

Haier



 **GE APPLIANCES**
a Haier company

AIR & WATER
SOLUTIONS

 **MRV-S**
SERIES

2022

MRV-S Key Features



High Efficiency

- Highly efficient full DC inverter compressor and fan motor
- 21" serrated-edge fan blade allows higher air movement at a lower sound level
- Large coil and 2-stage sub cooling circuit increase performance when the demand is high
- Air cooled electrical box helps increase reliability

Easy to Install

- Built-in handles and designed skid for handling and rigging ease
- Two-pipe refrigerant lines save time and resources
- Multiple piping connections simplify any jobsite condition
- Optional branch connector kits allow using FlexFit indoor units for application flexibility

Optimized Comfort

- PID pressure sensor enables more precise temperature control
- Non-reversing 4-way valve avoids temperature fluctuation and component stresses
- Night time mode for quiet operation

Outdoor Unit Specifications

Model Number	MVHP036MV2AA	MVHP048MV2AA	MVHP056MV2AA	
Cooling Non-ducted	Rated Capacity Btu/hr	36,000	48,000	56,000
	Capacity Range Btu/hr	7,000-36,000	7,000-48,000	7,000-56,000
	Rated Power Input W	3,330	4,800	5,580
	SEER	16.0	16.0	16.0
	EER	10.9	10.0	10.0
Cooling Ducted	Rated Capacity Btu/hr	36,000	48,000	56,000
	Capacity Range Btu/hr	7,000-36,000	7,000-48,000	7,000-56,000
	Rated Power Input W	3,330	4,800	5,580
	SEER	16.0	16.0	16.0
	EER	10.9	10.0	10.0
Heating Non-ducted	Rated Heating Capacity 47°F Btu/hr	40,000	54,000	60,000
	Heating Capacity Range Btu/hr	8,000-40,000	8,000-59,000	8,000-63,000
	Rated Power Input W	3,480	5,250	6,150
	HSPF	10.0	10.0	10.0
	Rated Heating Capacity 17°F Btu/hr	24,000	32,400	36,400
	Max. Heating Capacity 17°F Btu/hr	25,600	35,000	38,000
	Max. Heating Capacity 5°F Btu/hr	22,400	30,400	33,000
	Max. Heating Capacity -4°F Btu/hr	21,880	29,540	32,280
	Rated Heating Capacity 47°F Btu/hr	39,500	54,000	60,000
Heating Ducted	Heating Capacity Range Btu/hr	8,000-40,000	8,000-58,000	8,000-62,000
	Rated Power Input W	3,480	5,250	6,150
	HSPF	10.0	10.0	10.0
	Rated Heating Capacity 17°F Btu/hr	23,800	32,400	36,400
	Max. Heating Capacity 17°F Btu/hr	25,000	35,000	38,000
	Max. Heating Capacity 5°F Btu/hr	22,400	30,400	33,000
	Max. Heating Capacity -4°F Btu/hr	21,880	29,540	32,280
	Rated Heating Capacity 47°F Btu/hr	39,500	54,000	60,000
	Heating Capacity Range Btu/hr	8,000-40,000	8,000-58,000	8,000-62,000
Operating Range	Cooling °F(°C)	23-115(-5~46)	23-115(-5~46)	23-115(-5~46)
	Heating °F(°C)	-4~75(-20~24)	-4~75(-20~24)	-4~75(-20~24)
Power Supply	Voltage, Cycle, Phase V/Hz/-	208/230-60-1	208/230-60-1	208/230-60-1
Compressor Type	Compressor Type	DC Inverter Driven Rotary		
Electrical	Maximum Fuse Size A	30	40	40
	Minimum Circuit Amp A	25.4	37.8	38.8
Sound Pressure	Outdoor Noise Level dB	54	55	55
Unit	Dimension: HxWxD in (mm)	52 3/4(1340) x 37 3/8(950) x14 5/8(370)		
	Weight (Ship/Net)- lbs (kg)	265/247(120/112)	271/254(123/115)	271/254(123/115)
Connection Ratio	Max Indoor units	6	8	9
	Connectable Indoor Unit Ratio (%)	50-130%		
Refrigerant Line	Connections	Flare		
	Liquid / Suction O.D. in	3/8", 5/8"		
	Factory Charge Oz	123.0	141.0	141.0
	Maximum Line Length Ft / m	492/150 (984/300*)	492/150 (984/300*)	492/150 (984/300*)
	Maximum Height Ft / m	98/30 (164/50*)	98/30 (164/50*)	98/30 (164/50*)
Maximum Line Length for each individual indoor unit Ft / m	262/80 (492/150*)	262/80 (492/150*)	262/80 (492/150*)	

