

TOSOT

Submittal Data: TW09HQ3D6D 9,000 BTU/H Wall Mounted Heat- Pump System

Job Name _____ Location _____ Date _____

Purchaser _____ Engineer _____

Submitted To _____ For Reference Approval Construction

Unit Designation _____ Schedule No. _____

GENERAL FEATURES

- Variable Speed (Inverter) Two-Stage Compressor
- Low Ambient Heating (down to -22° F)
- WIFI Controls
- 7 Indoor Fan Speeds
- 4 Way Airflow Operation
- Wireless Remote with LCD Display
- Copper Tube/Aluminum Fins w/ Acrylic Resin / Anti-Corrosion Coating on both ID and OD units
- I-FEEL Function
- 5 year Limited Parts Warranty, 7year limited compressor warranty



System Ratings

Indoor Unit Data

Cooling	
Rated Capacity	9,000 BTU/H
Capacity Range	1,535-12,966 BTU/H
Power Input (Max)	2,638 W
SEER	38.0
EER	16.5

Fan Motor	Type	Cross-flow
	Output Power	60 W
	FLA	0.09 A
Airflow	(Low/High)	206/424 CFM
Air Throw	(Max)	29.5 ft
Sound Level		
	Cooling (Low/High)	19/45 dB(A)
	Heating (Low/High)	19/45 dB(A)
Dehumidification		1.7 pt/hr

Heating at 47° F	
Rated Capacity	9,000 BTU/H
Capacity Range	2,388-13,648 BTU/H
Power Input (Max)	2,638 W
HSPF	15.0
COP	4.47

Outdoor Unit Data

Heating at 17° F	
Rated Capacity	5,600 BTU/H

Compressor	Type	DC Inverter Driven 2-Stage Rotary
	RLA	6.9 A
Fan Motor	Output Power	30 W
	RLA	0.09 A
Sound Level		53 dB(A)

Operating Range		
Cooling	(Max)	129°F (54°C)
	(Min)	0°F (-18°C)
Heating	(Max)	75°F (24°C)
	(Min)	-22°F (-30°C)

Refrigerant Piping Data	
Gas Pipe Size (OD)	1/2-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	R410A/50.4 oz
Additional Charge	0.2 oz/ft
Pre-Charge Length	25-ft
Max Refrigerant Pipe Length	49-ft
Min Refrigerant Pipe Length	10-ft
Min Refrigerant Pipe Height Difference	33-ft

Power Supply	
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
Voltage Range	187 - 253 V
Main Power Wire Size	14-2 AWG
Interconnecting Cable Wire Size	14-4 AWG
MCA	9 A
MOCP/Breaker Size	15 A



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 Interface Capable	YES
Indoor Fan Type	Crossflow
Multi Fan Speeds	7 Speeds
Indoor Unit Display	YES
Advance Filter	Optional (see Filter Kits)
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 - 180°(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
Fan Speed Control (7 speeds)	YES
I Feel Function	YES
Privacy 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
Display On/Off Control	YES
Freeze Guard Mode	YES
Power Failure Mode	YES

COOLING PERFORMANCE (BtuH)*

Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures					
	68°F DB		73°F DB		80°F DB	
	57°F FWB		61°F FWB		67°F FWB	
	TC	SHC	TC	SHC	TC	SHC
0°F	8175	6540	8428	6742	8871	7097
5°F	8804	7043	9076	7261	9554	7643
14°F	10061	8049	10372	8298	10918	8735
23°F	10690	8552	11021	8817	11601	9281
32°F	11319	9055	11669	9335	12283	9827
41°F	11948	9558	12317	9854	12966	10372
50°F	12451	9961	12836	10269	13512	10809
59°F	12721	10177	13115	10492	13805	11044
68°F	12828	10263	13225	10580	13921	11137
77°F	12765	10212	13160	10528	13853	11082
86°F	12702	10162	13095	10476	13784	11028
95°F	12577	10061	12966	10372	13648	10918
104°F	12074	9659	12447	9958	13102	10482
113°F	11696	9357	12058	9646	12693	10154
122°F	11516	9213	11872	9498	12497	9998
129°F	10313	8250	10632	8505	11191	8953

HEATING PERFORMANCE (BtuH)*

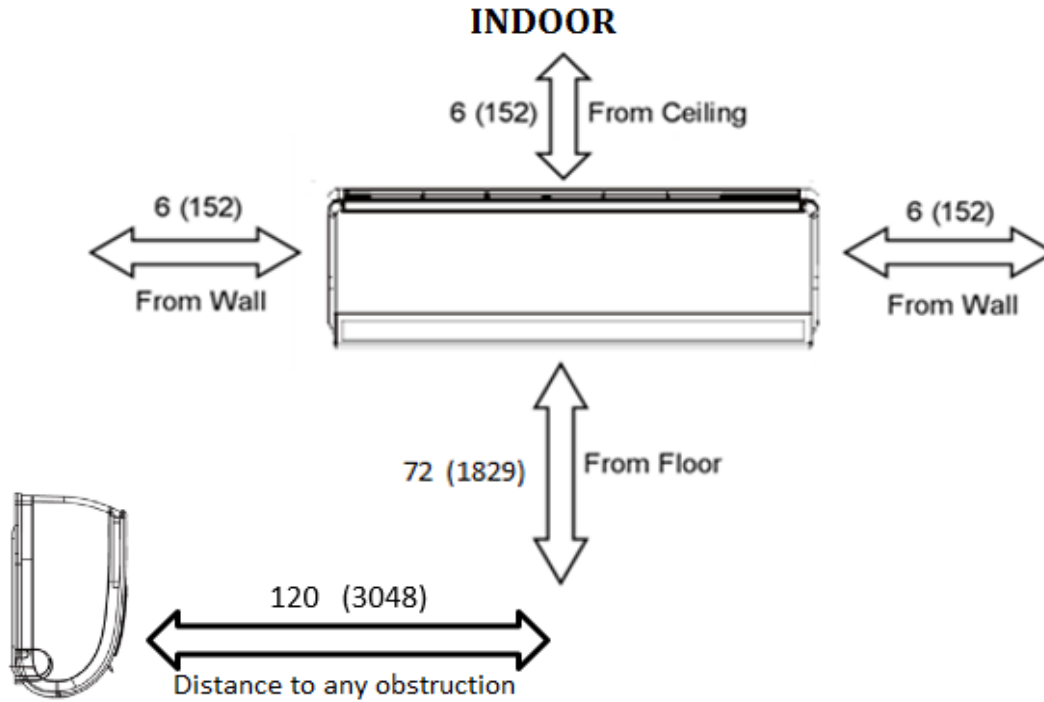
Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures					
	68°F DB		73°F DB		80°F DB	
	57°F FWB		61°F FWB		67°F FWB	
	TC	SHC	TC	SHC	TC	SHC
-22°F	8270		8166		8121	
-13°F	9253		9150		9104	
-4°F	11850		11747		11701	
0°F	11940		11836		11790	
6°F	12210		12106		12061	
10°F	12455		12352		12306	
16°F	12570		12466		12420	
19°F	13552		13448		13402	
24°F	13630		13526		13480	
32°F	13700		13596		13550	
41°F	13970		13866		13820	
43°F	14470		14366		14320	
47°F	13798		13694		13648	
53°F	13769		13665		13620	
59°F	13530		13426		13380	
64°F	13502		13398		13352	
70°F	12354		12250		12204	
75°F	12255		12152		12106	
78°F	11919		11815		11770	

