ULTRA HEAT / ULTRA COOL

SUPERIOR PERFORMANCE IN EXTREME TEMPERATURES

9,000 BTU / H WALL MOUNTED HEAT- PUMP SYSTEM

SUBMITTAL DATA: TW09HQ3D6D

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

AHRI CERTIFIED REF NO: 10062018







SYSTEM RATINGS			INDOOR UNIT DATA	
Cooling			**Fan Motor**	
Rated Capacity at 95° F		9,000 BTU/H	Type	Cross-flow
Capacity Range		1,535-12,966 BTU/H	Output Power	60W
Power Input		540 W	FLA	0.09A
Power Input (Min/Max)		50/1400 W	Fan Speeds	7
SEER / SEER2		38.0	Air flow (Min/Max)	206/424 CFM
EER / EER2		16.5	**Sound Pressure Level**	
Heating			Cooling (Low/High)	19/45 dB(A)
Rated Capacity at 47° F		9,000 BTU/H	Heating (Low/High)	19/45 dB(A)
Capacity Range		2,388-13,648 BTU/H	**Dehumidification**	1.7 pt/hr
Power Input		590 W	**OUTDOOR UNIT DATA**	
Power Input (Min/Max)		200/1500 W	**Compressor**	
HSPF/HSPF2		15.0	Type	DC Inverter Driven, Rotary
COP		4.5	RLA	6.9 A
Heating at 17° F			**Fan Motor**	
Rated Capacity		5,600 BTU/H	Output Power	30 W
Operating Range			RLA	0.09A
Cooling	(Max)	129°F (54°C)	**Sound Pressure Level**	48dB(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/50.4 oz
Voltage Range		187 - 253 V	Additional Charge	0.5 oz/ft
Main Power Wire Size		14-2 AWG	Pre-Charge Length	25-ft
Interconnecting Cable Wire Size		14-4 AWG	MAX Refrigerant Pipe Length	49-ft
MCA		9 A	MIN Refrigerant Pipe Length	10-ft
MOCP/Max Breaker Size		15 A	MAX Refrigerant Pipe Height Difference	33-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: TW09HQ3D6D

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: TW09HQ3D6D

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	8450	6126	2.62	952	72.5%
	5°F	8775	6384	2.64	974	72.8%
	10°F	9100	6643	2.64	994	73.0%
	15°F	9204	6765	2.64	1015	73.5%
	20°F	9680	7038	2.65	1053	72.7%
	25°F	9815	7312	2.65	1092	74.5%
	30°F	9880	7361	2.66	1106	74.5%
	35°F	10010	7457	2.66	1120	74.5%
	40°F	10660	7995	2.67	1162	75.0%
	45°F	10790	8146	2.67	1183	75.5%
	50°F	11050	8343	2.69	1204	75.5%
	55°F	11310	8539	2.71	1225	75.5%
	60°F	12350	9448	2.81	1288	76.5%
	65°F	12220	9348	2.81	1274	76.5%
	70°F	12350	9448	2.81	1288	76.5%
	75°F	13390	10310	2.95	1330	77.0%
	80°F	13650	10579	2.96	1351	77.5%
	85°F	13780	10680	2.94	1372	77.5%
	90°F	13600	10548	2.88	1385	77.6%
	95°F	13000	10140	2.72	1400	78.0%
	100°F	12610	9836	2.59	1428	78.0%
	105°F	12350	9695	2.46	1470	78.5%
	110°F	12090	9551	2.3	1540	79.0%
	115°F	11830	9346	2.25	1541	79.0%
	120°F	11490	9055	2.11	1596	78.8%
	125°F	11050	8785	2.01	1610	79.5%
	129°F	10790	8578	1.96	1610	79.5%

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	7506	1.40	1576
	-20°F	7655	1.35	1660
	-15°F	8055	1.35	1743
	-10°F	8470	1.41	1766
	-5°F	8871	1.45	1789
	0°F	9281	1.66	1643
	5°F	9690	1.84	1547
	10°F	10236	2.30	1302
	15°F	10836	2.40	1326
	17°F	10998	2.41	1331
	20°F	11191	2.42	1356
	25°F	11601	2.46	1384
	30°F	12010	2.49	1412
	35°F	12465	2.56	1429
	40°F	12966	2.64	1441
	45°F	13325	2.66	1468
	47°F	13525	2.67	1482
	50°F	13648	2.67	1500
	55°F	13921	2.69	1515
	60°F	14057	2.69	1530
	65°F	13512	2.69	1470
	70°F	12693	2.56	1455
	75°F	12010	2.50	1410