*If exceeding the following limits, you must contact your local distributor or dealer for individual design and separate order. Line length, ft/m: 492/150
Line height, ft/m: 98/30
Line length, individual unit, ft/m: 262/80

Indoor Unit Specifications

Indoor Unit Specifications

Indoor Type	Model Number	Grille Model	Nominal Cooling Capacity Btu/hr	Nominal Heating Capacity Btu/hr	Voltage, Cycle Phase V/Hz/-	Line Size (in)	Drain Pump	Max. Drain Lift Height (in)	Max Static in.W.G (Pa)	Dimension Height x WidthxDepth (in)
Wall Mount 	MVAW007MV2AA	/	7000	8600	208/230-60-1	1/4", 1/2"	No	/	/	11 x 33.7 x 7.9
	MVAW009MV2AA	/	9000	10600	208/230-60-1	1/4", 1/2"	No	/	/	11 x 33.7 x 7.9
	MVAW012MV2AA	/	12000	13600	208/230-60-1	1/4", 1/2"	No	/	/	11 x 33.7 x 7.9
	MVAW018MV2AA	/	18000	20000	208/230-60-1	1/4", 1/2"	No	/	/	13.2 x 43.9 x 9.6
	MVAW024MV2AA	/	24000	27000	208/230-60-1	3/8", 5/8"	No	/	/	13.2 x 43.9 x 9.6
	MVAW030MV2AA	/	30000	34000	208/230-60-1	3/8", 5/8"	No	/	/	14.4 x 51.8 x 10.6
Compact Cassette 	MVAB005MV2AA	PB-620KB	5000	5800	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	11 1/4 x 22 7/16 x 22 7/16
	MVAB007MV2AA		7500	8500	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	11 1/4 x 22 7/16 x 22 7/16
	MVAB009MV2AA		9000	10000	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	11 1/4 x 22 7/16 x 22 7/16
	MVAB012MV2AA		12000	13500	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	11 1/4 x 22 7/16 x 22 7/16
	MVAB018MV2AA		18000	21000	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	11 1/4 x 22 7/16 x 22 7/16
Large Cassette 	MVAL009MV2AA	PB-950KB*	9000	10000	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	7 3/16 x 33 1/16 x 33 1/16
	MVAL012MV2AA		12000	13500	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	7 3/16 x 33 1/16 x 33 1/16
	MVAL018MV2AA		18000	21000	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	7 3/16 x 33 1/16 x 33 1/16
	MVAL024MV2AA		24000	27000	208/230-60-1	1/4", 5/8"	Yes	27 9/16	/	7 3/16 x 33 1/16 x 33 1/16
	MVAL030MV2AA		30000	34000	208/230-60-1	1/4", 5/8"	Yes	27 9/16	/	7 3/16 x 33 1/16 x 33 1/16
One-Way Cassette 	MVAO005ME2AA	PB-1050IB	5100	5800	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	7 3/4 x 37 1/2 x 19 7/8
	MVAO007ME2AA		7500	8500	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	7 3/4 x 37 1/2 x 19 7/8
	MVAO009ME2AA		9600	10900	208/230-60-1	1/4", 1/2"	Yes	27 9/16	/	7 3/4 x 37 1/2 x 19 7/8
	MVAO012ME2AA		12300	13600	208/230-60-1	3/8", 5/8"	Yes	27 9/16	/	7 3/4 x 37 1/2 x 19 7/8
Slim Duct 	MVAD007MV2AA	PAD0890RA (Return air grille) PAD0890SA (Supply air grille)	7000	8500	208/230-60-1	1/4", 1/2"	Yes	27 9/16	0.12 (30)	7 5/16 x 33 7/16 x 16 9/16
	MVAD009MV2AA		9000	10500	208/230-60-1	1/4", 1/2"	Yes	27 9/16	0.12 (30)	7 5/16 x 33 7/16 x 16 9/16
	MVAD012MV2AA		12000	13500	208/230-60-1	1/4", 1/2"	Yes	27 9/16	0.12 (30)	7 5/16 x 33 7/16 x 16 9/16
	MVAD018MV2AA	PAD1210RA (Return air grille) PAD1210SA (Supply air grille)	18000	20000	208/230-60-1	1/4", 1/2"	Yes	27 9/16	0.12 (30)	7 5/16 x 46 1/16 x 16 9/16
	MVAD024MV2AA		24000	27000	208/230-60-1	3/8", 5/8"	Yes	27 9/16	0.12 (30)	7 5/16 x 46 1/16 x 16 9/16

