

# Outdoor Unit Multi-zone Heat Pump Ductless System

Outdoor Model: **38MGRBQ48EA3**

## Submittal Data

Job Data:	<input type="text"/>	Location:	<input type="text"/>
Buyer:	<input type="text"/>	Buyer P.O. #:	<input type="text"/>
Unit Number:	<input type="text"/>	Carrier #:	<input type="text"/>
Performance Data Certified By:	<input type="text"/>	Model Number:	<input type="text"/>
		Date:	<input type="text"/>

### MULTI-ZONE OUTDOOR STANDARD FEATURES:

- Connect 2 to 5, multiple style indoor units
  - High Wall ≤36K
  - Cassette ≤24K
  - Ducted ≤24K
  - Console ≤24K

- Variable Speed (Inverter) Compressor
- Basepan Heater factory installed
- Quiet operation
- Aluminum Hydrophilic pre-coated fins

Cooling operating range -22°~122° F (-30°~50° C)  
 Heating operating range -22°~75° F (-30°~24° C)  
 • 76% Heating Capacity Maintenance at 5° F (-15° C)  
 • 51% Heating Capacity Maintenance at -22° F (-30° C)

### LIMITED WARRANTY\*

- 10 year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years
- \*For residential applications. See warranty for full details.



Operating Range	Cooling Outdoor DB Min - Max	°F(°C)	-22~122 (-30~50)
	Heating Outdoor DB Min - Max	°F(°C)	-22~75 (-30~24)
Piping	Total Piping Length	ft (m)	328 (100)
	Piping to furthest FCU	ft (m)	115 (35)
	Drop (OD above ID)	ft (m)	65 (20)
	Lift (OD below ID)	ft (m)	65 (20)
	Pipe Connection Size - Liquid	in (mm)	1/4*5(6.35*5)
	Pipe Connection Size - Suction	in (mm)	1/2 *2+ 3/8*3(12.7*2+9.52*3)
Refrigerant	Type		R410A
	Charge	lbs (kg)	10.14 (4.6)
	Metering Device		EXV
Electrical	Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60
	Power Supply		Indoor unit powered from outdoor unit
	MCA	A.	40
	Recommended Fuse Size	A.	45
	MOPA - Fuse Rating	A.	60
Compressor	Type		R410A
	Model		ATQ360D1UMU
	Oil Type		ESTER OIL VG74
	Oil Charge	Fl. Oz.	47.4
	Rated Current	RLA	24.0
Outdoor	Unit Width	in (mm)	37.48 (952)
	Unit Height	in (mm)	52.48 (1333)
	Unit Depth	in (mm)	16.34 (415)
	Net Weight	lbs (kg)	225.5 (102.3)
	Airflow	CFM	4,500
	Sound Pressure	dB(A)	64

# Specifications

System	Size	48R	
	Outdoor Model	38MGRBQ48EA3	
	Max Number of Zones	5	
Performance Non-Ducted	Energy Star	YES	
	Cooling System Tons	4	
	Cooling Rated Capacity	Btu/h	48,000
	Cooling Cap. Range Min - Max	Btu/h	19,000~50,000
	SEER	22.4	
	EER	12.5	
	Heating Rated Capacity (47°F)	Btu/h	48,000
	Heating Rated Capacity (17°F)	Btu/h	29,600
	Heating Rated Capacity (5°F)	Btu/h	29,500
	Heating Maximum Capacity (5°F)	Btu/h	36,000
	Heating Cap. Range Min - Max	Btu/h	12,500~52,000
	HSPF	11	
	COP (47°F)	W/W	3.60
	COP (17°F)	W/W	2.60
	COP (5°F) - Rated	W/W	1.80
Performance Combination Ducted and Non-Ducted	Energy Star	NO	
	Cooling System Tons	4	
	Cooling Rated Capacity	Btu/h	48,000
	Cooling Cap. Range Min - Max	Btu/h	19,200~50,500
	SEER	21.5	
	EER	11.3	
	Heating Rated Capacity (47°F)	Btu/h	49,000
	Heating Rated Capacity (17°F)	Btu/h	29,300
	Heating Rated Capacity (5°F)	Btu/h	28,700
	Heating Maximum Capacity (5°F)	Btu/h	36,000
	Heating Cap. Range Min - Max	Btu/h	14,000~54,000
	HSPF	10.55	
	COP (47°F)	W/W	3.59
	COP (17°F)	W/W	2.61
	COP (5°F) - Rated	W/W	1.70
Performance Ducted	Energy Star	NO	
	Cooling System Tons	4	
	Cooling Rated Capacity	Btu/h	48,000
	Cooling Cap. Range Min - Max	Btu/h	19,400~51,000
	SEER	20.5	
	EER	10.1	
	Heating Rated Capacity (47°F)	Btu/h	50,000
	Heating Rated Capacity (17°F)	Btu/h	29,000
	Heating Rated Capacity (5°F)	Btu/h	28,000
	Heating Maximum Capacity (5°F)	Btu/h	36,000
	Heating Cap. Range Min - Max	Btu/h	15,500~56,000
	HSPF	10.1	
	COP (47°F)	W/W	3.57
	COP (17°F)	W/W	2.62
	COP (5°F) - Rated	W/W	1.70

