

**PERFORMANCE™ SERIES**  
38MGR OUTDOOR UNIT



# Performance™ Multi-Zone Heat Pump With Basepan Heater

**FEATURES OUTDOOR:**

- 100% heating capacity at 5° F (-15° C)  
Sizes 24-36 (208/230V)
- Connect 2 ~ 5, multiple-style indoor units
- Basepan heater factory installed
- Quiet outdoor operation, as low as 62 dB(A)
- Anti-corrosive fin coating
- Total piping length 131 ~ 328 ft. (40 ~ 100 m.)
- Vertical lift/drop piping length 49 ~ 65 ft. (15 ~ 20 m.)
- Cooling operating range -13° ~ 122° F (-25° ~ 50° C)
- Heating operating range -22° ~ 86° F (-30° ~ 30° C)

**COMPATIBLE WITH:**

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

Performance  
SERIES



**Heat Pump With Basepan Heater**

Inverter Compressor

Up to 23.8 SEER

Up to 11.5 HSPF

Sizes: 18 / 24 / 30 / 36 / 48

Select Systems are ENERGY STAR® certified based on indoor combinations



**KEY FEATURES**

**Space-saving Installation**

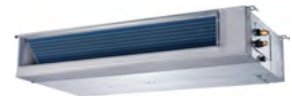
Up to five indoor units can be connected to a single outdoor unit, reducing the number of outdoor units. All indoor units can be individually controlled and do not need to be installed at the same time.

**Multiple-style Indoor Units**

Flexibility on the options of indoor unit styles to fit any application or need.



**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.

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**PERFORMANCE:**

Non-Ducted											
Size	18		24		30		36		48		
Outdoor Model	38MGRQ18B--3		38MGRQ24C--3		38MGRQ30D--3		38MGRQ36D--3		38MGRQ48E--3		
Max Number of Zones	2		3		4		4		5		
Energy Star	YES		YES		YES		YES		YES		
Cooling System Tons	1.5		2.0		2.5		3.0		4.0		
Cooling Rated Capacity	Btu/h	18,000		24,000		30,000		36,000		48,000	
Cooling Cap. Range Min - Max	Btu/h	5,810~21,940		7,880~33,510		8,090~41,470		8,560~45,020		8,560~53,160	
SEER	22.5		23.0		23.8		21.5		22.4		
EER	12.5		12.5		12.5		13.5		12.5		
Heating Rated Capacity (47° F)	Btu/h	19,000		24,000		28,000		36,000		48,000	
Heating Maximum Capacity (5° F)	Btu/h	14,400		24,450		29,230		36,660		37,290	
Heating Cap. Range Min - Max	Btu/h	5,760~24,480		6,010~36,180		6,350~41,950		7,210~50,350		7,210~55,820	
HSPF	10.3		10.3		10.0		10.5		10.2		
COP (47° F)	W/W	3.6		3.9		3.8		3.8		3.6	
COP (5° F)	W/W	2.2		2.1		2.0		1.8		2.0	

Combination and Non-Ducted											
Size	18		24		30		36		48		
Outdoor Model	38MGRQ18B--3		38MGRQ24C--3		38MGRQ30D--3		38MGRQ36D--3		38MGRQ48E--3		
Max Number of Zones	2		3		4		4		5		
Energy Star	NO		NO		NO		NO		NO		
Cooling System Tons	1.5		2.0		2.5		3.0		4.0		
Cooling Rated Capacity	Btu/h	18,000		24,000		30,000		36,000		48,500	
Cooling Cap. Range Min - Max	Btu/h	5,795~20,708		7,765~31,955		8,060~39,990		8,510~42,635		8,510~52,580	
SEER	20.50		22.00		22.40		20.25		21.45		
EER	12.15		11.75		11.25		12.40		11.30		
Heating Rated Capacity (47° F)	Btu/h	18,700		24,000		29,000		36,400		49,000	
Heating Maximum Capacity (5° F)	Btu/h	14,565		24,150		28,615		36,065		37,045	
Heating Cap. Range Min - Max	Btu/h	5,650~24,365		5,980~36,190		6,275~42,305		7,045~47,800		7,045~54,935	
HSPF	10.15		10.15		10.00		10.75		10.85		
COP (47° F)	W/W	3.7		3.9		3.7		3.7		3.5	
COP (5° F)	W/W	2.1		2.0		2.0		1.8		1.9	

