

MVHR072ME2CA

MRV 5 Series Heat Recovery
6 Tons



Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction

Specifications

Performance¹

Cooling Capacity	69,000 Btu/h
Heating Capacity	77,000 Btu/h
EER (ducted/non-ducted)	11.9/13.0
IEER (ducted/non-ducted)	20.0/24.5
SCHE (ducted/non-ducted)	23.6/28.0
COP 47F (ducted/non-ducted)	3.6/3.6

Technical Details

Compressor Type	DC Inverter x 1
Compressor RLA	16.7
Condenser Fan Qty	1
Condenser Fan Type	Propeller
Condenser Fan CFM	7,900
Factory Refrigerant Charge	31.97 lbs.

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	29.3A
Maximum Overcurrent Protection	40A

Sound Levels

Sound Power Level, dB(A)	77
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Dimensions

Height (in.)	66 1/2
Width (in.)	38 5/8
Depth (in.)	29 1/2
Weight (lb.)	597

Piping

Connections, Liquid/Gas	1/2" x 1"
Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

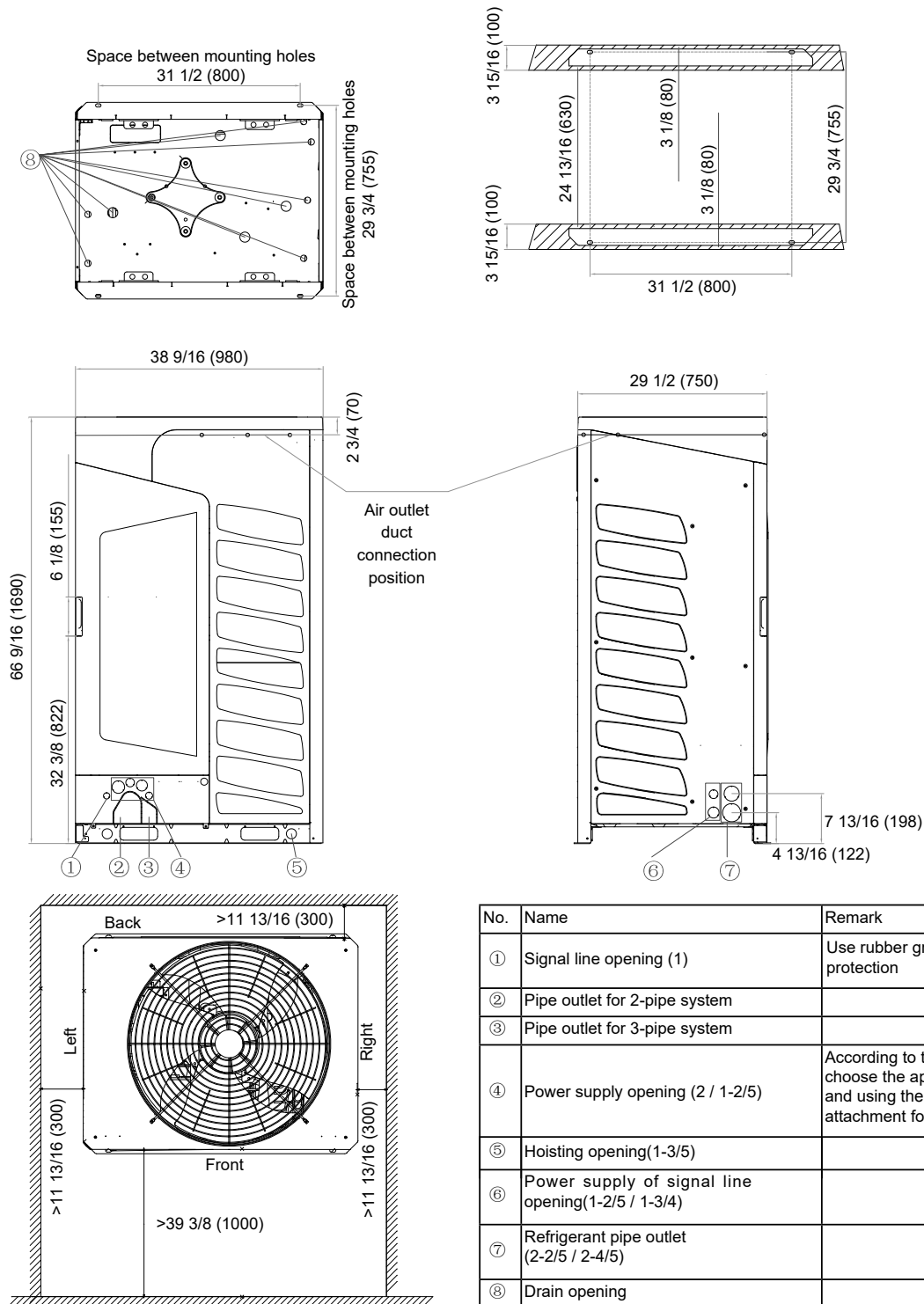
MRV-S
SERIES



Dimensional Drawings

MVHR072ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening(1-3/5)	
⑥	Power supply of signal line opening(1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR096ME2CA

MRV 5 Series Heat Recovery
8 Tons



Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction

Specifications

Performance¹

Cooling Capacity	92,000 Btu/h
Heating Capacity	103,000 Btu/h
EER (ducted/non-ducted)	11.9/12.3
IEER (ducted/non-ducted)	21.8/23.0
SCHE (ducted/non-ducted)	23.1/26.3
COP 47F (ducted/non-ducted)	3.60/3.60

Technical Details

Compressor Type	DC Inverter x 1
Compressor RLA	22.8 A
Condenser Fan Qty	2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500
Factory Refrigerant Charge	47.18 lbs.

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	34.5A
Maximum Overcurrent Protection	40A

Sound Levels²

Sound Power Level, dB(A)	81
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Dimensions

Height (in.)	66 1/2
Width (in.)	55 1/2
Depth (in.)	29 1/2
Weight (lb.)	750

Piping

Connections, Liquid/Gas	5/8" x 1 1/8"
Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

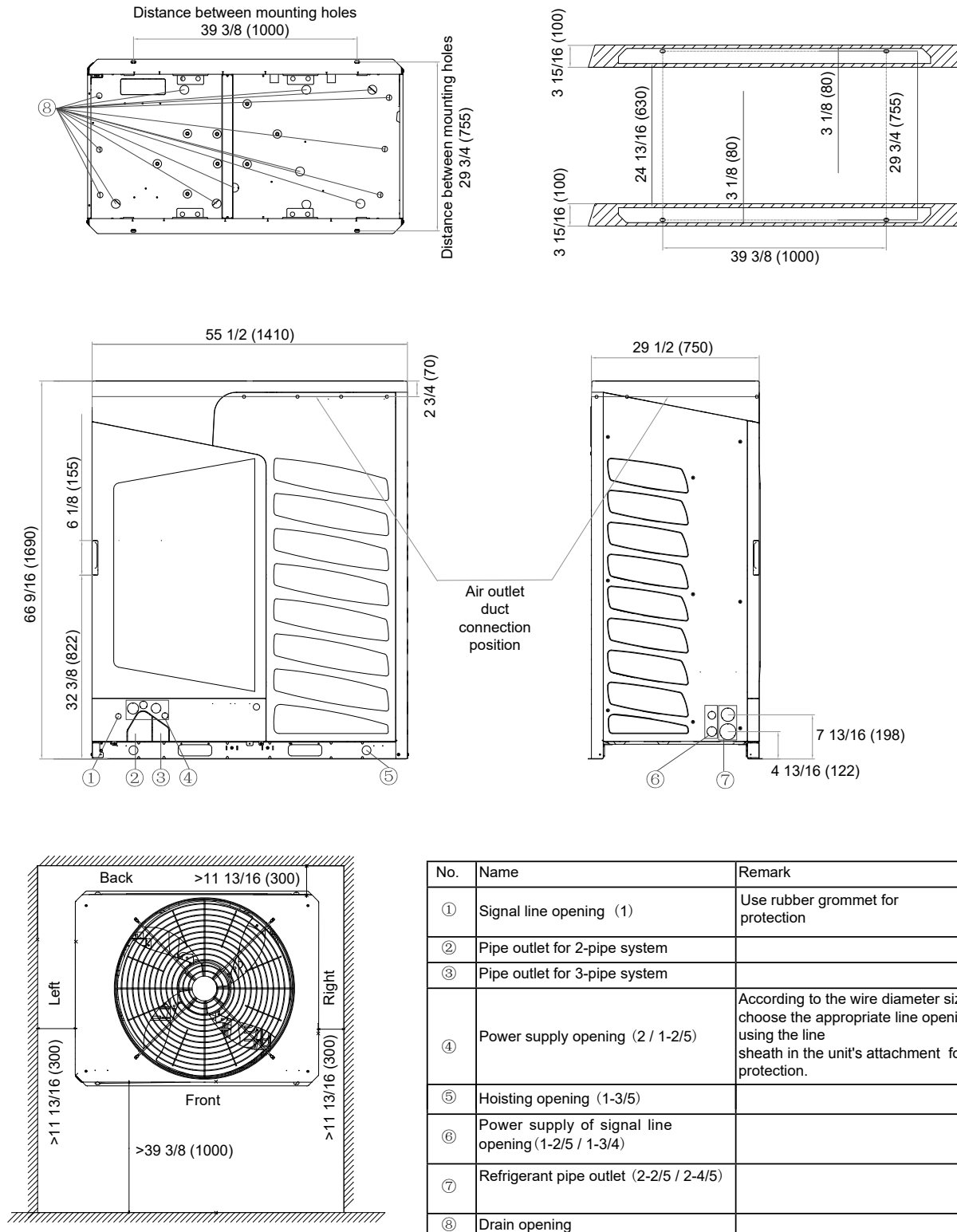
MRV-S
SERIES



Dimensional Drawings

MVHR096ME2CA

Unit: inch (mm)



MVHR120ME2CA

MRV 5 Series Heat Recovery
10 Tons



Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction

Specifications

Performance¹

Cooling Capacity	115,000 Btu/h
Heating Capacity	129,000 Btu/h
EER (ducted/non-ducted)	11.9/11.9
IEER (ducted/non-ducted)	21.9/22.0
SCHE (ducted/non-ducted)	25.1/27.5
COP 47F (ducted/non-ducted)	3.60/3.60

Technical Details

Compressor Type	DC Inverter x 1
Compressor RLA	24 A
Condenser Fan Qty	2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500
Factory Refrigerant Charge	47.18 lbs.

