ULTRA HEAT / ULTRA COOL

SUPERIOR PERFORMANCE IN EXTREME TEMPERATURES

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

SUBMITTAL DATA: TW18HQ3D6D

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		18,000 BTU/H	Type	Cross-flow
Capacity Range		4,094 -21,837 BTU/H	Output Power	60W
Power Input		1,700 W	FLA	0.24A
Power Input (Min/Max)		450/3,700 W	Fan Speeds	7
SEER / SEER2		24.5	Air flow (Min/Max)	353/736 CFM
EER / EER2		13.5	**Sound Pressure Level**	
Heating			Cooling (Low/High)	34/48 dB(A)
Rated Capacity at 47° F		18,000 BTU/H	Heating (Low/High)	34/48 dB(A)
Capacity Range		4,094 -24,566 BTU/H	**Dehumidification**	3.8 pt/hr
Power Input		1,500 W	**OUTDOOR UNIT DATA**	
Power Input (Min/Max)		350/2500 W	**Compressor**	
HSPF/HSPF2		12.0	Type	DC Inverter Driven, Rotary
COP		3.5	RLA	15.5 A
Heating at 17° F			**Fan Motor**	
Rated Capacity		14,200 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/70.4 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	131-ft
MCA		22 A	MIN Refrigerant Pipe Length	10-ft
MOCP/Max Breaker Size		30 A	MAX Refrigerant Pipe Height Difference	66-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: TW18HQ3D6D

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: TW18HQ3D6D

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	7146	5288	2.82	742	74.0%
	5°F	7684	5763	2.85	790	75.0%
	10°F	8263	6197	2.88	840	75.0%
	15°F	8884	6752	2.91	894	76.0%
	20°F	9553	7260	2.94	951	76.0%
	25°F	10163	7825	2.94	1011	77.0%
	30°F	10812	8325	2.94	1076	77.0%
	35°F	11502	8971	2.98	1133	78.0%
	40°F	12236	9544	3.01	1192	78.0%
	45°F	13017	10283	3.04	1255	79.0%
	50°F	13848	10940	3.07	1321	79.0%
	55°F	14577	11661	3.10	1376	80.0%
	60°F	15507	12406	3.14	1449	80.0%
	65°F	16497	13362	3.20	1509	81.0%
	70°F	17931	14524	3.34	1572	81.0%
	75°F	19705	16158	3.42	1690	82.0%
	80°F	20526	16831	3.45	1742	82.0%
	85°F	21836	18342	3.52	1815	84.0%
	90°F	19918	17120	3.59	1625	86.0%
	95°F	18000	15480	3.97	1330	86.0%
	100°F	18918	15134	3.47	1596	80.0%
	105°F	19958	14968	3.05	1915	75.0%
	110°F	21410	16653	2.94	2134	77.8%
	115°F	20125	15497	2.63	2247	77.0%
	120°F	18515	14257	2.20	2472	77.0%
	125°F	16664	12831	2.06	2373	77.0%
	129°F	14164	10906	1.84	2254	77.0%

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	12126	1.32	2687
	-20°F	12764	1.34	2799
	-15°F	13436	1.37	2870
	-10°F	13996	1.40	2929
	-5°F	15049	1.49	2959
	0°F	17705	1.72	3019
	5°F	18637	1.78	3065
	10°F	19147	1.81	3095
	15°F	19739	1.95	2965
	17°F	20142	2.03	2915
	20°F	20917	2.12	2885
	25°F	21564	2.25	2815
	30°F	22230	2.32	2805
	35°F	22918	2.40	2795
	40°F	24468	2.62	2739
	45°F	27187	3.29	2425
	47°F	28320	3.39	2449
	50°F	28603	3.36	2498
	55°F	23455	3.44	1998
	60°F	21578	3.09	2048
	65°F	20499	3.06	1966
	70°F	18449	3.02	1789
	75°F	16604	2.96	1646

