

VRF ODU Unit – 6T

MVHQ072ME2CA



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

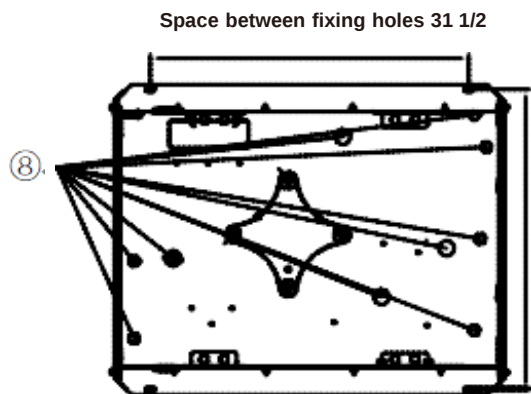
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SPECIFICATIONS

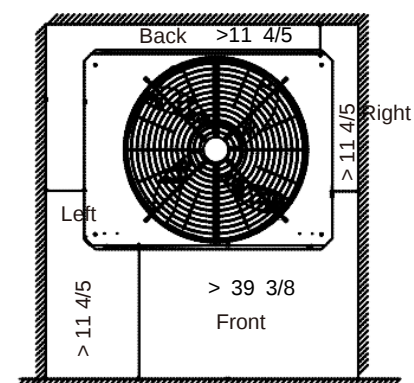
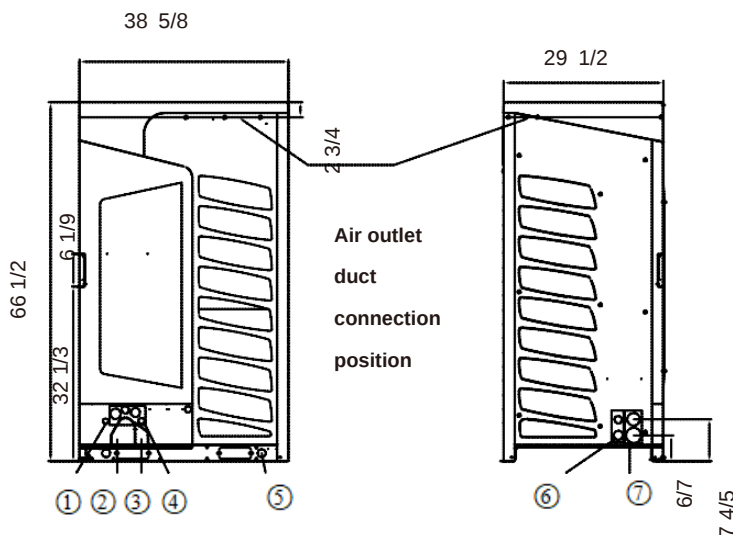
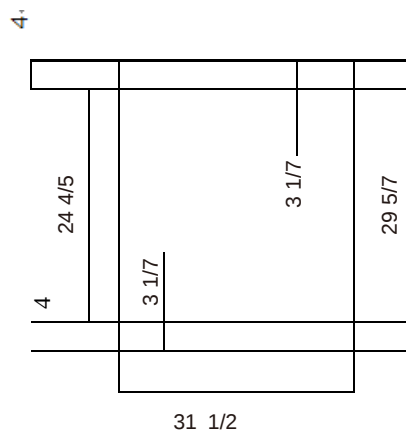
Marketing Model name		MVHQ072ME2CA	Notes Compatible with all Haier MRV indoor units. Structure The unit shall be galvanized steel with a powder coated finish. Hinge access door design for easier installation and maintenance. Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube. The aluminum fins of the heat exchanger shall have a protective coating. Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. Refrigerant System EVI compressors provide advanced low ambient heating performance. Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability. Agency Certified to latest version of AHRI standard 1230. Snow hood accessory HP-MRVS Compatible optional snow hood accessory to protect unit in the worst weather. Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
Nominal Capacity (Btu/h)		72000	
Electrical	Voltage, Cycle, Phase V/Hz/-	208-230/60/3	
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	3.60	
	Rated Heating Capacity@17°F(Btu/h)	53000	
	COP @ 17°F	2.50	
	SCHE	20	
Electrical	MCA (A) / MOP (A)	30/40	
Operation Range	Working temp. Cooling F°+ Snow hood	-4F-122F	
	Working temp. Heating F°	-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



Space between fixing holes 29 5/7



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	

VRF ODU Unit – 8T

MVHQ096ME2CA



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

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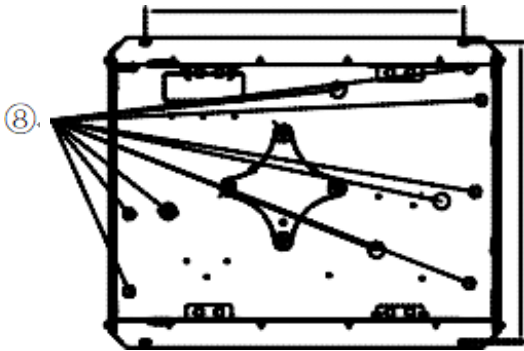
SPECIFICATIONS

Marketing Model name		MVHQ096ME2CA	Notes
Nominal Capacity (Btu/h)		96000	Compatible with all Haier MRV indoor units.
Electrical	Voltage, Cycle, Phase V/Hz/-	208-230/60/3	Structure
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	91000	The unit shall be galvanized steel with a powder coated finish.
	EER @95 °F	11.90	Hinge access door design for easier installation and maintenance
	IEER	23.10	Heat Exchanger
	Rated Heating Capacity @47°F(Btu/h)	103000	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)	72000	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	23	EVI compressors provide advanced low ambient heating performance.
Performance Ducted	Rated Cooling Capacity@95°F (Btu/h)	91000	Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.
	EER @95 °F	12.20	Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.
	IEER	21.80	Automatic oil balancing
	Rated Heating Capacity @47°F(Btu/h)	103000	The oil is balanced automatically internally which simplifies system design and improves reliability.
	COP @ 47°F	3.60	Agency
	Rated Heating Capacity@17°F(Btu/h)	72000	Certified to latest version AHRI standard 1230.
	COP @ 17°F	2.50	Snow hood accessory
	SCHE	21.4	HP-MRV5L
Electrical	MCA (A) / MOP (A)	38/50	Compatible with optional snow hood accessories to protect unit in the worst weather.
Operation Range	Working temp. Cooling F°+ Snow hood	-4F-122F	Recommendation:
	Working temp. Heating F°	-22°F ~60°F	The minimum number of indoor machine connections is greater than or equal to 2.
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	

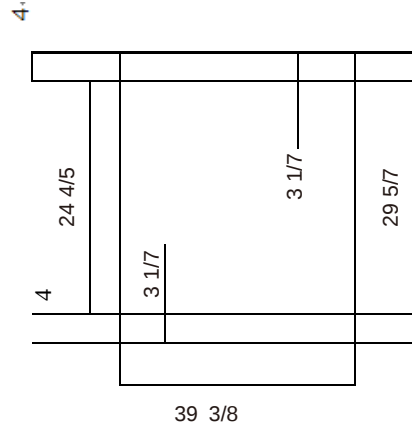
Drawing

UNIT: Inches

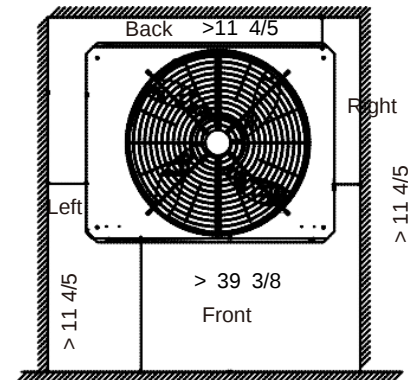
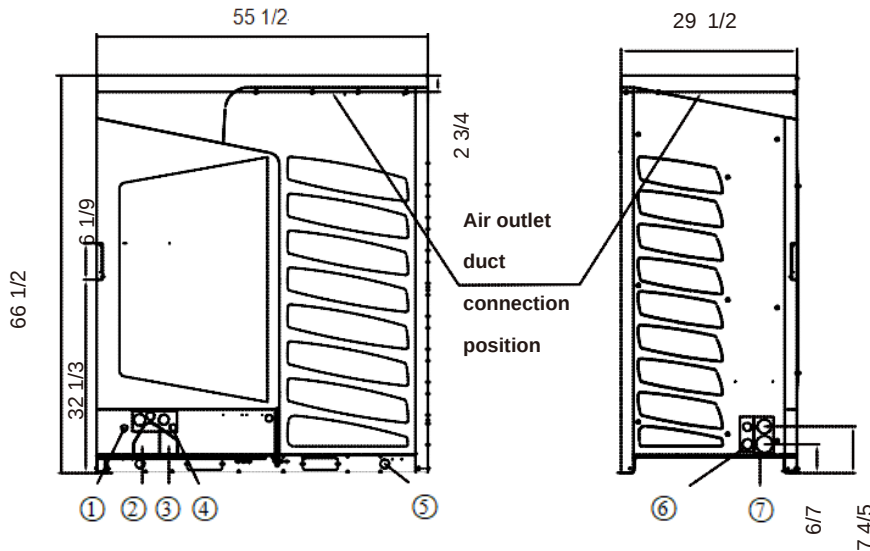
Space between fixing holes $39 \frac{3}{8}$



Space between fixing holes $29 \frac{5}{7}$



$39 \frac{3}{8}$



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	

VRF ODU Unit – 10T

MVHQ120ME2CA



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

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Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

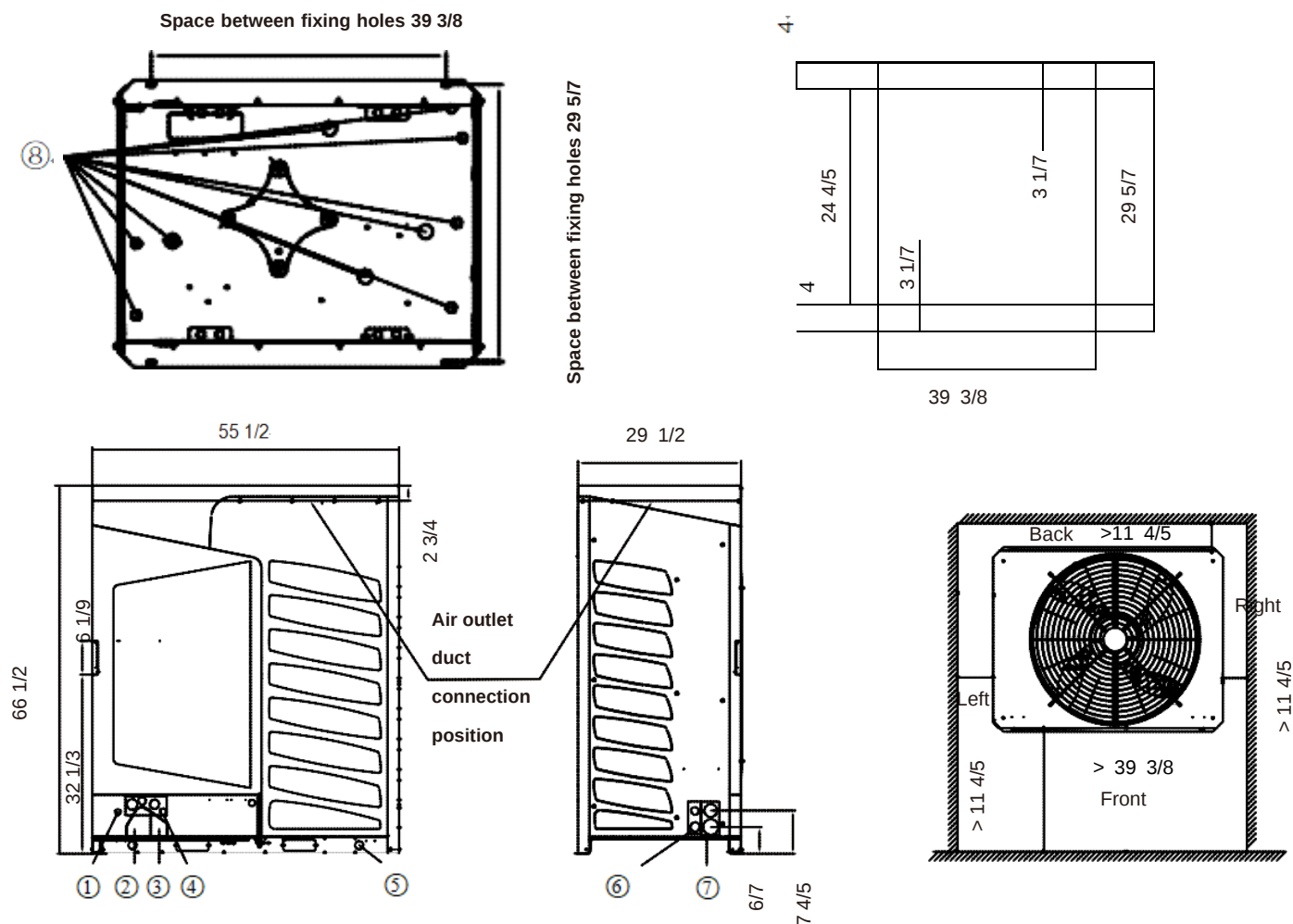
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SPECIFICATIONS

Marketing Model name		MVHQ120ME2CA	Notes Compatible with all Haier MRV indoor units. Structure The unit shall be galvanized steel with a powder coated finish. Hinge access door design for easier installation and maintenance Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube. The aluminum fins of the heat exchanger shall have a protective coating. Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. Refrigerant System EVI compressors provide advanced low ambient heating performance. Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability. Agency Certified to latest version AHRI standard 1230. Snow hood accessory HP-MRV5L Compatible to optional snow hood accessories to protect unit in the worst weather. Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
Nominal Capacity (Btu/h)		120000	
Electrical	Voltage, Cycle, Phase V/Hz/-	208-230/60/3	
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	3.60	
	Rated Heating Capacity@17°F(Btu/h)	84000	
	COP @ 17°F	2.50	
	SCHE	21.4	
Electrical	MCA (A) / MOP (A)	41/60	
Operation Range	Working temp. Cooling F°+ Snow hood	-4F-122F	
	Working temp. Heating F°	-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	

