

PERFORMANCE™ SERIES
38MARB OUTDOOR UNITS



Performance™ Heat Pump with Basepan Heater

FEATURES OUTDOOR

- 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

- 40MAHB High Wall
- 40MBCQ Cassette
- 40MBDQ Ducted
- 40MBFQ Console
- FMA4X Fan Coil
- FMC-FMU Fan Coil
- FV4C Fan Coil
- FX4D Fan Coil
- FB4C Fan Coil
- 40MBAA Air Handler

Performance
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)



Select sizes are ENERGY STAR® certified based on indoor unit pairing

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.



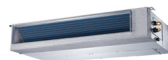
High Wall



Cassette
Sizes 09 / 12 / 18



Cassette
Size 24



Ducted



Floor Console
Size 12



Console
Sizes 18 / 24



Vertical Fan Coil
FMA4X



Horizontal Fan Coil
FMC/FMU



Fan Coil
FV4C, FX4D,
FB4C



Air Handler
Size 24

PERFORMANCE:

		40MAHB High Wall							
Size		12	6	9	12	18	24	30	36
Indoor Model		40MAHBQ12XA1	40MAHBQ06XA3	40MAHBQ09XA3	40MAHBQ12XA3	40MAHBQ18XA3	40MAHBQ24XA3	40MAHBQ30XA3	40MAHBQ36XA3
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	24
Indoor Model		40MBCQ09---3	40MBCQ12---3	40MBCQ18---3	40MBCQ24---3
ENERGY STAR®		YES	YES	YES	NO
Cooling System Tons		0.75	1.00	1.33	2.00
Cooling Rated Capacity	Btu/h	9,000	12,000	16,000	24,000
Cooling Cap. Range Min - Max	Btu/h	2,850~11,100	3,000~13,700	5,600~17,000	8,000~25,000
SEER		20.5	21.5	20.0	20.0
EER		13.0	12.7	12.5	11.0
Heating Rated Capacity (47° F)	Btu/h	10,000	12,000	18,000	24,000
Heating Rated Capacity (17° F)	Btu/h	6,650	8,250	11,200	15,100
Heating Maximum Capacity (17° F)	Btu/h	11,800	14,000	21,000	24,200
Heating Maximum Capacity (5° F)	Btu/h	9,800	11,500	16,300	23,600
Heating Cap. Range Min - Max	Btu/h	1,800~12,500	2,000~15,300	8,700~21,000	11,840~27,000
HSPF		10.8	10.6	10.3	11.6
COP (47° F)	W/W	2.93	3.22	2.88	3.50
COP (17° F)	W/W	1.80	2.20	1.80	2.70
COP (5° F)	W/W	1.80	1.86	1.80	1.80

PERFORMANCE:

		40MBDQ Ducted			
Size		9	12	18	24
Indoor Model		40MBDQ09---3	40MBDQ12---3	40MBDQ18---3	40MBDQ24---3
ENERGY STAR®		YES	YES	YES	YES
Cooling System Tons		0.75	1.0	1.4	2.0
Cooling Rated Capacity	Btu/h	9,000	12,000	16,500	24,000
Cooling Cap. Range Min - Max	Btu/h	2,400~12,500	2,250~14,400	6,500~18,800	6,500~27,800
SEER		23.0	21.5	19.6	20.6
EER		14.0	13.0	12.5	12.5
Heating Rated Capacity (47° F)	Btu/h	10,000	12,000	19,000	24,600
Heating Rated Capacity (17° F)	Btu/h	6,450	8,350	12,700	16,500
Heating Maximum Capacity (17° F)	Btu/h	11,600	12,900	21,500	26,500
Heating Maximum Capacity (5° F)	Btu/h	9,500	12,400	17,300	24,600
Heating Cap. Range Min - Max	Btu/h	1,700~15,600	1,800~16,300	8,900~22,000	12,200~32,200
HSPF		12.0	11.5	11.0	12.6
COP (47° F)	W/W	3.62	3.52	2.93	3.66
COP (17° F)	W/W	1.90	2.00	1.90	2.80
COP (5° F)	W/W	1.80	1.87	1.80	2.01



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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	24,000
Cooling Cap. Range Min - Max	Btu/h	2,800~13,500	7,800~19,900	9,000~26,800
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	24,600
Heating Rated Capacity (17° F)	Btu/h	8,400	12,000	15,240
Heating Maximum Capacity (17° F)	Btu/h	13,100	20,700	26,661
Heating Maximum Capacity (5° F)	Btu/h	12,100	16,400	23,600
Heating Cap. Range Min - Max	Btu/h	2,350~15,700	8,600~21,500	12,500~30,500
HSPF		11.5	10.6	11.6
COP (47° F)	W/W	3.22	3.19	3.52
COP (17° F)	W/W	2	1.8	2.7
COP (5° F)	W/W	1.84	1.80	1.80

40MBAA Air Handler		
Size		24
Indoor Model		40MBAAQ24XA3
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
40MAHB High Wall	40MAHBQ12XA1	•							
	40MAHBQ06XA3		•						
	40MAHBQ09XA3			•					
	40MAHBQ12XA3				•				
	40MAHBQ18XA3					•			
	40MAHBQ24XA3						•		
	40MAHBQ30XA3							•	
40MBCQ Cassette*	40MBCQ09---3			•					
	40MBCQ12---3				•				
	40MBCQ18---3					•			
	40MBCQ24---3						•		
	40MBCQ36---3								
	40MBCQ48---3								
40MBDQ Ducted*	40MBDQ09---3			•					
	40MBDQ12---3				•				
	40MBDQ18---3					•			
	40MBDQ24---3						•		
	40MBDQ36---3								
	40MBDQ48---3								
40MBFQ Console*	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

