

TOSOT

HEAT / COOL

DAILY CHARMING, COOLING CHARMO

24,000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

SUBMITTAL DATA: TW24HXCA5D

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: 211177517**



SYSTEM RATINGS		INDOOR UNIT DATA		
Cooling		Fan Motor		
Rated Capacity at 95° F	22,000 BTU/H	Type	Cross-flow	
Capacity Range	6,824-25,249BTU/H	Output Power	45W	
Power Input	1,896 W	FLA	0.45A	
Power Input (Min/Max)	340/2,350 W	Fan Speeds	7	
SEER / SEER2	18 / 18	Air flow (Min/Max)	412/677 CFM	
EER / EER2	11.6 / 11.6	Sound Pressure Level		
Heating		Cooling (Low/High)	36/51 dB(A)	
Rated Capacity at 47° F	24,000 BTU/H	Heating (Low/High)	36/51 dB(A)	
Capacity Range	5,971-27,296 BTU/H	Dehumidification	5.28pt/hr	
Power Input	2,051 W	OUTDOOR UNIT DATA		
Power Input (Min/Max)	370 / 2,400 W	Compressor		
HSPF/HSPF2	10 / 8.5	Type	DC Inverter Driven, Rotary	
COP	3.43	RLA	10.39 A	
		Fan Motor		
		Output Power	60 W	
		RLA	0.73 A	
Operating Range		Sound Pressure Level		
Cooling	(Max)	122°F (50°C)	57 dB(A)	
	(Min)	-0.4°F (-18°C)		
		Refrigerant Piping Data		
Heating	(Max)	75.2°F (24°C)	Liquid Pipe Size (OD)	1/4-in
	(Min)	-13°F (-25°C)	Gas Pipe Size (OD)	5/8-in
Power Supply		Connection Method	Flared	
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz	Factory Charge	R410A/52.9 oz	
Voltage Range	187 - 253 V	Additional Charge	0.5 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	82.0-ft	
MCA	15A	MIN Refrigerant Pipe Length	10-ft	
MOCP/Breaker Size	20 A	MAX Refrigerant Pipe Height Difference	32.8-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: TW24HXCA5D

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



EXTENDED RATINGS: TW18HXCA5D

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	7163	5193	73%	5.2	1379	9139	6626	73%	6.3	1451	11115	8058	73%	7.3	1528	12350	8954	73%	7.9	1573
	5	9386	6852	73%	6.5	1440	11362	8294	73%	7.5	1516	13338	9737	73%	8.4	1596	13832	10097	73%	8.4	1642
	14	10621	7806	73%	7.3	1461	12597	9259	74%	8.2	1538	14573	10711	74%	9.0	1619	15067	11074	73%	8.8	1710
	23	11115	8225	74%	7.2	1543	13091	9687	74%	8.1	1625	15067	11150	74%	8.8	1710	15808	11698	74%	9.1	1733
	32	11609	8649	74%	7.2	1605	13585	10121	74%	8.0	1690	15561	11593	74%	8.8	1778	16549	12329	74%	9.0	1847
	41	13091	9818	75%	8.0	1646	15067	11300	75%	8.7	1733	17043	12782	75%	9.3	1824	17784	13338	75%	9.3	1915
	50	14573	11003	75%	8.3	1749	16549	12495	76%	9.0	1841	18525	13986	76%	9.6	1938	19266	14546	75%	9.7	1984
	59	15561	11826	76%	8.6	1811	17537	13328	76%	9.2	1906	19513	14830	76%	9.7	2006	19760	15018	76%	9.6	2052
	68	16302	12471	76%	8.7	1873	18278	13983	77%	9.3	1971	20254	15494	76%	9.8	2075	20501	15683	77%	9.7	2120
	77	20748	15976	77%	11.0	1893	22724	17498	77%	11.4	1993	24700	19019	77%	11.8	2098	24947	19209	77%	11.5	2166
	86	22477	17420	78%	11.5	1955	24453	18951	78%	11.9	2058	26429	20483	78%	12.2	2166	25441	19717	78%	11.5	2212
	95	20748	16183	78%	10.1	2058	22724	17725	78%	10.5	2166	25200	19266	76%	11.1	2280	26182	20422	78%	11.1	2348
	104	18031	14154	78%	8.0	2243	20007	15706	79%	8.5	2361	21983	17257	79%	8.8	2485	24453	19196	78%	9.6	2554
	113	16549	13074	79%	6.9	2387	18525	14635	79%	7.4	2513	20501	16196	79%	7.8	2645	22477	17757	79%	8.2	2736

