TOSOT

Submittal Data: TM30H4O	30,000 BTU/H Wall Mounted Heat- Pump System
Job Name	Location Date
Purchaser	Engineer
Submitted To	For ☐ Reference ☐ Approval ☐ Construction
Unit Designation	Schedule No.

GENERAL FEATURES

- **-Up to 4 Indoor Units (4-Port)**
- **-EnergyStar Rated**
- **-G10 DC Inverter Technology**
- **-Quiet Operation - Both Indoor & Outdoor**
- **-Acrylic Resin/Anti-Corrosion Coil Protection Inside & Out**
- **-Intelligent Defrost**
- **-Auto Restart on Power Outages**
- **-Mulit-point Diagnostics**
- **-Limited 5 yr Parts Warranty, 7 yr Compressor Warranty**

System Ratings

Non-Ducted Indoor	
Rated Cooling Capacity	28,400 BTUH
Cooling Capacity (min-max)	8,189-33,438 BTUH
Rated Heating Capacity	30,00 BTUH
Heating Capacity (min-max)	8,189-32,414 BTUH
SEER/EER	21.0/12.5
HSPF/COP	11.5/3.7
Ducted Indoor	
Rated Cooling Capacity	28,400 BTUH
Cooling Capacity (min-max)	6,200-30,800 BTUH
Rated Heating Capacity	30,000 BTUH
Heating Capacity (min-max)	6,500-32,500 BTUH
SEER/EER	16.0/10.5
HSPF/COP	8.5/3.3

Operating Range		
Cooling	(min-max)	0 ~ 118°F
		-18 ~ 48°C
Heating	(min-max)	-4 ~ 86°F
		-20 ~ 30°C

Power Supply	
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
Voltage Range	187 - 253 V
Main Power Wire Size	10-2 AWG
Interconnecting Cable Wire Size	14-4 AWG
MCA	20.0 A
MOCP/Breaker Size	30 A

Outdoor Unit Data

Compressor	Type	DC Inverter Driven Rotary
	RLA	13.9 A
Fan Motor	Output Power	100 W
	FLA	0.7 A
	Air Flow (Max)	2,354 CFM
Sound Pressure		
Cooling		59 db(A)
Heating		59 db(A)
Dimensions & Weights		
Unit Dimensions (LxHxD)		38.4 x 31.0 x 17.3 -in
Weight (Net/Shipping)		154.0/169.4 LBS
Min. Number of Indoor Units		2
Max. Number of Indoor Units		4

Refrigerant Piping Data

Refrigerant Type	R410A
Refrigerant Charge	98.7 oz
Additional Charge Per Line Length	0.21-oz/ft
Connection Method	Flared
Factory Charge for Total Line Length	131-ft
Total Refrigerant Pipe Length	230-ft
Max Refrigerant Piping Length to any Indoor Unit	82-ft
Min Refrigerant Piping Length to any Indoor Unit	10-ft
Max Elevation between Indoor Units	25-ft
Max Lift from Outdoor to Indoor Unit	49-ft
Max Drop from Outdoor to Indoor Unit	49-ft

