



SAPPHIRE



SINGLE ZONE WALL MOUNTED HEAT PUMP SYSTEM

TW36HQ3B2D		
Indoor Unit		TW36HQ3B2DI
Outdoor Unit		TW36HQ3B2DO
Performance		
Cooling Rated Capacity	Btu/h	33,000
Cooling Cap. Range Min-Max	Btu/h	8,800~40,900
SEER/EER		23.0/10.25
Heating Rated Capacity(47°F)	Btu/h	34,600
Heating Rated Capacity(17°F)	Btu/h	34,600
Heating Cap. Range Min-Max	Btu/h	16,700~49,400
HSPF/COP		10.5/3.17
Electrical		
Voltage, Phase, Cycle	V-Ph-Hz	208/230-1-60
Voltage Range	V	187~253
MCA	A	32.0
MOP	A	50
Compressor RLA	A	24
Fan Motor FLA	A	0.73
Cooling Power Input	W	3,220
Heating Power Input	W	3,200
Piping		
Pipe Length Min-Max	ft	10~165
Piping Lift	ft	100
Liquid Line	in	1/4
Vapor Line	in	5/8
Connection Type		Flare



Operating Range		
Cooling Outdoor DB	°F	0~109
Heating Outdoor DB	°F	-31~75
System Data		
Compressor Type		DC Inverter Driven 2 Stage Rotary
Refrigerant Type		R410A
Pre-Charge	oz	123.5
Pre-Charge Length	ft	25
Additional Charge	oz/ft	0.30
Refrigerant Control		EXV
ODU Sound Pressure	dB(A)	63
IDU Sound Pressure (Cooling Low/High)	dB(A)	36/55
IDU Sound Pressure (Heating Low/High)	dB(A)	36/55
IDU Airflow (Cooling Low/High)	cfm	441/824
IDU Airflow (Heating Low/High)	cfm	441/824
Dehumidification	pts/hr	7.40



Job Name:		Date:	
Reference #:			
Signature:			

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Features	
Inverter Type	G10
Ultra Low Frequency Torque Control	Standard
Power Factor Correction	Standard
Compressor Type	High Eff. Rotary
Refrigerant Type	R410A
Basepan With Electric Heater	Standard
Compressor With Electric Heater	Standard
Indoor & Outdoor Fin Coating	Acrylic Resin/ Anti-Corrosion
Intelligent Defrosting	Standard
Intelligent Preheating	Standard
Low Voltage Startup	Standard
Memory/Power Failure Recovery	Standard
Self Diagnosis	Standard
Wired Controller Interface	Standard
Wi-Fi Interface - Standard	Standard
Indoor Fan Type	Crossflow
Multi Fan Speeds	4 Speeds
Indoor Unit Display	Standard
Indoor Air Quality Filter	Optional
Auxiliary Electrical Heater	Not Available
Ventilation (Outdoor Air)	Not Available

Remote Controller Functions	
Auto Mode	Standard
Auto Fan	Standard
Auto Swing - Horizontal	Not Available
Auto Swing - Vertical	Standard
Clock on Remote Controller	Standard
Dry Mode	Standard
Dry Anti-Mildew (X-Fan) Mode	Standard
Energy Saving Mode	Standard
Dirty Filter Alert	Not Available
I Feel Function	Not Available
Lock on Remote Controller	Standard
Quiet Mode	Not Available
Room Temperature Display	Not Available
Sleep Mode	Standard
4 Sleep Modes Options	Standard
Timer Mode	Standard
Turbo Mode	Standard
Display On/Off Control	Standard
Freeze Guard Mode	Standard



