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**Submittal Data Sheet**

Haier

# VRF ODU Unit – 6T

## MVHQ072ME4CA


## FEATURES & BENEFITS

- Single chassis module 6-20T, 3 modules combination up to 38T.
- Increased operation ranges from -22°F heating to 122°F cooling.
- Improved quiet operation with a 10 dB(A) sound level reduction.
- Electronic Expansion Valves allow for precise temperature control at ±0.5°F.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____

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# Submittal Data Sheet

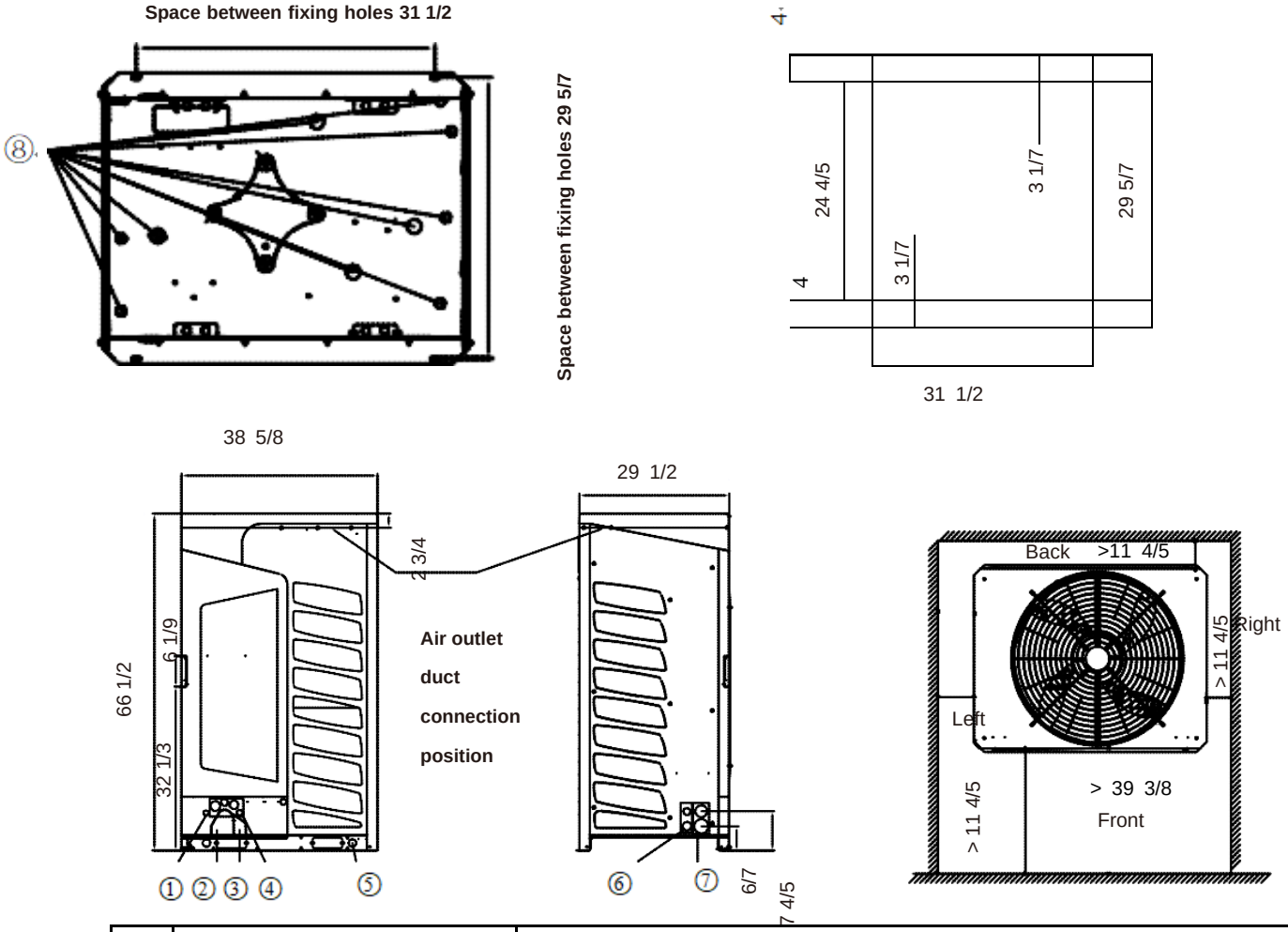
Haier

## SPECIFICATIONS

| Marketing Model name | | MVHQ072ME4CA | Notes |
|---|---|---|---|
| Nominal Capacity (Btu/h) | | 72000 | Compatible with all Haier MRV indoor units.<br>**Structure**<br>The unit shall be galvanized steel with a powder coated finish.<br>Hinge access door design for easier installation and maintenance<br>**Heat Exchanger**<br>The heat exchanger shall be mechanically bonded fin to copper tube.<br>The aluminum fins of the heat exchanger shall have a protective coating.<br>Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours.<br>**Refrigerant System**<br>EVI compressors provide advanced low ambient heating performance.<br>Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.<br>Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.<br>**Automatic oil balancing**<br>The oil is balanced automatically internally which simplifies system design and improves reliability.<br>**Agency**<br>Certified to latest version AHRI standard 1230.<br>**Snow hood accessory**<br>**HP-MRV5S**<br>Compatible with optional snow hood accessories to protect unit in the worst weather.<br>**Recommendation:**<br>The minimum number of indoor machine connections is greater than or equal to 2. |
| Electrical | Voltage, Cycle, Phase *V/Hz/-* | 460/60/3 | |
| Performance Non-Ducted | Rated Cooling Capacity@95°F (Btu/h) | 69000 | |
| | EER @95 °F | 12.60 | |
| | IEER | 23.60 | |
| | Rated Heating Capacity @47°F(Btu/h) | 77000 | |
| | COP @ 47°F | 3.60 | |
| | Rated Heating Capacity@17°F(Btu/h) | 53000 | |
| | COP @ 17°F | 2.50 | |
| | SCHE | 24.4 | |
| Performance Ducted | Rated Cooling Capacity@95°F (Btu/h) | 69000 | |
| | EER @95 °F | 12.00 | |
| | IEER | 20.50 | |
| | Rated Heating Capacity @47°F(Btu/h) | 77000 | |
| | COP @ 47°F | 3.53 | |
| | Rated Heating Capacity@17°F(Btu/h) | 53000 | |
| | COP @ 17°F | 2.45 | |
| | SCHE | 20 | |
| Electrical | MCA（A）/ MOP（A） | 16/20 | |
| Operation Range | Working temp. Cooling Fº+ Snow hood | -4F-122F | |
| | Working temp. Heating Fº | -22°F ~60°F | |
| ODU | Dimension: H*W*D | 66-1/2 *38-5/8*29-1/2 | |
| | Refrigerant charge（oz.） | 511.5 | |
| | Net Weight- *lbs* | 606 | |
| Compressor | Type | Scroll | |
| | Qty | 1 | |
| | Oil Type | FVC68D | |
| | Refrigerant Type | R410A | |
| Connection ratio | Maximum number of indoor units | 15 | |
| | Connection ratio (IDU/ODU capacity) | 50% — 130% | |
| Fan | Type/ Qty | Propeller/1 | |
| | CFM | 7748 | |
| Refrigerant piping | Liquid pipe O.D. I in | 3/8 | |
| | Gas pipe O.D. i in | 7/8 | |
| | High Gas pipe O.D. i in | 7/8 | |
| Sound | Sound Level dB(A) | 60 | |