Indoor Type	Model Number	Grille Model	Nominal Cooling Capacity Btu/hr	Nominal Heating Capacity Btu/hr	Voltage, Cycle Phase V/Hz/-	Line Size (in)	Drain Pump	Max. Drain Lift Height (in)	Max Static in.W.G (Pa)	Dimension Height x WidthxDepth (in)
Medium Static Ducted 	MVAM007ME2AA	/	7000	8500	208/230-60-1	1/4", 1/2"	Yes	/	0.6	9 3/4 x 27 1/2 x 27 1/2
	MVAM009ME2AA	/	9000	10500	208/230-60-1	1/4", 1/2"	Yes	/	0.6	9 3/4 x 27 1/2 x 27 1/2
	MVAM012ME2AA	/	12000	13500	208/230-60-1	1/4", 1/2"	Yes	/	0.6	9 3/4 x 43 1/4 x 27 1/2
	MVAM018ME2AA	/	18000	20000	208/230-60-1	1/4", 1/2"	Yes	/	0.6	9 3/4 x 59 x 27 1/2
	MVAM024ME2AA	/	24000	27000	208/230-60-1	3/8", 5/8"	Yes	/	0.6	9 3/4 x 59 x 27 1/2
	MVAM036ME2AA	/	36000	40000	208/230-60-1	1/4", 1/2"	Yes	/	0.6	9 3/4 x 59 x 27 1/2
	MVAM048ME2AA	/	48000	54000	208/230-60-1	3/8", 5/8"	Yes	/	0.6	9 3/4 x 59 x 27 1/2
	MVAM054ME2AA	/	54000	60000	208/230-60-1	3/8", 5/8"	Yes	/	0.6	9 3/4 x 59 x 27 1/2



Haier controls allow the user to take command of their environment. With convenient user-friendly button layouts and clear graphic displays, the system can be easily set to meet and maintain all comfort needs.

Remote Controller

- Individual indoor unit control
- Multi-directional louver control
- Child lock
- Indoor LED display
- Precise temp control (+/-1F)
- Backlight
- Individual louver control*

*Large Cassette only



YR-HBS01
(Large Cassette only)



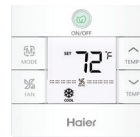
YR-HG

Wired Controller

- Individual and group control
- 5 operation modes
- Precise temp control +/- 1F (0.5C)
- Turbo and quiet mode for comfort
- Airflow direction control
- Filter change reminder
- Backlight
- Energy saving feature
- Static pressure control



YR-E16B



QACT17A

Central Controller

- 7-inch TFT LCD touch screen
- Weekly timer
- Individual and group control
- Max. 256 indoor units
- Historical data backup
- Energy saving feature
- Ancillary equipment control



