HEAT / COOL

DAILY CHARMING, COOLING CHARMO

18,000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

SUBMITTAL DATA: TW18HXCA5D

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

AHRI CERTIFIED REF NO: 211177538





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		17,600 BTU/H	Type	Cross-flow
Capacity Range		3,753-19,960BTU/H	Output Power	45W
Power Input		1,750 W	FLA	0.70A
Power Input (Min/Max)		200/2,300 W	Fan Speeds	7
SEER / SEER2		17.5 / 17.5	Air flow (Min/Max)	283/618 CFM
EER / EER2		10.05 / 10.05	**Sound Pressure Level**	
Heating			Cooling (Low/High)	32/50 dB(A)
Rated Capacity at 47° F		19,100 BTU/H	Heating (Low/High)	32/50 dB(A)
Capacity Range		2,730-22,519 BTU/H	**Dehumidification**	3.8 pt/hr
Power Input		1,750 W	**OUTDOOR UNIT DATA**	
Power Input (Min/Max)		260 / 2,300 W	**Compressor**	
HSPF/HSPF2		9.0 / 8.5	Type	DC Inverter Driven, Rotary
COP		3.20	RLA	9.35 A
			Fan Motor	
			Output Power	30 W
Operating Range			RLA	0.9 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)	1/2-in
Power Supply			Connection Method	Flared
Rated		208/230 V, 1 Phase, 60 Hz	Factory Charge	R410A/44.1 oz
Voltage Range		187 - 253 V	Additional Charge	0.215 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		14A	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: TW18HXCA5D

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: 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	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	8777	6670	76%	12.9	678	9048	6696	74%	12.9	699	9328	6735	72%	12.9	721	9515	6755	71%	13.0	731
	5°F	9108	6922	76%	12.6	721	9390	6948	74%	12.6	744	9680	6989	72%	12.6	767	9874	7010	71%	12.7	778
	14°F	9439	7174	76%	12.3	767	9731	7201	74%	12.3	791	10032	7243	72%	12.3	816	10233	7265	71%	12.4	828
	23°F	9770	7425	76%	12.0	816	10072	7454	74%	12.0	842	10384	7497	72%	12.0	868	10592	7520	71%	12.0	881
	32°F	10267	7803	76%	11.8	868	10585	7833	74%	11.8	895	10912	7988	73%	11.8	923	11130	7902	71%	11.9	937
	41°F	11508	8976	78%	12.5	924	11864	9016	76%	12.5	952	12231	8953	73%	12.5	982	12475	9045	73%	12.5	997
	50°F	12114	9449	78%	11.8	1027	12488	9491	76%	11.8	1058	12874	9424	73%	11.8	1091	13132	9521	73%	11.9	1107
	59°F	12751	9946	78%	11.8	1081	13145	9991	76%	11.8	1114	13552	9893	73%	11.8	1148	13823	10022	73%	11.9	1166
	68°F	14168	11051	78%	11.5	1228	14606	11101	76%	11.5	1266	15058	10992	73%	11.5	1305	15359	11135	73%	11.6	1325
	77°F	17278	13477	78%	10.6	1637	17812	13715	77%	10.6	1688	18363	13772	75%	10.6	1740	18730	13580	73%	10.6	1766
	86°F	18780	15024	80%	9.2	2032	19361	14908	77%	9.2	2095	19960	14970	75%	9.2	2160	20359	15371	76%	9.3	2192
	95°F	16560	13248	80%	10.1	1647	17072	13145	77%	10.1	1698	17600	13552	77%	10.1	1750	17952	13554	76%	10.1	1776
	104°F	15787	12630	80%	9.1	1741	16276	12532	77%	9.1	1795	16779	13423	80%	9.1	1850	17115	12922	76%	9.1	1878
	113°F	15017	12013	80%	8.2	1835	15481	12075	78%	8.2	1892	15960	12768	80%	8.2	1950	16279	12291	76%	8.2	1979

