

Lomo16 Heat Pump**TOSOT****MODEL: TW18HQ1C8D**

Project Name:

Location:

Engineer Name:

Purshaser:

Unit Designation:

Schedule No.

SubmittedTo:

Date:

**General Features**

- Low Ambient Cooling to 5 °F
- 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
- Anti Freeze Protection
- LED display

Unit Performance:

Cooling:	-	-
Capacity (Min Rated Max, Btu/h)	7,165-18,000-20,000	
SEER		16
EER		9.37
Heating:	-	-
Capacity (Min Rated Max, Btu/h)	7,336-19,000-23,498	
HSPF		9
COP (W/W)		2.78

Compressor

Cooling Operation Ambient temp. Range	5~115 F
Heating Operation Ambient temp. Range	-5~75 F
Compressor Type	Rotary
Compressor RLA (A)	7.2
Crankcase Heater	Yes

Electrical Specification

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 14
MOP (A)	25
MCA (A)	16
Cooling Rated Amps (A)	11.5
Heating Rated Amps (A)	11.5
Compressor RLA (A)	7.2
Indoor Fan Motor RLA (A)	0.32
Outdoor Fan Motor RLA(A)	0.37
Nominal Cooling Power Input (kW)	1.92
Nominal Heating Power Input (kW)	2

Unit Specification

Refrigerant Type	R410A
Refrigerant Charge (oz)	49.4
ODU Sound Pressure (dB(A))	56
IDU Sound Pressure (dB(A))	46/42/39/35
ODU Net Weight (lbs)	96
IDU Net Weight (lbs)	29.8
Dehumidifying (Pint/h)	3.8

Fan

ODU / IDU Type	Axial-flow / Cross-flow
Fan Motor Output (W)	60
Motor/Drive	Direct Drive
ODU Max Air Flow Rate (CFM)	1883
IDU Air Flow Rate (CFM)	282 / 471

Piping

Liquid Line (in, OD)	1/4
Gas Line (in, OD)	1/2
Additional Refrigerant (oz./ft.)	0.2
Max Pipe Length (ft.)	82
Piping Length (with factory charge, ft.)	24.6
Max Elevation (ft.)	49



