

Lomo16 Heat Pump**TOSOT****MODEL: TW12HQ1B8A**

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)	3,753-12,000-12,500	
SEER		16
EER		10.55
Heating:	-	-
Capacity (Min Rated Max, Btu/h)	3,412-13,000-15,013	
HSPF		9
COP (W/W)		3.1

Compressor

Cooling Operation Ambient temp. Range	5~115 F
Heating Operation Ambient temp. Range	-5~75 F
Compressor Type	Swing
Compressor RLA (A)	15.2
Crankcase Heater	Yes

Electrical Specification

Power Supply	115V / 60Hz
Communications Wire Size	AWG 14
MOP (A)	30
MCA (A)	20
Compressor RLA (A)	15.2
Indoor Fan Motor RLA (A)	0.3
Outdoor Fan Motor RLA(A)	0.23
Nominal Cooling Power Input (kW)	1.2
Nominal Heating Power Input (kW)	1.25

Unit Specification

Refrigerant Type	R410A
Refrigerant Charge (oz)	30
ODU Sound Pressure (dB(A))	53
IDU Sound Pressure (dB(A))	45/39/35/29
ODU Net Weight (lbs)	69
IDU Net Weight (lbs)	23.1
Dehumidifying (Pint/h)	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)	942
IDU Air Flow Rate (CFM)	194 / 400

Piping

Liquid Line (in, OD)	1/4
Gas Line (in, OD)	3/8
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

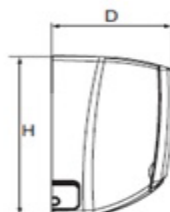
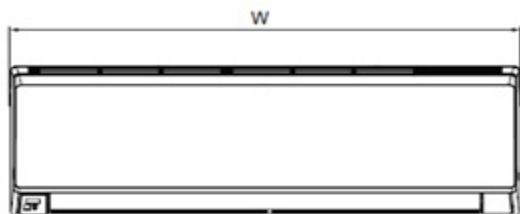
COOLING PERFORMANCE (BtuH)*								
Outdoor Ambient DB	Indoor Ambient Temperature							
	68F DB (20C)		73F DB (23C)		80F DB (27C)		82F DB (28C)	
	57F WB (14C)		61F WB (16C)		67F WB (19C)		68F WB (20C)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC
0°F	6,955	5,800	7,295	6,070	9,265	7,395	8,030	6,590
5°F	7,087	5,903	7,423	6,170	9,327	7,530	8,163	6,693
14°F	7,350	6,110	7,680	6,370	9,450	7,800	8,430	6,900
23°F	7,900	6,540	8,340	6,890	10,360	8,230	9,350	7,620
32°F	8,240	6,800	8,700	7,170	10,540	8,510	9,780	7,960
41°F	8,580	7,060	9,060	7,450	10,850	9,040	10,210	8,300
50°F	8,920	7,320	9,420	7,730	10,900	9,260	10,640	8,640
59°F	9,240	7,590	9,770	8,010	10,950	9,540	11,070	8,960
68°F	10,250	8,390	10,790	8,810	11,010	9,610	11,840	9,570
77°F	10,150	8,310	10,690	8,730	11,260	9,750	11,710	9,460
86°F	9,730	7,980	10,270	8,400	11,560	10,010	11,440	9,250
95°F	9,290	7,640	9,830	8,060	12,000	9,420	10,940	9,020
104°F	8,920	7,340	9,460	7,760	11,860	9,390	10,760	8,720
113°F	8,550	7,050	9,080	7,470	10,910	9,180	10,390	8,430
115°F	8,529	7,033	9,050	7,447	10,842	9,154	10,357	8,403
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	7,090	7,090	7,120	7,120	7,190	7,190	7,120	7,120
0°F	7,130	7,130	7,280	7,280	7,260	7,260	7,210	7,210
6°F	7,160	7,160	7,220	7,220	7,310	7,310	7,120	7,120
10°F	7,950	7,950	8,130	8,130	8,240	8,240	8,090	8,090
16°F	8,560	8,560	9,060	9,060	9,210	9,210	8,290	8,290
19°F	9,250	9,250	9,580	9,580	9,350	9,350	9,040	9,040
24°F	9,830	9,830	10,030	10,030	10,800	10,800	10,340	10,340
32°F	11,040	11,040	11,520	11,520	11,910	11,910	11,260	11,260
41°F	11,230	11,230	11,980	11,980	12,010	12,010	11,393	11,393
43°F	12,000	12,000	12,370	12,370	12,560	12,560	11,560	11,560
47°F	12,780	12,780	13,060	13,060	13,640	13,640	12,110	12,110
53°F	13,020	13,020	13,290	13,290	13,680	13,680	12,120	12,120
59°F	12,370	12,370	12,680	12,680	12,950	12,950	12,230	12,230
64°F	12,010	12,010	12,320	12,320	12,563	12,563	11,980	11,980
70°F	12,110	12,110	12,360	12,360	12,803	12,803	11,870	11,870
75°F	12,350	12,350	12,960	12,960	12,780	12,780	11,590	11,590
* Maximum system capacity TC- Total Capacity (BtuH) SHC- Sensible Capacity (BtuH)								

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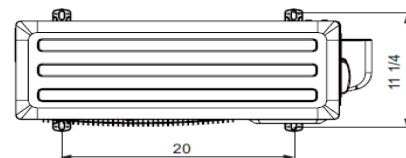
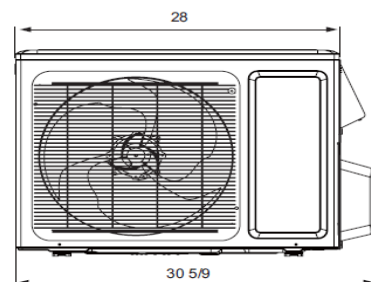
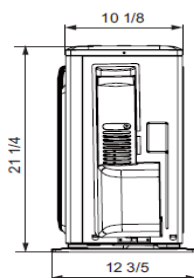
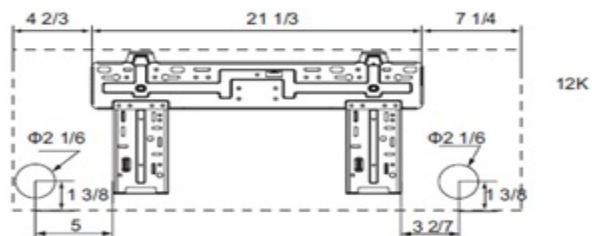
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MODEL: TW12HQ1B8A

Outline Dimension Diagram



W	H	D
33 1/4	11 3/8	8 2/9



Approved By:

Signature

Date

TOSOT

315 Boulevard Industriel, Châteauguay, QC, Canada J6J 4Z2

Contact: +1 (450) 698-4000

info@tosotamerica.com

tosotamerica.com