VRF ODU Unit – 12T

MVHQ144ME2CA



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

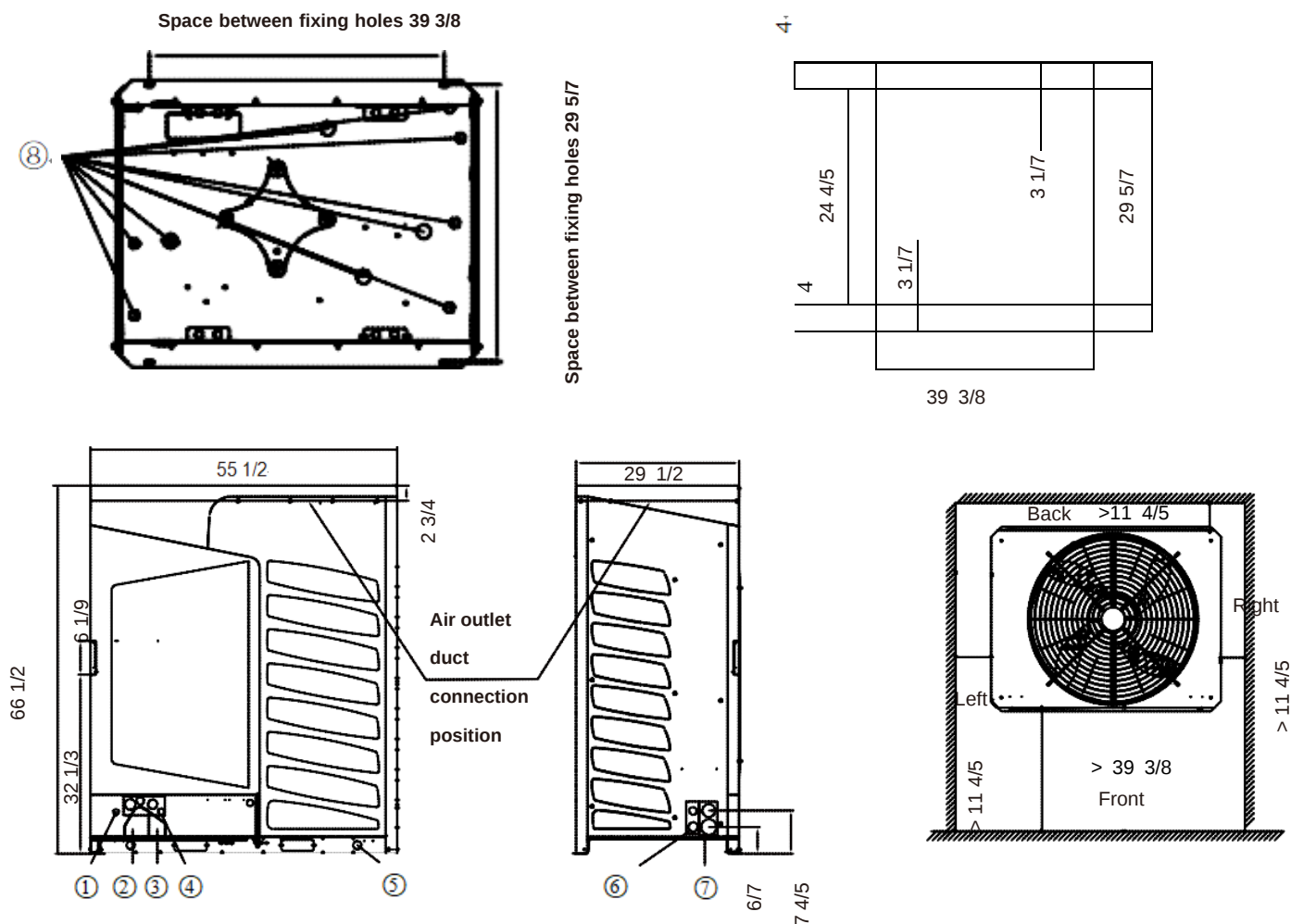
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SPECIFICATIONS

Marketing Model name		MVHQ144ME2CA	Notes Compatible with all Haier MRV indoor units. Structure The unit shall be galvanized steel with a powder coated finish. Hinge access door design for easier installation and maintenance. Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube. The aluminum fins of the heat exchanger shall have a protective coating. Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. Refrigerant System EVI compressors provide advanced low ambient heating performance. Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability. Agency Certified to latest version AHRI standard 1230. Snow hood accessory HP-MRV5L Compatible to optional snow hood accessories to protect unit in worst the weather. Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
Nominal Capacity (Btu/h)		144000	
Electrical	Voltage, Cycle, Phase V/Hz/-	208-230/60/3	
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	3.50	
	Rated Heating Capacity@17°F(Btu/h)	108000	
	COP @ 17°F	2.30	
	SCHE	20.6	
Electrical	MCA (A) / MOP (A)	56/80	
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	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	

VRF ODU Unit – 14T

MVHQ168ME2CA



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

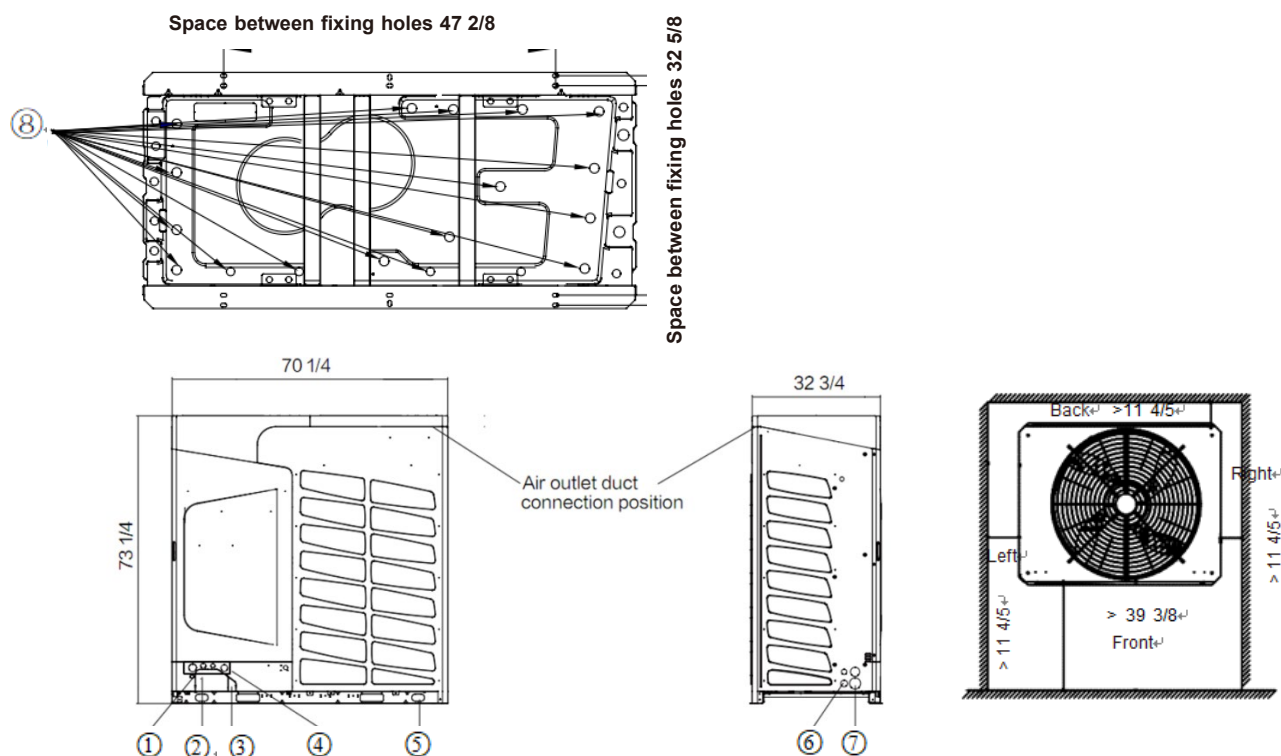
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SPECIFICATIONS

Marketing Model name		MVHQ168ME2CA	Notes
Nominal Capacity (Btu/h)		168000	Compatible with all Haier MRV indoor units.
Electrical	Voltage, Cycle, Phase V/Hz/-	208-230/60/3	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 installation and maintenance
	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)	59/90	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	

VRF ODU Unit – 16T

MVHQ192ME2CA



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

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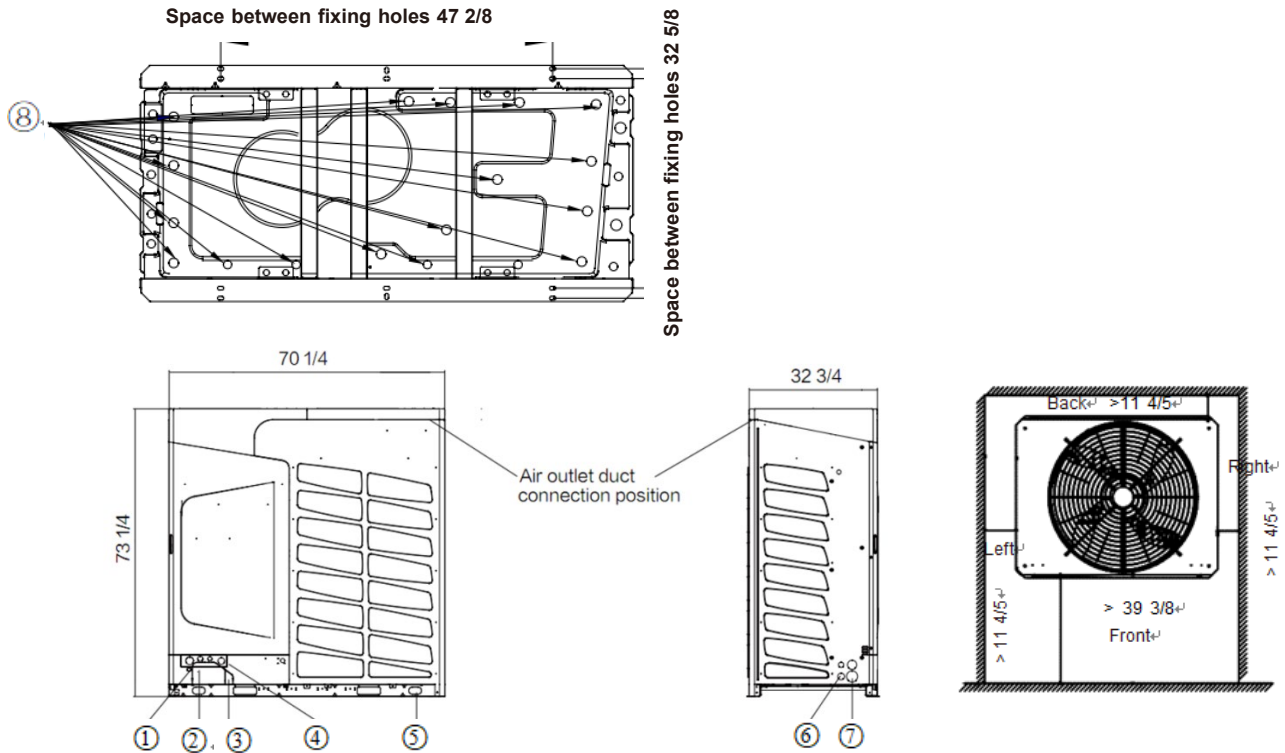
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SPECIFICATIONS

Marketing Model name		MVHQ192ME2CA	Notes
Nominal Capacity (Btu/h)		192000	Compatible with all Haier MRV indoor units.
Electrical	Voltage, Cycle, Phase V/Hz/-	208-230/60/3	Structure
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	184000	The unit shall be galvanized steel with a powder coated finish.
	EER @95 °F	11.20	Hinge access door design for easier installation and maintenance.
	IEER	22.20	Heat Exchanger
	Rated Heating Capacity @47°F(Btu/h)	206000	The heat exchanger shall be mechanically bonded fin to copper tube.
	COP @ 47°F	3.50	The aluminum fins of the heat exchanger shall have a protective coating.
	Rated Heating Capacity@17°F(Btu/h)	138000	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	26.7	EVI compressors provide advanced low ambient heating performance.
Performance Ducted	Rated Cooling Capacity@95°F (Btu/h)	184000	Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.
	EER @95 °F	11.30	Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.
	IEER	21.10	Automatic oil balancing
	Rated Heating Capacity @47°F(Btu/h)	206000	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)	138000	Certified to latest version AHRI standard 1230.
	COP @ 17°F	2.40	Snow hood accessory
	SCHE	24.4	Compatible to optional snow hood accessories to protect unit in the worst weather.
Electrical	MCA (A) / MOP (A)	71/110	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	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	