YCZ-A004

- Protocol adapter for RS-485 conversion
- IGU05 Adapter required with YCZ-A004 one IGU05



IGU-05

BMS Central Controller

- Centralized Control Solution for MRV Systems
- Runs the MRV Supervisor System Software
- Connect up to 32MRV5 or MRVS systems
- Connect up to 128 MRV indoor units
- Supports BACnet IP Protocol
- Optional tenant metering function (requires the use of the IGU-02 gateway)



HCM-05

BACnet Gateway

- Centralized control solution for MRV systems
- Control and monitor MRV equipment from 3rd party BACnet front end
- Supports BACnet IP protocol
- Connect up to 4 MRV5 or MRVS systems
- Connect up to 128 MRV indoor units



HCM-04

The Haier ductless wind baffle is fabricated from durable 20 gauge G90 galvanized steel. Color-matched and powder coated to blend beautifully with Haier ductless outdoor units, the wind baffle is engineered to provide optimal performance when operating in cold, harsh climates.



Ductless Wind Baffle

Compatible with these outdoor units:

Series	Outdoor Model #	Wind Baffle Model #
MRV	MVHP036MV2AA	QAWB38A (Requires 2)
	MVHP048MV2AA	QAWB38A (Requires 2)
	MVHP056MV2AA	QAWB38A (Requires 2)

Panels



PB-620KB
Panel for 2'x2' MRV Cassette
Must order PB-620KB separately with the purchase of Compact Cassette models:
MVAB009MV2AA
MVAB012MV2AA
MVAB018MV2AA



PB-950KB
Panel for 3'x3' MRV Cassette Must order PB-950KB separately with the purchase of Large Cassette models: MVAL009MV2AA
MVAL012MV2AA
MVAL018MV2AA
MVAL024MV2AA
MVAL030MV2AA
MVAL036MV2AA
MVAL042MV2AA
MVAL048MV2AA



PB-1050IB
Panel for one way MRV Cassette
Must order PB-1050IB separately with the purchase of one-way cassette models:
MVA005ME2AA
MVA007ME2AA
MVA009ME2AA
MVA012ME2AA

Return Air Grilles



PAD0890RA (with filter)
Optional return air grille for Slim Duct models:
MVAD007MV2AA
MVAD009MV2AA
MVAD012MV2AA

PAD1210RA (with filter)
Optional return air grille for Slim Duct models:
MVAD018MV2AA
MVAD024MV2AA

Supply Air Grilles



PAD0890SA
Optional supply air grille for Slim Duct models:
MVAD007MV2AA
MVAD009MV2AA
MVAD012MV2AA

PAD1210SA
Optional supply air grille for Slim Duct models:
MVAD018MV2AA
MVAD024MV2AA

Name	Picture	Model	Functions
Manifold Pipe		FQG-B335A	• Refrigerant branch piping

Your customers turn to you for great results, so offer them the performance and support you can only get from Haier!

Limited Warranty

At Haier we take pride in our workmanship, which is why we offer one of the best warranties in the industry. Standard coverage is a 7-year limited warranty on the compressor and a 5-year limited warranty on parts. When you register your Mini VRF system within 60 days of installation, your coverage will increase to a 10-year limited warranty on the compressor and a 10-year limited warranty on parts. To register your equipment, go to www.haierductless.com > support > product registration.

Training

We're with you every step of the way, from theory to application. Through the Haier HVAC Training Center, we support distributors and contractors with everything from service to installation to sales. For those who prefer to learn in the field, our Regional Training Program matches professionals with experienced trainers.

Support

You can always rely on Haier to guide you through warranty processing, parts ordering, product installation, technical documentation and more.



Rebates

With their high SEER and EER ratings, Haier ductless systems could earn your customers very attractive rebates.

Learn more by visiting:

Database of State Incentives for Renewables & Efficiency
dsireusa.org

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