TOSOT

115V

HEAT / COOL

DAILY CHARMING, COOLING CHARMO

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

SUBMITTAL DATA: TW09HXCA5A

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

AHRI CERTIFIED REF NO: 211177536







SYSTEM RATINGS			INDOOR UNIT DATA	
Cooling			**Fan Motor**	
Rated Capacity at 95° F		9,100 BTU/H	Type	Cross-flow
Capacity Range		879-11,000BTU/H	Output Power	20W
Power Input		805 W	FLA	0.40A
Power Input (Min/Max)		180/1,350 W	Fan Speeds	7
SEER / SEER2		19.5 / 19.5	Air flow (Min/Max)	159/353 CFM
EER / EER2		11.3 / 11.3	**Sound Pressure Level**	
Heating			Cooling (Low/High)	26/41 dB(A)
Rated Capacity at 47° F		10,000 BTU/H	Heating (Low/High)	26/41 dB(A)
Capacity Range		2,200-13,000 BTU/H	**Dehumidification**	2.96 pt/hr
Power Input		814 W	**OUTDOOR UNIT DATA**	
Power Input (Min/Max)		180 / 1,450 W	**Compressor**	
HSPF/HSPF2		9.8 / 8.6	Type	DC Inverter Driven, Rotary
COP		3.6	RLA	10.5 A
			Fan Motor	
			Output Power	30 W
Operating Range			RLA	0.63 A
Cooling	(Max)	115°F (46°C)	**Sound Pressure Level**	51 dB(A)
	(Min)	0°F (-18°C)	**Refrigerant Piping Data**	
Heating	(Max)	75°F (24°C)	Liquid Pipe Size (OD)	1/4-in
	(Min)	-4°F (-20°C)	Gas Pipe Size (OD)	3/8-in
Power Supply			Connection Method	Flared
Normal Operational Voltage		115 V, 1 Phase, 60 Hz	Factory Charge	R410A/24.34 oz
Voltage Range		v103 - 127 V	Additional Charge	0.215 oz/ft
Main Power Wire Size		14-2 AWG	Pre-Charge Length	24.6-ft
Interconnecting Cable Wire Size		14-4 AWG	MAX Refrigerant Pipe Length	65.6-ft
MCA/Min Breaker Size		15 A	MIN Refrigerant Pipe Length	10-ft
MOCPMax Breaker Size		20 A	MAX Refrigerant Pipe Height Difference	39.37-ft

GENERAL FEATURES

- Easy Installation and cleaning
- Self Cleaning function
- Fast Cooling With Meticulous Care
- 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
- Outdoor Temperature Display
- I-FEEL Function

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FEATURES & FUNCTION SUMMARY: TW09HXCA5A

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	Cross-flow
Multi Fan Speeds	7 Speeds
Indoor Unit Display	YES
Auxiliary Electrical Heater	NO
Outdoor Temperature Display	YES
Auxiliary Electrical Heater	NO
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	NO
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
Sleep Modes Options	YES
Timer Mode	YES
Turbo Mode	YES
Display On/Off Control	YES
Freeze Guard Mode	NO
Power Failure Mode	YES

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EXTENDED RATINGS: TW09HXCA5A