VRF ODU Unit – 18T

MVHQ216ME2CA



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

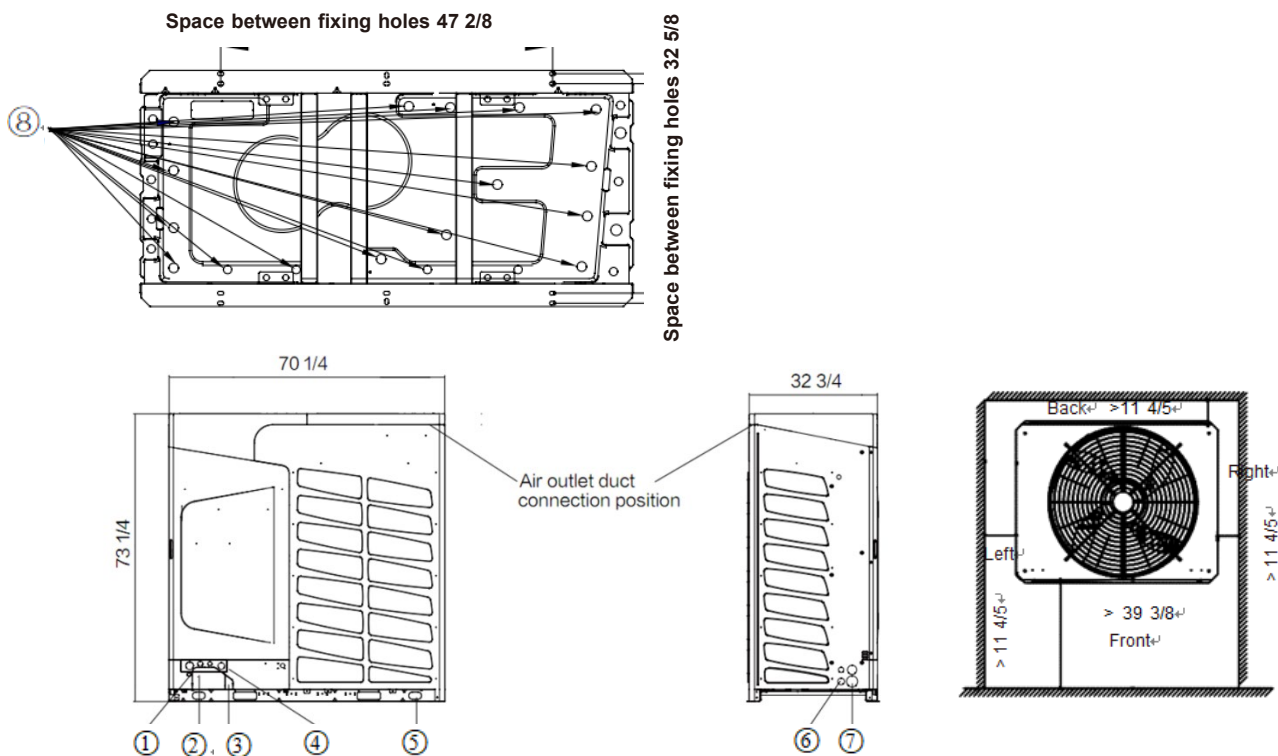
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SPECIFICATIONS

Marketing Model name		MVHQ216ME2CA	Notes
Nominal Capacity (Btu/h)		216000	Compatible with all Haier MRV indoor units.
Electrical	Voltage, Cycle, Phase V/Hz/-	208-230/60/3	Structure
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	206000	The unit shall be galvanized steel with a powder coated finish.
	EER @95 °F	10.90	Hinge access door design for easier installation and maintenance
	IEER	22.00	Heat Exchanger
	Rated Heating Capacity @47°F(Btu/h)	232000	The heat exchanger shall be mechanically bonded fin to copper tube.
	COP @ 47°F	3.50	The aluminum fins of the heat exchanger shall have a protective coating.
	Rated Heating Capacity@17°F(Btu/h)	156000	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	25.6	EVI compressors provide advanced low ambient heating performance.
Performance Ducted	Rated Cooling Capacity@95°F (Btu/h)	206000	Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.
	EER @95 °F	11.30	Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.
	IEER	20.80	Automatic oil balancing
	Rated Heating Capacity @47°F(Btu/h)	232000	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)	156000	Certified to latest version AHRI standard 1230.
	COP @ 17°F	2.40	Snow hood accessory
	SCHE	24.2	Compatible to optional snow hood accessories to protect unit in the worst weather.
Electrical	MCA (A) / MOP (A)	83/125	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	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	

VRF ODU Unit – 20T

MVHQ240ME2CA



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

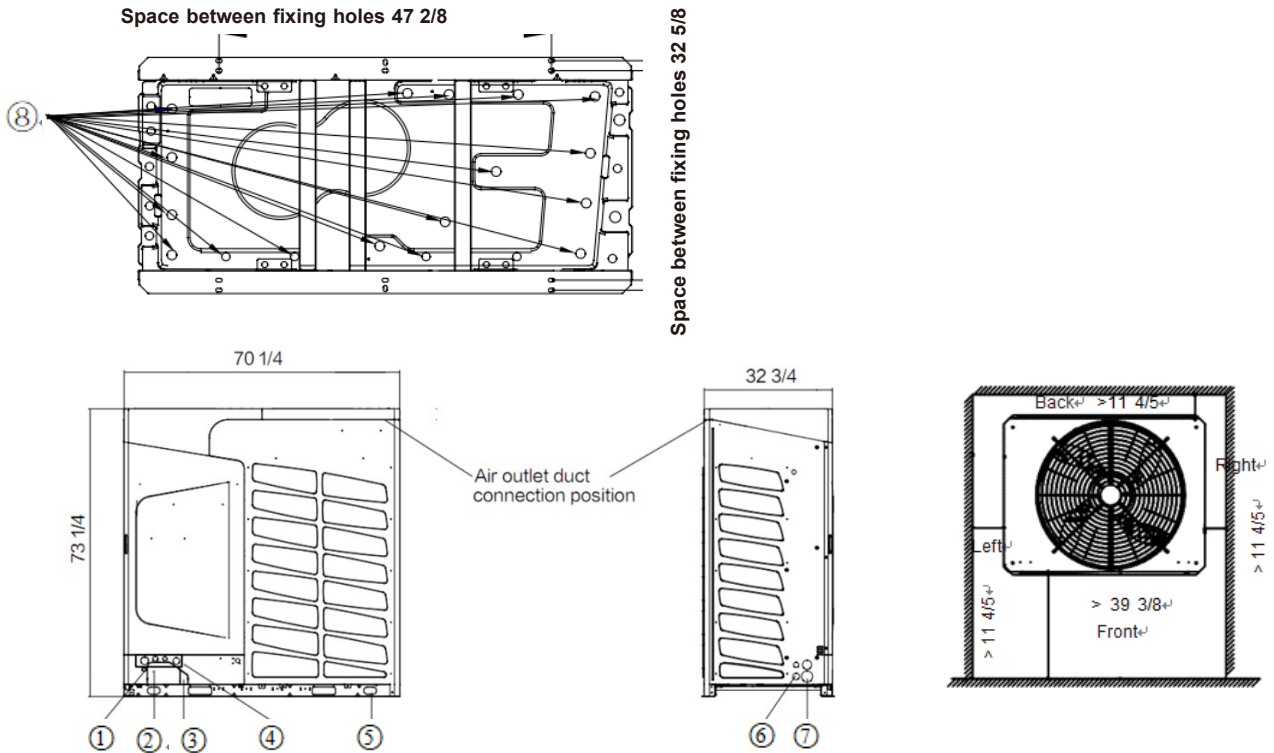
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SPECIFICATIONS

Marketing Model name		MVHQ240ME2CA	Notes
Nominal Capacity (Btu/h)		240000	Compatible with all Haier MRV indoor units.
Electrical	Voltage, Cycle, Phase V/Hz/-	208-230/60/3	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)	87/135	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	

VRF ODU Unit – 22T

MVHQ264ME2CA
(MVHQ144ME2CA+MVHQ120ME2CA)



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

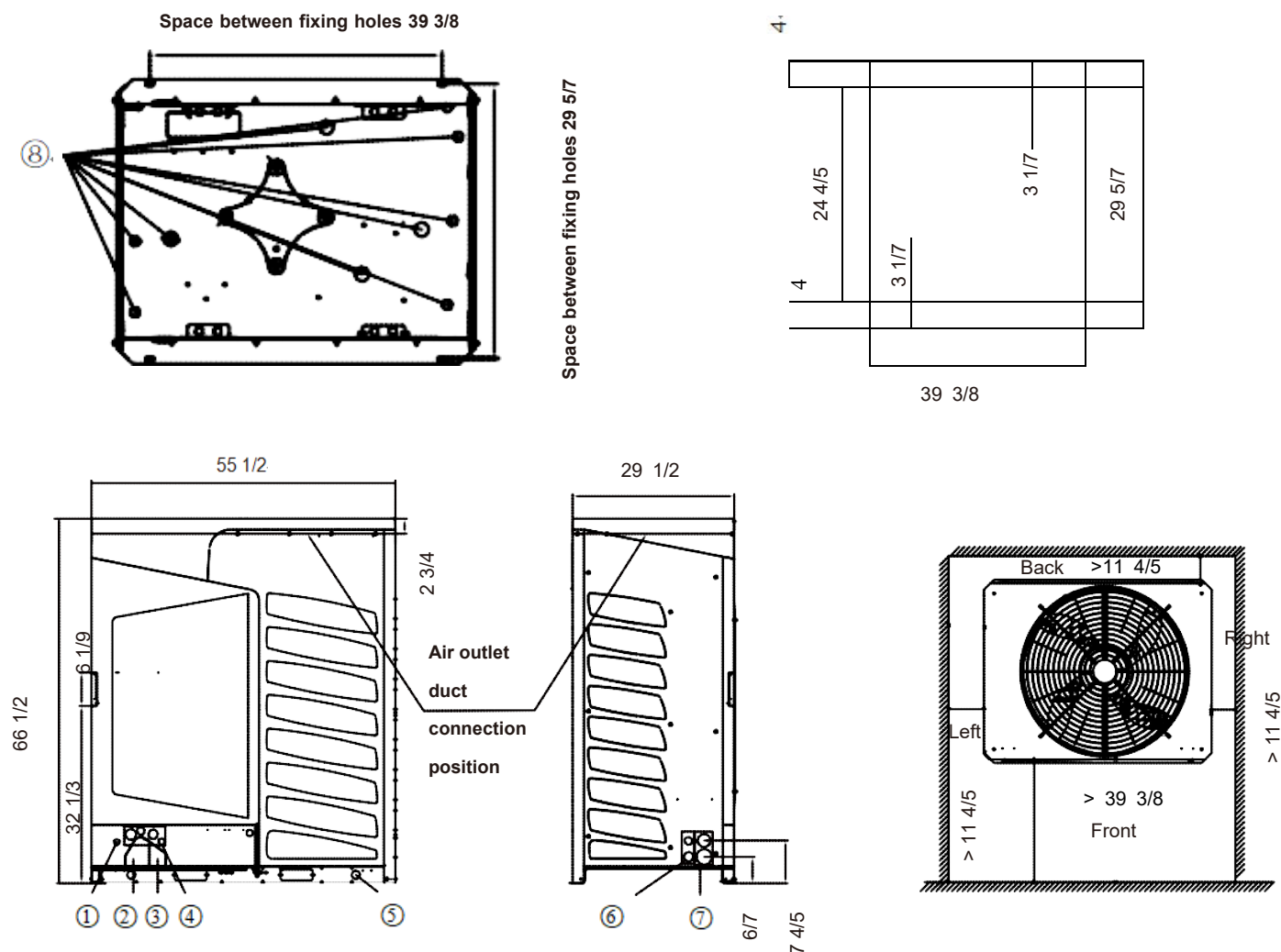
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SPECIFICATIONS

Marketing Model name		MVHQ264ME2CA	Notes
Nominal Capacity (Btu/h)		264000	Compatible with all Haier MRV indoor units. Structure The unit shall be galvanized steel with a powder coated finish. Hinge access door design for easier installation and maintenance. Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube. The aluminum fins of the heat exchanger shall have a protective coating. Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. Refrigerant System EVI compressors provide advanced low ambient heating performance. Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability. Agency Certified to latest version AHRI standard 1230. Snow hood accessory Compatible with optional snow hood accessories to protect unit in worst weather. Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
Electrical	Voltage, Cycle, Phase V/Hz/-	230/60/3	
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	253000	
	EER @95 °F	10.10	
	IEER	18.80	
	Rated Heating Capacity @47°F(Btu/h)	282000	
	COP @ 47°F	3.30	
	Rated Heating Capacity@17°F(Btu/h)	192000	
	COP @ 17°F	2.30	
	SCHE	25.2	
Performance Ducted	Rated Cooling Capacity@95°F (Btu/h)	253000	
	EER @95 °F	9.80	
	IEER	19.40	
	Rated Heating Capacity @47°F(Btu/h)	282000	
	COP @ 47°F	3.30	
	Rated Heating Capacity@17°F(Btu/h)	192000	
	COP @ 17°F	2.30	
	SCHE	23.3	
Electrical	MCA (A) / MOP (A)	41+56/50+80	
Operation Range	Working temp. Cooling F°+ Snow hood	-4F-122F	
	Working temp. Heating F°	-22F~60F	
ODU	Dimension: H*W*D	66-1/2 *55-1/2*29-1/2 +66-1/2*55-1/2*29-1/2	
	Refrigerant charge (oz.)	754.8+783.1	
	Net Weight- lbs	756+895	
Compressor	Type	Scroll	
	Qty	1+2	
	Oil Type	FVC68D	
	Refrigerant Type	R410A	
Connection ratio	Maximum number of indoor units	45	
	Connection ratio (IDU/ODU capacity)	50% — 130%	
Fan	Type/ Qty	Propeller/4	
	CFM	9942+9942	
Refrigerant piping	Liquid pipe O.D. I in	1/2+1/2	
	Gas pipe O.D. i in	1 1/8+1 1/8	
	High Gas pipe O.D. i in	1 1/8+1 1/8	
Sound	Sound Level dB(A)	65	

