

TOSOT

SUPER HEAT / SUPER COOL

SMART TECH BUILT FOR BEST HOUSES ECOLOGY

9000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

SUBMITTAL DATA: TW09HXP2A1D

Job Name	Location	Date
Purchaser	Engineer	
Submitted To	For	<input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction
Unit Designation	Schedule No.	

**AHRI CERTIFIED REF
NO: 211177520**



SYSTEM RATINGS		INDOOR UNIT DATA		
Cooling		Fan Motor		
Rated Capacity	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	
SEER / SEER2	25.5 / 25.5	Air flow (Min/Max)	159/353 CFM	
EER / EER2	14.7 / 14.7	Sound Pressure Level		
Heating		Cooling (Low/High)	25/40 dB(A)	
Rated Capacity at 47° F	10,500 BTU/H	Heating (Low/High)	25/40 dB(A)	
Capacity Range	3,412-14,671 BTU/H	Dehumidification	1.69 pt/hr	
Power Input	788 W	OUTDOOR UNIT DATA		
Power Input (Min/Max)	228 / 1,343 W	Compressor		
HSPF/HSPF2	12.0 / 10.2	Type	DC Inverter Driven, Rotary	
COP	3.90	RLA	6.5 A	
Heating at 5° F		Fan Motor		
Rated Capacity	9,100 BTU/H	Output Power	30 W	
Operating Range		RLA	0.4 A	
Cooling	(Max)	122°F (50°C)	Sound Pressure Level	
	(Min)	-20°F (-29°C)	52 dB(A)	
Heating	(Max)	86°F (30°C)	Refrigerant Piping Data	
	(Min)	-22°F (-30°C)	Liquid Pipe Size (OD)	1/4-in
Power Supply		Gas Pipe Size (OD)	3/8-in	
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz	Connection Method	Flared	
Voltage Range	187 - 253 V	Factory Charge	R410A/35.28 oz	
Main Power Wire Size	14-2 AWG	Additional Charge	0.215 oz/ft	
Interconnecting Cable Wire Size	14-4 AWG	Pre-Charge Length	24.6-ft	
MCA	10 A	MAX Refrigerant Pipe Length	49.2-ft	
MOCB/Breaker Size	15 A	MIN Refrigerant Pipe Length	10-ft	
		MAX Refrigerant Pipe Height Difference	32.8-ft	

GENERAL FEATURES

- Easy Installation and cleaning
- Low Ambient Heating (down to -22° F)
- High Ambient Cooling (up to - 122° F)
- WiFi Included
- 3D Airoutlet
- Wired Controller (Sold Separately) XK19
- 7 Indoor Fan Speeds
- Copper Tube/Aluminum Fins w/Acrylic Resin Anti-Corrosion both inside and out
- 5 Steps for air purification
- I-FEEL Function

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FEATURES & FUNCTION SUMMARY: TW09HXP2A1D

SYSTEM FEATURES	
Ultra Low Frequency Torque Control	Yes
Power Factor Correction	Yes
Compressor Type	High Eff. Rotary
Refrigerant Type	R410A
Basepan With Electric Heater	YES
Compressor With Electric Heater	YES
Indoor & Outdoor Fin Coating (Blue)	Acrylic Resin/Anti-Corrosion
Intelligent Defrosting	YES
Intelligent Preheating	YES
Low Voltage Startup	YES
Memory/Power Failure Recovery	YES
Self Diagnosis	YES
Wired Controller Interface	YES
WIFI Included	YES
Indoor Fan Type	Crossflow
Multi Fan Speeds	7 Speeds
Indoor Unit Display	YES
Auxiliary Electrical Heater	NO
Ventilation (Outdoor Air)	NO
REMOTE CONTROLLER FUNCTIONS	
Auto Mode	YES
Auto Fan	YES
Auto Swing (Horizontal Auto Swing)	NO
Auto Swing - 180°(Vertical Auto Swing)	YES
Clock on Remote Controller	YES
Dry Mode	YES
Dry Anti-Mildew (X-Fan) Mode	YES
Energy Saving Mode	NO
Dirty Filter Alert	NO
Fan Speed Control (7 speeds)	YES
I Feel Function	YES
Privacy Lock on Remote Controller	YES
Quiet Mode	YES
Room Temperature Display	YES
Sleep Mode	YES
3 Sleep Modes Options	YES
Timer Mode	YES
Turbo Mode	YES
Display On/Off Control	YES
Freeze Guard Mode	YES
Power Failure Mode	YES