AHRI certification Ref #

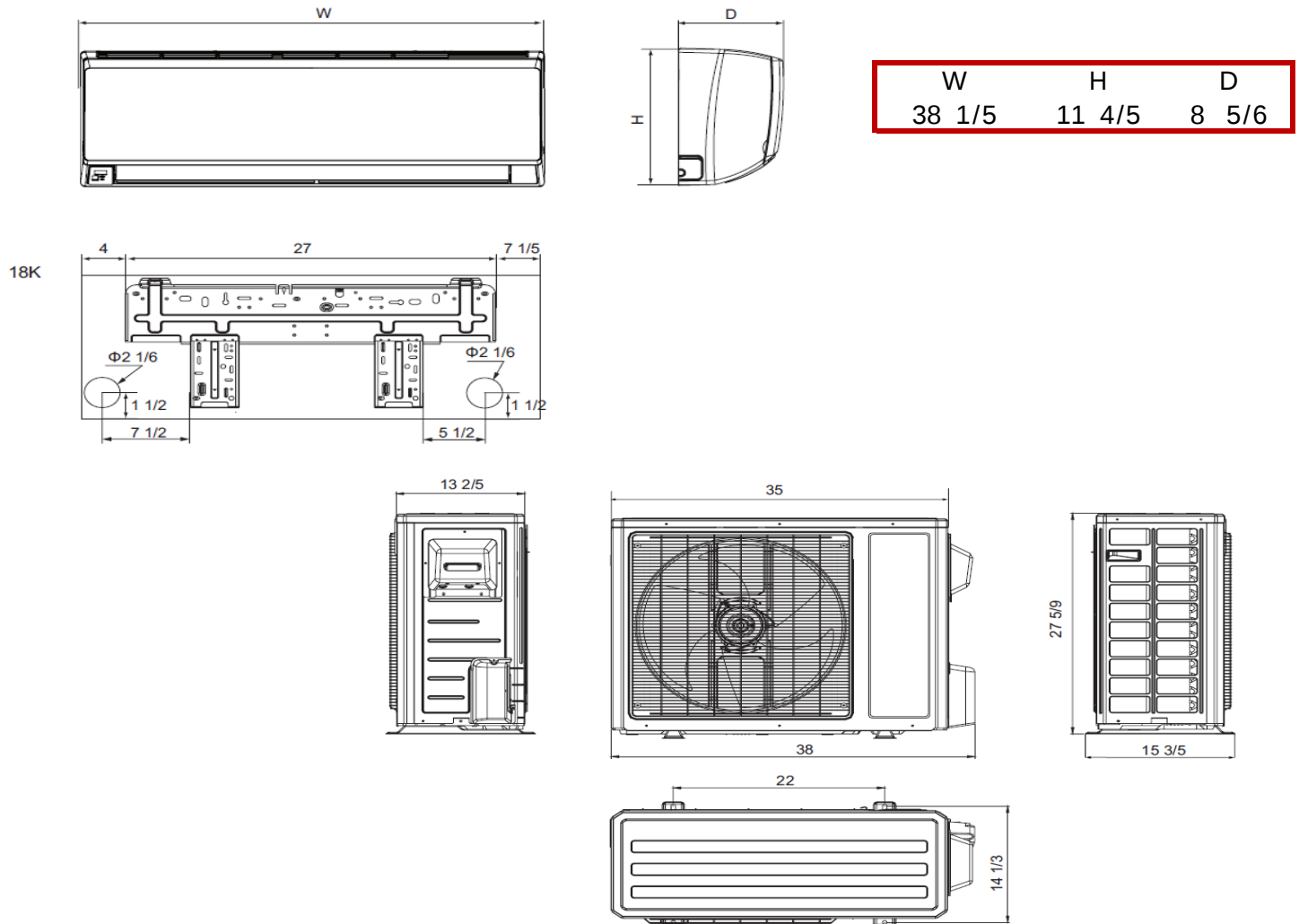
COOLING PERFORMANCE (BtuH)*									
Outdoor Ambient DB	Indoor Ambient Temperature								
	68F DB (20C)		73F DB (23C)		80F DB (27C)		82F DB (28C)		
	57F WB (14C)		61F WB (16C)		67F WB (19C)		68F WB (20C)		
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
0°F	9,302	7,296	9,827	7,704	11,091	8,699	11,423	8,910	
5°F	10,111	7,930	10,682	8,374	12,055	9,455	12,417	9,685	
14°F	11,729	9,199	12,391	9,714	13,984	10,968	14,404	11,235	
23°F	12,850	10,080	13,745	10,782	15,749	12,352	16,221	12,653	
32°F	13,332	10,458	14,260	11,186	16,339	12,815	16,830	13,127	
41°F	13,832	10,850	14,795	11,605	16,952	13,296	17,461	13,619	
50°F	14,351	11,257	15,350	12,041	17,588	13,794	18,115	14,130	
59°F	15,583	12,222	16,668	13,072	18,255	14,314	18,803	14,666	
68°F	17,649	13,842	18,752	14,705	20,038	15,716	20,640	16,099	
77°F	17,440	13,680	18,549	14,549	19,855	15,574	20,450	15,951	
86°F	16,582	13,004	17,685	13,873	19,303	15,139	19,882	15,508	
95°F	15,694	12,309	16,025	12,569	18,384	14,419	18,935	14,770	
104°F	14,934	11,713	15,259	11,967	17,056	14,047	17,567	13,702	
113°F	14,168	11,111	14,707	11,533	15,833	13,445	16,308	12,720	
115°F	14,126	11,078	14,768	11,581	15,787	13,393	16,261	12,683	
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	10,146	10,146	9,975	9,975	9,776	9,776	9,572	9,572	
0°F	10,994	10,994	10,811	10,811	10,596	10,596	10,365	10,365	
6°F	11,598	11,598	11,402	11,402	11,176	11,176	10,933	10,933	
10°F	12,080	12,080	11,878	11,878	11,642	11,642	11,390	11,390	
16°F	12,446	12,446	12,238	12,238	11,995	11,995	11,732	11,732	
19°F	12,684	12,684	12,476	12,476	12,228	12,228	11,958	11,958	
24°F	14,111	14,111	13,898	13,898	13,621	13,621	13,385	13,385	
32°F	15,771	15,771	15,557	15,557	15,248	15,248	15,045	15,045	
41°F	17,668	17,668	17,461	17,461	17,113	17,113	16,942	16,942	
43°F	18,144	18,144	17,930	17,930	17,574	17,574	17,418	17,418	
47°F	19,718	19,718	19,376	19,376	18,991	18,991	18,534	18,534	
53°F	19,913	19,913	19,565	19,565	19,176	19,176	18,717	18,717	
59°F	20,371	20,371	20,011	20,011	19,613	19,613	19,144	19,144	
64°F	20,804	20,804	20,438	20,438	20,031	20,031	19,553	19,553	
70°F	21,194	21,194	20,828	20,828	20,414	20,414	19,925	19,925	
75°F	21,493	21,493	21,115	21,115	20,695	20,695	20,200	20,200	
* Maximum system capacity									
TC- Total Capacity (BtuH)									
SHC- Sensible Capacity (BtuH)									

Lomo16 Heat Pump

TOSOT

MODEL: TW18HQ1C8D

Outline Dimension Diagram



Unit: inch

Approved By:

Signature

Date

TOSOT

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