

Lomo23

TOSOT

MODEL: TW09HQ2A3D

Project Name:

Location:

Engineer Name:

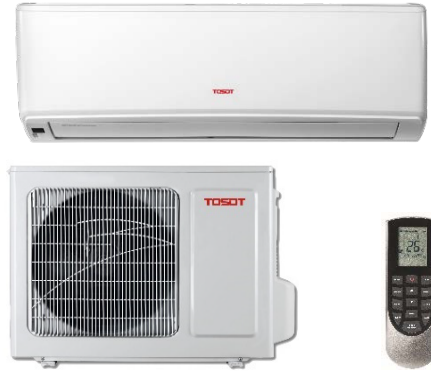
Purshaser:

Unit Designation:

Schedule No.

SubmittedTo:

Date:



General Features

- Smart 1 Hertz Inverter Technology
- Low Ambient Cooling to 5 °F
- Multiple Fan Speeds
- Memory Function
- Fan Delay Function
- Intelligent Pre-heating / Defrost

- Gold Fin Condenser
- Low Voltage Start-up
- High And Low Pressure Protection Features
- Load Protection Features
- Over-Current Protection
- Anti Freeze Protection

Unit Performance:

Cooling:	-	-
Capacity (Min Rated Max, Btu/h)	3,100-9,000-	9,600
SEER		23
EER		14.29
Heating:	-	-
Capacity (Min Rated Max, Btu/h)	1,911 -11,000-	12,000
HSPF		10.5
COP (W/W)		3.16

Compressor

Cooling Operation Ambient temp. Range	5~115 °F
Heating Operation Ambient temp. Range	-5~75 °F
Compressor Type	Swing
Compressor RLA (A)	4
Crankcase Heater	Yes

Unit Specification

Refrigerant Type	R410A
Refrigerant Charge (oz)	45.9
ODU Sound Pressure (dB(A))	53
IDU Sound Pressure (dB(A))	29 / 43
ODU Net Weight (lbs)	78
IDU Net Weight (lbs)	22
Dehumidifying (Pint/h)	1.69

Electrical Specification

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 14
MOP (A)	15
MCA (A)	9
Cooling Rated Amps (A)	5.8
Heating Rated Amps (A)	6
Compressor RLA (A)	4
Indoor Fan Motor RLA (A)	0.09
Outdoor Fan Motor RLA (A)	
Nominal Cooling Power Input (kW)	0.63
Nominal Heating Power Input (kW)	1.02

Fan

ODU / IDU Type	Axial-flow/Cross-flow
Fan Motor Output (W)	30
Motor/Drive	Direct Drive
ODU Max Air Flow Rate (CFM)	1799
IDU Air Flow Rate (CFM)	171 / 377

Piping

Liquid Line (in, OD)	1/4
Gas Line (in, OD)	3/8
Additional Refrigerant (oz./ft.)	0.215
Max Pipe Length (ft.)	49.2
Piping Length (with factory charge, ft.)	24.6
Max Elevation (ft.)	49

