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	☐ Reference	☐ Approval	☐ Construction
Unit Designation	Schedule No.			

AHRI CERTIFIED REF NO: 211177517





XE72-44/E (Optional)



XE71-00/E (Optional)



YAA1FB8 (Standard)



SQZ003 (Optional)



GENERAL FEATURES

- Easy installation and cleaning
- Self-cleaning function
- Fast cooling with meticulous care
- WIFI included
- 3D air outlet
- Wired Controller/thermostat (Optional)
- 7 indoor fan speeds
- Copper tube/Aluminum fins w/Acrylic resin anti-corrosion both inside and out
- Outdoor temperature display
- I-FEEL function

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
Operating Range			RLA	0.73 A
Cooling	(Max)	122°F (50°C)	**Sound Pressure Level**	54 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
Rated		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	25.0-ft
Interconnecting Cable Wire Size		14-4 AWG	MAX Refrigerant Pipe Length	131.0-ft
MCA		15A	MIN Refrigerant Pipe Length	10.0-ft
MOCP/Max Breaker Size		20 A	MAX Refrigerant Pipe Height Difference	82.0-ft

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FEATURES & FUNCTION SUMMARY: TW24HXCA5D

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	Vertical
Intelligent Defrosting	YES

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EXTENDED RATINGS: TW24HXCA5D

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	Power Input (W)	TC (Btu/h)	SC (Btu/h	SHR	EER	Power Input (W)	TC (Btu/h)	SC (Btu/h	SHR	EER	Power Input (W)
MAX OUTPUT*	0°F	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°F	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°F	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°F	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°F	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°F	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°F	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°F	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°F	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°F	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°F	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°F	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°F	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°F	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 - Coeffecient of Performance

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EXTENDED RATINGS: TW24HXCA5D

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

LEGEND:	W - Watts
	DB - Dry Bulb
	TC - Total Capacity
	SC - Sensible Capacity
	SHR - Sensible Heat Ratio
	COP - Coeffecient of Performance

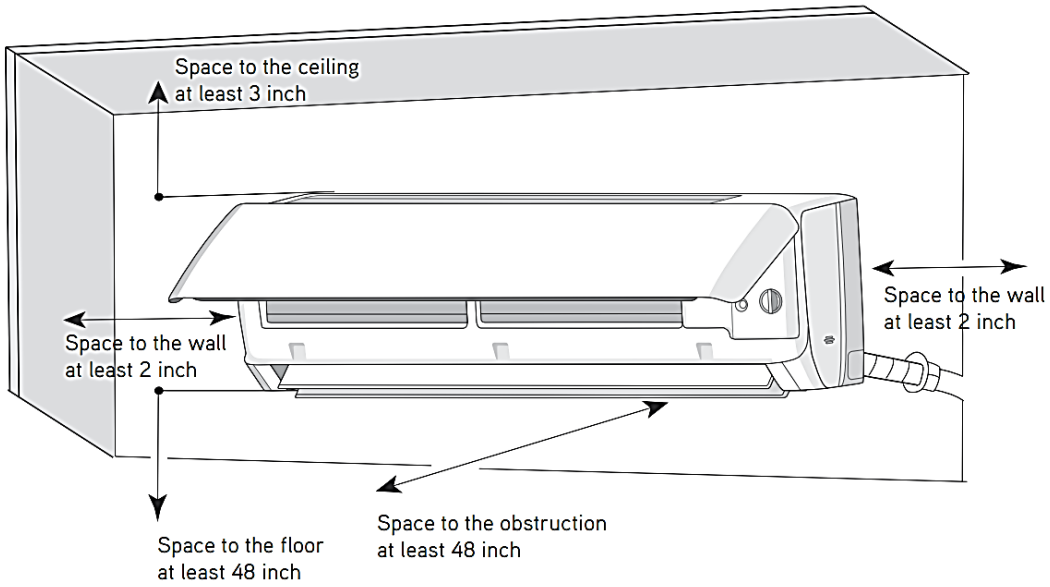
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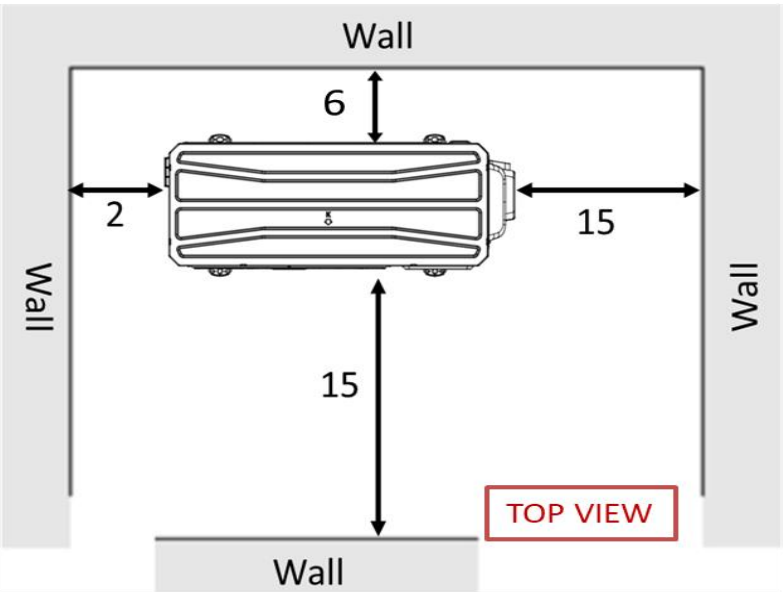
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DIMENSIONAL SPECIFICATIONS: TW24HXCA5D