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)	SHR Power Input (W)	TC (Btu/h)	COP (W/W)	Power Input (W)	TC (Btu/h)	COP (W/W)	SHR Power Input (W)	
MAX OUTPUT*	-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 - Coefficient of Performance

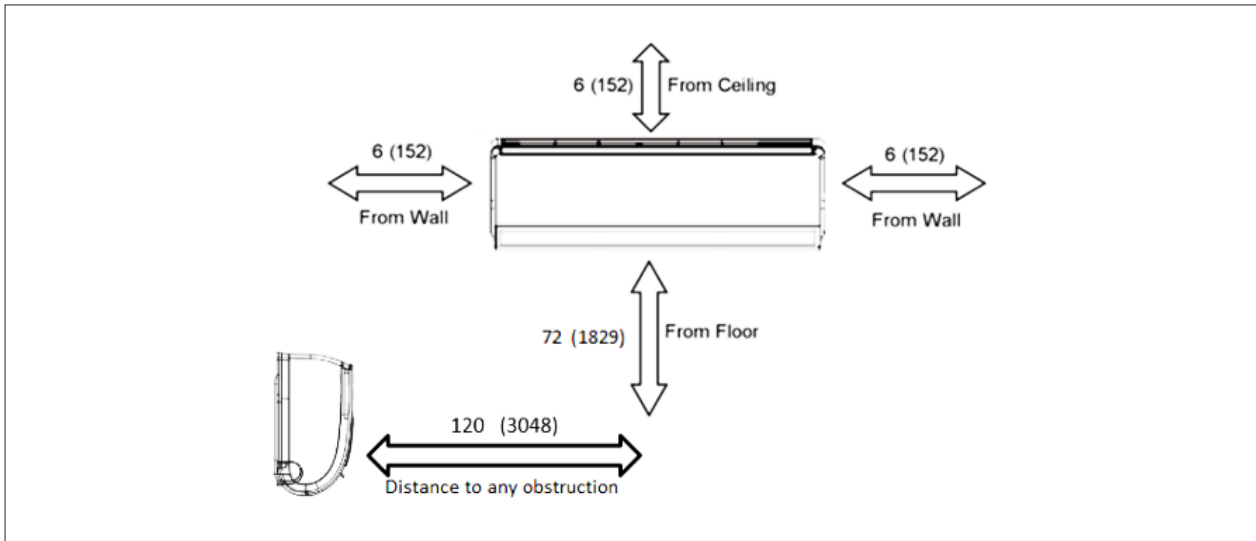


DIMENSIONAL SPECIFICATIONS: TW09HXP2A1D

MINIMUM SPACING REQUIREMENTS

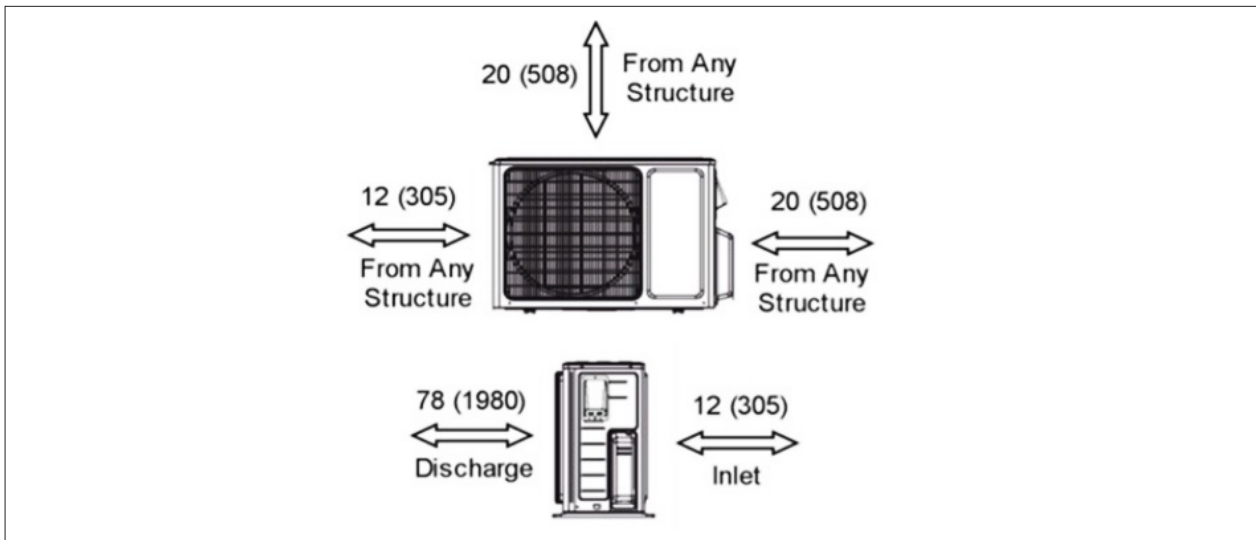
INDOOR

Units: inch (mm)



MINIMUM OUTDOOR CLEARANCES

Units: inch (mm)



