ULTRA HEAT / ULTRA COOL

SUPERIOR PERFORMANCE IN EXTREME TEMPERATURES

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

SUBMITTAL DATA: TW12HQ3D6D

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

AHRI CERTIFIED REF NO: 10062019







SYSTEM RATINGS			INDOOR UNIT DATA	
Cooling			**Fan Motor**	
Rated Capacity at 95° F		12,000 BTU/H	Type	Cross-flow
Capacity Range		2,900 - 15,354 BTU/H	Output Power	60W
Power Input		784 W	FLA	0.09A
Power Input (Min/Max)		75/1,500 W	Fan Speeds	7
SEER / SEER2		30.5	Air flow (Min/Max)	235/500 CFM
EER / EER2		15.3	**Sound Pressure Level**	
Heating			Cooling (Low/High)	22/49 dB(A)
Rated Capacity at 47° F		12,200 BTU/H	Heating (Low/High)	22/49 dB(A)
Capacity Range		3,071 - 18,766 BTU/H	**Dehumidification**	3.0 pt/hr
Power Input		940 W	**OUTDOOR UNIT DATA**	
Power Input (Min/Max)		250/1600W	**Compressor**	
HSPF/HSPF2		14.0	Type	DC Inverter Driven, Rotary
COP		3.8	RLA	6.9 A
Heating at 17° F			**Fan Motor**	
Rated Capacity		8,100 BTU/H	Output Power	30 W
Operating Range			RLA	0.24 A
Cooling	(Max)	129°F (54°C)	**Sound Pressure Level**	48 dB(A)
	(Min)	0°F (-18°C)	**Refrigerant Piping Data**	
Heating	(Max)	75°F (24°C)	Liquid Pipe Size (OD)	1/4-in
	(Min)	-22°F (-30°C)	Gas Pipe Size (OD)	1/2-in
Power Supply			Connection Method	Flared
Rated		208/230 V, 1 Phase, 60 Hz	Factory Charge	R410A/49.4 oz
Voltage Range		187 - 253 V	Additional Charge	0.5 oz/ft
Main Power Wire Size		12-2 AWG	Pre-Charge Length	25-ft
Interconnecting Cable Wire Size		14-4 AWG	MAX Refrigerant Pipe Length	98-ft
MCA		9 A	MIN Refrigerant Pipe Length	10-ft
MOCP/Max Breaker Size		15 A	MAX Refrigerant Pipe Height Difference	49-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: TW12HQ3D6D

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: TW12HQ3D6D

ULTRA COOL

COOLING PERFORMANCE						
Outdoor Ambient Temperature (DB)		Return Air Temperature 80° F (DB) TC (Btu/h)	SHR	EER	Power Input (W)	SHR %
MAX OUTPUT	0°F	7000	5075	3.22	637	73%
	5°F	7280	5314	3.28	650	73%
	10°F	7490	5487	3.28	670	73%
	15°F	7700	5660	3.28	689	74%
	20°F	8050	5938	3.30	715	74%
	25°F	8400	6216	3.32	741	74%
	30°F	8680	6446	3.35	761	74%
	35°F	8960	6675	3.37	780	75%
	40°F	9800	7350	3.40	845	75%
	45°F	10220	7692	3.28	917	75%
	50°F	10640	8033	3.16	988	76%
	55°F	11340	8618	3.20	1040	76%
	60°F	12110	9236	3.22	1105	76%
	65°F	12880	9853	3.23	1170	77%
	70°F	13510	10371	3.30	1203	77%
	75°F	14140	10888	3.36	1235	77%
	80°F	14700	11357	3.44	1255	77%
	85°F	15260	11827	3.51	1274	78%
	90°F	14630	11373	3.34	1287	78%
	95°F	14000	10920	3.16	1300	78%
	100°F	13300	10406	2.90	1352	78%
	105°F	12600	9891	2.63	1404	79%
	110°F	12180	9591	2.47	1450	79%
	115°F	11760	9290	2.31	1495	79%
	120°F	10360	8236	2.01	1508	80%
	125°F	9380	7478	1.82	1515	80%
	129°F	8400	6720	1.62	1521	80%

