

# MRV5-H

DC INVERTER

033 Features & Benefits

037 MRV 5-H Outdoor



MRV5-H  
DC INVERTER

Haier





# MRV5-H

- High Efficiency
- Super Comfort
- Super Convenience

## SUPER EFFICIENCY

### Speed-less DC fan motor

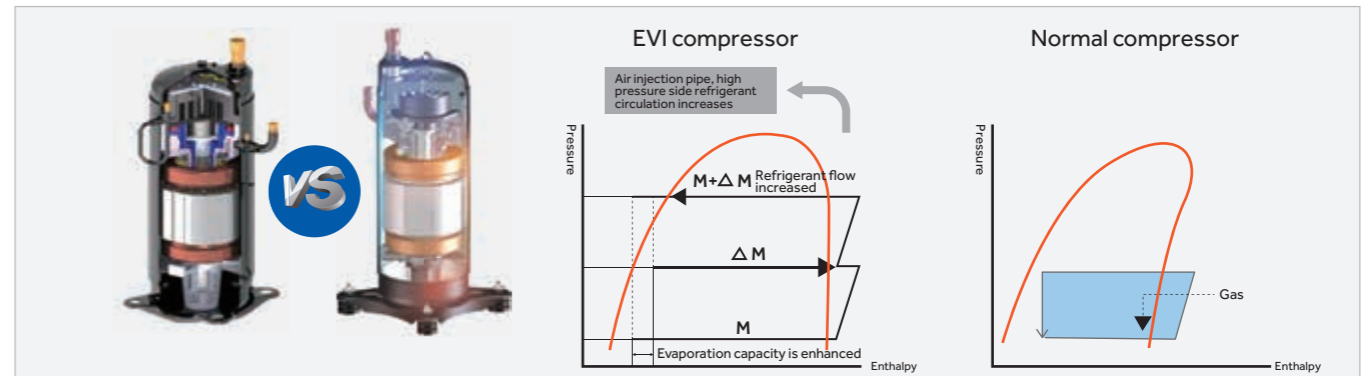
Standard with speed-less DC fan motor, compared with normal type, the motor efficiency is increased by 17%.



## SUPER EFFICIENCY

### EVI compressor

Standard with EVI compressor, increase the refrigerant circulation by 15%, strong output.



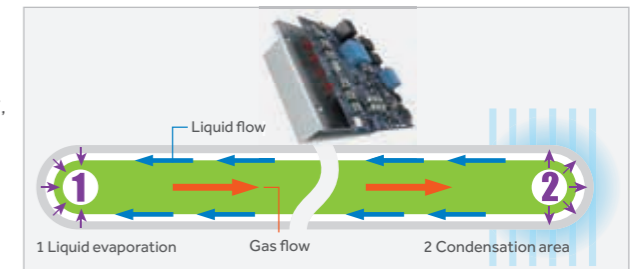
### 2 stage Sub-cooling

Sub-cooling degree is up to 30°C, improve the cooling and heating capacity.



### Superconducting refrigerant cooling Technology

Adopt innovative super heat conduction cooling PCB technology, heat transfer media conduct heat 100 times better than copper. Does not occupy the refrigerant amount of the system, no additional refrigerant loss. At the same time, this cooling mode will not affect the rotation of the electric control box, easy maintain.



### Base pan heater (optional)

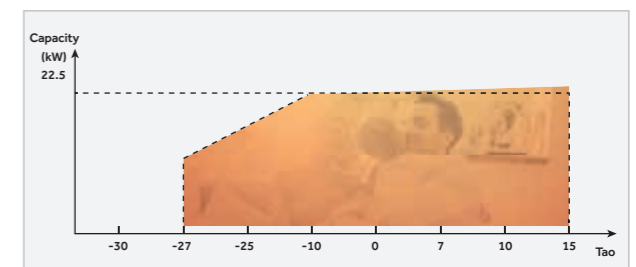
In cold areas, in order to ensure the effect of frost, you can choose electric heating chassis, frost more thoroughly, stable operation.



## SUPER COMFORT

### Reliable performance in low temperature

In the low temperature, compared with the standard series, the heating capacity increased by 10%. The heating capacity is 100% under -10°C.





# ☀️ SUPER COMFORT

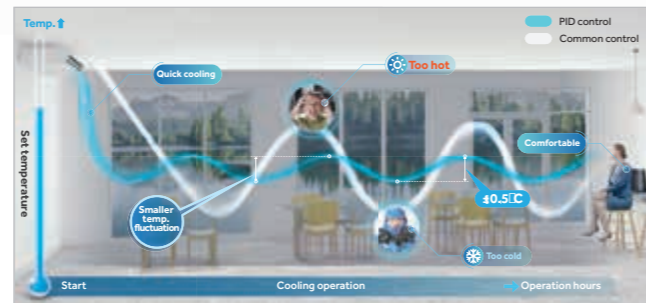
## Continuous heating technology

Intelligent defrosting technology, realizing continuous heating.



