

## 38MARB Outdoor Unit



### Heat Pump With Basepan Heater

Inverter Compressor

Up to 28.1 SEER

Up to 13.0 HSPF

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

Size 12 (115V)

### Features Outdoor

- 100% Heating Capacity at -4° F (-20° C)\*
- Available in 208/230V (9-36K) 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:

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



For optimal temperature flexibility and quiet outdoor operation, the Payne 38MARB outdoor unit can't be beat. It heats in extra-low temperatures, with a heat output of up to 69% of the rated capacity (at 22° F or -30° C), so that when it's cold outside, it will be warm inside. This also makes the 38MARB a primary heat source and eliminates the need for a backup. And, it works fast, quickly getting up to maximum speed after startup to heat or cool the room in just minutes.

\* For certain models.

# 38MARB Outdoor Unit

Performance								
DHMAHB High Wall								
Size		12	9	12	18	24	30	36
Indoor Model		DHMAHBQ12XA1	DHMAHBQ09XA3	DHMAHBQ12XA3	DHMAHBQ18XA3	DHMAHBQ24XA3	DHMAHBQ30XA3	DHMAHBQ36XA3
ENERGY STAR®		YES	YES	YES	YES	YES	NO	NO
Cooling Rated Capacity	Btu/h	12,000	9,000	12,000	18,000	24,000	30,000	36,000
Cooling Cap. Range Min - Max	Btu/h	3,500~13,200	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	28.1	25.5	21.5	21.5	20.0	17.5
EER		13.0	16.2	14	12.5	13.0	11.5	8.5
Heating Rated Capacity (47° F)	Btu/h	12,100	11,800	12,000	18,000	29,000	30,000	36,000
Heating Rated Capacity (17° F)	Btu/h	7,400	7,500	7,500	10,800	19,800	19,000	22,400
Heating Maximum Capacity (17° F)	Btu/h	12,200	12,000	12,000	14,000	24,480	20,670	23,600
Heating Maximum Capacity (5° F)	Btu/h	7,100	10,500	12,000	18,000	25,400	17,200	20,400
Heating Cap. Range Min - Max	Btu/h	5,000~12,200	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	13.0	13.0	13.0	12.0	9.6	9.0
COP (47° F)	W/W	3.70	3.81	3.81	3.10	3.40	2.60	2.51
COP (17° F)	W/W	2.67	3.00	3.00	2.80	3.05	2.25	2.18
COP (5° F)	W/W	2.18	1.80	1.75	1.78	1.75	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	10,200	11,500	17,000	24,100
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	1.79	1.86	1.68	1.75

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	9,900	12,400	17,800	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	1.78	1.87	1.75	2.01

# 38MARB Outdoor Unit

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	16,900	24,100
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	1.75	1.76

Performance		
40MBAA Air Handler		
Size		24
Indoor Model		40MBAAQ24XA3
Outdoor Model		38MARBQ24AA3
ENERGY STAR®		YES
Cooling System Tons		2.0
Cooling Rated Capacity	Btu/h	24,000
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	22,000
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	1.75

Specifications								
38MARB Outdoor Unit								
Heat Pump								
System								
Size		12	9	12	18	24	30	36
Outdoor Model		38MARBQ12AA1	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
MCA	A.	19	15	15	16	25	23	28
MOCP - Fuse Rating	A.	25	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)
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)
Piping								
Total Piping Length	ft (m)	82 (25)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)	213 (65)
Piping Lift*	ft (m)	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)	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)	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
Charge	in (mm)	2.47 (1.12)	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
Outdoor								
Unit Width	in (mm)	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)	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)	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)	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	1,765	2,235	2,235	2,235
Sound Pressure	dB(A)	54.0	54.5	56.0	59.0	62.0	61.5	61.5

\*Condensing unit above or below indoor unit.

# 38MARB Outdoor Unit

Indoor Unit		Compatibility						
		Outdoor Unit						
		38MAQB12R--1	38MAQB09R--3	38MAQB12R--3	38MAQB18R--3	38MAQB24R--3	38MAQB30R--3	38MAQB36R--3
		38MARBQ12AA1	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3	38MARBQ30AA3	38MARBQ36AA3
DHMAHB High Wall	DHMAHBQ12XA1	•						
	DHMAHBQ09XA3		•					
	DHMAHBQ12XA3			•				
	DHMAHBQ18XA3				•			
	DHMAHBQ24XA3					•		
	DHMAHBQ30XA3						•	
	DHMAHBQ36XA3							•
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							
	40MBDQ58--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.

Backwards compatible with DHMSHA high wall.

Not available/compatible or Phased out

- Compatible



Visit our website at [Payne.com](http://Payne.com)

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