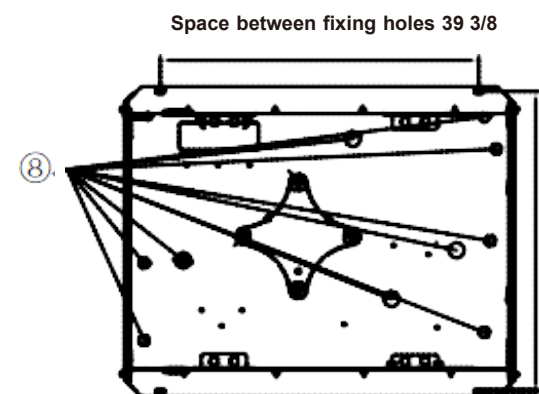
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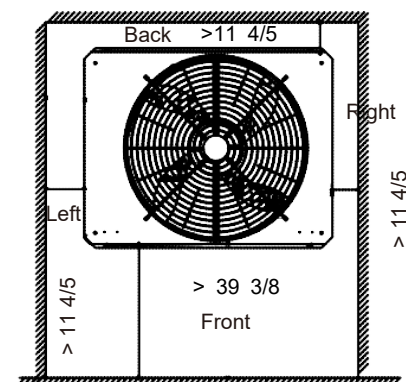
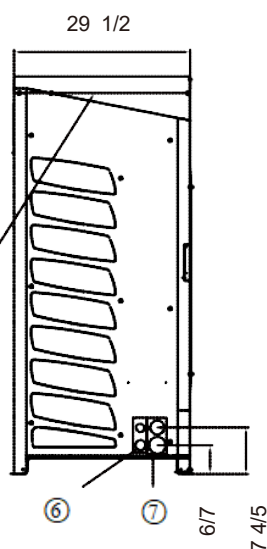
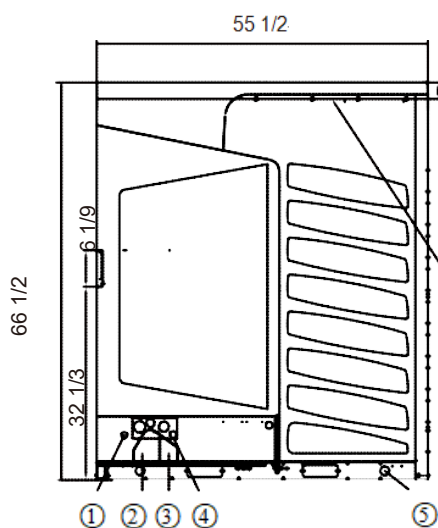
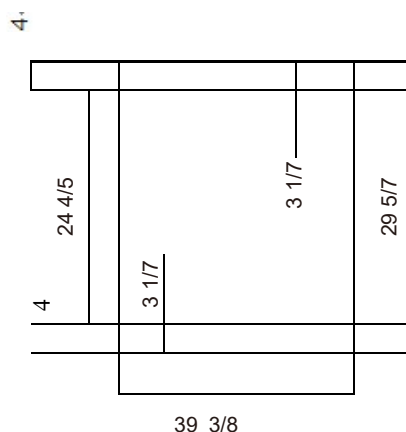


No.	Name Remark	
1	Signal line hole(Ø1)	Using the rubber plug in the unit's attachment for protection
2	Pipe outlet for 2-pipe system	
3	Pipe outlet for 3-pipe system	
4	Power supply hole	According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's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

UNIT: Inches



Space between fixing holes 29 5/7



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	

VRF ODU Unit – 24T

MVHQ288ME2CA
(MVHQ144ME2CA+MVHQ144ME2CA)



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

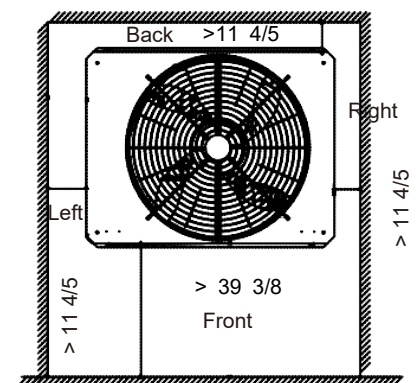
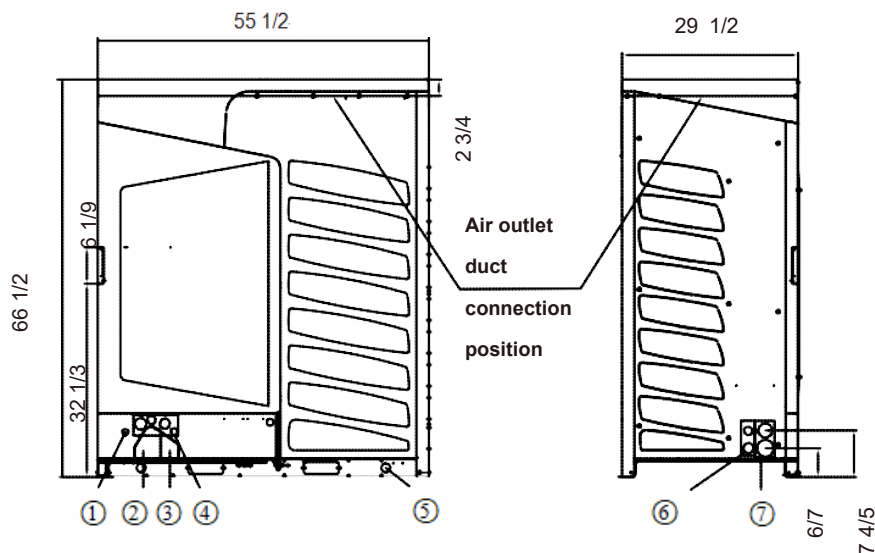
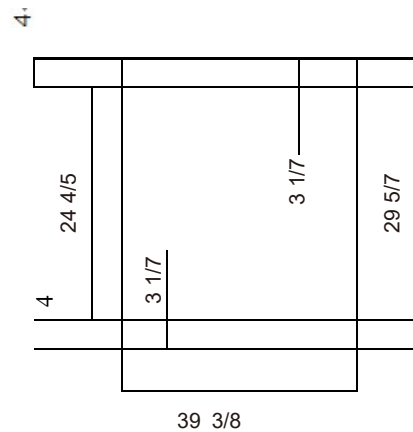
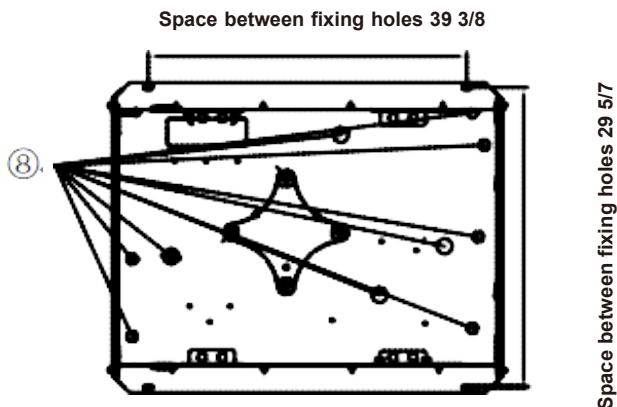
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SPECIFICATIONS

Marketing Model name		MVHQ288ME4CA	Notes
Nominal Capacity (Btu/h)		288,000	Compatible with all Haier MRV indoor units. Structure The unit shall be galvanized steel with a powder coated finish. Hinge access door design for easier installation and maintenance. Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube. The aluminum fins of the heat exchanger shall have a protective coating. Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. Refrigerant System EVI compressors provide advanced low ambient heating performance. Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability. Agency Certified to latest version AHRI standard 1230. Snow hood accessory Compatible with optional snow hood accessories to protect unit in worst weather. Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
Electrical	Voltage, Cycle, Phase V/Hz/-	230/60/3	
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	276000	
	EER @95 °F	9.80	
	IEER	18.40	
	Rated Heating Capacity @47°F(Btu/h)	308000	
	COP @ 47°F	3.20	
	Rated Heating Capacity@17°F(Btu/h)	216000	
	COP @ 17°F	2.20	
	SCHE	24.8	
Performance Ducted	Rated Cooling Capacity@95°F (Btu/h)	276000	
	EER @95 °F	9.70	
	IEER	18.50	
	Rated Heating Capacity @47°F(Btu/h)	308000	
	COP @ 47°F	3.20	
	Rated Heating Capacity@17°F(Btu/h)	216000	
	COP @ 17°F	2.30	
	SCHE	23.3	
Electrical	MCA (A) / MOP (A)	56+56/80+80	
Operation Range	Working temp. Cooling F°+ Snow hood	-4F-122F	
	Working temp. Heating F°	-22F~60F	
ODU	Dimension: H*W*D	66-1/2*55-1/2*29-1/2+ 66-1/2*55-1/2*29-1/2	
	Refrigerant charge (oz.)	783.1+783.1	
	Net Weight- lbs	895+895	
Compressor	Type	Scroll	
	Qty	2+2	
	Oil Type	FVC68D	
	Refrigerant Type	R410A	
Connection ratio	Maximum number of indoor units	48	
	Connection ratio (IDU/ODU capacity)	50% — 130%	
Fan	Type/ Qty	Propeller/4	
	CFM	9942+9942	
Refrigerant piping	Liquid pipe O.D. I in	1/2+1/2	
	Gas pipe O.D. i in	1 1/8+1 1/8	
	High Gas pipe O.D. i in	1 1/8+1 1/8	
Sound	Sound Level dB(A)	65	

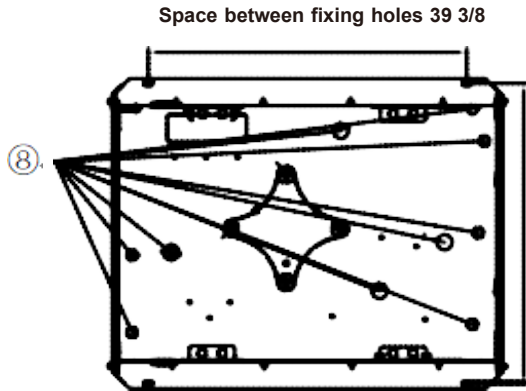
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UNIT: Inches

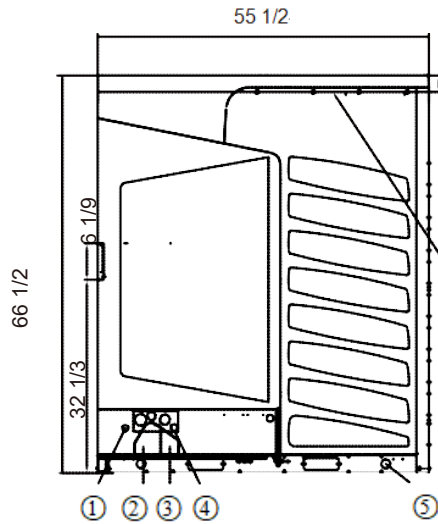
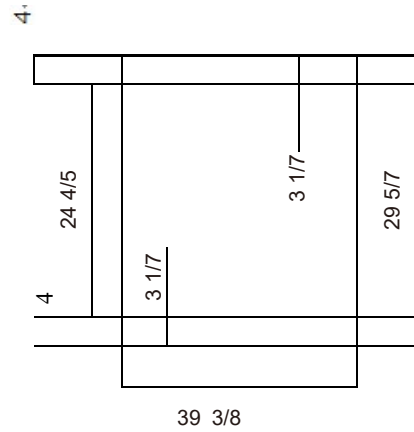


No.	Name Remark	
1	Signal line hole(Ø1)	Using the rubber plug in the unit's attachment for protection
2	Pipe outlet for 2-pipe system	
3	Pipe outlet for 3-pipe system	
4	Power supply hole	According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's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

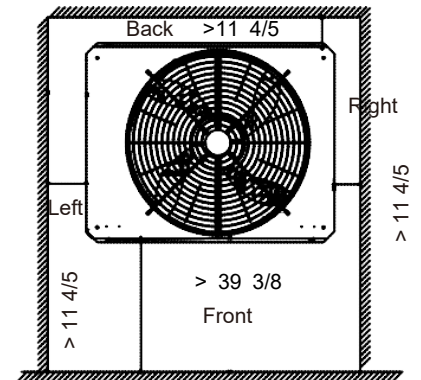
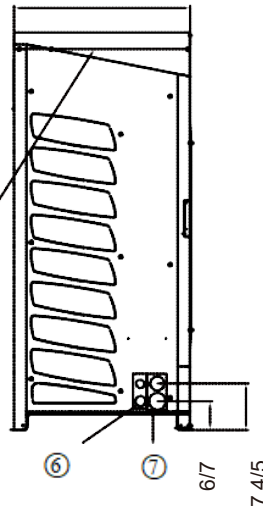
UNIT: Inches



Space between fixing holes 29 5/7



29 1/2



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	

VRF ODU Unit – 26T

MVHQ312ME2CA
(MVHQ144ME2CA+ MVHQ168ME2CA)