## Precise temperature control at ±0.5°C

With twin pressure sensors and twin EEVS, the refrigerant volume can be adjusted automatically to realize precise temperature control, improving indoor comfort.



## Wide operation tem.

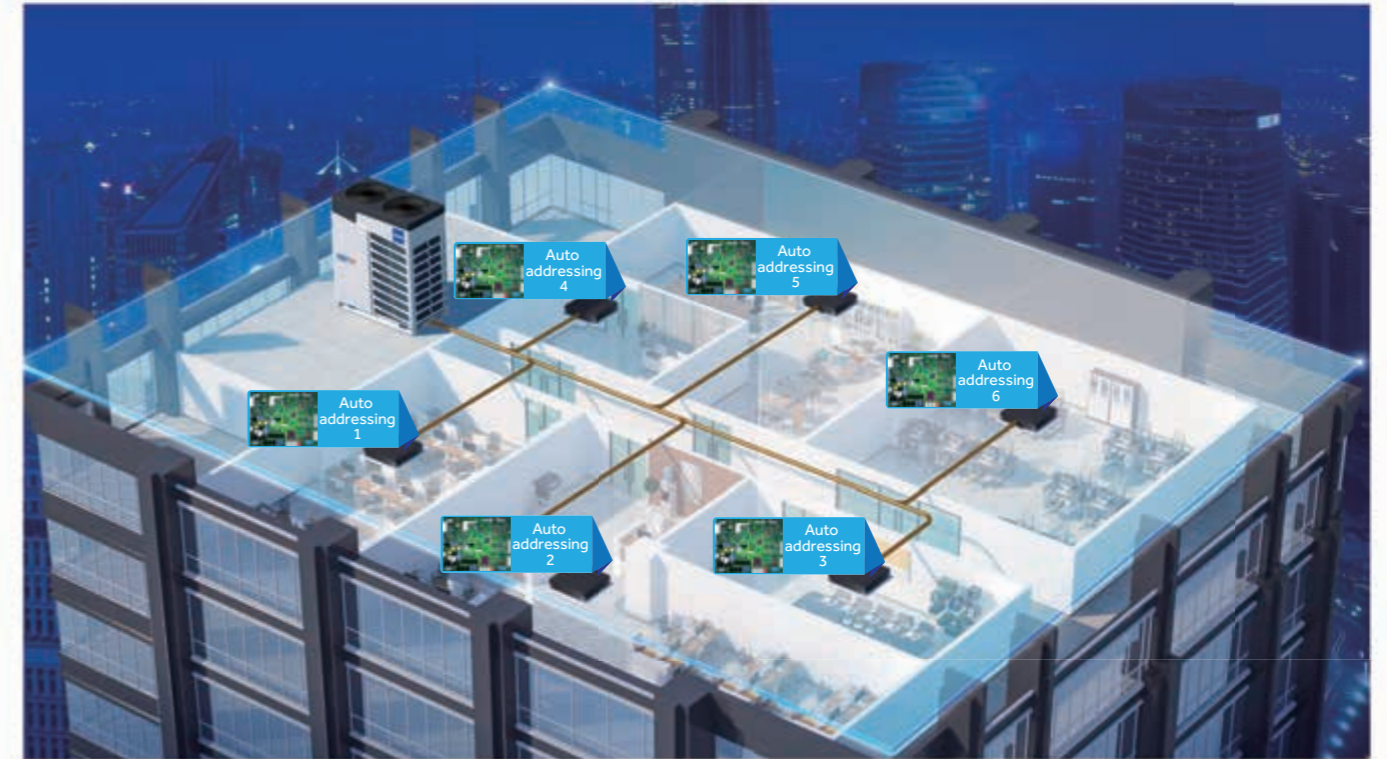
Cooling: -5°C~52°C  
Heating: -27°C~21°C



# 🚀 SUPER CONVENIENCE

## Auto addressing indoor units

The ODU can automatically address to the indoor unit through the module on PCB, and the controller can search and set the address of the indoor unit, more convenient.



## Rotary electric control box design

Rotary electric control box design, while maintaining the internal space, maintainers only need to rotate the box, do not need to dismantle the box, easy and fast maintenance.



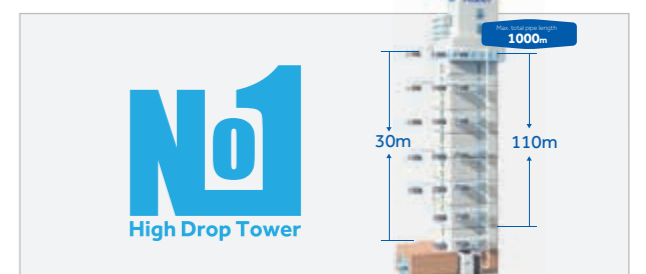
## 4-way pipe connection

You can freely choose the front, back, left side, right side of the unit to connect the pipe, easy to install and design.