## Drawing

UNIT: Inches




| No. | Name Remark | |
|---|---|---|
| 1 | Signal line hole(Ø1) | Using the rubber plug in the unit's attachment for protection |
| 2 | Pipe outlet for 2-pipe system | |
| 3 | Pipe outlet for 3-pipe system | |
| 4 | Power supply hole | According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection |
| 5 | Hoisting hole | |
| 6 | Power supply of signal line hole | |
| 7 | Refrigerant pipe outlet | |
| 8 | Drain hole | |

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Haier

# VRF ODU Unit – 8T

## MVHQ096ME4CA


## FEATURES & BENEFITS

- Single chassis module 6-20T, 3 modules combination up to 38T.
- Increased operation ranges from -22°F heating to 122°F cooling.
- Improved quiet operation with a 10 dB(A) sound level reduction.
- Electronic Expansion Valves allow for precise temperature control at ±0.5°F.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____

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# Submittal Data Sheet

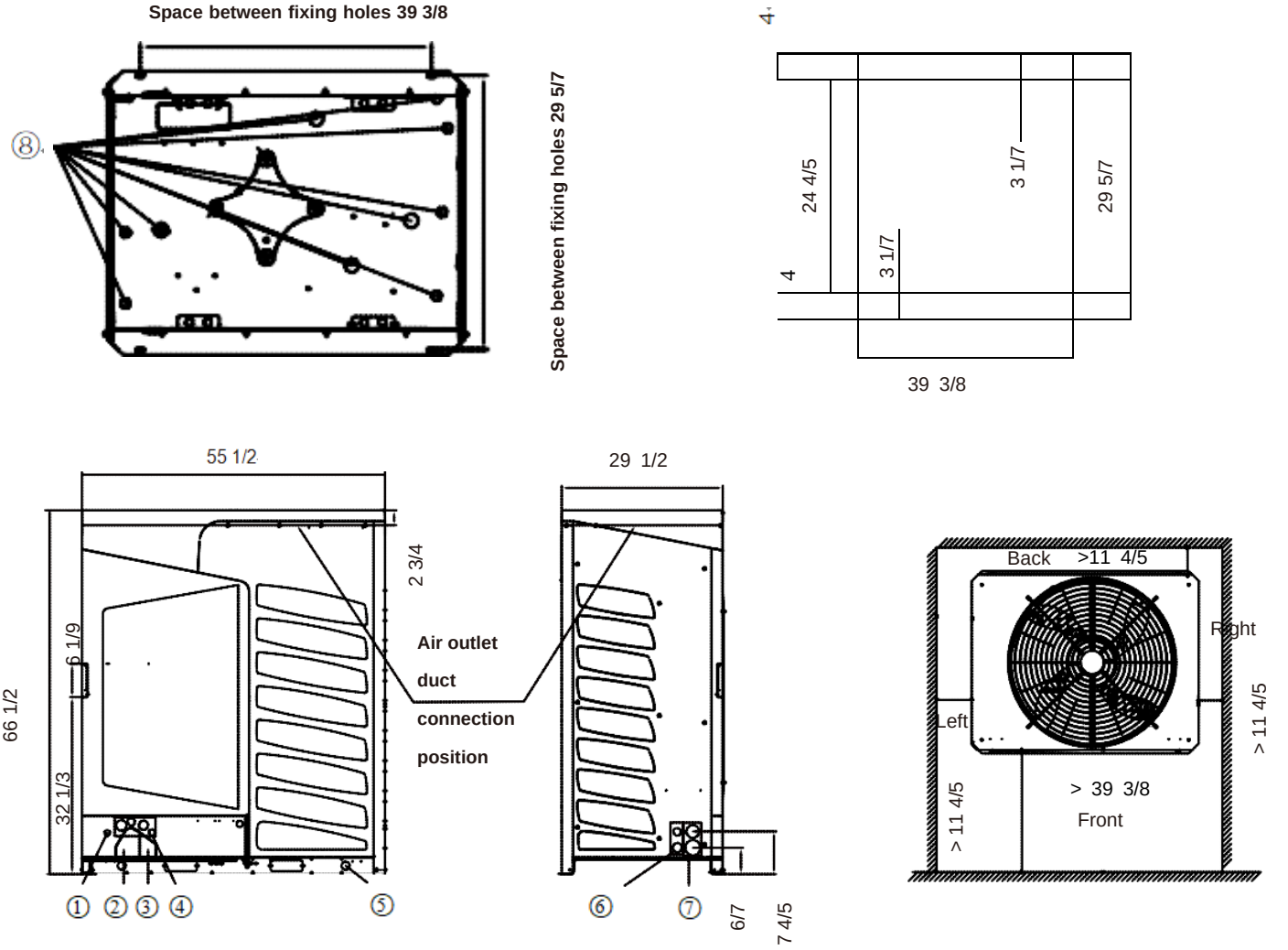
Haier

## SPECIFICATIONS

| Marketing Model name | | MVHQ096ME4CA | Notes |
|---|---|---|---|
| Nominal Capacity (Btu/h) | | 96000 | Compatible with all Haier MRV indoor units.<br>**Structure**<br>The unit shall be galvanized steel with a powder coated finish.<br>Hinge access door design for easier maintenance, saving much labor.<br>**Heat Exchanger**<br>The heat exchanger shall be mechanically bonded fin to copper tube.<br>The aluminum fins of the heat exchanger shall have a protective coating.<br>Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours.<br>**Refrigerant System**<br>EVI compressors provide advanced low ambient heating performance.<br>Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.<br>Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.<br>**Automatic oil balancing**<br>The oil is balanced automatically internally which simplifies system design and improves reliability.<br>**Agency**<br>Certified to latest version AHRI standard 1230.<br>**Snow hood accessory**<br>**HP-MRV5L**<br>Compatible to optional snow hood accessories to protect unit in the worst weather.<br>**Recommendation:**<br>The minimum number of indoor machine connections is greater than or equal to 2. |
| Electrical | Voltage, Cycle, Phase *V/Hz/-* | 460/60/3 | |
| Performance Non-Ducted | Rated Cooling Capacity@95°F (Btu/h) | 91000 | |
| | EER @95 °F | 11.90 | |
| | IEER | 23.10 | |
| | Rated Heating Capacity @47°F(Btu/h) | 103000 | |
| | COP @ 47°F | 3.60 | |
| | Rated Heating Capacity@17°F(Btu/h) | 72000 | |
| | COP @ 17°F | 2.50 | |
| | SCHE | 23 | |
| Performance Ducted | Rated Cooling Capacity@95°F (Btu/h) | 91000 | |
| | EER @95 °F | 12.20 | |
| | IEER | 21.80 | |
| | Rated Heating Capacity @47°F(Btu/h) | 103000 | |
| | COP @ 47°F | 3.53 | |
| | Rated Heating Capacity@17°F(Btu/h) | 72000 | |
| | COP @ 17°F | 2.45 | |
| | SCHE | 21.4 | |
| Electrical | MCA（A）/ MOP（A） | 20/25 | |
| Operation Range | Working temp. Cooling Fº+ Snow hood | -4F-122F | |
| | Working temp. Heating Fº | -22°F ~60°F | |
| ODU | Dimension: H*W*D | 66-1/2 *55-1/2*29-1/2 | |
| | Refrigerant charge （oz.） | 754.8 | |
| | Net Weight- *lbs* | 756 | |
| Compressor | Type | Scroll | |
| | Qty | 1 | |
| | Oil Type | FVC68D | |
| | Refrigerant Type | R410A | |
| Connection ratio | Maximum number of indoor units | 18 | |
| | Connection ratio (IDU/ODU capacity) | 50% — 130% | |
| Fan | Type/ Qty | Propeller/2 | |
| | CFM | 9942 | |
| Refrigerant piping | Liquid pipe O.D. I in | 1/2 | |
| | Gas pipe O.D. i in | 7/8 | |
| | High Gas pipe O.D. i in | 7/8 | |
| Sound | Sound Level dB(A) | 61 | |