Ducted											
Size	18		24		30		36		48		
Outdoor Model	38MGRQ18B--3		38MGRQ24C--3		38MGRQ30D--3		38MGRQ36D--3		38MGRQ48E--3		
Max Number of Zones	2		3		4		4		5		
Energy Star	NO		NO		NO		NO		NO		
Cooling System Tons	1.5		2.0		2.5		3.0		4.1		
Cooling Rated Capacity	Btu/h	18,000		24,000		30,000		36,000		49,000	
Cooling Cap. Range Min - Max	Btu/h	5,780~19,476		7,650~30,400		8,030~38,510		8,460~40,250		8,460~52,000	
SEER	18.5		21.0		21.0		19.0		20.5		
EER	11.8		11.0		10.0		11.3		10.1		
Heating Rated Capacity (47° F)	Btu/h	18,500		24,000		30,000		37,000		50,000	
Heating Maximum Capacity (5° F)	Btu/h	14,730		23,850		28,000		35,470		36,800	
Heating Cap. Range Min - Max	Btu/h	5,539~24,249		5,950~36,200		6,200~42,660		6,880~45,250		6,880~54,050	
HSPF	10.0		10.0		10.0		11.0		11.5		
COP (47° F)	W/W	3.8		3.8		3.6		3.6		3.4	
COP (5° F)	W/W	2.10		1.96		1.98		1.75		1.82	



**PERFORMANCE™ SERIES**  
38MGR OUTDOOR UNIT

**SPECIFICATIONS:**

38MGR Outdoor Unit						
Heat Pump						
System						
Size		18	24	30	36	48
Outdoor Model		38MGRQ18B--3	38MGRQ24C--3	38MGRQ30D--3	38MGRQ36D--3	38MGRQ48E--3
Max Number of Zones		2	3	4	4	5
Operating Range						
Cooling Outdoor DB Min - Max	° F (° C)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)
Heating Outdoor DB Min - Max	° F (° C)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)
Piping						
Total Piping Length	ft (m)	131(40)	197(60)	263(80)	328(100)	328(100)
Piping to furthest FCU	ft (m)	82 (25)	98 (30)	115(35)	115(35)	115 (35)
Drop (OD above ID)	ft (m)	49 (15)	49 (15)	49 (15)	65 (20)	65 (20)
Lift (OD below ID)	ft (m)	49 (15)	49 (15)	49 (15)	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*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 *2+ 3/8*2 (12.7*2+9.52*2)	1/2 *2+ 3/8*3 (12.7*2+9.52*3)
Refrigerant						
Type		R410A	R410A	R410A	R410A	R410A
Charge	lbs (kg)	4.41 (2.0)	6.17(2.8)	6.61 (3.0)	10.13 (4.6)	10.13 (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
Power Supply		Indoor Unit Powered From Outdoor Unit				
MCA	A.	18	25	30	35	35
MOCP - Fuse Rating	A.	25	35	45	50	50
Compressor						
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Outdoor						
Unit Width	in (mm)	37.31 (948)	41.22 (1047)	41.22 (1047)	41.15 (1045)	41.15 (1045)
Unit Height	in (mm)	27.64 (702)	31.88 (810)	31.88 (810)	52.48 (1333)	52.48 (1333)
Unit Depth	in (mm)	14.82 (376)	17.91 (455)	17.91 (455)	17.63 (448)	17.63 (448)
Net Weight	lbs (kg)	105.8 (48)	149.9 (68)	156.5 (71)	221.6 (100.5)	223.8 (101.5)
Airflow	CFM	1,390	2,130	2,130	4,500	4,500
Sound Pressure	dB(A)	62	63	62	64	64



