ULTRA HEAT / ULTRA COOL

SUPERIOR PERFORMANCE IN EXTREME TEMPERATURES

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

SUBMITTAL DATA: TW24HQ3D6D

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

AHRI CERTIFIED REF NO: 10062021







SYSTEM RATINGS			INDOOR UNIT DATA	
Cooling			**Fan Motor**	
Rated Capacity at 95° F		22,000 BTU/H	Type	Cross-flow
Capacity Range		6,800 -30,700 BTU/H	Output Power	70W
Power Input		1,700 W	FLA	0.38A
Power Input (Min/Max)		450/3,700 W	Fan Speeds	7
SEER / SEER2		21.5	Air flow (Min/Max)	383/824 CFM
EER / EER2		13.0	**Sound Pressure Level**	
Heating			Cooling (Low/High)	34/49 dB(A)
Rated Capacity at 47° F		24,000 BTU/H	Heating (Low/High)	34/49 dB(A)
Capacity Range		6,800 -32,000 BTU/H	**Dehumidification**	4.23 pt/hr
Power Input		2,000 W	**OUTDOOR UNIT DATA**	
Power Input (Min/Max)		380/3700 W	**Compressor**	
HSPF/HSPF2		12.0	Type	DC Inverter Driven, Rotary
COP		3.5	RLA	16 A
Heating at 17° F			**Fan Motor**	
Rated Capacity		15,500 BTU/H	Output Power	90 W
Operating Range			RLA	0.65 A
Cooling	(Max)	129°F (54°C)	**Sound Pressure Level**	54 dB(A)
	(Min)	0°F (-18°C)	**Refrigerant Piping Data**	
Heating	(Max)	75°F (24°C)	Liquid Pipe Size (OD)	5/8-in
	(Min)	-22°F (-30°C)	Gas Pipe Size (OD)	1/4-in
Power Supply			Connection Method	Flared
Rated		208/230 V, 1 Phase, 60 Hz	Factory Charge	R410A/81.1 oz
Voltage Range		187 - 253 V	Additional Charge	0.5 oz/ft
Main Power Wire Size		8-2 AWG	Pre-Charge Length	25-ft
Interconnecting Cable Wire Size		14-4 AWG	MAX Refrigerant Pipe Length	164-ft
MCA		22 A	MIN Refrigerant Pipe Length	10.0-ft
MOCP/Max Breaker Size		35 A	MAX Refrigerant Pipe Height Difference	98.4-ft

GENERAL FEATURES

- Variable Speed (Inverter) Two-Stage Compressor
- Low Ambient Heating (down to -22°F/-30°C)
- High Ambient Cooling (up to - 129° F/54°C)
- WIFI Included
- Wireless Remote with LCD Display (included)
- Wired Controller (Optional) XE73-44/E
- 7 Indoor Fan Speeds /4 Way Airflow Operation
- Copper Tube/Aluminum Fins w/Acrylic Resin Anti-Corrosion both inside and out
- I-FEEL Function

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FEATURES & FUNCTION SUMMARY: TW24HQ3D6D

SYSTEM FEATURES	
Inverter Type	G10
Ultra Low Frequency Torque Control	Yes
Power Factor Correction	Yes
Compressor Type	High Eff. Two Stage Rotary
Refrigerant Type	R410A
Basepan With Electric Heater	YES
Compressor With Electric Heater	YES
Indoor & Outdoor Fin Coating	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	NO
WIFI Included	YES
Indoor Fan Type	Crossflow
Multi Fan Speeds	7 Speeds
Indoor Unit Display	YES
Auxiliary Electrical Heater	NO
Ventilation (Outdoor Air)	NO
REMOTE CONTROLLER FUNCTIONS	
Auto Mode	YES
Auto Fan	YES
Auto Swing (Horizontal Auto Swing)	YES
Auto Swing (Vertical Auto Swing)	YES
Clock on Remote Controller	YES
Dry Mode	YES
Dry Anti-Mildew (X-Fan) Mode	YES
Energy Saving Mode	NO
Dirty Filter Alert	NO
I Feel Function	YES
Lock on Remote Controller	YES
Quiet Mode	YES
Room Temperature Display	NO
Sleep Mode	YES
4 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: TW24HQ3D6D