* Maximum system capacity

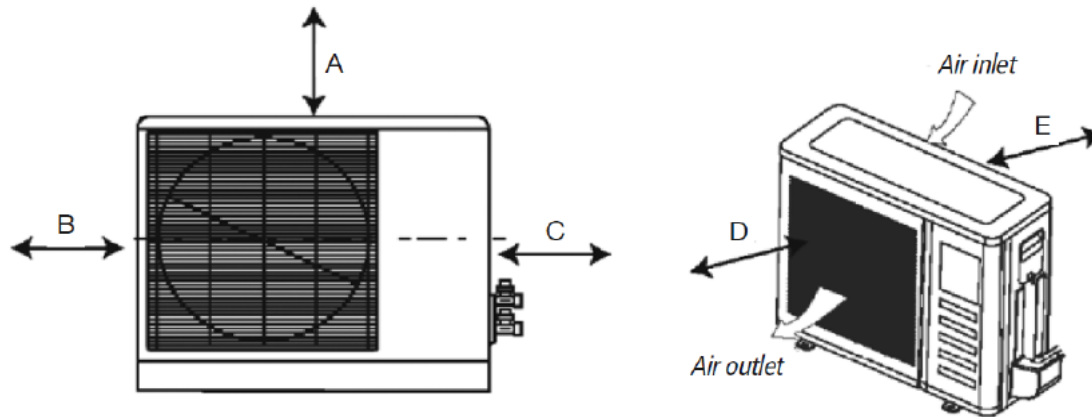
TC- Total Capacity (BtuH)
 SHC- Sensible Capacity (BtuH)

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



Minimum Outdoor Clearances



Outdoor Unit	Minimum Distances in (mm)
A	20 (500)
B	12 (305)
C	20 (500)
D	80 (2032)
E	12 (305)

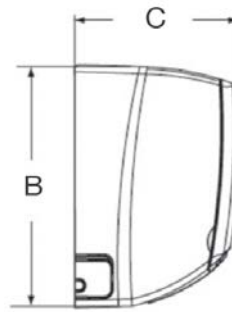
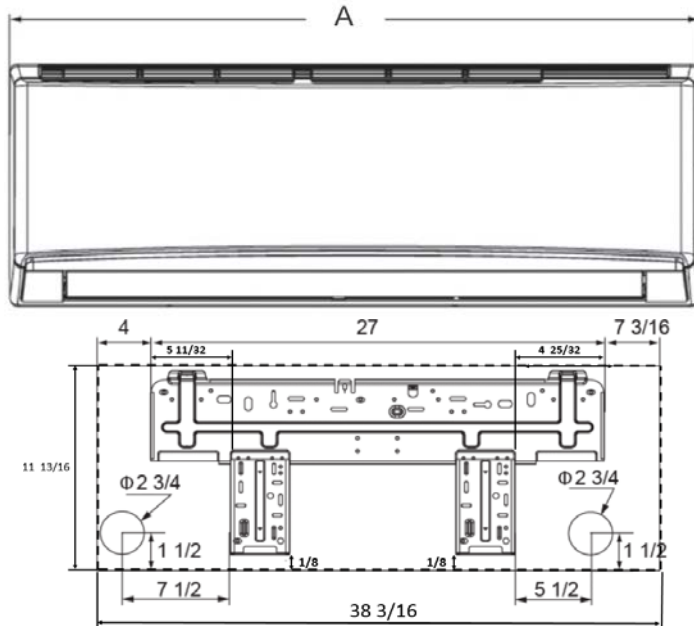
DIMENSIONAL SPECIFICATIONS

TW09HQ3D6D

INDOOR UNIT DIMENSIONS

Units: inch

Model No: TW09HQ3D6DI



Dimensions	
A	38.2
B	11.8
C	8.9

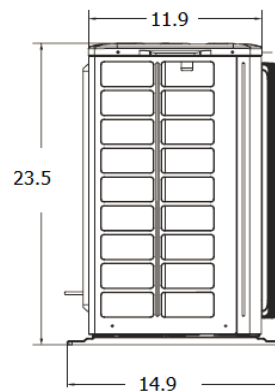
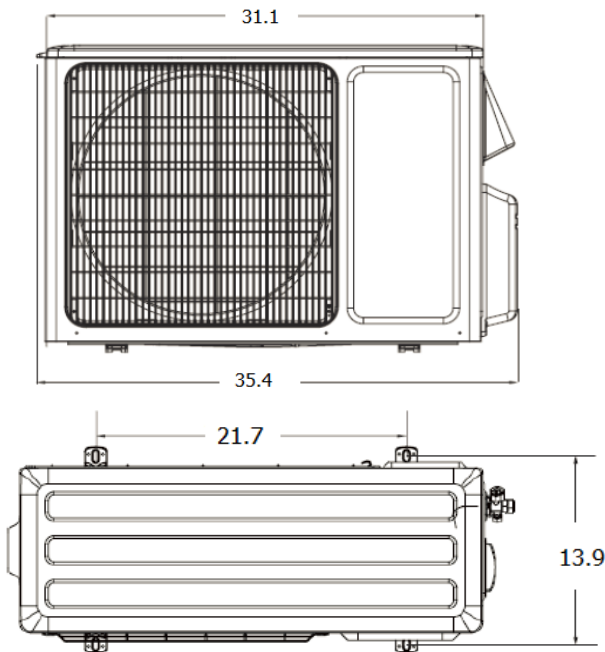
Weight (Net/Shipping) 29.8/36.4 LBS

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

Units: inch

Model No: TW09HQ3D6DO



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



Weight (Net/Shipping) 99.2/105.8 LBS

Notes:

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All rights reserved.

TOSOT

Submittal Data:		12,000 BTU/H Wall Mounted Heat- Pump System	
Job Name	Location	Date	
Purchaser	Engineer		
Submitted To	For	<input type="checkbox"/> Reference	<input type="checkbox"/> Approval <input type="checkbox"/> Construction
Unit Designation	Schedule No.		
GENERAL FEATURES <ul style="list-style-type: none"> - Variable Speed (Inverter) Two-Stage Compressor - Low Ambient Heating (down to -22° F) - WIFI Controls - 7 Indoor Fan Speeds - 4 Way Airflow Operation - Wireless Remote with LCD Display - Copper Tube/Aluminum Fins w/ Acrylic Resin Anti-Corrosion Coating on both ID and OD units - I-FEEL Function - 5 year Limited Parts Warranty, 7 year limited compressor warranty 			
System Ratings		Indoor Unit Data	
Cooling		Fan Motor	Type
Rated Capacity	12,000 BTU/H		Cross-flow
Capacity Range	2,900 -15,354 BTU/H	Output Power	60 W
Power Input (Max)	1,500 W	FLA	0.09 A
SEER	30.5	Airflow	(Low/High) 235/500 CFM
EER	15.3	Air Throw	(Max) 29.5 ft
Heating at 47° F		Sound Level	
Rated Capacity	12,200 BTU/H	Cooling (Low/High)	22/49 dB(A)
Capacity Range	3,071 -18,766 BTU/H	Heating (Low/High)	22/49 dB(A)
Power Input (Max)	1,600 W	Dehumidification	3.0 pt/hr
HSPF	14.0	Outdoor Unit Data	
COP	3.8	Compressor	Type DC Inverter Driven 2-Stage Rotary
Heating at 17° F			RLA 6.9A
Rated Capacity	8,100 BTU/H	Fan Motor	Output Power 30 W
			RLA 0.24 A
Operating Range		Sound Level	53 dB(A)
Cooling	(Max) 129°F(54°C)	Refrigerant Piping Data	
	(Min) 0°F(-18°C)	Gas Pipe Size (OD)	1/2-in
Heating	(Max) 75°F (24°C)	Liquid Pipe Size (OD)	1/4-in
	(Min) -22°F(-30°C)	Connection Method	Flared
Power Supply		Factory Charge	R410A/49.4 oz
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz	Additional Charge	0.20 oz/ft
Voltage Range	187 - 253 V	Pre-Charge Length	25-ft
Main Power Wire Size	12-2 AWG	MAX Refrigerant Pipe Length	98-ft
Interconnecting Cable Wire Size	14-4 AWG	MIN Refrigerant Pipe Length	10-ft
MCA	9 A	MAX Refrigerant Pipe Elevation	49-ft
MOCP/Breaker Size	15 A		