## Drawing

UNIT: Inches




| No. | Name Remark | |
|---|---|---|
| 1 | Signal line hole(Ø1) | Using the rubber plug in the unit's attachment for protection |
| 2 | Pipe outlet for 2-pipe system | |
| 3 | Pipe outlet for 3-pipe system | |
| 4 | Power supply hole | According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection |
| 5 | Hoisting hole | |
| 6 | Power supply of signal line hole | |
| 7 | Refrigerant pipe outlet | |
| 8 | Drain hole | |

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# VRF ODU Unit – 10T

## MVHQ120ME4CA


## FEATURES & BENEFITS

- Single chassis module 6-20T, 3 modules combination up to 38T.
- Increased operation ranges from -22°F heating to 122°F cooling.
- Improved quiet operation with a 10 dB(A) sound level reduction.
- Electronic Expansion Valves allow for precise temperature control at ±0.5°F.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____

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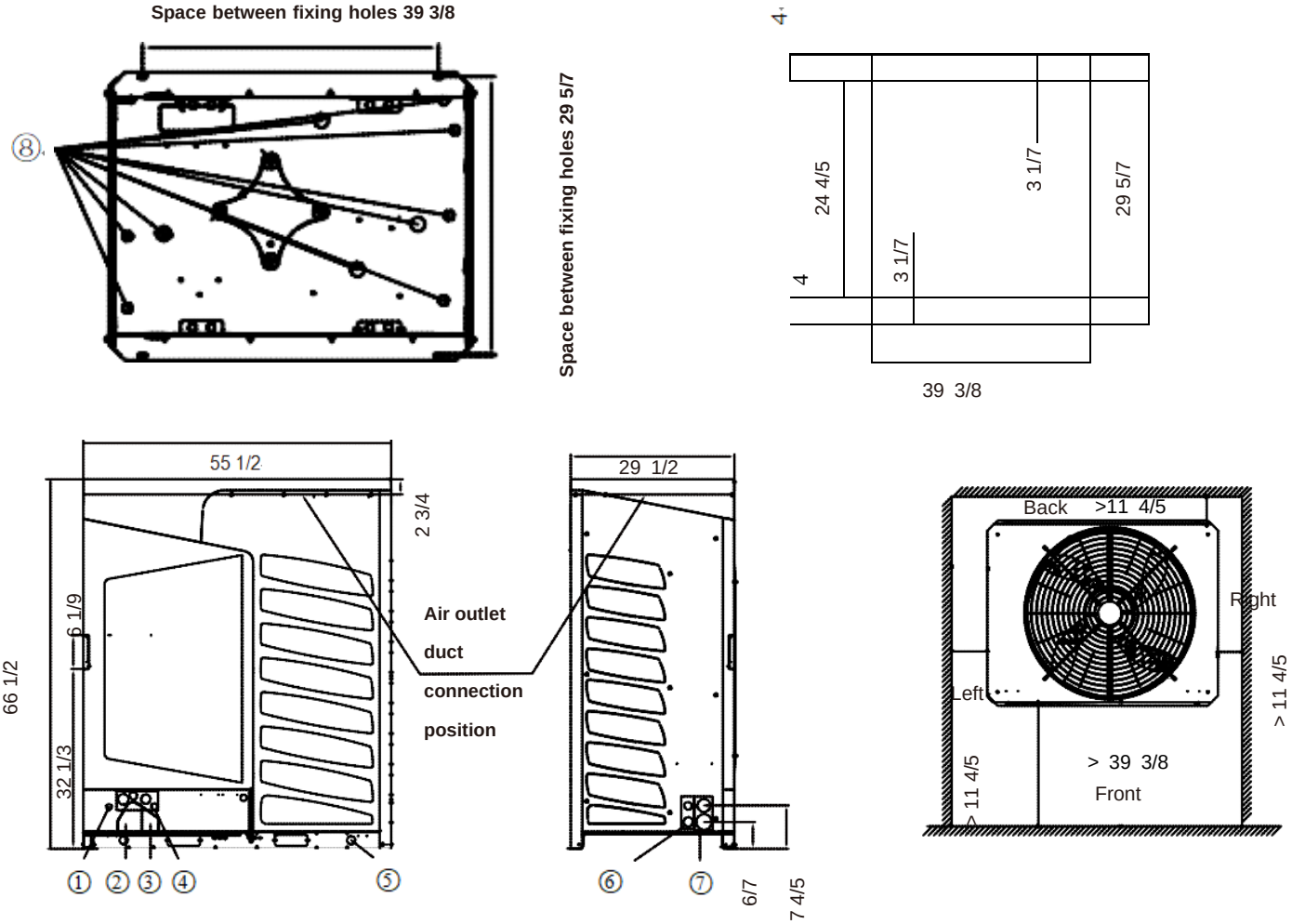
## SPECIFICATIONS

| Marketing Model name | | MVHQ120ME4CA | Notes |
|---|---|---|---|
| Nominal Capacity (Btu/h) | | 120000 | Compatible with all Haier MRV indoor units.<br>**Structure**<br>The unit shall be galvanized steel with a powder coated finish.<br>Hinge access door design for easier installation and maintenance<br>**Heat Exchanger**<br>The heat exchanger shall be mechanically bonded fin to copper tube.<br>The aluminum fins of the heat exchanger shall have a protective coating.<br>Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours.<br>**Refrigerant System**<br>EVI compressors provide advanced low ambient heating performance.<br>Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.<br>Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.<br>**Automatic oil balancing**<br>The oil is balanced automatically internally which simplifies system design and improves reliability.<br>**Agency**<br>Certified to latest version AHRI standard 1230.<br>**Snow hood accessory**<br>**HP-MRV5L**<br>Compatible to optional snow hood accessories to protect unit in the worst weather.<br>**Recommendation:**<br>The minimum number of indoor machine connections is greater than or equal to 2. |
| Electrical | Voltage, Cycle, Phase *V/Hz/-* | 460/60/3 | |
| Performance Non-Ducted | Rated Cooling Capacity@95°F (Btu/h) | 115000 | |
| | EER @95 °F | 11.60 | |
| | IEER | 23.00 | |
| | Rated Heating Capacity @47°F(Btu/h) | 129000 | |
| | COP @ 47°F | 3.60 | |
| | Rated Heating Capacity@17°F(Btu/h) | 84000 | |
| | COP @ 17°F | 2.50 | |
| | SCHE | 21.7 | |
| Performance Ducted | Rated Cooling Capacity@95°F (Btu/h) | 115000 | |
| | EER @95 °F | 11.20 | |
| | IEER | 21.60 | |
| | Rated Heating Capacity @47°F(Btu/h) | 129000 | |
| | COP @ 47°F | 3.53 | |
| | Rated Heating Capacity@17°F(Btu/h) | 84000 | |
| | COP @ 17°F | 2.45 | |
| | SCHE | 21.4 | |
| Electrical | MCA（A）/ MOP（A） | 22/30 | |
| Operation Range | Working temp. Cooling Fº+ Snow hood | -4F-122F | |
| | Working temp. Heating Fº | -22°F ~60°F | |
| ODU | Dimension: H*W*D | 66-1/2 *55-1/2*29-1/2 | |
| | Refrigerant charge（oz.） | 754.8 | |
| | Net Weight- *lbs* | 756 | |
| Compressor | Type | Scroll | |
| | Qty | 1 | |
| | Oil Type | FVC68D | |
| | Refrigerant Type | R410A | |
| Connection ratio | Maximum number of indoor units | 21 | |
| | Connection ratio (IDU/ODU capacity) | 50% — 130% | |
| Fan | Type/ Qty | Propeller/2 | |
| | CFM | 9942 | |
| Refrigerant piping | Liquid pipe O.D. I in | 1/2 | |
| | Gas pipe O.D. i in | 1 1/8 | |
| | High Gas pipe O.D. i in | 1 1/8 | |
| Sound | Sound Level dB(A) | 61 | |