ULTRA COOL

ULTRA HEAT

COOLING PERFORMANCE							HEATING PERFORMANCE				
Outdoor Ambient Temperature (DB)		Return Air Temperature 80° F (DB) TC (Btu/h)	SHR	EER	Power Input (W)	SHR %	Outdoor Ambient Temperature (DB)		Return Air Temperature 70°F (DB) TC (Btu/h)	COP	Power Input (W)
MAX OUTPUT	0°F	8903	6454	1.47	1775	72.49%	MAX OUTPUT	-22°F	12854	1.30	2903
	5°F	11666	8516	1.54	2227	73.00%		-20°F	13391	1.33	2951
	10°F	12622	9203	1.55	2386	72.91%		-15°F	13749	1.36	2963
	15°F	12886	9702	1.56	2421	75.29%		-10°F	14379	1.41	2989
	20°F	13425	9882	1.61	2443	73.61%		-5°F	15360	1.49	3023
	25°F	13815	10223	1.64	2461	74.00%		0°F	18750	1.78	3085
	30°F	14429	10749	1.71	2472	74.50%		5°F	19070	1.78	3148
	35°F	15128	11250	1.73	2563	74.37%		10°F	19200	1.75	3212
	40°F	16271	12203	1.75	2718	75.00%		15°F	20480	1.83	3278
	45°F	17263	13008	1.82	2780	75.35%		17°F	20942	1.85	3317
	50°F	18113	13675	1.86	2847	75.50%		20°F	21440	1.88	3345
	55°F	18951	14235	1.91	2908	75.11%		25°F	24000	2.06	3413
	60°F	19461	15001	1.95	2925	77.08%		30°F	24320	2.05	3482
	65°F	20262	15500	2.00	2975	76.50%		35°F	26504	2.21	3515
	70°F	22603	16658	2.08	3158	73.70%		40°F	30400	2.51	3553
	75°F	24253	18647	2.15	3307	76.89%		45°F	30988	2.52	3603
	80°F	25554	19085	2.21	3389	74.68%		47°F	31360	2.53	3626
	85°F	26402	20461	2.26	3425	77.50%		50°F	32000	2.53	3700
	90°F	25909	20337	2.21	3436	78.49%		55°F	26240	3.73	2060
	95°F	25788	20111	2.19	3446	77.99%		60°F	24480	3.38	2122
	100°F	20770	18220	2.13	2858	87.72%		65°F	23200	3.11	2185
	105°F	18269	12780	2.09	2562	69.95%		70°F	21920	2.85	2251
	110°F	14573	11258	2.01	2125	77.25%		75°F	20640	2.61	2319
	115°F	12437	11018	1.98	1841	88.59%					
	120°F	11300	10085	1.92	1725	89.25%					
	125°F	10891	9807	1.89	1689	90.05%					
	129°F	9529	9620	1.78	1569	100.95%					