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 Interface Capable	YES
Indoor Fan Type	Crossflow
Multi Fan Speeds	7 Speeds
Indoor Unit Display	YES
Advance Filter	Optional (see Filter Kits)
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 - 180°(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
Fan Speed Control (7 speeds)	YES
I Feel Function	YES
Privacy 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
Display On/Off Control	YES
Freeze Guard Mode	YES
Power Failure Mode	YES

COOLING PERFORMANCE (BtuH)*

Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures					
	68°F DB		73°F DB		80°F DB	
	57°FFWB		61°FFWB		67°FFWB	
	TC	SHC	TC	SHC	TC	SHC
0°F	8274	6639	8517	6842	8975	7200
5°F	8903	7142	9165	7361	9657	7746
14°F	10160	8148	10462	8398	11022	8838
23°F	10789	8651	11110	8916	11705	9384
32°F	11418	9154	11758	9435	12387	9930
41°F	12047	9657	12407	9954	13069	10476
50°F	12612	10090	12943	10345	14666	10954
59°F	13241	10593	13591	10864	15348	11500
68°F	14498	11599	14888	11901	16713	12592
77°F	15127	12102	15536	12419	17396	13138
86°F	15756	12605	16184	12938	18078	13684
95°F	15829	12679	16300	13071	17182	13745
104°F	15200	12176	15652	12552	16500	13199
113°F	14571	11673	15004	12034	15817	12653
122°F	13314	10667	13707	10997	14452	11561
129°F	12685	10164	13059	10478	13770	11015

HEATING PERFORMANCE (BtuH)*

Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures					
	68°F DB		73°F DB		80°F DB	
	57°FFWB		61°FFWB		67°FFWB	
	TC	SHC	TC	SHC	TC	SHC
-22°F	8589		8556		8533	
-13°F	9760		9724		9698	
-4°F	12200		12155		12123	
0°F	12289		12247		12215	
6°F	13304		13259		13227	
10°F	13743		13697		13664	
16°F	14590		14542		14507	
19°F	14797		14750		14695	
24°F	15658		15606		15548	
32°F	17094		17037		16979	
41°F	18263		18200		18139	
43°F	18410		18359		18297	
47°F	17858		17808		17750	
53°F	17322		17275		17220	
59°F	16023		15980		15927	
64°F	14773		14734		14685	
70°F	13887		13853		13806	
75°F	12915		12884		12740	
78°F	12140		12112		12006	

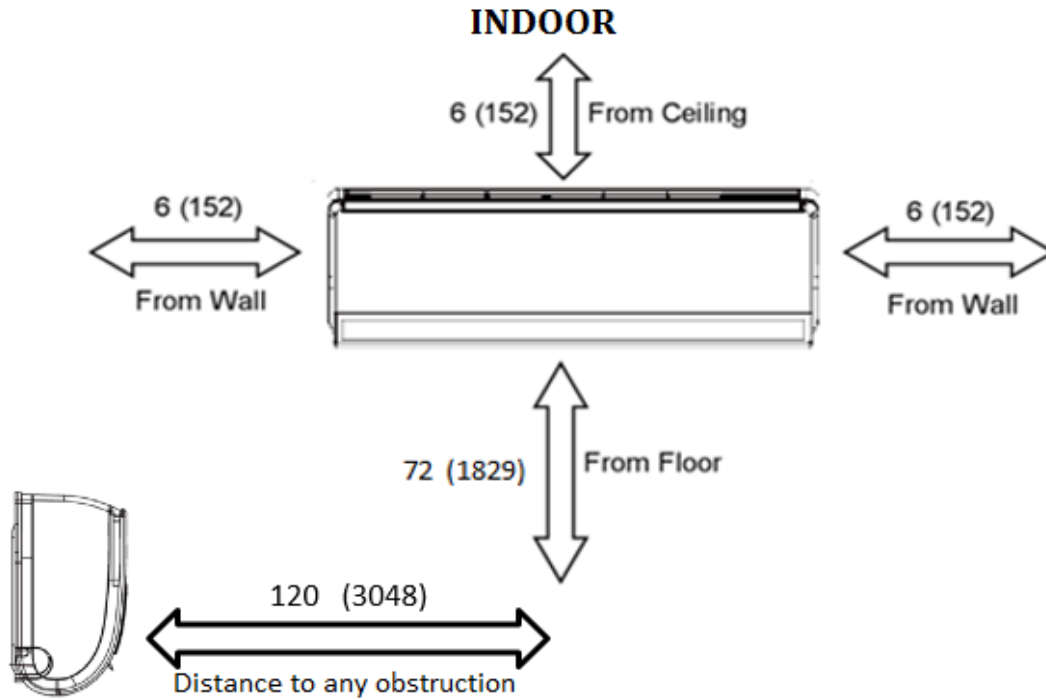
* Maximum system capacity

TC- Total Capacity (BtuH)

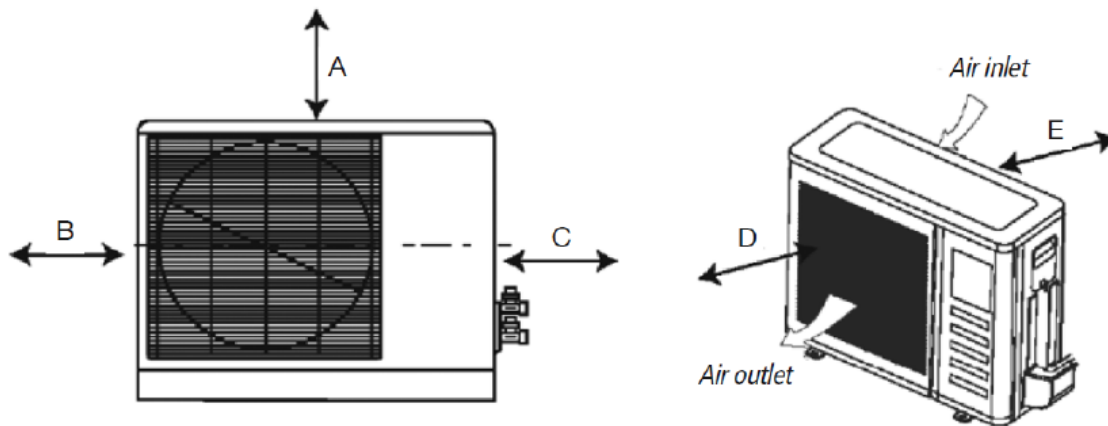
SHC- Sensible Capacity (BtuH)

