

**Submittal Data: TM24H20** 24,000 BTU/H Heat- Pump System

Job Name \_\_\_\_\_ Location \_\_\_\_\_ Date \_\_\_\_\_

Purchaser \_\_\_\_\_ Engineer \_\_\_\_\_

Submitted To \_\_\_\_\_ For  Reference  Approval  Construction

Unit Designation \_\_\_\_\_ Schedule No. \_\_\_\_\_

**GENERAL FEATURES**

- Up to 3 Indoor Units Comfort (3-Port)
- G10 DC Inverter Technology
- Quiet Operation - Both Indoor & Outdoor
- Wireless Remote Controller
- Optional Wired Remote Controller (PN: MC207059)
- Gold Fin Coil Coating
- Intelligent Defrost
- Auto Restart on Power Outages



**System Ratings**

<b>Cooling</b>	
Rated Capacity	26,000 BTU/H
Capacity Range	7,500-33,000 BTU/H
Power Input (Max)	3,050 W
SEER	16

**Outdoor Unit Data**

<b>Compressor</b>	Type	DC Inverter Driven Rotary
	RLA	14.7A
<b>Fan Motor</b>	Output Power	60 W
	FLA	0.5 A
	Air Flow (Max)	1,942 CFM
<b>Sound Power (Per AHRI 270 and AHRI 350)</b>		
	Cooling	66 db(A)
	Heating	66 db(A)
<b>Dimensions &amp; Weights</b>		
	Unit Dimensions (LxHxD)	37.2 x 27.6 x 15.6 -in
	Weight (Net/Shipping)	134/146 LBS
	Min. Number of Indoor Units	2
	Max. Number of Indoor Units	3

<b>Heating at 47° F</b>	
Rated Capacity	29,000 BTU/H
Capacity Range	7,500-35,000 BTU/H
Input Power (Max)	2,800 W
HSPF	8.2
COP	3.0

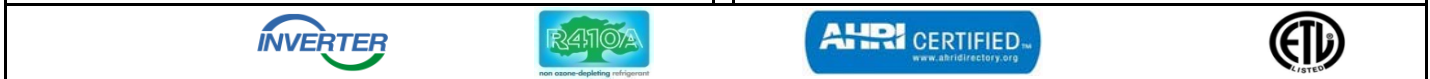
<b>Heating at 17° F</b>	
Rated Capacity	17,000 BTU/H

<b>Operating Range</b>		
Cooling	(Max)	118°F (48 C)
	(Min)	23°F (-5 C)
Heating	(Max)	80°F (27 C)
	(Min)	5°F (-15 C)

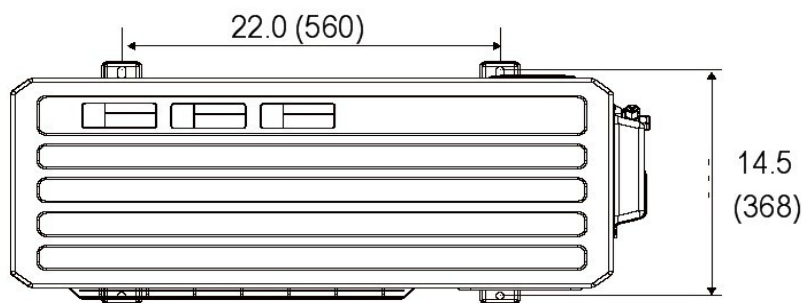
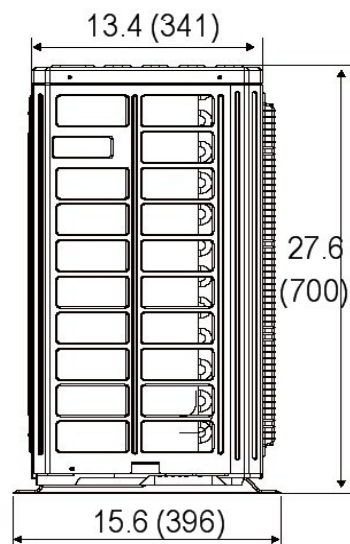
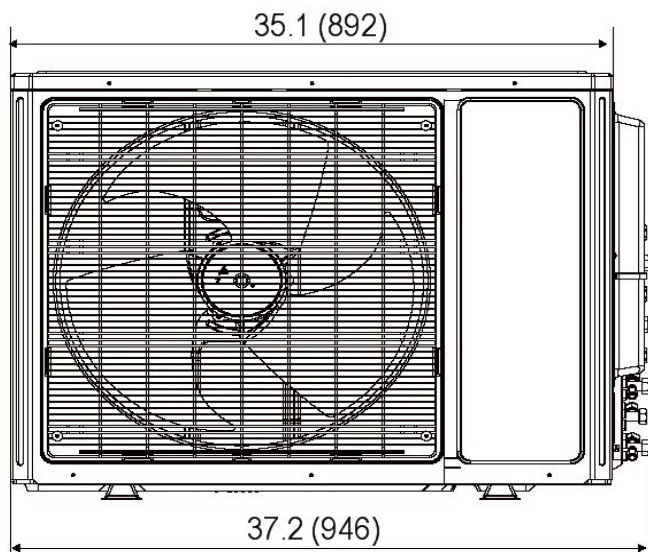
<b>Power Supply</b>	
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
Voltage Range	187 - 253 V
Main Power Wire Size	10-2 AWG
Interconnecting Cable Wire Size	14-4 AWG
MCA	20.0 A
MOCP/Breaker Size	30 A