*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: 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°F	10810	1.72	1844	10486	1.64	1872	9961	1.52	1918	9822	1.48	1940
	0°F	11750	1.83	1882	11398	1.75	1910	10828	1.62	1958	10676	1.58	1979
	6°F	12500	1.91	1920	12125	1.82	1949	11519	1.69	1998	11357	1.65	2019
	10°F	13429	1.97	2002	13026	1.88	2032	12375	1.74	2083	12202	1.70	2106
	16°F	14440	2.05	2064	14007	1.96	2095	13306	1.82	2148	13120	1.77	2171
	19°F	15200	2.09	2128	14744	2.00	2160	14007	1.85	2214	13811	1.81	2238
	24°F	15656	2.13	2149	15186	2.04	2182	14427	1.89	2236	14225	1.84	2261
	32°F	16800	2.28	2155	16296	2.18	2187	15481	2.02	2242	15264	1.97	2267
	41°F	21854	2.95	2168	21198	2.82	2201	20138	2.62	2256	19857	2.55	2280
	43°F	22300	2.98	2190	21631	2.85	2223	20549	2.64	2278	20262	2.58	2303
	47°F	19100	3.20	1750	18527	3.06	1776	17601	2.83	1821	17354	2.76	1841
	53°F	18200	3.00	1776	17654	2.87	1803	16771	2.66	1848	16537	2.59	1868
	59°F	16380	3.11	1545	15889	2.97	1568	15094	2.75	1608	14883	2.68	1625
	64°F	15725	3.17	1452	15253	3.03	1474	14490	2.81	1511	14288	2.74	1528
	70°F	11794	3.45	1002	11440	3.30	1017	10868	3.05	1043	10716	2.98	1054
	75°F	8256	3.22	752	8008	3.08	763	7607	2.85	782	7501	2.78	791

*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

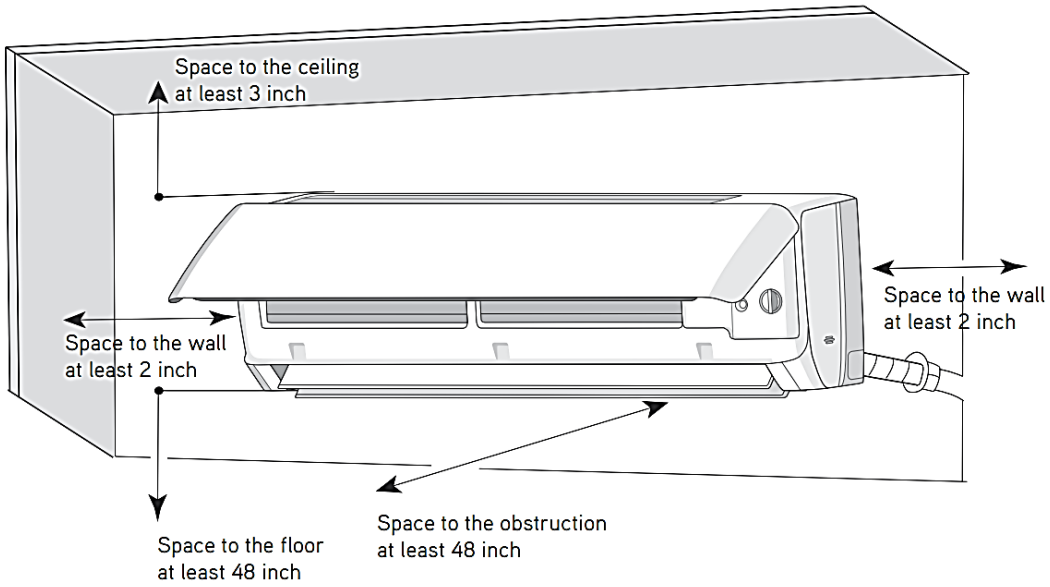
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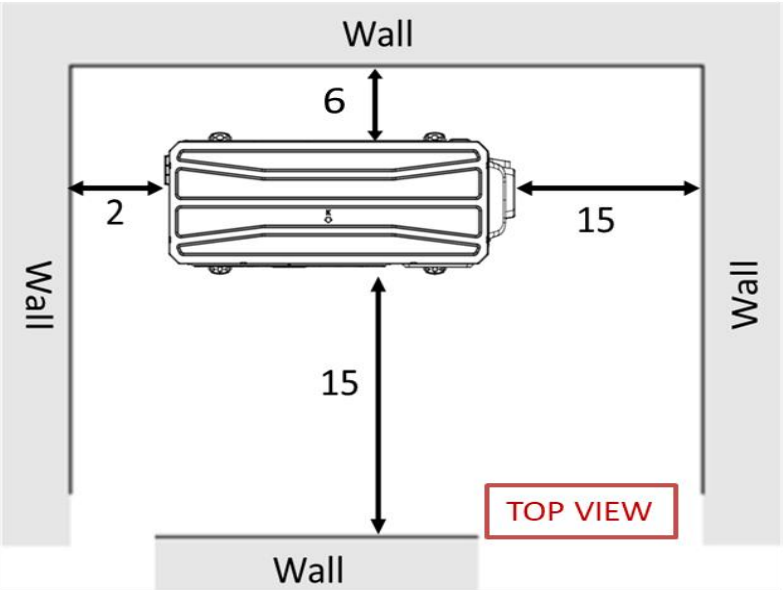
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DIMENSIONAL SPECIFICATIONS: TW18HXCA5D

