

Lomo23

TOSOT

MODEL: TW12HQ2A3D

Project Name:

Location:

Engineer Name:

Purchaser:

Unit Designation:

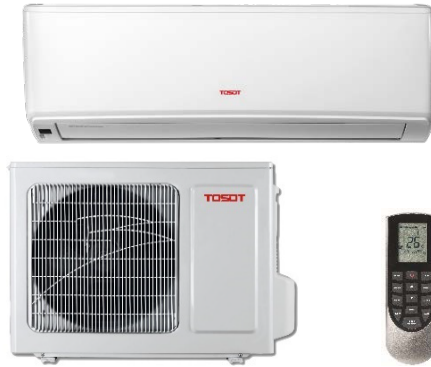
Schedule No.

Submitted To:

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	-12,000-13,000
SEER		22
EER		12.5
Heating:	-	-
Capacity (Min Rated Max, Btu/h)	2,400	-13,000- 14,000
HSPF		11
COP (W/W)		3.46

**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)	47.6
ODU Sound Pressure (dB(A))	54
IDU Sound Pressure (dB(A))	29 / 45
ODU Net Weight (lbs)	86
IDU Net Weight (lbs)	22
Dehumidifying (Pint/h)	2.96

**Electrical Specification**

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 14
MOP (A)	15
MCA (A)	9
Cooling Rated Amps (A)	6
Heating Rated Amps (A)	6.3
Compressor RLA (A)	4
Indoor Fan Motor RLA (A)	0.09
Outdoor Fan Motor RLA (A)	
Nominal Cooling Power Input (kW)	9.6
Nominal Heating Power Input (kW)	1.1

**Fan**

ODU / IDU Type	Axial-flow/Cross-flow
Fan Motor Output (W)	30
Motor/Drive	Direct Drive
ODU Max Air Flow Rate (CFM)	1999.9
IDU Air Flow Rate (CFM)	171 / 400

**Piping**

Liquid Line (in, OD)	1/4
Gas Line (in, OD)	1/2
Additional Refrigerant (oz./ft.)	0.215
Max Pipe Length (ft.)	66
Piping Length (with factory charge, ft.)	24.6
Max Elevation (ft.)	49

