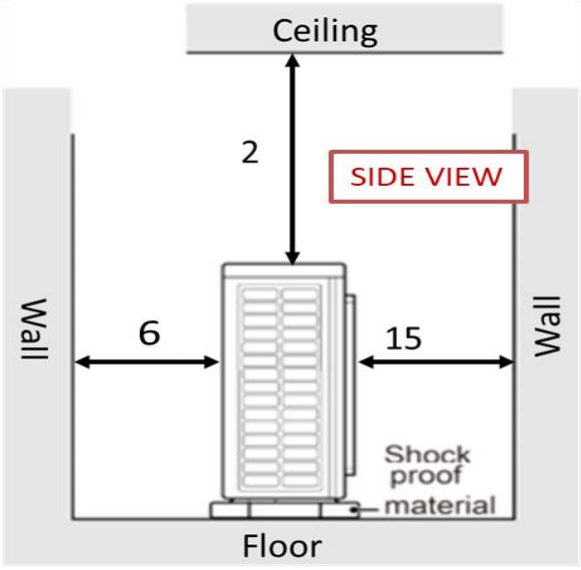
MINIMUM SPACING REQUIREMENTS

Unit: inch





The ceiling should be open



Either left or right side should be open

Note:

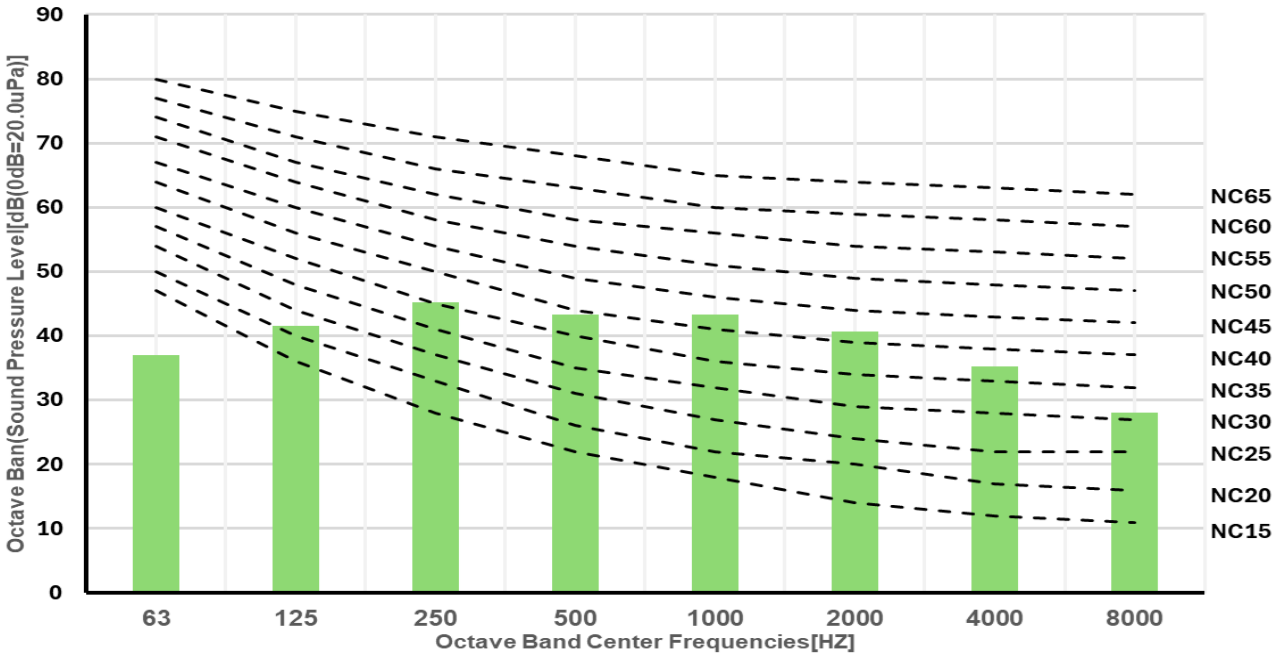
1. Apply the value in the brackets to achieve best performance
2. Wall height on air outlet side ≤ 50inch