## Drawing

UNIT: Inches




| No. | Name Remark | |
|---|---|---|
| 1 | Signal line hole(Ø1) | Using the rubber plug in the unit's attachment for protection |
| 2 | Pipe outlet for 2-pipe system | |
| 3 | Pipe outlet for 3-pipe system | |
| 4 | Power supply hole | According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection |
| 5 | Hoisting hole | |
| 6 | Power supply of signal line hole | |
| 7 | Refrigerant pipe outlet | |
| 8 | Drain hole | |

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**Submittal Data Sheet**

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# VRF ODU Unit – 12T

## MVHQ144ME4CA


## FEATURES & BENEFITS

- Single chassis module 6-20T, 3 modules combination up to 38T.
- Increased operation ranges from -22°F heating to 122°F cooling.
- Improved quiet operation with a 10 dB(A) sound level reduction.
- Electronic Expansion Valves allow for precise temperature control at ±0.5°F.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____

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# Submittal Data Sheet

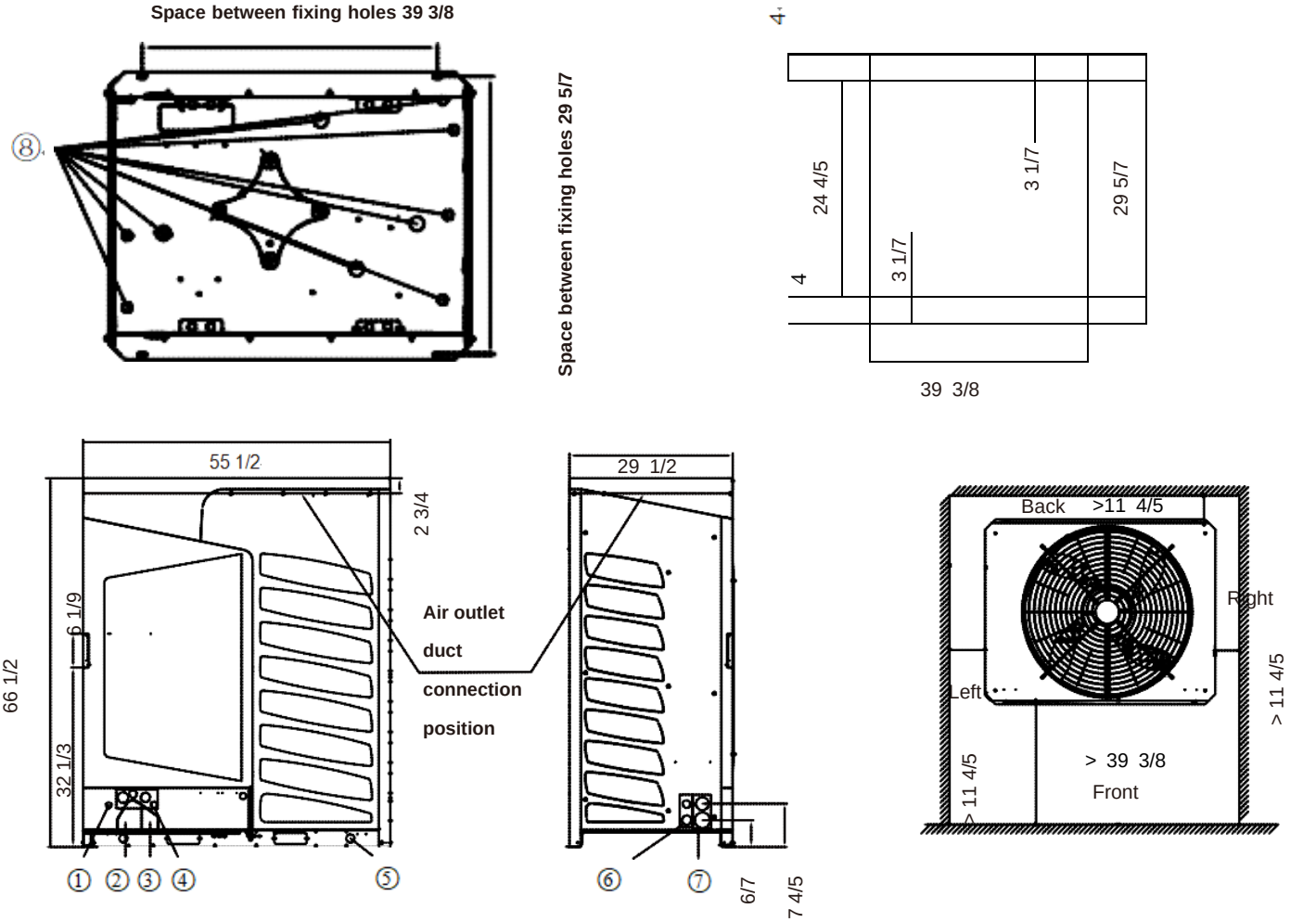
Haier

## SPECIFICATIONS

| Marketing Model name | | MVHQ144ME4CA | Notes |
|---|---|---|---|
| Nominal Capacity (Btu/h) | | 144000 | Compatible with all Haier MRV indoor units.<br>**Structure**<br>The unit shall be galvanized steel with a powder coated finish.<br>Hinge access door design for easier installation and maintenance<br>**Heat Exchanger**<br>The heat exchanger shall be mechanically bonded fin to copper tube.<br>The aluminum fins of the heat exchanger shall have a protective coating.<br>Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours.<br>**Refrigerant System**<br>EVI compressors provide advanced low ambient heating performance.<br>Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.<br>Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.<br>**Automatic oil balancing**<br>The oil is balanced automatically internally which simplifies system design and improves reliability.<br>**Agency**<br>Certified to latest version AHRI standard 1230.<br>**Snow hood accessory**<br>**HP-MRV5L**<br>Compatible to optional snow hood accessories to protect unit in the worst weather.<br>**Recommendation:**<br>The minimum number of indoor machine connections is greater than or equal to 2. |
| Electrical | Voltage, Cycle, Phase *V/Hz/-* | 460/60/3 | |
| Performance Non-Ducted | Rated Cooling Capacity@95°F (Btu/h) | 138000 | |
| | EER @95 °F | 10.80 | |
| | IEER | 20.00 | |
| | Rated Heating Capacity @47°F(Btu/h) | 154000 | |
| | COP @ 47°F | 3.50 | |
| | Rated Heating Capacity@17°F(Btu/h) | 108000 | |
| | COP @ 17°F | 2.30 | |
| | SCHE | 21.6 | |
| Performance Ducted | Rated Cooling Capacity@95°F (Btu/h) | 138000 | |
| | EER @95 °F | 10.80 | |
| | IEER | 20.30 | |
| | Rated Heating Capacity @47°F(Btu/h) | 154000 | |
| | COP @ 47°F | 3.43 | |
| | Rated Heating Capacity@17°F(Btu/h) | 108000 | |
| | COP @ 17°F | 2.25 | |
| | SCHE | 20.6 | |
| Electrical | MCA（A）/ MOP（A） | 30/40 | |
| Operation Range | Working temp. Cooling Fº+ Snow hood | -4°F -122°F | |
| | Working temp. Heating Fº | -22°F ~60°F | |
| ODU | Dimension: H*W*D | 66-1/2*55-1/2*29-1/2 | |
| | Refrigerant charge （oz.） | 783.1 | |
| | Net Weight- *lbs* | 895 | |
| Compressor | Type | Scroll | |
| | Qty | 2 | |
| | Oil Type | FVC68D | |
| | Refrigerant Type | R410A | |
| Connection ratio | Maximum number of indoor units | 24 | |
| | Connection ratio (IDU/ODU capacity) | 50% — 130% | |
| Fan | Type/ Qty | Propeller/2 | |
| | CFM | 9942 | |
| Refrigerant piping | Liquid pipe O.D. I in | 1/2 | |
| | Gas pipe O.D. i in | 1 1/8 | |
| | High Gas pipe O.D. i in | 1 1/8 | |
| Sound | Sound Level dB(A) | 62 | |