## Long pipe length, high height drop

Total pipe length 1000m;  
Drop length 110m.





# MRV5-H

DC INVERTER



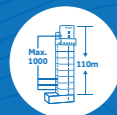
3/380~415/50/60



AV08NMVETA  
AV10NMVETA  
AV12NMVETA  
AV14NMVETA  
AV16NMVETA



AV18NMVETA  
AV20NMVETA  
AV22NMVETA  
AV24NMVETA  
AV26NMVETA



Total pipe length 1000m, height drop 110m



EVI compressors



Single module 26HP, maximum combination 104HP



Intelligent defrosting technology



Model			AV08NMVETA	AV10NMVETA	AV12NMVETA	AV14NMVETA	AV16NMVETA	AV18NMVETA	AV20NMVETA	AV22NMVETA	AV24NMVETA	AV26NMVETA	
Combination model			/	/	/	/	/	/	/	/	/	/	
			/	/	/	/	/	/	/	/	/	/	
			/	/	/	/	/	/	/	/	/	/	
			/	/	/	/	/	/	/	/	/	/	
Capacity	Capacity range	HP	8	10	12	14	16	18	20	22	24	26	
	Cooling	kW	25.2	28.0	33.5	40.0	45.0	50.4	56.0	61.5	68.0	73.5	
	Heating	kW	25.2	28.0	33.5	40.0	45.0	50.4	56.0	61.5	68.0	73.5	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	6.24	7.37	9.31	11.94	13.24	15.70	16.62	18.30	21.94	24.75
		Rated current	A	10.53	12.44	15.71	20.16	22.34	26.51	28.05	30.90	31.42	35.87
		Max power input	kW	14.30	15.10	16.32	17.58	20.69	25.90	28.91	31.82	32.81	35.35
		Max current	A	23.81	25.14	27.17	29.27	34.50	40.30	46.30	51.91	54.12	58.86
		SEER		7.25	7.09	6.69	6.60	6.36	6.78	6.75	6.54	5.97	5.68
		ηs.c	%	287	281	265	261	251	268	267	259	236	224
	Heating	Rated power input	kW	5.56	6.32	7.71	9.71	10.92	12.81	14.23	16.14	18.86	21.62
		Rated current	A	9.67	10.99	13.40	16.88	18.99	22.27	24.75	28.06	32.80	37.60
		Max power input	kW	11.69	12.19	12.69	16.10	19.56	21.93	24.70	25.69	30.40	32.45
		Max current	A	19.47	20.30	21.13	26.81	32.57	36.51	41.13	42.78	50.62	54.03
		SCOP		4.61	4.51	4.51	4.31	4.10	4.31	4.38	4.39	4.34	3.88
ηs.h		%	182	177	177	169	161	170	172	172	170	152	
Performance	Air flow (H)	m³/h	11000	11000	12000	13500	13500	17000	17000	18000	18000	19000	
	Sound pressure level (H)	dB(A)	56	56	59	59	60	61	61	61	62	62	
Installation	External dimensions(W/D/H)	mm	980/750/1690			980/750/1690			1410/750/1690			1410/750/1690	
	Shipping dimensions(W/D/H)	mm	1070/850/1858			1070/850/1858			1515/850/1858			1515/850/1858	
	Net/Shipping weight	kg	255/280			255/280			385/410			385/410	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	
	Compressor quantity		1INV	1INV	1INV	1INV	1INV	2INV	2INV	2INV	2INV	2INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	10	10	10	10	10	10	10	10	10	10	
	Refrigerant liquid pipe	mm	9.52	9.52	12.7	12.7	12.7	15.88	15.88	15.88	15.88	15.88	
	Refrigerant gas pipe	mm	19.05	22.22	25.4	25.4	28.58	28.58	28.58	28.58	28.58	28.58	
	Max. total pipe length	m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	
Max drop between I.U.&O.U. (O.U. down/up) *1	m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90		
Standard drop between I.U.&O.U. (O.U. up/down) *2	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40		
Max drop between I.U. *3	m	30	30	30	30	30	30	30	30	30	30		
Standard drop between I.U. *4	m	18	18	18	18	18	18	18	18	18	18		
External static pressure	Pa	110	110	110	110	110	110	110	110	110	110		
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		13	16	20	24	27	30	33	36	40	43	
Working temp.	Cooling	°C	-5-52			-5-52			-5-52			-5-52	
	Heating	°C	-27-21			-27-21			-27-21			-27-21	