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

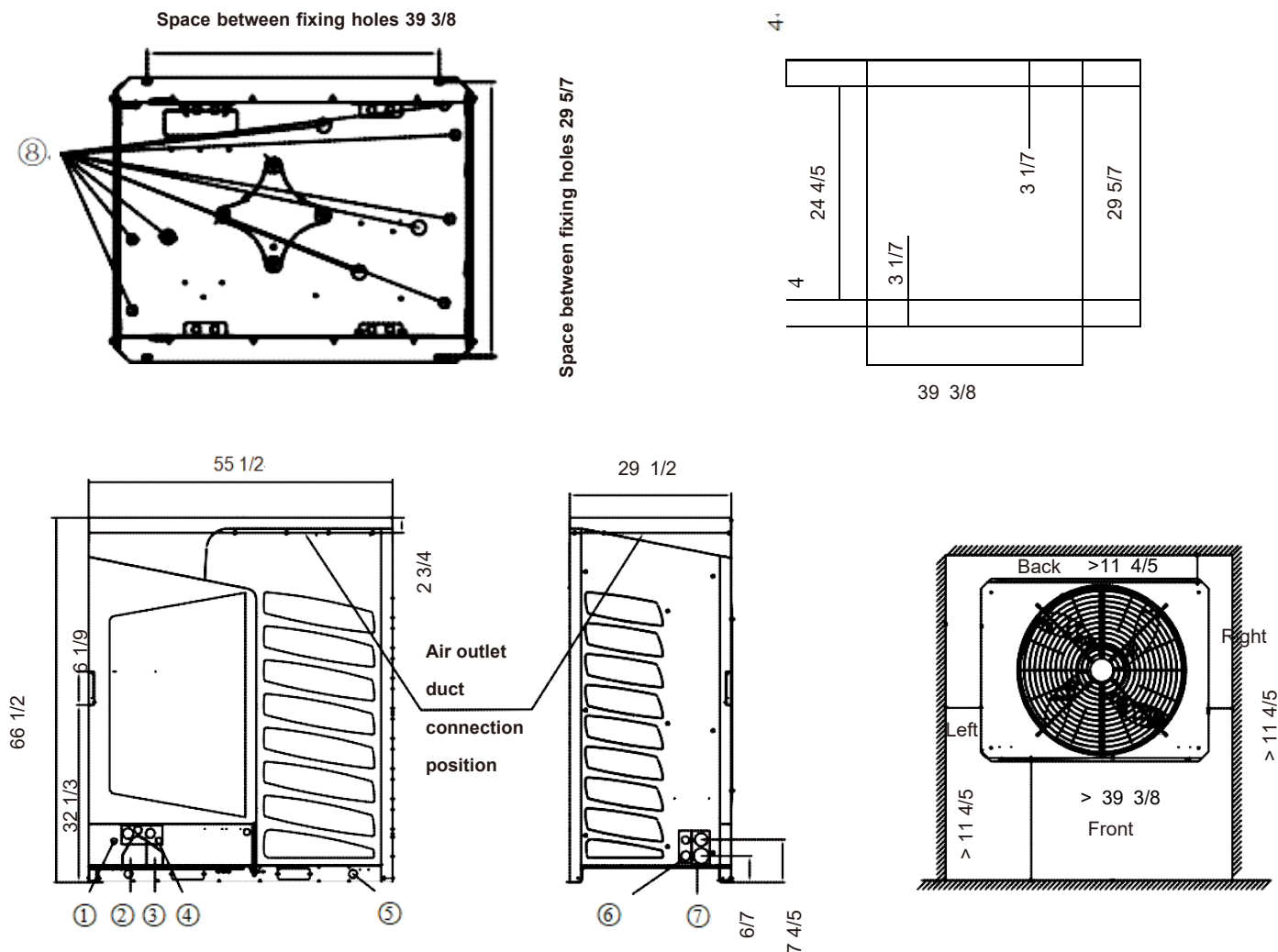
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SPECIFICATIONS

Marketing Model name		MVHQ312ME2CA	Notes
Nominal Capacity (Btu/h)		312000	Compatible with all Haier MRV indoor units. Structure The unit shall be galvanized steel with a powder coated finish. Hinge access door design for easier installation and maintenance. Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube. The aluminum fins of the heat exchanger shall have a protective coating. Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. Refrigerant System EVI compressors provide advanced low ambient heating performance. Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability. Agency Certified to latest version AHRI standard 1230. Snow hood accessory Compatible with optional snow hood accessories to protect unit in worst weather. Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
Electrical	Voltage, Cycle, Phase V/Hz/-	230/60/3	
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	299000	
	EER @95 °F	9.90	
	IEER	18.50	
	Rated Heating Capacity @47°F(Btu/h)	334000	
	COP @ 47°F	3.20	
	Rated Heating Capacity@17°F(Btu/h)	228000	
	COP @ 17°F	2.30	
	SCHE	24	
Performance Ducted	Rated Cooling Capacity@95°F (Btu/h)	299000	
	EER @95 °F	9.70	
	IEER	18.20	
	Rated Heating Capacity @47°F(Btu/h)	334000	
	COP @ 47°F	3.20	
	Rated Heating Capacity@17°F(Btu/h)	228000	
	COP @ 17°F	2.30	
	SCHE	22.9	
Electrical	MCA (A) / MOP (A)	56+59/80+90	
Operation Range	Working temp. Cooling F°+ Snow hood	-4F-122F	
	Working temp. Heating F°	-22F~60F	
ODU	Dimension: H*W*D	66-1/2*55-1/2*29-1/2+73-1/4*70-1/4*32-1/4	
	Refrigerant charge (oz.)	783.1+1040.6	
	Net Weight- lbs	895+1162.0	
Compressor	Type	Scroll	
	Qty	2+2	
	Oil Type	FVC68D	
	Refrigerant Type	R410A	
Connection ratio	Maximum number of indoor units	57	
	Connection ratio (IDU/ODU capacity)	50% — 130%	
Fan	Type/ Qty	Propeller/4	
	CFM	9942+16400	
Refrigerant piping	Liquid pipe O.D. I in	1/2+5/8	
	Gas pipe O.D. i in	1 1/8+1-1/8	
	High Gas pipe O.D. i in	1 1/8+1-1/8	
Sound	Sound Level dB(A)	67	

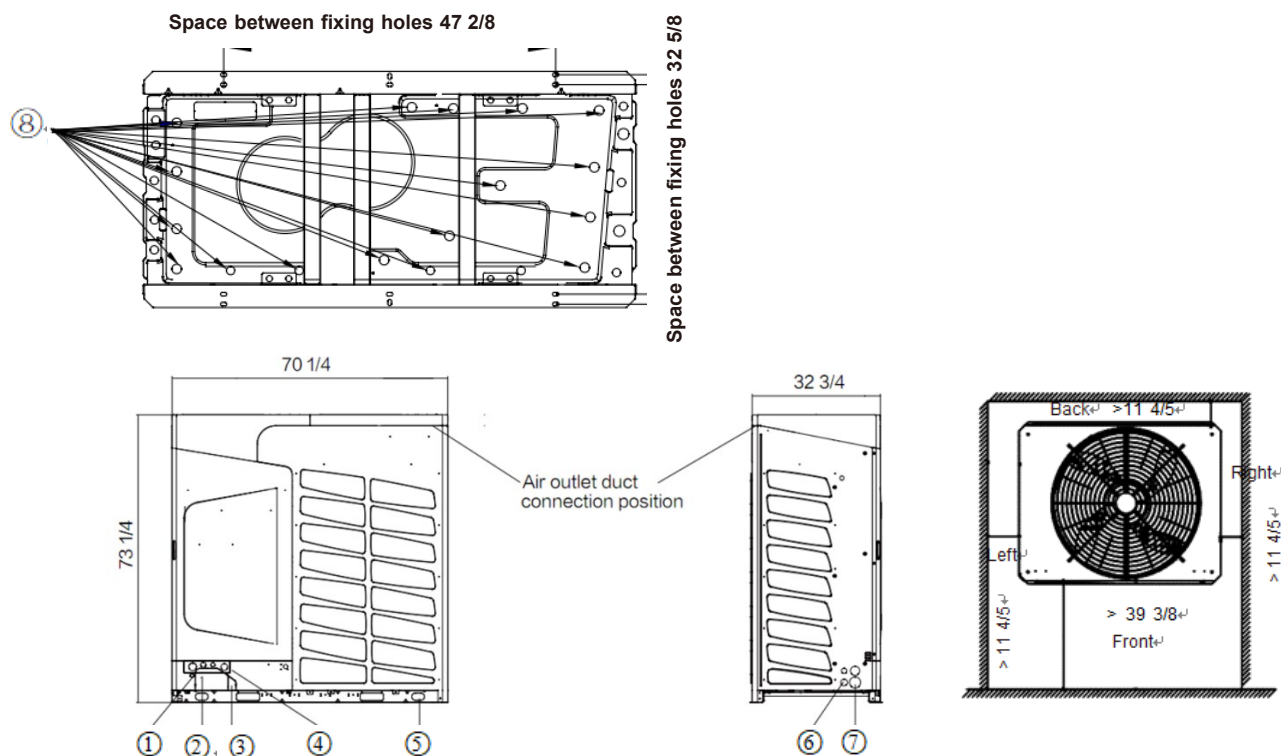
Drawing

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	

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	

VRF ODU Unit – 28T

MVHQ336ME2CA
(MVHQ144ME2CA+ MVHQ192ME2CA)



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

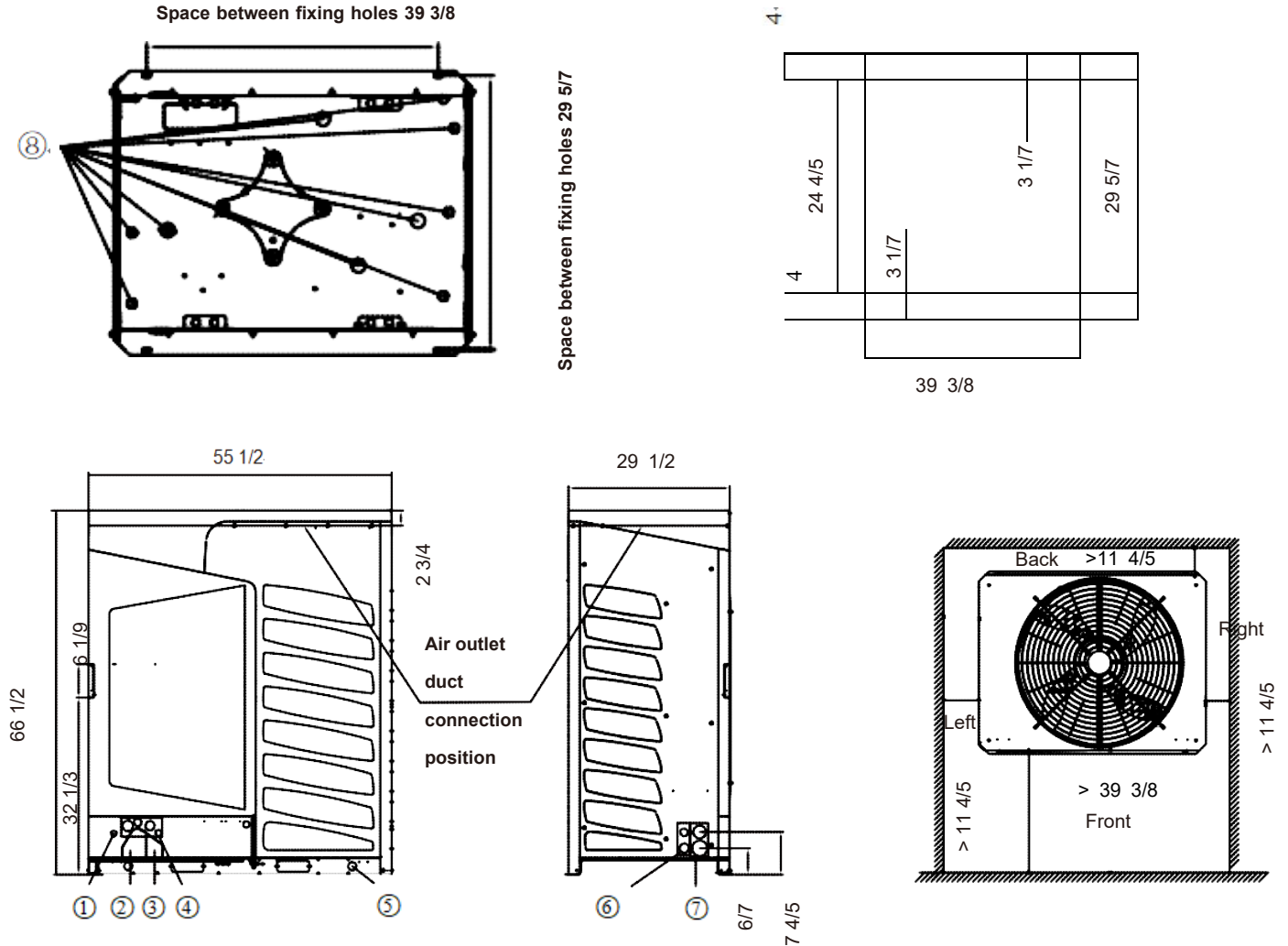
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SPECIFICATIONS

Marketing Model name		MVHQ336ME2CA	Notes
Nominal Capacity (Btu/h)		336000	Compatible with all Haier MRV indoor units. Structure The unit shall be galvanized steel with a powder coated finish. Hinge access door design for easier installation and maintenance. Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube. The aluminum fins of the heat exchanger shall have a protective coating. Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. Refrigerant System EVI compressors provide advanced low ambient heating performance. Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability. Agency Certified to latest version AHRI standard 1230. Snow hood accessory Compatible with optional snow hood accessories to protect unit in worst weather. Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
Electrical	Voltage, Cycle, Phase V/Hz/-	230/60/3	
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	322000	
	EER @95 °F	9.70	
	IEER	18.10	
	Rated Heating Capacity @47°F(Btu/h)	360000	
	COP @ 47°F	3.10	
	Rated Heating Capacity@17°F(Btu/h)	240000	
	COP @ 17°F	2.20	
	SCHE	22.3	
Performance Ducted	Rated Cooling Capacity@95°F (Btu/h)	322000	
	EER @95 °F	9.60	
	IEER	18.00	
	Rated Heating Capacity @47°F(Btu/h)	360000	
	COP @ 47°F	3.10	
	Rated Heating Capacity@17°F(Btu/h)	240000	
	COP @ 17°F	2.20	
	SCHE	22.4	
Electrical	MCA (A) / MOP (A)	56+71/80+110	
Operation Range	Working temp. Cooling F°+ Snow hood	-4F-122F	
	Working temp. Heating F°	-22F~60F	
ODU	Dimension: H*W*D	66-1/2*55-1/2*29-1/2+73-1/4*70-1/4*32-1/4	
	Refrigerant charge (oz.)	783.1+1040.6	
	Net Weight- lbs	895+1162.0	
Compressor	Type	Scroll	
	Qty	2+2	
	Oil Type	FVC68D	
	Refrigerant Type	R410A	
Connection ratio	Maximum number of indoor units	60	
	Connection ratio (IDU/ODU capacity)	50% — 130%	
Fan	Type/ Qty	Propeller/4	
	CFM	9942+16400	
Refrigerant piping	Liquid pipe O.D. I in	1/2+5/8	
	Gas pipe O.D. i in	1 1/8+1-1/8	
	High Gas pipe O.D. i in	1 1/8+1 1/8	
Sound	Sound Level dB(A)	72	