**Refrigerant Piping Data**

Connection Method	Flared
Refrigerant Type	R410A
Factory Charge for Total Line Length	98-ft
Additional Charge Per Line Length	0.2-oz/ft
Total Refrigerant Pipe Length	230-ft
Max Refrigerant Piping Length to any Indoor Unit	66-ft
Min Refrigerant Piping Length to any Indoor Unit	10-ft
Max Elevation between Indoor Units	33-ft
Max Lift from Outdoor to Indoor Unit	33-ft
Max Drop from Outdoor to Indoor Unit	33-ft



Units: inch (mm)



**Suction/Gas Line Port Size**

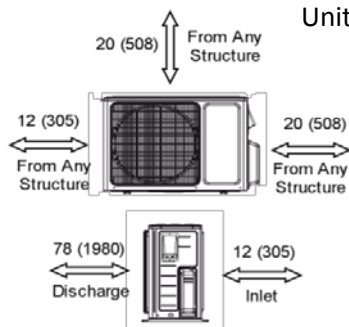
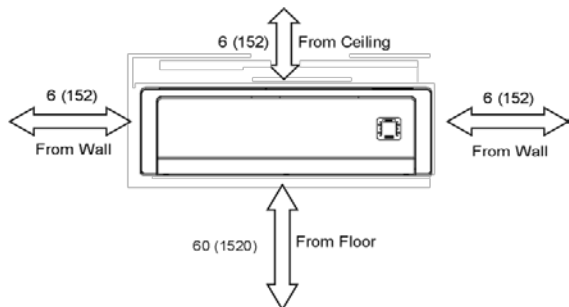
Port #1	3/8-in OD Flared
Port #2	3/8-in OD Flared
Port #3	3/8-in OD Flared

**Liquid Line Port Size**

Port #1	1/4-in OD Flared
Port #2	1/4-in OD Flared
Port #3	1/4-in OD Flared

**MINIMUM SPACING REQUIREMENTS**

Units: inch (mm)



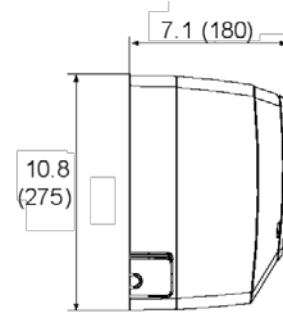
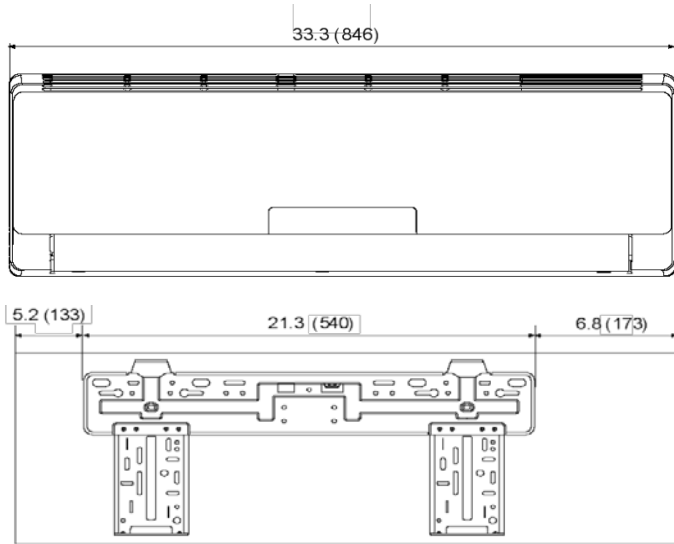
**Notes:**