Max drop between I.U.&O.U. \*1  
Standard design and production in the factory.  
Max drop between I.U. \*2  
Standard design and production in the factory.  
Max drop between I.U. \*3  
Standard design and production in the factory.  
Max drop between I.U. \*4  
Standard design and production in the factory.  
\* All the specifications are tested under nominal condition in cooling, indoor temp. is 27°C DB/19°C WB, outdoor temp. 35°C DB/24°C WB in heating, indoor temp. is 20°C DB in heating, outdoor temp. is 7°C DB/6°C WB



# MRV5-H

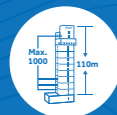
DC INVERTER

3/380~415/50/60



AV08NMVETA  
AV10NMVETA  
AV12NMVETA  
AV14NMVETA  
AV16NMVETA

AV18NMVETA  
AV20NMVETA  
AV22NMVETA  
AV24NMVETA  
AV26NMVETA



Total pipe length 1000m,  
height drop 110m



EVI compressors



Single module 26HP,  
maximum combination 104HP



Intelligent defrosting  
technology

Model			AV28NMVETA	AV30NMVETA	AV32NMVETA	AV34NMVETA	AV36NMVETA	AV38NMVETA	
Combination model			AV14NMVETA	AV14NMVETA	AV16NMVETA	AV16NMVETA	AV18NMVETA	AV18NMVETA	
			AV14NMVETA	AV16NMVETA	AV16NMVETA	AV18NMVETA	AV18NMVETA	AV20NMVETA	
			/	/	/	/	/	/	
			/	/	/	/	/	/	
Capacity	Capacity range	HP	28	30	32	34	36	38	
	Cooling	kW	80.0	85.0	90.0	95.4	100.8	106.4	
	Heating	kW	80.0	85.0	90.0	95.4	100.8	106.4	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	23.88	25.18	26.47	28.94	31.40	32.32
		Rated current	A	40.32	42.50	44.69	48.85	53.01	54.56
		Max power input	kW	35.16	38.27	41.38	46.59	51.80	54.81
		Max current	A	58.54	69.00	80.60	92.60	103.82	108.24
		SEER		5.68	6.54	6.42	6.63	6.84	6.82
		ηs.c	%	224	259	254	262	271	270
	Heating	Rated power input	kW	19.42	20.63	21.84	23.73	25.62	27.04
		Rated current	A	33.76	35.87	37.98	41.27	44.55	47.02
		Max power input	kW	32.20	39.12	43.86	49.40	51.38	60.80
		Max current	A	53.61	65.14	73.03	82.25	85.55	101.23
		SCOP		4.31	4.19	4.10	4.21	4.31	4.34
		ηs.h	%	169	165	161	165	169	171
Performance	Air flow (H)	m³/h	27000	27000	27000	30500	34000	34000	
	Sound pressure level (H)	dB(A)	62	62.5	63	63.5	64	64	
Installation	External dimensions(W/D/H)	mm	980/750/1690+980/750/1690			980/750/1690+1410/750/1690		1410/750/1690+1410/750/1690	
	Shipping dimensions(W/D/H)	mm	1070/850/1858+1070/850/1858			1070/850/1858+1485/850/1858		1485/850/1858+1485/850/1858	
	Net/Shipping weight	kg	255/280+255/280			255/280+385/410		385/410+385/410	
	Compressor type		DC INV. SCROLL			DC INV. SCROLL		DC INV. SCROLL	
	Compressor brand		MITSUBISHI ELECTRIC			MITSUBISHI ELECTRIC		MITSUBISHI ELECTRIC	
	Compressor quantity		2INV			2INV		3INV	
	Refrigerant type		R410A			R410A		R410A	
	Refrigerant charge	kg	20			20		20	
	Refrigerant liquid pipe	mm	15.88			19.05		19.05	
	Refrigerant gas pipe	mm	28.58			31.8		38.1	
	Max.total pipe lenth	m	1000			1000		1000	
	Max. pipe length (Equivalent/Actual)	m	260/220			260/220		260/220	
	Max drop between I.U.&O.U. (O.U. down/up) *1	m	110/90			110/90		110/90	
	Standard drop between I.U.&O.U. (O.U. up/down) *2	m	50/40			50/40		50/40	
	Max drop between I.U. *3	m	30			30		30	
	Standard drop between I.U. *4	m	18			18		18	
	External static pressure	Pa	110			110		110	
Connection ratio	Connectable indoor unit ratio	%	50-130			50-130		50-130	
	Maximum number of indoor units		47			53		59	
Working temp.	Cooling	°C	-5-52			-5-52			
	Heating	°C	-27-21			-27-21			

Max drop between I.U.&O.U. \*1  
Standard drop between I.U.&O.U. \*2  
Max drop between I.U. \*3  
Standard drop between I.U. \*4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.  
Standard design and production in the factory.  
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.  
Standard design and production in the factory.

