

38MGR Outdoor Unit

Preferred™ Series



FEATURES OUTDOOR

- 100% Heating capacity at 5° F (-15° C) sizes 24-36
- Available in 208/230V
- Connect 2~5, multiple style indoor units
- Built-in basepan heater
- Quiet outdoor operation, as low 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

- 619PHA High Wall
- 619P*B High Wall
- 40MHHQ High Wall
- 40MBCQ Cassette
- 40MBDQ Ducted
- 40MBFQ Console
- 40MBAA Air Handler

Preferred™
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 Indoor Unit Styles

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



619PHA High Wall
SIZES: 9 / 12



619P*B High Wall
SIZES: 09 / 12 / 18 / 24 / 30 / 36



40MHHQ High Wall
SIZES: 09 / 12 / 18 / 24



40MBCQ Cassette
SIZES: 09 / 12 / 18 / 24



40MBDQ Ducted
SIZES: 09 / 12 / 18 / 24



40MBFQ Console
SIZES: 12 / 18 / 24



40MBAA Air Handler
SIZES: 24

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

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

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
619PHA High Wall	619PHAQ09XA3	•	•	•	•	•
	619PHAQ12XA3	•	•	•	•	•
619PB High Wall	619PEQ009BBMA	•	•	•	•	•
	619PEQ012BBMA	•	•	•	•	•
	619PEQ018BBMA		•	•	•	•
	619PEQ024BBMA			•	•	•
40MHHQ High Wall	40MHHQ09---3	•	•	•	•	•
	40MHHQ12---3	•	•	•	•	•
	40MHHQ18---3		•	•	•	•
	40MHHQ24---3			•	•	•
40MBCQ Cassette	40MBCQ09---3	•	•	•	•	•
	40MBCQ12---3	•	•	•	•	•
	40MBCQ18---3		•	•	•	•
	40MBCQ24---3			•	•	•
40MBCQ Ducted	40MBDQ09---3	•	•	•	•	•
	40MBDQ12---3	•	•	•	•	•
	40MBDQ18---3		•	•	•	•
	40MBDQ24---3			•	•	•
40MBFQ Console	40MBFQ12---3	•	•	•	•	•
	40MBFQ18---3		•	•	•	•
	40MBFQ24---3			•	•	•
40MBAA Air Handler	40MBAAQ24XA3			•	•	•

RATED COMBINATIONS

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