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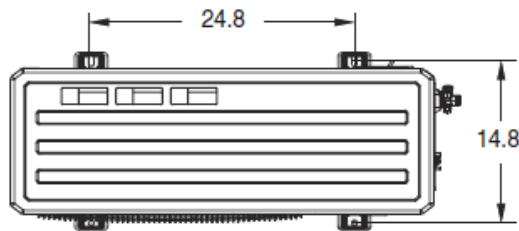
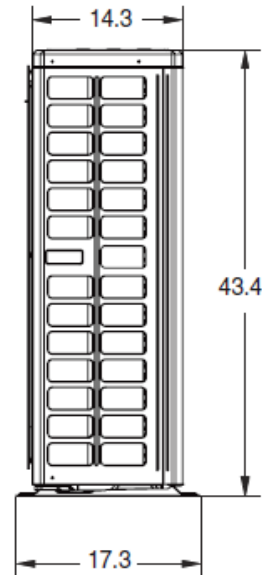
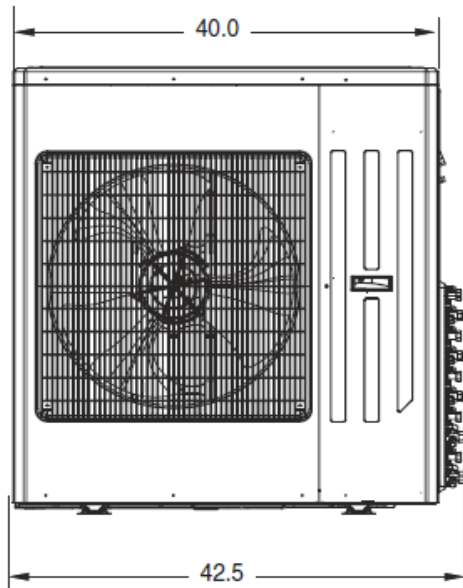
Submittal Data: TM42H30		42,000 BTU/H Wall Mounted Heat- Pump System	
Job Name	Location	Date	
Purchaser	Engineer		
Submitted To	For	<input type="checkbox"/> Reference	<input type="checkbox"/> Approval <input type="checkbox"/> Construction
Unit Designation	Schedule No.		
GENERAL FEATURES -Up to Five Indoor Units (5-Port) -G10 DC Inverter Technology -Quiet Operation - Both Indoor & Outdoor -Acrylic Resin/Anti-Corrosion -Intelligent Defrost -Auto Restart on Power Outages -Mult-point Diagnostics -Limited 5 yr Parts Warranty, 7 yr Compressor Warranty			
System Ratings		Outdoor Unit Data	
Non-Ducted Indoor Rated Cooling Capacity 39,000 BTUH Cooling Capacity (min-max) 8,871-40,944 BTUH Rated Heating Capacity 45,000 BTUH Heating Capacity (min-max) 8,871-46,062 BTUH SEER/EER 21/10.4 HSPF/COP 10.2/3.6 Ducted Indoor Rated Cooling Capacity 39,500 BTUH Cooling Capacity (min-max) 13,800-42,800 BTUH Rated Heating Capacity 46,500 BTUH Heating Capacity (min-max) 7,500-47,000 BTUH SEER/EER 14.7/9.8 HSPF/COP 9.6/3.1		Compressor Type DC Inverter Driven Rotary RLA 17.8 A Fan Motor Output Power 170 W FLA 0.8 A Air Flow (Max) 4,531 CFM Sound Pressure Cooling 61 db(A) Heating 61 db(A) Dimensions & Weights Unit Dimensions (LxHxD) 42.5 x 43.4 x 17.3 -in Weight (Net/Shipping) 198.0/216.0 LBS Min. Number of Indoor Units 2 Max. Number of Indoor Units 5	
Operating Range Cooling (min-max) 0 - 118°F -18 - 48°C Heating (min-max) - 4 - 86°F -20 - 30°C		Refrigerant Piping Data	
Power Supply Normal Operational Voltage 208/230 V, 1 Phase, 60 Hz Voltage Range 187 - 253 V Main Power Wire Size 8-2 AWG Interconnecting Cable Wire Size 14-4 AWG MCA 24.0 A MOCP/Breaker Size 40 A		Refrigerant Type R410A Refrigerant Charge 128.8 Additional Charge Per Line Length 0.21-oz/ft Connection Method Flared Factory Charge for Total Line Length 131-ft Total Refrigerant Pipe Length 246-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	