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



Minimum Outdoor Clearances



Outdoor Unit	Minimum Distances in (mm)
A	20 (500)
B	12 (305)
C	20 (500)
D	80 (2032)
E	12 (305)

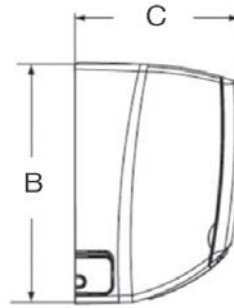
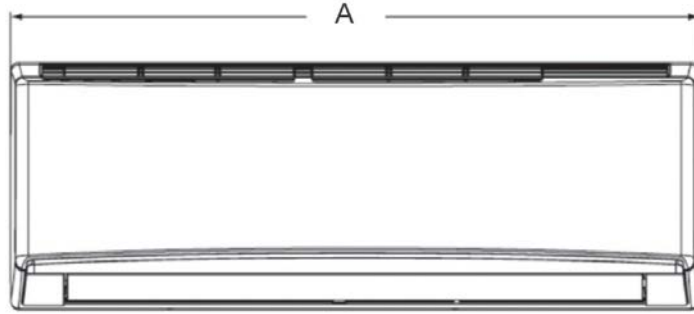
DIMENSIONAL SPECIFICATIONS

TW12HQ3D6D

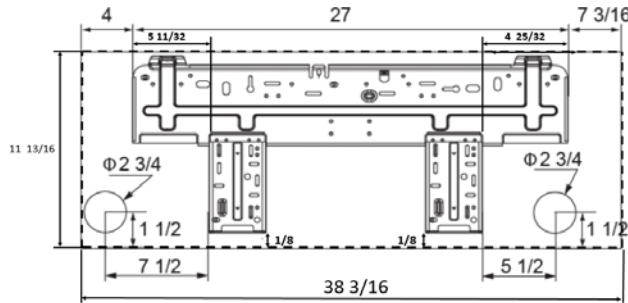
INDOOR UNIT DIMENSIONS

Units: inch

Model No: TW12HQ3D6DI



Dimensions	
A	38.2
B	11.8
C	8.9



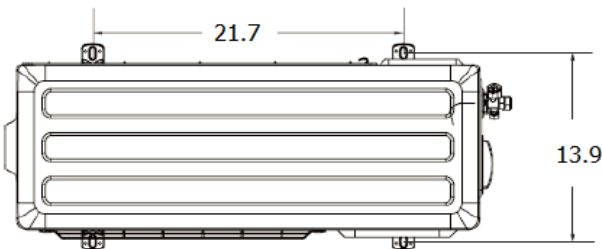
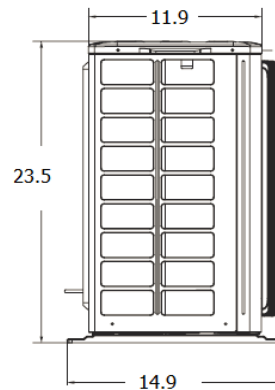
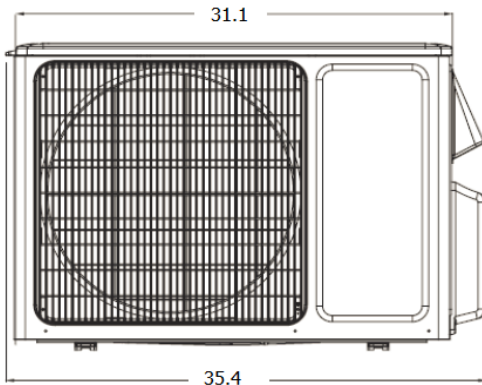
Weight (Net/Shipping) 29.8/36.4 LBS

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

Units: inch

Model No: TW12HQ3D6DO



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


Weight (Net/Shipping) 99.2/105.8 LBS

Notes:

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All rights reserved.

TOSOT

Submission Data: TW18HQ3D6D		18,000 BTU/H Wall Mounted Heat- Pump System	
Job Name		Location	Date
Purchaser		Engineer	
Submitted To		For <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction	
Unit Designation		Schedule No.	
GENERAL FEATURES <ul style="list-style-type: none"> - Variable Speed (Inverter) Two-Stage Compressor - Low Ambient Heating (down to -22° F) - Wi Fi Controls - 7 Indoor Fan Speeds - 4 Way Airflow Operation - Wireless Remote with LCD Display - Copper Tube/Aluminum Fins w/ Acrylic Resin Anti-Corrosion Coating on both ID and OD units - I-FEEL Function - 5 year Limited Parts Warranty, 7 year limited compressor warranty 			
System Ratings		Indoor Unit Data	
Cooling Rated Capacity 18,000 BTU/H Capacity Range 4,094 -21,837 BTU/H Power Input (Max) 2,500 W SEER 24.5 EER 13.5		Fan Motor Type Cross-flow Output Power 60 W FLA 0.24 A Airflow (Low/High) 353/736 CFM Air Throw (Max) 29.5 ft Sound Level Cooling (Low/High) 34/51 dB(A) Heating (Low/High) 34/51 dB(A)	
Heating at 47° F Rated Capacity 18,000 BTU/H Capacity Range 4,094 -24,566 BTU/H Power Input (Max) 2,500 W HSPF 12.0 COP 3.5		Dehumidification 3.8 pt/hr	
Heating at 17° F Rated Capacity 14,200 BTU/H		Outdoor Unit Data	
Operating Range Cooling (Max) 129°F (54°C) (Min) 0°F (-18°C) Heating (Max) 75°F (24°C) (Min) -22°F (-30°C)		Compressor Type DC Inverter Driven 2-Stage Rotary RLA 15.5 A Fan Motor Output Power 90 W RLA 0.65 A Sound Level 59 dB(A)	
Power Supply Normal Operational Voltage 208/230 V, 1 Phase, 60 Hz Voltage Range 187 - 253 V Main Power Wire Size 12-2 AWG Interconnecting Cable Wire Size 14-4 AWG MCA 22 A MOCP/Breaker Size 30 A		Refrigerant Piping Data Gas Pipe Size (OD) 5/8-in Liquid Pipe Size (OD) 1/4-in Connection Method Flared Factory Charge R410A/70.6 oz Additional Charge 0.50 oz/ft Pre-Charge Length 25-ft MAX Refrigerant Pipe Length 131-ft MIN Refrigerant Pipe Length 10-ft MAX Refrigerant Pipe Elevation 66-ft	



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 Interface Capable	YES
Indoor Fan Type	Crossflow
Multi Fan Speeds	7 Speeds
Indoor Unit Display	YES
Advance Filter	Optional (see Filter Kits)
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 - 180°(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
Fan Speed Control (7 speeds)	YES
I Feel Function	YES
Privacy 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
Display On/Off Control	YES
Freeze Guard Mode	YES
Power Failure Mode	YES

COOLING PERFORMANCE (BtuH)*

Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures					
	68°F DB		73°F DB		80°F DB	
	57°FFWB		61°FFWB		67°FFWB	
	TC	SHC	TC	SHC	TC	SHC
0°F	8866	6585	9288	7023	10609	8187
5°F	10366	8085	10788	8523	12109	9687
14°F	11804	9207	12500	9875	13834	11067
23°F	12749	9944	13851	10942	15671	12537
32°F	13249	10334	14339	11328	16276	13021
41°F	13902	10843	14927	11792	16608	13287
50°F	14873	11601	15848	12520	17182	13746
59°F	15755	12289	16905	13355	17643	14115
68°F	16239	12667	17382	13732	18241	14593
77°F	16904	13185	18104	14302	19025	15220
86°F	16449	12830	17708	13990	18645	14916
95°F	15825	12343	17269	13642	18196	14557
104°F	15503	12093	17139	13540	18083	14467
113°F	15121	11794	14707	11619	17988	14390
122°F	14958	11667	15259	12054	17133	13706
129°F	14103	10812	14404	11199	16278	12851