## Drawing

UNIT: Inches




| No. | Name Remark | |
|---|---|---|
| 1 | Signal line hole(Ø1) | Using the rubber plug in the unit's attachment for protection |
| 2 | Pipe outlet for 2-pipe system | |
| 3 | Pipe outlet for 3-pipe system | |
| 4 | Power supply hole | According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection |
| 5 | Hoisting hole | |
| 6 | Power supply of signal line hole | |
| 7 | Refrigerant pipe outlet | |
| 8 | Drain hole | |

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# VRF ODU Unit – 14T

## MVHQ168ME4CA


## FEATURES & BENEFITS

- Single chassis module 6-20T, 3 modules combination up to 38T.
- Increased operation ranges from -22°F heating to 122°F cooling.
- Improved quiet operation with a 10 dB(A) sound level reduction.
- Electronic Expansion Valves allow for precise temperature control at ±0.5°F.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____

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# Submittal Data Sheet

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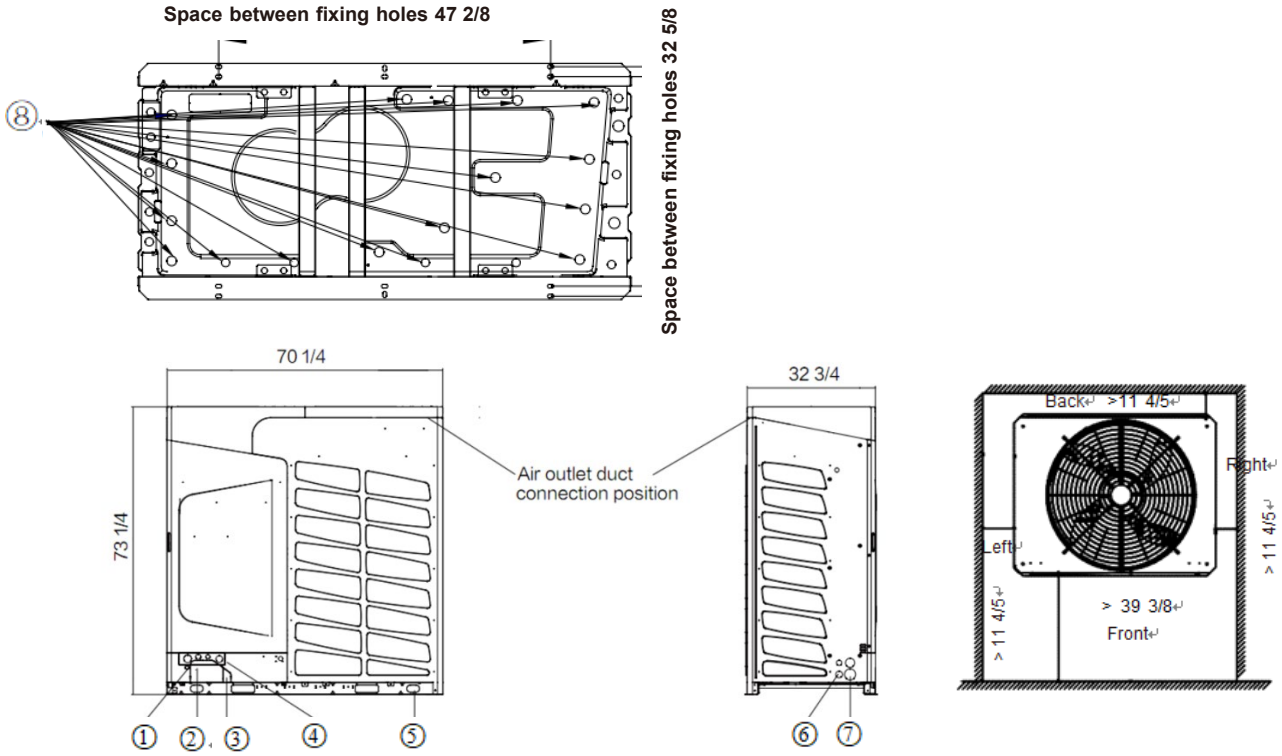
## SPECIFICATIONS

| Marketing Model name | | MVHQ168ME4CA | Notes |
|---|---|---|---|
| Nominal Capacity (Btu/h) | | 168000 | Compatible with all Haier MRV indoor units. |
| Electrical | Voltage, Cycle, Phase *V/Hz/-* | 460/60/3 | **Structure** |
| Performance Non-Ducted | Rated Cooling Capacity@95°F (Btu/h) | 160000 | The unit shall be galvanized steel with a powder coated finish. |
| | EER @95 °F | 11.40 | Hinge access door design for easier maintenance, saving much labor. |
| | IEER | 23.20 | **Heat Exchanger** |
| | Rated Heating Capacity @47°F(Btu/h) | 180000 | The heat exchanger shall be mechanically bonded fin to copper tube. |
| | COP @ 47°F | 3.60 | The aluminum fins of the heat exchanger shall have a protective coating. |
| | Rated Heating Capacity@17°F(Btu/h) | 122000 | Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. |
| | COP @ 17°F | 2.50 | **Refrigerant System** |
| | SCHE | 26 | EVI compressors provide advanced low ambient heating performance. |
| Performance Ducted | Rated Cooling Capacity@95°F (Btu/h) | 160000 | Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. |
| | EER @95 °F | 11.50 | Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. |
| | IEER | 21.50 | **Automatic oil balancing** |
| | Rated Heating Capacity @47°F(Btu/h) | 180000 | The oil is balanced automatically internally which simplifies system design and improves reliability. |
| | COP @ 47°F | 3.40 | **Agency** |
| | Rated Heating Capacity@17°F(Btu/h) | 122000 | Certified to latest version AHRI standard 1230. |
| | COP @ 17°F | 2.40 | **Snow hood accessory** |
| | SCHE | 24.7 | Compatible to optional snow hood accessories to protect unit in the worst weather. |
| Electrical | MCA（A）/ MOP（A） | 40/60 | **Recommendation:** |
| Operation Range | Working temp. Cooling F°+ Snow hood | -4°F -122°F | The minimum number of indoor machine connections is greater than or equal to 2. |
| | Working temp. Heating F° | -22°F ~60°F | |
| ODU | Dimension: H*W*D | 73-1/4*70-1/4*32-1/4 | |
| | Refrigerant charge（oz.） | 1040.6 | |
| | Net Weight- *lbs* | 1162.0 | |
| Compressor | Type | Scroll | |
| | Qty | 2 | |
| | Oil Type | FVC68D | |
| | Refrigerant Type | R410A | |
| Connection ratio | Maximum number of indoor units | 33 | |
| | Connection ratio (IDU/ODU capacity) | 50% — 130% | |
| Fan | Type/ Qty | Propeller/2 | |
| | CFM | 16400 | |
| Refrigerant piping | Liquid pipe O.D. I in | 5/8 | |
| | Gas pipe O.D. i in | 1-1/8 | |
| | High Gas pipe O.D. i in | 1-1/8 | |
| Sound | Sound Level dB(A) | 72 | |