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COOLING PERFORMANCE*						
Outdoor Ambient DB	Indoor Entering Air Temperatures					
	68°F DB		73°F DB		80°F DB	
	57°F WB		61°F WB		67°F WB	
	TC	SHC	TC	SHC	TC	SHC
0°F	11,220	8,135	13,860	10,049	16,500	11,963
5°F	12,870	9,395	15,510	11,322	18,150	13,250
14°F	14,520	10,672	17,160	12,613	19,800	14,553
23°F	15,180	11,233	17,820	13,187	20,460	15,140
32°F	15,840	11,801	18,480	13,768	21,120	15,734
41°F	17,820	13,365	20,460	15,345	23,100	17,325
50°F	19,800	14,949	22,440	16,942	25,080	18,935
59°F	21,120	16,051	23,760	18,058	26,400	20,064
68°F	22,110	16,914	24,750	18,934	27,390	20,953
77°F	27,720	21,344	30,360	23,377	33,000	25,410
86°F	30,690	23,785	33,330	25,831	35,970	27,877
95°F	27,720	21,622	30,360	23,681	33,000	25,740
104°F	26,070	20,465	28,710	22,537	31,350	24,610
113°F	22,770	17,988	25,410	20,074	28,050	22,160
HEATING PERFORMANCE*						
Outdoor Ambient DB	Indoor Ambient Temperature					
	68°F DB		73°F DB		80°F DB	
	57°F WB		61°F WB		67°F WB	
	TC	TC	TC	TC	TC	TC
-31°F	21,279	20,760	20,241	20,241	20,241	20,241
-22°F	24,739	24,220	23,701	23,701	23,701	23,701
-13°F	28,199	27,680	27,161	27,161	27,161	27,161
-4°F	31,659	31,140	30,621	30,621	30,621	30,621
0°F	33,389	32,870	32,351	32,351	32,351	32,351
6°F	35,119	34,600	34,081	34,081	34,081	34,081
10°F	35,119	34,600	34,081	34,081	34,081	34,081
17°F	35,119	34,600	34,081	34,081	34,081	34,081
19°F	35,119	34,600	34,081	34,081	34,081	34,081
24°F	35,119	34,600	34,081	34,081	34,081	34,081
32°F	35,119	34,600	34,081	34,081	34,081	34,081
41°F	35,119	34,600	34,081	34,081	34,081	34,081
43°F	35,811	35,292	34,773	34,773	34,773	34,773
47°F	35,036	34,600	34,303	34,303	34,303	34,303
53°F	33,864	33,429	33,131	33,131	33,131	33,131
59°F	32,842	32,435	32,181	32,181	32,181	32,181
64°F	31,229	30,938	30,496	30,496	30,496	30,496
70°F	29,442	29,093	28,767	28,767	28,767	28,767
75°F	27,708	27,344	27,047	27,047	27,047	27,047
78°F	26,908	26,282	25,846	25,846	25,846	25,846

* Maximum System Capacity

TC - Total Capacity(Btu/h)

SHC - Sensible Capacity(Btu/h)

