

Basefit Series 5-12.5 Tons
Rooftop Package (Cooling & Gas)

208/230V, 3Ph, 60Hz

460V, 3Ph, 60Hz

Model:

MRB-050V90(140)GWN10-X(G) **MRB-075S125(180/225)GWN10-X(G)**

MRB-100S180(225/250)GWN10-X(G) **MRB-125S180(225/250)GWN10-X(G)**

MRB-050V90(140)GWN10-Z(G) **MRB-075S125(180/225)GWN10-Z(G)**

MRB-100S180(225/250)GWN10-Z(G) **MRB-125S180(225/250)GWN10-Z(G)**

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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

Unit Performance and Data:

Model	MRB-050V90(140)GWN10-X(G)	MRB-050V90(140)GWN10-Z(G)
POWER SUPPLY	208/230V,60Hz,3Ph	460V,60Hz,3Ph
NOMINAL CAPACITY		
Cooling Rated Capacity (BTU/h)	58,000	58,000
Rated EER (Btu/h.W)	11	11
SEER2	13.4	13.4
INDOOR AIR FLOW		
ESP (Pa)	0 -250	0 -250
Air Volume (CFM)	1,800	1,800
SOUND LEVEL (dB(A))	82	82
REFRIGERANT		
Type	R454B	R454B
Volume (lbs-oz)	3.26	3.26
Volume (kg)	1.48	1.48
COMPRESSOR		
Type	Scroll	Scroll
Quantity	1	1
Operation Ambient Temperature		
°F	0~125.6	0~125.6
°C	-17.8~52	-17.8~52
INDOOR COIL		
Type	Tube-fin	Tube-fin
INDOOR FAN		
Type	Centrifugal	Centrifugal
Motor type	ECM	Direct
Drive type	Direct	ECM
Quantify	1	1
OUTDOOR COIL		
Type	Microchannel	Microchannel
OUTDOOR FAN		
Type	Axial	Axial
Motor type	DC	DC
Drive type	Direct	Direct
Quantify	1	1
WEIGHT		
Net(kg)	252/257	254/259
Net(lbs)	555.5/566.5	559.9/570.9
Gross(kg)	270/275	272/277
Gross(lbs)	595.1/606.2	599.6/610.6
Threaded Drain Pipe Connection	3/4 NPT	3/4 NPT
SHIPPING PER STD 40HQ	34	34

Features:

- Ambient temp range 0~125°F.
- Customizable high static pressure motor, with a maximum static pressure up to 500Pa.
- Constant airflow technology enables adaptive duct static pressure adjustment (5 Ton model only).
- Eco-friendly R454B refrigerant with low GWP value.
- DC outdoor fan motor design, maintaining head pressure, improving system reliability, especially in low ambient conditions.
- Curb fit: Designed as a direct replacement utilizing the same footprint as competitors
- Interchangeable side and bottom discharge for flexible installation.
- The compressor, control box, and motor can be maintained on the same side of the unit. Flip-over design control box for easy maintenance

Model	MRB-075S125(180/225)GWN10-X(G)	MRB-075S125(180/225)GWN10-Z(G)
POWER SUPPLY	208/230V,60Hz,3Ph	460V,60Hz,3Ph
NOMINAL CAPACITY		
Cooling Rated Capacity (BTU/h)	90,000	90,000
Rated EER (Btu/h.W)	11.4	11.4
IEER	14.6	14.6
INDOOR AIR FLOW		
ESP (Pa)	0 -250	0 -250
Air Volume (CFM)	3,000	3,000
SOUND LEVEL (dB(A))	83	83
REFRIGERANT		
Type	R454B	R454B
Volume (lbs-oz)	3.75 + 3.09	3.75 + 3.09
Volume (kg)	1.7+1.4	1.7+1.4
COMPRESSOR		
Type	Scroll	Scroll
Quantity	2	2
Operation Ambient Temperature		
°F	0~125.6	0~125.6
°C	-17.8~52	-17.8~52
INDOOR COIL		
Type	Microchannel	Microchannel
INDOOR FAN		
Type	Centrifugal	Centrifugal
Motor type	PSC	Belt
Drive type	Belt	PSC
Quantify	1	1
OUTDOOR COIL		
Type	Microchannel	Microchannel
OUTDOOR FAN		
Type	Axial	Axial
Motor type	DC	DC
Drive type	Direct	Direct
Quantify	2	2
WEIGHT		
Net(kg)	465/475/480	465/475/480
Net(lbs)	1025/1047/1058	1025/1047/1058
Gross(kg)	493/503/508	493/503/508
Gross(lbs)	1087/1109/1120	1087/1109/1120
Threaded Drain Pipe Connection	3/4 NPT	3/4 NPT
SHIPPING PER STD 40HQ	14	14