## Drawing

UNIT: Inches




| No. | Name Remark | |
|---|---|---|
| 1 | Signal line hole(Ø25) | Using the rubber plug in the unit's attachment for protection |
| 2 | Pipe outlet for 2-pipe system | |
| 3 | Pipe outlet for 3-pipe system | |
| 4 | Power supply hole | According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection |
| 5 | Hoisting hole | |
| 6 | Power supply of signal line hole | |
| 7 | Refrigerant pipe outlet | |
| 8 | Drain hole | |

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**Submittal Data Sheet**

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# VRF ODU Unit – 16T

## MVHQ192ME4CA


## FEATURES & BENEFITS

- Single chassis module 6-20T, 3 modules combination up to 38T.
- Increased operation ranges from -22°F heating to 122°F cooling.
- Improved quiet operation with a 10 dB(A) sound level reduction.
- Electronic Expansion Valves allow for precise temperature control at ±0.5°F.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____

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AIR&WATER SOLUTIONS

WATER HEATING & TREATMENT | COMMERCIAL AC | DUCTLESS & VRF

# Submittal Data Sheet

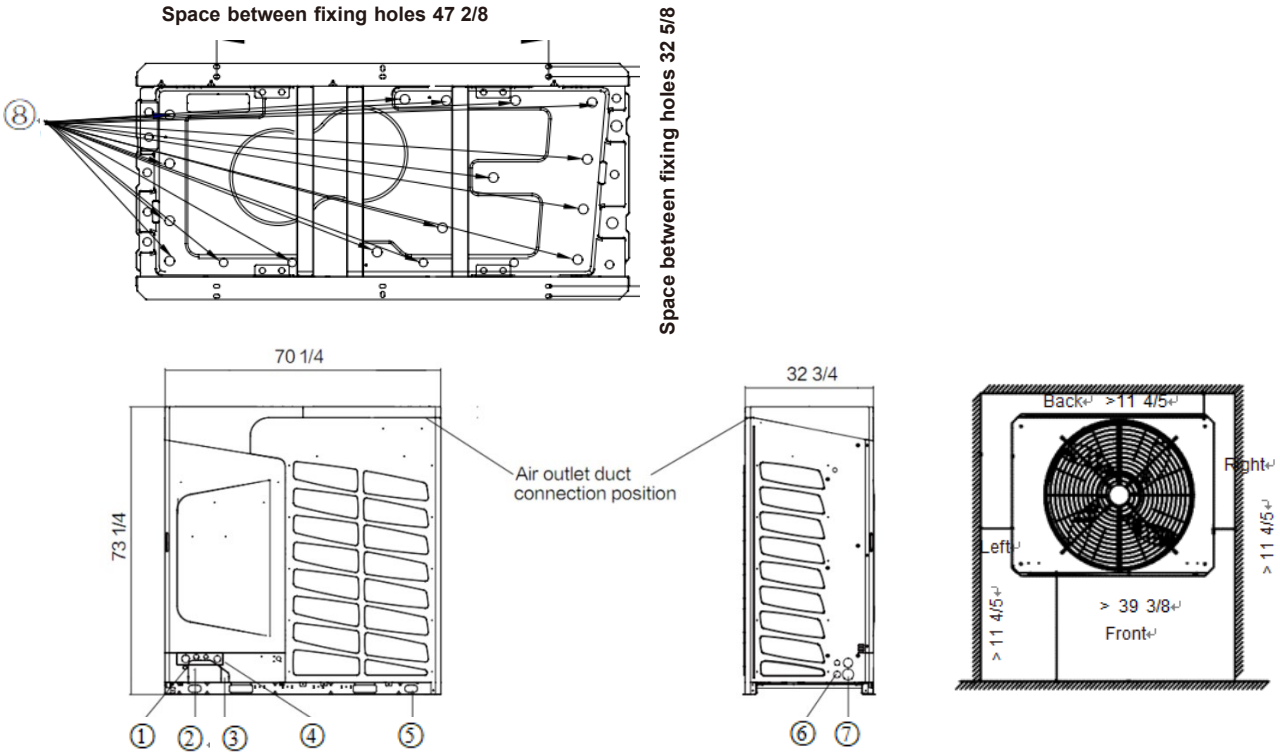
Haier

## SPECIFICATIONS

| Marketing Model name | | MVHQ192ME4CA | Notes |
|---|---|---|---|
| Nominal Capacity (Btu/h) | | 192000 | Compatible with all Haier MRV indoor units.<br>**Structure**<br>The unit shall be galvanized steel with a powder coated finish.<br>Hinge access door design for easier maintenance, saving much labor.<br>**Heat Exchanger**<br>The heat exchanger shall be mechanically bonded fin to copper tube.<br>The aluminum fins of the heat exchanger shall have a protective coating.<br>Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours.<br>**Refrigerant System**<br>EVI compressors provide advanced low ambient heating performance.<br>Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.<br>Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.<br>**Automatic oil balancing**<br>The oil is balanced automatically internally which simplifies system design and improves reliability.<br>**Agency**<br>Certified to latest version AHRI standard 1230.<br>**Snow hood accessory**<br>Compatible to optional snow hood accessories to protect unit in the worst weather.<br>**Recommendation:**<br>The minimum number of indoor machine connections is greater than or equal to 2. |
| Electrical | Voltage, Cycle, Phase *V/Hz/-* | 460/60/3 | |
| Performance Non-Ducted | Rated Cooling Capacity@95°F (Btu/h) | 184000 | |
| | EER @95 °F | 11.20 | |
| | IEER | 22.20 | |
| | Rated Heating Capacity @47°F(Btu/h) | 206000 | |
| | COP @ 47°F | 3.50 | |
| | Rated Heating Capacity@17°F(Btu/h) | 138000 | |
| | COP @ 17°F | 2.40 | |
| | SCHE | 26.7 | |
| Performance Ducted | Rated Cooling Capacity@95°F (Btu/h) | 184000 | |
| | EER @95 °F | 11.30 | |
| | IEER | 21.10 | |
| | Rated Heating Capacity @47°F(Btu/h) | 206000 | |
| | COP @ 47°F | 3.30 | |
| | Rated Heating Capacity@17°F(Btu/h) | 138000 | |
| | COP @ 17°F | 2.40 | |
| | SCHE | 24.4 | |
| Electrical | MCA（A）/ MOP（A） | 42/60 | |
| Operation Range | Working temp. Cooling F°+ Snow hood | -4°F -122°F | |
| | Working temp. Heating F° | -22°F ~60°F | |
| ODU | Dimension: H*W*D | 73-1/4*70-1/4*32-1/4 | |
| | Refrigerant charge（oz.） | 1040.6 | |
| | Net Weight- *lbs* | 1162.0 | |
| Compressor | Type | Scroll | |
| | Qty | 2 | |
| | Oil Type | FVC68D | |
| | Refrigerant Type | R410A | |
| Connection ratio | Maximum number of indoor units | 36 | |
| | Connection ratio (IDU/ODU capacity) | 50% — 130% | |
| Fan | Type/ Qty | Propeller/2 | |
| | CFM | 16400 | |
| Refrigerant piping | Liquid pipe O.D. I in | 5/8 | |
| | Gas pipe O.D. i in | 1-1/8 | |
| | High Gas pipe O.D. i in | 1-1/8 | |
| Sound | Sound Level dB(A) | 72 | |