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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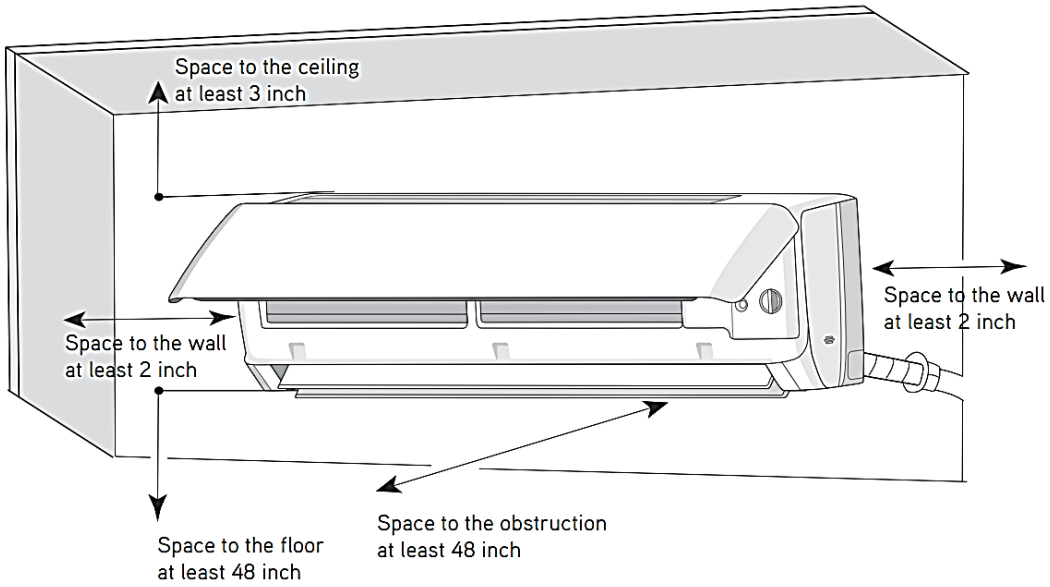
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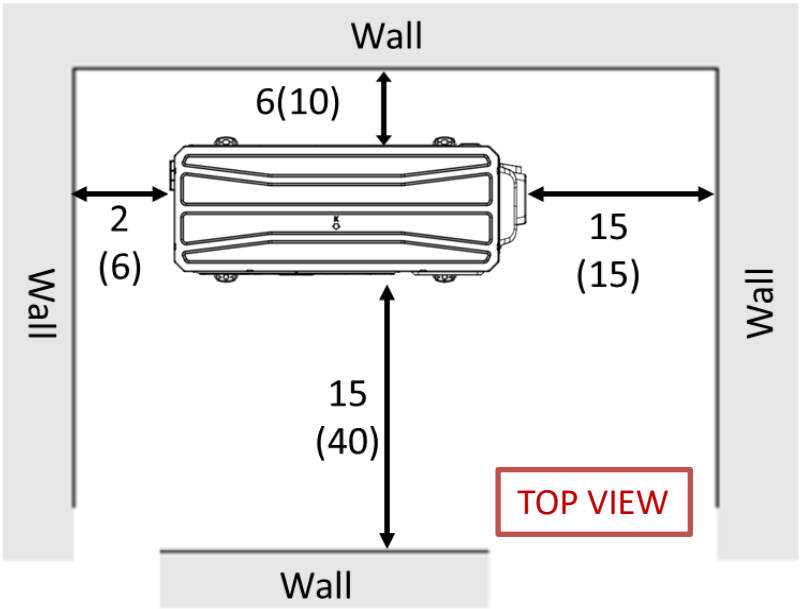
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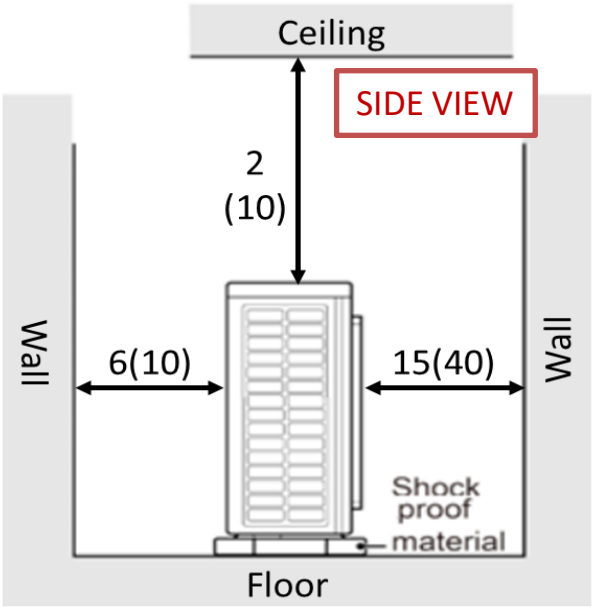
DIMENSIONAL SPECIFICATIONS: TW09HQ3D6D