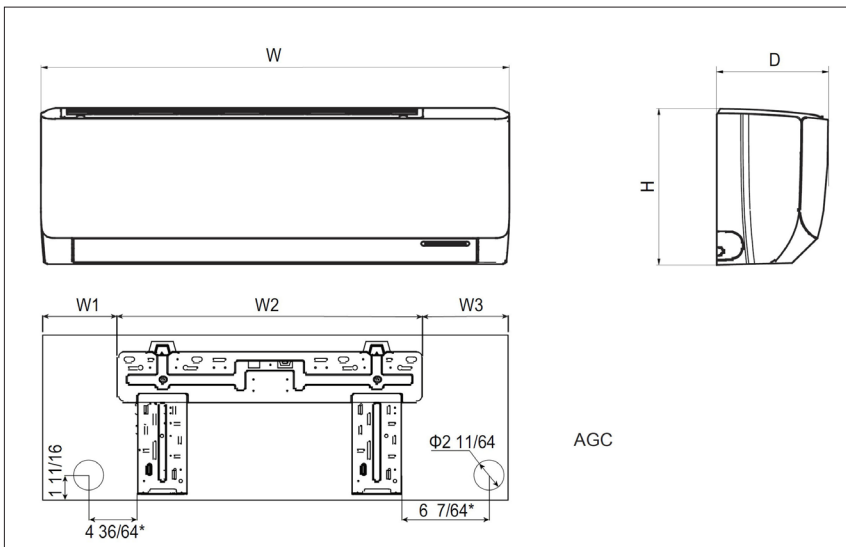
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DIMENSIONAL SPECIFICATIONS: TW09HXP2A1D

INDOOR UNIT DIMENSIONS

Model No: TW09HXP2A1DI

Units: inch



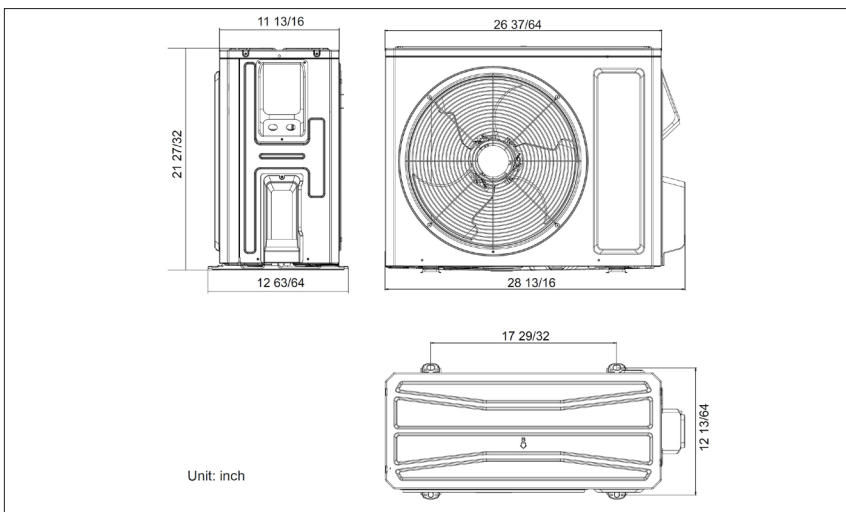
Dimensions	
D	7 23/32
H	11 17/32
W	32 31/64
W1	4 29/64
W2	21 11/32
W3	6 11/16

Weight (Net/Shipping) 21 / 25.4 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



Weight (Net/Shipping) 70.5 /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.