\* All the specifications are tested under nominal condition in cooling, indoor temp. is 27°C DB/19°C WB, Outdoor temp 35°C DB/24°C WB in heating, indoor temp. is 20°C DB in heating, outdoor temp. is 7°C DB/6°C WB



# MRV5-H

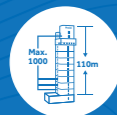
DC INVERTER

3/380~415/50/60



AV08NMVETA  
AV10NMVETA  
AV12NMVETA  
AV14NMVETA  
AV16NMVETA

AV18NMVETA  
AV20NMVETA  
AV22NMVETA  
AV24NMVETA  
AV26NMVETA



Total pipe length 1000m,  
height drop 110m



EVI compressors



Single module 26HP,  
maximum combination 104HP



Intelligent defrosting  
technology



Model			AV40NMVETA	AV42NMVETA	AV44NMVETA	AV46NMVETA	AV48NMVETA	AV50NMVETA	AV52NMVETA	AV54NMVETA	AV56NMVETA	
Combination model	AV20NMVETA		AV20NMVETA		AV22NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA	AV18NMVETA	AV18NMVETA	
	AV20NMVETA		AV22NMVETA		AV22NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA	AV26NMVETA	AV18NMVETA	AV18NMVETA	
	/		/		/	/	/	/	/	AV18NMVETA	AV20NMVETA	
	/		/		/	/	/	/	/	/	/	
Capacity	Capacity range	HP	40	42	44	46	48	50	52	54	56	
	Cooling	kW	112.0	117.5	123.0	129.5	136.0	141.5	147.0	151.2	156.8	
	Heating	kW	112.0	117.5	123.0	129.5	136.0	141.5	147.0	151.2	156.8	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	33.23	34.92	36.61	36.91	37.22	39.86	42.49	47.10	48.02
		Rated current	A	56.11	58.95	61.80	62.32	62.84	67.29	71.73	79.52	81.07
		Max power input	kW	57.82	60.73	63.64	64.63	65.62	68.16	70.70	77.70	80.71
		Max current	A	117.72	117.08	138.00	161.20	185.20	207.64	216.48	235.43	234.17
		SEER		6.80	6.69	6.59	6.76	6.97	6.87	6.78	6.85	6.84
		ηs.c	%	269	265	261	267	276	272	268	271	271
	Heating	Rated power input	kW	28.47	30.37	32.27	35.00	37.73	40.49	43.25	38.43	39.85
		Rated current	A	49.50	52.81	56.12	60.86	65.60	70.40	75.20	66.82	69.30
		Max power input	kW	64.90	64.40	78.24	87.72	98.80	102.77	121.60	129.80	128.80
		Max current	A	108.06	107.23	130.28	146.05	164.50	171.11	202.46	216.12	214.45
		SCOP		4.38	4.38	4.39	4.36	4.34	4.08	3.88	4.31	4.33
		ηs.h	%	172	172	173	171	170	160	152	169	170
Performance	Air flow (H)	m³/h	34000	35000	36000	36000	36000	37000	38000	51000	51000	
	Sound pressure level (H)	dB(A)	64	64	64	64.5	65	65	65	65.8	65.8	
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690				1410/750/1690+1410/750/1690				1410/750/1690+1410/750/1690+1410/750/1690	
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858				1485/850/1858+1485/850/1858				1485/850/1858+1485/850/1858+1485/850/1858	
	Net/Shipping weight	kg	385/410+385/410				385/410+385/410				385/410+385/410+385/410	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		mitsubishi	mitsubishi	mitsubishi	mitsubishi	mitsubishi	mitsubishi	mitsubishi	mitsubishi	mitsubishi	
	Compressor quantity		4INV	4INV	4INV	4INV	4INV	4INV	4INV	6INV	6INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	20	20	20	20	20	20	20	30	30	
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	
	Max.total pipe length	m	1000	1000	1000	1000	1000	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	
	Max drop between I.U.&O.U. (O.U. down/up) *1	m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	
Standard drop between I.U.&O.U. (O.U. up/down) *2	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40		
Max drop between I.U. *3	m	30	30	30	30	30	30	30	30	30		
Standard drop between I.U. *4	m	18	18	18	18	18	18	18	18	18		
External static pressure	Pa	110	110	110	110	110	110	110	110	110		
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	64	64	64	64	64	
Working temp.	Cooling	°C	-5~52				-5~52				-5~52	
	Heating	°C	-27~21				-27~21				-27~21	

Max drop between I.U.&O.U. \*1  
Standard drop between I.U.&O.U. \*2  
Max drop between I.U. \*3  
Standard drop between I.U. \*4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.  
Standard design and production in the factory.  
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.  
Standard design and production in the factory.

