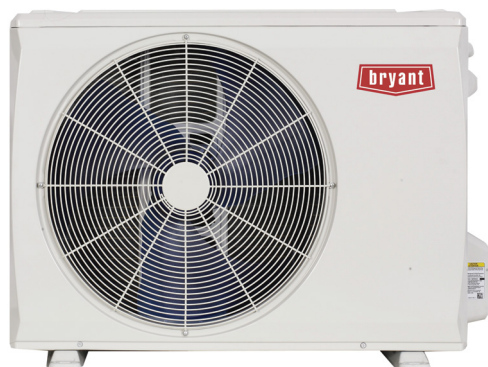


38MARB Outdoor Unit

Preferred Series



OUTDOOR FEATURES

- 100% heating capacity at -4° F (-20° C)*
- Available in 208/230V (6-36K) and 115V (12K)
- Built-in basepan heater
- Auto-restart function
- Anti-corrosive fin coating
- Piping Length up to 213 ft (65m)
- Cooling operating range -22° ~ 130° F (-30° ~ 55° C)
- Heating operating range -22° ~ 86° F (-25° ~ 30° C)

COMPATIBLE WITH

- 619AHB High Wall
- 40MBCQ Cassette
- 40MBDQ Ducted
- 40MBFQ Console
- 40MBAA Air Handler
- FV4C Fan Coil
- FMA4 Fan Coil
- FMC/FMU Fan Coil
- FX4D Fan Coil
- FB4C Fan Coil

PREFERRED™
SERIES



Heat Pump with Basepan Heater

Inverter Compressor

Up to 28.1 SEER

Up to 13.0 HSPF

Sizes: 06 / 09 / 12 / 18 / 24 / 30 / 36
(208-230V); Size 12 (115V)



KEY FEATURES

Extra Low Temperature Heating

Heat output up to 69% of rated capacity at -22° F (-30° C). So, when it's cold outside, it will be warm inside, making this a primary heat source and eliminating the need for a backup.

Rapid Cooling and Heating

After startup, the compressor quickly gets up to maximum speed, cooling or heating the room in minutes.



619AHB High Wall
SIZES: 06 / 09 / 12 /
18 / 24 / 30 / 36



40MBFQ Console
SIZES: 12



40MBFQ Console
SIZES: 18 / 24



40MBCQ Cassette
SIZES: 09 / 12 / 18



40MBCQ Cassette
SIZES: 24



FMC/FMU
Fan Coil
SIZES: 09 / 12 /
18 / 24



40MBAA Air Handler
SIZES: 24



Vertical Fan Coil
FMA4X



Fan Coil
FV4C, FX4D, FB4C

* For certain models.

PERFORMANCE

619AHB High Wall									
Size		12	6	9	12	18	24	30	36
Indoor Model		619AHBQ12XA1	40MAHBQ06XA3	619AHBQ09XA3	619AHBQ12XA3	619AHBQ18XA3	619AHBQ24XA3	619AHBQ30XA3	619AHBQ36XA3
ENERGY STAR®		YES	YES	YES	YES	YES	YES	NO	NO
Cooling Rated Capacity	Btu/h	12,000	6,000	9,000	12,000	18,000	24,000	30,000	36,000
Cooling Cap. Range Min - Max	Btu/h	3,500~13,200	2,500~11,000	3,300~13,400	3,300~14,300	8,870~19,400	6,850~2,700	9,070~30,700	9,300~38,800
SEER		23.0	26.5	28.1	25.5	21.5	21.5	20.0	17.5
EER		13.0	15.8	16.2	14	12.5	13.0	11.5	8.5
Heating Rated Capacity (47° F)	Btu/h	12,100	7,400	11,800	12,000	18,000	29,000	30,000	36,000
Heating Rated Capacity (17° F)	Btu/h	7,400	4,900	7,500	7,500	10,800	19,800	19,000	22,400
Heating Maximum Capacity (17° F)	Btu/h	12,200	9,000	12,000	12,000	14,000	24,480	20,670	23,600
Heating Maximum Capacity (5° F)	Btu/h	7,100	7,500	10,500	11,650	18,000	25,400	17,200	20,400
Heating Cap. Range Min - Max	Btu/h	5,000~12,200	3,500~11,600	5,000~15,200	5,000~15,300	8,400~19,500	8,600~31,000	8,600~34,800	11,570~37,000
HSPF		11.5	14.0	13.0	13.0	13.0	12.0	9.6	9.0
COP (47° F)	W/W	3.70	3.90	3.81	3.81	3.10	3.40	2.60	2.51
COP (17° F)	W/W	2.67	3.05	3.00	3.00	2.80	3.05	2.25	2.18
COP (5° F)	W/W	2.18	1.90	1.80	1.80	1.80	1.80	1.75	1.75

