

# Outdoor Unit Multi-zone Heat Pump Ductless System

Outdoor Model: **38MGRQ48E--3**

## Submittal Data

Job Data:

Location:

Buyer:  Buyer P.O. #:

Carrier #:

Unit Number:

Model Number:

Performance Data Certified By:

Date:



### MULTI-ZONE STANDARD FEATURES

Features Outdoor:

- Connect up to 5, multiple style indoor units
  - High Wall
  - Cassette
  - Ducted
  - Console
  - Air Handler
- Variable Speed (Inverter) Compressor
- Basepan Heater factory installed
- Quiet operation
- Aluminum Hydrophilic pre-coated fins

Cooling operating range -13°~122° F (-25°~50° C)  
 Heating operating range -22°~86° F (-30°~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.



### Compatibility Table

For matched compatibility see Product Data

INDOOR UNIT			
High Wall	40MPHAQ09XA3	619PHAQ09XA3	DHMPHAQ09XA3
	40MPHAQ12XA3	619PHAQ12XA3	DHMPHAQ12XA3
	40MAQB09B--3	619PEQ009BBMA	DHMSHAQ09XA3
	40MAQB12B--3	619PEQ012BBMA	DHMSHAQ12XA3
	40MAQB18B--3	619PEQ018BBMA	DHMSHAQ18XA3
	40MAQB24B--3	619PEQ024BBMA	DHMSHAQ24XA3
	40MAHBQ09XA3	619AHBQ09XA3	DHMAHBQ09XA3
	40MAHBQ12XA3	619AHBQ12XA3	DHMAHBQ12XA3
	40MAHBQ18XA3	619AHBQ18XA3	DHMAHBQ18XA3
	40MAHBQ24XA3	619AHBQ24XA3	DHMAHBQ24XA3
	40MHHQ09---3		
	40MHHQ12---3		
	40MHHQ18---3		
	40MHHQ24---3		
Cassette	40MBQB09C--3	619REQ009CBMA	40MBCQ09---3
	40MBQB12C--3	619REQ012CBMA	40MBCQ12---3
	40MBQB18C--3	619REQ018CBMA	40MBCQ18---3
			40MBCQ24---3
Ducted	40MBQB09D--3	619REQ009DBMA	40MBDQ09---3
	40MBQB12D--3	619REQ012DBMA	40MBDQ12---3
	40MBQB18D--3	619REQ018DBMA	40MBDQ18---3
	40MBQB24D--3	619REQ024DBMA	40MBDQ24---3
Console	40MBQB09F--3	619REQ009FBMA	40MBFQ09---3
	40MBQB12F--3	619REQ012FBMA	40MBFQ12---3
			40MBFQ18---3

PHASED OUT  
INDOOR UNITS

			40MBFQ24---3
Air Handler	40MBAAQ24XA3		

# Specifications

System	Size	48	
	Outdoor Model	38MGRQ48E--3	
	Max Number of Zones	5	
Performance Non-Ducted	Energy Star	YES	
	Cooling System Tons	4.0	
	Cooling Rated Capacity	Btu/h	48,000
	Cooling Cap. Range Min - Max	Btu/h	8,560~53,160
	SEER	22.4	
	EER	12.5	
	Heating Rated Capacity (47°F)	Btu/h	48,000
	Heating Maximum Capacity (5°F)	Btu/h	37,290
	Heating Cap. Range Min - Max	Btu/h	7,210~55,820
	HSPF	10.2	
	COP (47°F)	W/W	3.6
	COP (5°F)	W/W	1.96
	Performance Combination Ducted and Non-Ducted	Energy Star	NO
Cooling System Tons		4.0	
Cooling Rated Capacity		Btu/h	48,500
Cooling Cap. Range Min - Max		Btu/h	8,510~52,580
SEER		21.45	
EER		11.3	
Heating Rated Capacity (47°F)		Btu/h	49,000
Heating Maximum Capacity (5°F)		Btu/h	37,045
Heating Cap. Range Min - Max		Btu/h	7,045~54,935
HSPF		10.85	
COP (47°F)		W/W	3.5
COP (5°F)		W/W	1.89
Performance Ducted		Energy Star	NO
	Cooling System Tons	4.1	
	Cooling Rated Capacity	Btu/h	49,000
	Cooling Cap. Range Min - Max	Btu/h	8,460~52,000
	SEER	20.5	
	EER	10.1	
	Heating Rated Capacity (47°F)	Btu/h	50,000
	Heating Maximum Capacity (5°F)	Btu/h	36,800
	Heating Cap. Range Min - Max	Btu/h	6,880~54,050
	HSPF	11.5	
	COP (47°F)	W/W	3.4
COP (5°F)	W/W	1.82	

Operating Range	Cooling Outdoor DB Min - Max	°F(°C)	-13~122 (-25~50)
	Heating Outdoor DB Min - Max	°F(°C)	-22~86 (-30~30)
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)	10.13 (4.6)
	Metering Device	EEV	
Electrical	Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60
	Power Supply	Indoor unit powered from outdoor unit	
	MCA	A.	35
	MOCP - Fuse Rating	A.	50
Compressor	Type	R410A	
	Model	ATQ360D1UMU	
	Oil Type	ESTER OIL VG74	
	Oil Charge	Fl. Oz.	49.38
	Rated Current	RLA	21
Outdoor	Unit Width	in (mm)	41.15 (1045)
	Unit Height	in (mm)	52.48 (1333)
	Unit Depth	in (mm)	17.63 (448)
	Net Weight	lbs (kg)	223.8 (101.5)
	Airflow	CFM	4500
	Sound Pressure	dB(A)	64

# Rated Combinations

Two Zones	Three Zones	Four Zones	Five Zones
9+18	9+9+9	9+9+9+9	9+9+9+9+9
9+24	9+9+12	9+9+9+12	9+9+9+9+12
12+12	9+9+18	9+9+9+18	9+9+9+9+18
12+18	9+9+24	9+9+9+24	9+9+9+9+24
12+24	9+12+12	9+9+12+12	9+9+9+12+12
18+18	9+12+18	9+9+12+18	9+9+9+12+18
18+24	9+12+24	9+9+12+24	9+9+9+18+18
24+24	9+18+18	9+9+18+18	9+9+12+12+12
	9+18+24	9+9+18+24	9+9+12+12+18
	9+24+24	9+12+12+12	9+12+12+12+12
	12+12+12	9+12+12+18	9+12+12+12+18
	12+12+18	9+12+12+24	12+12+12+12+12
	12+12+24	9+12+18+18	
	12+18+18	9+18+18+18	
	12+18+24	12+12+12+12	
	12+24+24	12+12+12+18	
	18+18+18	12+12+12+24	
	18+18+24	12+12+18+18	

# Construction View

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