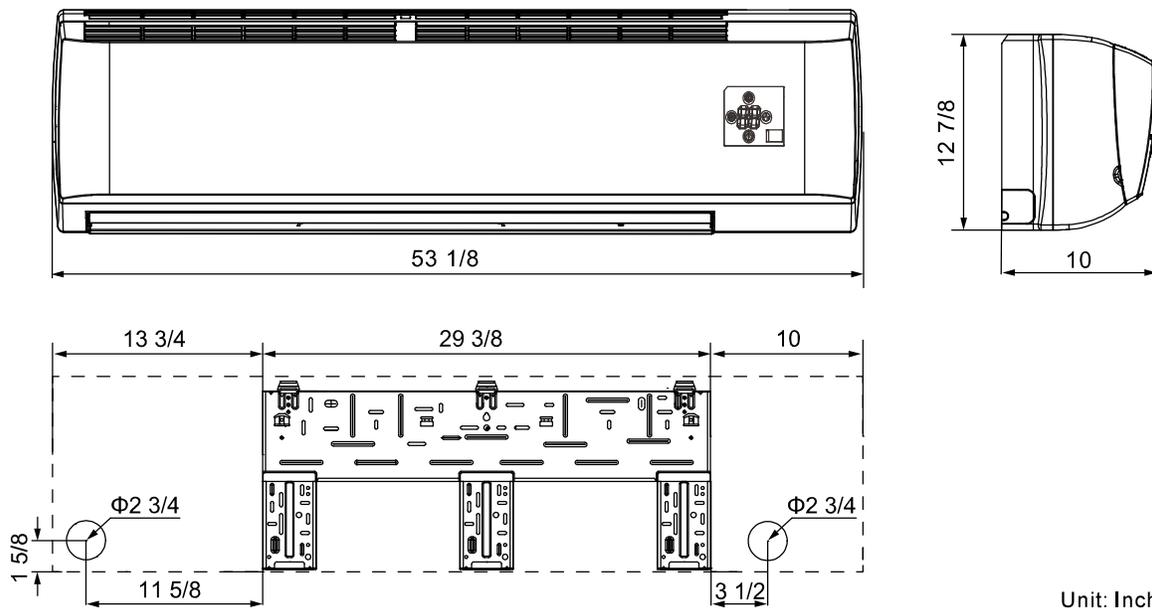


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SINGLE ZONE WALL MOUNTED HEAT PUMP SYSTEM

