

Submittal Data: TM36H20 36,000 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 4 Indoor Units Comfort (4-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

Cooling	
Rated Capacity	34,000 BTU/H
Capacity Range	8,530-34,120 BTU/H
Power Input (Max)	4,300 W
SEER	16

Outdoor Unit Data

Compressor	Type	DC Inverter Driven Rotary
	RLA	21.0 A
Fan Motor	Output Power	120 W
	FLA	0.7 A
	Air Flow (Max)	2,177 CFM

Heating at 47° F	
Rated Capacity	35,800 BTU/H
Capacity Range	10,662-40,944 BTU/H
Input Power (Max)	3,600 W
HSPF	8.2
COP	2.9

Sound Power (Per AHRI 270 and AHRI 350)	
Cooling	69 db(A)
Heating	69 db(A)

Heating at 17° F	
Rated Capacity	22,000 BTU/H

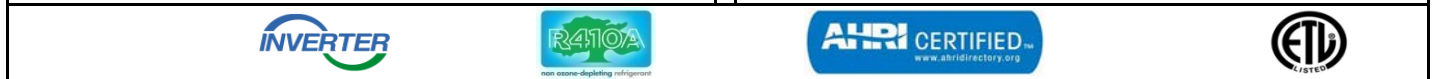
Dimensions & Weights	
Unit Dimensions (LxHxD)	39.1 x 31.0 x 16.8 -in
Weight (Net/Shipping)	165/153 LBS
Min. Number of Indoor Units	3
Max. Number of Indoor Units	4

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

Refrigerant Piping Data

Connection Method	Flared
Refrigerant Type	R410A
Factory Charge for Total Line Length	130-ft
Additional Charge Per Line Length	0.2-oz/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	50-ft
Max Lift from Outdoor to Indoor Unit	50-ft

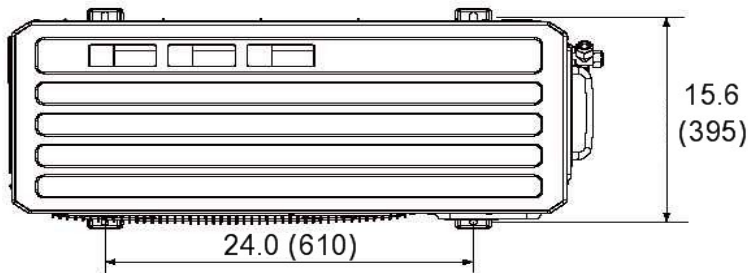
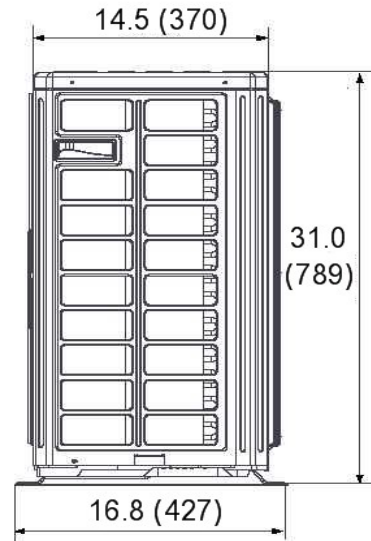
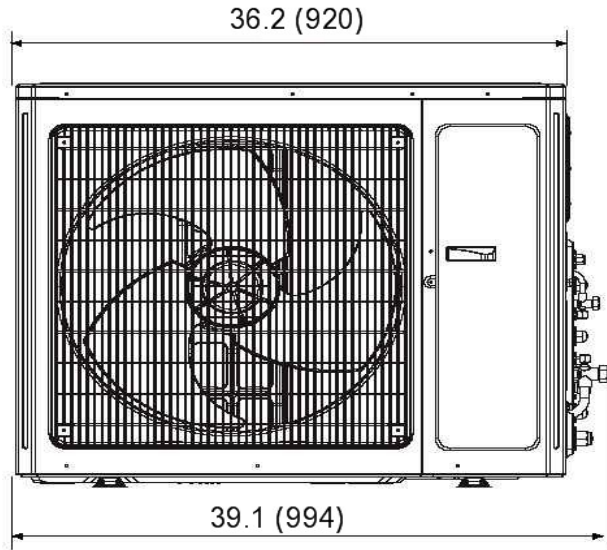
Power Supply	
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
Voltage Range	187 - 253 V
Main Power Wire Size	8-2 AWG
Interconnecting Cable Wire Size	14-4 AWG
MCA	28.0 A
MOCP/Breaker Size	45 A