# Rated Combinations

Two Zones	Three Zones			Four Zones		
9+18	6+6+24	12+12+12	9+18+36	6+6+6+18	6+9+24+24	9+12+18+18
9+24	6+9+12	12+12+18	12+12+30	6+6+6+24	6+12+12+24	9+18+18+18
12+12	6+9+18	12+12+24	12+12+36	6+6+9+12	6+12+12+18	12+12+12+12
12+18	6+9+24	12+18+18	12+18+30	6+6+9+18	6+12+12+24	12+12+12+18
12+24	6+12+18	12+18+24		6+6+9+24	6+12+18+18	12+12+12+24
18+18	6+12+24	12+24+24		6+6+12+12	6+12+18+24	12+12+18+18
18+24	6+18+18	18+18+18		6+6+12+18	6+18+18+18	6+6+6+30
24+24	6+18+24	18+18+24		6+6+12+24	9+9+9+9	6+6+9+30
6+36	6+24+24	6+6+30		6+6+18+18	9+9+9+12	6+6+12+30
9+36	9+9+9	6+6+36		6+6+18+24	9+9+9+18	6+9+9+30
12+36	9+9+12	6+12+30		6+9+9+9	9+9+9+24	9+9+9+30
18+36	9+9+18	6+12+36		6+9+9+12	9+9+12+12	9+9+9+30
24+36	9+9+24	6+18+30		6+9+9+18	9+9+12+18	9+9+12+30
6+30	9+12+12	6+18+36		6+9+9+24	9+9+12+24	6+6+6+36
9+30	9+12+18	9+9+30		6+9+12+12	9+9+18+18	6+6+9+36
12+30	9+12+24	9+9+36		6+9+12+18	9+9+18+24	6+6+12+36
18+30	9+18+18	9+12+30		6+9+12+24	9+12+12+12	6+9+9+36
24+30	9+18+24	9+12+36		6+9+18+18	9+12+12+18	9+9+9+36
30+30	9+24+24	9+18+30		6+9+18+24	9+12+12+24	

# Rated Combinations (cont'd)

Five Zones						
6+6+6+6+6	6+6+6+12+12	6+9+9+9+12	6+9+9+18+18	6+12+12+12+18	9+9+9+12+18	12+12+12+12+12
6+6+6+6+9	6+6+6+12+18	6+9+9+9+18	6+9+12+12+12	9+9+9+9+9	9+9+9+18+18	
6+6+6+6+12	6+6+6+12+24	6+9+9+9+24	6+9+12+12+18	9+9+9+9+12	9+9+12+12+12	
6+6+6+6+18	6+6+6+18+18	6+9+9+12+12	6+9+12+12+24	9+9+9+9+18	9+9+12+12+18	
6+6+6+6+24	6+6+6+18+24	6+9+9+12+18	6+9+12+18+18	9+9+9+9+24	9+12+12+12+12	
6+6+6+9+12	6+9+9+9+9	6+9+9+12+24	6+12+12+12+12	9+9+9+12+12	9+12+12+12+18	

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