INVERTER R410A AHRI CERTIFIED ETL LISTED

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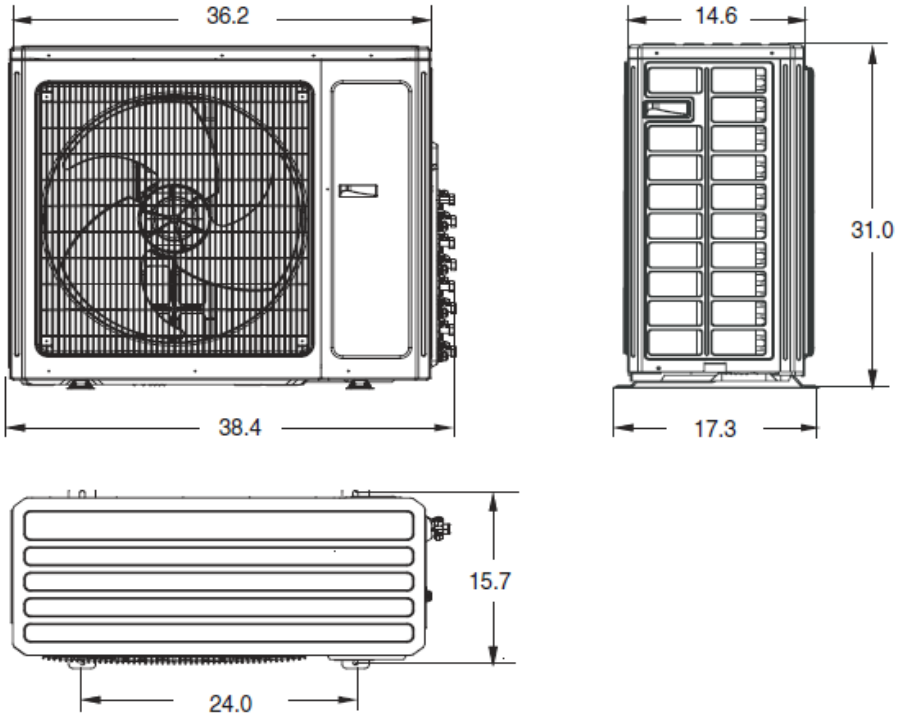
DIMENSIONAL SPECIFICATIONS — TM30H4O

Units: inch

30,000 BTUH MODE

Model #TM30H4O 30,000 BTUH 230V



Suction/Gas Line Port Size

Port A	3/8-in OD Flared
Port B	3/8-in OD Flared
Port C	3/8-in OD Flared
Port D	3/8-in OD Flared

Factory Supplied Piping Adapters

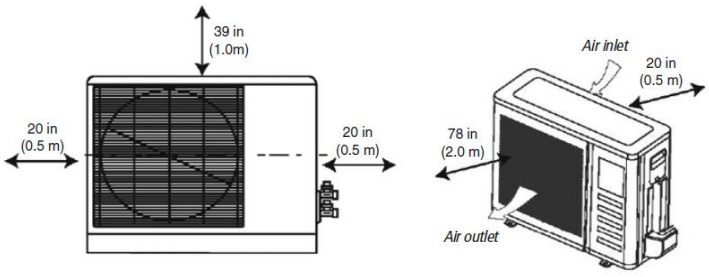
Adapter	P/N	Qty
3/8 (F) to 5/8 (M)	6654100009	2
3/8 (F) to 1/2 (M)	6654100013	4
1/4 (F) to 3/8 (M)	6654104	2

Liquid Line Port Size

Port A	1/4-in OD Flared
Port B	1/4-in OD Flared
Port C	1/4-in OD Flared
Port D	1/4-in OD Flared

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



Notes:

1. Recommended Interconnecting Cable Type Stranded Copper Conductors THHN 600V Unshielded Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

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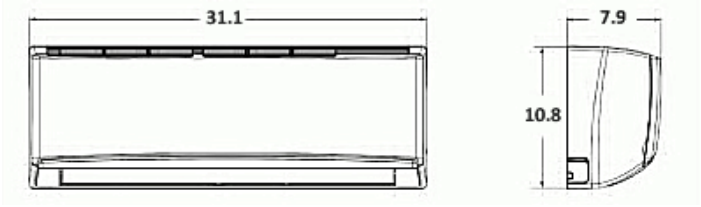
INDOOR DUCTLESS DIMENSIONAL SPECIFICATIONS — TM30H4O

