TOSOT

115V

HEAT / COOL

DAILY CHARMING, COOLING CHARMO

12,000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

SUBMITTAL DATA: TW12HXCA5A

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

AHRI CERTIFIED REF NO: 211177537







SYSTEM RATINGS			INDOOR UNIT DATA	
Cooling			**Fan Motor**	
Rated Capacity at 95° F		12,000 BTU/H	Type	Cross-flow
Capacity Range		2,388-13,307BTU/H	Output Power	20W
Power Input		1,380 W	FLA	0.40A
Power Input (Min/Max)		180/1,500 W	Fan Speeds	7
SEER / SEER2		17.5 / 17.5	Air flow (Min/Max)	182/424 CFM
EER / EER2		8.7 / 8.7	**Sound Pressure Level**	
Heating			Cooling (Low/High)	27/47 dB(A)
Rated Capacity at 47° F		12,000 BTU/H	Heating (Low/High)	27/47 dB(A)
Capacity Range		2,388-15,013 BTU/H	**Dehumidification**	2.96 pt/hr
Power Input		1,004 W	**OUTDOOR UNIT DATA**	
Power Input (Min/Max)		260 / 1,650W	**Compressor**	
HSPF/HSPF2		10.0 / 8.5	Type	DC Inverter Driven, Rotary
COP		3.50	RLA	15.1 A
			Fan Motor	
			Output Power	30 W
Operating Range			RLA	0.7 A
Cooling	(Max)	115°F (46°C)	**Sound Pressure Level**	52 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/24.7oz
Voltage Range		103 - 127 V	Additional Charge	0.215 oz/ft
Main Power Wire Size		12-2 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		20A	MIN Refrigerant Pipe Length	10-ft
MOCP/Max Breaker Size		30 A	MAX Refrigerant Pipe Height Difference	40.0-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: TW12HXCA5A

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	YES
Energy Saving Mode	YES
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: TW12HXCA5A

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°F	4288.4	3109.1	73%	5.0	862.8	5297.5	3840.7	73%	5.8	908.2	6306.5	4540.7	72%	6.6	956.0	6550.5	4749.1	72%	6.7	984.5
	5°F	4919.1	3590.9	73%	5.5	901.4	5928.1	4327.5	73%	6.2	948.8	6937.2	5064.2	73%	6.9	998.8	7205.6	5260.1	73%	7.0	1027.3
	14°F	5549.7	4079.0	73%	6.1	914.3	6558.8	4820.7	73%	6.8	962.4	7567.8	5524.5	73%	7.5	1013.0	7860.6	5777.5	73%	7.3	1070.1
	23°F	5802.0	4293.5	74%	6.0	965.8	6811.0	5040.1	74%	6.7	1016.6	7820.1	5786.9	74%	7.3	1070.1	8122.6	6010.7	74%	7.5	1084.4
	32°F	6054.2	4510.4	75%	6.0	1004.4	7063.3	5262.2	75%	6.7	1057.3	8072.3	5973.5	74%	7.3	1112.9	8384.6	6246.5	74%	7.3	1155.7
	41°F	6811.0	5108.3	75%	6.6	1030.1	7820.1	5865.1	75%	7.2	1084.4	8829.1	6621.8	75%	7.7	1141.4	9170.7	6878.0	75%	7.7	1198.5
	50°F	7567.8	5713.7	76%	6.9	1094.5	8576.8	6475.5	76%	7.4	1152.1	9585.9	7285.3	76%	7.9	1212.8	9956.8	7517.4	76%	8.0	1241.3
	59°F	8072.3	6134.9	76%	7.1	1133.2	9081.4	6901.9	76%	7.6	1192.8	10090.4	7668.7	76%	8.0	1255.6	10480.8	7965.4	76%	8.2	1284.1
	68°F	8450.7	6464.8	77%	7.2	1171.8	9459.8	7236.7	76%	7.7	1233.5	10468.8	8061.0	77%	8.1	1298.4	10873.8	8318.5	77%	8.2	1326.9
	77°F	10594.9	8158.1	77%	8.4	1261.9	11604.0	8935.1	77%	8.7	1328.4	12613.0	9712.0	77%	9.0	1398.3	13101.0	10087.8	77%	9.7	1355.5
	86°F	11730.1	9090.8	77%	8.8	1326.3	12739.1	9872.8	77%	9.1	1396.1	13748.2	10723.6	78%	9.4	1469.6	14280.1	11067.1	78%	10.3	1384.0
	95°F	10594.9	8264.0	78%	8.2	1287.7	11604.0	9051.1	78%	8.6	1355.5	12613.0	9838.1	78%	8.8	1426.8	13101.0	10218.8	78%	8.9	1469.6
	104°F	9333.6	7326.9	79%	8.2	1133.2	10342.7	8119.0	78%	8.7	1192.8	11351.7	8967.8	79%	7.7	1481.3	11790.9	9255.9	79%	7.9	1498.0
	113°F	8576.8	6775.7	79%	8.2	1043.0	9585.9	7572.9	79%	8.7	1097.9	10594.9	8370.0	79%	7.3	1446.7	11004.8	8693.8	79%	7.3	1512.2