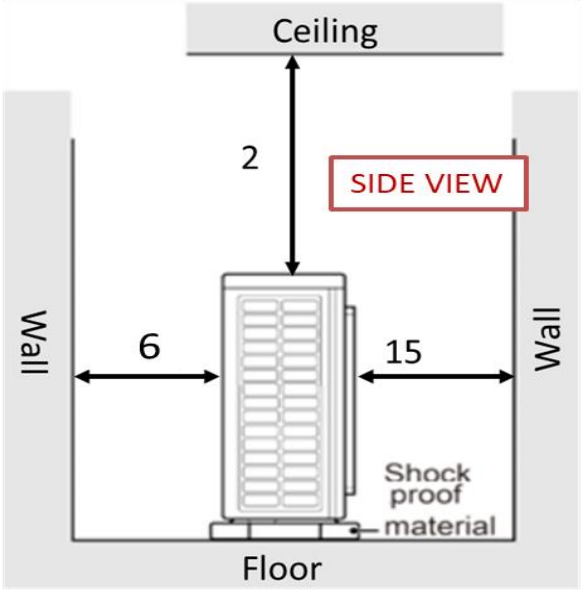
MINIMUM SPACING REQUIREMENTS

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

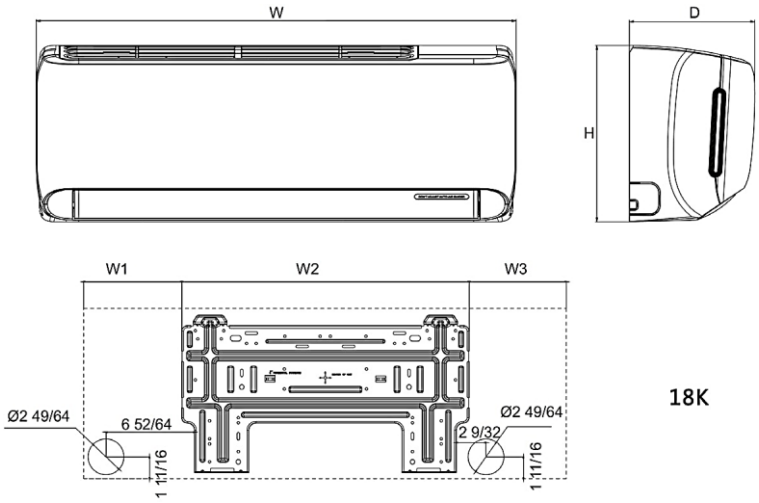
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DIMENSIONAL SPECIFICATIONS: TW18HXCA5D

INDOOR UNIT DIMENSIONS

Model No: TW18HXCA5DI

Unit: inch



18K

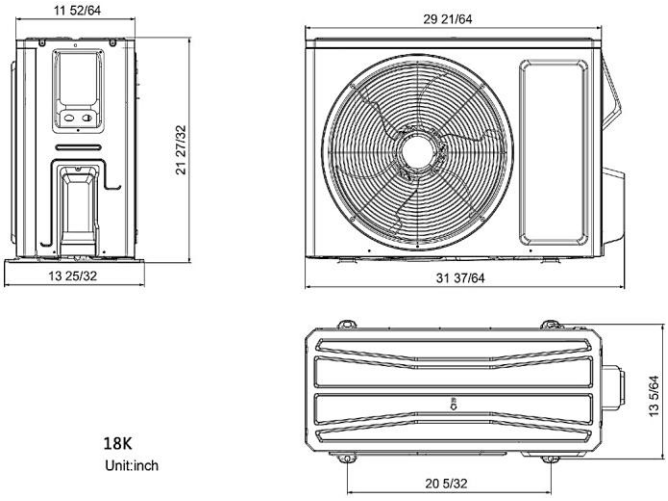
Dimensions	
D	9 11/16
H	13 7/64
W	37 1/8
W1	7 35/64
W2	22 3/32
W3	7 31/64

Weight (Net/Shipping) 28.7 / 34.2 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

OUTDOOR UNIT DIMENSIONS

Model No: TW18HXCA5DO



18K
Unit:inch

Weight (Net/Shipping) 71.7/77.2 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-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.