HEATING PERFORMANCE (BtuH)*

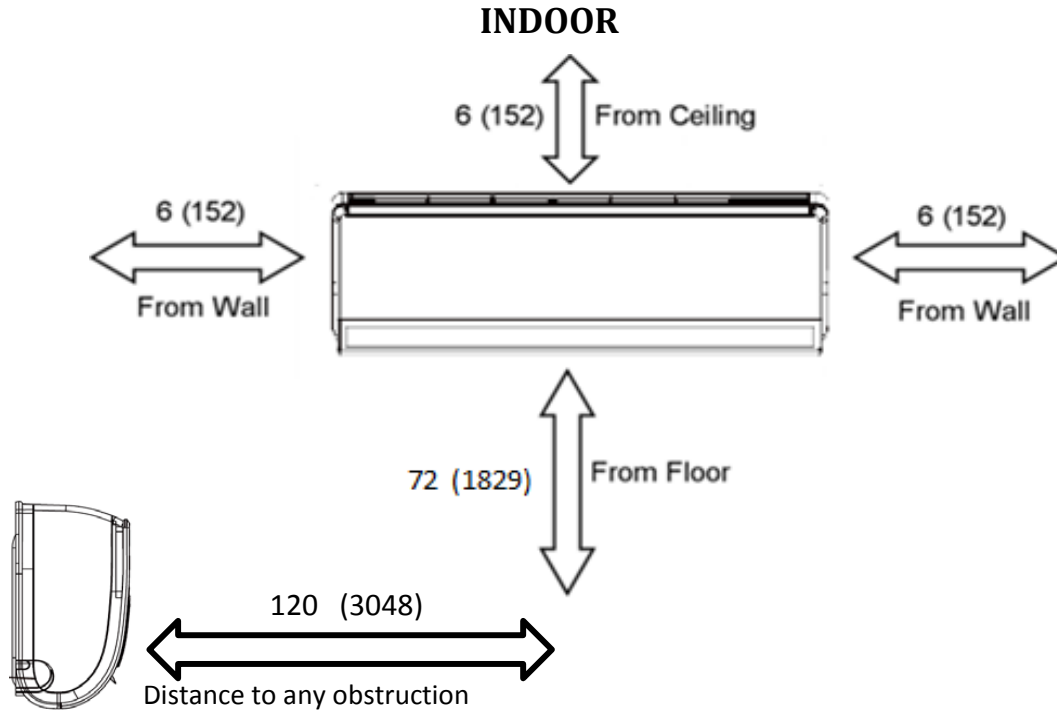
Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures					
	68°F DB		73°F DB		80°F DB	
	57°FFWB		61°FFWB		67°FFWB	
	TC	SHC	TC	SHC	TC	SHC
-22°F	10048		9645		9339	
-13°F	13482		13079		12773	
-4°F	17398		16995		16689	
0°F	18239		17836		17530	
6°F	20634		20167		19693	
10°F	21509		21007		20700	
16°F	23470		23168		22861	
19°F	24225		23930		23562	
24°F	24337		24035		23928	
32°F	24600		24298		24092	
41°F	24908		24590		22183	
43°F	25072		24770		24463	
47°F	24315		24012		23806	
53°F	23502		23199		22993	
59°F	22792		22510		22333	
64°F	21673		21470		21164	
70°F	20433		20190		19964	
75°F	19229		18977		18770	
78°F	18674		18239		17937	

* Maximum system capacity

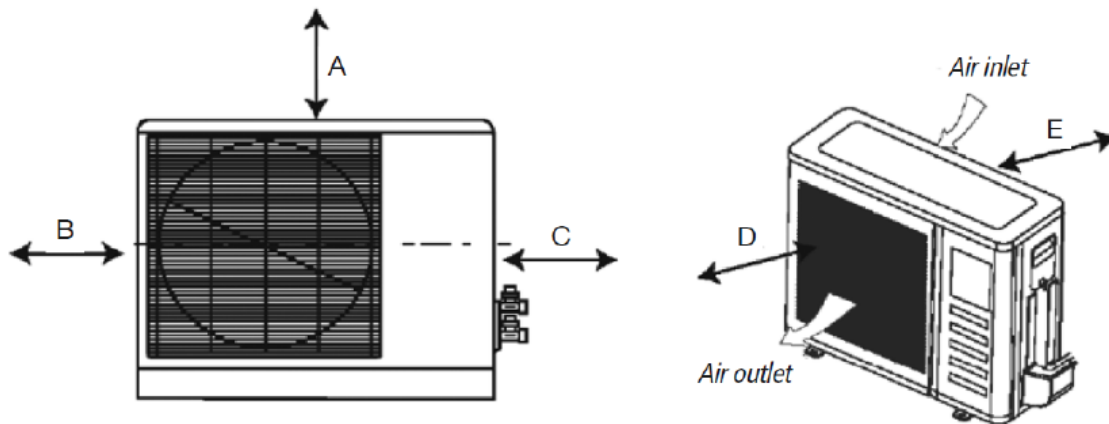
TC- Total Capacity (BtuH)
 SHC- Sensible Capacity (BtuH)

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



Minimum Outdoor Clearances



<i>Outdoor Unit</i>	<i>Minimum Distances in (mm)</i>
A	20 (500)
B	12 (305)
C	20 (500)
D	80 (2032)
E	12 (305)

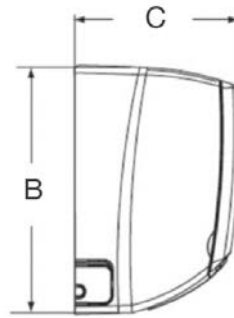
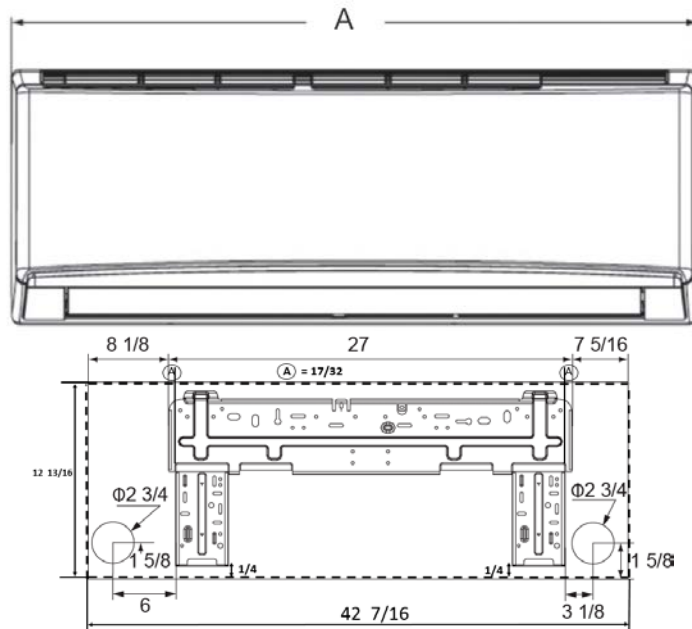
DIMENSIONAL SPECIFICATIONS