OUTDOOR UNIT DIMENSIONAL SPECIFICATIONS

TM36H20

Units: inch (mm)



Suction/Gas Line Port Size

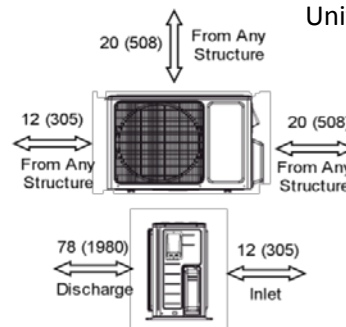
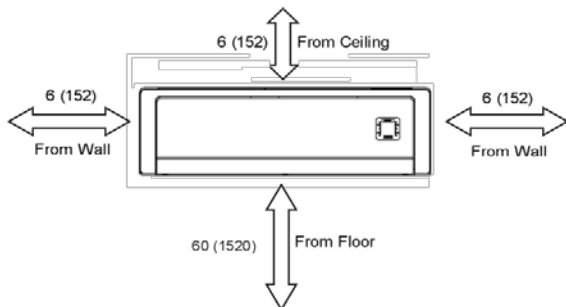
Port #1	3/8-in OD Flared
Port #2	3/8-in OD Flared
Port #3	1/2-in OD Flared
Port #4	5/8-in OD Flared

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
Port #4	3/8-in OD Flared

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)



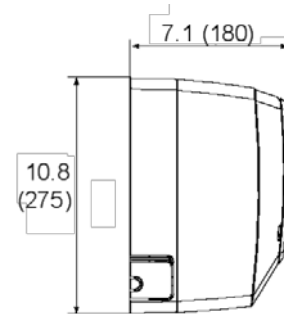
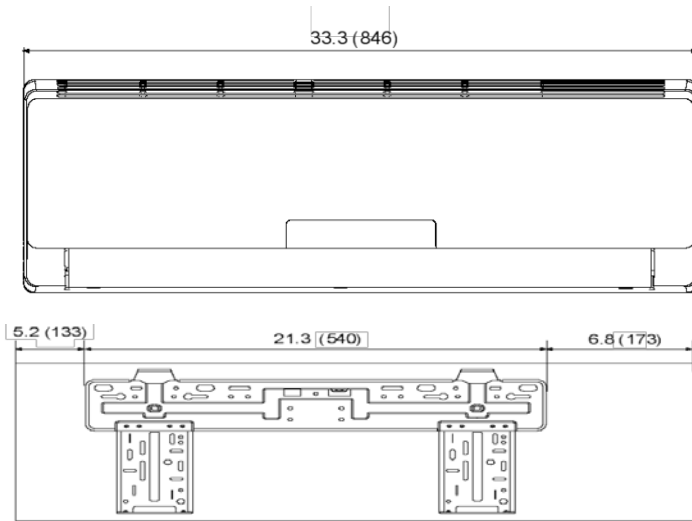
Notes:

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



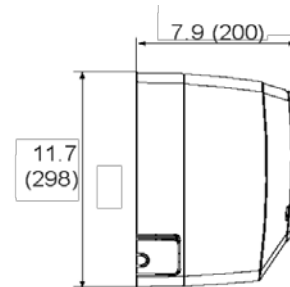
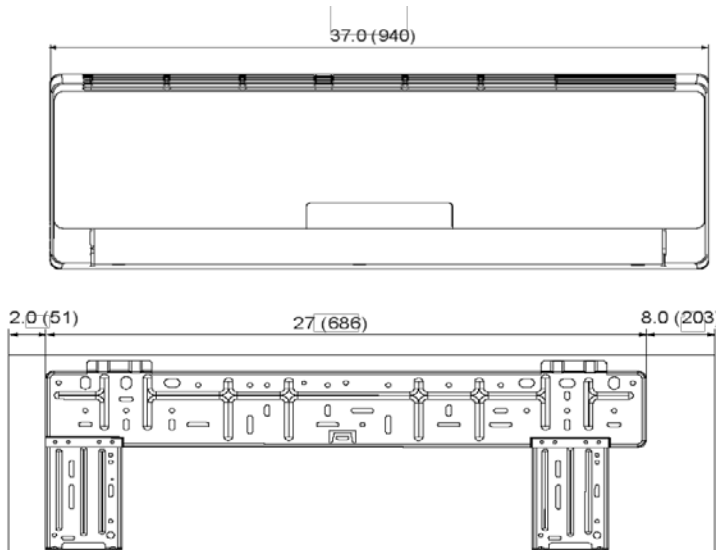
Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

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
18K + 18K	16,207	16,207			
9K + 9K + 9K	8,189	8,189	8,189		
9K + 9K + 12K	6,995	7,336	10,236		
9K + 9K + 18K	7,165	7,165	15,354		
9K + 12K + 12K	7,506	11,089	11,089		
9K + 12K + 18K	6,142	10,065	13,477		
9K + 18K + 18K	5,971	11,771	11,771		
12K + 12K + 12K	9,895	9,895	9,895		
12K + 12K + 18K	8,530	8,530	12,624		
12K + 18K + 18K	9,212	12,283	12,283		
18K + 18K + 18K	9,895	9,895	9,895		
9K + 9K + 9K + 9K	8,359	8,359	8,359	8,359	
9K + 9K + 9K + 12K	7,506	7,506	7,506	10,918	
9K + 9K + 9K + 18K	6,824	6,824	6,824	12,283	
9K + 9K + 12K + 12K	6,824	6,824	9,895	9,895	
9K + 9K + 12K + 18K	6,312	6,312	8,871	12,283	
9K + 9K + 18K + 18K	5,459	5,459	11,260	11,260	
9K + 9K + 12K + 12K	7,848	8,530	8,530	8,530	
9K + 12K + 12K + 18K	6,142	7,506	7,506	12,283	
12K + 12K + 12K + 12K	8,359	8,359	8,359	8,359	

HEATING CAPACITY (BTUH)

Indoor Combinations	Indoor Unit A	Indoor Unit B	Indoor Unit C	Indoor Unit D	Indoor Unit E
18K + 18K	16,378	16,378			
9K + 9K + 9K	9,008	9,008	9,008		
9K + 9K + 12K	7,694	8,069	11,260		
9K + 9K + 18K	8,598	8,598	18,425		
9K + 12K + 12K	9,008	13,307	13,307		
9K + 12K + 18K	7,370	12,078	16,173		
9K + 18K + 18K	7,165	14,126	14,126		
12K + 12K + 12K	11,874	11,874	11,874		
12K + 12K + 18K	10,236	10,236	15,149		
12K + 18K + 18K	11,055	14,740	14,740		
18K + 18K + 18K	11,874	11,874	11,874		
9K + 9K + 9K + 9K	10,031	10,031	10,031	10,031	
9K + 9K + 9K + 12K	9,008	9,008	9,008	13,102	
9K + 9K + 9K + 18K	8,189	8,189	8,189	14,740	
9K + 9K + 12K + 12K	8,189	8,189	11,874	11,874	
9K + 9K + 12K + 18K	7,575	7,575	10,645	14,740	
9K + 9K + 18K + 18K	6,551	6,551	13,512	13,512	
9K + 9K + 12K + 12K	9,417	10,236	10,236	10,236	
9K + 12K + 12K + 18K	7,370	9,008	9,008	14,740	
12K + 12K + 12K + 12K	10,031	10,031	10,031	10,031	

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

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