MINIMUM SPACING REQUIREMENTS

Unit: inch







The ceiling should be open

Note:

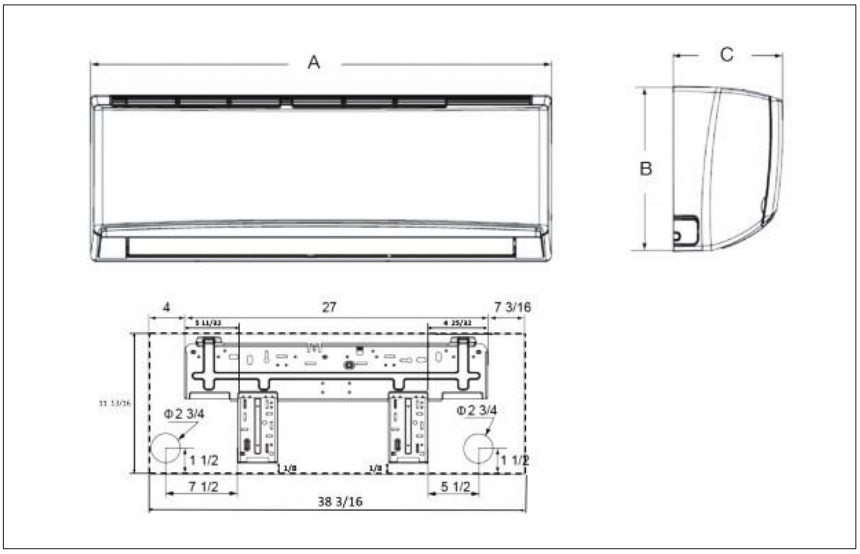
1. Apply the value in the brackets to achieve best performance
2. Wall height on air outlet side ≤ 50inch

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DIMENSIONAL SPECIFICATIONS: TW09HQ3D6D

INDOOR UNIT DIMENSIONS

Model No: TW09HQ3D6DI



Unit: inch

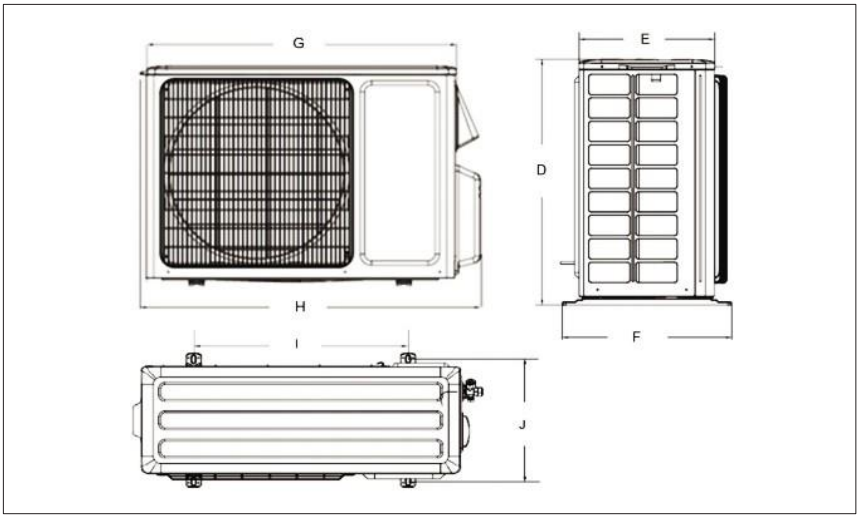
Dimensions	
A	39 1/2
B	12
C	8 7/8

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: TW09HQ3D6DO



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	1/2-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.