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

*Maximum Output values are not based on AHRI test conditions

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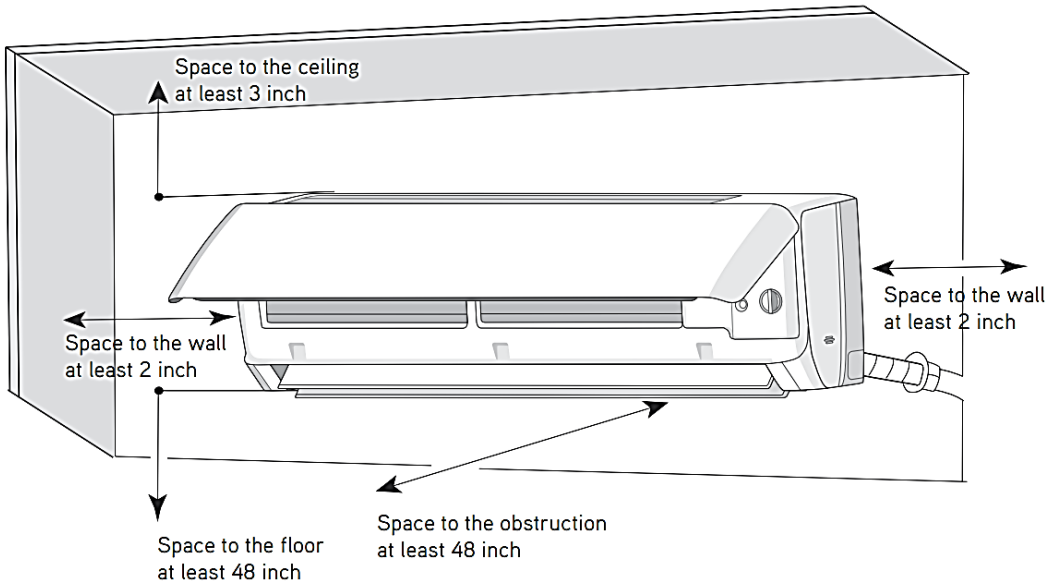
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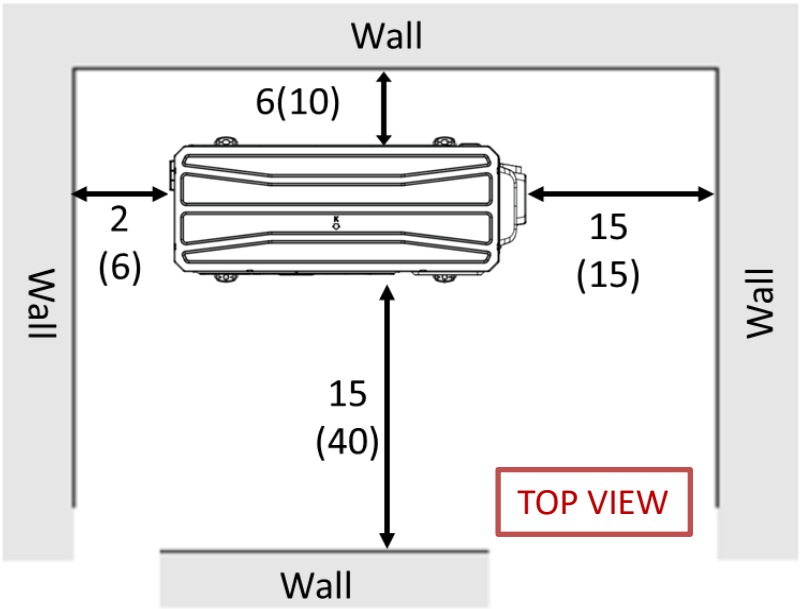
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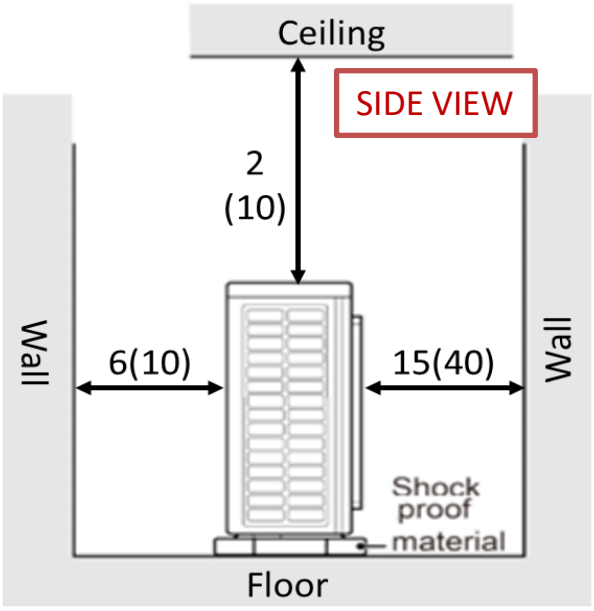
DIMENSIONAL SPECIFICATIONS: TW24HQ3D6D

