

Lomo 17 Heat Pump**TOSOT****MODEL: TW12HQ1B2D**

Project Name:

Location:

Engineer Name:

Purshaser:

Unit Designation:

Schedule No.

SubmittedTo:

Date:

**General Features**

- Low Ambient Cooling to 0 F / -18 C
- Multiple Fan Speeds
- Memory Function
- Fan Delay Function
- Intelligent Pre-heating / Defrost
- Control lock

- Smart 1 Hertz Inverter Technology
- Load Protection Features
- Over-Current Protection
- Drain Pan Heater
- LED display

Unit Performance:

Cooling:	-	-
Capacity (Min Rated Max, Btu/h)	1,024-12,000-12,624	
SEER	17	
EER	9.25	
Heating:	-	-
Capacity (Min Rated Max, Btu/h)	2,388-13,000-13,648	
HSPF	9	
COP (W/W)	3.25	

Compressor

Cooling Operation Ambient temp. Range	-18~46 C
Heating Operation Ambient temp. Range	-20~24 C
Compressor Type	Rotary
Compressor RLA (A)	6.6
Crankcase Heater	Yes

Electrical Specification

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 14
MOP (A)	15
MCA (A)	9
Cooling Rated Amps (A)	5.6
Heating Rated Amps (A)	6.3
Indoor Fan Motor RLA (A)	0.31
Outdoor Fan Motor RLA(A)	0.37
Nominal Cooling Power Input (kW)	1.3
Nominal Heating Power Input (kW)	1.2

Unit Specification

Refrigerant Type	R410A
Refrigerant Charge (oz)	28.2
ODU Sound Pressure (dB(A))	50
IDU Sound Pressure (dB(A))	39/37/33/26
ODU Net Weight (lbs)	58.4
IDU Net Weight (lbs)	19.8
Dehumidifying (Pint/D)	2.96

Fan

ODU / IDU Type	Axial-flow/Cross-flow
Fan Motor Output (W)	30
Motor/Drive	Direct Drive
ODU Max Air Flow Rate (CFM)	941.7
IDU Air Flow Rate (CFM)	182/371

Piping

Liquid Line (in, OD)	1/4
Gas Line (in, OD)	3/8
Additional Refrigerant (oz./ft.)	0.2
Max Pipe Length (ft.)	65.6
Piping Length (with factory charge, ft.)	24.6
Max Elevation (ft.)	32.8



AHRI certification Ref #

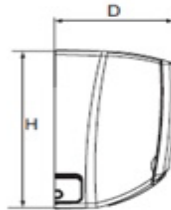
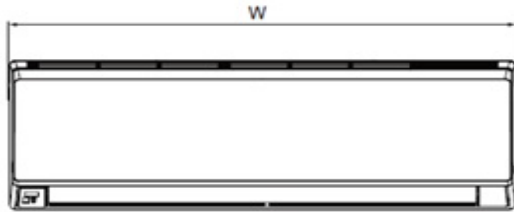
COOLING PERFORMANCE (BtuH)*									
Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures								
	68°F DB		73°F DB		80°F DB				
	57°FWB		61°FWB		67°FWB				
	TC	SHC	TC	SHC	TC	SHC			
0°F	4080	2958	5040	3654	6000	4350			
5°F	4680	3416	5640	4117	6600	4818			
17°F	5280	3881	6240	4586	7200	5292			
23°F	5520	4085	6480	4795	7440	5506			
32°F	5760	4291	6720	5006	7680	5722			
41°F	6480	4860	7440	5580	8400	6300			
50°F	7200	5436	8160	6161	9120	6886			
57°F	7680	5837	8640	6566	9600	7296			
67°F	8040	6151	9000	6885	9960	7619			
75°F	10080	7762	11040	8501	12000	9240			
86°F	11160	8649	12120	9393	13080	10137			
95°F	10080	7862	11040	8611	12000	9360			
104°F	8880	6971	9840	7724	10800	8478			
113°F	8160	6446	9120	7205	10080	7963			
122°F	6960	5533	7920	6296	8880	7060			
HEATING PERFORMANCE (BtuH)*									
Outdoor Ambient Temperature (DB)	Indoor Entering Air Temperatures								
	68°F DB			70°F DB			80°F DB		
	57°FWB			60°FWB			67°FWB		
	TC	Power Input (KW)	COP	TC	Power Input (KW)	COP	TC	Power Input (KW)	COP
-5°F	5980	938	1.87	6240	958	1.91	6500	977	1.95
0°F	6890	958	2.11	7150	977	2.14	7410	997	2.18
5°F	7280	977	2.18	7540	997	2.22	7800	1017	2.25
10°F	7540	997	2.22	7800	1017	2.25	8060	1038	2.28
17°F	8407	1017	2.42	8667	1038	2.45	8927	1059	2.47
19°F	8840	1038	2.50	9100	1059	2.52	9360	1081	2.54
24°F	10140	1059	2.81	10400	1081	2.82	10660	1103	2.83
32°F	11180	1081	3.03	11440	1103	3.04	11700	1125	3.05
41°F	12090	1103	3.21	12350	1126	3.22	12610	1148	3.22
43°F	12480	1126	3.25	12740	1149	3.25	13000	1172	3.25
47°F	12740	1149	3.25	13000	1172	3.25	13260	1195	3.25
53°F	12870	1183	3.19	13130	1207	3.19	13390	1231	3.19
59°F	13000	1219	3.13	13260	1243	3.13	13520	1268	3.12
64°F	13390	1255	3.13	13650	1281	3.12	13910	1306	3.12
70°F	13780	1293	3.12	14040	1319	3.12	14300	1345	3.11
75°F	14170	1331	3.12	14430	1359	3.11	14690	1386	3.11
78°F	14690	1371	3.14	14950	1399	3.13	15210	1427	3.12
* Maximum system capacity TC- Total Capacity (BtuH) COP- Coefficient of Performance									

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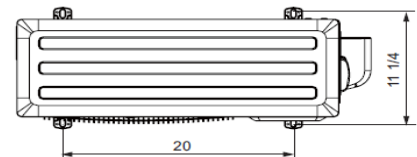
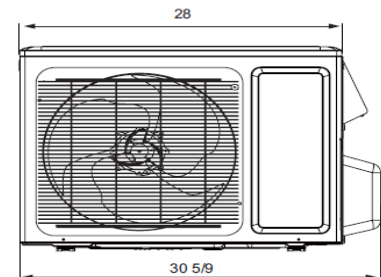
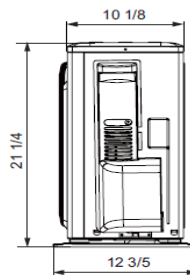
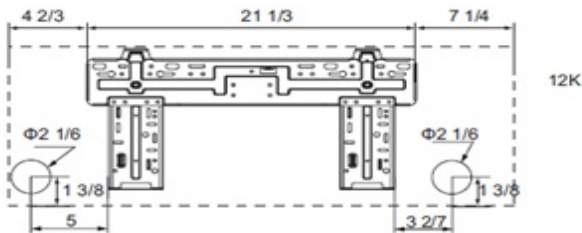
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MODEL: TW12HQ1B2D

Outline Dimension Diagram



W	H	D
33 1/4	11 3/8	8 1/4



Approved By:

Signature

Date

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