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3A
Maximum Overcurrent Protection	50A

Sound Levels²

Sound Power Level, dB(A)	81
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Dimensions

Height (in.)	66 1/2
Width (in.)	55 1/2
Depth (in.)	29 1/2
Weight (lb.)	750

Piping

Connections, Liquid/Gas	5/8" x 1 1/8"
Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
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- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
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3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

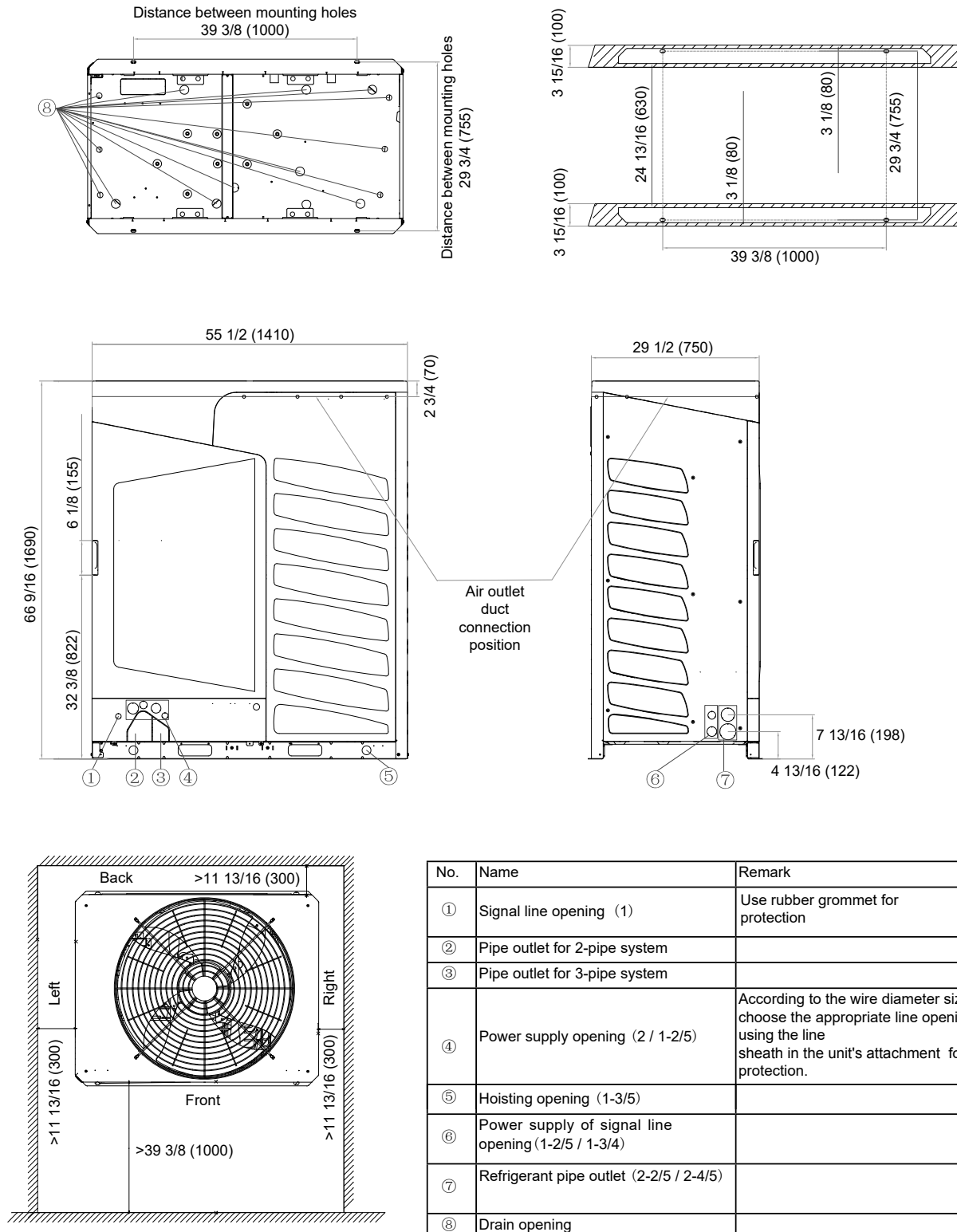
MRV-S
SERIES



Dimensional Drawings

MVHR120ME2CA

Unit: inch (mm)



MVHR144ME2CA

MRV 5 Series Heat Recovery
12 Tons



Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction

Specifications

Performance¹

Cooling Capacity	138,000 Btu/h
Heating Capacity	154,000 Btu/h
EER (ducted/non-ducted)	11.0/11.4
IEER (ducted/non-ducted)	20.8/22.0
SCHE (ducted/non-ducted)	24.5/26.7
COP 47F (ducted/non-ducted)	3.50/3.50

Technical Details

Compressor Type	DC Inverter x 2
Compressor RLA	20.5 + 20.5
Condenser Fan Qty	2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500
Factory Refrigerant Charge	43.65 lbs.

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9A
Maximum Overcurrent Protection	80A

Sound Levels²

Sound Power Level, dB(A)	83
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Dimensions

Height (in.)	66 1/2
Width (in.)	55 1/2
Depth (in.)	29 1/2
Weight (lb.)	871

Piping

Connections, Liquid/Gas	5/8" x 1 1/8"
Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
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- COP performance up to 3.6
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- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

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Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
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3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

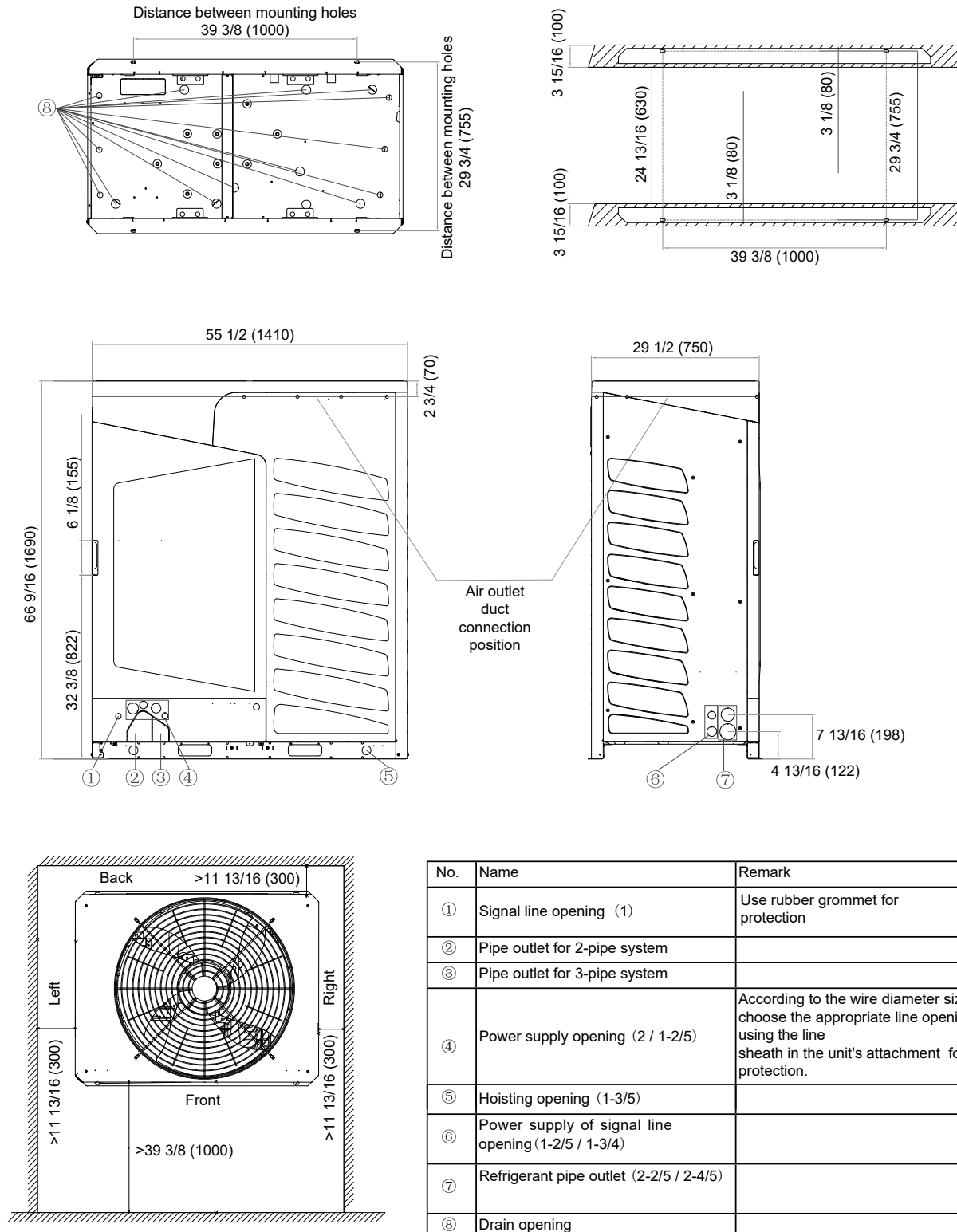
MRV-S
SERIES



Dimensional Drawings

MVHR144ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR168ME2CA

MRV 5 Series Heat Recovery
14 Tons



Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction

Specifications

Performance¹

Cooling Capacity	161,000 Btu/h
Heating Capacity	180,000 Btu/h
EER (ducted/non-ducted)	11.2/11.4
IEER (ducted/non-ducted)	20.7/22.0
SCHE (ducted/non-ducted)	24.6/26.0
COP 47F (ducted/non-ducted)	3.40/3.40

Technical Details

Compressor Type	DC Inverter 1+1
Compressor RLA	22.8 + 16.7
Condenser Fan Qty	2+1
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 7,900
Factory Refrigerant Charge	47.18 + 31.97 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	34.5A + 29.3A
Maximum Overcurrent Protection	40A + 40A

Sound Levels²

Sound Power Level, dB(A)	81+77
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Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR168ME2CA

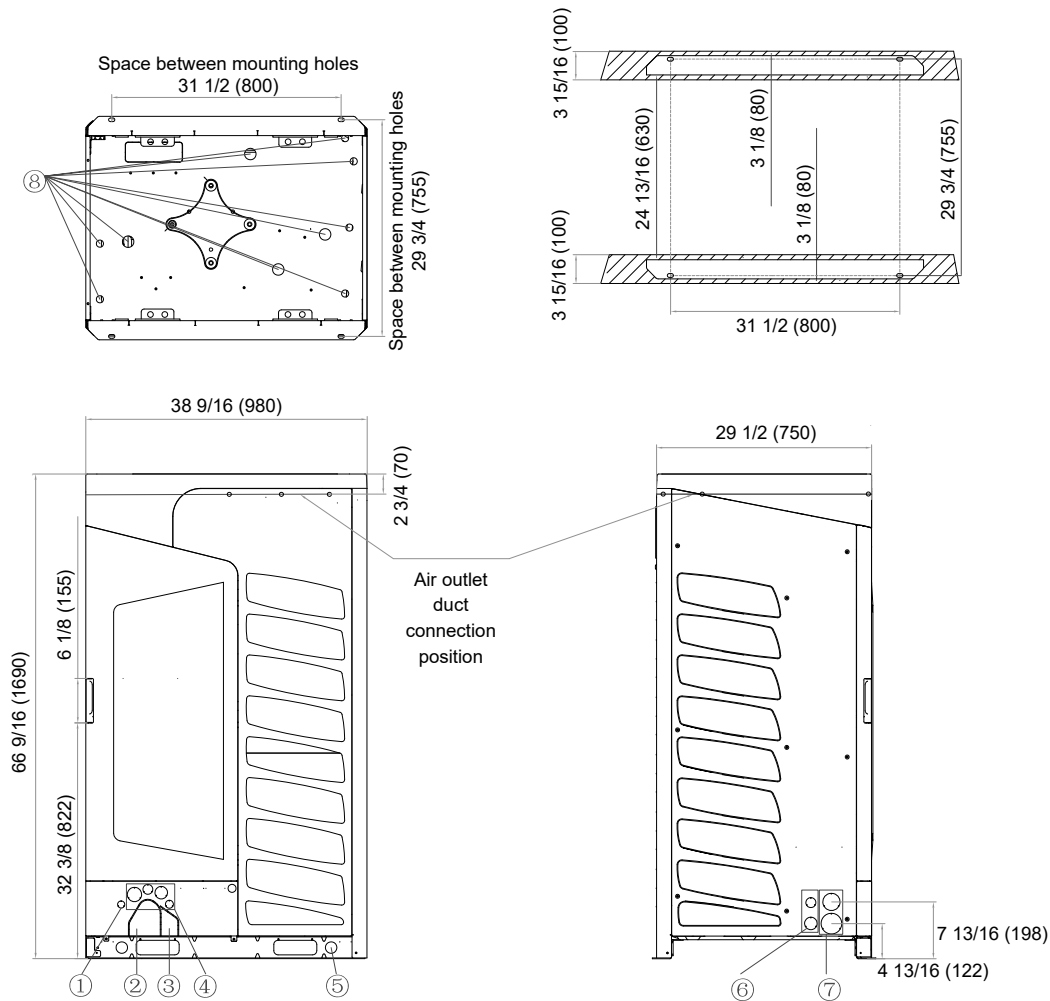
 MRV 5 Series Heat Recovery
 14 Tons

	Module 1 MVHR096ME2CA	Module 2 MVHR072ME2CA
Technical Details		
Compressor Type	DC Inverter x 1	DC Inverter x 1
Compressor RLA	22.8 A	16.7 A
Condenser Fan Qty	2	1
Condenser Fan Type	Propeller	Propeller
Condenser Fan CFM	10,500	7,900
Factory Refrigerant Charge	47.18 lbs.	31.97 lbs.
Electrical		
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	34.5 A	29.3 A
Maximum Overcurrent Protection	40 A	40 A
Sound Levels²		
Sound Power Level, dB(A)	81	77
Dimensions		
Height (in.)	66 1/2	66 1/2
Width (in.)	55 1/2	38 5/8
Depth (in.)	29 1/2	29 1/2
Weight (lb.)	750	597
Piping		
Connections, Liquid/Gas	5/8" x 1 1/8"	1/2" x 1"