Units: inch

Entry Level Series- 9,000 BTUH 230V

9,000 BTUH MODEL



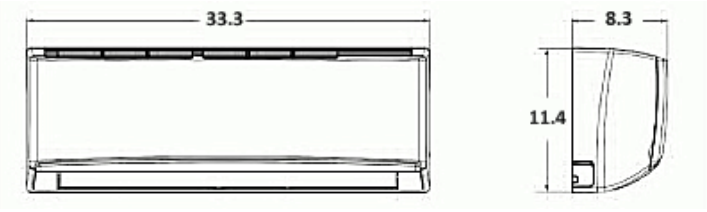
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

Rated Cooling (BtuH)	Rated Heating (BtuH)	Max. CFM	Dehum (Pt/Hr)	Min/Max Sound Power dB(A)**
9,000	9,500	318	1.7	28/43

Note: Size Refrigerant lines based on evaporator port sizes.

Entry Level Series- 12,000 BTUH 230V

12,000 BTUH MODEL



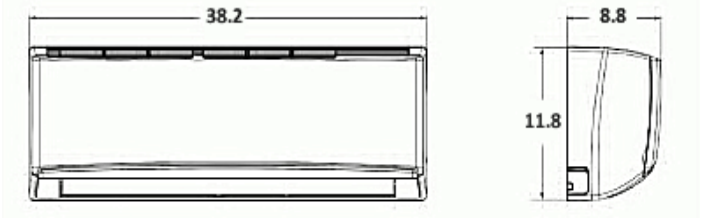
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

Rated Cooling (BtuH)	Rated Heating (BtuH)	Max. CFM	Dehum (Pt/Hr)	Min/Max Sound Power dB(A)**
12,000	13,000	400	3.0	29/45

Note: Size Refrigerant lines based on evaporator port sizes.

Entry Level Series- 18,000 BTUH 230V

18,000 BTUH MODEL



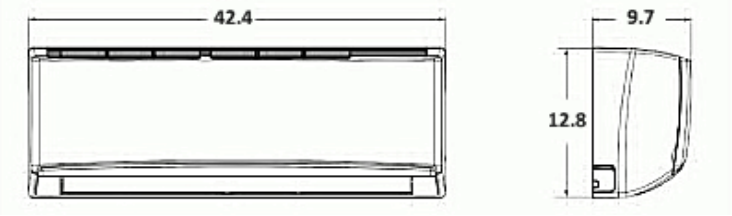
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

Rated Cooling (BtuH)	Rated Heating (BtuH)	Max. CFM	Dehum (Pt/Hr)	Min/Max Sound Power dB(A)**
18,000	19,000	471	3.8	35/46

Note: Size Refrigerant lines based on evaporator port sizes.

Entry Level Series- 24,000 BTUH 230V

24,000 BTUH MODEL



Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	5/8-in OD Flared
Drain Connector	5/8-in OD

Rated Cooling (BtuH)	Rated Heating (BtuH)	Max. CFM	Dehum (Pt/Hr)	Min/Max Sound Power dB(A)**
22,000	23,000	706	5.3	36/48

Note: Size Refrigerant lines based on evaporator port sizes.

**Sound Power ratings are per AHRI 270 and AHRI 350

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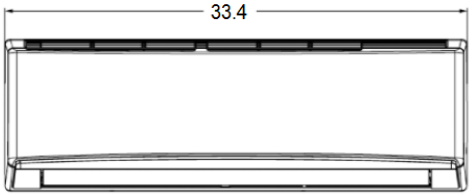
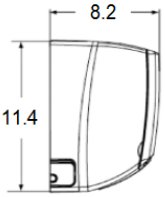
INDOOR DUCTLESS DIMENSIONAL SPECIFICATIONS TM30H4O

Units: inch

9,000 AND 12,000 BTUH MODELS

Mid Level Series- 9,000 BTUH 230V 12,000 BTUH 230V





9,000 BTU	
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

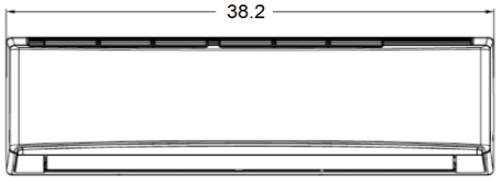
12,000 BTU	
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

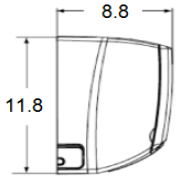
Note: Size Refrigerant lines based on evaporator port sizes.