## Drawing

UNIT: Inches




| No. | Name Remark | |
|---|---|---|
| 1 | Signal line hole(Ø25) | Using the rubber plug in the unit's attachment for protection |
| 2 | Pipe outlet for 2-pipe system | |
| 3 | Pipe outlet for 3-pipe system | |
| 4 | Power supply hole | According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection |
| 5 | Hoisting hole | |
| 6 | Power supply of signal line hole | |
| 7 | Refrigerant pipe outlet | |
| 8 | Drain hole | |

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**Submittal Data Sheet**

Haier

# VRF ODU Unit – 18T

## MVHQ216ME4CA


## FEATURES & BENEFITS

- Single chassis module 6-20T, 3 modules combination up to 38T.
- Increased operation ranges from -22°F heating to 122°F cooling.
- Improved quiet operation with a 10 dB(A) sound level reduction.
- Electronic Expansion Valves allow for precise temperature control at ±0.5°F.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____

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WATER HEATING & TREATMENT | COMMERCIAL AC | DUCTLESS & VRF

# Submittal Data Sheet

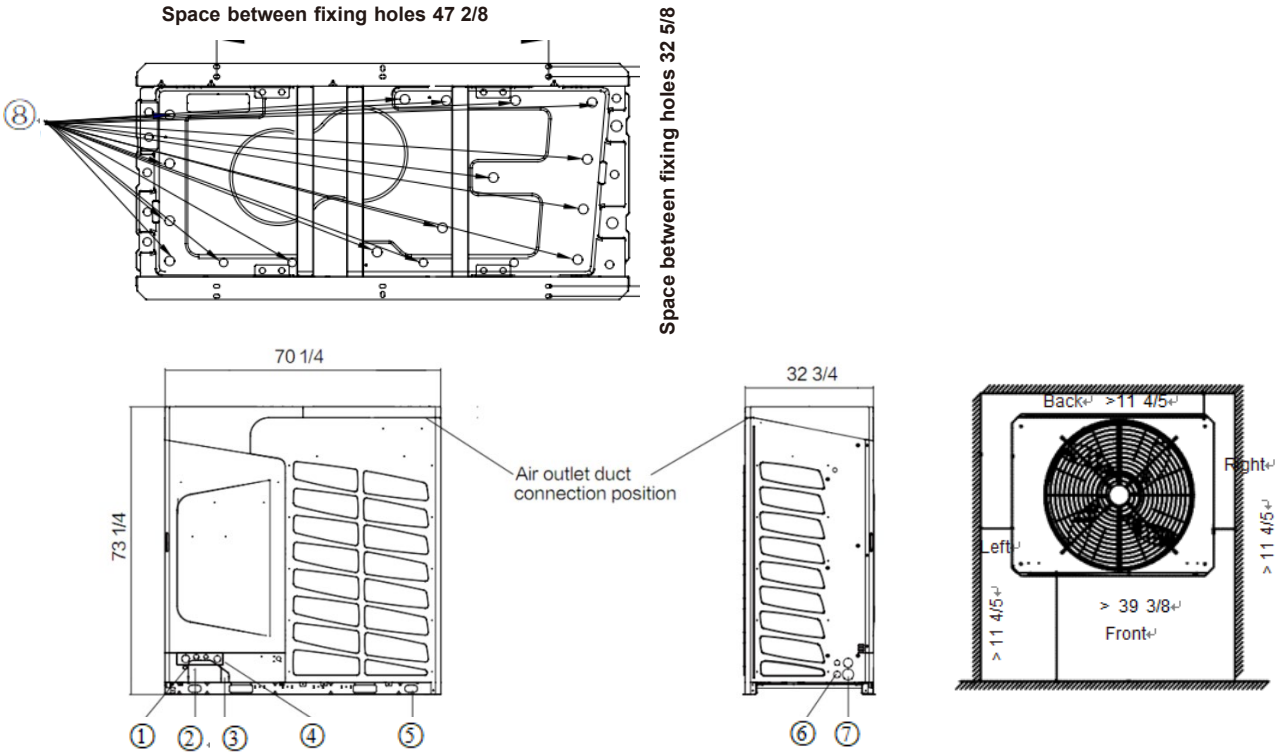
Haier

## SPECIFICATIONS

| Marketing Model name | | MVHQ216ME4CA | Notes |
|---|---|---|---|
| Nominal Capacity (Btu/h) | | 216000 | Compatible with all Haier MRV indoor units.<br>**Structure**<br>The unit shall be galvanized steel with a powder coated finish.<br>Hinge access door design for easier installation and maintenance<br>**Heat Exchanger**<br>The heat exchanger shall be mechanically bonded fin to copper tube.<br>The aluminum fins of the heat exchanger shall have a protective coating.<br>Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours.<br>**Refrigerant System**<br>EVI compressors provide advanced low ambient heating performance.<br>Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.<br>Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.<br>**Automatic oil balancing**<br>The oil is balanced automatically internally which simplifies system design and improves reliability.<br>**Agency**<br>Certified to latest version AHRI standard 1230.<br>**Snow hood accessory**<br>Compatible to optional snow hood accessories to protect unit in the worst weather.<br>**Recommendation:**<br>The minimum number of indoor machine connections is greater than or equal to 2. |
| Electrical | Voltage, Cycle, Phase *V/Hz/-* | 460/60/3 | |
| Performance Non-Ducted | Rated Cooling Capacity@95°F (Btu/h) | 206000 | |
| | EER @95 °F | 10.90 | |
| | IEER | 22.00 | |
| | Rated Heating Capacity @47°F(Btu/h) | 232000 | |
| | COP @ 47°F | 3.50 | |
| | Rated Heating Capacity@17°F(Btu/h) | 156000 | |
| | COP @ 17°F | 2.40 | |
| | SCHE | 25.6 | |
| Performance Ducted | Rated Cooling Capacity@95°F (Btu/h) | 206000 | |
| | EER @95 °F | 11.30 | |
| | IEER | 20.80 | |
| | Rated Heating Capacity @47°F(Btu/h) | 232000 | |
| | COP @ 47°F | 3.30 | |
| | Rated Heating Capacity@17°F(Btu/h) | 156000 | |
| | COP @ 17°F | 2.40 | |
| | SCHE | 24.2 | |
| Electrical | MCA（A）/ MOP（A） | 47/70 | |
| Operation Range | Working temp. Cooling F°+ Snow hood | -4°F -122°F | |
| | Working temp. Heating F° | -22°F ~60°F | |
| ODU | Dimension: H*W*D | 73-1/4*70-1/4*32-1/4 | |
| | Refrigerant charge（oz.） | 1040.6 | |
| | Net Weight- *lbs* | 1162.0 | |
| Compressor | Type | Scroll | |
| | Qty | 2 | |
| | Oil Type | FVC68D | |
| | Refrigerant Type | R410A | |
| Connection ratio | Maximum number of indoor units | 39 | |
| | Connection ratio (IDU/ODU capacity) | 50% — 130% | |
| Fan | Type/ Qty | Propeller/2 | |
| | CFM | 16400 | |
| Refrigerant piping | Liquid pipe O.D. I in | 5/8 | |
| | Gas pipe O.D. i in | 1-1/8 | |
| | High Gas pipe O.D. i in | 1-1/8 | |
| Sound | Sound Level dB(A) | 72 | |