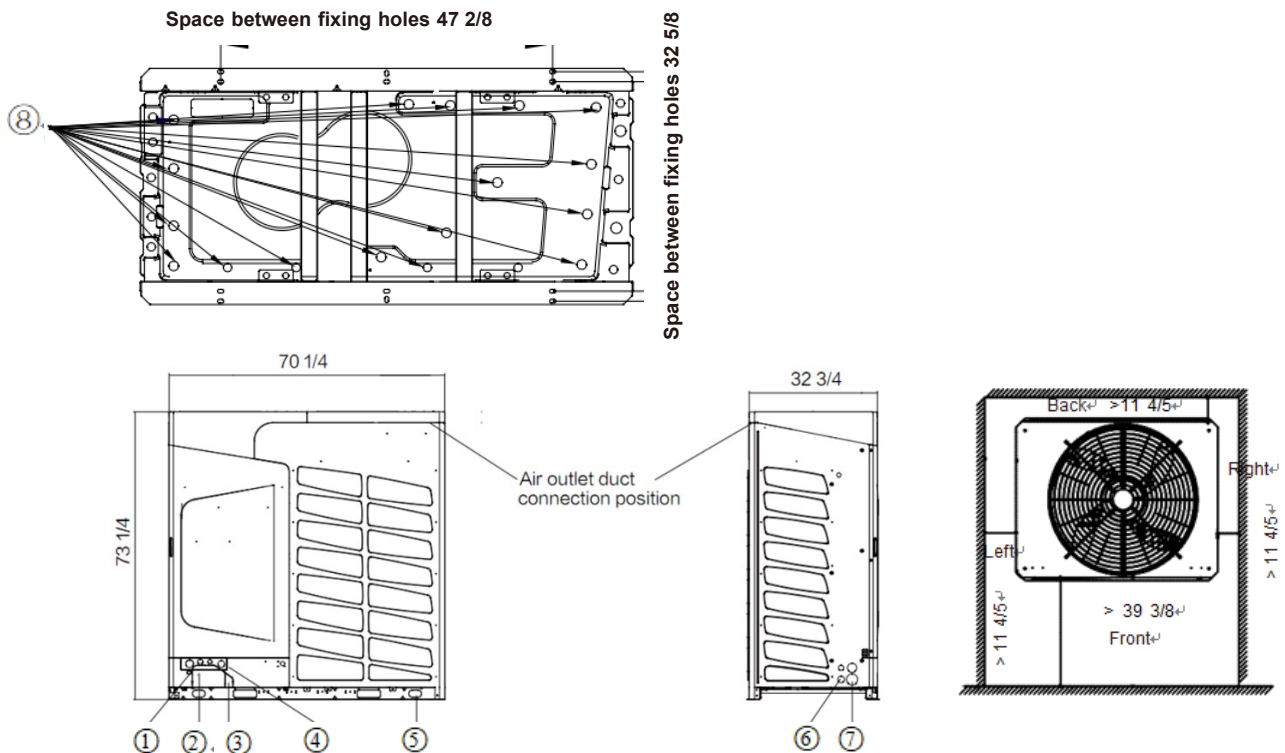
Drawing

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	

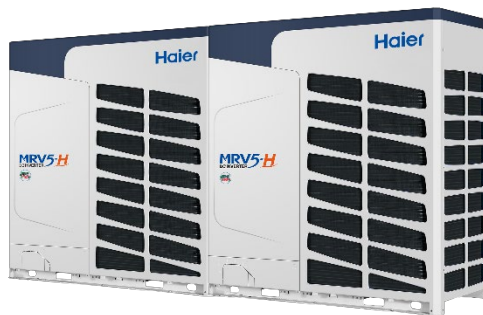
UNIT: Inches



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	

VRF ODU Unit – 30T

MVHQ360ME2CA
(MVHQ168ME2CA+ MVHQ192ME2CA)



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

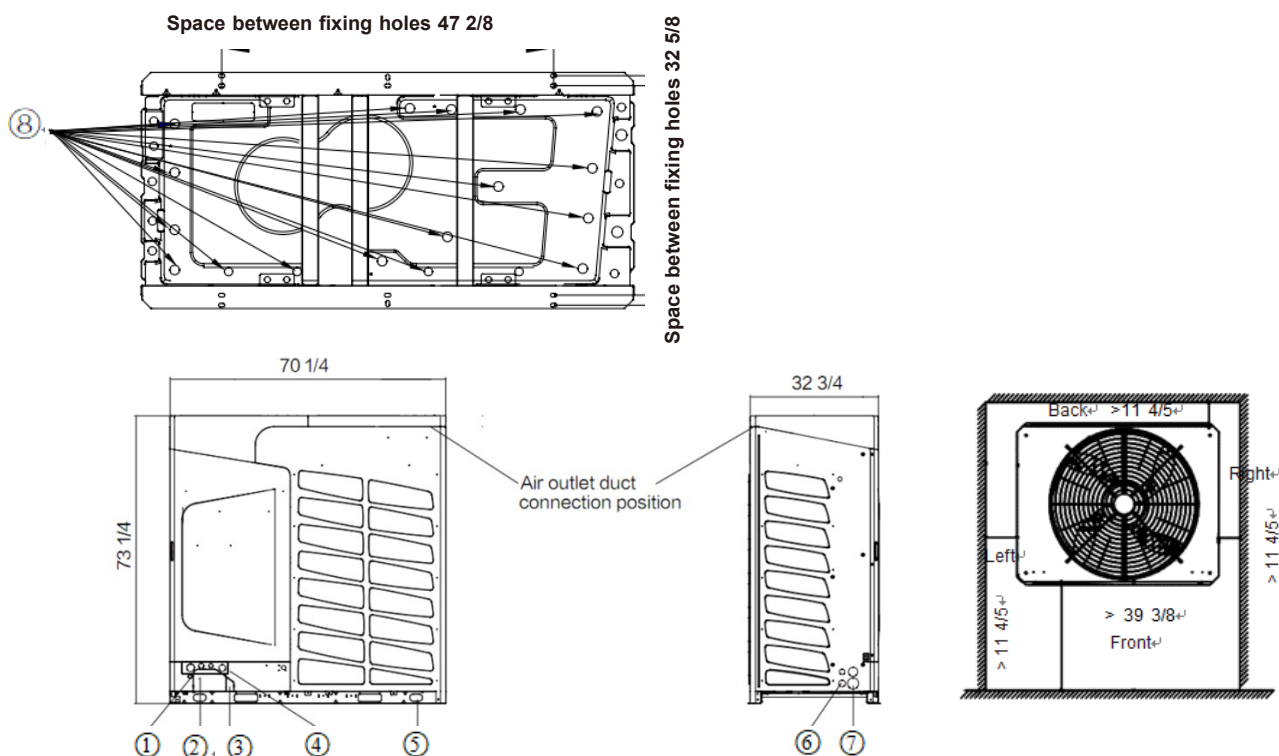
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SPECIFICATIONS

Marketing Model name		MVHQ360ME2CA	Notes
Nominal Capacity (Btu/h)		360000	Compatible with all Haier MRV indoor units.
Electrical	Voltage, Cycle, Phase V/Hz/-	230/60/3	
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	345000	Structure The unit shall be galvanized steel with a powder coated finish.
	EER @95 °F	9.90	
	IEER	18.50	Hinge access door design for easier installation and maintenance.
	Rated Heating Capacity @47°F(Btu/h)	372000	
	COP @ 47°F	3.20	Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube.
	Rated Heating Capacity@17°F(Btu/h)	252000	
	COP @ 17°F	2.20	The aluminum fins of the heat exchanger shall have a protective coating.
Performance Ducted	SCHE	22.2	
	Rated Cooling Capacity@95°F (Btu/h)	345000	Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours.
	EER @95 °F	9.70	
	IEER	18.20	Refrigerant System EVI compressors provide advanced low ambient heating performance.
	Rated Heating Capacity @47°F(Btu/h)	372000	
	COP @ 47°F	3.20	Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.
	Rated Heating Capacity@17°F(Btu/h)	252000	
Electrical	COP @ 17°F	2.30	Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.
	SCHE	22.1	
	MCA (A) / MOP (A)	59+71/90+110	Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability.
Operation Range	Working temp. Cooling F° + Snow hood	-4F-122F	
	Working temp. Heating F°	-22F~60F	Agency Certified to latest version AHRI standard 1230.
ODU	Dimension: H*W*D	73-1/4*70-1/4*32-3/4+73-1/4*70-1/4*32-3/4	
	Refrigerant charge (oz.)	1040.6+1040.6	Snow hood accessory Compatible with optional snow hood accessories to protect unit in worst weather.
	Net Weight- lbs	1162.0+1162.0	
Compressor	Type	Scroll	Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
	Qty	2+2	
	Oil Type	FVC68D	
	Refrigerant Type	R410A	
Connection ratio	Maximum number of indoor units	64	
	Connection ratio (IDU/ODU capacity)	50% — 130%	
Fan	Type/ Qty	Propeller/4	
	CFM	16400 +16400	
Refrigerant piping	Liquid pipe O.D. I in	5/8+5/8	
	Gas pipe O.D. i in	1-1/8+1-1/8	
	High Gas pipe O.D. i in	1-1/8+1-1/8	
Sound	Sound Level dB(A)	72	

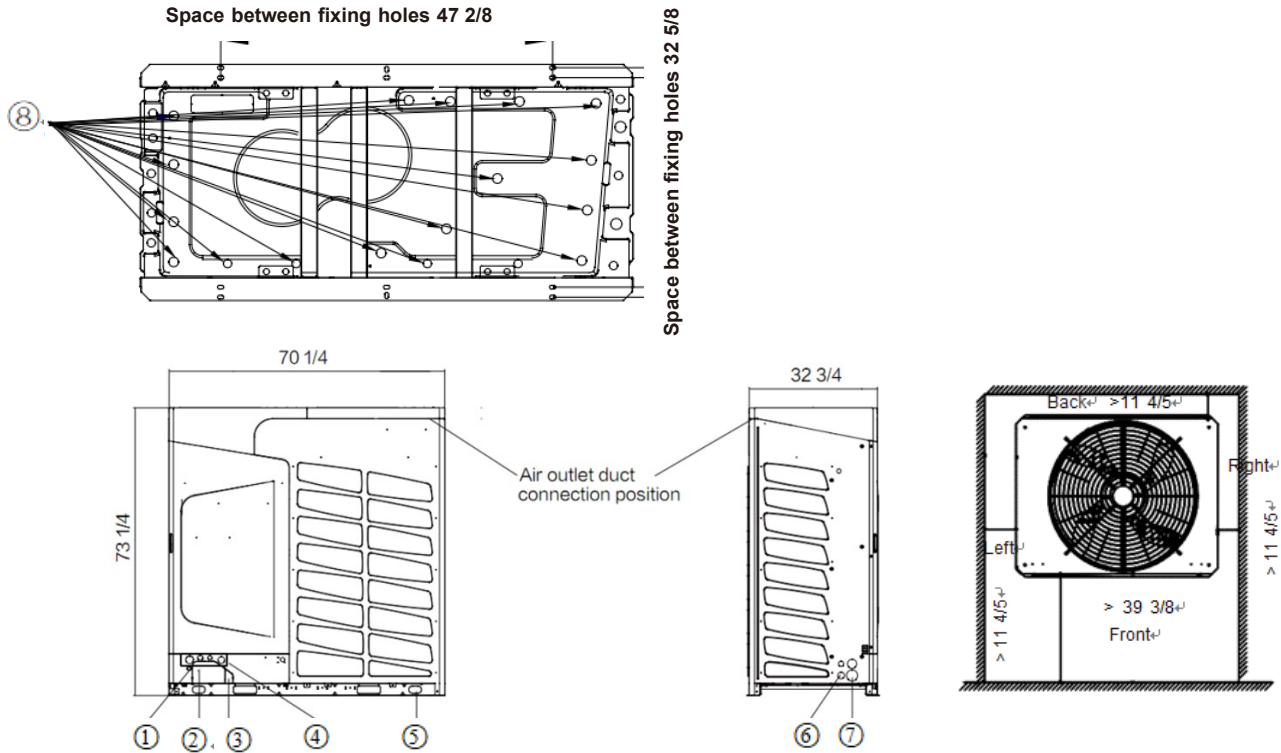
Drawing

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	

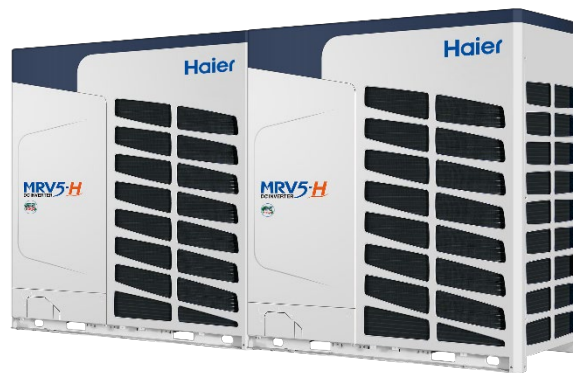
UNIT: Inches



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	

VRF ODU Unit – 32T

MVHQ384ME2CA
(MVHQ192ME2CA+ MVHQ192ME2CA)