COOLING PERFORMANCE

Outdoor Ambient Temperature (DB)		Return Air Temperature																			
		68°F (DB) / 57°F (WB)					73°F (DB) / 61°F (WB)					80°F (DB) / 67°F (WB)					90°F (DB) / 73°F (WB)				
		TC (Btu/h)	SC (Btu/h	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h	SHR	EER (Btu/ (h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h	SHR	EER (Btu/ (h·W))	Power Input (W)	TC (Btu/h)	SC (Btu/h	SHR	EER (Btu/ (h·W))	Power Input (W)
MAX OUTPUT*	0	4510	3270	73%	7.8	578	5060	3669	73%	8.1	628	5500	3988	73%	8.3	662	5940	4307	73%	8.6	695
	5	4730	3453	73%	8.0	590	5280	3854	73%	8.2	641	5720	4176	73%	8.5	675	6160	4497	73%	8.7	709
	14	5060	3719	74%	8.1	625	5610	4123	74%	8.3	680	6050	4447	74%	8.5	716	6490	4770	74%	8.6	751
	23	5610	4151	74%	8.3	673	6160	4558	74%	8.4	731	6600	4884	74%	8.6	770	7040	5210	74%	8.7	808
	32	6050	4507	75%	8.5	708	6600	4917	75%	8.6	770	7040	5245	75%	8.7	810	7480	5573	75%	8.8	851
	41	6710	5033	75%	8.7	767	7260	5445	75%	8.7	834	7700	5775	75%	8.8	878	8140	6105	75%	8.8	921
	50	7370	5564	76%	8.2	897	7920	5980	76%	8.1	975	8360	6312	76%	8.1	1026	8800	6644	76%	8.2	1077
	59	7920	6019	76%	8.4	944	8470	6437	76%	8.3	1026	8910	6772	76%	8.3	1080	9350	7106	76%	8.2	1134
	68	9130	6984	77%	8.6	1062	9680	7405	77%	8.4	1154	10120	7742	77%	8.3	1215	10560	8078	77%	8.3	1276
	77	10120	7792	77%	9.0	1121	10670	8216	77%	8.8	1218	11110	8555	77%	8.7	1283	11550	8894	77%	8.6	1347
	86	11000	8525	78%	9.5	1156	11550	8951	78%	9.2	1257	11990	9292	78%	9.1	1323	12430	9633	78%	8.9	1389
	95	10010	7808	78%	8.5	1180	10560	8237	78%	8.2	1283	11000	8580	78%	8.1	1350	11440	8923	78%	8.1	1418
	104	8910	6994	79%	7.0	1274	9460	7426	79%	6.8	1385	9900	7772	79%	6.8	1458	10340	8117	79%	6.8	1531
	113	8250	6518	79%	6.1	1357	8800	6952	79%	6.0	1475	9240	7300	79%	6.0	1553	9680	7647	79%	5.9	1630

*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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EXTENDED RATINGS: TW09HXCA5A

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)	Power Input (W)	TC (Btu/h)	COP (W/W)	Power Input (W)	TC (Btu/h)	COP (W/W)	Power Input (W)
MAX OUTPUT*	-4°F	6240	1.14	1610	6500	1.16	1642	6760	1.18	1675	6890	1.18	1708
	0°F	8450	1.51	1639	8710	1.53	1671	8970	1.54	1705	9100	1.53	1739
	6°F	9750	1.71	1668	10010	1.72	1701	10270	1.73	1735	10400	1.72	1770
	10°F	10400	1.89	1610	10660	1.90	1642	10920	1.91	1675	11050	1.89	1708
	16°F	11570	2.12	1595	11830	2.13	1627	12090	2.13	1659	12220	2.11	1693
	19°F	11700	2.25	1523	11960	2.26	1553	12220	2.26	1584	12350	2.24	1616
	24°F	11830	2.34	1479	12090	2.35	1509	12350	2.35	1539	12480	2.33	1570
	32°F	12090	2.42	1465	12350	2.42	1494	12610	2.42	1524	12740	2.40	1554
	41°F	12350	2.60	1392	12610	2.60	1420	12870	2.60	1448	13000	2.58	1477
	43°F	12740	2.63	1421	13000	2.63	1449	13260	2.63	1478	13390	2.60	1508
	47°F	13000	2.63	1450	13260	2.63	1479	13520	2.63	1509	13650	2.60	1539
	53°F	14040	2.75	1494	14300	2.75	1523	14560	2.74	1554	14690	2.71	1585
	59°F	14950	2.85	1537	15210	2.84	1568	15470	2.83	1599	15600	2.80	1631
	64°F	14300	2.65	1581	14560	2.65	1612	14820	2.64	1644	14950	2.61	1677
	70°F	13780	2.53	1595	14040	2.53	1627	14300	2.52	1659	14430	2.50	1693
	75°F	12870	2.34	1610	13130	2.34	1642	13390	2.34	1675	13520	2.32	1708