Indoor Capacity Size	Rated Cooling	Rated Heating	Max. CFM	Dehum (Pt/Hr)	Min/Max Sound Power dB(A)**
9,000 BTUH	9,000	11,000	377	1.7	29/43
12,000 BTUH	12,000	13,000	400	3.0	29/45

18,000 BTUH MODEL

Mid Level Series- 18,000 BTUH 230V





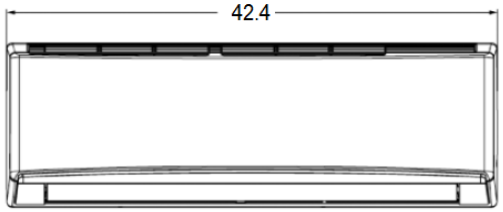
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	5/8-in OD Flared
Drain Connector	5/8-in OD

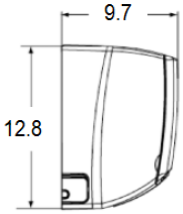
Note: Size Refrigerant lines based on evaporator port sizes.

Rated Cooling (BtuH)	Rated Heating	Max. CFM	Dehumid. (Pt/Hr)	Min/Max Sound Power dB(A)**
18,000	19,800	559	3.8	39/47

24,000 BTUH MODEL

Mid Level Series- 24,000 BTUH 230V





Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	5/8-in OD Flared
Drain Connector	5/8-in OD

Note: Size Refrigerant lines based on evaporator port sizes.

Rated Cooling (BtuH)	Rated Heating	Max. CFM	Dehumid. (Pt/Hr)	Min/Max Sound Power dB(A)**
22,000	23,000	706	4.2	36/48

**Sound Power ratings are per AHRI 270 and AHRI 350

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OPERATIONAL PERFORMANCE SPECIFICATIONS TM30H4O

COOLING CAPACITY (BTUH)

Indoor Units Combinations	Rated System Capacity (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)
9+9	18,000	9,000	9,000	NA	NA
9+12	21,000	9,000	12,000	NA	NA
9+18	22,950	7,650	15,300	NA	NA
9+24	27,780	7,380	20,400	NA	NA
12+12	24,000	12,000	12,000	NA	NA
12+18	25,500	10,200	15,300	NA	NA
12+24	28,860	9,420	19,440	NA	NA
18+18	28,360	14,180	14,180	NA	NA
18+24	29,100	12,000	17,100	NA	NA
9+9+9	25,500	8,500	8,500	8,500	NA
9+9+12	26,200	8,000	8,000	10,200	NA
9+9+18	29,800	7,650	7,650	14,500	NA
9+9+24	29,800	6,300	6,300	17,200	NA
9+12+12	28,200	8,200	10,000	10,000	NA
9+12+18	29,600	7,000	8,600	14,000	NA
12+12+12	28,500	9,500	9,500	9,500	NA
12+12+18	30,200	8,600	8,600	13,000	NA
9K + 9K + 9K + 9K	29,600	7,400	7,400	7,400	7,400
9K + 9K + 9K + 12K	29,700	7,100	7,100	7,100	8,400
9K + 9K + 12K + 12K	29,600	6,800	6,800	8,000	8,000

HEATING CAPACITY (BTUH)