PERFORMANCE:

40MBCQ Cassette				
Size		9	12	18
Indoor Model		40MBCQ09---3	40MBCQ12---3	40MBCQ18---3
ENERGY STAR®		YES	YES	YES
Cooling System Tons		0.75	1.00	1.33
Cooling Rated Capacity	Btu/h	9,000	12,000	16,000
Cooling Cap. Range Min - Max	Btu/h	2,850~11,100	3,000~13,700	5,600~17,000
SEER		20.5	21.5	20.0
EER		13.0	12.7	12.5
Heating Rated Capacity (47° F)	Btu/h	10,000	12,000	18,000
Heating Rated Capacity (17° F)	Btu/h	6,650	8,250	11,200
Heating Maximum Capacity (17° F)	Btu/h	11,800	14,000	21,000
Heating Maximum Capacity (5° F)	Btu/h	9,800	11,500	16,300
Heating Cap. Range Min - Max	Btu/h	1,800~12,500	2,000~15,300	8,700~21,000
HSPF		10.8	10.6	10.3
COP (47° F)	W/W	2.93	3.22	2.88
COP (17° F)	W/W	1.80	2.20	1.80
COP (5° F)	W/W	1.80	1.86	1.80

PERFORMANCE:

40MBDQ Ducted				
Size		9	12	18
Indoor Model		40MBDQ09---3	40MBDQ12---3	40MBDQ18---3
ENERGY STAR®		YES	YES	YES
Cooling System Tons		0.75	1.0	1.4
Cooling Rated Capacity	Btu/h	9,000	12,000	16,500
Cooling Cap. Range Min - Max	Btu/h	2,400~12,500	2,250~14,400	6,500~18,800
SEER		23.0	21.5	19.6
EER		14.0	13.0	12.5
Heating Rated Capacity (47° F)	Btu/h	10,000	12,000	19,000
Heating Rated Capacity (17° F)	Btu/h	6,450	8,350	12,700
Heating Maximum Capacity (17° F)	Btu/h	11,600	12,900	21,500
Heating Maximum Capacity (5° F)	Btu/h	9,500	12,400	17,300
Heating Cap. Range Min - Max	Btu/h	1,700~15,600	1,800~16,300	8,900~22,000
HSPF		12.0	11.5	11.0
COP (47° F)	W/W	3.62	3.52	2.93
COP (17° F)	W/W	1.90	2.00	1.90
COP (5° F)	W/W	1.80	1.87	1.80

Manufacturer reserves the right to discontinue, or change at any time, specification or designs without notice or incurring obligations.

Preferred Series

PERFORMANCE:

40MBFQ Console			
Size	12	18	24
Indoor Model	40MBFQ12---3	40MBFQ18---3	40MBFQ24---3
ENERGY STAR®	YES	YES	NO
Cooling System Tons	1.0	1.4	2.0
Cooling Rated Capacity	Btu/h	12,000	17,000
Cooling Cap. Range Min - Max	Btu/h	2,800~13,500	7,800~19,900
SEER	23.0	20.2	20.2
EER	13.0	12.5	11.5
Heating Rated Capacity (47° F)	Btu/h	12,000	18,000
Heating Rated Capacity (17° F)	Btu/h	8,400	12,000
Heating Maximum Capacity (17° F)	Btu/h	13,100	20,700
Heating Maximum Capacity (5° F)	Btu/h	12,100	16,400
Heating Cap. Range Min - Max	Btu/h	2,350~15,700	8,600~21,500
HSPF	11.5	10.6	11.6
COP (47° F)	W/W	3.22	3.19
COP (17° F)	W/W	2	1.8
COP (5° F)	W/W	1.84	1.80

PERFORMANCE:

40MBAA Air Handler		
Size	24	
Indoor Model	40MBAAQ24XA3	
Outdoor Model	38MARBQ24AA3	
ENERGY STAR®	YES	
Cooling System Tons	1.80	
Cooling Rated Capacity	Btu/h	22,000
Cooling Cap. Range Min - Max	Btu/h	7,500~26,000
SEER	20.0	
EER	12.5	
Heating Rated Capacity (47° F)	Btu/h	27,000
Heating Rated Capacity (17° F)	Btu/h	16,500
Heating Maximum Capacity (17° F)	Btu/h	25,000
Heating Maximum Capacity (5° F)	Btu/h	21,500
Heating Cap. Range Min - Max	Btu/h	5,600~31,000
HSPF	11.6	
COP (47° F)	W/W	3.77
COP (17° F)	W/W	2.60
COP (5° F)	W/W	1.80

SPECIFICATIONS:

38MARB Outdoor Unit									
Heat Pump									
System									
Size	12	6	9	12	18	24	30	36	
Outdoor Model	38MARBQ12AA1	38MARBQ06AA3	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3	38MARBQ30AA3	38MARBQ36AA3	
Electrical									
Voltage-Phase-Cycle	V-Ph-Hz	115-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	19	13	15	15	16	25	23	28
MOCP - Fuse Rating	A.	25	15	15	15	25	35	30	35
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)	-22~-122 (-30~-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)	-22~-86 (-30~-30)	-22~-86 (-30~-30)	-22~-86 (-30~-30)
Piping									
Total Piping Length	ft (m)	82 (25)	82 (25)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)	213 (65)
Piping Lift*	ft (m)	32 (10)	32 (10)	32 (10)	32 (10)	65 (20)	82 (25)	82 (25)	98 (30)
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	1/2 (12.7)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (16)	5/8 (16)	5/8 (16)
Refrigerant									
Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Charge	in (mm)	2.47 (1.12)	2.38 (1.08)	2.6 (1.18)	2.6 (1.18)	4.08 (1.85)	5.73 (2.6)	6.06 (2.75)	7.50 (3.40)
Compressor									
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Outdoor									
Unit Width	in (mm)	30.12 (765)	30.12 (765)	31.69 (805)	31.69 (805)	35.04 (890)	37.24 (946)	37.24 (946)	37.24 (946)
Unit Height	in (mm)	24.02 (610)	21.85 (555)	24.21 (615)	24.21 (615)	29.13 (740)	34.84 (885)	34.84 (885)	34.84 (885)
Unit Depth	in (mm)	11.93 (303)	11.93 (303)	12.99 (330)	12.99 (330)	13.46 (342)	16.14 (410)	16.14 (410)	16.14 (410)
Net Weight	lbs (kg)	66.80 (30.3)	63.71 (28.9)	74.07 (33.6)	73.63 (33.4)	100.97 (45.8)	134.48 (61)	141.76 (64.3)	150.13 (68.1)
Airflow	CFM	794	1,324	1,324	1,324	1,765	2,235	2,235	2,235
Sound Pressure	dB(A)	54.0	54.5	54.5	56.0	59.0	62.0	61.5	61.5

*Condensing unit above or below indoor unit.

COMPATIBILITY

Indoor Unit		Outdoor Unit							
		38MAQB12R--1		38MAQB09R--3	38MAQB12R--3	38MAQB18R--3	38MAQB24R--3	38MAQB30R--3	38MAQB36R--3
		38MARBQ12AA1	38MARBQ06AA3	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3	38MARBQ30AA3	38MARBQ36AA3
619AHB High Wall	619AHBQ12XA1	•							
	619AHBQ06XA3		•						
	619AHBQ09XA3			•					
	619AHBQ12XA3				•				
	619AHBQ18XA3					•			
	619AHBQ24XA3						•		
	619AHBQ30XA3							•	
40MBCQ Cassette*	619AHBQ36XA3								•
	40MBCQ09--3			•					
	40MBCQ12--3				•				
	40MBCQ18--3					•			
	40MBCQ24--3						•		
	40MBCQ36--3								
40MBDQ Ducted*	40MBCQ48--3								
	40MBDQ09--3			•					
	40MBDQ12--3				•				
	40MBDQ18--3					•			
	40MBDQ24--3						•		
	40MBDQ36--3								
	40MBDQ48--3								
40MBFQ Console*	40MBDQ58--3								
	40MBFQ12--3				•				
	40MBFQ18--3					•			
	40MBFQ24--3						•		
	40MBFQ36--3								
	40MBFQ48--3								
	40MBFQ58--3								

*Cassette, Ducted and Console indoor units sizes 36, 48 & 58 ONLY compatible with 38MBR or 38MBRB Outdoor Unit.

- Not available/compatible or Phased out
 • Compatible