TW18HQ3D6D

INDOOR UNIT DIMENSIONS

Units: inch

Model No: TW18HQ3D6DI



Dimensions	
A	42.5
B	12.8
C	9.7

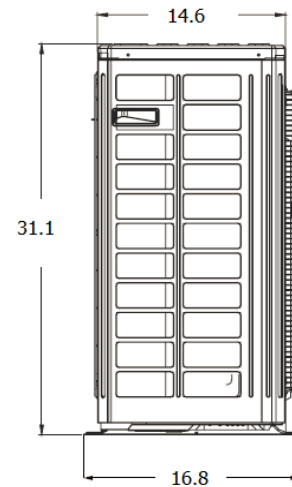
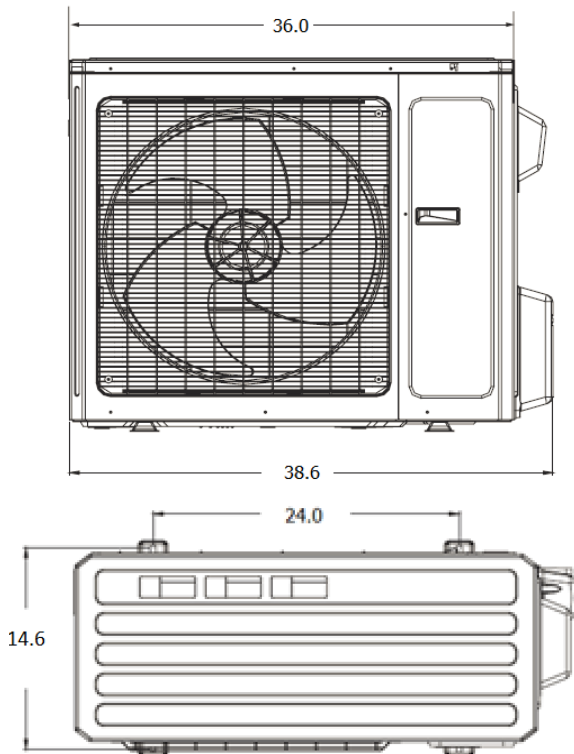
Weight (Net/Shipping) 36.4/44.1 LBS

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

Units: inch

Model No: TW18HQ3D6DO



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







Weight (Net/Shipping) 141.1/152.1 LBS

Notes

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All rights reserved.

TOSOT

Submittal Data: TW24HQ3D6D		24,000 BTU/H Wall Mounted Heat- Pump System																																						
Job Name		Location	Date																																					
Purchaser		Engineer																																						
Submitted To		For <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction																																						
Unit Designation		Schedule No.																																						
GENERAL FEATURES <ul style="list-style-type: none"> - Variable Speed (Inverter) Two-Stage Compressor - Low Ambient Heating (down to -22° F) - Wi Fi Controls - 7 Indoor Fan Speeds - 4 Way Airflow Operation - Wireless Remote with LCD Display - Copper Tube/Aluminum Fins w/ Acrylic Resin Anti-Corrosion Coating on both ID and OD units - I-FEEL Function - 5 year Limited Parts Warranty, 7year limited compressor warranty 																																								
System Ratings		Indoor Unit Data																																						
Cooling <table border="0"> <tr> <td>Rated Capacity</td> <td>22,000 BTU/H</td> </tr> <tr> <td>Capacity Range</td> <td>6,800 -30,700 BTU/H</td> </tr> <tr> <td>Power Input (Max)</td> <td>3,700 W</td> </tr> <tr> <td>SEER</td> <td>21.5</td> </tr> <tr> <td>EER</td> <td>13.0</td> </tr> </table>		Rated Capacity	22,000 BTU/H	Capacity Range	6,800 -30,700 BTU/H	Power Input (Max)	3,700 W	SEER	21.5	EER	13.0	<table border="0"> <tr> <td>Fan Motor</td> <td>Type</td> <td>Cross-flow</td> </tr> <tr> <td></td> <td>Output Power</td> <td>70 W</td> </tr> <tr> <td></td> <td>FLA</td> <td>0.38 A</td> </tr> <tr> <td>Airflow</td> <td>(Low/High)</td> <td>383/765 CFM</td> </tr> <tr> <td>Air Throw</td> <td>(Max)</td> <td>29.5 ft</td> </tr> <tr> <td>Sound Level</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Cooling (Low/High)</td> <td>34/59 dB(A)</td> </tr> <tr> <td></td> <td>Heating (Low/High)</td> <td>34/59 dB(A)</td> </tr> <tr> <td>Dehumidification</td> <td></td> <td>4.23 pt/hr</td> </tr> </table>		Fan Motor	Type	Cross-flow		Output Power	70 W		FLA	0.38 A	Airflow	(Low/High)	383/765 CFM	Air Throw	(Max)	29.5 ft	Sound Level				Cooling (Low/High)	34/59 dB(A)		Heating (Low/High)	34/59 dB(A)	Dehumidification		4.23 pt/hr
Rated Capacity	22,000 BTU/H																																							
Capacity Range	6,800 -30,700 BTU/H																																							
Power Input (Max)	3,700 W																																							
SEER	21.5																																							
EER	13.0																																							
Fan Motor	Type	Cross-flow																																						
	Output Power	70 W																																						
	FLA	0.38 A																																						
Airflow	(Low/High)	383/765 CFM																																						
Air Throw	(Max)	29.5 ft																																						
Sound Level																																								
	Cooling (Low/High)	34/59 dB(A)																																						
	Heating (Low/High)	34/59 dB(A)																																						
Dehumidification		4.23 pt/hr																																						
Heating at 47° F <table border="0"> <tr> <td>Rated Capacity</td> <td>24,000 BTU/H</td> </tr> <tr> <td>Capacity Range</td> <td>6,800 -32,000 BTU/H</td> </tr> <tr> <td>Power Input (Max)</td> <td>3,700 W</td> </tr> <tr> <td>HSPF</td> <td>12.0</td> </tr> <tr> <td>COP</td> <td>3.5</td> </tr> </table>		Rated Capacity	24,000 BTU/H	Capacity Range	6,800 -32,000 BTU/H	Power Input (Max)	3,700 W	HSPF	12.0	COP	3.5	Outdoor Unit Data <table border="0"> <tr> <td>Compressor</td> <td>Type</td> <td>DC Inverter Driven 2-Stage Rotary</td> </tr> <tr> <td></td> <td>RLA</td> <td>16 A</td> </tr> <tr> <td>Fan Motor</td> <td>Output Power</td> <td>90 W</td> </tr> <tr> <td></td> <td>RLA</td> <td>0.65 A</td> </tr> <tr> <td>Sound Level</td> <td></td> <td>59 dB(A)</td> </tr> </table>		Compressor	Type	DC Inverter Driven 2-Stage Rotary		RLA	16 A	Fan Motor	Output Power	90 W		RLA	0.65 A	Sound Level		59 dB(A)												
Rated Capacity	24,000 BTU/H																																							
Capacity Range	6,800 -32,000 BTU/H																																							
Power Input (Max)	3,700 W																																							
HSPF	12.0																																							
COP	3.5																																							
Compressor	Type	DC Inverter Driven 2-Stage Rotary																																						
	RLA	16 A																																						
Fan Motor	Output Power	90 W																																						
	RLA	0.65 A																																						
Sound Level		59 dB(A)																																						
Heating at 17° F <table border="0"> <tr> <td>Rated Capacity</td> <td>15,500 BTU/H</td> </tr> </table>		Rated Capacity	15,500 BTU/H	Refrigerant Piping Data <table border="0"> <tr> <td>Gas Pipe Size (OD)</td> <td>5/8-in</td> </tr> <tr> <td>Liquid Pipe Size (OD)</td> <td>1/4-in</td> </tr> <tr> <td>Connection Method</td> <td>Flared</td> </tr> <tr> <td>Factory Charge</td> <td>R410A/81.1 oz</td> </tr> <tr> <td>Additional Charge</td> <td>0.50 oz/ft</td> </tr> <tr> <td>Pre-Charge Length</td> <td>25-ft</td> </tr> <tr> <td>MAX Refrigerant Pipe Length</td> <td>164-ft</td> </tr> <tr> <td>MIN Refrigerant Pipe Length</td> <td>10-ft</td> </tr> <tr> <td>MAX Refrigerant Pipe Elevation</td> <td>98.4-ft</td> </tr> </table>		Gas Pipe Size (OD)	5/8-in	Liquid Pipe Size (OD)	1/4-in	Connection Method	Flared	Factory Charge	R410A/81.1 oz	Additional Charge	0.50 oz/ft	Pre-Charge Length	25-ft	MAX Refrigerant Pipe Length	164-ft	MIN Refrigerant Pipe Length	10-ft	MAX Refrigerant Pipe Elevation	98.4-ft																	
Rated Capacity	15,500 BTU/H																																							
Gas Pipe Size (OD)	5/8-in																																							
Liquid Pipe Size (OD)	1/4-in																																							
Connection Method	Flared																																							
Factory Charge	R410A/81.1 oz																																							
Additional Charge	0.50 oz/ft																																							
Pre-Charge Length	25-ft																																							
MAX Refrigerant Pipe Length	164-ft																																							
MIN Refrigerant Pipe Length	10-ft																																							
MAX Refrigerant Pipe Elevation	98.4-ft																																							
Operating Range <table border="0"> <tr> <td rowspan="2">Cooling</td> <td>(Max)</td> <td>129°F (54°C)</td> </tr> <tr> <td>(Min)</td> <td>0°F (-18°C)</td> </tr> <tr> <td rowspan="2">Heating</td> <td>(Max)</td> <td>75°F (24°C)</td> </tr> <tr> <td>(Min)</td> <td>-22°F (-30°C)</td> </tr> </table>		Cooling	(Max)	129°F (54°C)	(Min)	0°F (-18°C)	Heating	(Max)	75°F (24°C)	(Min)	-22°F (-30°C)																													
Cooling	(Max)		129°F (54°C)																																					
	(Min)	0°F (-18°C)																																						
Heating	(Max)	75°F (24°C)																																						
	(Min)	-22°F (-30°C)																																						
Power Supply <table border="0"> <tr> <td>Normal Operational Voltage</td> <td>208/230 V, 1 Phase, 60 Hz</td> </tr> <tr> <td>Voltage Range</td> <td>187 - 253 V</td> </tr> <tr> <td>Main Power Wire Size</td> <td>8-2 AWG</td> </tr> <tr> <td>Interconnecting Cable Wire Size</td> <td>14-4 AWG</td> </tr> <tr> <td>MCA</td> <td>22 A</td> </tr> <tr> <td>MOCP/Breaker Size</td> <td>35 A</td> </tr> </table>		Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz	Voltage Range	187 - 253 V	Main Power Wire Size	8-2 AWG	Interconnecting Cable Wire Size	14-4 AWG	MCA	22 A	MOCP/Breaker Size	35 A																											
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz																																							
Voltage Range	187 - 253 V																																							
Main Power Wire Size	8-2 AWG																																							
Interconnecting Cable Wire Size	14-4 AWG																																							
MCA	22 A																																							
MOCP/Breaker Size	35 A																																							
																																								