MINIMUM SPACING REQUIREMENTS

Unit: inch







The ceiling should be open

Note:

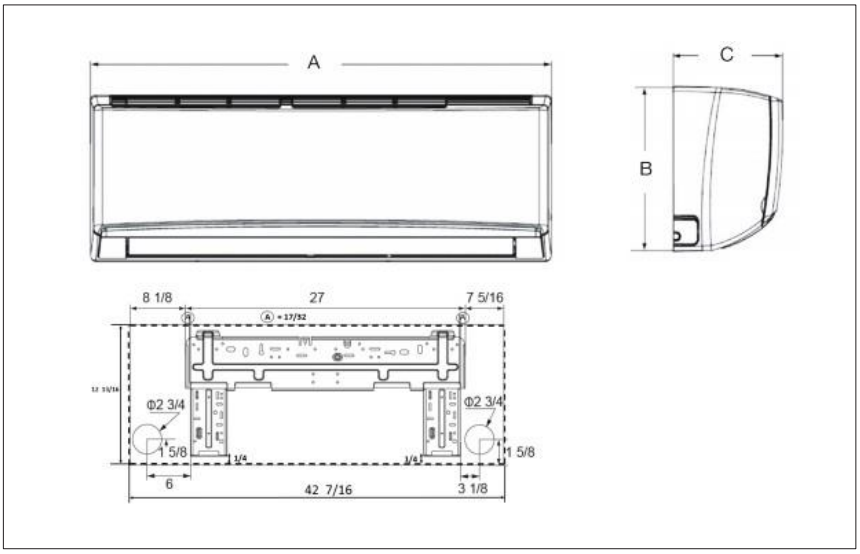
1. Apply the value in the brackets to achieve best performance
2. Wall height on air outlet side ≤ 50inch

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DIMENSIONAL SPECIFICATIONS: TW24HQ3D6D

INDOOR UNIT DIMENSIONS

Model No: TW24HQ3D6DI



Unit: inch

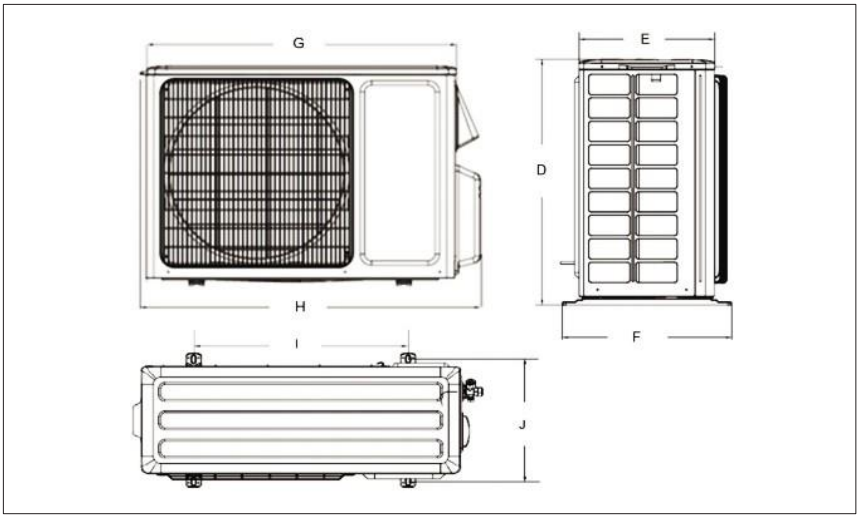
Dimensions	
A	44 1/2
B	13
C	9 3/4

Weight (Net/Shipping) 36 / 43 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: TW24HQ3D6DO



Dimensions	
D	31 3/8
E	14 5/8
F	17
G	36 1/4
H	39 3/8
I	24
J	15 3/8

Weight (Net/Shipping) 148 /158 LBS

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	5/8in 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.