1. Recommended Interconnecting Cable Type Stranded Bare 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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Units: inch (mm)

**9,000 AND 12,000 BTUH MODELS**



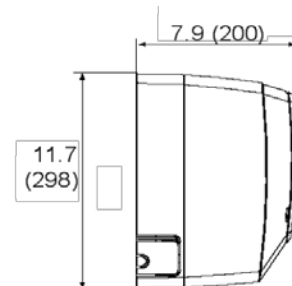
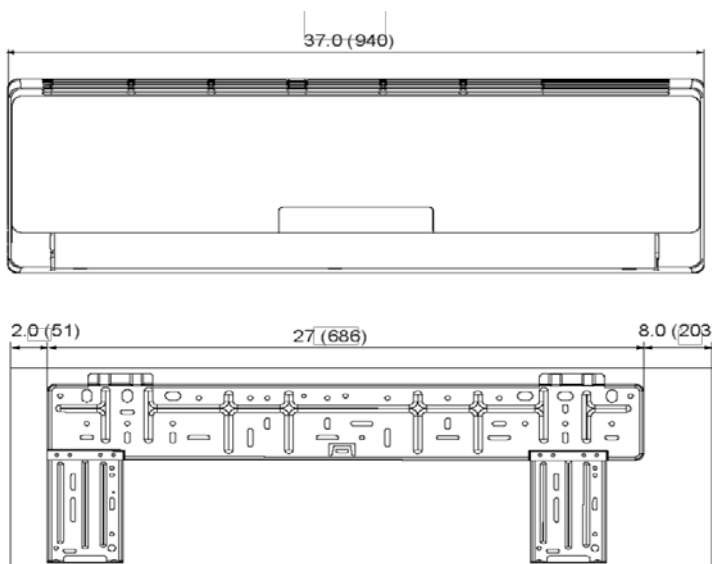
Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

*Note: Size Refrigerant lines based on evaporator port sizes.*

Indoor Capacity Size	Fan (watts)	CFM (High)	Sound Power (Low/High)**
9,000 BTUH	20	330	26/41
12,000 BTUH	20	341	28/42

Units: inch (mm)

**18,000 BTUH MODEL**



Liquid Line Valve	1/4-in OD Flared
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	Fan (watts)	CFM (High)	Sound Power (Low/High)**
18,000 BTUH	20	500	35/46

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

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**COOLING CAPACITY (BTUH)**

Indoor Combinations	Indoor Unit A	Indoor Unit B	Indoor Unit C	Indoor Unit D	Indoor Unit E
9K + 18K	8,400	16,600			
12K + 12K	12,000	12,000			
12K + 18K	10,000	15,000			
18K+ 18K	12,750	12,750			
9K + 9K + 9K	8,667	8,667	8,667		
9K + 9K + 12K	8,000	8,000	10,000		
9K + 9K + 18K	7,000	7,000	12,000		
9K + 12K + 12K	6,000	10,000	10,000		
12K + 12K + 12K	8,667	8,667	8,667		

**HEATING CAPACITY (BTUH)**

Indoor Combinations	Indoor Unit A	Indoor Unit B	Indoor Unit C	Indoor Unit D	Indoor Unit E
9K + 18K	9,000	18,000			
12K + 12K	13,000	13,000			
12K + 18K	11,200	16,800			
18K+ 18K	14,250	14,250			
9K + 9K + 9K	9,667	9,667	9,667		
9K + 9K + 12K	9,000	9,000	11,000		
9K + 9K + 18K	6,000	6,000	17,000		
9K + 12K + 12K	6,000	11,500	11,500		
12K + 12K + 12K	9,667	9,667	9,667		

Capacity data is based on the following conditions :

**Cooling Norminal Test Conditions**

Indoor: 80°F DB/67°F WB

Outdoor: 95°F DB/75°F WB

**Heating Norminal Test Conditions**

Indoor: 70°F DB/60°F WB

Outdoor: 47°F DB/43°F W