Dimensional Drawings

MVHR072ME2CA

Unit: inch (mm)

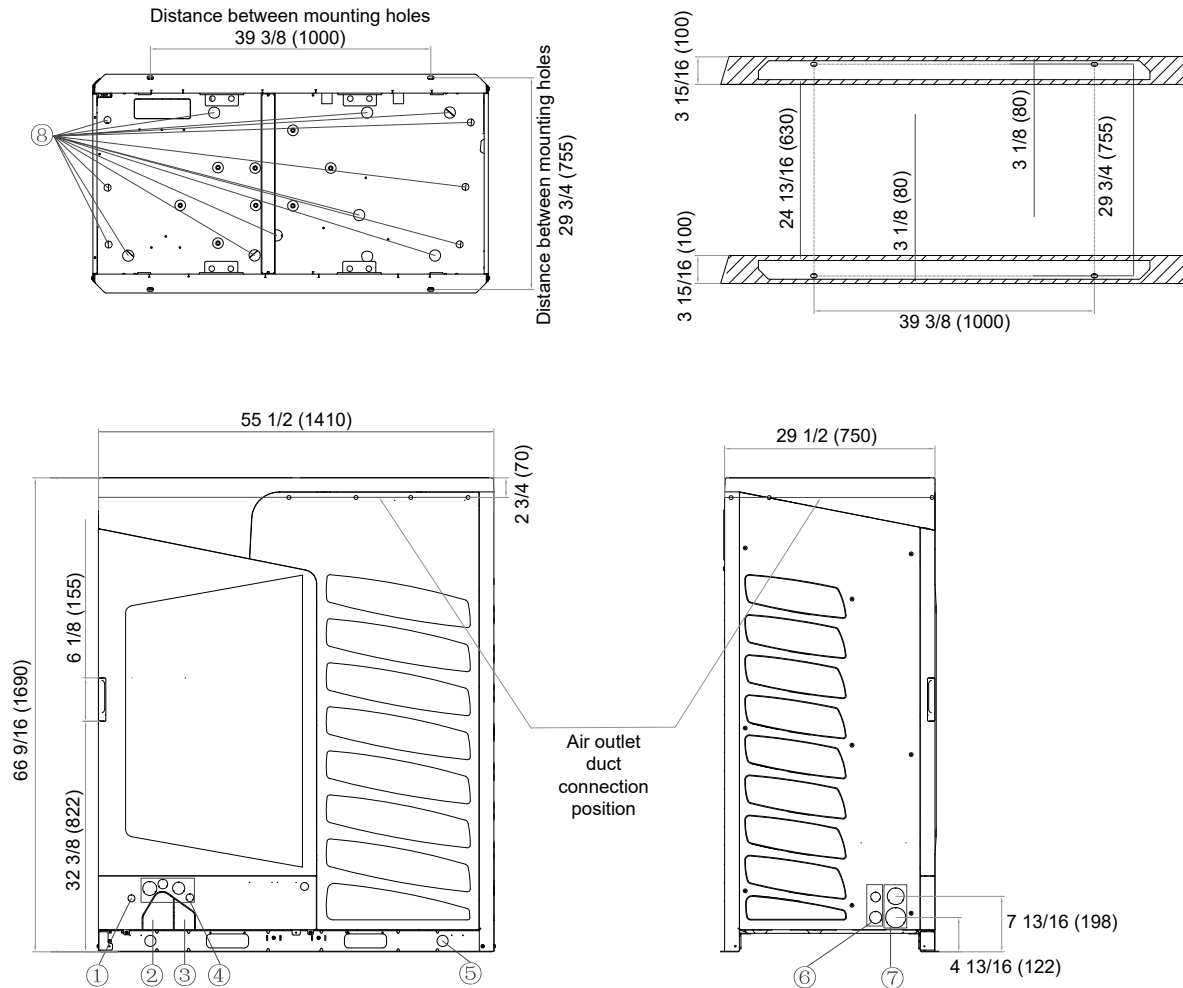


No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening(1-3/5)	
⑥	Power supply of signal line opening(1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

Dimensional Drawings

MVHR096ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR192ME2CA

MRV 5 Series Heat Recovery
16 Tons



Job Name: _____
 Location: _____
 Date: _____
 Tag: _____

Reference Approval Construction

Specifications

Performance¹

Cooling Capacity	184,000 Btu/h
Heating Capacity	206,000 Btu/h
EER (ducted/non-ducted)	11.2/11.4
IEER (ducted/non-ducted)	19.7/20.4
SCHE (ducted/non-ducted)	24.3/26.6
COP 47F (ducted/non-ducted)	3.30/3.40

Technical Details

Compressor Type	DC Inverter 1+1
Compressor RLA	22.8 + 22.8
Condenser Fan Qty	2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500
Factory Refrigerant Charge	47.18 + 47.18 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	34.5A + 34.5A
Maximum Overcurrent Protection	40A + 40A

Sound Levels²

Sound Power Level, dB(A)	81 + 81
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Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
 Cooling Indoor: 80°F DB, 67°F WB
 Cooling Outdoor: 95°F DB
 Heating Indoor: 70°F DB
 Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR192ME2CA

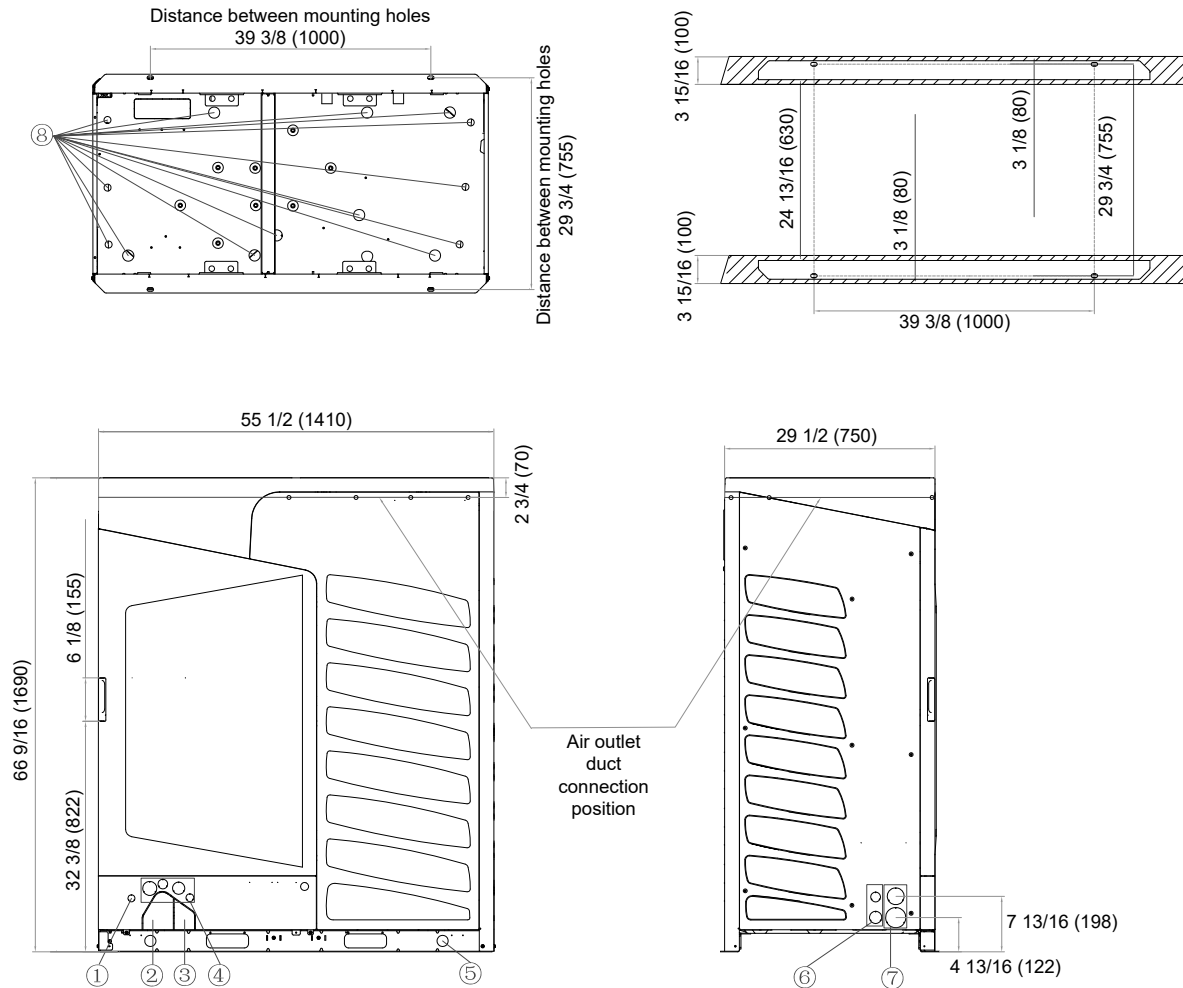
 MRV 5 Series Heat Recovery
 16 Tons

	Module 1 MVHR096ME2CA	Module 2 MVHR096ME2CA
Technical Details		
Compressor Type	DC Inverter x 1	DC Inverter x 1
Compressor RLA	22.8 A	22.8 A
Condenser Fan Qty	2	2
Condenser Fan Type	Propeller	Propeller
Condenser Fan CFM	10,500	10,500
Factory Refrigerant Charge	47.18 lbs.	47.18 lbs.
Electrical		
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	34.5 A	34.5 A
Maximum Overcurrent Protection	40 A	40 A
Sound Levels²		
Sound Power Level, dB(A)	81	81
Dimensions		
Height (in.)	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2
Weight (lb.)	750	750
Piping		
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR096ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR216ME2CA

MRV 5 Series Heat Recovery
18 Tons

Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction



Specifications

Performance¹

Cooling Capacity	207,000 Btu/h
Heating Capacity	232,000 Btu/h
EER (ducted/non-ducted)	10.9/11.4
IEER (ducted/non-ducted)	19.8/19.9
SCHE (ducted/non-ducted)	24.3/25.6
COP 47F (ducted/non-ducted)	3.30/3.30

Technical Details

Compressor Type	DC Inverter 1+1
Compressor RLA	24 + 22.8
Condenser Fan Qty	2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500
Factory Refrigerant Charge	47.18 + 47.18 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3A + 34.5A
Maximum Overcurrent Protection	50A + 40A

Sound Levels²

Sound Power Level, dB(A)	81 + 81
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Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR216ME2CA