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

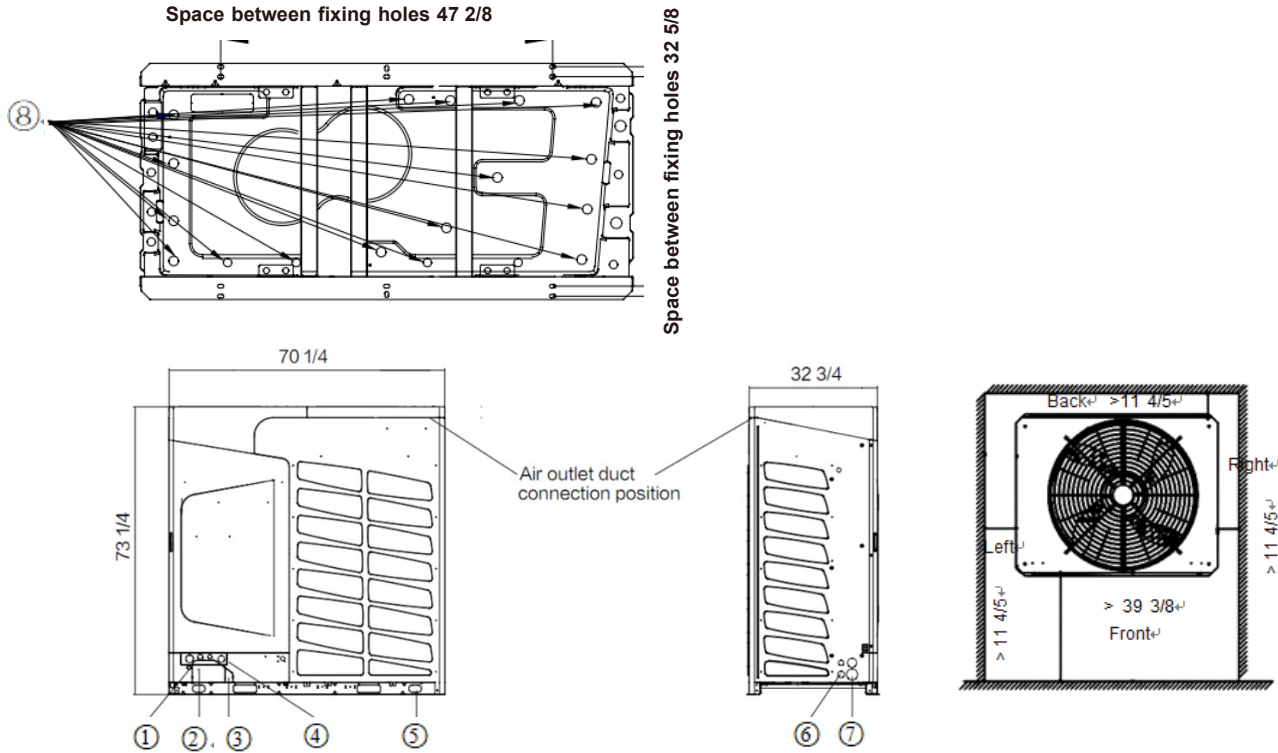
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SPECIFICATIONS

Marketing Model name		MVHQ384ME2CA	Notes
Nominal Capacity (Btu/h)		384000	Compatible with all Haier MRV indoor units. Structure The unit shall be galvanized steel with a powder coated finish. Hinge access door design for easier installation and maintenance. Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube. The aluminum fins of the heat exchanger shall have a protective coating. Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. Refrigerant System EVI compressors provide advanced low ambient heating performance. Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability. Agency Certified to latest version AHRI standard 1230. Snow hood accessory Compatible with optional snow hood accessories to protect unit in worst weather. Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
Electrical	Voltage, Cycle, Phase V/Hz/-	230/60/3	
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	364000	
	EER @95 °F	9.70	
	IEER	18.40	
	Rated Heating Capacity @47°F(Btu/h)	384000	
	COP @ 47°F	3.20	
	Rated Heating Capacity@17°F(Btu/h)	268000	
	COP @ 17°F	2.20	
	SCHE	20.5	
Performance Ducted	Rated Cooling Capacity@95°F (Btu/h)	364000	
	EER @95 °F	9.40	
	IEER	18.50	
	Rated Heating Capacity @47°F(Btu/h)	384000	
	COP @ 47°F	3.30	
	Rated Heating Capacity@17°F(Btu/h)	268000	
	COP @ 17°F	2.30	
	SCHE	20.8	
Electrical	MCA (A) / MOP (A)	71+71 / 110+110	
Operation Range	Working temp. Cooling F° + Snow hood	-4F-122F	
	Working temp. Heating F°	-22F~60F	
ODU	Dimension: H*W*D	73-1/4*70-1/4*32-1/4 +73-1/4*70-1/4*32-1/4	
	Refrigerant charge (oz.)	1040.6+1040.6	
	Net Weight- lbs	1162.0+1162.0	
Compressor	Type	Scroll	
	Qty	2+2	
	Oil Type	FVC68D	
	Refrigerant Type	R410A	
Connection ratio	Maximum number of indoor units	64	
	Connection ratio (IDU/ODU capacity)	50% — 130%	
Fan	Type/ Qty	Propeller/4	
	CFM	16400+16400	
Refrigerant piping	Liquid pipe O.D. I in	5/8 +5/8	
	Gas pipe O.D. i in	1-1/8 +1-1/8	
	High Gas pipe O.D. i in	1-1/8 +1-1/8	
Sound	Sound Level dB(A)	73	

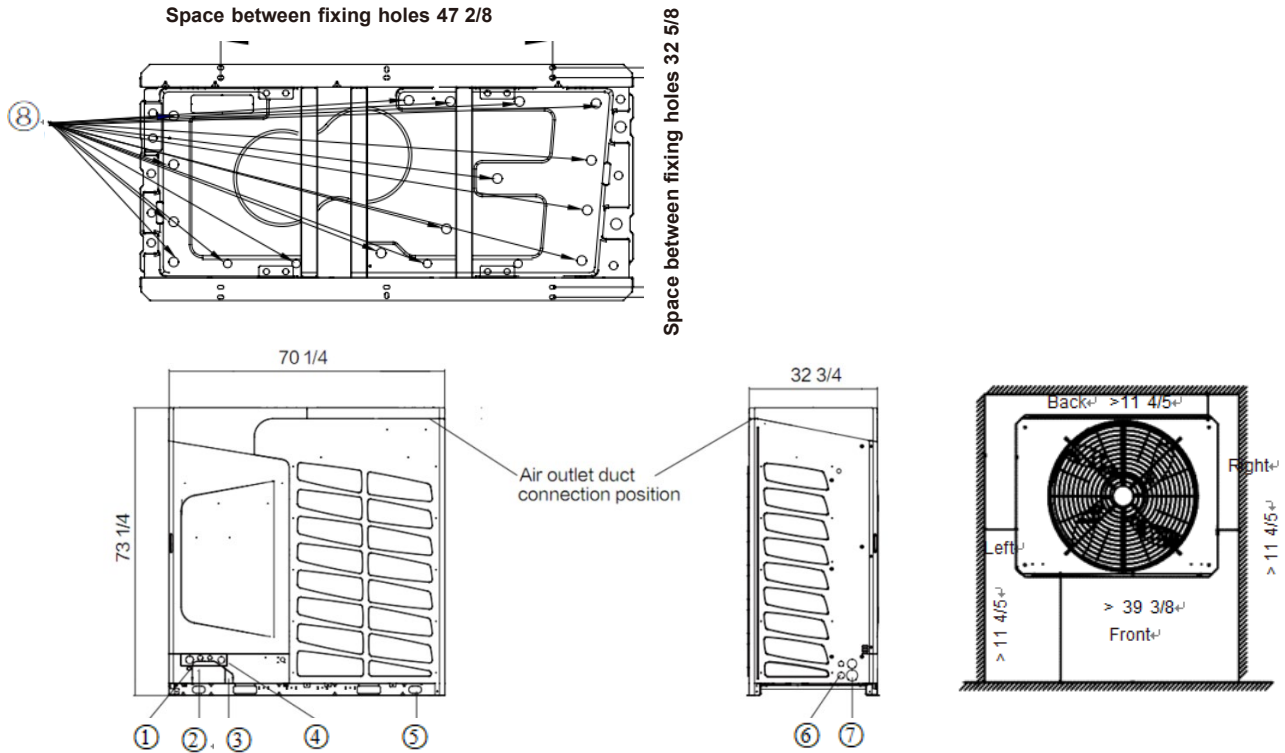
Drawing

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	

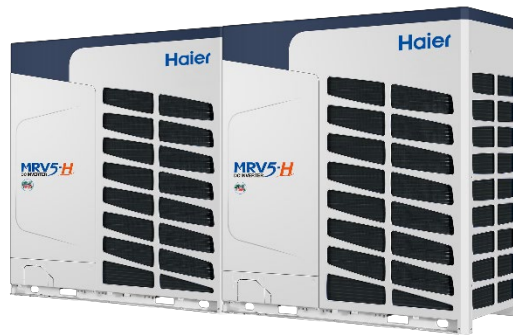
UNIT: Inches



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	

VRF ODU Unit – 34T

MVHQ408ME2CA
(MVHQ192ME2CA+ MVHQ216ME2CA)



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

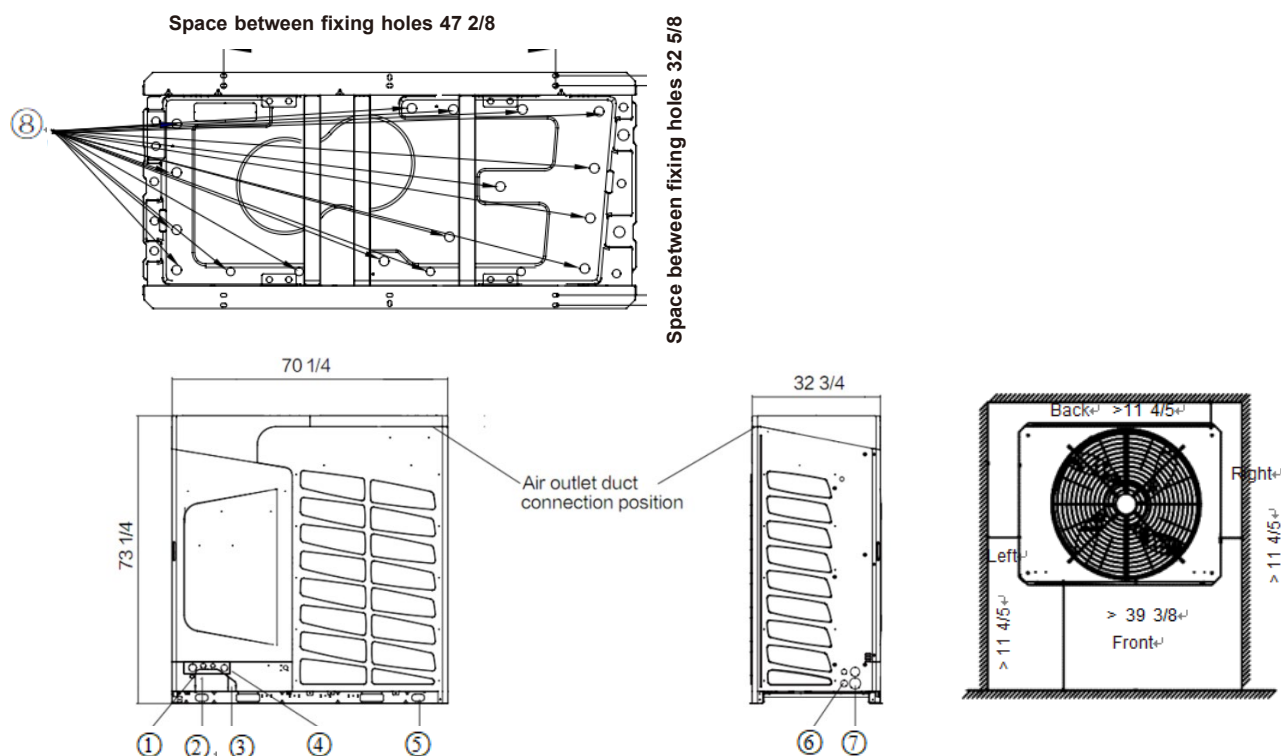
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SPECIFICATIONS

Marketing Model name		MVHQ408ME2CA	Notes
Nominal Capacity (Btu/h)		408000	Compatible with all Haier MRV indoor units.
Electrical	Voltage, Cycle, Phase V/Hz/-	230/60/3	
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	380000	Structure The unit shall be galvanized steel with a powder coated finish.
	EER @95 °F	9.20	
	IEER	18.10	Hinge access door design for easier installation and maintenance.
	Rated Heating Capacity @47°F(Btu/h)	400000	
	COP @ 47°F	3.20	Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube.
	Rated Heating Capacity@17°F(Btu/h)	284000	
	COP @ 17°F	2.20	The aluminum fins of the heat exchanger shall have a protective coating.
Performance Ducted	SCHE	19.1	
	Rated Cooling Capacity@95°F (Btu/h)	380000	Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours.
	EER @95 °F	9.30	
	IEER	18.50	Refrigerant System EVI compressors provide advanced low ambient heating performance.
	Rated Heating Capacity @47°F(Btu/h)	400000	
	COP @ 47°F	3.20	Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system.
	Rated Heating Capacity@17°F(Btu/h)	284000	
Electrical	COP @ 17°F	2.20	Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise.
	SCHE	19.2	
	MCA (A) / MOP (A)	71+83 / 110+125	Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability.
Operation Range	Working temp. Cooling F° + Snow hood	-4F-122F	
	Working temp. Heating F°	-22F~60F	Agency Certified to latest version AHRI standard 1230.
ODU	Dimension: H*W*D	73-1/4*70-1/4*32-1/4 +73-1/4*70-1/4*32-1/4	
	Refrigerant charge (oz.)	1040.6+1040.6	Snow hood accessory Compatible with optional snow hood accessories to protect unit in worst weather.
	Net Weight- lbs	1162.0+1162.0	
Compressor	Type	Scroll	Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
	Qty	2+2	
	Oil Type	FVC68D	
	Refrigerant Type	R410A	
Connection ratio	Maximum number of indoor units	64	
	Connection ratio (IDU/ODU capacity)	50% — 130%	
Fan	Type/ Qty	Propeller/4	
	CFM	16400 +16400	
Refrigerant piping	Liquid pipe O.D. I in	5/8+5/8	
	Gas pipe O.D. i in	1-1/8 +1-1/8	
	High Gas pipe O.D. i in	1-1/8 +1-1/8	
Sound	Sound Level dB(A)	73	