																																								
																																								

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
Wi-Fi Interface Capable	YES
Indoor Fan Type	Crossflow
Multi Fan Speeds	7 Speeds
Indoor Unit Display	YES
Advance Filter	Optional (see Filter Kits)
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
Display On/Off Control	YES

COOLING PERFORMANCE (BtuH)*

Outdoor Ambient Temperature (DB) °F	Indoor Entering Air Temperatures					
	68F DB		73°F DB		80°F DB	
	57F WB		61°FWB		67°FWB	
	TC	SHC	TC	SHC	TC	SHC
0°F	13521	10599	14165	11104	15894	12459
5°F	14036	11008	14828	11625	16735	13125
14°F	14395	11291	15202	11922	17373	13623
23°F	15378	12063	16449	12902	18847	14782
32°F	18649	14626	19947	15643	21846	17129
41°F	21120	16565	22440	17597	23980	18808
50°F	20871	16371	22198	17411	23760	18637
59°F	20357	15963	21677	17003	23540	18466
68°F	19844	15562	21164	16602	23100	18117
77°F	19338	15168	20651	16193	22660	17775
86°F	18692	14661	19998	15682	21896	17176
95°F	18781	14730	20093	15755	22000	17255
104°F	17769	13936	19035	14930	21054	16515
113°F	16450	12902	17652	13846	19724	15473
122°F	14879	11668	16001	12544	17925	14055
129°F	13775	10803	14693	11522	16530	12967

HEATING PERFORMANCE (BtuH)*

Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures					
	68°F DB		73°F DB		80°F DB	
	57°FWB		61°FWB		67°FWB	
	TC	SHC	TC	SHC	TC	SHC
-22°F	14194		13955		13699	
-13°F	18752		18437		18098	
-4°F	23362		22969		22547	
0°F	24013		23614		23161	
6°F	24233		23826		23379	
10°F	24726		24313		23851	
16°F	25215		24795		24313	
19°F	25697		25277		24782	
24°F	25909		25517		25080	
32°F	26103		25750		25356	
41°F	27424		27102		26723	
43°F	27972		27642		27276	
47°F	29278		28771		28191	
53°F	29568		29052		28472	
59°F	30248		29713		29115	
64°F	30891		30347		29740	
70°F	31470		30927		30302	
75°F	31914		31353		30728	
78°F	32360		31790		31156	