Units: inch

42,000 BTUH MODEL

Model#TM42H3O 42,000 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
Port E	3/8-in OD Flared

Liquid Line Port Size

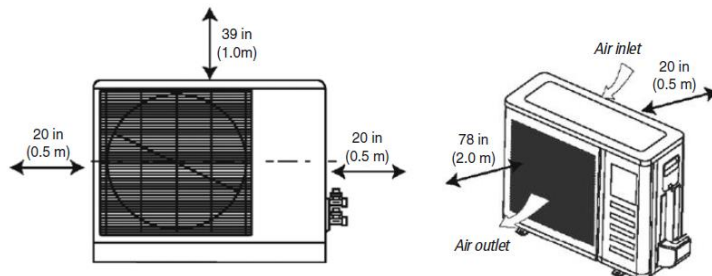
Port A	1/4-in OD Flared
Port B	1/4-in OD Flared
Port C	1/4-in OD Flared
Port D	1/4-in OD Flared
Port E	1/4-in OD Flared

Factory Supplied Piping Adapters

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

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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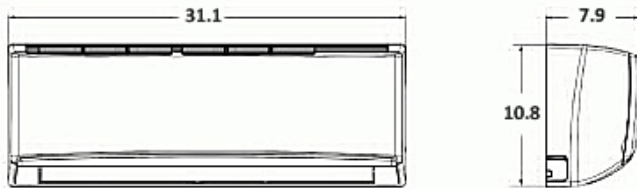
INDOOR DUCTLESS DIMENSIONAL SPECIFICATIONS

TM42H30

Units: inch

Entry level Series - 9,000 BTUH 230V

9,000 BTUH MODEL



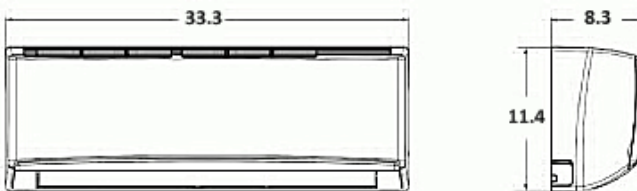
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

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



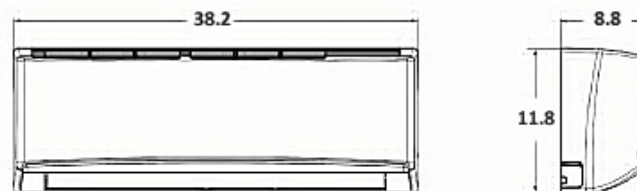
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

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



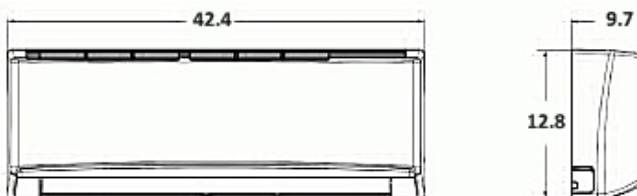
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

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.

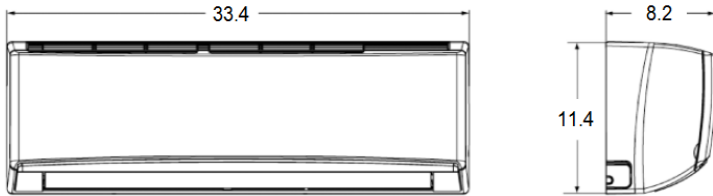
**Sound Power ratings are per AHRI 270 and AHRI 350

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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

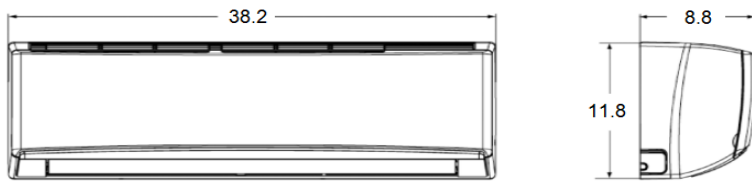
12,000 BTU	
Liquid Line Valve	1/4-in OD Flared
Suction/Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