ULTRA HEAT

HEATING PERFORMANCE				
Outdoor Ambient Temperature (DB)		Return Air Temperature 70°F (DB) TC (Btu/h)	COP	Power Input (W)
MAX OUTPUT	-22°F	7137	1.37	1523
	-20°F	7549	1.43	1544
	-15°F	7967	1.49	1566
	-10°F	8502	1.57	1588
	-5°F	9011	1.64	1610
	0°F	10400	1.86	1639
	5°F	12000	2.11	1668
	10°F	12800	2.33	1610
	15°F	13520	2.48	1602
	17°F	14240	2.62	1595
	20°F	14400	2.77	1523
	25°F	14560	2.89	1479
	30°F	14880	2.98	1465
	35°F	15040	3.09	1428
	40°F	15200	3.20	1392
	45°F	15680	3.23	1421
	47°F	16000	3.23	1450
	50°F	16640	3.31	1472
	55°F	17280	3.39	1494
	60°F	18400	3.51	1537
	65°F	17600	3.26	1581
	70°F	16960	3.12	1595
	75°F	15840	2.88	1610

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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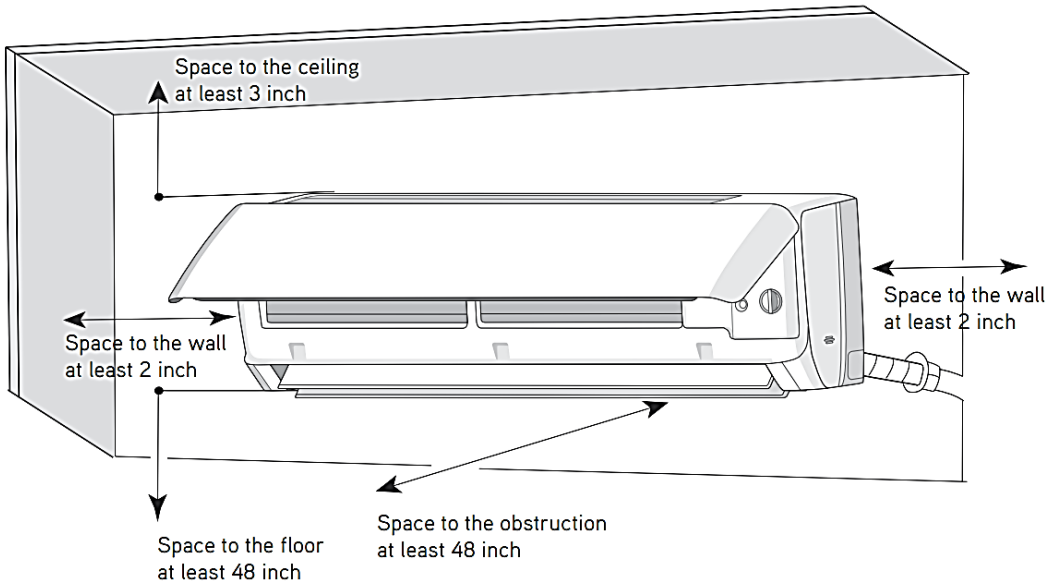
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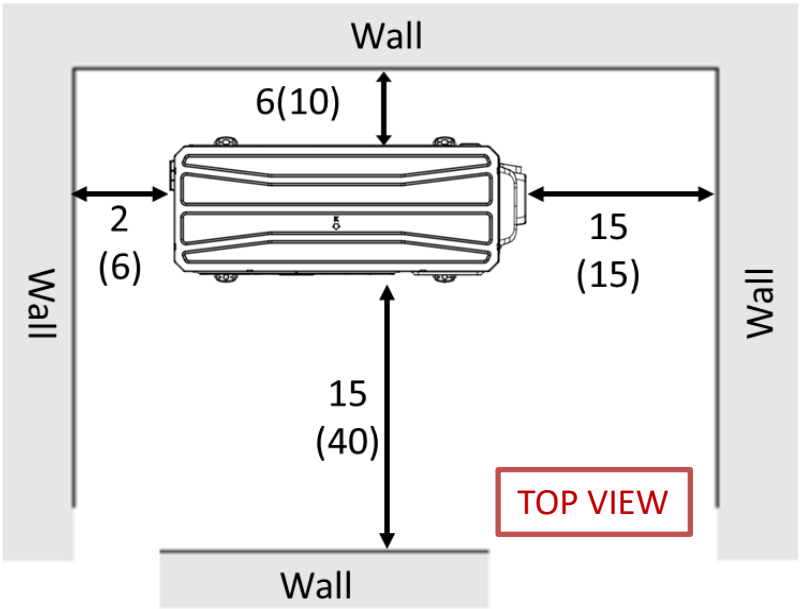
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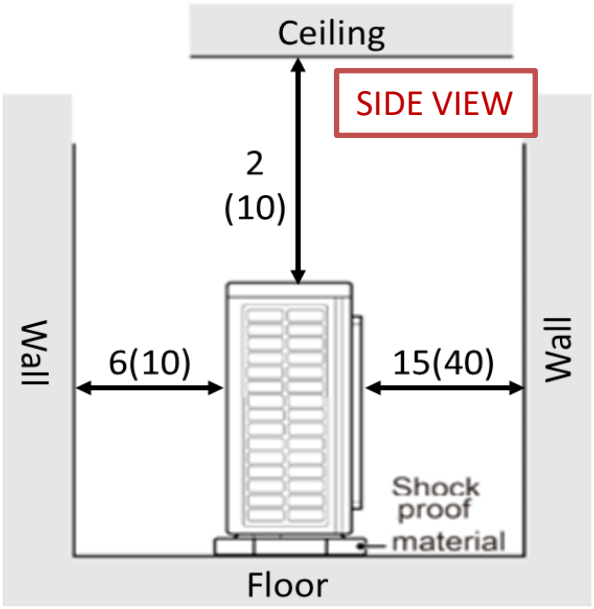
DIMENSIONAL SPECIFICATIONS: TW12HQ3D6D