Features:

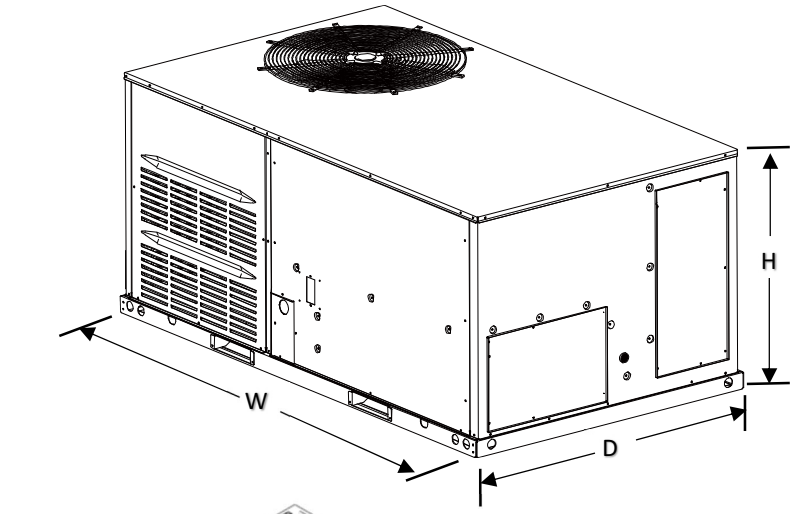
- All units equipped with refrigerant filter drier, effectively isolating moisture and impurities in the refrigerant system.
- Gas pipe maintenance is more flexible, can directly move out follow the guide rail.

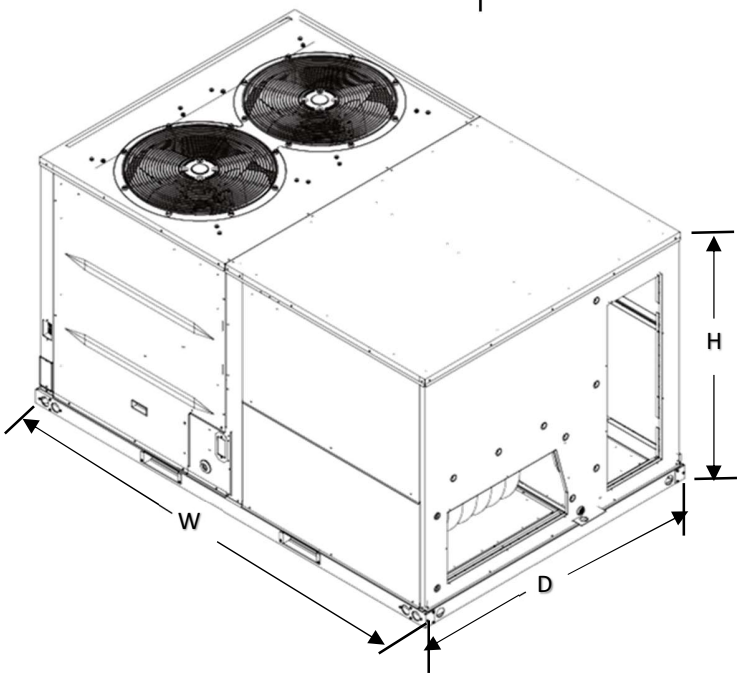
Model	MRB-100S180(225/250)GWN10-X(G)	MRB-100S180(225/250)GWN10-Z(G)
POWER SUPPLY	208/230V,60Hz,3Ph	460V,60Hz,3Ph
NOMINAL CAPACITY		
Cooling Rated Capacity (BTU/h)	120,000	120,000
Rated EER (Btu/h.W)	11	11
IEER	14.6	14.6
INDOOR AIR FLOW		
ESP (Pa)	0 -250	0 -250
Air Volume (CFM)	3,600	3,600
SOUND LEVEL (dB(A))	84	84
REFRIGERANT		
Type	R454B	R454B
Volume (lbs-oz)	5.07 + 4.41	5.07 + 4.41
Volume (kg)	2.3+2.0	2.3+2.0
COMPRESSOR		
Type	Scroll	Scroll
Quantity	2	2
Operation Ambient Temperature		
°F	0~125.6	0~125.6
°C	-17.8~52	-17.8~52
INDOOR COIL		
Type	Microchannel	Microchannel
INDOOR FAN		
Type	Centrifugal	Centrifugal
Drive type	PSC	PSC
Motor type	Belt	Belt
Quantify	1	1
OUTDOOR COIL		
Type	Microchannel	Microchannel
OUTDOOR FAN		
Type	Axial	Axial
Motor type	DC	DC
Drive type	Direct	Direct
Quantify	2	2
WEIGHT		
Net(kg)	495/500/500	496/501/501
Net(lbs)	1092/1103/1103	1093/1104/1104
Gross(kg)	523/528/528	524/529/529
Gross(lbs)	1153/1164/1164	1155/1165/1165
Threaded Drain Pipe Connection	3/4 NPT	3/4 NPT
SHIPPING PER STD 40HQ	14	14