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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COOLING CAPACITY (BTUH)

Indoor Units Combinations	Rated System (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)	Indoor Unit E (BtuH)
9+9	19,500	9,000	9,000	NA	NA	NA
9+12	21,000	9,000	12,000	NA	NA	NA
9+18	25,500	8,000	17,500	NA	NA	NA
9+24	26,300	7,000	19,300	NA	NA	NA
12+12	24,000	12,000	12,000	NA	NA	NA
12+18	28,400	11,400	17,000	NA	NA	NA
12+24	32,700	10,000	22,700	NA	NA	NA
18+18	31,680	15,840	15,840	NA	NA	NA
18+24	33,190	14,240	18,950	NA	NA	NA
24+24	35,120	17,560	17,560	NA	NA	NA
9+9+9	24,600	8,200	8,200	8,200	NA	NA
9+9+12	24,900	7,500	7,500	9,900	NA	NA
9+9+18	30,200	7,200	7,200	15,800	NA	NA
9+9+24	34,900	6,600	6,600	21,700	NA	NA
9+12+12	29,600	8,000	10,800	10,800	NA	NA
9+12+18	32,900	7,400	9,800	15,700	NA	NA
9+12+24	36,100	6,800	9,100	20,200	NA	NA
9+18+18	36,100	6,500	14,800	14,800	NA	NA
12+12+12	31,200	10,400	10,400	10,400	NA	NA
12+12+18	35,100	9,960	9,960	15,180	NA	NA
12+12+24	37,500	9,300	9,300	18,900	NA	NA
12+18+18	37,500	8,900	14,300	14,300	NA	NA
9+9+9+9	35,480	8,870	8,870	8,870	8,870	NA
9+9+9+12	36,490	8,460	8,460	8,460	11,110	NA
9+9+9+18	38,350	7,650	7,650	7,650	15,400	NA
9+9+12+12	39,000	8,300	8,300	11,200	11,200	NA
9+9+12+18	39,840	7,470	7,470	9,960	14,940	NA
9+12+12+12	39,280	7,000	10,760	10,760	10,760	NA
9+12+12+18	40,010	6,760	9,600	9,600	14,050	NA
12+12+12+12	39,800	9,950	9,950	9,950	9,950	NA
9+9+9+9+9	39,600	7,920	7,920	7,920	7,920	7,920
9+9+9+9+12	39,700	7,430	7,430	7,430	7,430	9,980

Note:

1) It is critical to size the outdoor unit for the entire building load and each indoor unit for it's individual zone load.
Cooling Nominal Test Conditions: Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

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HEATING CAPACITY (BTUH)