*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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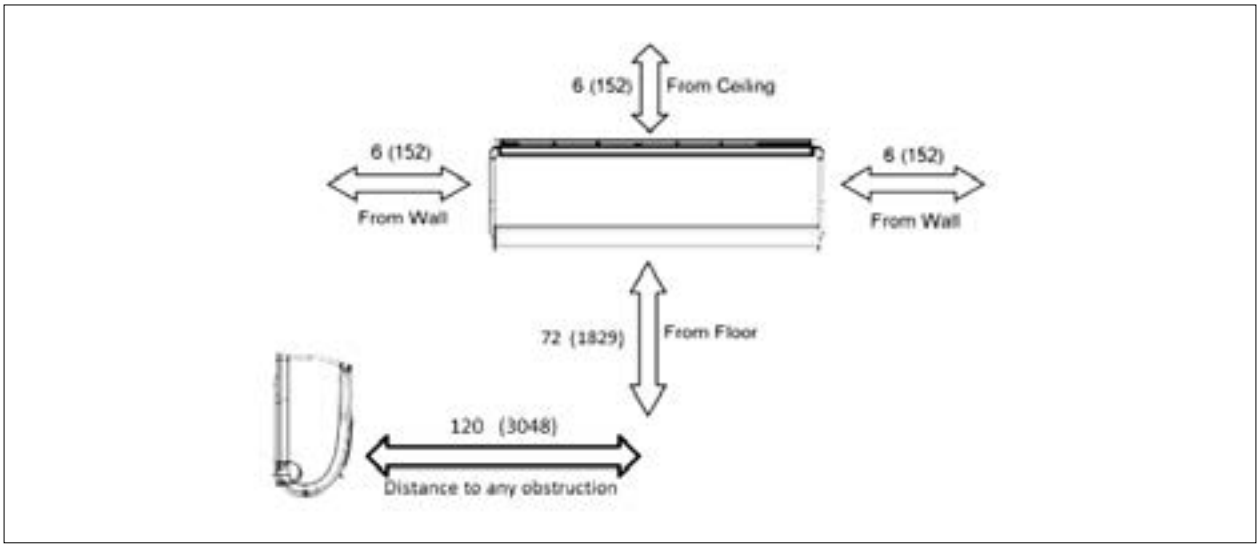
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DIMENSIONAL SPECIFICATIONS: TW09HXCA5A

MINIMUM SPACING REQUIREMENTS

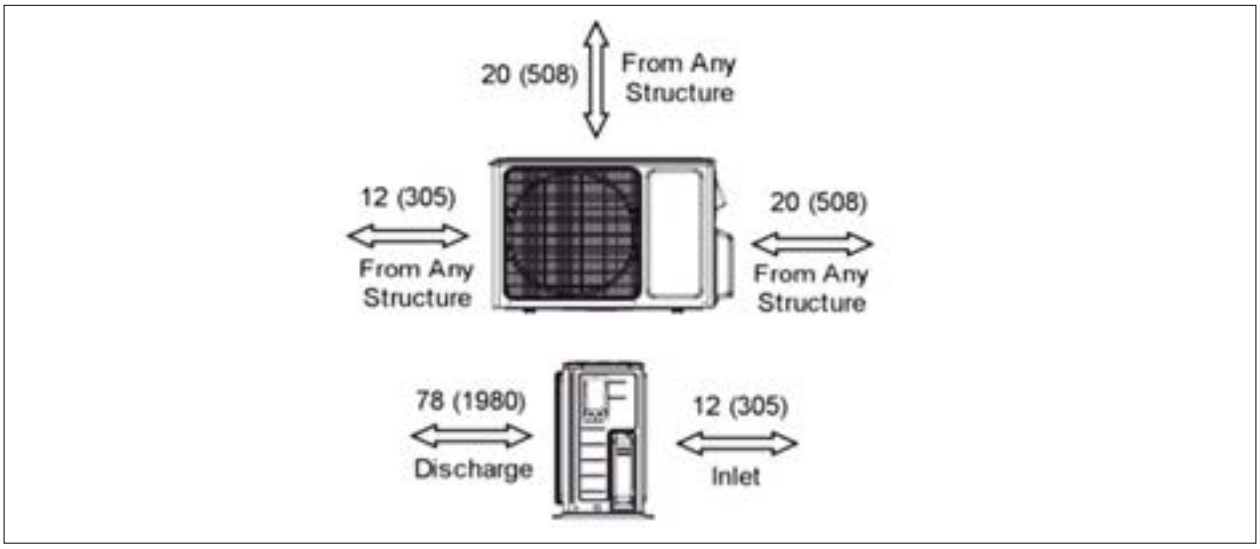
INDOOR

Units: inch (mm)



