



Turn to the experts

Product Bulletin

Date	Subject	Department
December 14, 2020	Introduction of 38MARB and 40MAHB High Wall Ductless System	Product Marketing
Bulletin Number	Product Model Number(s)	Author Name/Email
101-20-56	38MARB, 40MAHB	Tak Watanabe Tak.Watanabe@carrier.com

Introduction of 38MARB and 40MAHB High Wall Ductless System

Carrier Ductless is announcing the introduction of the new 38MARB and 40MAHB High Wall Ductless System. These new systems feature the improved performance up to 28.1 SEER and up to 13 HSPF on the outdoor units.

These units are available as heat pump from sizes 9 to 36.

The High Wall heat pump indoor units are compatible with the 38MGR Multi-zone heat pump.

The current 38MA*R and 40MA High Wall Ductless System will be phased out in Q1, 2021.

Standard Features

Standard Features Indoor:

- Available in 208/230V (9-36K) in 115V(12K)
- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- Fully Modulating fan speeds
- Sleep Mode
- Up-Down / Right-Left Louver control (fixed or swing)
- **Relative Humidity Sensor**
- **Intelligent Eye (Occupancy Sensor)**
- ECO Mode
- Heating Setback (46° F Heating Mode)
- Anti-corrosive fin coating

Standard Features Outdoor:

- 100% Heating Capacity at -4°F (-20°C) *
- 100% Cooling capacity at -22°F (-30°C) without additional kit
- Available in in 208/230V (9-36K) in 115V(12K)
- Built-in basepan heater
- Auto-restart function
- Anti-corrosive fin coating
- Piping length 213 ft (65m)
- Cooling operating range -22° ~ 130°F (-30° ~ 55°C)
- Heating operating range -22° ~ 86°F (-25° ~ 30°C)

Indoor Unit



Outdoor Unit



* Only size 9 on the 208V model.



Turn to the experts

Product Bulletin

Important Launch Dates:

Each new Outdoor 38MARB and Indoor 40MAHB model will be made available for order on a rolling model basis based on depletion of inventory of the current 38MA*R and 40MA models. This will be on a size by size basis. Please check SAP for Availability.

Item	Dates
Ratings available on AHRI	December 2020
Pricing available	December 2020
Product Data available on HVACpartners	January 2021
Container Direct Initial Orders	December 2020
Inventory available in the US	January 2021

Documentation will be available on <https://catalog.hvacpartners.com/products>

Accessories – High Wall Indoor unit:

KSAIF0601AAA	Wi-Fi™ Kit High Wall Mid-Tier
KSAIC0301230	24V Interface Kit 230V



Turn to the experts

Product Bulletin

Specifications Outdoor – Heat Pump:

Outdoor - Heat Pump						
System	Size		12	9	12	18
	Outdoor Model		38MARBQ12AA1	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3
Electrical	Voltage, Phase, Cycle	V/Ph/Hz	115-1-60	208/230-1-60	208/230-1-60	208/230-1-60
	MCA	A.	19	15	15	16
	MOCP - Fuse Rating	A.	25	15	15	25
Operating Range	Cooling Outdoor DB Min - Max	°F(°C)	-22~130 (-30~55)	-22~130 (-30~55)	-22~130 (-30~55)	-22~130 (-30~55)
	Heating Outdoor DB Min - Max	°F(°C)	-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)
	Piping Lift*	ft (m)	32 (10)	32 (10)	32 (10)	65 (20)
	Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
	Pipe Connection Size - Suction	in (mm)	1/2 (12.7)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)
Refrigerant	Refrigerant Type		R410A	R410A	R410A	R410A
	Charge	lbs (kg)	2.47 (1.12)	2.6 (1.18)	2.6 (1.18)	4.08 (1.85)
	Metering Device		EEV	EEV	EEV	EEV
Outdoor	Unit Width	in (mm)	30.12 (765)	31.69 (805)	31.69 (805)	35.04 (890)
	Unit Height	in (mm)	24.02 (610)	24.21 (615)	24.21 (615)	29.13 (740)
	Unit Depth	in (mm)	11.93 (303)	12.99 (330)	12.99 (330)	13.46 (342)
	Net Weight	lbs (kg)	66.80 (30.3)	74.07 (33.6)	73.63 (33.4)	100.97 (45.8)
	Airflow	CFM	794	1,324	1,324	1,765
	Sound Pressure	dB(A)	54.0	54.5	56.0	59.0