*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



EXTENDED RATINGS: TW18HXCA5D

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	14236	2.18	1913	13709	2.02	1991	13182	1.90	2031	12127	1.72	2071
	0	16081	2.41	1952	15554	2.24	2031	15027	2.13	2072	13972	1.94	2113
	6	16872	2.48	1991	16345	2.31	2073	15818	2.19	2114	14763	2.01	2157
	10	17400	2.51	2032	16872	2.34	2115	16345	2.22	2157	15291	2.04	2201
	16	19157	2.71	2074	18630	2.53	2158	18103	2.41	2201	17048	2.23	2245
	19	20036	2.78	2116	19509	2.60	2202	18981	2.48	2246	17927	2.29	2291
	24	22672	3.08	2159	22145	2.89	2247	21618	2.76	2292	20563	2.58	2338
	32	24781	3.30	2203	24254	3.10	2293	23727	2.97	2339	22672	2.79	2386
	41	26627	3.47	2248	26099	3.27	2340	25572	3.14	2387	24518	2.95	2434
	43	27418	3.50	2294	26890	3.30	2388	26363	3.17	2435	25309	2.99	2484
	47	27945	3.50	2341	27418	3.30	2436	26890	3.17	2485	25836	2.99	2535
	53	28208	3.43	2411	27681	3.23	2509	27154	3.11	2560	26099	2.93	2611
	59	28472	3.36	2483	27945	3.17	2585	27418	3.05	2636	26363	2.87	2689
	64	29263	3.35	2558	28736	3.16	2662	28208	3.04	2716	27154	2.87	2770
70	30054	3.34	2635	29527	3.16	2742	28999	3.04	2797	27945	2.87	2853	
75	30845	3.33	2714	30318	3.15	2824	29790	3.03	2881	28736	2.87	2939	

*Maximum Output values are not based on AHRI test conditions

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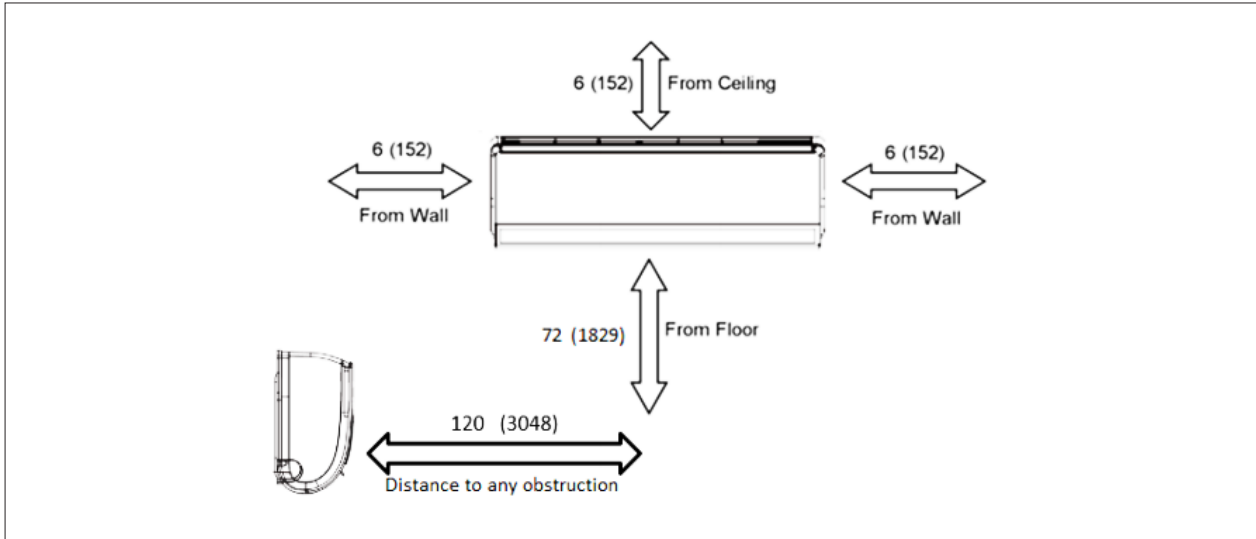


DIMENSIONAL SPECIFICATIONS: TW24HXCA5D

MINIMUM SPACING REQUIREMENTS

INDOOR

Units: inch (mm)



MINIMUM OUTDOOR CLEARANCES

Units: inch (mm)