MINIMUM SPACING REQUIREMENTS

Unit: inch







The ceiling should be open

Note:

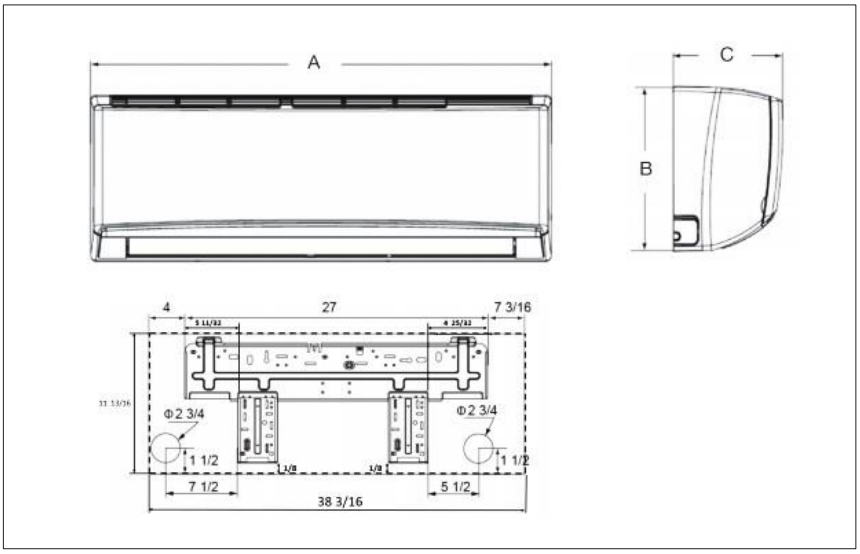
1. Apply the value in the brackets to achieve best performance
2. Wall height on air outlet side ≤ 50inch

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DIMENSIONAL SPECIFICATIONS: TW12HQ3D6D

INDOOR UNIT DIMENSIONS

Model No: TW12HQ3D6DI



Unit: inch

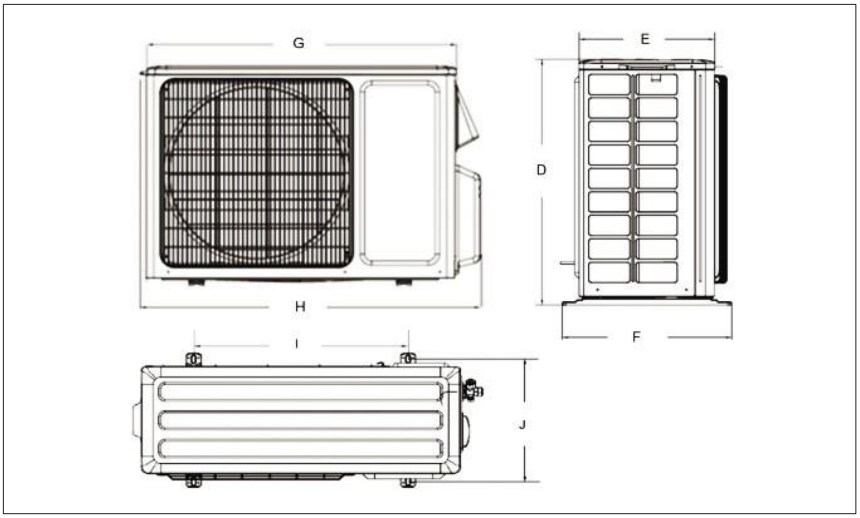
Dimensions	
A	39 1/2
B	12
C	8 7/8

Weight (Net/Shipping) 29.8 / 36.4 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: TW12HQ3D6DO



Dimensions	
D	23 1/2
E	12
F	14 7/8
G	33 1/4
H	34 5/8
I	19 3/8
J	13 1/2

Weight (Net/Shipping) 99.2 /105.8 LBS

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