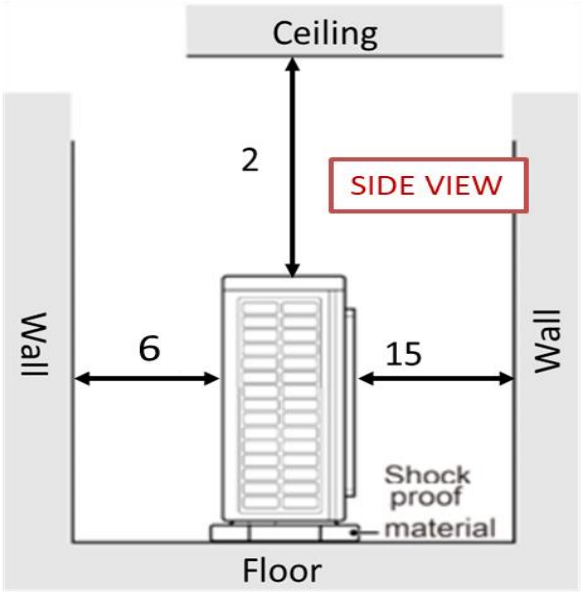
MINIMUM SPACING REQUIREMENTS

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

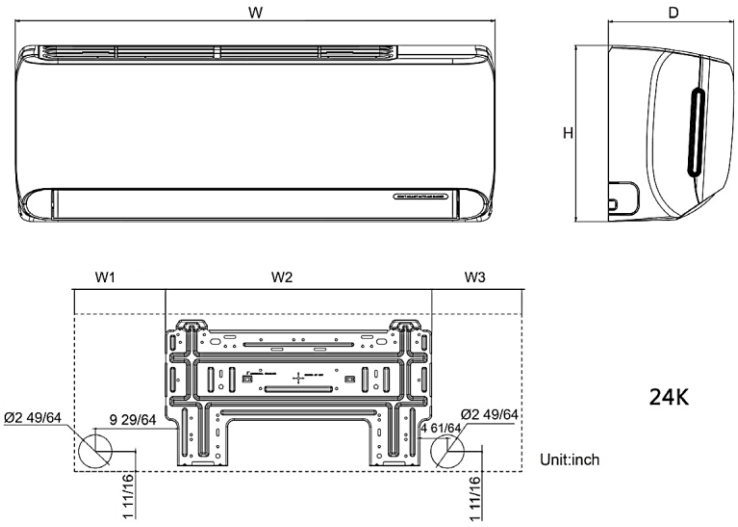
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DIMENSIONAL SPECIFICATIONS: TW24HXCA5D

INDOOR UNIT DIMENSIONS

Model No: TW24HXCA5DI

Unit: inch



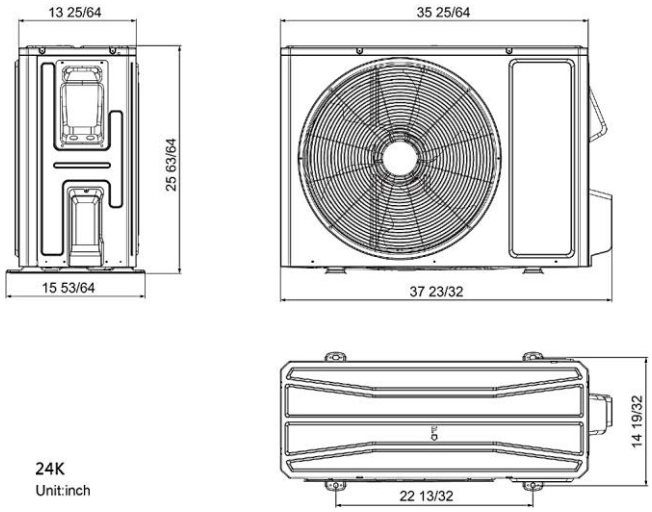
Dimensions	
D	9 11/16
H	13 7/64
W	42 7/16
W1	10 3/16
W2	22 3/32
W3	10 5/32

Weight (Net/Shipping) 33.1 / 39.7 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: TW24HXCA5DO



Weight (Net/Shipping) 97 /106.9 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.