

PERFORMANCE™ SERIES
38MGRB OUTDOOR UNIT



High Performance Outdoor Unit for Customizable Indoor Comfort

FEATURES OUTDOOR:

- Cost competitive
- Built-in base pan heater
- Auto-restart function
- Quiet outdoor operation, as low as 59 dB(A)
- Anti-corrosive fin coating
- Total zones range from 2 to 5 indoor heads
- Piping length 131–328 ft. (40–100 m)
- Cooling operating range -22° – 122° F (-30° – 50° C)
- Heating operating range -22° – 75° F (-30° – 24° C)

COMPATIBLE WITH:

- 40MPHA High Wall
- 40MAHB High Wall
- 40MHHQ High Wall
- 40MBCQ Cassette
- 40MBDQ Ducted
- 40MBFQ Floor Console
- 40MBAA Air Handler

Performance
SERIES



Heat Pump With Basepan Heater

Inverter Compressor

Sizes: 18 / 24HH / 30HH / 36 / 36HH / 48 / 48HH

Up to 25.0 SEER

Up to 11.3 HSPF

Select systems are ENERGY STAR® certified based on indoor pairings



KEY FEATURES

Multi-Zone Compatibility

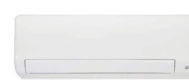
Mix and match up to five indoor units to this outdoor unit to bring customizable comfort to multiple rooms or your whole home.

Improved Performance

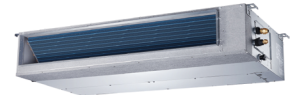
With new high-heat models, plus standard heat models, experience high performance in cold climates and temps.

Quiet Operation

A sleek, unobtrusive outdoor unit that's ultra-quiet means less noise pollution and more peaceful outdoor spaces.



High Wall



**Cassette
Size 09 / 12 / 18**

**Cassette
Size 24**

Ducted



**Console
Size 12**

**Console
Size 18 & 24**

**Air Handler
Size 24**

Note: Multi-zone units cannot heat and cool simultaneously.

SPECIFICATIONS:

38MGRB Outdoor Unit								
Heat Pump								
System								
Size		18R	24HH	30HH	36R	36HH	48R	48HH
Outdoor Model		38MGRBQ18BA3	38MGHBQ24CA3	38MGHBQ30DA3	38MGRBQ36DA3	38MGHBQ36DA3	38MGRBQ48EA3	38MGHBQ48EA3
Max Number of Zones		2	3	4	4	4	5	5
Operating Range								
Cooling Outdoor DB Min - Max	° F (° C)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)
Heating Outdoor DB Min - Max	° F (° C)	-22~-75 (-30~-24)	-22~-75 (-30~-24)	-22~-75 (-30~-24)	-22~-75 (-30~-24)	-22~-75 (-30~-24)	-22~-75 (-30~-24)	-22~-75 (-30~-24)
Piping								
Total Piping Length	ft (m)	131 (40)	197 (60)	262 (80)	262 (80)	262 (80)	328 (100)	328 (100)
Piping to furthest FCU	ft (m)	82 (25)	98 (30)	115 (35)	115 (35)	115 (35)	115 (35)	115 (35)
Drop (OD above ID)	ft (m)	49 (15)	49 (15)	49 (15)	49 (15)	65 (20)	65 (20)	65 (20)
Lift (OD below ID)	ft (m)	49 (15)	49 (15)	49 (15)	49 (15)	65 (20)	65 (20)	65 (20)
Pipe Connection Size - Liquid	in (mm)	1/4*2 (6.35*2)	1/4*3 (6.35*3)	1/4*4 (6.35*4)	1/4*4 (6.35*4)	1/4*4 (6.35*4)	1/4*5 (6.35*5)	1/4*5 (6.35*5)
Pipe Connection Size - Suction	in (mm)	3/8*2 (9.52*2)	3/8*3 (9.52*3)	1/2 *1+ 3/8*3 (12.7*1+9.52*3)	1/2 *1+ 3/8*3 (12.7*1+9.52*3)	1/2 *2+ 3/8*2 (12.7*2+9.52*2)	1/2 *2+ 3/8*3 (12.7*2+9.52*3)	1/2 *2+ 3/8*3 (12.7*2+9.52*3)
Refrigerant								
Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A
Charge	lbs (kg)	4.08 (1.85)	5.73 (2.6)	8.38 (3.8)	8.38 (3.8)	10.14 (4.6)	10.14 (4.6)	10.14 (4.6)
Electrical								
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor unit powered from outdoor unit						
MCA	A.	18	24.5	25	25	40	40	40
Recommended Fuse Size	A.	20	25	30	30	45	45	45
MOCP - Fuse Rating	A.	25	30	40	40	60	60	60
Compressor								
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Outdoor								
Unit Width	in (mm)	35.04 (890)	37.24 (946)	37.24 (946)	37.24 (946)	37.48 (952)	37.48 (952)	37.48 (952)
Unit Height	in (mm)	26.50 (673)	31.89 (810)	31.89 (810)	31.89 (810)	52.48 (1333)	52.48 (1333)	52.48 (1333)
Unit Depth	in (mm)	13.46 (342)	16.14 (410)	16.14 (410)	16.14 (410)	16.34 (415)	16.34 (415)	16.34 (415)
Net Weight	lbs (kg)	100.31 (45.5)	139.77 (63.4)	169.09 (76.7)	169.09 (76.7)	223.1 (101.2)	225.5 (102.3)	238.32 (108.1)
Airflow	CFM	1,765	2,129	2,147	2,147	4,500	4,500	4,500
Sound Pressure	dB(A)	59	61	63	63	64	64	65