Model	MRB-125S180(225/250)GWN10-X(G)	MRB-125S180(225/250)GWN10-Z(G)
POWER SUPPLY	208/230V,60Hz,3Ph	460V,60Hz,3Ph
NOMINAL CAPACITY		
Cooling Rated Capacity (BTU/h)	140,000	140,000
Rated EER (Btu/h.W)	10.8	10.8
IEER	14	14
INDOOR AIR FLOW		
ESP (Pa)	0 -250	0 -250
Air Volume (CFM)	4,000	4,000
SOUND LEVEL (dB(A))	89	89
REFRIGERANT		
Type	R454B	R454B
Volume (lbs-oz)	6.83 + 5.07	6.83 + 5.07
Volume (kg)	3.1+2.3	3.1+2.3
COMPRESSOR		
Type	Scroll	Scroll
Quantity	2	2
Operation Ambient Temperature		
°F	0~125.6	0~125.6
°C	-17.8~52	-17.8~52
INDOOR COIL		
Type	Microchannel	Microchannel
INDOOR FAN		
Type	Centrifugal	Centrifugal
Motor type	PSC	PSC
Drive type	Belt	Belt
Quantify	1	1
OUTDOOR COIL		
Type	Microchannel	Microchannel
OUTDOOR FAN		
Type	Axial	Axial
Motor type	DC	DC
Drive type	Direct	Direct
Quantify	2	2
WEIGHT		
Net(kg)	540/545/545	544/549/549
Net(lbs)	1190/1201/1201	1198/1209/1209
Gross(kg)	568/573/573	572/577/577
Gross(lbs)	1252/1263/1263	1261/1272/1272
Threaded Drain Pipe Connection	3/4 NPT	3/4 NPT
SHIPPING PER STD 40HQ	14	14

Dimensions:

Unit: in(mm)