AHRI certification Ref #



Capacity Variation Ratio According to Temperature

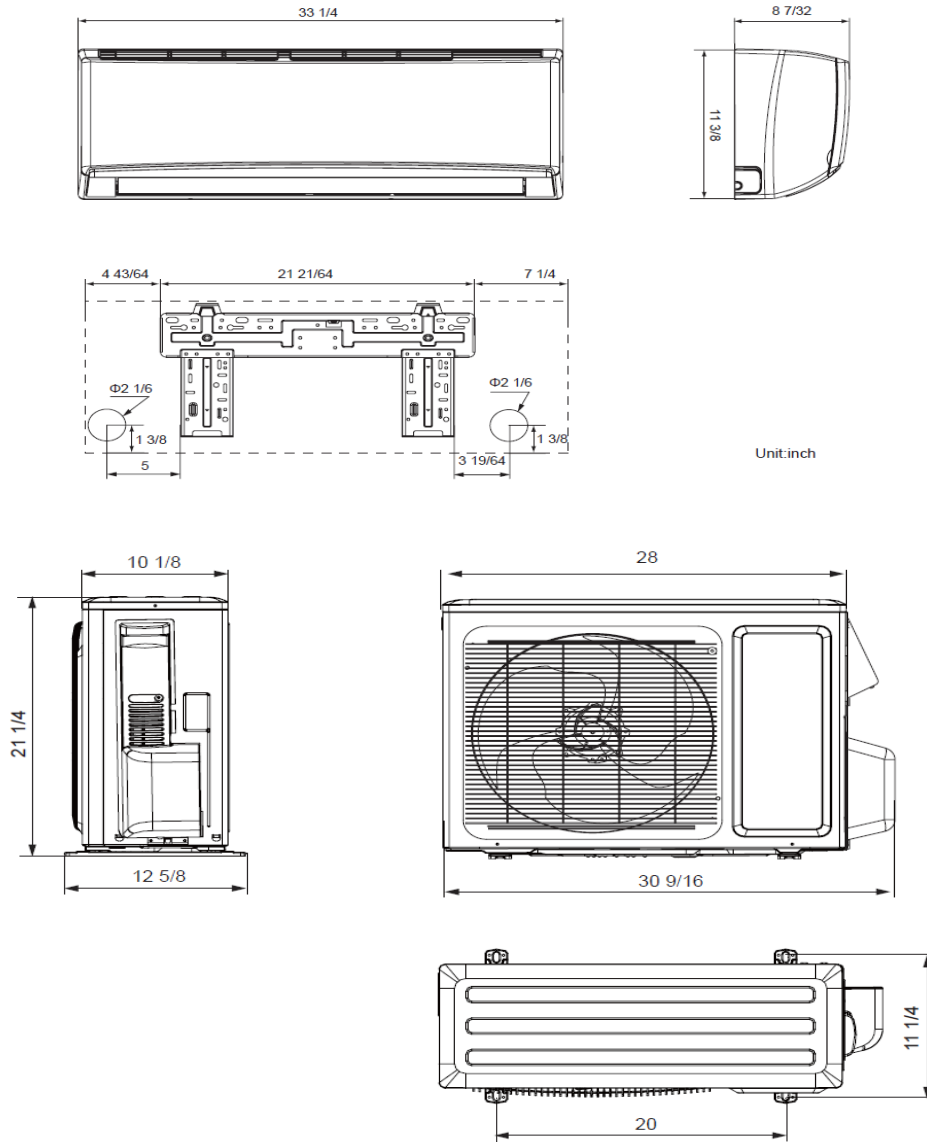
COOLING PERFORMANCE (BtuH)*								
Outdoor Ambient DB	Indoor Ambient Temperature							
	68F DB (20C)		73F DB (23C)		80F DB (27C)		82F DB (28C)	
	57F WB (14C)		61F WB (16C)		67F WB (19C)		68F WB (20C)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC
5°F	5,748	4,508	6,073	4,761	6,854	5,375	6,914	5,423
14°F	5,896	4,624	6,226	4,883	7,115	5,579	7,178	5,629
23°F	6,298	4,940	6,736	5,284	7,719	6,054	7,787	6,108
32°F	7,637	5,990	8,169	6,407	8,947	7,015	9,026	7,077
41°F	8,650	6,784	9,190	7,207	9,821	7,703	9,908	7,771
50°F	8,547	6,705	9,091	7,131	9,731	7,633	9,817	7,700
59°F	8,337	6,538	8,878	6,963	9,641	7,563	9,726	7,630
68°F	8,127	6,373	8,668	6,799	9,461	7,420	9,545	7,486
77°F	7,920	6,212	8,457	6,632	9,280	7,280	9,363	7,344
86°F	7,692	6,033	8,229	6,452	9,010	7,067	9,090	7,130
95°F	7,505	5,887	8,040	6,306	8,893	6,976	8,972	7,038
104°F	7,319	5,740	7,854	6,160	8,776	6,884	8,854	6,945
113°F	6,944	5,445	7,478	5,865	8,403	6,589	8,478	6,648
HEATING PERFORMANCE (BtuH)*								
Outdoor Ambient DB	Indoor Ambient Temperature							
	68F DB (20C)		73F DB (23C)		80F DB (27C)		86F DB (30C)	
	57F WB (14C)		61F WB (16C)		67F WB (19C)		72F WB (22C)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-4°F	5,772	5,772	5,717	5,717	5,620	5,620	5,393	5,393
0°F	6,253	6,253	6,194	6,194	6,091	6,091	5,840	5,840
6°F	6,597	6,597	6,535	6,535	6,425	6,425	6,160	6,160
10°F	6,872	6,872	6,806	6,806	6,693	6,693	6,418	6,418
16°F	7,078	7,078	7,013	7,013	6,896	6,896	6,610	6,610
19°F	7,219	7,219	7,147	7,147	7,030	7,030	6,738	6,738
24°F	8,020	8,020	7,951	7,951	7,831	7,831	7,542	7,542
32°F	8,955	8,955	8,886	8,886	8,766	8,766	8,477	8,477
41°F	10,024	10,024	9,955	9,955	9,838	9,838	9,546	9,546
43°F	10,292	10,292	10,223	10,223	10,103	10,103	9,814	9,814
47°F	11,223	11,223	11,110	11,110	10,918	10,918	10,443	10,443
53°F	11,337	11,337	11,220	11,220	11,024	11,024	10,546	10,546
59°F	11,595	11,595	11,478	11,478	11,275	11,275	10,787	10,787
64°F	11,842	11,842	11,722	11,722	11,516	11,516	11,017	11,017
70°F	12066	12066	11942	11942	11736	11736	11227	11227
75°F	12234	12234	12110	12110	11897	11897	11382	11382
* Maximum system capacity TC- Total Capacity (BtuH) SHC- Sensible Capacity (BtuH)								

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MODEL: TW09HQ2A3D

Outline Dimension Diagram



Approved By:

Signature

Date

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