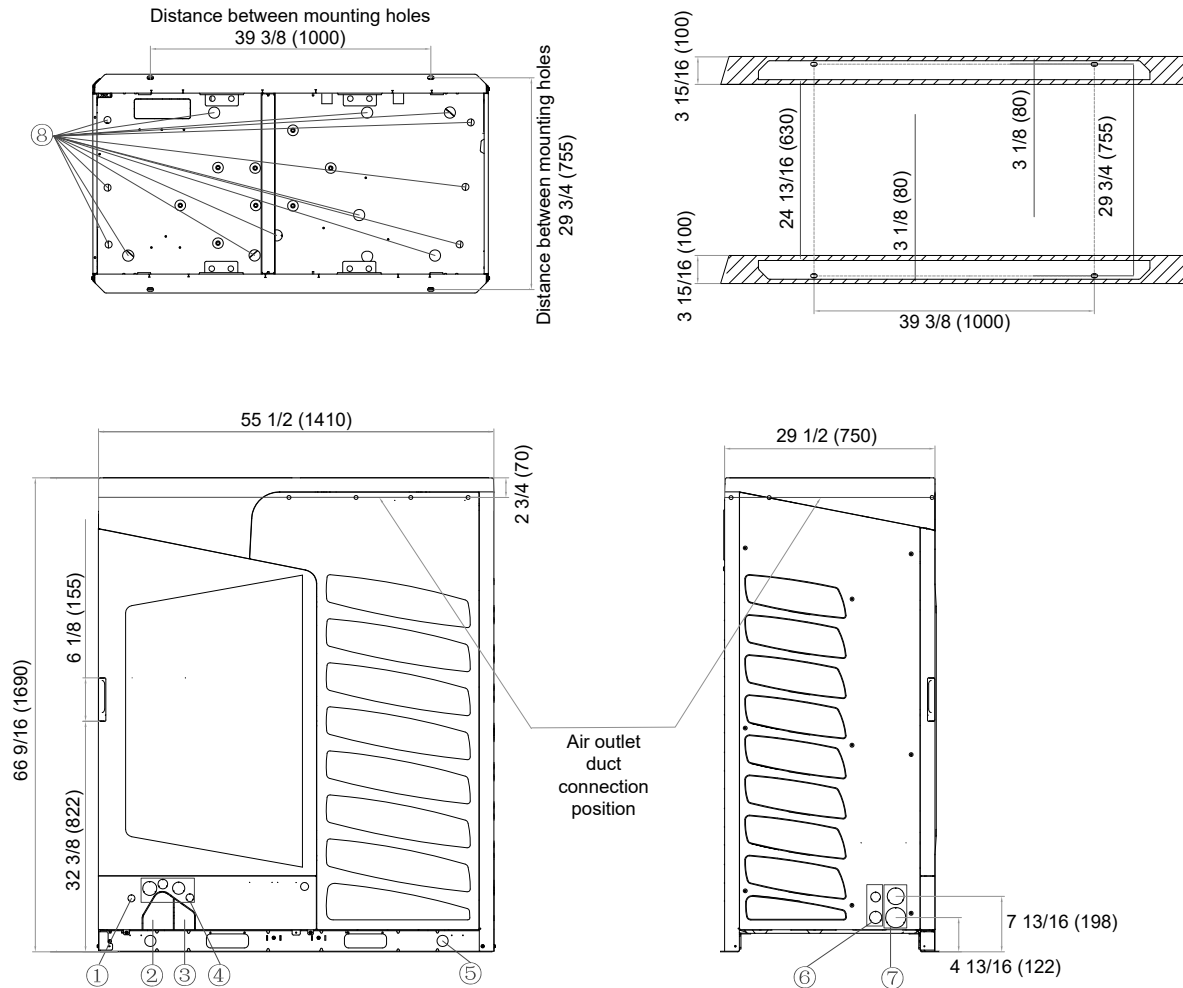
 MRV 5 Series Heat Recovery
 18 Tons

	Module 1 MVHR120ME2CA	Module 2 MVHR096ME2CA
Technical Details		
Compressor Type	DC Inverter x 1	DC Inverter x 1
Compressor RLA	24	22.8
Condenser Fan Qty	2	2
Condenser Fan Type	Propeller	Propeller
Condenser Fan CFM	10,500	10,500
Factory Refrigerant Charge	47.18 lbs.	47.18 lbs.
Electrical		
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3 A	34.5 A
Maximum Overcurrent Protection	50 A	40 A
Sound Levels²		
Sound Power Level, dB(A)	81	81
Dimensions		
Height (in.)	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2
Weight (lb.)	750	750
Piping		
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR120/096ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR240ME2CA

MRV 5 Series Heat Recovery
20 Tons



Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction

Specifications

Performance¹

Cooling Capacity	230,000 Btu/h
Heating Capacity	258,000 Btu/h
EER (ducted/non-ducted)	10.4/10.4
IEER (ducted/non-ducted)	20.6/18.8
SCHE (ducted/non-ducted)	23.6/24.8
COP 47F (ducted/non-ducted)	3.20/3.30

Technical Details

Compressor Type	DC Inverter 1+1
Compressor RLA	24 + 24
Condenser Fan Qty	2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500
Factory Refrigerant Charge	47.18 + 47.18 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3A + 40.3A
Maximum Overcurrent Protection	50A + 50A

Sound Levels²

Sound Power Level, dB(A)	81+81
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Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR240ME2CA

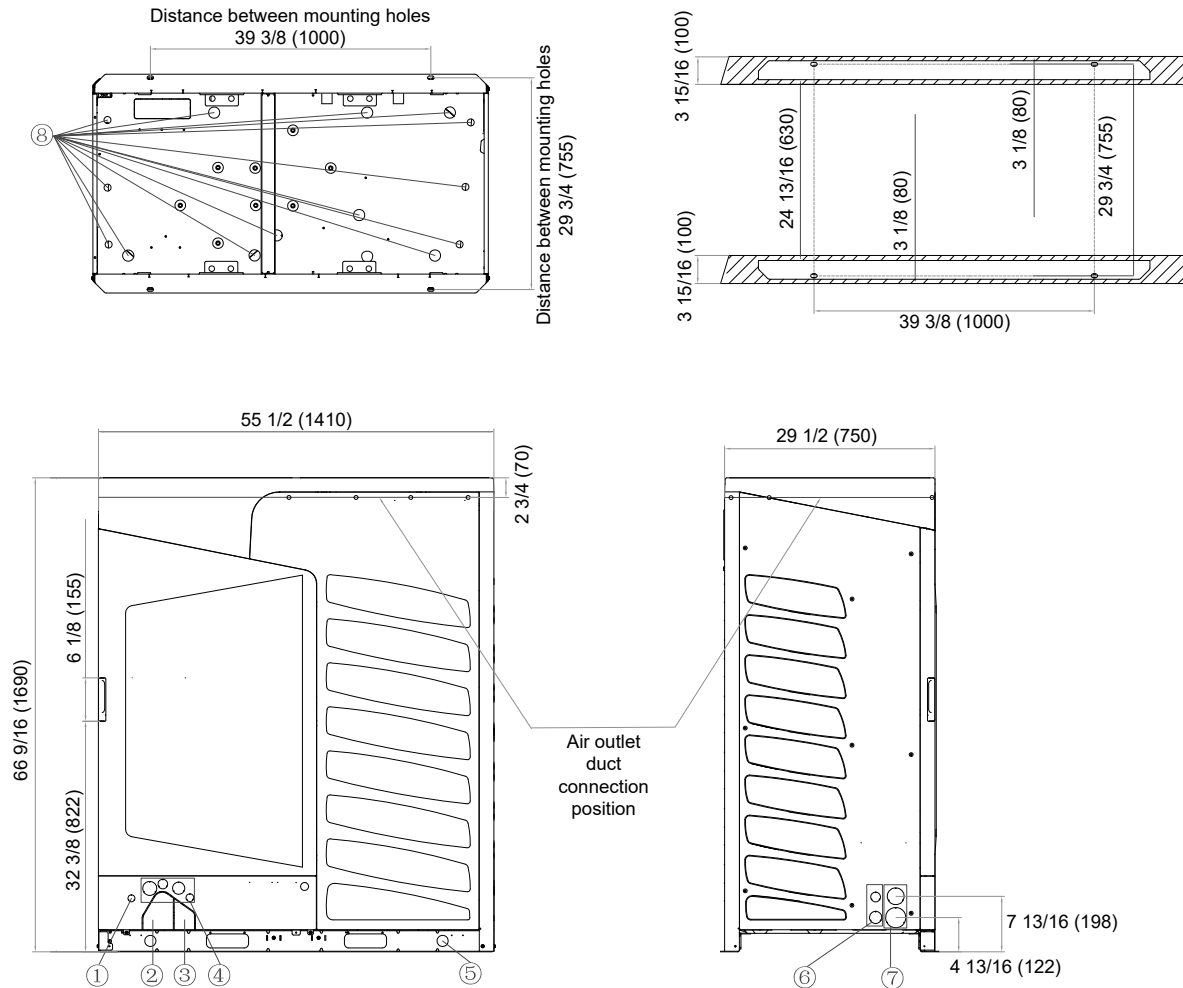
 MRV 5 Series Heat Recovery
 20 Tons

	Module 1 MVHR120ME2CA	Module 2 MVHR120ME2CA
Technical Details		
Compressor Type	DC Inverter x 1	DC Inverter x 1
Compressor RLA	24 A	24 A
Condenser Fan Qty	2	2
Condenser Fan Type	Propeller	Propeller
Condenser Fan CFM	10,500	10,500
Factory Refrigerant Charge	47.18 lbs.	47.18 lbs.
Electrical		
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3 A	40.3 A
Maximum Overcurrent Protection	50 A	50 A
Sound Levels²		
Sound Power Level, dB(A)	81	81
Dimensions		
Height (in.)	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2
Weight (lb.)	750	750
Piping		
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR120ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR264ME2CA

MRV 5 Series Heat Recovery
22 Tons

Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction



Specifications

Performance¹

Cooling Capacity	253,000 Btu/h
Heating Capacity	282,000 Btu/h
EER (ducted/non-ducted)	9.80/10.40
IEER (ducted/non-ducted)	19.8/17.9
SCHE (ducted/non-ducted)	23.1/25.4
COP 47F (ducted/non-ducted)	3.20/3.20

Technical Details

Compressor Type	DC Inverter 2+1
Compressor RLA	(20.5 + 20.5) + 24
Condenser Fan Qty	2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500
Factory Refrigerant Charge	43.65 + 47.18 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9A + 40.3A
Maximum Overcurrent Protection	80A + 50A