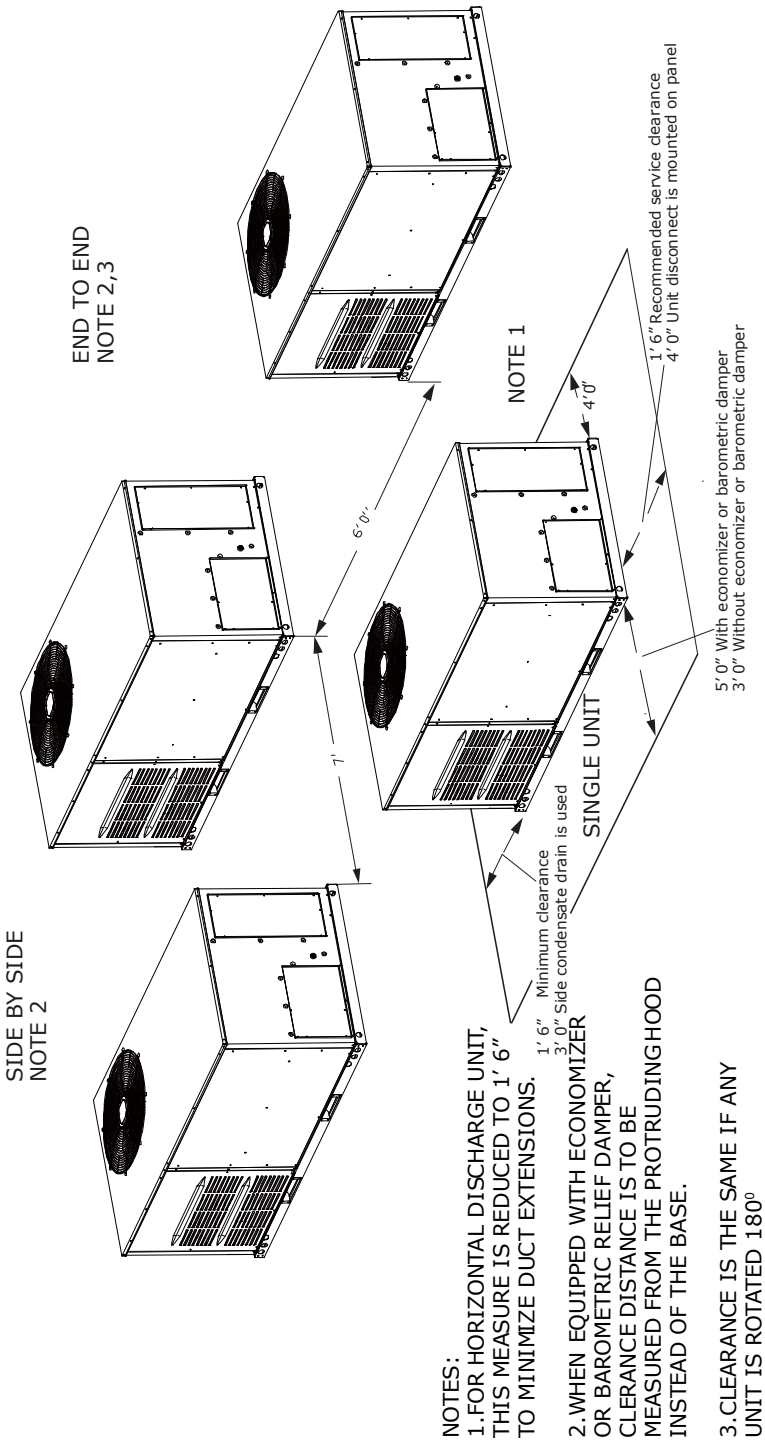




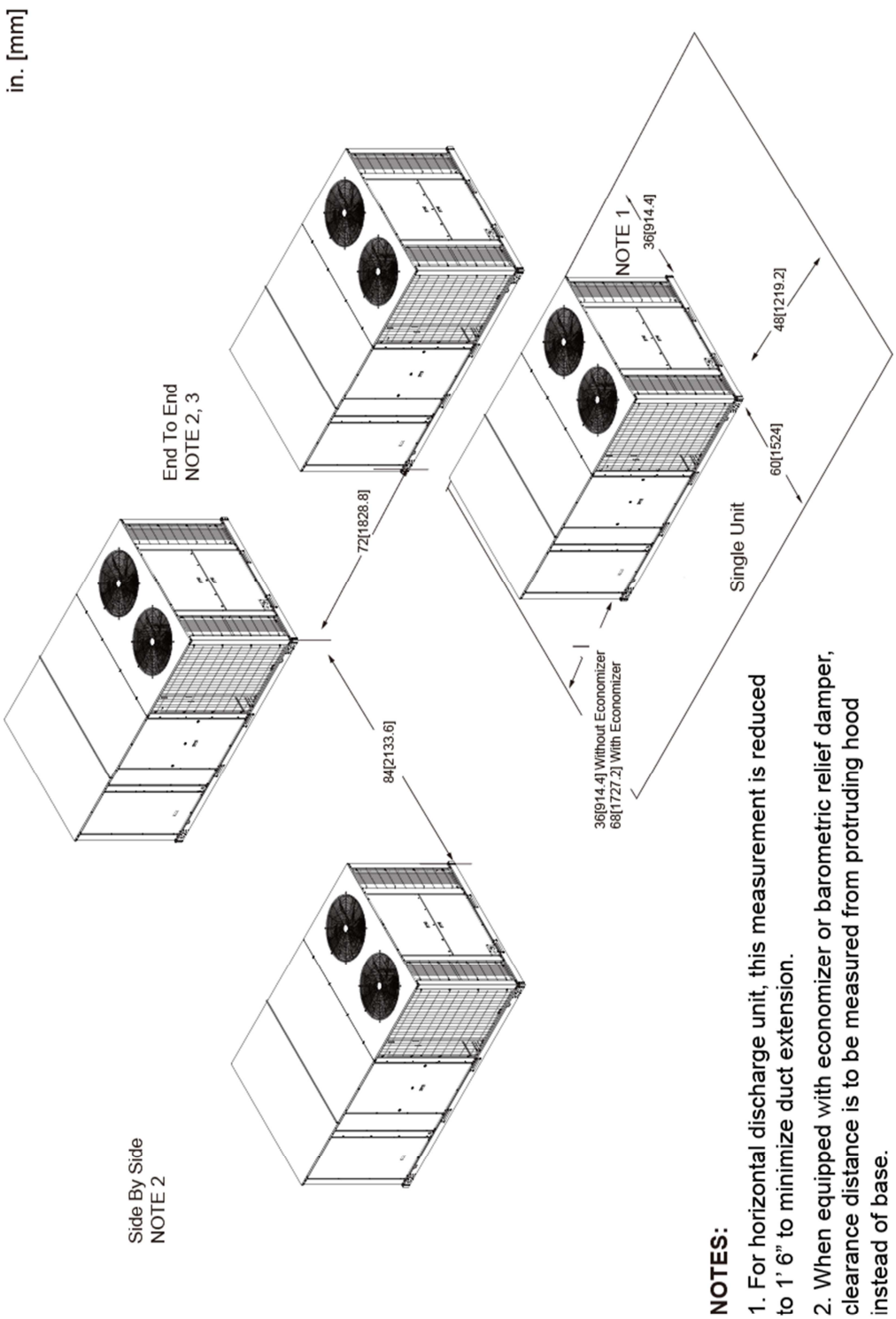
Model Size	Unit Width "W" in. [mm]	Unit Height "H" in. [mm]	Unit Length "D" in. [mm]