Outdoor - Heat Pump					
System	Size		24	30	36
	Outdoor Model		38MARBQ24AA3	38MARBQ30AA3	38MARBQ36AA3
Electrical	Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60
	MCA	A.	25	23	28
	MOCP - Fuse Rating	A.	35	30	35
Operating Range	Cooling Outdoor DB Min - Max	°F(°C)	-22~130 (-30~55)	-22~130 (-30~55)	-22~130 (-30~55)
	Heating Outdoor DB Min - Max	°F(°C)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)
Piping	Total Piping Length	ft (m)	164 (50)	164 (50)	213 (65)
	Piping Lift*	ft (m)	82 (25)	82 (25)	98 (30)
	Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Pipe Connection Size - Suction	in (mm)	5/8 (16)	5/8 (16)	5/8 (16)
Refrigerant	Refrigerant Type		R410A	R410A	R410A
	Charge	lbs (kg)	5.73 (2.6)	6.06 (2.75)	7.50 (3.40)
	Metering Device		EEV	EEV	EEV
Outdoor	Unit Width	in (mm)	37.24 (946)	37.24 (946)	37.24 (946)
	Unit Height	in (mm)	34.84 (885)	34.84 (885)	34.84 (885)
	Unit Depth	in (mm)	16.14 (410)	16.14 (410)	16.14 (410)
	Net Weight	lbs (kg)	134.48 (61)	141.76 (64.3)	150.13 (68.1)
	Airflow	CFM	2,235	2,235	2,235
	Sound Pressure	dB(A)	62.0	61.5	61.5

* Condensing unit above or below indoor unit



Turn to the experts

Product Bulletin

Specifications Indoor – High Wall:

Heat Pump							
System	Size		12	9	12	18	
	Indoor Model		40MAHBQ12XA1	40MAHBQ09XA3	40MAHBQ12XA3	40MAHBQ18XA3	
Electrical	Voltage, Phase, Cycle		V/Ph/Hz	115-1-60	208/230-1-60	208/230-1-60	
	Power Supply		Indoor unit powered from outdoor unit				
	MCA	A.	0.2500	0.3125	0.3125	0.1625	
Controls	Wireless Remote Controller (°F/°C Convertible)		Standard	Standard	Standard	Standard	
	Wired Remote Controller (°F/°C Convertible)		Optional	Optional	Optional	Optional	
	24V Interface for 3rd Part Thermostat Control		Optional	Optional	Optional	Optional	
	Wi-Fi Control for Phone App Control		Optional	Optional	Optional	Optional	
Operating Range	Cooling Indoor DB Min -Max	°F(°C)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	
	Heating Indoor DB Min -Max	°F(°C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	
Piping	Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	
	Pipe Connection Size - Suction	in (mm)	1/2 (12.7)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	
Indoor	Unit Width	in (mm)	31.3 (795)	31.3 (795)	31.3 (795)	37.99 (965)	
	Unit Height	in (mm)	11.61 (295)	11.61 (295)	11.61 (295)	12.56 (319)	
	Unit Depth	in (mm)	8.86 (225)	8.86 (225)	8.86 (225)	9.41 (239)	
	Net Weight	lbs (kg)	22.93 (10.4)	22.71 (10.3)	22.93 (10.4)	27.12 (12.3)	
	Number of Fan Speeds			4	4	4	4
	Airflow (lowest to highest)	CFM	235/294/353/412	176/229/335/382	176/229/335/382	306/376/524/635	
	Sound Pressure (lowest to highest)	dB(A)	24/30/41/47	32/34/38/47	30/32/37/47	37/40/46/48	