AHRI certification Ref #



## Capacity Variation Ratio According to Temperature

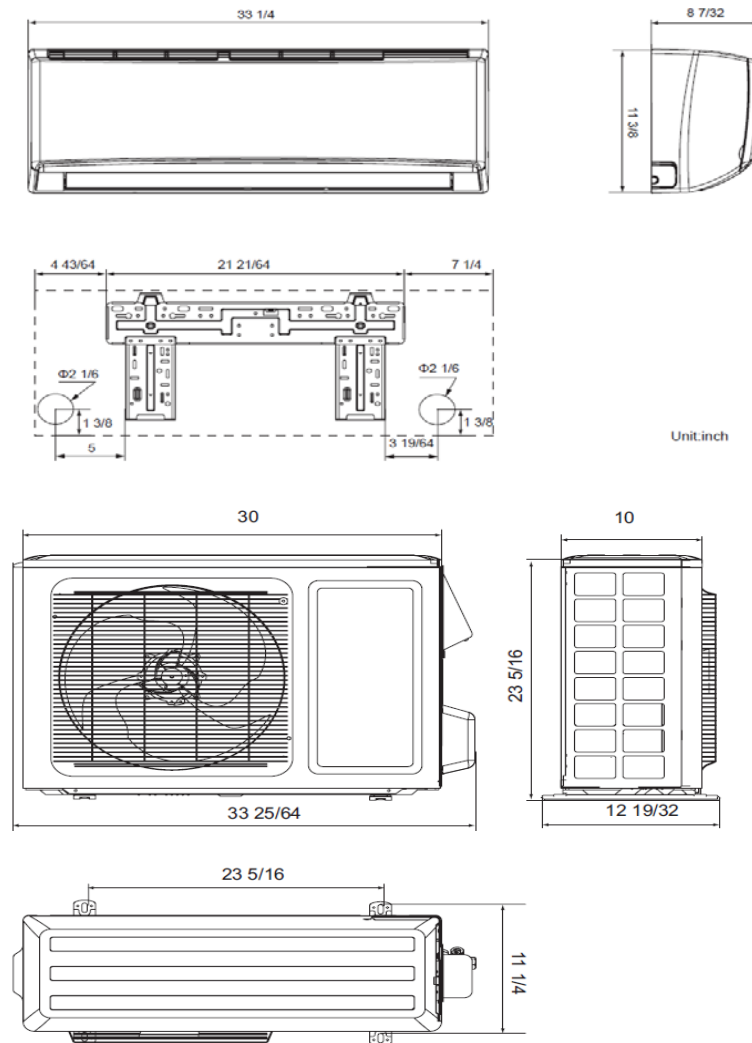
COOLING PERFORMANCE (BtuH)*								
Outdoor Ambient DB	Indoor Ambient Temperature							
	68F DB (20C)		73F DB (23C)		80F DB (27C)		82F DB (28C)	
	57F WB (14C)		61F WB (16C)		67F WB (19C)		68F WB (20C)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC
5°F	7,656	6,005	8,088	6,341	9,128	7,159	9,508	7,458
14°F	7,852	6,159	8,292	6,503	9,476	7,431	9,871	7,740
23°F	8,388	6,580	8,972	7,038	10,280	8,063	10,708	8,399
32°F	10,172	7,978	10,880	8,533	11,916	9,343	12,413	9,732
41°F	11,520	9,035	12,240	9,598	13,080	10,259	13,625	10,686
50°F	11,384	8,930	12,108	9,497	12,960	10,166	13,500	10,589
59°F	11,104	8,707	11,824	9,274	12,840	10,072	13,375	10,492
68°F	10,824	8,488	11,544	9,055	12,600	9,882	13,125	10,294
77°F	10,548	8,273	11,264	8,833	12,360	9,696	12,875	10,100
86°F	10,244	8,034	10,960	8,594	12,000	9,412	12,500	9,804
95°F	9,996	7,840	10,708	8,399	11,844	9,290	12,338	9,678
104°F	9,748	7,645	10,460	8,205	11,688	9,169	12,175	9,551
113°F	9,248	7,252	9,960	7,812	11,192	8,776	11,658	9,142
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	6,821	6,821	6,756	6,756	6,642	6,642	6,374	6,374
0°F	7,390	7,390	7,321	7,321	7,199	7,199	6,902	6,902
6°F	7,796	7,796	7,723	7,723	7,593	7,593	7,280	7,280
10°F	8,121	8,121	8,044	8,044	7,910	7,910	7,585	7,585
16°F	8,365	8,365	8,288	8,288	8,149	8,149	7,812	7,812
19°F	8,531	8,531	8,446	8,446	8,308	8,308	7,963	7,963
24°F	9,478	9,478	9,397	9,397	9,254	9,254	8,913	8,913
32°F	10,583	10,583	10,502	10,502	10,359	10,359	10,018	10,018
41°F	11,846	11,846	11,765	11,765	11,627	11,627	11,282	11,282
43°F	12,163	12,163	12,082	12,082	11,940	11,940	11,598	11,598
47°F	13,264	13,264	13,130	13,130	12,903	12,903	12,342	12,342
53°F	13,398	13,398	13,260	13,260	13,028	13,028	12,464	12,464
59°F	13,703	13,703	13,565	13,565	13,325	13,325	12,748	12,748
64°F	13,995	13,995	13,853	13,853	13,609	13,609	13,020	13,020
70°F	14,259	14,259	14,113	14,113	13,869	13,869	13,268	13,268
75°F	14,458	14,458	14,312	14,312	14,060	14,060	13,451	13,451
* Maximum system capacity								
TC- Total Capacity ( BtuH)								
SHC- Sensible Capacity (BtuH)								

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**TOSOT**

MODEL: TW12HQ2A3D

Outline Dimension Diagram



Approved By:

Signature

Date

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