*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: TW12HXCA5A

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	7206	1.91	1106	7507	1.95	1128	7807	1.99	1151	8107	2.02	1174
	0°F	8257	2.15	1128	8557	2.18	1151	8858	2.21	1174	9158	2.24	1198
	6°F	8708	2.22	1152	9008	2.25	1175	9308	2.28	1198	9608	2.30	1222
	10°F	9008	2.25	1175	9308	2.28	1199	9608	2.30	1222	9909	2.33	1247
	16°F	10009	2.45	1199	10309	2.47	1223	10609	2.49	1247	10909	2.51	1272
	19°F	10708	2.57	1223	11008	2.59	1248	11308	2.60	1273	11608	2.62	1298
	24°F	11260	2.64	1248	11560	2.66	1273	11860	2.68	1299	12161	2.69	1325
	32°F	11410	2.62	1274	11710	2.64	1299	12010	2.66	1325	12311	2.67	1352
	41°F	14262	3.22	1300	14563	3.22	1326	14863	3.22	1352	15163	3.22	1379
	43°F	14713	3.25	1326	15013	3.25	1353	15313	3.25	1380	15614	3.25	1408
	47°F	15013	3.25	1354	15313	3.25	1381	15614	3.25	1408	15914	3.25	1436
	53°F	15163	3.19	1394	15463	3.19	1422	15764	3.19	1450	16064	3.18	1479
	59°F	15313	3.13	1436	15614	3.12	1465	15914	3.12	1494	16214	3.12	1524
	64°F	15764	3.12	1479	16064	3.12	1509	16364	3.12	1539	16664	3.11	1570
	70°F	16214	3.12	1523	16514	3.11	1554	16815	3.11	1585	17115	3.10	1617
	75°F	16664	3.11	1569	16965	3.11	1600	17265	3.10	1632	17565	3.09	1665

*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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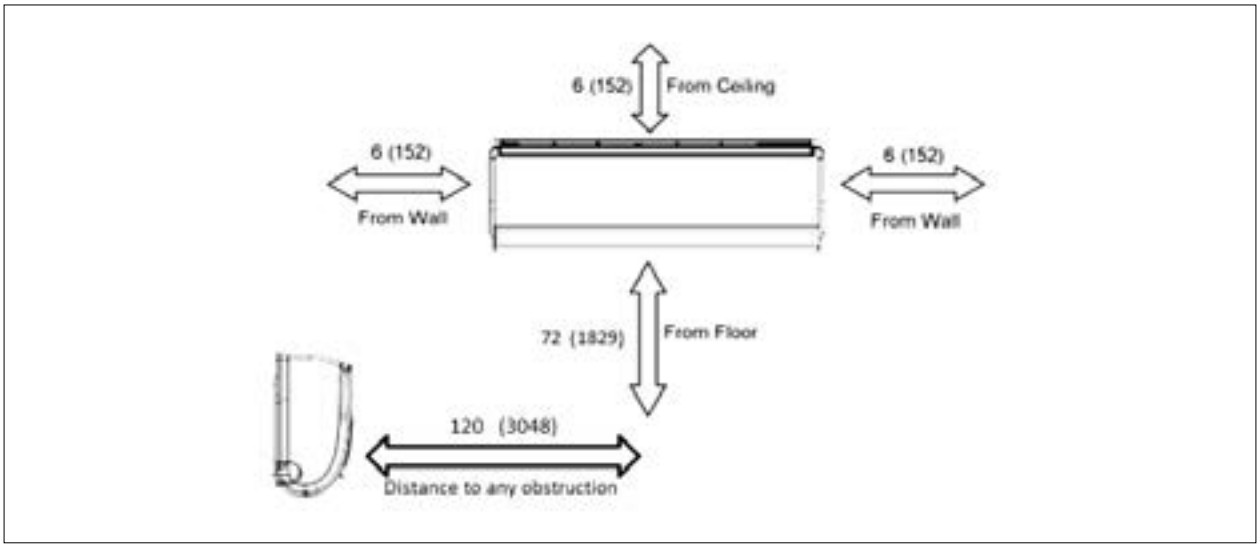
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DIMENSIONAL SPECIFICATIONS: TW12HXCA5A