50	76-3/16 [1935]	33-15/16 [862]	45-1/16 [1145]
75/100/125	88-7/16 [2246]	48-3/4 [1238]	58-7/8 [1495]

Installation Space Requirements:

5Ton



7.5-12.5Ton



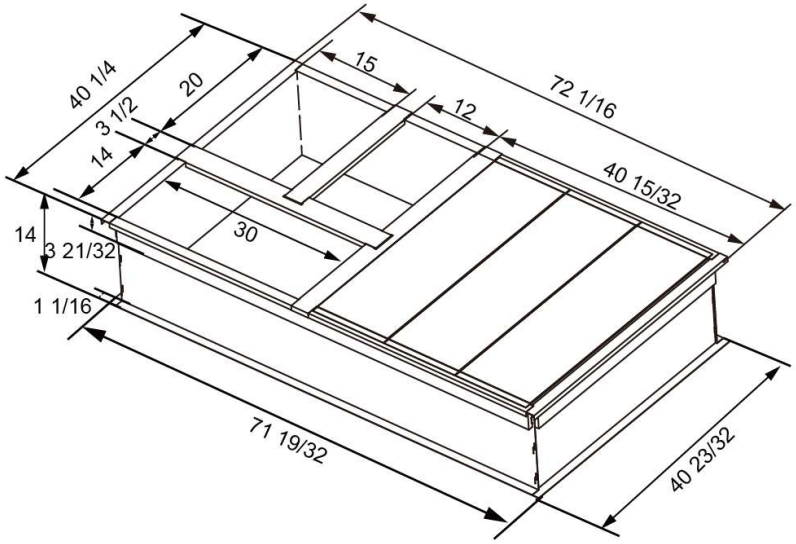
NOTES:

1. For horizontal discharge unit, this measurement is reduced to 1' 6" to minimize duct extension.
2. When equipped with economizer or barometric relief damper, clearance distance is to be measured from protruding hood instead of base.
3. Clearance is the same if any unit is rotated 180°.
4. Additional clearance required when barometric damper or economizer is installed.
5. A 10' ft. clearance from exhaust outlets for applications using fresh air or economizers should be observed.

Curb Dimensions:

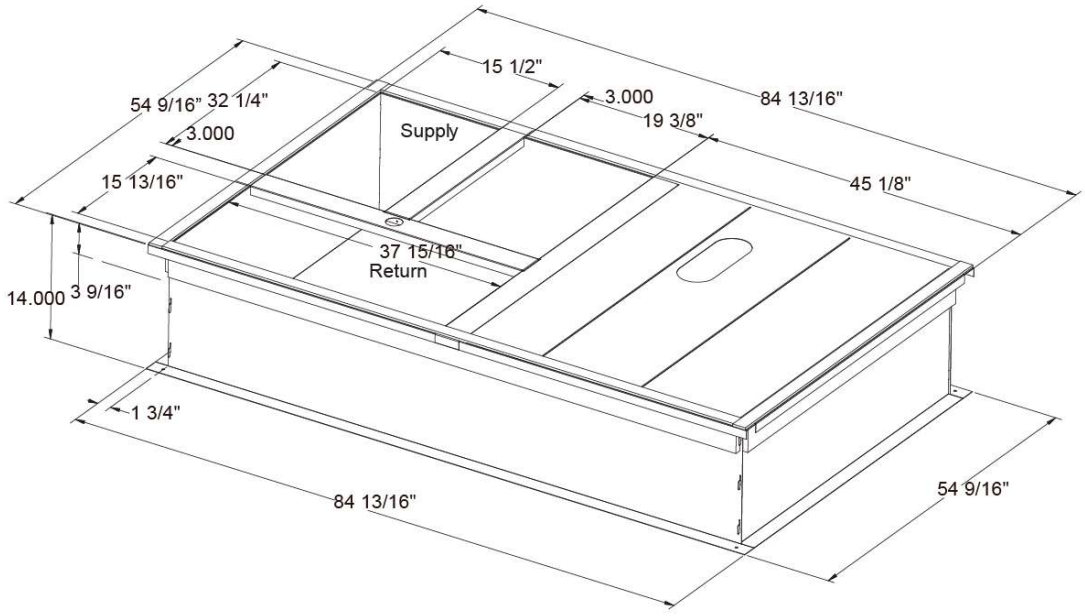
Roof curb D1-A3A-C14A (5Ton)

Unit: inches



Roof curb D1-A2A-C14A (7.5-12.5Ton)

Unit: inches



Gas Heat Data:

Gas heater operating data

Heating Input Rate—Btu/h	90,000/67,500	140,000/105,000	125,000	180,000	225,000	250,000
Minimum and Maximum Inlet Supply Gas Pressure Natural/LP	(4.5/11.0)/(10.5/14)	(4.5/11.0)/(10.5/14)	4.5/11.0	4.5/11.0	4.5/11.0	4.5/11.0
Manifold Gas Pressure[(a)]	3.0/1.7	3.4/1.9	3.5	3.9	3.6	3.5
Combustion Blower Suction Pressure (1st Stage)	-1.0 to -1.5	-1.0 to -1.5	-1.3 to -1.7	-1.3 to -1.7	-1.1 to -1.5	-1.1 to -1.5
Combustion Blower Suction Pressure (2nd Stage)	-1.0 to -1.5	-1.0 to -1.5	-1.3 to -1.7	-1.3 to -1.7	-1.1 to -1.5	-1.1 to -1.5
Minimum Flame Sensing Current[(b)]	5.0 Micro Amps DC					
Normal Sensing Current Range	8.0 to 16 Micro Amps DC					
Flue Gas Temperature Rise Above Ambient	150 °F to 220 °F	170 °F to 250 °F	230 °F to 300 °F			
Flue Gas Content -%CO_2	4.5 % to 8.5 %(Natural Gas) 5.0 % to 9.5 %(Propane)		7.0 % to 8.0 %(Natural Gas) 7.5 % to 9.0 %(Propane)			
Minimum Supply Air Temperature Across Heat Exchanger	40 °F					

(a) Staged gas heat units have a positive pressure gas valve. Never adjust the staged gas pressure valve to a negative pressure.
(b) A voltage reading across pens (V+) and (V-) is equivalent to the flame sensing current. One volt equals one micro amp.

Piping

Length of Pipe (ft)	Iron Pipe Size (IPS) Inches				
	1/2" Pipe	3/4" Pipe	1" Pipe	1¼" Pipe	1½" Pipe
15	76	176	345	750	1220
30	52	120	241	535	850
45	43	99	199	435	700
60	38	86	173	380	610
75	35	77	155	345	545

NOTE: Capacity of Pipe of Different Diameters and Lengths in Cu. Ft. Per Hr. with Pressure Drop of 0.3" and Specific Gravity of 0.60.

Specific gravity multipliers

Specific Gravity	Multipliers
0.5	1.1
0.55	1.04
0.6	1
0.65	0.96

Electrical Data:

Model	NOM V-Ph-Hz	MCA	Fuse or HACR BRKR
MRB-050V90(140)GWN10-X(G)	208/230V 3Ph 60Hz	28	45
MRB-075S125(180/225)GWN10-X(G)		35	45
MRB-100S180(225/250)GWN10-X(G)		50	60
MRB-125S180(225/250)GWN10-X(G)		62	80
MRB-050V90(140)GWN10-Z(G)	460V 3Ph 60Hz	13	20
MRB-075S125(180/225)GWN10-Z(G)		18	20
MRB-100S180(225/250)GWN10-Z(G)		28	30
MRB-125S180(225/250)GWN10-Z(G)		35	45

Accessory:

Midea Model		Accessory	
McDaniel	Micro Metl	Description	Fits Model Size
		Curbs	
D1-A3A-C14A-MDA	D1-A3A-C14A-MMA	Roof Curb 14" Tall, Knocked Down	5 ton
D1-A2A-C14A-MDA	D1-A2A-C14A-MMA	Roof Curb 14" Tall, Knocked Down	7.5-12.5 ton
		Economizers	
D1-A3A-EVC-MDA	D1-A3A-EVC-MMA	Vertical Economizer, Dry Bulb, Siemens	5 ton
D1-A3A-EHC-MDA	D1-A3A-EHC-MMA	Horizontal Economizer, Dry Bulb, Siemens	5 ton
D1-A2A-EVA-MDA	D1-A2A-EVA-MMA	Vertical Economizer, Dry Bulb, Siemens	7.5-12.5 ton
D1-A2A-EHA-MDA	D1-A2A-EHA-MMA	Horizontal Economizer, Dry Bulb, Siemens	7.5-12.5 ton
		Hail Guard	
D1-A3A-HLA-MDA	D1-A3A-HLA-MMA	Condenser Coil Hail Guards	5 ton
D1-A2A-HLA-MDA	D1-A2A-HLA-MMA	Condenser Coil Hail Guards	7.5-12.5 ton
		Damper	
D1-A3A-EDN-MDA	D1-A3A-EDN-MMA	2-Position damper	5 ton
D1-A2A-EDA-MDA	D1-A2A-EDA-MMA	2-Position damper	7.5-12.5 ton