\*All the specifications are tested under nominal condition in cooling, indoor temp. is 27°C DB/19°C WB, Outdoor temp. 35°C DB/24°C WB in heating, indoor temp. is 20°C DB in heating, outdoor temp. is 7°C DB/6°C WB



# MRV5-H

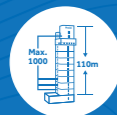
DC INVERTER

3/380~415/50/60



AV08NMVETA  
AV10NMVETA  
AV12NMVETA  
AV14NMVETA  
AV16NMVETA

AV18NMVETA  
AV20NMVETA  
AV22NMVETA  
AV24NMVETA  
AV26NMVETA



Total pipe length 1000m,  
height drop 110m



EVI compressors



Single module 26HP,  
maximum combination 104HP



Intelligent defrosting  
technology



Model			AV58NMVETA	AV60NMVETA	AV62NMVETA	AV64NMVETA	AV66NMVETA	AV68NMVETA	AV70NMVETA	AV72NMVETA	
Combination model			AV18NMVETA	AV20NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA
			AV20NMVETA	AV20NMVETA	AV20NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA
			AV20NMVETA	AV20NMVETA	AV20NMVETA	AV20NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA
			/	/	/	/	/	/	/	/	/
Capacity	Capacity range	HP	58	60	62	64	66	68	70	72	
	Cooling	kW	162.4	168.0	173.5	179.0	184.5	191.0	197.5	204.0	
	Heating	kW	162.4	168.0	173.5	179.0	184.5	191.0	197.5	204.0	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	48.94	49.85	51.54	53.22	54.91	55.22	55.53	55.83
		Rated current	A	82.61	84.16	87.01	89.85	92.70	93.22	93.74	94.26
		Max power input	kW	83.72	86.73	89.64	92.55	95.46	96.45	97.44	98.43
		Max current	A	276.00	322.40	370.40	415.28	432.96	470.86	468.33	552.00
		SEER		6.83	6.81	6.74	6.67	6.60	6.80	6.86	6.98
		ηs.c	%	270	269	267	264	261	269	271	276
	Heating	Rated power input	kW	41.27	42.70	44.60	46.51	48.41	51.14	53.86	56.59
		Rated current	A	71.77	74.25	77.56	80.87	84.18	88.92	93.66	98.40
		Max power input	kW	156.48	175.44	197.60	205.54	243.20	259.60	257.60	312.96
		Max current	A	260.56	292.11	329.00	342.22	404.93	432.23	428.90	521.12
SCOP			4.36	4.38	4.38	4.39	4.39	4.37	4.35	4.34	
	ηs.h	%	171	172	172	172	173	172	171	170	
Performance	Air flow (H)	m³/h	51000	51000	52000	53000	54000	54000	54000	54000	
	Sound pressure level (H)	dB(A)	65.8	65.8	65.8	65.8	65.8	66	66.5	66.8	
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690			1410/750/1690+1410/750/1690+1410/750/1690					
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858+1485/850/1858			1485/850/1858+1485/850/1858+1485/850/1858					
	Net/Shipping weight	kg	385/410+385/410+385/410			385/410+385/410+385/410					
	Compressor type		DC INV. SCROLL			DC INV. SCROLL					
	Compressor brand		MITSUBISHI ELECTRIC			MITSUBISHI ELECTRIC					
	Compressor quantity		6INV			6INV					
	Refrigerant type		R410A			R410A					
	Refrigerant charge	kg	30			30					
	Refrigerant liquid pipe	mm	19.05			19.05			22.2		22.2
	Refrigerant gas pipe	mm	41.3			41.3			44.5		44.5
	Max.total pipe lenth	m	1000			1000					
Max. pipe length (Equivalent/Actual)	m	260/220			260/220						
Max drop between I.U.&O.U. (O.U. down/up) *1	m	110/90			110/90						
Standard drop between I.U.&O.U. (O.U. up/down) *2	m	50/40			50/40						
Max drop between I.U. *3	m	30			30						
Standard drop between I.U. *4	m	18			18						
External static pressure	Pa	110			110						
Connection ratio	Connectable indoor unit ratio	%	50-130			50-130					
	Maximum number of indoor units		64			64					
Working temp.	Cooling	°C	-5-52			-5-52					
	Heating	°C	-27-21			-27-21					

Max drop between I.U.&O.U. \*1  
Standard drop between I.U.&O.U. \*2  
Max drop between I.U. \*3  
Standard drop between I.U. \*4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.  
Standard design and production in the factory.  
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.  
Standard design and production in the factory.