Heat Pump						
System	Size		24	30	36	
	Indoor Model		40MAHBQ24XA3	40MAHBQ30XA3	40MAHBQ36XA3	
Electrical	Voltage, Phase, Cycle		V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60
	Power Supply		Indoor unit powered from outdoor unit			
	MCA	A.	0.6250	0.6250	0.6250	
Controls	Wireless Remote Controller (°F/°C Convertible)		Standard	Standard	Standard	
	Wired Remote Controller (°F/°C Convertible)		Optional	Optional	Optional	
	24V Interface for 3rd Part Thermostat Control		Optional	Optional	Optional	
	Wi-Fi Control for Phone App Control		Optional	Optional	Optional	
Operating Range	Cooling Indoor DB Min -Max	°F(°C)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	
	Heating Indoor DB Min -Max	°F(°C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	
Piping	Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	
	Pipe Connection Size - Suction	in (mm)	5/8 (16)	5/8 (16)	5/8 (16)	
Indoor	Unit Width	in (mm)	44.88 (1140)	44.88 (1140)	44.88 (1140)	
	Unit Height	in (mm)	14.57 (370)	14.57 (370)	14.57 (370)	
	Unit Depth	in (mm)	10.83 (275)	10.83 (275)	10.83 (275)	
	Net Weight	lbs (kg)	43.65 (19.8)	43.65 (19.8)	43.65 (19.8)	
	Number of Fan Speeds			4	4	4
	Airflow (lowest to highest)	CFM	319/414/611/719	382/505/646/843	382/506/639/843	
	Sound Pressure (lowest to highest)	dB(A)	37/39/44/52	38/41/46/52	39/41/46/52	

* Performance may vary based on the Outdoor unit matched to. See compatible Outdoor Units pages for Performance Data



Turn to the experts

Product Bulletin

Combination Chart – Outdoor unit:

INDOOR UNIT		OUTDOOR UNIT					
		38MAQB12R-1 38MARBQ12AA1	38MAQB09R-3 38MARBQ09AA3	38MAQB12R-3 38MARBQ12AA3	38MAQB18R-3 38MARBQ18AA3	38MAQB24R-3 38MARBQ24AA3	38MAQB30R-3 38MARBQ30AA3
High Wall	40MAQB12B-1 40MAHBQ12XA1	•					
	40MAQB09B-3 40MAHBQ09XA3		•				
	40MAQB12B-3 40MAHBQ12XA3			•			
	40MAQB18B-3 40MAHBQ18XA3				•		
	40MAQB24B-3 40MAHBQ24XA3					•	
	40MAQB30B-3 40MAHBQ30XA3						•
Cassette	40MAQB36B-3 40MAHBQ36XA3						•
	40MBCQ09-3		•				
	40MBCQ12-3			•			
	40MBCQ18-3				•		
	40MBCQ24-3					•	
	40MBCQ36-3						•
Ducted	40MBCQ48-3						•
	40MBDQ09-3		•				
	40MBDQ12-3			•			
	40MBDQ18-3				•		
	40MBDQ24-3					•	
	40MBDQ36-3						•
Console	40MBDQ48-3						•
	40MBDQ58-3						•
	40MBFQ12-3			•			
	40MBFQ18-3				•		
	40MBFQ24-3					•	
	40MBFQ36-3						•
40MBFQ48-3						•	
40MBFQ58-3						•	

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

Combination Chart – High Wall Indoor unit:

Indoor Unit	40MAHBQ12XA1	40MAHBQ09XA3	40MAHBQ12XA3	40MAHBQ18XA3	40MAHBQ24XA3	40MAHBQ30XA3	40MAHBQ36XA3
Outdoor Unit Single Zone	38MARBQ12AA1	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3	38MARBQ30AA3	38MARBQ36AA3
Outdoor Unit Multi-zone		38MGRQ18B--3					
		38MGRQ24C--3					
		38MGRQ30D--3					
		38MGRQ36D--3					
		38MGRQ48E--3					

Note: Backward compatible with 38MA*R Single Zone Systems

Product Specifications

This bulletin includes product specifications and combinations to provide product guidance until Product Data sheets become available in January 2021.