Indoor Units Combinations	Rated System (BtuH)	Indoor Unit A (BtuH)	Indoor Unit B (BtuH)	Indoor Unit C (BtuH)	Indoor Unit D (BtuH)	Indoor Unit E (BtuH)
9+9	32,500	9,500	9,500	NA	NA	NA
9+12	35,500	9,500	13,000	NA	NA	NA
9+18	46,300	9,300	18,500	NA	NA	NA
9+24	51,200	8,000	21,600	NA	NA	NA
12+12	39,000	13,000	13,000	NA	NA	NA
12+18	47,000	12,000	17,500	NA	NA	NA
12+24	58,400	11,200	23,600	NA	NA	NA
18+18	52,000	17,400	17,300	NA	NA	NA
18+24	59,400	16,200	21,600	NA	NA	NA
24+24	57,600	19,200	19,200	NA	NA	NA
9+9+9	36,000	9,000	9,000	9,000	NA	NA
9+9+12	37,800	9,000	9,000	10,800	NA	NA
9+9+18	43,800	8,800	8,800	17,400	NA	NA
9+9+24	47,500	7,900	7,900	23,800	NA	NA
9+12+12	45,000	9,000	12,000	12,000	NA	NA
9+12+18	47,350	8,650	11,200	16,300	NA	NA
9+12+24	51,180	7,900	10,240	22,800	NA	NA
9+18+18	57,750	7,560	16,730	16,730	NA	NA
12+12+12	48,000	12,000	12,000	12,000	NA	NA
12+12+18	51,500	11,400	11,400	17,300	NA	NA
12+12+24	53,120	10,620	10,620	21,260	NA	NA
12+18+18	58,685	10,130	16,185	16,185	NA	NA
9+9+9+9	55,000	11,000	11,000	11,000	11,000	NA
9+9+9+12	54,460	10,260	10,260	10,260	13,420	NA
9+9+9+18	53,880	8,920	8,920	8,920	18,200	NA
9+9+12+12	54,630	9,630	9,630	12,870	12,870	NA
9+9+12+18	54,150	8,550	8,550	11,400	17,100	NA
9+12+12+12	57,680	8,120	12,390	12,390	12,390	NA
9+12+12+18	56,250	8,010	10,680	10,680	16,200	NA
12+12+12+12	57,350	11,470	11,470	11,470	11,470	NA
9+9+9+9+9	54,600	9,100	9,100	9,100	9,100	9,100
9+9+9+9+12	54,180	8,540	8,540	8,540	8,540	11,480

Note:

1) It is critical to size the outdoor unit for the entire building load and each indoor unit for it's individual zone load.
 Cooling Nominal Test Conditions: Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

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EXTENDED RATINGS

TM42H30

Cooling Performance (BTU/h)	DB Outdoor Ambient Temperature (°F)	Indoor Enterring 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	25,806	20,239	27,453	21,523	31,403	24,631	32,031	25,123	
5	26,604	20,869	28,302	22,188	32,375	25,398	33,346	26,160	
14	27,994	21,955	29,573	23,185	33,376	26,177	34,722	27,229	
23	28,667	22,487	30,662	24,052	35,133	27,555	36,650	28,746	
32	30,386	23,827	32,673	25,621	36,982	28,999	38,979	30,565	
41	32,322	25,347	34,755	27,255	38,928	30,528	41,653	32,665	
50	32,018	25,113	34,428	27,003	38,165	29,934	41,218	32,328	
59	31,940	25,050	34,163	26,793	37,416	29,338	40,845	32,035	
68	32,308	25,339	34,327	26,919	36,683	28,771	39,375	30,884	
77	31,011	24,326	32,949	25,844	35,964	28,209	38,532	30,221	
86	30,289	23,752	32,303	25,340	35,258	27,653	37,777	29,625	
95	29,509	23,144	31,571	24,755	34,567	27,112	37,736	29,598	
104	28,450	22,314	30,528	23,945	34,112	26,760	36,773	28,841	
113	27,714	21,734	29,804	23,366	33,388	26,180	36,050	28,273	
115	26,991	21,167	29,069	22,798	32,664	25,613	35,326	27,706	

Heating Performance (BTU/h)	DB Outdoor Ambient Temperature (°F)	Indoor Enterring Air Temperature (DB)			
		68°F	73°F	80°F	86°F
		TC	TC	TC	TC
-4	30,105	29,598	29,055	28,403	
0	32,621	32,078	31,463	30,757	
6	34,413	33,834	33,200	32,440	
10	35,843	35,246	34,576	33,798	
16	36,930	36,314	35,608	34,812	
19	37,636	37,020	36,296	35,481	
24	39,964	39,359	38,685	37,908	
32	41,094	40,538	39,918	39,202	
41	42,283	41,786	41,202	40,545	
43	43,422	42,911	42,341	41,684	
47	45,450	44,663	43,763	42,722	
53	45,900	45,098	44,198	43,144	
59	46,955	46,125	45,197	44,128	
64	47,953	47,109	46,167	45,070	
70	48,853	48,009	47,039	45,928	
75	49,542	48,670	47,700	46,561	

LEGEND

- DB --- Dry Bulb
- WB --- Wet Bulb
- TC --- Total Net Cooling Capacity (BtuH)
- SC --- Sensible Capacity (BtuH)
- Input Power---(Watts)

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