Sound Levels²

Sound Power Level, dB(A)	83 + 81
--------------------------	---------

Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR264ME2CA

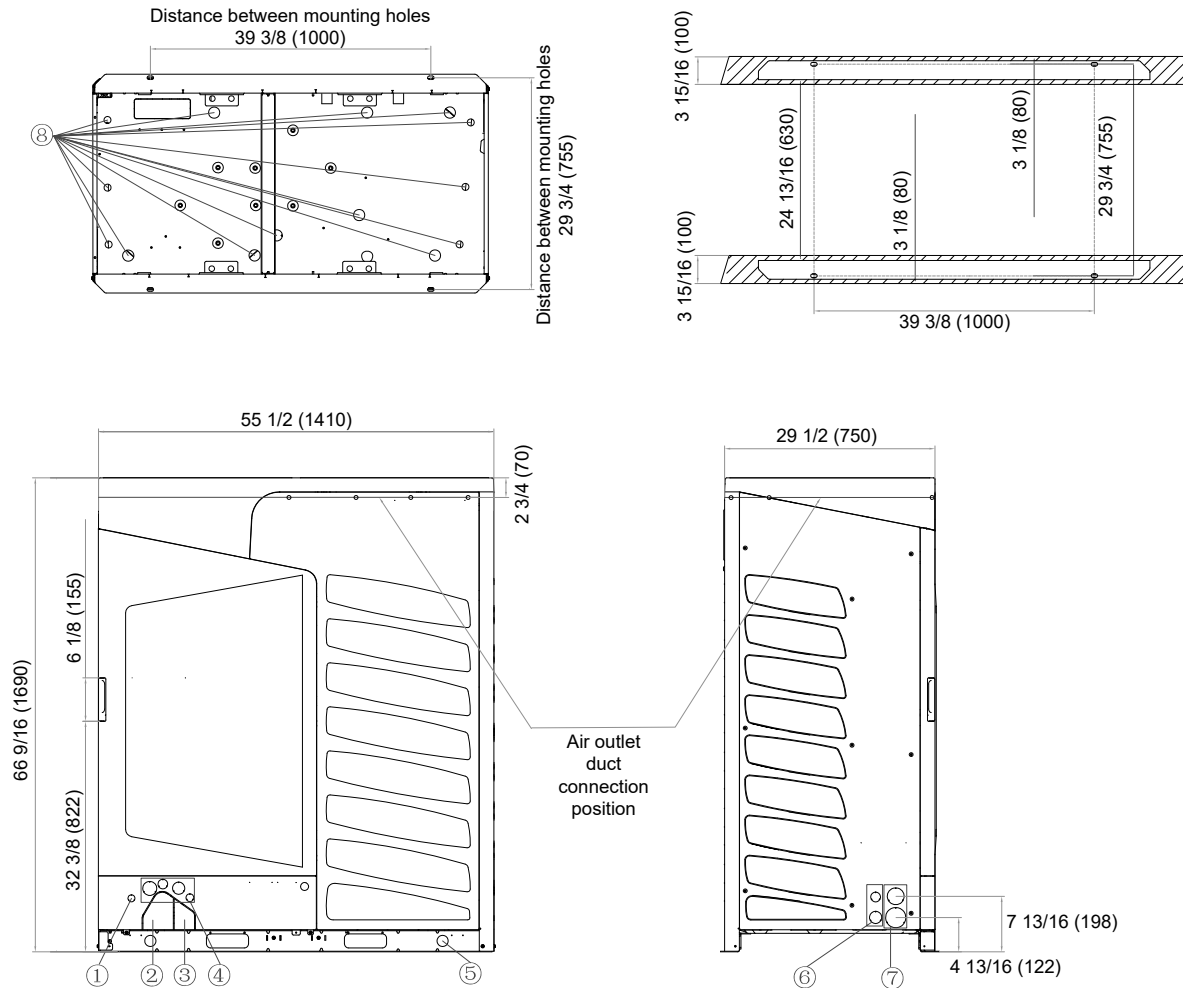
 MRV 5 Series Heat Recovery
 22 Tons

	Module 1 MVHR144ME2CA	Module 2 MVHR120ME2CA
Technical Details		
Compressor Type	DC Inverter x 2	DC Inverter x 1
Compressor RLA	20.5+20.5 A	24 A
Condenser Fan Qty	2	2
Condenser Fan Type	Propeller	Propeller
Condenser Fan CFM	10,500	10,500
Factory Refrigerant Charge	43.65 lbs.	47.18 lbs.
Electrical		
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9A	40.3A
Maximum Overcurrent Protection	80A	50A
Sound Levels²		
Sound Power Level, dB(A)	83	81
Dimensions		
Height (in.)	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2
Weight (lb.)	871	750
Piping		
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR144/120ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR288ME2CA

MRV 5 Series Heat Recovery
24 Tons



Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction

Specifications

Performance¹

Cooling Capacity	276,000 Btu/h
Heating Capacity	308,000 Btu/h
EER (ducted/non-ducted)	9.80/10.30
IEER (ducted/non-ducted)	18.3/17.4
SCHE (ducted/non-ducted)	23.5/24.9
COP 47F (ducted/non-ducted)	3.20/3.20

Technical Details

Compressor Type	DC Inverter 2+1
Compressor RLA	(20.5+20.5A) + (20.5+20.5A)
Condenser Fan Qty	2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500
Factory Refrigerant Charge	43.65 + 43.65 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9A + 58.9A
Maximum Overcurrent Protection	80A + 80A

Sound Levels²

Sound Power Level, dB(A)	83 + 83
--------------------------	---------

Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR288ME2CA

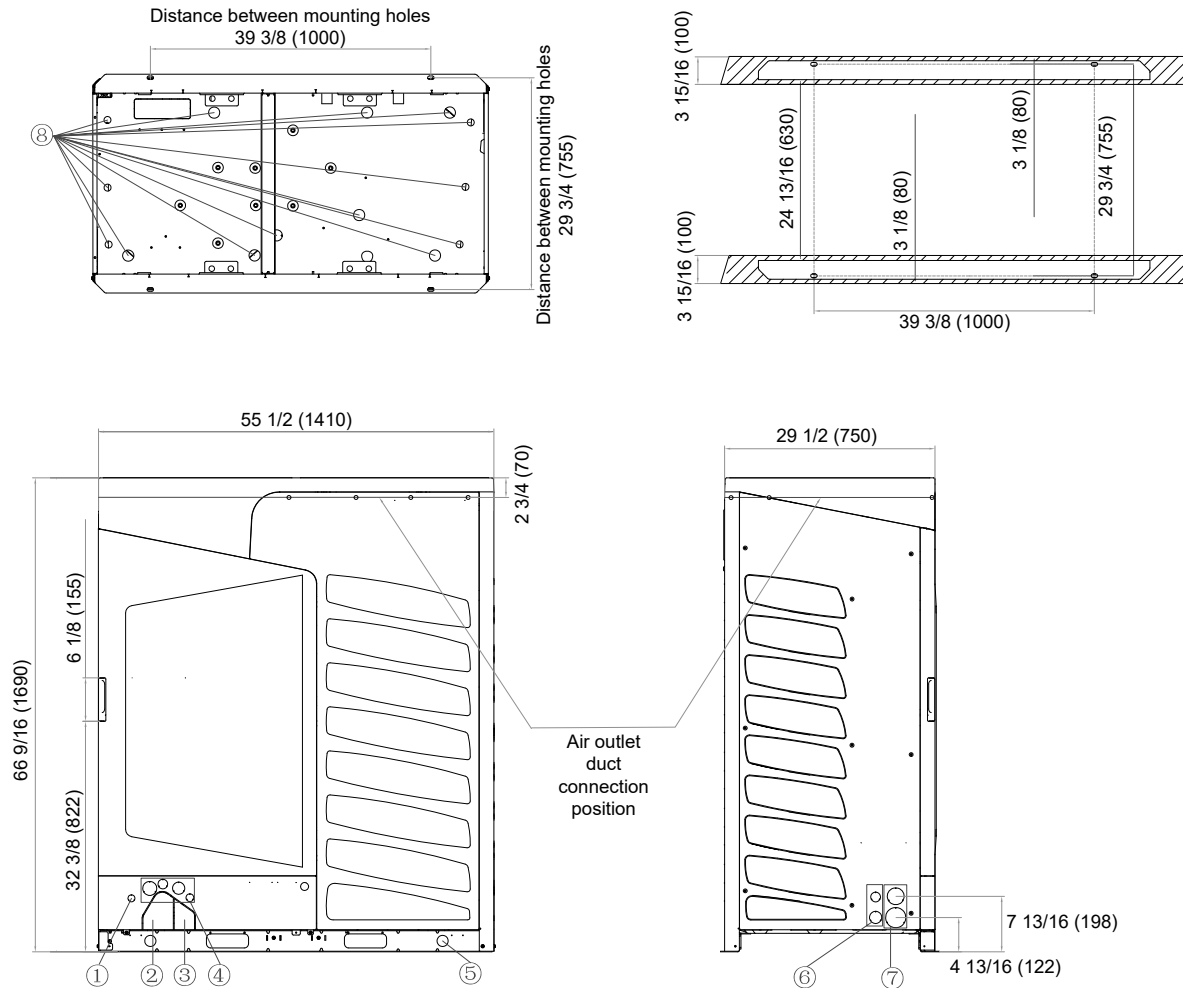
 MRV 5 Series Heat Recovery
 24 Tons

	Module 1 MVHR144ME2CA	Module 2 MVHR144ME2CA
Technical Details		
Compressor Type	DC Inverter x 2	DC Inverter x 2
Compressor RLA	20.5+20.5 A	20.5+20.5 A
Condenser Fan Qty	2	2
Condenser Fan Type	Propeller	Propeller
Condenser Fan CFM	10,500	10,500
Factory Refrigerant Charge	43.65 lbs.	43.65 lbs.
Electrical		
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9A	58.9A
Maximum Overcurrent Protection	80A	80A
Sound Levels²		
Sound Power Level, dB(A)	83	83
Dimensions		
Height (in.)	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2
Weight (lb.)	871	871
Piping		
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR144ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR312ME2CA

MRV 5 Series Heat Recovery
26 Tons

Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction



Specifications

Performance¹

Cooling Capacity	299,000 Btu/h
Heating Capacity	334,000 Btu/h
EER (ducted/non-ducted)	9.80/10.30
IEER (ducted/non-ducted)	18.2/17.3
SCHE (ducted/non-ducted)	22.9/24.20
COP 47F (ducted/non-ducted)	3.20/3.20

Technical Details

Compressor Type	DC Inverter 1+1+1
Compressor RLA	24 + 22.8 + 22.8 A
Condenser Fan Qty	2+2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500 + 10,500
Factory Refrigerant Charge	47.18 + 47.18 + 47.18 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3A + 34.5A + 34.5A
Maximum Overcurrent Protection	50A + 40A + 40A

Sound Levels²

Sound Power Level, dB(A)	81+81+81
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Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR312ME2CA

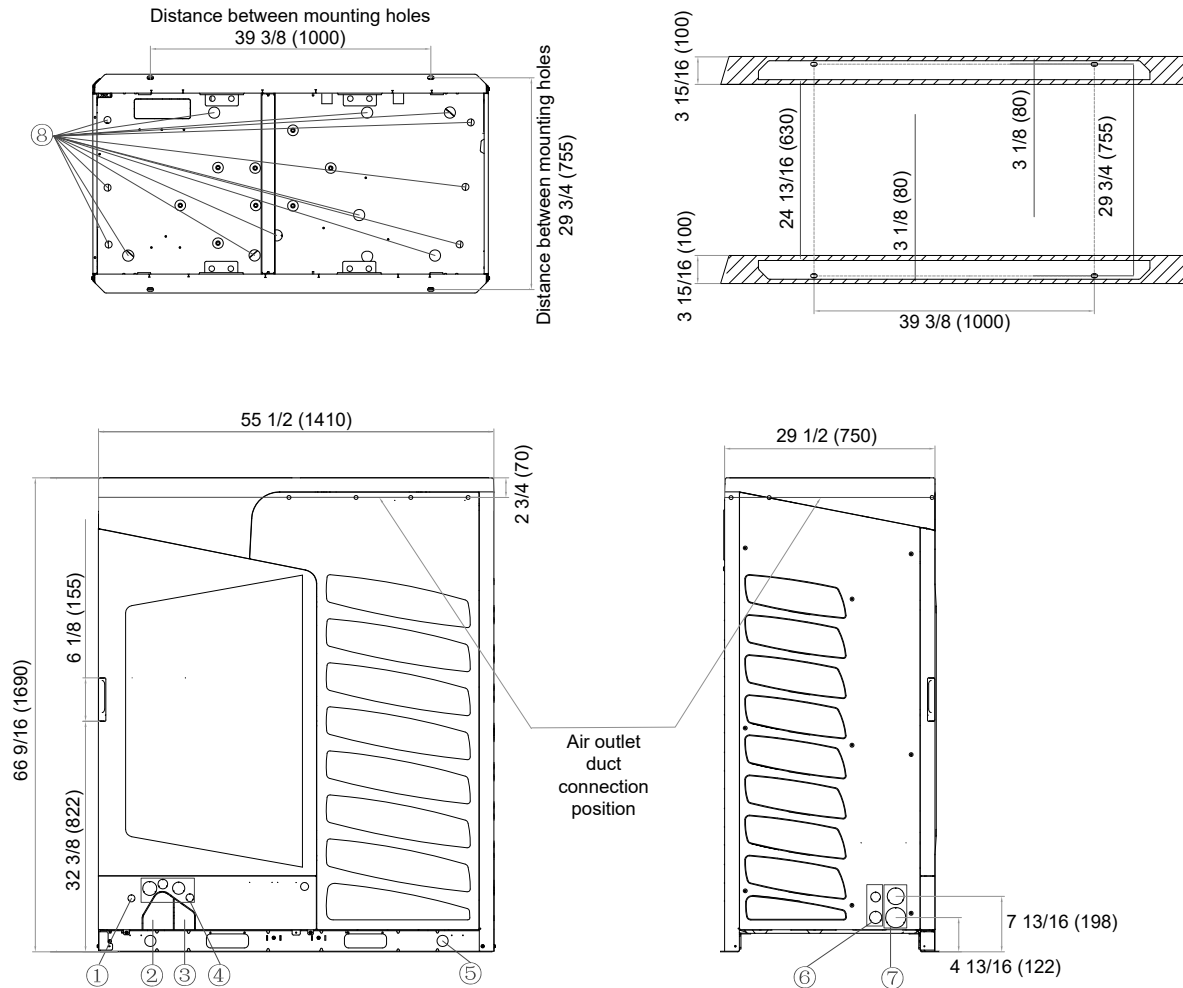
MRV 5 Series Heat Recovery
26 Tons

	Module 1 MVHR120ME2CA	Module 2 MVHR096ME2CA	Module 3 MVHR096ME2CA
Technical Details			
Compressor Type	DC Inverter x 1	DC Inverter x 1	DC Inverter x 1
Compressor RLA	24 A	22.8 A	22.8 A
Condenser Fan Qty	2	2	2
Condenser Fan Type	Propeller	Propeller	Propeller
Condenser Fan CFM	10,500	10,500	10,500
Factory Refrigerant Charge	47.18 lbs.	47.18 lbs.	47.18 lbs.
Electrical			
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3 A	29.3 A	29.3 A
Maximum Overcurrent Protection	50 A	40 A	40 A
Sound Levels²			
Sound Power Level, dB(A)	81	81	81
Dimensions			
Height (in.)	66 1/2	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2	29 1/2
Weight (lb.)	750	750	750
Piping			
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR120/096ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR336ME2CA