* Maximum system capacity

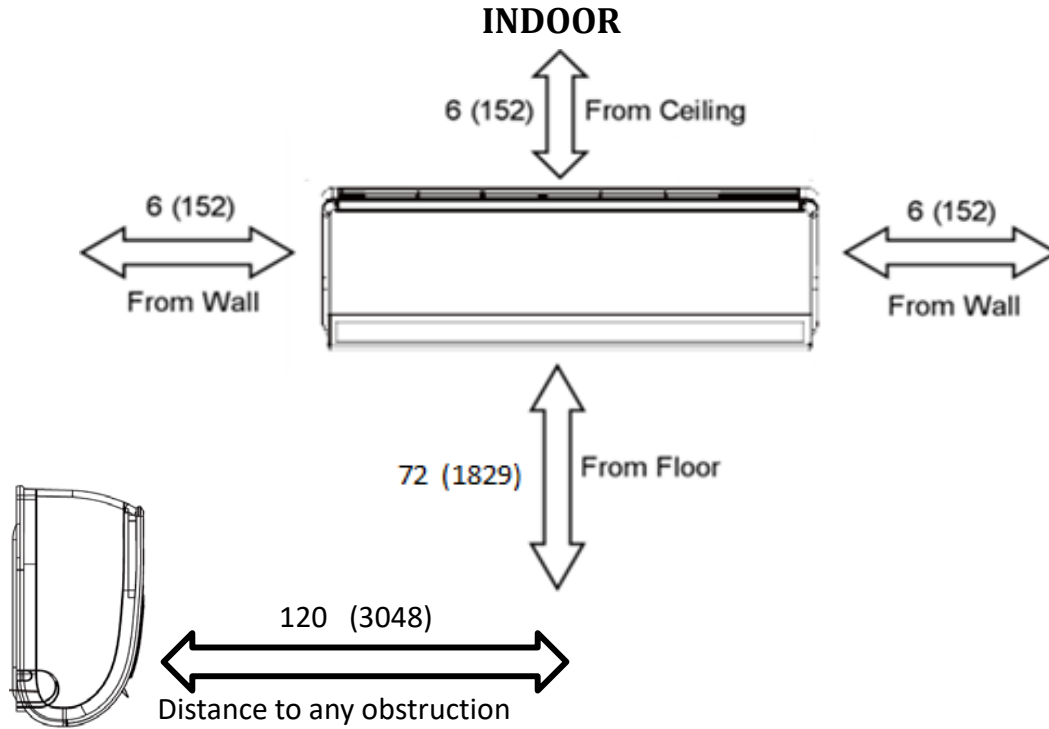
TC- Total Capacity (BtuH)

SHC- Sensible Capacity (BtuH)

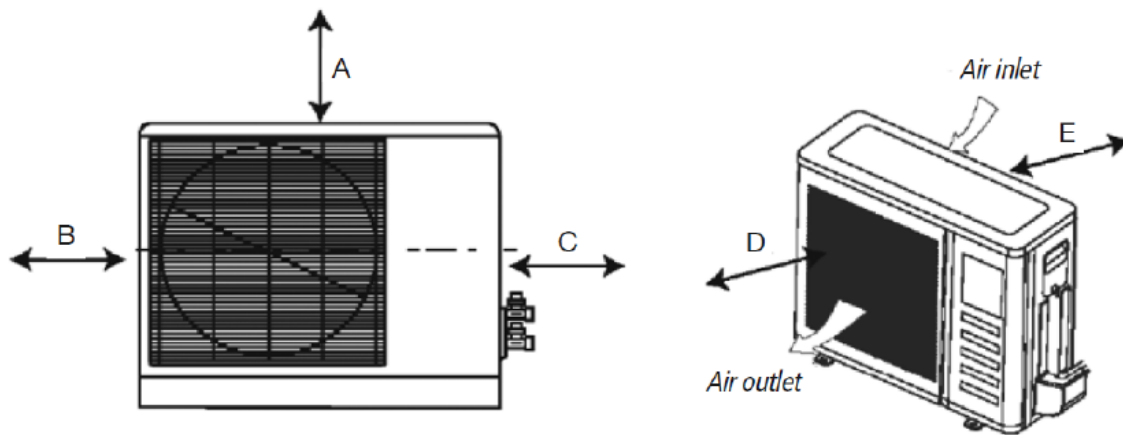
DIMENSIONAL SPECIFICATIONS

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



Minimum Outdoor Clearances



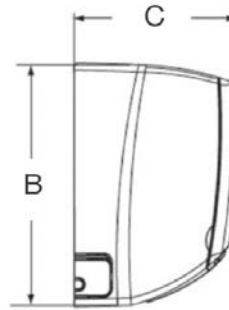
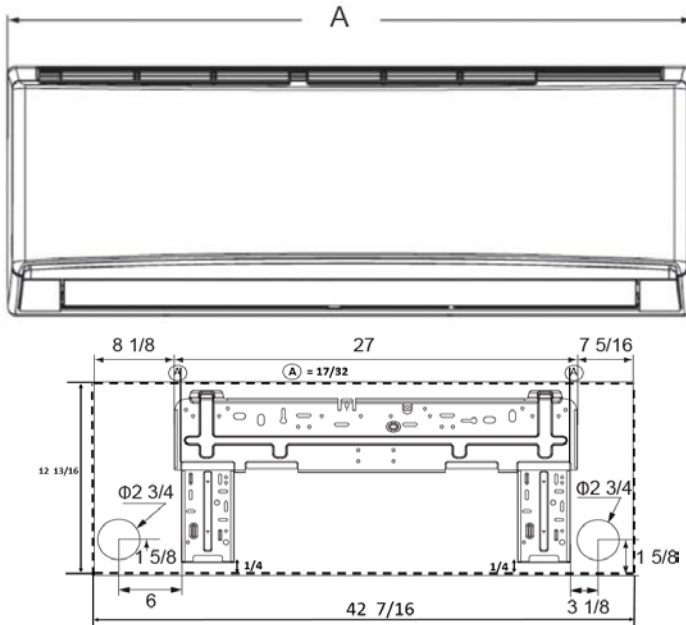
<i>Outdoor Unit</i>	<i>Minimum Distances in (mm)</i>
A	20 (500)
B	12 (305)
C	20 (500)
D	80 (2032)
E	12 (305)

DIMENSIONAL SPECIFICATIONS

INDOOR UNIT DIMENSIONS

Model No: TW24HQ3D6DI

Units: inch



Dimensions	
A	42.5
B	12.8
C	9.7

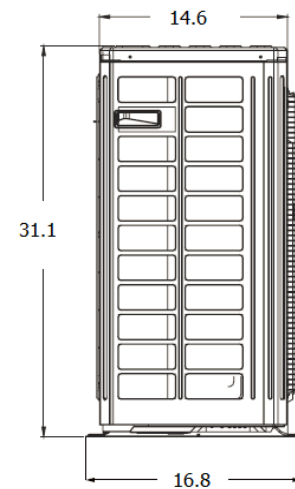
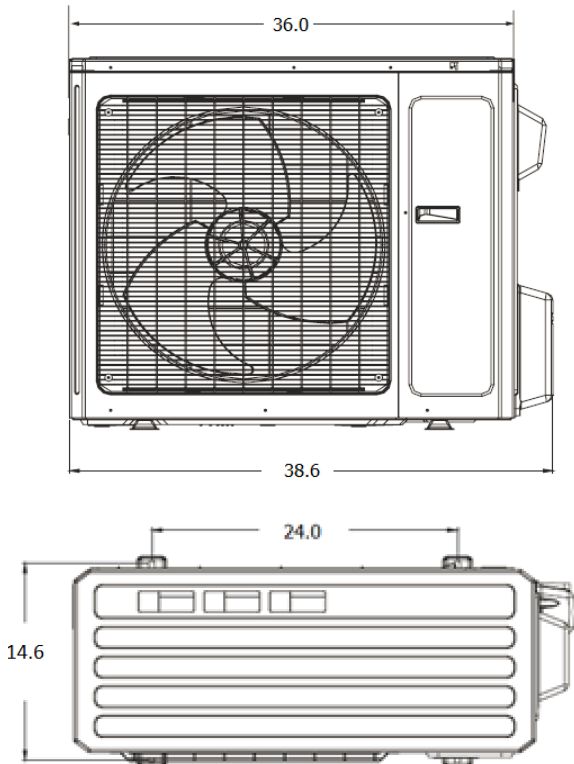
Weight (Net/Shipping) 35.3/41.9 LBS

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

Units: inch



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

Weight (Net/Shipping) 147.7/158.8 LBS

Notes

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All rights reserved.