INDOOR UNIT DIMENSIONS



Unit: Inch

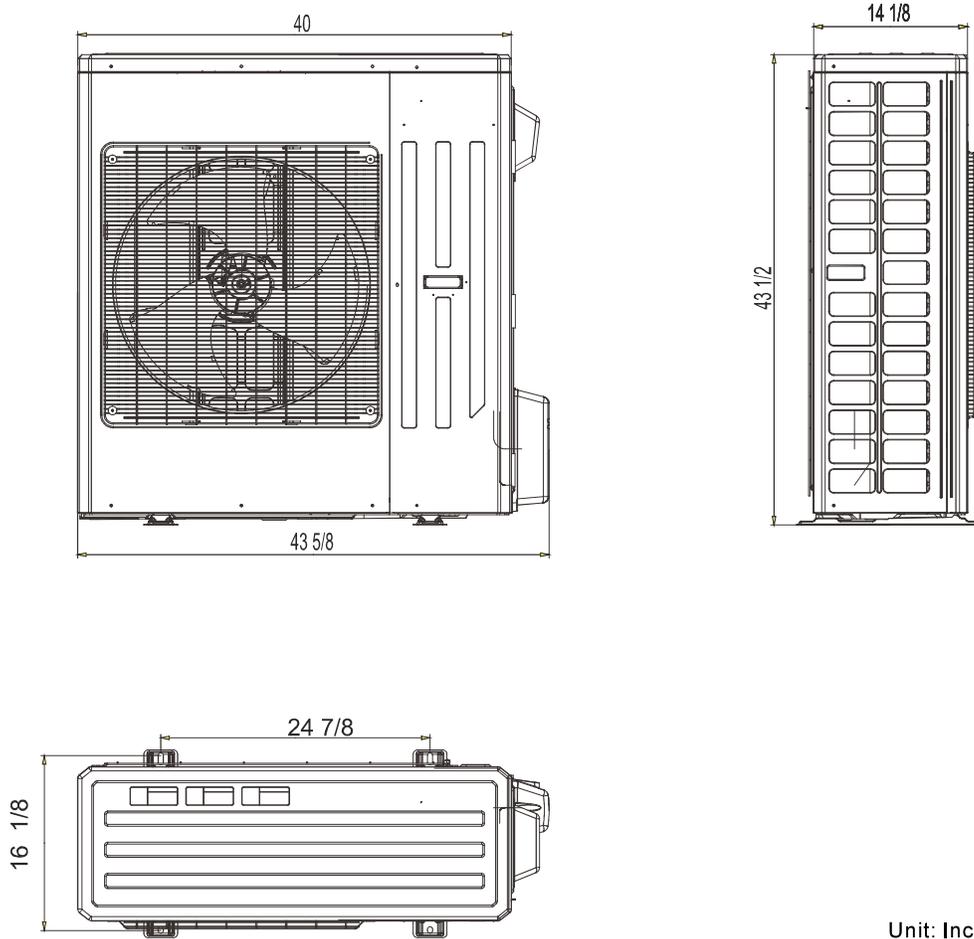


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TOSOT

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OUTDOOR UNIT DIMENSIONS



Unit: Inch

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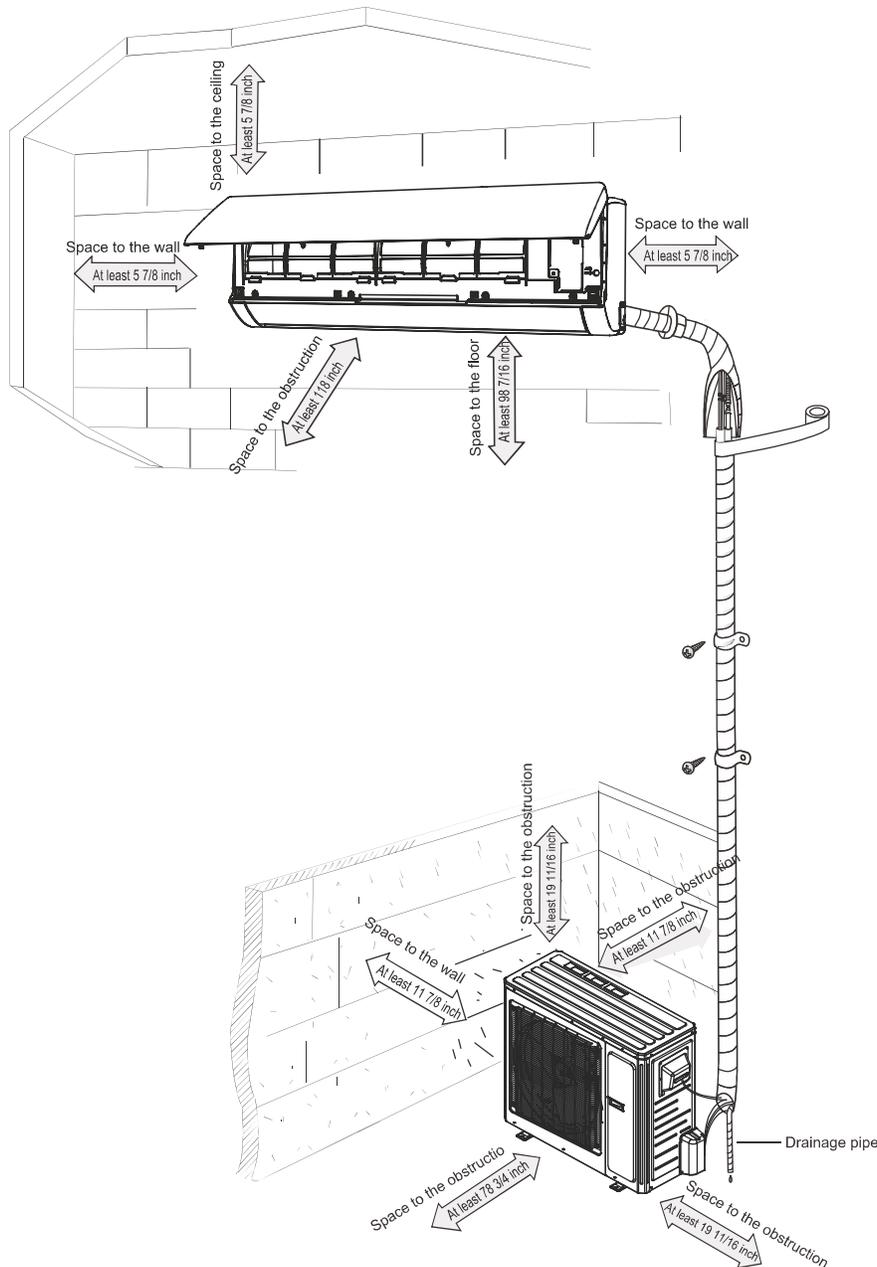


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INSTALLATION DIAGRAM



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