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Non-Ducted							
Size	18R	24HH	30HH	36R	36HH	48R	48HH
Outdoor Model	38MGRBQ18BA3	38MGHBQ24CA3	38MGHBQ30DA3	38MGRBQ36DA3	38MGHBQ36DA3	38MGRBQ48EA3	38MGHBQ48EA3
Max Number of Zones	2	3	4	4	4	5	5
Energy Star	YES	YES	YES	NO	YES	YES	NO
Cooling System Tons	1.5	2.0	2.5	3.0	3.0	4.0	4.0
Cooling Rated Capacity	Btu/h	18,000	24,000	30,000	36,000	48,000	48,000
Cooling Cap. Range Min - Max	Btu/h	5,650~22,000	9,573~32,100	9,429~40,800	8,209~40,555	17,900~42,000	19,300~51,000
SEER		22.5	24.1	25.0	23.0	21.8	22.4
EER		13.3	13.1	12.5	11.5	13.6	12.5
Heating Rated Capacity (47° F)	Btu/h	19,000	25,000	30,000	37,000	36,500	49,000
Heating Maximum Capacity (5° F)	Btu/h	12,400	23,000	29,400	23,900	36,000	48,000
Heating Cap. Range Min - Max	Btu/h	5,050~24,400	8,439~33,930	8,118~41,400	8,008~44,632	12,500~49,000	12,500~52,000
HSPF		10.6	11.0	11.3	11.3	11.0	11.0
COP (47° F)	W/W	3.92	4.10	3.81	3.61	3.85	3.60
COP (5° F) - Maximum	W/W	1.75	1.75	1.90	1.75	1.75	2.00

PERFORMANCE:

Combination Ducted and Non-Ducted							
Size	18R	24HH	30HH	36R	36HH	48R	48HH
Outdoor Model	38MGRBQ18BA3	38MGHBQ24CA3	38MGHBQ30DA3	38MGRBQ36DA3	38MGHBQ36DA3	38MGRBQ48EA3	38MGHBQ48EA3
Max Number of Zones	2	3	4	4	4	5	5
Energy Star	YES	YES	NO	NO	YES	NO	NO
Cooling System Tons	1.5	2.0	2.5	3.0	3.0	4.0	4.0
Cooling Rated Capacity	Btu/h	18,000	24,000	30,000	36,000	48,000	48,000
Cooling Cap. Range Min - Max	Btu/h	4,750~22,200	7,883~31,399	8,777~39,650	8,499~40,422	17,500~43,000	19,200~50,500
SEER		20.8	22.6	22.4	21.3	20.4	21.5
EER		12.7	12.8	12.1	11.3	12.5	11.3
Heating Rated Capacity (47° F)	Btu/h	19,000	24,500	30,000	37,000	36,750	49,500
Heating Maximum Capacity (5° F)	Btu/h	12,700	22,000	29,000	23,900	36,000	48,000
Heating Cap. Range Min - Max	Btu/h	4,700~25,100	7,917~33,815	7,385~42,300	7,454~45,628	12,900~48,000	14,000~54,000
HSPF		10.7	10.8	10.7	11.0	11.0	10.6
COP (47° F)	W/W	3.86	3.96	3.81	3.61	3.80	3.59
COP (5° F) - Maximum	W/W	1.75	1.85	1.88	1.72	1.80	1.90



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Ducted								
Size		18R	24HH	30HH	36R	36HH	48R	48HH
Outdoor Model		38MGRBQ18BA3	38MGHBQ24CA3	38MGHBQ30DA3	38MGRBQ36DA3	38MGHBQ36DA3	38MGRBQ48EA3	38MGHBQ48EA3
Max Number of Zones		2	3	4	4	4	5	5
Energy Star		NO	YES	NO	NO	NO	NO	NO
Cooling System Tons		1.5	2.0	2.5	3.0	3.0	4.0	4.0
Cooling Rated Capacity	Btu/h	18,000	24,000	30,000	36,000	36,000	48,000	48,000
Cooling Cap. Range Min - Max	Btu/h	3,850~22,400	6,193~30,697	8,124~38,500	8,789~40,288	17,400~44,000	19,400~51,000	18,500~51,000
SEER		19.0	21.1	19.8	19.5	19.0	20.5	20.2
EER		12.0	12.5	11.6	11.0	11.3	10.1	11.4
Heating Rated Capacity (47° F)	Btu/h	19,000	24,000	30,000	37,000	37,000	50,000	50,000
Heating Maximum Capacity (5° F)	Btu/h	13,000	21,500	28,600	24,000	36,000	36,000	48,000
Heating Cap. Range Min - Max	Btu/h	4,350~25,800	7,394~33,700	6,652~43,200	6,900~46,624	13,300~47,000	15,500~56,000	12,000~59,000
HSPF		10.8	10.5	10.0	10.7	11.0	10.1	10.5
COP (47° F)	W/W	3.80	3.81	3.81	3.60	3.74	3.57	3.86
COP (5° F) - Maximum	W/W	1.75	1.95	1.85	1.68	1.80	1.80	1.85

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