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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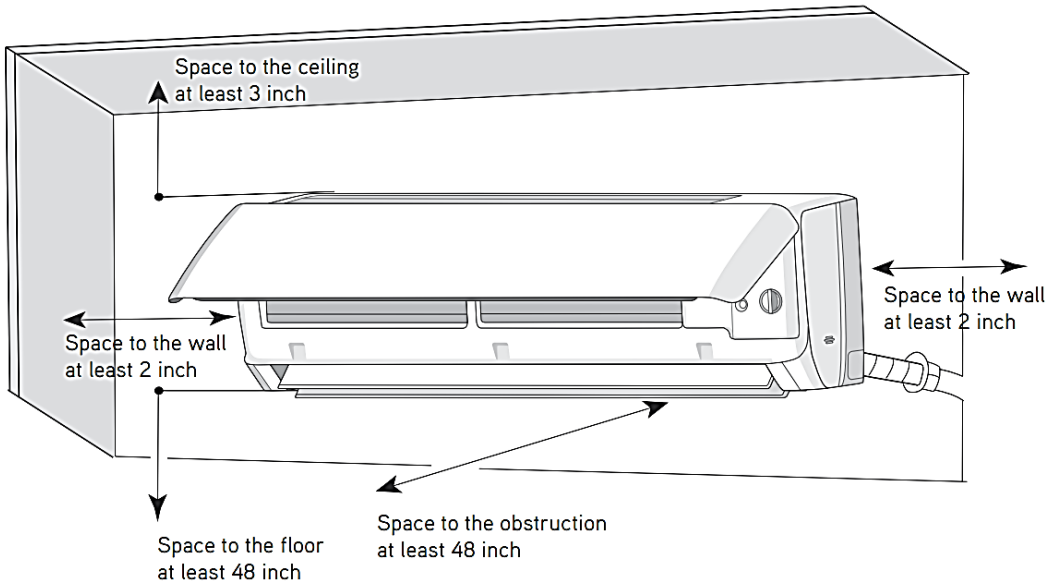
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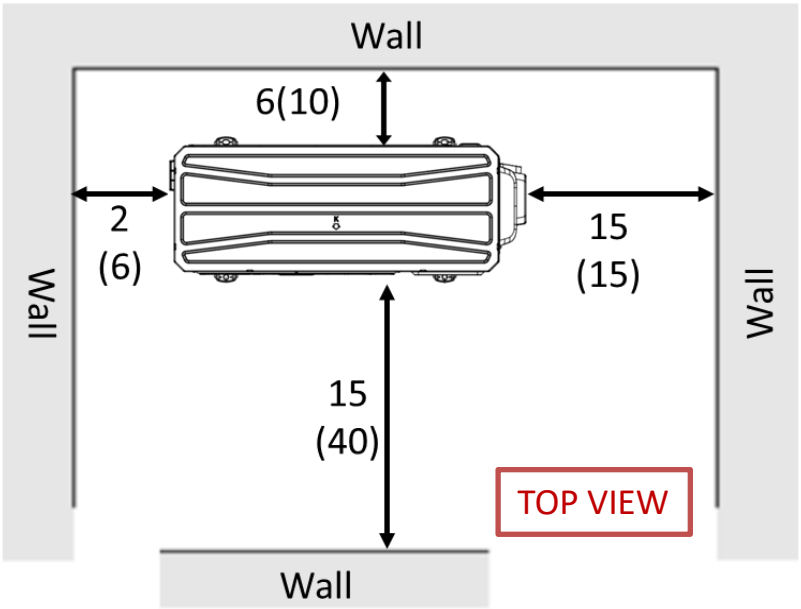
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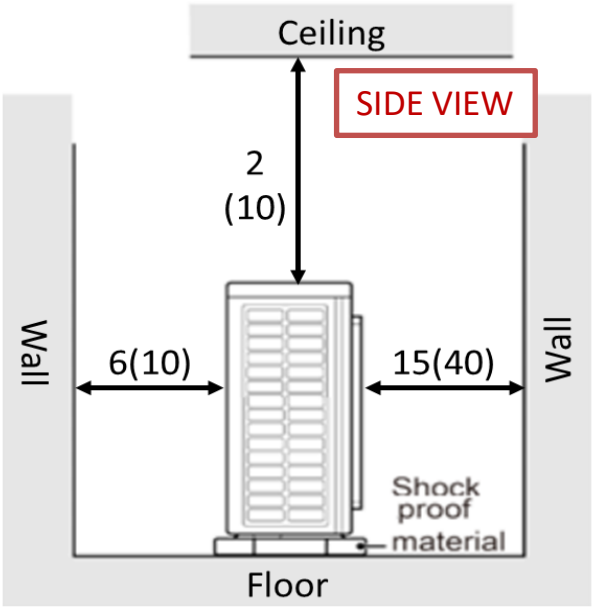
DIMENSIONAL SPECIFICATIONS: TW18HQ3D6D