\* All the specifications are tested under nominal condition in cooling, indoor temp. is 27°C DB/19°C WB, Outdoor temp 35°C DB/24°C WB in heating, indoor temp. is 20°C DB in heating, outdoor temp. is 7°C DB/6°C WB



# MRV5-H

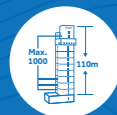
DC INVERTER

3/380~415/50/60



AV08NMVETA  
AV10NMVETA  
AV12NMVETA  
AV14NMVETA  
AV16NMVETA

AV18NMVETA  
AV20NMVETA  
AV22NMVETA  
AV24NMVETA  
AV26NMVETA



Total pipe length 1000m, height drop 110m



EVI compressors



Single module 26HP, maximum combination 104HP



Intelligent defrosting technology

Model			AV74NMVETA	AV76NMVETA	AV78NMVETA	AV80NMVETA	AV82NMVETA	AV84NMVETA	AV86NMVETA	
Combination model			AV26NMVETA	AV26NMVETA	AV26NMVETA	AV20NMVETA	AV20NMVETA	AV20NMVETA	AV20NMVETA	
			AV24NMVETA	AV26NMVETA	AV26NMVETA	AV20NMVETA	AV20NMVETA	AV20NMVETA	AV22NMVETA	
			AV24NMVETA	AV24NMVETA	AV26NMVETA	AV20NMVETA	AV20NMVETA	AV22NMVETA	AV22NMVETA	
			/	/	/	AV20NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	
Capacity	Capacity range	HP	74	76	78	80	82	84	86	
	Cooling	kW	209.5	215.0	220.5	224.0	229.5	235.0	240.5	
	Heating	kW	209.5	215.0	220.5	224.0	229.5	235.0	240.5	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	58.47	61.10	63.74	66.47	68.16	69.84	71.53
		Rated current	A	98.71	103.15	107.60	112.21	115.06	117.91	120.75
		Max power input	kW	100.97	103.51	106.05	115.64	118.55	121.46	124.37
		Max current	A	644.80	740.80	830.56	865.92	941.72	936.66	1104.00
		SEER		6.92	6.85	6.79	6.82	6.76	6.71	6.65
	Heating	ηs.c	%	274	271	269	270	267	265	263
		Rated power input	kW	59.35	62.11	64.87	56.93	58.84	60.74	62.65
		Rated current	A	103.20	108.00	112.80	98.99	102.31	105.62	108.93
		Max power input	kW	350.88	395.20	411.07	486.40	519.20	515.20	625.92
		Max current	A	584.22	658.01	684.44	809.86	864.47	857.81	1042.24
	Performance	SCOP		4.16	4.01	3.88	4.38	4.38	4.38	4.39
		ηs.h	%	164	157	152	172	172	172	173
Performance	Air flow (H)	m³/h	55000	56000	57000	68000	69000	70000	71000	
	Sound pressure level (H)	dB(A)	66.8	66.8	66.8	67	67	67	67	
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690	1410/750/1690+1410/750/1690+1410/750/1690	
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858	1485/850/1858+1485/850/1858+1485/850/1858	
	Net/Shipping weight	kg	385/410+385/410+385/410	385/410+385/410+385/410	385/410+385/410+385/410	385/410+385/410+385/410	385/410+385/410+385/410	385/410+385/410+385/410	385/410+385/410+385/410	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	
	Compressor quantity		ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	
	Compressor quantity		6INV	6INV	6INV	8INV	8INV	8INV	8INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	30	30	30	40	40	40	40	
	Refrigerant liquid pipe	mm	22.2	22.2	22.2	22.2	22.2	22.2	25.4	
	Refrigerant gas pipe	mm	44.5	44.5	44.5	44.5	44.5	44.5	50.8	
	Max. total pipe length	m	1000	1000	1000	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	
Max drop between I.U.&O.U. (O.U. down/up) *1	m	110/90	110/90	110/90	110/90	110/90	110/90	110/90		
Standard drop between I.U.&O.U. (O.U. up/down) *2	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40		
Max drop between I.U. *3	m	30	30	30	30	30	30	30		
Standard drop between I.U. *4	m	18	18	18	18	18	18	18		
External static pressure	Pa	110	110	110	110	110	110	110		
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	64	64	64	
Working temp.	Cooling	°C	-5-52	-5-52	-5-52	-5-52	-5-52	-5-52	-5-52	
	Heating	°C	-27-21	-27-21	-27-21	-27-21	-27-21	-27-21	-27-21	

Max drop between I.U.&O.U. \*1  
Standard drop between I.U.&O.U. \*2  
Max drop between I.U. \*3  
Standard drop between I.U. \*4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.  
Standard design and production in the factory.  
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.  
Standard design and production in the factory.