MINIMUM SPACING REQUIREMENTS

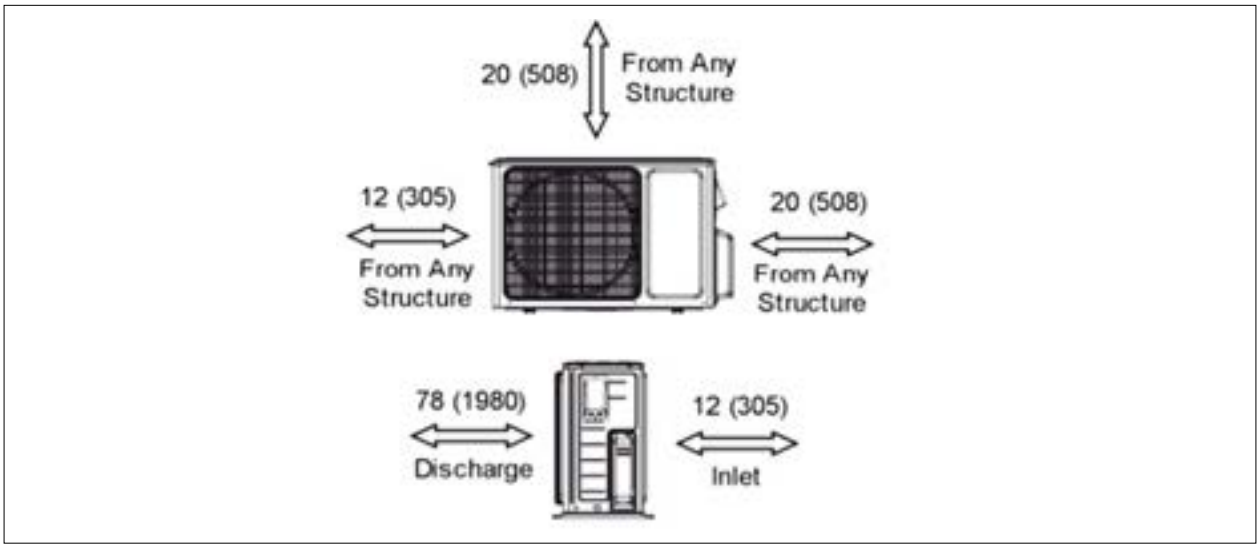
INDOOR

Units: inch (mm)



MINIMUM OUTDOOR CLEARANCES

Units: inch (mm)



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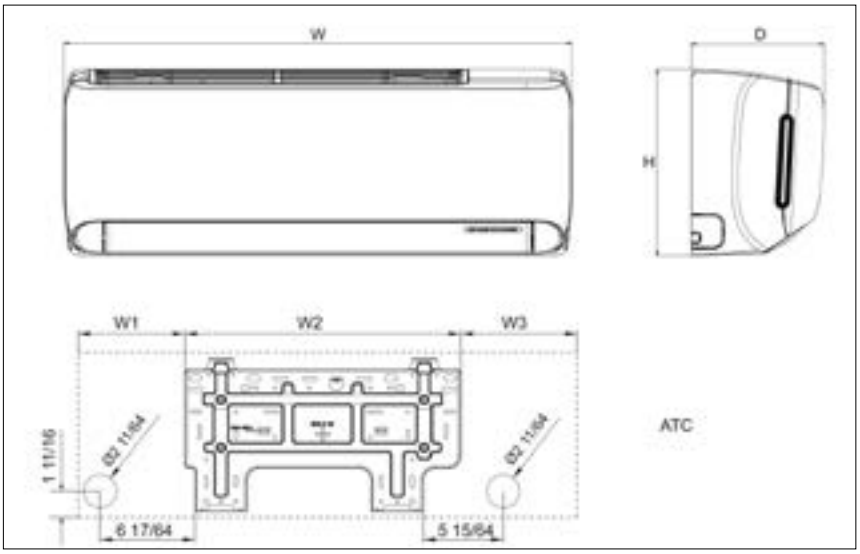
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DIMENSIONAL SPECIFICATIONS: TW12HXCA5A

INDOOR UNIT DIMENSIONS

Model No: TW12HXCA5AI

Units: inch



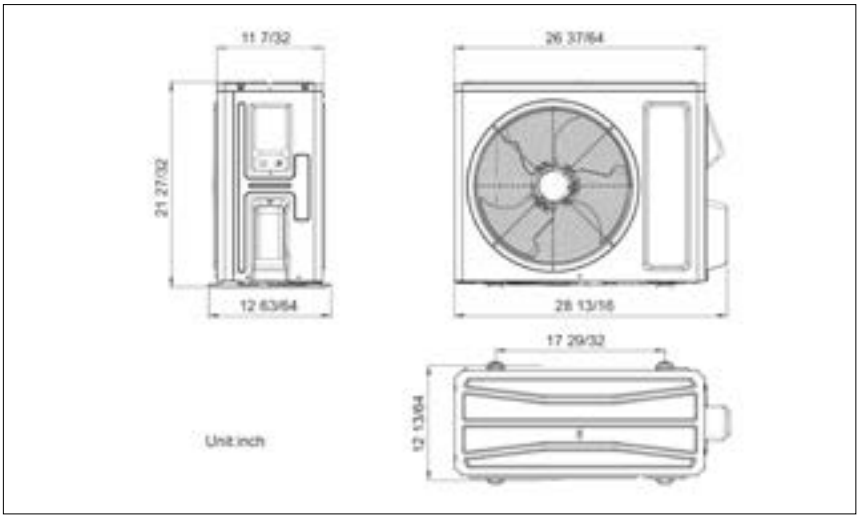
Dimensions	
D	7 7/8
H	10 53/64
W	32 7/8
W1	7 3/64
W2	18 5/32
W3	7 11/16

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: TW12HXCA5AO



Weight (Net/Shipping) 57.3 /62.8 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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