**COMPATIBILITY:**

Indoor Unit		Outdoor Unit				
		38MGRQ18B--3	38MGRQ24C--3	38MGRQ30D--3	38MGRQ36D--3	38MGRQ48E--3
40MPHA High Wall	40MPHAQ09XA3	•	•	•	•	•
	40MPHAQ12XA3	•	•	•	•	•
40MAQ High Wall	40MAQB09B--3	•	•	•	•	•
	40MAQB12B--3	•	•	•	•	•
	40MAQB18B--3		•	•	•	•
40MHHQ High Wall	40MAQB24B--3			•	•	•
	40MHHQ09---3	•	•	•	•	•
	40MHHQ12---3	•	•	•	•	•
	40MHHQ18---3		•	•	•	•
40MHHQ High Wall	40MHHQ24---3			•	•	•
	40MBCQ09---3	•	•	•	•	•
	40MBCQ12---3	•	•	•	•	•
	40MBCQ18---3		•	•	•	•
40MBCQ Cassette	40MBCQ24---3			•	•	•
	40MBDQ09---3	•	•	•	•	•
40MBCQ Ducted	40MBDQ12---3	•	•	•	•	•
	40MBDQ18---3		•	•	•	•
	40MBDQ24---3			•	•	•
	40MBFQ12---3	•	•	•	•	•
40MBFQ Console	40MBFQ18---3		•	•	•	•
	40MBFQ24---3			•	•	•
	40MBAA Air Handler	40MBAAQ24XA3			•	•

**RATED COMBINATIONS:**

Outdoor Models	Two Zones		Three Zones			Four Zones		Five Zones	
38MGRQ18B--3	9+9								
	9+12								
	12+12								
38MGRQ24C--3	9+9	12+12	9+9+9	9+12+12					
	9+12	12+18	9+9+12	12+12+12					
	9+18	18+18	9+9+18						
38MGRQ30D--3	9+9	12+12	9+9+9	9+12+12	12+12+12	9+9+9+9	9+9+12+18		
	9+12	12+18	9+9+12	9+12+18	12+12+18	9+9+9+12	9+12+12+12		
	9+18	12+24	9+9+18	9+12+24	12+18+18	9+9+9+18	12+12+12+12		
	9+24	18+18	9+9+24	9+18+18	12+12+24	9+9+12+12			
38MGRQ36D--3	9+18	12+12	9+9+9	9+12+24	12+12+24	9+9+9+9	9+12+12+12		
	9+24	12+18	9+9+12	9+18+18	12+18+18	9+9+9+12	9+12+12+18		
		12+24	9+9+18	9+18+24	12+18+24	9+9+9+18	9+12+12+24		
		18+18	9+9+24	9+24+24	12+24+24	9+9+9+24	9+12+18+18		
		18+24	9+12+12	12+12+12	18+18+18	9+9+12+12	9+18+18+18		
		24+24	9+12+18	12+12+18	18+18+24	9+9+12+18	12+12+12+12		
						9+9+12+24	12+12+12+18		
						9+9+18+18	12+12+12+24		
38MGRQ48E--3						9+9+18+24	12+12+18+18		
		9+18	9+9+9	9+24+24		9+9+9+9	9+12+12+12		
		9+24	9+9+12	12+12+12		9+9+9+12	9+12+12+18		
		12+12	9+9+18	12+12+18		9+9+9+18	9+12+12+24	9+9+9+9+9	9+9+9+18+18
		12+18	9+9+24	12+12+24		9+9+9+24	9+12+18+18	9+9+9+9+12	9+9+12+12+12
		12+24	9+12+12	12+18+18		9+9+12+12	9+18+18+18	9+9+9+9+18	9+9+12+12+18
		18+18	9+12+18	12+18+24		9+9+12+18	12+12+12+12	9+9+9+9+24	9+12+12+12+12
		18+24	9+12+24	12+24+24		9+9+12+24	12+12+12+18	9+9+9+12+12	9+12+12+12+18
	24+24	9+18+18	18+18+18		9+9+18+18	12+12+12+24	9+9+9+12+18	12+12+12+12+12	
		9+18+24	18+18+24		9+9+18+24	12+12+18+18			

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