\* All the specifications are tested under nominal condition in cooling, indoor temp. is 27°C DB/19°C WB, outdoor temp. 35°C DB/24°C WB in heating, indoor temp. is 20°C DB in heating, outdoor temp. is 7°C DB/6°C WB



# MRV5-H

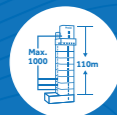
DC INVERTER

3/380~415/50/60



AV08NMVETA  
AV10NMVETA  
AV12NMVETA  
AV14NMVETA  
AV16NMVETA

AV18NMVETA  
AV20NMVETA  
AV22NMVETA  
AV24NMVETA  
AV26NMVETA



Total pipe length 1000m,  
height drop 110m



EVI compressors



Single module 26HP,  
maximum combination 104HP



Intelligent defrosting  
technology

Model			AV88NMVETA	AV90NMVETA	AV92NMVETA	AV94NMVETA	AV96NMVETA	AV98NMVETA	AV100NMVETA	AV102NMVETA	AV104NMVETA	
Combination model			AV22NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA	AV26NMVETA	AV26NMVETA	AV26NMVETA	
			AV22NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA	AV26NMVETA	AV26NMVETA	
			AV22NMVETA	AV22NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA	AV26NMVETA	
			AV22NMVETA	AV22NMVETA	AV22NMVETA	AV22NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV24NMVETA	AV26NMVETA	
Capacity	Capacity range	HP	88	90	92	94	96	98	100	102	104	
	Cooling	kW	246.0	252.5	259.0	265.5	272.0	277.5	283.0	288.5	294.0	
	Heating	kW	246.0	252.5	259.0	265.5	272.0	277.5	283.0	288.5	294.0	
Electrical parameters	Power supply	Ph/V/Hz	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	3/380-415/50/60	
	Cooling	Rated power input	kW	73.21	73.52	73.83	74.14	74.44	77.08	79.71	82.35	84.98
		Rated current	A	123.60	124.12	124.64	125.16	125.68	130.13	134.57	139.02	143.47
		Max power input	kW	127.28	128.27	129.26	130.25	131.24	133.78	136.32	138.86	141.40
		Max current	A	1289.60	1481.60	1661.12	1731.84	1883.45	1873.33	2208.00	2579.20	2963.20
		SEER		6.61	6.70	6.80	6.90	6.99	6.94	6.89	6.84	6.80
		ηs.c	%	261	265	269	273	277	275	273	271	269
	Heating	Rated power input	kW	64.55	67.28	70.00	72.73	75.45	78.21	80.97	83.73	86.50
		Rated current	A	112.24	116.98	121.72	126.46	131.20	136.00	140.80	145.60	150.40
		Max power input	kW	701.76	790.40	822.14	972.80	1038.40	1030.40	1251.84	1403.52	1580.80
		Max current	A	1168.43	1316.02	1368.87	1619.71	1728.94	1715.62	2084.48	2336.86	2632.03
		SCOP		4.39	4.38	4.36	4.35	4.34	4.20	4.08	3.98	3.88
		ηs.h	%	173	172	171	171	170	165	160	156	152
Performance	Air flow (H)	m³/h	72000	72000	72000	72000	72000	73000	74000	75000	76000	
	Sound pressure level (H)	dB(A)	67	67.5	67.5	68	68	68	68	68	68	
Installation	External dimensions(W/D/H)	mm	1410/750/1690+1410/750/1690+1410/750/1690+1410/750/1690									
	Shipping dimensions(W/D/H)	mm	1485/850/1858+1485/850/1858+1485/850/1858+1485/850/1858									
	Net/Shipping weight	kg	385/410+385/410+385/410+385/410									
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	
	Compressor quantity		8INV	8INV	8INV	8INV	8INV	8INV	8INV	8INV	8INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	40	40	40	40	40	40	40	40	40	
	Refrigerant liquid pipe	mm	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	
	Refrigerant gas pipe	mm	50.8	50.8	50.8	50.8	50.8	54.1	54.1	54.1	54.1	
Max.total pipe lenth	m	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Max. pipe length (Equivalent/Actual)	m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220		
Max drop between I.U.&O.U. (O.U. down/up) *1	m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90		
Standard drop between I.U.&O.U. (O.U. up/down) *2	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40		
Max drop between I.U. *3	m	30	30	30	30	30	30	30	30	30		
Standard drop between I.U. *4	m	18	18	18	18	18	18	18	18	18		
External static pressure	Pa	110	110	110	110	110	110	110	110	110		
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	64	64	64	64	64	
Working temp.	Cooling	°C	-5-52									
	Heating	°C	-27-21									

Max drop between I.U.&O.U. \*1  
Standard drop between I.U.&O.U. \*2  
Max drop between I.U. \*3  
Standard drop between I.U. \*4

If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.  
Standard design and production in the factory.  
If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.  
Standard design and production in the factory.

\*All the specifications are tested under nominal condition in cooling, indoor temp. is 27°C DB/19°C WB, Outdoor temp 35°C DB/24°C WB in heating, indoor temp. is 20°C DB in heating, outdoor temp. is 7°C DB/6°C WB