

PERFORMANCE™ SERIES
38MA*R OUTDOOR UNITS



Performance™ Heat Pump with Basepan Heater

FEATURES OUTDOOR

- 100% heating capacity at 5° F (-15° C)
Sizes 9 – 24 (208/230V)
- Available in 115V and 208/230V
- Built-in basepan heater
- Auto-restart function
- Condenser high-temperature protection
- Refrigerant leakage detection
- Quiet outdoor operation, as low as 52.5 dB(A)
- Anti-corrosive fin coating
- Piping length 82 ~ 164 ft. (25 ~ 50 m.)
- Cooling operating range
-13° ~ 122° F (-25° ~ 50° C)
- Heating operating range -22° ~ 86°F
(-30° ~ 30° C) – Sizes 9–24 (208/230V)
-13° ~ 86° F (-25° ~ 30° C) – Size 12 (115V)
and 30, 36 (208/230V)

COMPATIBLE WITH

- 40MAQ High Wall
- 40MBCQ Cassette
- 40MBDQ Ducted
- 40MBFQ Console
- FMA4X Fan Coil
- FMC-FMU Fan Coil
- FV4C Fan Coil

Performance
SERIES



Heat Pump With Basepan Heater

Inverter Compressor

Up to 25 SEER

Up to 12 HSPF

Sizes: 09 / 12 / 18 / 24 / 30 / 36

KEY FEATURES

Extra-Low Temperature Heating

Heat output up to 69% of rated capacity down to -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 heat source.

Rapid Cooling and Heating

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



High Wall



Cassette



Ducted



Floor Console
Size 12



Console
Size 18–58



Vertical Fan Coil
FMA4X



Horizontal Fan Coil
FMC/FMU



Fan Coil
FV4C

PERFORMANCE™ SERIES

38MA*R OUTDOOR UNITS

SPECIFICATIONS:

38MA*R Outdoor Unit								
Heat Pump								
System								
Size		12	9	12	18	24	30	36
Outdoor Model		38MAQB12R--1	38MAQB09R--3	38MAQB12R--3	38MAQB18R--3	38MAQB24R--3	38MAQB30R--3	38MAQB36R--3
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	15	9	9	18	20	20	25
MOCP – Fuse Rating	A	20	15	15	25	30	30	35
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)	-13~122 (-25~50)	-13~122 (-25~50)
Heating Outdoor DB Min - Max	° F (° C)	-13~86 (-25~30)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)	-13~86 (-25~30)	-13~86 (-25~30)
Piping								
Total Piping Length	ft (m)	82 (25)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)	164 (50)
Piping Lift*	ft (m)	32 (10)	32 (10)	32 (10)	65 (20)	65 (20)	82 (25)	82 (25)
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	lb (kg)	2.76 (1.25)	3.31 (1.5)	3.31 (1.5)	4.30 (1.95)	5.73 (2.60)	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)	32.09 (815)	32.09 (815)	32.09 (815)	33.66 (855)	37.24 (946)	37.24 (946)	37.24 (946)
Unit Height	in (mm)	21.81 (554)	21.81 (554)	21.81 (554)	27.63 (702)	31.89 (810)	31.89 (810)	31.89 (810)
Unit Depth	in (mm)	13.11 (333)	13.11 (333)	13.11 (333)	14.17 (360)	16.14 (410)	16.14 (410)	16.14 (410)
Net Weight	lb (kg)	82.9 (37.6)	91.5 (41.5)	91.5 (41.5)	118.2 (53.6)	145.5 (66)	139.8 (63.4)	147.3 (66.8)
Airflow	cfm	1,200	1,200	1,200	1,390	2,130	2,130	2,130
Sound Pressure	dB(A)	52.5	55.5	56.0	57.5	60.5	60.5	60.5

*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
High Wall	40MAQB12B--1	•						
	40MAQB09B--3		•					
	40MAQB12B--3			•				
	40MAQB18B--3				•			
	40MAQB24B--3					•		
	40MAQB36B--3						•	•
Cassette	40MBCQ09---3		•					
	40MBCQ12---3			•				
	40MBCQ18---3				•			
	40MBCQ24---3					•		
	40MBCQ36---3							
	40MBCQ48---3							
Ducted	40MBDQ09---3		•					
	40MBDQ12---3			•				
	40MBDQ18---3				•			
	40MBDQ24---3					•		
	40MBDQ36---3							
	40MBDQ48---3							
Console	40MBFQ12---3			•				
	40MBFQ18---3				•			
	40MBFQ24---3					•		
	40MBFQ36---3							
	40MBFQ48---3							
	40MBFQ58---3							
Vertical Fan Coil	FMA4X1800AL			•	•			
	FMA4X2400AL					•		
	FMA4X3000AL						•	
	FMA4X3600AL							•
Horizontal Fan Coil	FM(C,U)4Z1800AL			•	•			
	FM(C,U)4Z2400AL					•		
	FM(C,U)4Z3000AL						•	
	FM(C,U)4Z3600AL							•
FV4C Fan Coil	FV4CNF002L			•	•	•		
	FV4CN(B,F)003L						•	•

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



PERFORMANCE:

40MAQ High Wall								
Indoor Model		40MAQB12B--1	40MAQB09B--3	40MAQB12B--3	40MAQB18B--3	40MAQB24B--3	40MAQB30B--3	40MAQB36B--3
ENERGY STAR®		YES	YES	YES	YES	YES	NO	NO
Cooling System Tons		1.0	0.75	1.0	1.4	2.0	2.5	3.0
Cooling Rated Capacity	Btu/h	12,000	9,000	12,000	17,000	24,000	30,000	36,000
Cooling Cap. Range Min - Max	Btu/h	4,000~13,000	3,500~13,000	4,000~13,800	4,500~18,800	5,500~24,500	8,000~30,500	8,000~36,200
SEER		22.0	25.0	22.5	20.0	20.5	19.8	16.0
EER		13	14.5	13	12.5	13	11.5	8.6
Heating Rated Capacity (47° F)	Btu/h	12,000	10,900	12,000	18,000	24,000	30,000	36,000
Heating Rated Capacity (17° F)	Btu/h	7,600	6,900	7,800	10,800	15,400	18,500	21,000
Heating Maximum Capacity (17° F)	Btu/h	7,600	10,900	12,000	18,000	24,000	18,500	21,000
Heating Maximum Capacity (5° F)	Btu/h	6,490	10,900	12,000	18,000	24,000	16,380	16,380
Heating Maximum Capacity (-13° F)	Btu/h	3,800	9,020	9,020	16,520	16,520	14,320	14,320
Heating Cap. Range Min - Max	Btu/h	5,000~13,500	4,500~14,500	5,000~15,500	5,500~24,000	6,000~32,000	9,000~34,000	9,000~37,000
HSPF		10.2	11.2	12.0	10.3	11.5	9.4	8.5
COP (47° F)	W/W	3.40	3.80	3.56	3.14	3.10	2.60	2.56
COP (17° F)	W/W	2.60	2.74	2.64	2.64	2.64	2.16	2.12
COP (5° F)	W/W	2.03	2.12	2.12	1.75	1.88	2.20	1.50

PERFORMANCE:

40MBCQ Cassette					
Indoor Model		40MBCQ09---3	40MBCQ12---3	40MBCQ18---3	40MBCQ24---3
ENERGY STAR®		YES	YES	YES	NO
Cooling System Tons		0.75	1.0	1.3	2.0
Cooling Rated Capacity	Btu/h	9,000	12,000	16,000	24,000
Cooling Cap. Range Min - Max	Btu/h	3,500~11,000	4,000~13,000	4,500~18,000	8,500~26,500
SEER		20.0	19.5	20.0	20.0
EER		13.0	12.5	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	6,700	8,700	12,000	16,200
Heating Maximum Capacity (17° F)	Btu/h	9,000	12,000	18,000	24,000
Heating Maximum Capacity (5° F)	Btu/h	9,000	12,000	18,000	24,000
Heating Maximum Capacity (-13° F)	Btu/h	7,320	7,540	12,590	18,500
Heating Cap. Range Min - Max	Btu/h	4,500~11,500	5,000~13,500	5,500~19,000	13,200~32,000
HSPF		10.8	10.6	10.5	11.5
COP (47° F)	W/W	3.30	3.67	3.43	3.46
COP (17° F)	W/W	2.37	2.40	2.55	2.73
COP (5° F)	W/W	1.83	1.84	2.07	1.88



PERFORMANCE:

40MBDQ Ducted					
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	3,500~12,000	4,000~12,900	4,500~18,000	5,500~24,500
SEER		23.0	20.5	19.6	20.5
EER		13.5	12.5	12.5	12.5
Heating Rated Capacity (47° F)	Btu/h	10,000	12,000	19,000	24,000
Heating Rated Capacity (17° F)	Btu/h	7,200	8,500	13,400	17,200
Heating Maximum Capacity (17° F)	Btu/h	10,000	13,000	20,200	25,400
Heating Maximum Capacity (5° F)	Btu/h	10,000	12,000	19,000	24,000
Heating Maximum Capacity (-13° F)	Btu/h	8,350	8,560	12,510	16,520
Heating Cap. Range Min - Max	Btu/h	4,000~15,000	4,500~15,700	5,500~19,000	6,000~26,000
HSPF		12.0	11.0	11.0	12.5
COP (47°F)	W/W	3.60	3.30	2.93	3.82
COP (17°F)	W/W	2.92	2.36	2.71	2.56
COP (5°F)	W/W	1.91	1.79	1.75	1.83

PERFORMANCE:

40MBFQ Console				
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	4,000~13,000	6,830~19,800	8,000~28,150
SEER		19.4	19.9	20.0
EER		12.5	12.5	11.5
Heating Rated Capacity (47° F)	Btu/h	12,000	18,000	24,000
Heating Rated Capacity (17° F)	Btu/h	9,600	13,400	17,200
Heating Maximum Capacity (17° F)	Btu/h	12,000	21,500	26,600
Heating Maximum Capacity (5° F)	Btu/h	12,000	21,300	26,560
Heating Maximum Capacity (-13° F)	Btu/h	8,150	15,670	18,540
Heating Cap. Range Min - Max	Btu/h	5,000~13,500	12,900~29,000	20,500~36,750
HSPF		10.5	10.6	11.5
COP (47° F)	W/W	3.17	3.48	3.52
COP (17° F)	W/W	2.49	2.38	2.82
COP (5° F)	W/W	1.76	1.77	1.81

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