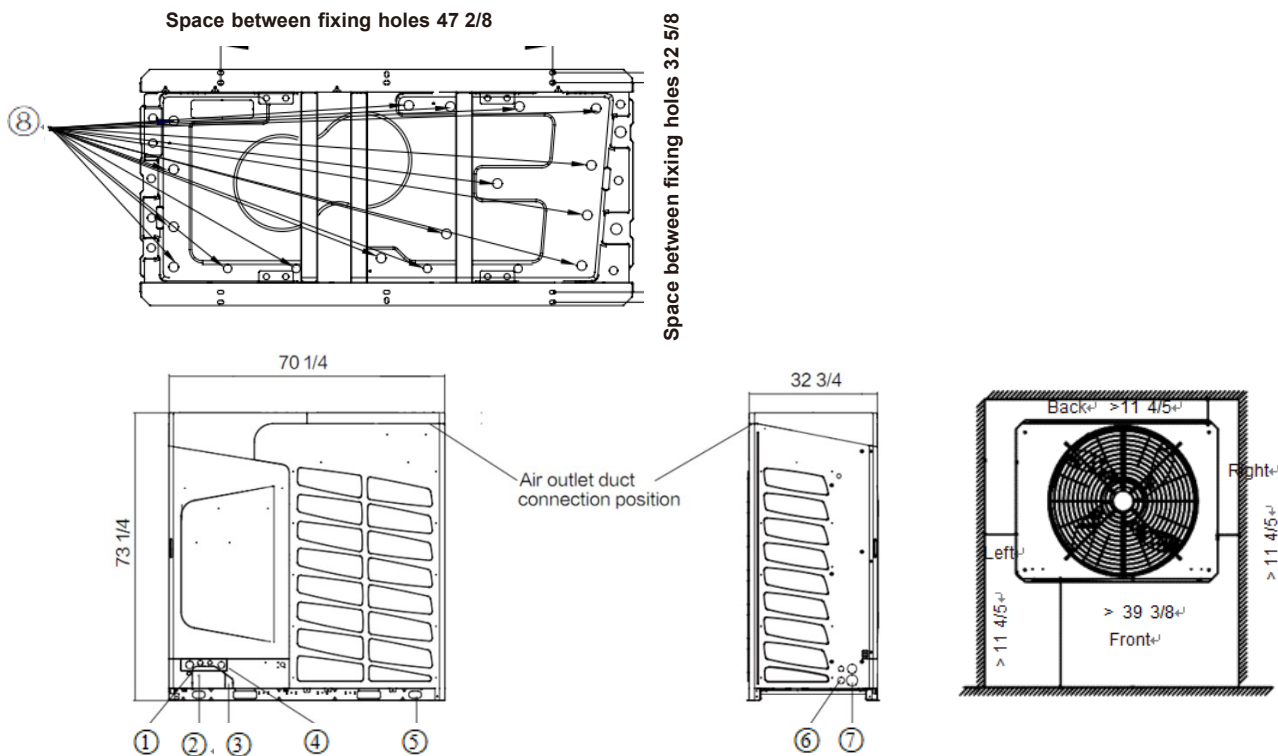
Drawing

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	

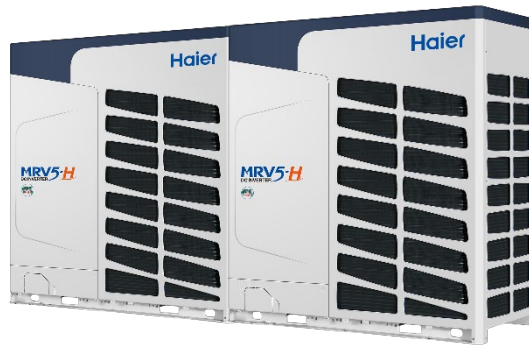
UNIT: Inches



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	

VRF ODU Unit – 36T

MVHQ432ME2CA
(MVHQ216ME2CA+ MVHQ216ME2CA)



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 $\pm 0.5^{\circ}\text{F}$.
- Internal oil balancing, and recycling operation extends the life of compressors.

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

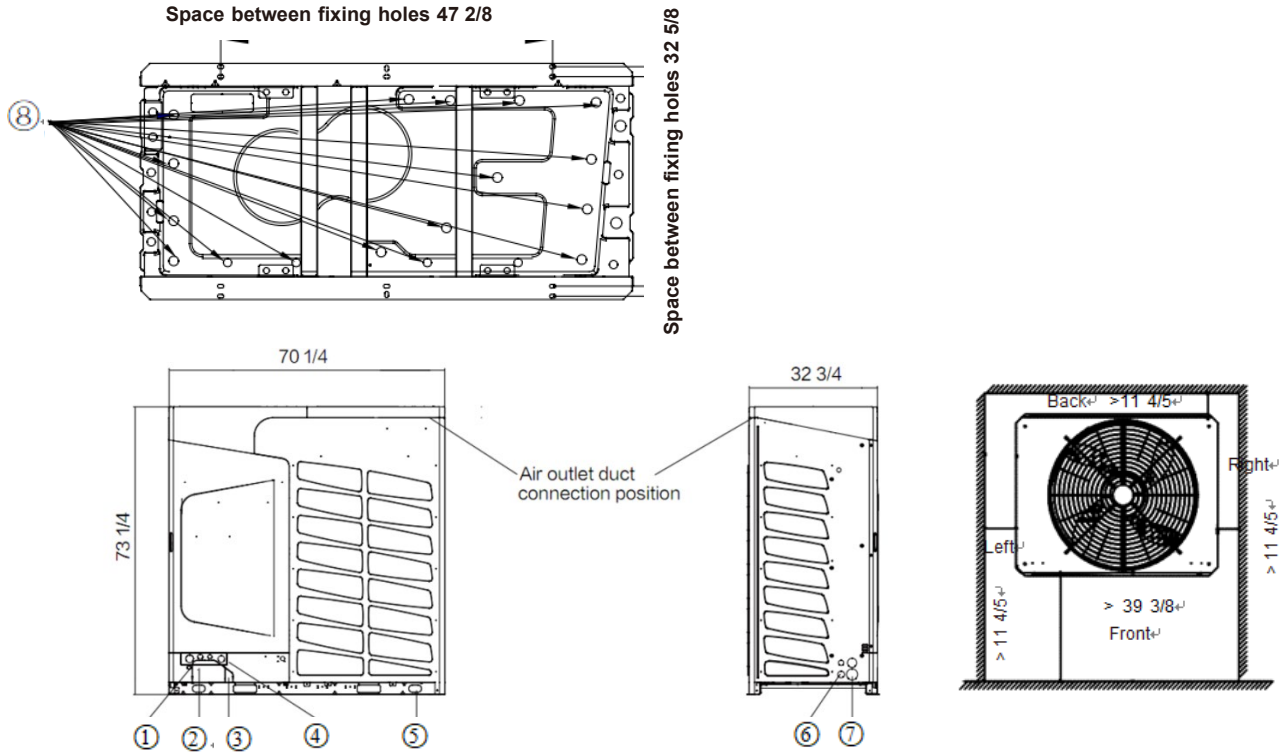
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SPECIFICATIONS

Marketing Model name		MVHQ432ME2CA	Notes
Nominal Capacity (Btu/h)		432000	Compatible with all Haier MRV indoor units. Structure The unit shall be galvanized steel with a powder coated finish. Hinge access door design for easier installation and maintenance. Heat Exchanger The heat exchanger shall be mechanically bonded fin to copper tube. The aluminum fins of the heat exchanger shall have a protective coating. Salt spray test method: ASTM B117-18 - the heat exchanger showed no unusual rust or corrosion development for 1000 hours. Refrigerant System EVI compressors provide advanced low ambient heating performance. Refrigerant flow shall be controlled by EEV (electronic expansion valve) throughout the system. Sub-cooling devices in system maintain capacity at extreme system refrigerant pipe lengths and minimize refrigerant noise. Automatic oil balancing The oil is balanced automatically internally which simplifies system design and improves reliability. Agency Certified to latest version AHRI standard 1230. Snow hood accessory Compatible with optional snow hood accessories to protect unit in worst weather. Recommendation: The minimum number of indoor machine connections is greater than or equal to 2.
Electrical	Voltage, Cycle, Phase V/Hz/-	230/60/3	
Performance Non-Ducted	Rated Cooling Capacity@95°F (Btu/h)	400000	
	EER @95 °F	8.90	
	IEER	17.50	
	Rated Heating Capacity @47°F(Btu/h)	410000	
	COP @ 47°F	3.20	
	Rated Heating Capacity@17°F(Btu/h)	300000	
	COP @ 17°F	2.15	
	SCHE	17.9	
Performance Ducted	Rated Cooling Capacity@95°F (Btu/h)	400000	
	EER @95 °F	9.00	
	IEER	18.10	
	Rated Heating Capacity @47°F(Btu/h)	410000	
	COP @ 47°F	3.20	
	Rated Heating Capacity@17°F(Btu/h)	300000	
	COP @ 17°F	2.20	
	SCHE	17.6	
Electrical	MCA (A) / MOP (A)	83+83/125+125	
Operation Range	Working temp. Cooling F° + Snow hood	-4F-122F	
	Working temp. Heating F°	-22F~60F	
ODU	Dimension: H*W*D	73-1/4*70-1/4*32-1/4+73-1/4*70-1/4*32-1/4	
	Refrigerant charge (oz.)	1040.6+1040.6	
	Net Weight- lbs	1162.0+1162.0	
Compressor	Type	Scroll	
	Qty	2+2	
	Oil Type	FVC68D	
	Refrigerant Type	R410A	
Connection ratio	Maximum number of indoor units	64	
	Connection ratio (IDU/ODU capacity)	50% — 130%	
Fan	Type/ Qty	Propeller/4	
	CFM	16400 +16400	
Refrigerant piping	Liquid pipe O.D. I in	5/8+5/8	
	Gas pipe O.D. i in	1-1/8+1-1/8	
	High Gas pipe O.D. i in	1-1/8 +1-1/8	
Sound	Sound Level dB(A)	74	

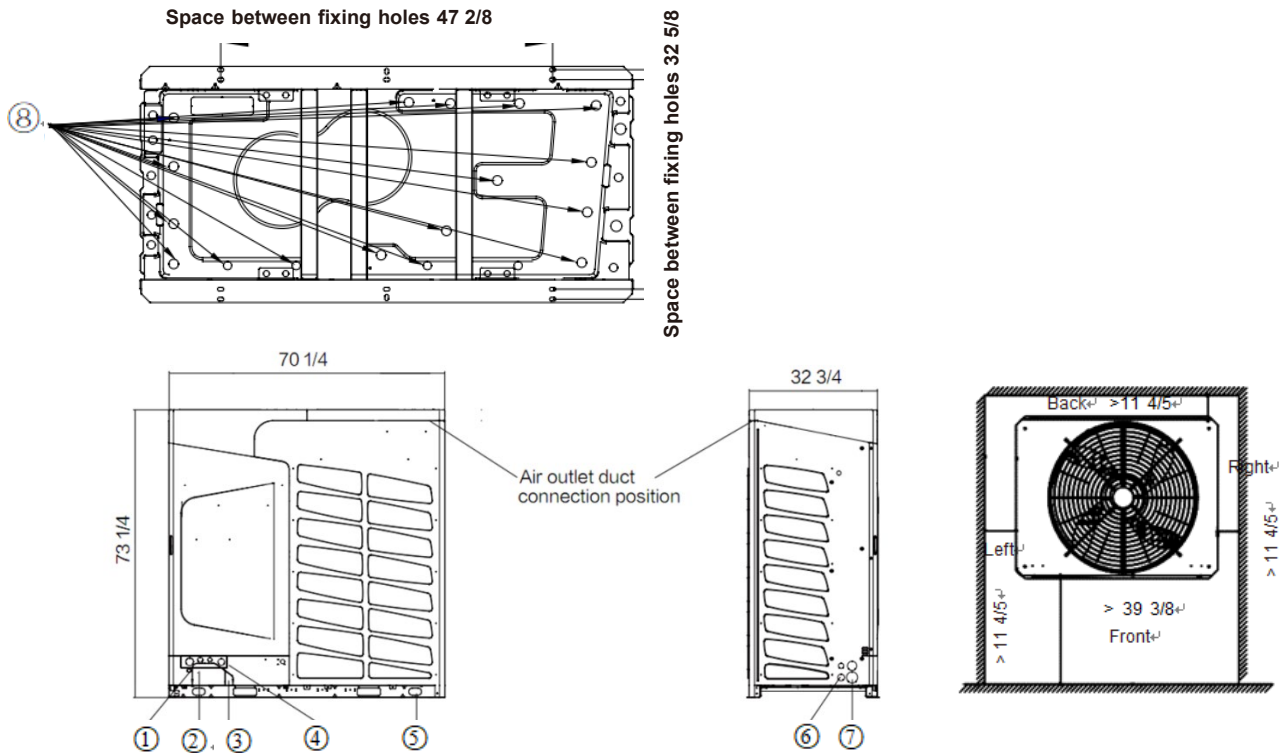
Drawing

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	

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	