Indoor Units Combinations	Rated System Capacity (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)
9+9	19,000	9,500	9,500	NA	NA
9+12	22,500	9,500	13,000	NA	NA
9+18	25,380	8,460	16,920	NA	NA
9+24	30,840	8,280	22,560	NA	NA
12+12	26,000	13,000	13,000	NA	NA
12+18	28,200	11,280	16,920	NA	NA
12+24	29,900	9,900	20,000	NA	NA
18+18	30,200	15,100	15,100	NA	NA
18+24	31,800	13,300	18,500	NA	NA
9+9+9	28,500	9,500	9,500	9,500	NA
9+9+12	28,800	8,800	8,800	11,200	NA
9+9+18	31,100	7,900	7,900	15,300	NA
9+9+24	31,500	6,750	6,750	18,000	NA
9+12+12	28,900	8,500	10,200	10,200	NA
9+12+18	30,700	7,200	9,000	14,500	NA
12+12+12	29,700	9,900	9,900	9,900	NA
12+12+18	31,500	9,000	9,000	13,500	NA
9K + 9K + 9K + 9K	30,800	7,700	7,700	7,700	7,700
9K + 9K + 9K + 12K	31,300	7,300	7,300	7,300	9,400
9K + 9K + 12K + 12K	31,600	6,800	6,800	9,000	9,000

Capacity data is based on the following conditions :

Cooling Nominal Test Conditions
Indoor: 80°F DB/67°F WB
Outdoor: 95°F DB/75°F WB

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EXTENDED RATINGS — TM30H4O

Cooling Performance (BTU/h)

DB Outdoor Ambient Temperature (°F)	Indoor Entering Air Temperature (DB/WB)							
	68°F/57°F		73°F/61°F		80°F/67°F		82°F/68°F	
	TC	SC	TC	SC	TC	SHC	TC	SC
0	22,103	17,335	23,514	18,434	26,897	21,096	27,435	21,518
5	22,786	17,875	24,241	19,005	27,729	21,754	28,561	22,406
14	23,977	18,805	25,330	19,858	28,587	22,421	29,739	23,322
23	24,553	19,260	26,263	20,601	30,091	23,601	31,391	24,621
32	26,026	20,408	27,985	21,944	31,675	24,838	33,386	26,179
41	27,684	21,710	29,768	23,344	33,342	26,147	35,676	27,978
50	27,424	21,510	29,488	23,129	32,689	25,639	35,304	27,690
59	27,357	21,456	29,261	22,949	32,048	25,128	34,984	27,438
68	27,672	21,703	29,401	23,056	31,419	24,642	33,725	26,453
77	26,561	20,835	28,222	22,136	30,803	24,161	33,003	25,885
86	25,942	20,344	27,668	21,704	30,199	23,685	32,356	25,374
95	25,275	19,823	27,041	21,203	29,607	23,222	32,321	25,351
104	24,368	19,112	26,147	20,509	29,217	22,920	31,497	24,702
113	23,738	18,616	25,527	20,013	28,597	22,424	30,877	24,216
115	23,118	18,129	24,897	19,527	27,977	21,938	30,257	23,730

Heating Performance (BTU\h)

DB Outdoor Ambient Temperature (°F)	Indoor Entering Air Temperature (DB)			
	68°F	73°F	80°F	86°F
	TC	TC	TC	TC
-4	21,140	20,784	20,403	19,945
0	22,907	22,526	22,094	21,598
6	24,166	23,759	23,314	22,780
10	25,170	24,751	24,280	23,734
16	25,933	25,501	25,005	24,445
19	26,429	25,996	25,488	24,916
24	28,064	27,639	27,166	26,620
32	28,857	28,466	28,031	27,529
41	29,692	29,343	28,933	28,472
43	30,492	30,133	29,733	29,272
47	31,916	31,363	30,731	30,000
53	32,232	31,669	31,037	30,297
59	32,973	32,390	31,738	30,988
64	33,674	33,081	32,420	31,649
70	34,306	33,713	33,032	32,252
75	34,790	34,177	33,496	32,696

LEGEND

DB --- Dry Bulb

WB --- Wet Bulb

TC --- Total Net Cooling Capacity (BtuH)

SC --- Sensible Capacity (BtuH)

Input Power---(Watts)

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