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

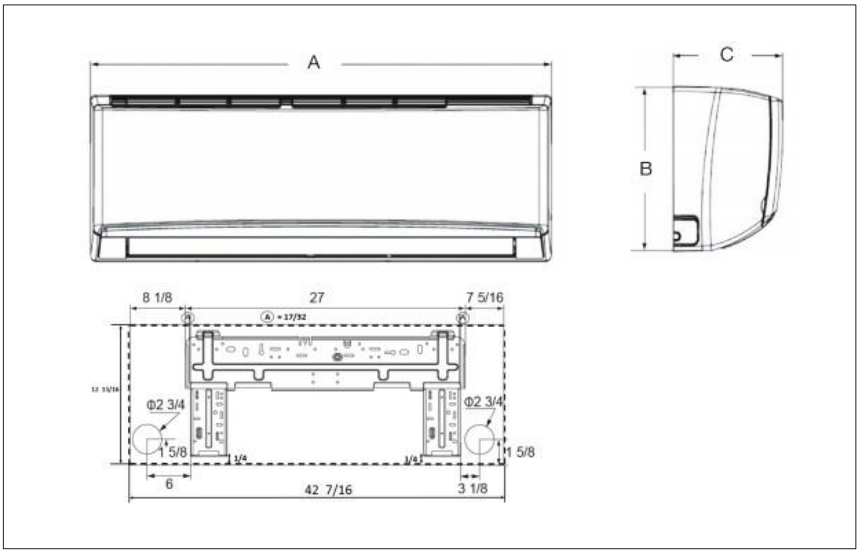
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DIMENSIONAL SPECIFICATIONS: TW18HQ3D6D

INDOOR UNIT DIMENSIONS

Model No: TW18HQ3D6DI



Unit: inch

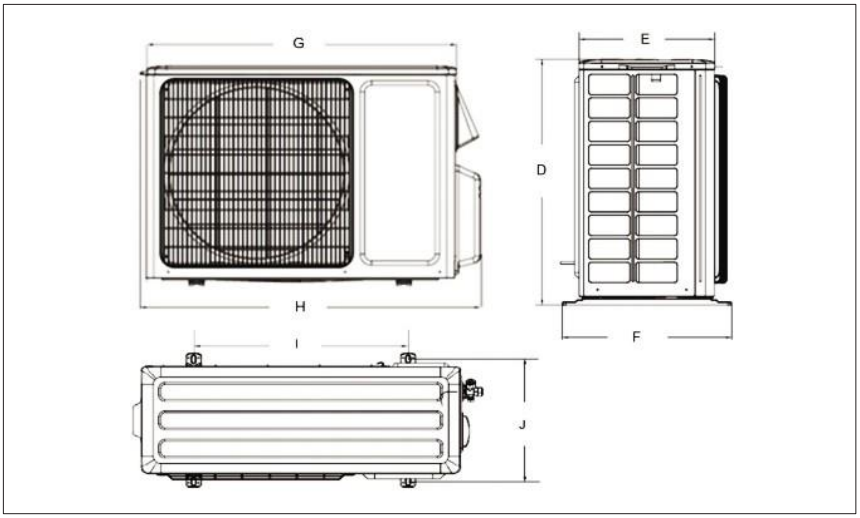
Dimensions	
A	44 1/2
B	13
C	9 3/4

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: TW18HQ3D6DO



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.

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