MRV 5 Series Heat Recovery
28 Tons

Job Name: _____

Location: _____

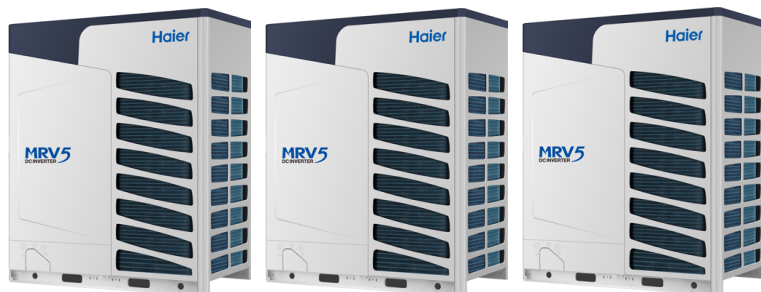
Date: _____

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Reference

Approval

Construction



Specifications

Performance¹

Cooling Capacity	322,000 Btu/h
Heating Capacity	360,000 Btu/h
EER (ducted/non-ducted)	9.80/10.30
IEER (ducted/non-ducted)	17.8/18.4
SCHE (ducted/non-ducted)	22.4/22.4
COP 47F (ducted/non-ducted)	3.20/3.20

Technical Details

Compressor Type	DC Inverter 1+1+1
Compressor RLA	24 + 24 + 22.8 A
Condenser Fan Qty	2+2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500 + 10,500
Factory Refrigerant Charge	47.18 + 47.18 + 47.18 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3A + 40.3A + 34.5A
Maximum Overcurrent Protection	50A + 50A + 40A

Sound Levels²

Sound Power Level, dB(A)	81+81+81
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Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR336ME2CA

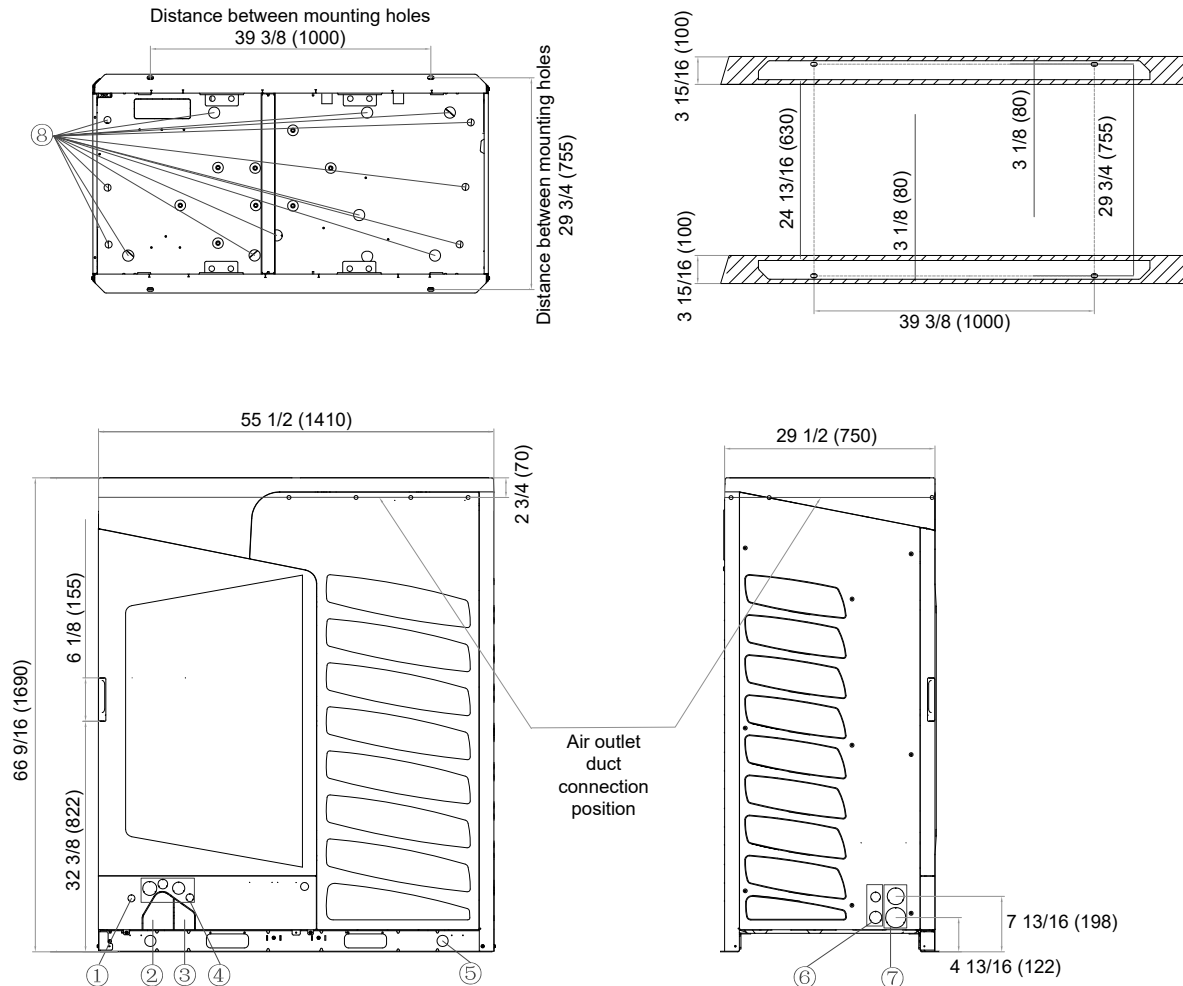
 MRV 5 Series Heat Recovery
 28 Tons

	Module 1 MVHR120ME2CA	Module 2 MVHR120ME2CA	Module 3 MVHR096ME2CA
Technical Details			
Compressor Type	DC Inverter x 1	DC Inverter x 1	DC Inverter x 1
Compressor RLA	24 A	24 A	22.8 A
Condenser Fan Qty	2	2	2
Condenser Fan Type	Propeller	Propeller	Propeller
Condenser Fan CFM	10,500	10,500	10,500
Factory Refrigerant Charge	47.18 lbs.	47.18 lbs.	47.18 lbs.
Electrical			
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3 A	40.3 A	34.5 A
Maximum Overcurrent Protection	50 A	50 A	40 A
Sound Levels²			
Sound Power Level, dB(A)	81	81	81
Dimensions			
Height (in.)	66 1/2	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2	29 1/2
Weight (lb.)	750	750	750
Piping			
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR120/096ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR360ME2CA

MRV 5 Series Heat Recovery
30 Tons

Job Name: _____

Location: _____

Date: _____

Tag: _____

Reference

Approval

Construction



Specifications

Performance¹

Cooling Capacity	345,000 Btu/h
Heating Capacity	372,000 Btu/h
EER (ducted/non-ducted)	9.80/9.80
IEER (ducted/non-ducted)	17.9/17.9
SCHE (ducted/non-ducted)	22.2/22.4
COP 47F (ducted/non-ducted)	3.20/3.20

Technical Details

Compressor Type	DC Inverter 1+1+1
Compressor RLA	24 + 24 + 24 A
Condenser Fan Qty	2+2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500 + 10,500
Factory Refrigerant Charge	47.18 + 47.18 + 47.18 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3A + 40.3A + 40.3A
Maximum Overcurrent Protection	50A + 50A + 50A

Sound Levels²

Sound Power Level, dB(A)	81+81+81
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Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR360ME2CA