MINIMUM OUTDOOR CLEARANCES

Units: inch (mm)



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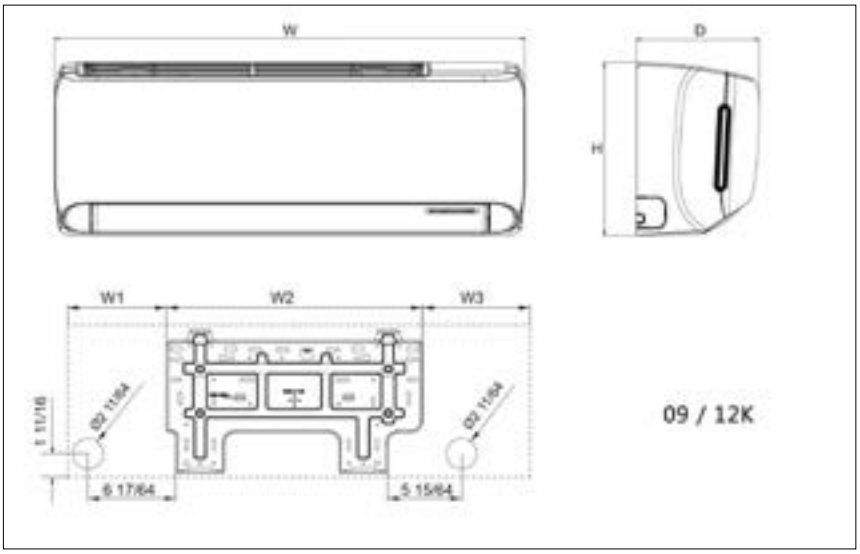
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DIMENSIONAL SPECIFICATIONS: TW09HXCA5A

INDOOR UNIT DIMENSIONS

Model No: TW09HXCA5AI

Units: inch



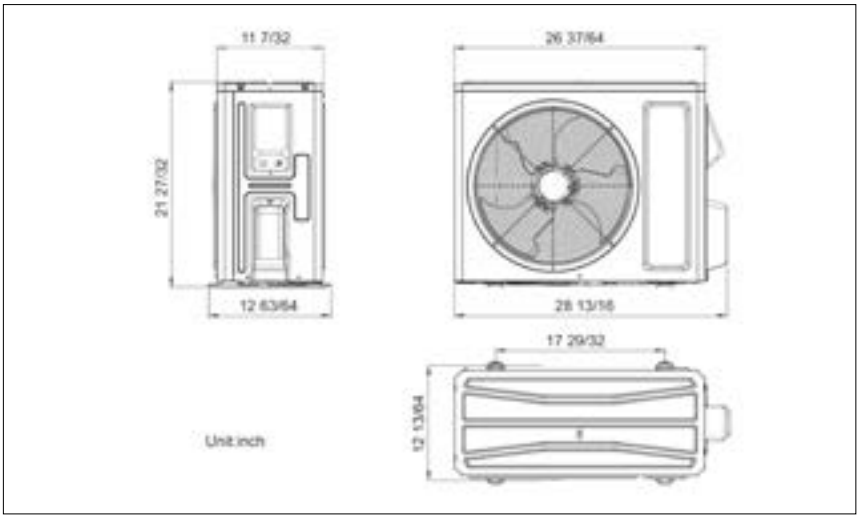
Dimensions	
D	7 7/8
H	10 53/64
W	32 7/8
W1	7 3/64
W2	18 5/32
W3	7 11/16

Weight (Net/Shipping) 19.8 / 24.3 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: TW09HXCA5AO



Weight (Net/Shipping) 56.2 /61.7 LBS

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