Turn to the experts

Product Bulletin

High Wall Heat Pump Systems Performance

High Wall	Indoor Model		40MAHBQ12XA1	40MAHBQ09XA3	40MAHBQ12XA3	40MAHBQ18XA3
	Outdoor Model		38MARBQ12AA1	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3
	Energy Star		YES	YES	YES	YES
	Cooling Rated Capacity	Btu/h	12,000	9,000	12,000	18,000
	SEER		23.0	28.1	25.5	21.5
	EER		13	16.2	14	12.5
	Heating Rated Capacity (47°F)	Btu/h	12,100	11,800	12,000	18,000
	Heating Rated Capacity (17°F)	Btu/h	7,400	7,500	7,500	10,800
	Heating Maximum Capacity (17°F)	Btu/h	12,200	12,000	12,000	14,000
	Heating Maximum Capacity (5°F)	Btu/h	7,100	10,500	12,000	18,000
	HSPF		11.5	13.0	13.0	13.0
	COP (47°F)	W/W	3.70	3.81	3.81	3.10
	COP (17°F)	W/W	2.67	3.00	3.00	2.80
	COP (5°F)	W/W	2.18	1.80	1.75	1.78

High Wall	Indoor Model		40MAHBQ24XA3	40MAHBQ30XA3	40MAHBQ36XA3
	Outdoor Model		38MARBQ24AA3	38MARBQ30AA3	38MARBQ36AA3
	Energy Star		YES	NO	NO
	Cooling Rated Capacity	Btu/h	24,000	30,000	36,000
	SEER		21.5	20.0	17.5
	EER		13	11.5	8.5
	Heating Rated Capacity (47°F)	Btu/h	29,000	30,000	36,000
	Heating Rated Capacity (17°F)	Btu/h	19,800	19,000	22,400
	Heating Maximum Capacity (17°F)	Btu/h	24,480	20,670	23,600
	Heating Maximum Capacity (5°F)	Btu/h	25,400	17,200	20,400
	HSPF		12.0	9.6	9.0
	COP (47°F)	W/W	3.40	2.60	2.51
	COP (17°F)	W/W	3.05	2.25	2.18
	COP (5°F)	W/W	1.75	1.75	1.75

Cassette Heat Pump Systems Performance

Cassette	Indoor Model		40MBCQ09---3	40MBCQ12---3	40MBCQ18---3	40MBCQ24---3
	Outdoor Model		38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3
	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
	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
	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



Turn to the experts

Product Bulletin

Ducted Heat Pump Systems Performance

Ducted	Indoor Model		40MBDQ09---3	40MBDQ12---3	40MBDQ18---3	40MBDQ24---3
	Outdoor Model		38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3
	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
	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
	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

Console Heat Pump Systems Performance

Console	Indoor Model		40MBFQ12---3	40MBFQ18---3	40MBFQ24---3
	Outdoor Model		38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3
	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
	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
	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

Air Handler Heat Pump Systems Performance

Air Handler	Indoor Model		40MBAAQ24XA3
	Outdoor Model		38MARBQ24AA3
	Energy Star		YES
	Cooling System Tons		2.0
	Cooling Rated Capacity	Btu/h	24,000
	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
	HSPF		11.6
	COP (47°F)	W/W	3.77
COP (17°F)	W/W	2.60	
COP (5°F)	W/W	1.75	