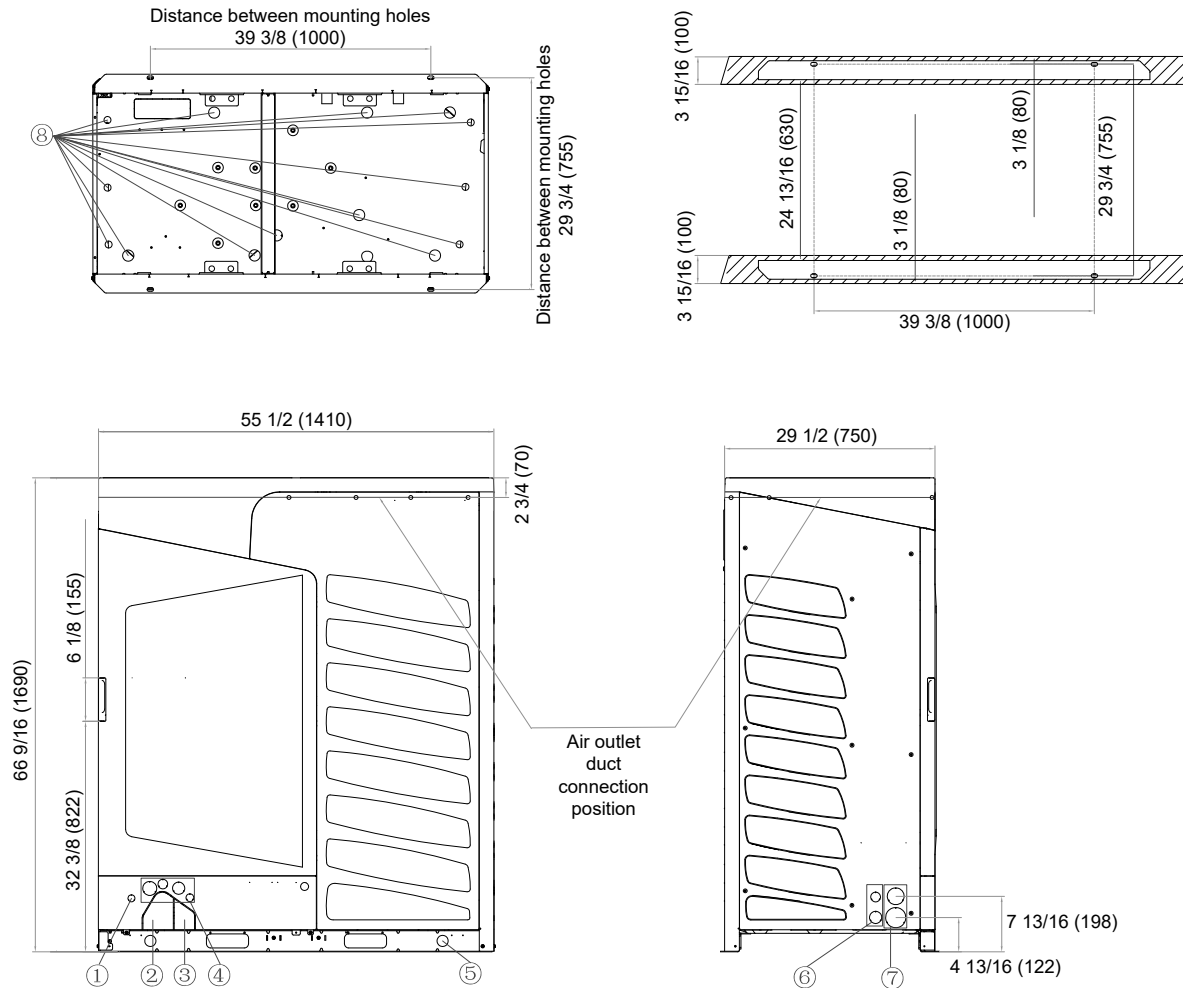
MRV 5 Series Heat Recovery
30 Tons

	Module 1 MVHR120ME2CA	Module 2 MVHR120ME2CA	Module 3 MVHR120ME2CA
Technical Details			
Compressor Type	DC Inverter x 1	DC Inverter x 1	DC Inverter x 1
Compressor RLA	24 A	24 A	24 A
Condenser Fan Qty	2	2	2
Condenser Fan Type	Propeller	Propeller	Propeller
Condenser Fan CFM	10,500	10,500	10,500
Factory Refrigerant Charge	47.18 lbs.	47.18 lbs.	47.18 lbs.
Electrical			
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	40.3 A	40.3 A	40.3 A
Maximum Overcurrent Protection	50 A	50 A	50 A
Sound Levels²			
Sound Power Level, dB(A)	81	81	81
Dimensions			
Height (in.)	66 1/2	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2	29 1/2
Weight (lb.)	750	750	750
Piping			
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR120ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR384ME2CA

MRV 5 Series Heat Recovery
32 Tons

Job Name: _____

Location: _____

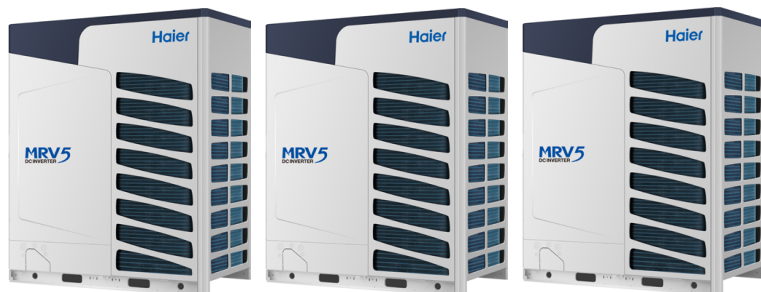
Date: _____

Tag: _____

Reference

Approval

Construction



Specifications

Performance¹

Cooling Capacity	364,000 Btu/h
Heating Capacity	384,000 Btu/h
EER (ducted/non-ducted)	9.30/9.30
IEER (ducted/non-ducted)	17.7/17.5
SCHE (ducted/non-ducted)	20.3/21.2
COP 47F (ducted/non-ducted)	3.20/3.20

Technical Details

Compressor Type	DC Inverter 1+1+1
Compressor RLA	(20.5+20.5) + 24 + 24 A
Condenser Fan Qty	2+2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500 + 10,500
Factory Refrigerant Charge	43.65 + 47.18 + 47.18 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9A + 40.3A + 40.3A
Maximum Overcurrent Protection	80A + 50A + 50A

Sound Levels²

Sound Power Level, dB(A)	83+81+81
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Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR384ME2CA

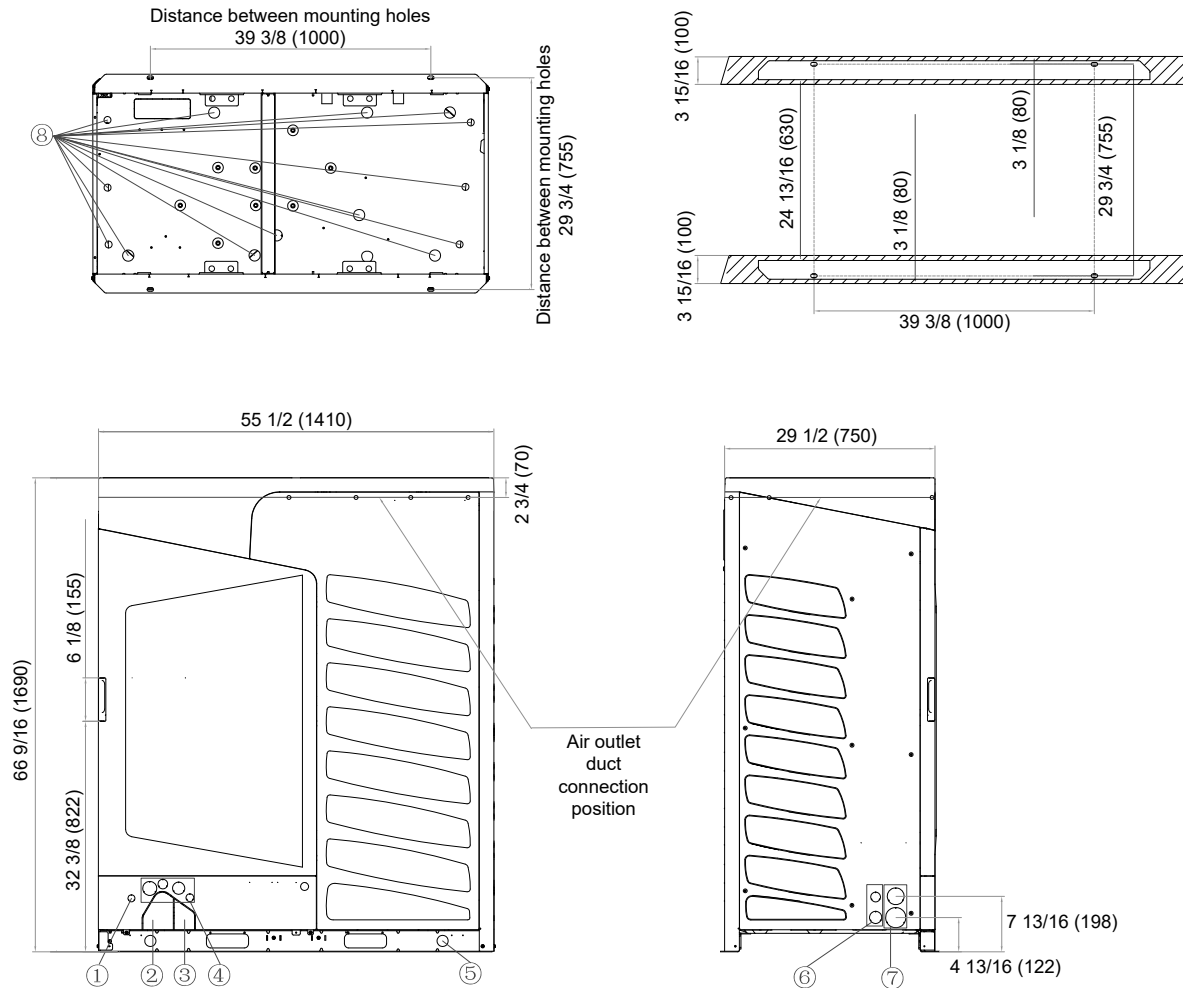
 MRV 5 Series Heat Recovery
 32 Tons

	Module 1 MVHR144ME2CA	Module 2 MVHR120ME2CA	Module 3 MVHR120ME2CA
Technical Details			
Compressor Type	DC Inverter x 2	DC Inverter x 1	DC Inverter x 1
Compressor RLA	20.5+20.5 A	24 A	24 A
Condenser Fan Qty	2	2	2
Condenser Fan Type	Propeller	Propeller	Propeller
Condenser Fan CFM	10,500	10,500	10,500
Factory Refrigerant Charge	43.65 lbs.	47.18 lbs.	47.18 lbs.
Electrical			
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9 A	40.3 A	40.3 A
Maximum Overcurrent Protection	80 A	50 A	50 A
Sound Levels²			
Sound Power Level, dB(A)	83	81	81
Dimensions			
Height (in.)	66 1/2	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2	29 1/2
Weight (lb.)	871	750	750
Piping			
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR144/120ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR408ME2CA

MRV 5 Series Heat Recovery
34 Tons

Job Name: _____

Location: _____

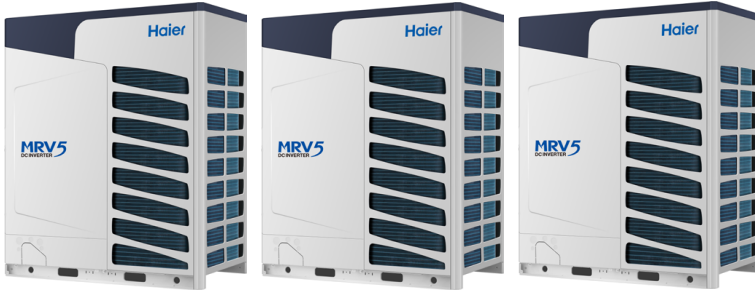
Date: _____

Tag: _____

Reference

Approval

Construction



Specifications

Performance¹

Cooling Capacity	380,000 Btu/h
Heating Capacity	410,000 Btu/h
EER (ducted/non-ducted)	9.30/9.30
IEER (ducted/non-ducted)	17.3/16.5
SCHE (ducted/non-ducted)	19.2/20.1
COP 47F (ducted/non-ducted)	3.20/3.20

Technical Details

Compressor Type	DC Inverter 1+1+1
Compressor RLA	<i>refer to next page</i>
Condenser Fan Qty	2+2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500 + 10,500
Factory Refrigerant Charge	43.65 + 43.65 + 47.18 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9A + 58.9A + 40.3A
Maximum Overcurrent Protection	80A + 80A + 50A

Sound Levels²

Sound Power Level, dB(A)	83+83+81
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Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR408ME2CA