R410A INVERTER Intertek AHRI CERTIFIED COLD CLIMATE

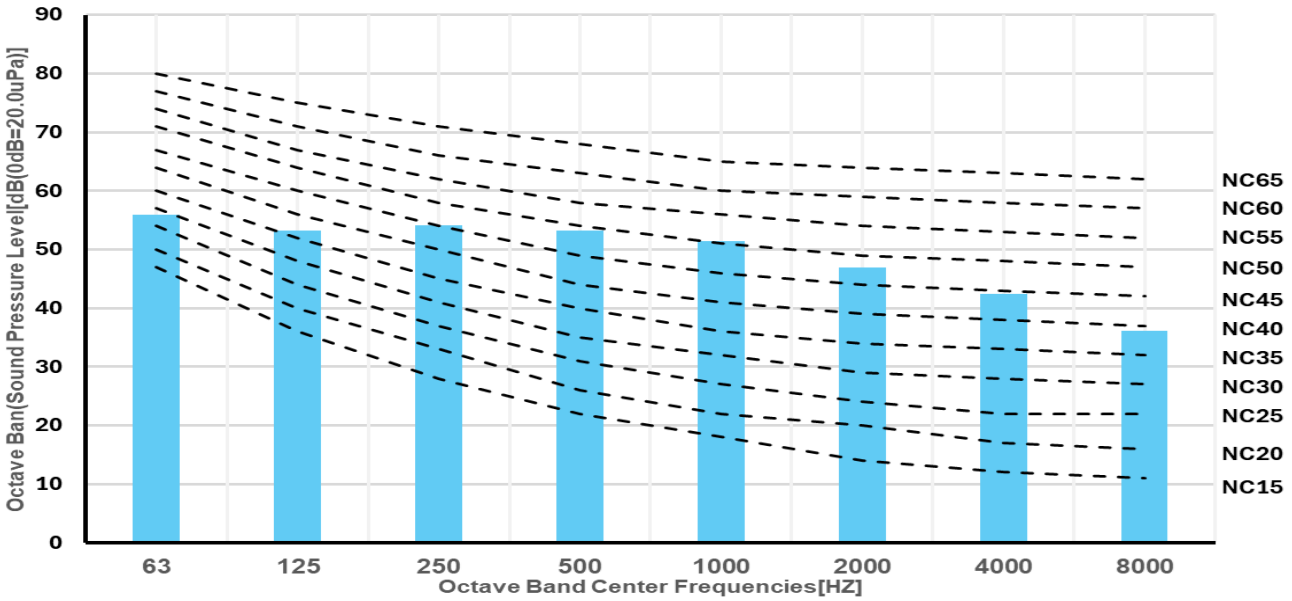
SOUND POWER DATA: TW18HXP2A1D

ACOUSTIC OCTAVE-BAND SOUND POWER DATA

INDOOR UNIT



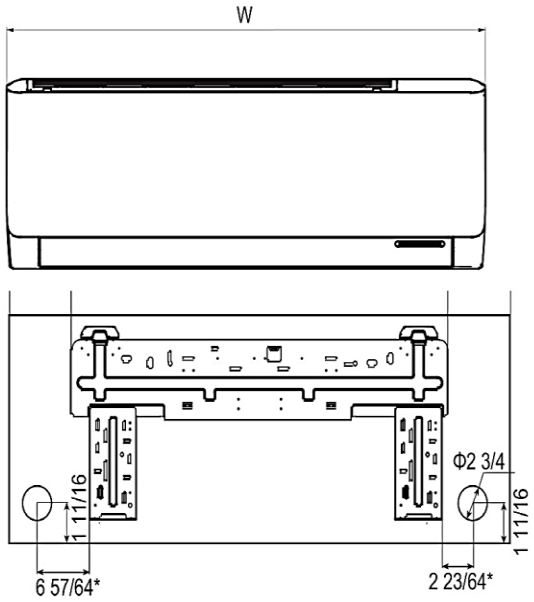
OUTDOOR UNIT



DIMENSIONAL SPECIFICATIONS: TW18HXP2A1D

INDOOR UNIT DIMENSIONS

Model No: TW18HXP2A1DI



Units: inch

Dimensions	
D	8 45/64
H	12 1/4
W	38 21/32
W1	4 53/64
W2	27 55/64
W3	5 63/64

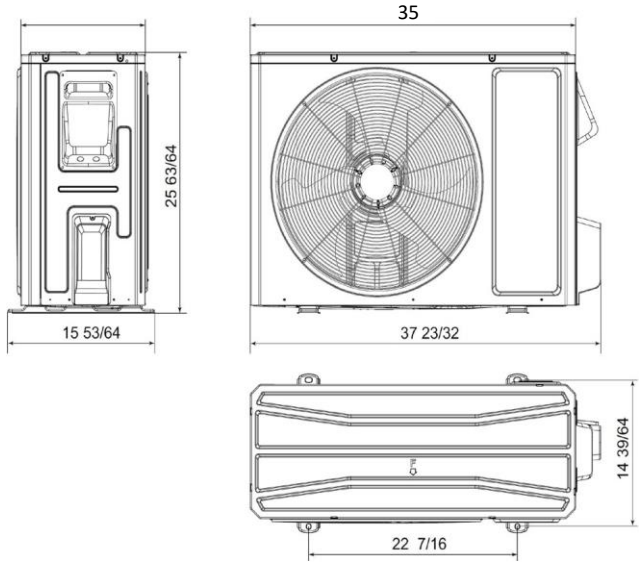
Weight (Net/Shipping) 29 / 36 LBS

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: TW18HXP2A1DO

Unit: inch



Weight (Net/Shipping) 98 /107 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.

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