## Drawing

UNIT: Inches




| No. | Name Remark | |
|---|---|---|
| 1 | Signal line hole(Ø25) | Using the rubber plug in the unit's attachment for protection |
| 2 | Pipe outlet for 2-pipe system | |
| 3 | Pipe outlet for 3-pipe system | |
| 4 | Power supply hole | According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection |
| 5 | Hoisting hole | |
| 6 | Power supply of signal line hole | |
| 7 | Refrigerant pipe outlet | |
| 8 | Drain hole | |

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**Submittal Data Sheet**

Haier

# VRF ODU Unit – 20T

## MVHQ240ME4CA


## FEATURES & BENEFITS

- Single chassis module 6-20T, 3 modules combination up to 38T.
- Increased operation ranges from -22°F heating to 122°F cooling.
- Improved quiet operation with a 10 dB(A) sound level reduction.
- Electronic Expansion Valves allow for precise temperature control at ±0.5°F.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____

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# Submittal Data Sheet

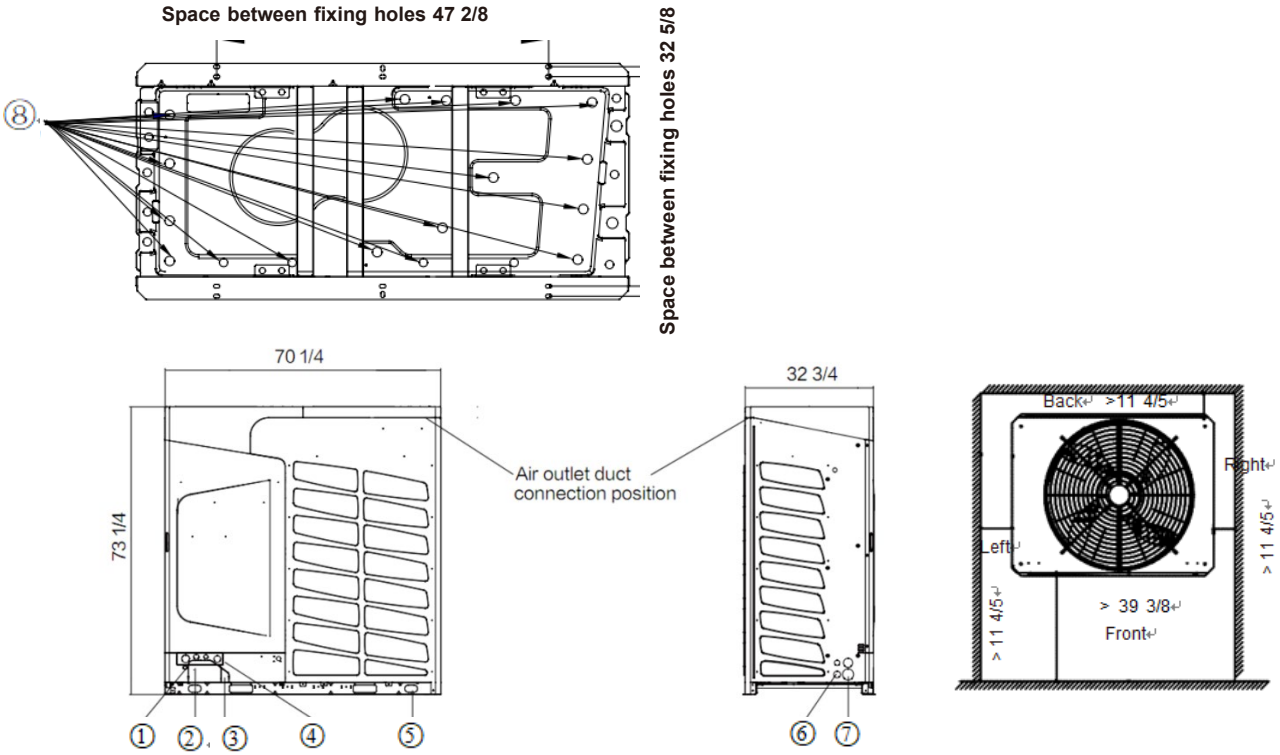
Haier

## SPECIFICATIONS

| Marketing Model name | | MVHQ240ME4CA | Notes |
|---|---|---|---|
| Nominal Capacity (Btu/h) | | 240000 | Compatible with all Haier MRV indoor units. |
| Electrical | Voltage, Cycle, Phase *V/Hz/-* | 460/60/3 | **Structure** |
| Performance Non-Ducted | Rated Cooling Capacity@95°F (Btu/h) | 222000 | The unit shall be galvanized steel with a powder coated finish. |
| | EER @95 °F | 10.10 | Hinge access door design for easier installation and maintenance |
| | IEER | 20.30 | **Heat Exchanger** |
| | Rated Heating Capacity @47°F(Btu/h) | 240000 | The heat exchanger shall be mechanically bonded fin to copper tube. |
| | COP @ 47°F | 3.40 | The aluminum fins of the heat exchanger shall have a protective coating. |
| | Rated Heating Capacity@17°F(Btu/h) | 168000 | Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. |
| | COP @ 17°F | 2.40 | **Refrigerant System** |
| | SCHE | 24.6 | EVI compressors provide advanced low ambient heating performance. |
| Performance Ducted | Rated Cooling Capacity@95°F (Btu/h) | 222000 | Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. |
| | EER @95 °F | 10.60 | Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. |
| | IEER | 20.30 | **Automatic oil balancing** |
| | Rated Heating Capacity @47°F(Btu/h) | 240000 | The oil is balanced automatically internally which simplifies system design and improves reliability. |
| | COP @ 47°F | 3.30 | **Agency** |
| | Rated Heating Capacity@17°F(Btu/h) | 168000 | Certified to latest version AHRI standard 1230. |
| | COP @ 17°F | 2.30 | **Snow hood accessory** |
| | SCHE | 23.6 | Compatible to optional snow hood accessories to protect unit in the worst weather. |
| Electrical | MCA（A）/ MOP（A） | 51/80 | **Recommendation:** |
| Operation Range | Working temp. Cooling F°+ Snow hood | -4°F -122°F | The minimum number of indoor machine connections is greater than or equal to 2. |
| | Working temp. Heating F° | -22°F ~60°F | |
| ODU | Dimension: H*W*D | 73-1/4*70-1/4*32-1/4 | |
| | Refrigerant charge （oz.） | 1040.6 | |
| | Net Weight- *lbs* | 1162.0 | |
| Compressor | Type | Scroll | |
| | Qty | 2 | |
| | Oil Type | FVC68D | |
| | Refrigerant Type | R410A | |
| Connection ratio | Maximum number of indoor units | 39 | |
| | Connection ratio (IDU/ODU capacity) | 50% — 130% | |
| Fan | Type/ Qty | Propeller/2 | |
| | CFM | 16400 | |
| Refrigerant piping | Liquid pipe O.D. I in | 3/4 | |
| | Gas pipe O.D. i in | 1-1/4 | |
| | High Gas pipe O.D. i in | 1-1/4 | |
| Sound | Sound Level dB(A) | 72 | |

## Drawing

UNIT: Inches




| No. | Name Remark | |
|---|---|---|
| 1 | Signal line hole(Ø25) | Using the rubber plug in the unit's attachment for protection |
| 2 | Pipe outlet for 2-pipe system | |
| 3 | Pipe outlet for 3-pipe system | |
| 4 | Power supply hole | According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection |
| 5 | Hoisting hole | |
| 6 | Power supply of signal line hole | |
| 7 | Refrigerant pipe outlet | |
| 8 | Drain hole | |