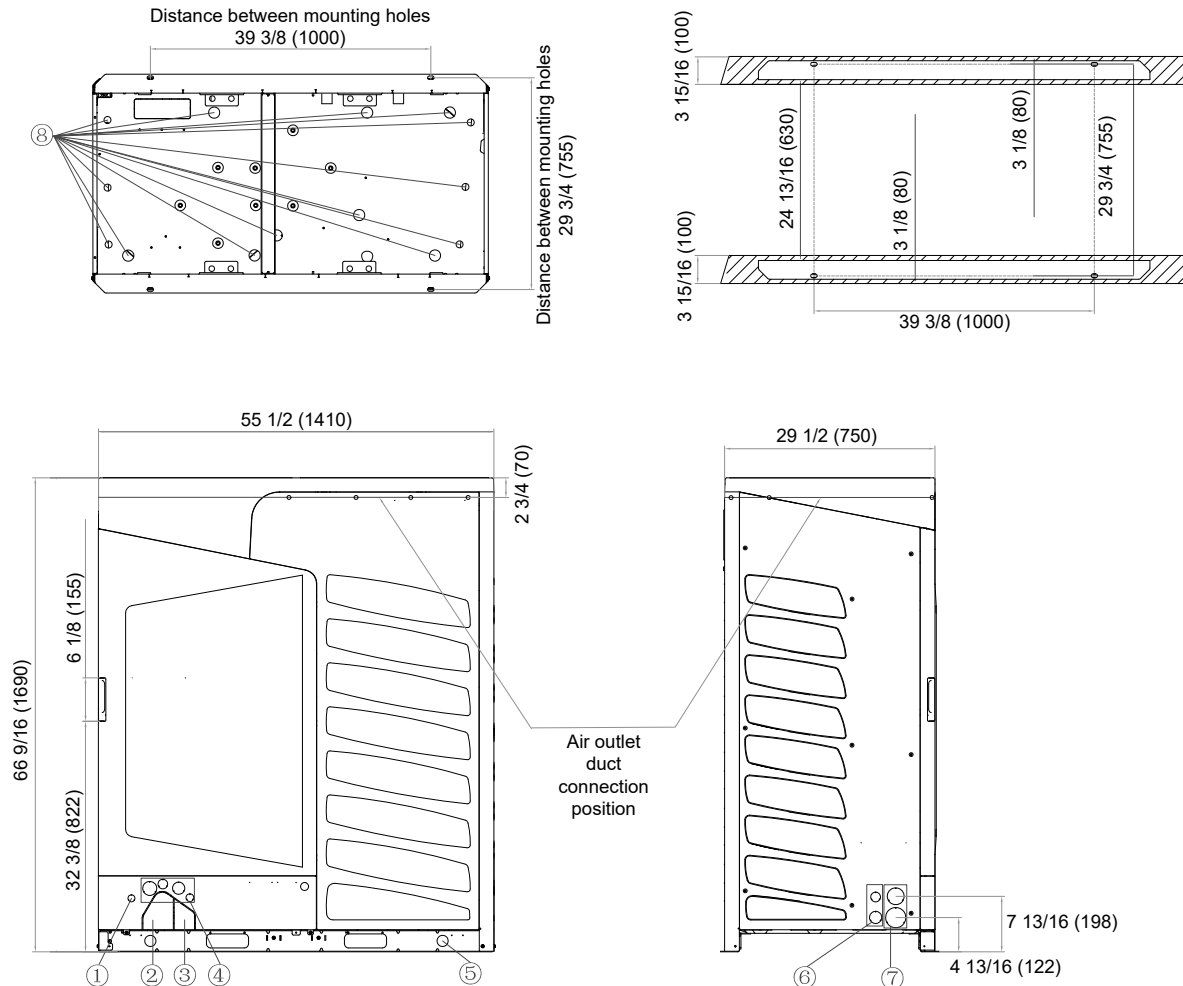
 MRV 5 Series Heat Recovery
 34 Tons

	Module 1 MVHR144ME2CA	Module 2 MVHR144ME2CA	Module 3 MVHR120ME2CA
Technical Details			
Compressor Type	DC Inverter x 2	DC Inverter x 2	DC Inverter x 1
Compressor RLA	20.5+20.5 A	20.5+20.5 A	24 A
Condenser Fan Qty	2	2	2
Condenser Fan Type	Propeller	Propeller	Propeller
Condenser Fan CFM	10,500	10,500	10,500
Factory Refrigerant Charge	43.65 lbs.	43.65 lbs.	47.18 lbs.
Electrical			
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9 A	58.9 A	40.3 A
Maximum Overcurrent Protection	80 A	80 A	50 A
Sound Levels²			
Sound Power Level, dB(A)	83	83	81
Dimensions			
Height (in.)	66 1/2	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2	29 1/2
Weight (lb.)	871	871	750
Piping			
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR144/120ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	

MVHR432ME2CA

MRV 5 Series Heat Recovery
36 Tons

Job Name: _____

Location: _____

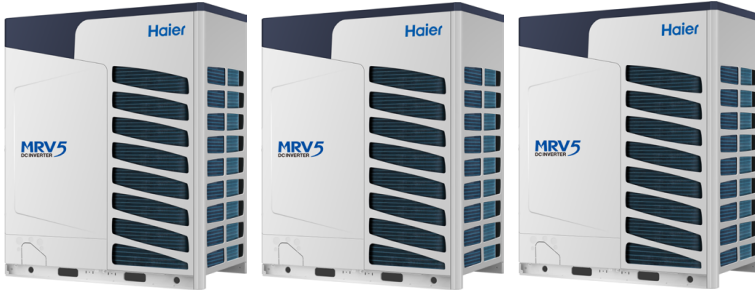
Date: _____

Tag: _____

Reference

Approval

Construction



Specifications

Performance¹

Cooling Capacity	400,000 Btu/h
Heating Capacity	420,000 Btu/h
EER (ducted/non-ducted)	9.30/9.30
IEER (ducted/non-ducted)	17.00/16.40
SCHE (ducted/non-ducted)	18.2/19.2
COP 47F (ducted/non-ducted)	3.20/3.20

Technical Details

Compressor Type	DC Inverter 1+1+1
Compressor RLA	<i>refer to next page</i>
Condenser Fan Qty	2+2+2
Condenser Fan Type	Propeller
Condenser Fan CFM	10,500 + 10,500 + 10,500
Factory Refrigerant Charge	43.65 + 43.65 + 43.65 lb

Electrical

Voltage (V / Ø / Hz)	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9A + 58.9A + 58.9A
Maximum Overcurrent Protection	80A + 80A + 80A

Sound Levels²

Sound Power Level, dB(A)	83+83+83
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Piping

Total System length	3280 ft.
ODU to furthest IDU	722 ft.
ODU above IDU	295 ft.
ODU below IDU	361 ft.

Features and Benefits

- Ability to simultaneously heat and cool from different indoor units, maximizing efficiency and comfort
- Optimized, intelligent control with all DC inverter EVI compressor technology achieves high efficiency performance with high reliability
- Wide range of operation from -13°F (-25°C) to 122°F (50°C)
- IEER performance up to 24.5
- SCHE performance up to 28.0
- COP performance up to 3.6
- Delivers 80% of rated heating capacity at 5°F (-15°C)
- Four-sided heat exchanger reduces chassis footprint
- Hinged electrical box design for ease of access to system components
- Factory standard black fin anti corrosion coating
- Nighttime quiet operation reduces sound levels by 10 dB(A)
- Automatic oil balancing eliminates the need for oil balancing piping
- 10 year limited parts and compressor warranty²

Notes

1. Cooling and heating capacities are based on the following temperatures:
Cooling Indoor: 80°F DB, 67°F WB
Cooling Outdoor: 95°F DB
Heating Indoor: 70°F DB
Heating Outdoor: 47°F WB, 43°F WB
2. Refer to warranty documentation for complete warranty details.
3. Refer to installation manual for complete installation requirements.

MRV5
DC INVERTER

MRV-S
SERIES



MVHR432ME2CA

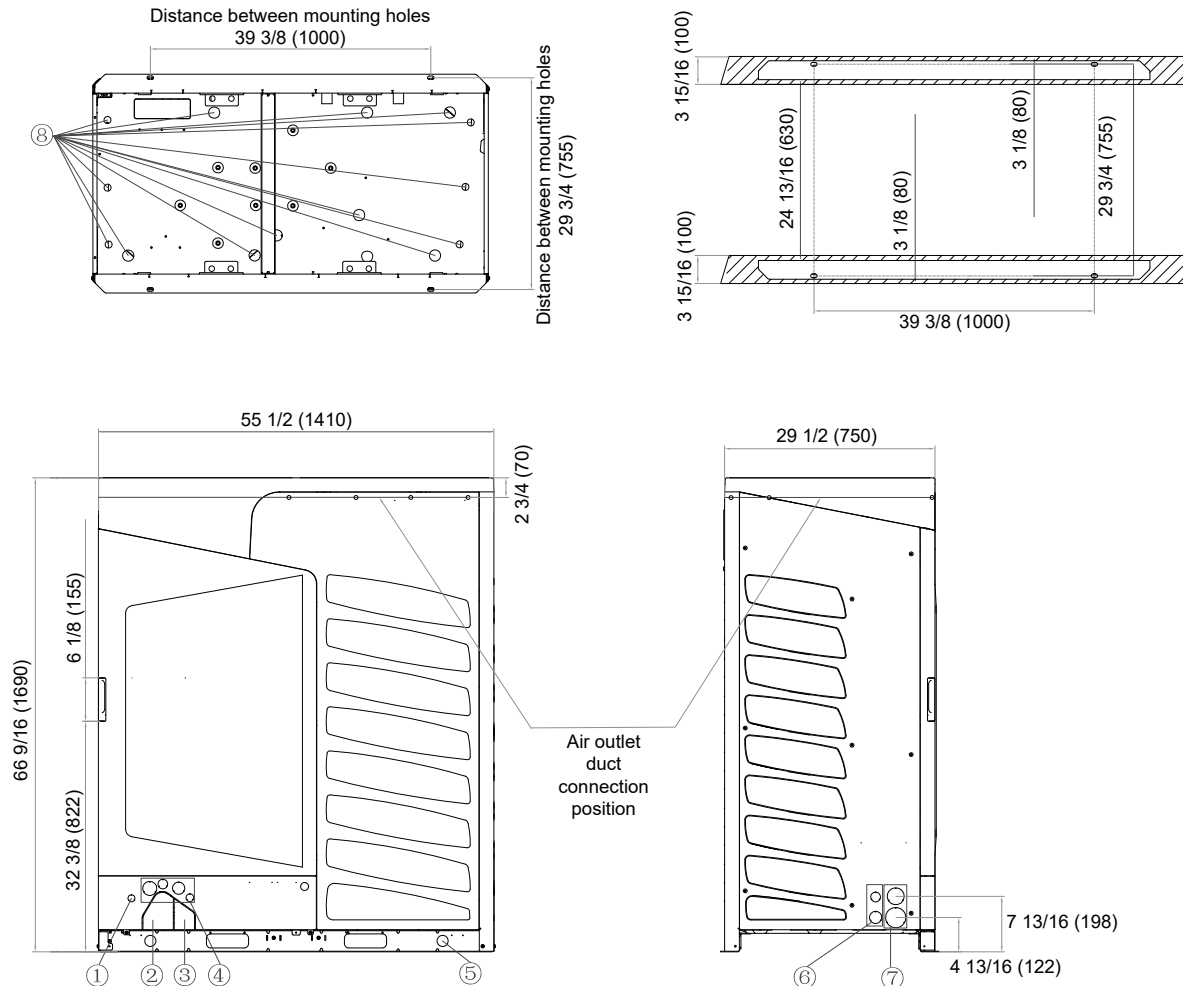
 MRV 5 Series Heat Recovery
 36 Tons

	Module 1 MVHR144ME2CA	Module 2 MVHR144ME2CA	Module 3 MVHR144ME2CA
Technical Details			
Compressor Type	DC Inverter x 2	DC Inverter x 2	DC Inverter x 2
Compressor RLA	20.5+20.5 A	20.5+20.5 A	20.5+20.5 A
Condenser Fan Qty	2	2	2
Condenser Fan Type	Propeller	Propeller	Propeller
Condenser Fan CFM	10,500	10,500	10,500
Factory Refrigerant Charge	43.65 lbs.	43.65 lbs.	43.65 lbs.
Electrical			
Voltage (V / Ø / Hz)	208-230 / 3 / 60	208-230 / 3 / 60	208-230 / 3 / 60
Minimum Circuit Ampacity (MCA)	58.9 A	58.9 A	58.9 A
Maximum Overcurrent Protection	80 A	80 A	80 A
Sound Levels²			
Sound Power Level, dB(A)	83	83	83
Dimensions			
Height (in.)	66 1/2	66 1/2	66 1/2
Width (in.)	55 1/2	55 1/2	55 1/2
Depth (in.)	29 1/2	29 1/2	29 1/2
Weight (lb.)	871	871	871
Piping			
Connections, Liquid/Gas	5/8" x 1 1/8"	5/8" x 1 1/8"	5/8" x 1 1/8"

Dimensional Drawings

MVHR144ME2CA

Unit: inch (mm)



No.	Name	Remark
①	Signal line opening (1)	Use rubber grommet for protection
②	Pipe outlet for 2-pipe system	
③	Pipe outlet for 3-pipe system	
④	Power supply opening (2 / 1-2/5)	According to the wire diameter size to choose the appropriate line opening, and using the line sheath in the unit's attachment for protection.
⑤	Hoisting opening (1-3/5)	
⑥	Power supply of signal line opening (1-2/5 / 1-3/4)	
⑦	Refrigerant pipe outlet (2-2/5 / 2-4/5)	
⑧	Drain opening	