

## MRV5 DC INVERTER

# Intelligent Wireless Communication Technology



### ZigBee Wireless Communications

Zigbee wireless communication between units



### Cloud Service

Remote monitoring, data gathering, fault alarm, trouble prevention & trouble shooting



### Individual Controller

Colored screen, Individual & Group control



### Central Controller

Web server, floor navigation, independent billing



### Building Management Systems

KNX, BACnet, modbus & lanworks protocols



### WiFi Control

## 2022 MRV Line-up

### Haier Commercial Air Conditioning

# MRV5 Features

## Commercial AC

LEADERSHIP IN TECHNOLOGY	INSTALLATION FRIENDLY	RELIABILITY & COMFORT
<p><b>Maximum Single Module 28HP</b> Maximum Combination 112HP</p> 	<p><b>Automatic refrigerant recovery</b></p> <p>The refrigerant in indoor can be automatically recycled into the outdoor via a push button on the outdoor PCB. No need to close the unload valve, saving time and effort.</p> 	<p><b>Automatic dust clean</b></p> <p>Condenser fan will reverse the rotation to clean the dust for better efficiency and reliability in every 60 days</p> 
<p><b>Super efficiency with full DC inverter compressors</b></p> <p>Optimized design, intelligent control with full DC inverter compressors, DC fan motors and high efficiency heat exchanger give MRV 5 much higher efficiency in cooling and heating.</p> 	<p><b>Automatic oil balancing</b></p> <p>Without oil balancing pipe, the oil is balanced automatically. This simplifies system design and improves reliability.</p>  <p>No oil balancing pipe between outdoor units</p>	<p><b>High ambient temp. operation at 55°C</b></p> <p>With large volume DC inverter compressors and system optimization, stable operation at high ambient temp. is possible.</p> 
<p><b>Wireless Communication</b></p> <p>Global first ZigBee wireless communication for VRF indoor.</p> 	<p><b>Auto addressing indoor units</b></p> <p>Outdoor units can address indoor units automatically, greatly reducing labor.</p> 	<p><b>Quick Auto Re-Start</b></p> <p>When start up is within one hour to the last stop .Startup and reaching the setting target frequency in 80 seconds.</p> 
<p><b>Heat exchanger design</b></p> <p>Four way heat exchanger design from top to bottom for better heat exchange</p> 	<p><b>Easy access service door</b></p> <p>When maintenance is needed, the front panel can be pulled out like a door instead of being pulled down, by only three screws Labor are remarkably reduced.</p> 	<p><b>Precise temperature control at ±0.5°C</b></p> <p>The refrigerant volume adjusts automatically for precise temperature control, improving indoor comfort.</p> 





# MRV Outdoor Line-up



Commercial AC

## Highest EER Upto 4.5

### MRV 5 HEAT PUMP

SERIES	Power supply (Ph/V/Hz)	HP	8	10	12	14	16	18	20	22	24	26
		KW	25.2	28.0	33.5	40.0	45.0	50.4	56.0	61.5	68.0	73.5
MRV 5	3/380-415/50		AV08IMVEVA	AV10IMVEVA	AV12IMVEVA	AV14IMVEVA	AV16IMVEVA					
									AV18IMVEVA	AV20IMVEVA	AV22IMVEVA	AV24IMVEVA
			<b>Maximum combination: 4 modules</b>				<b>Maximum capacity: 104HP</b>					

### MRV 5C COOLING

SERIES	Power supply (Ph/V/Hz)	HP	8	10	12	14	16	18	20	22	24	26	28
		KW	25.2	28.0	33.5	40.0	45.0	50.4	56.0	61.5	68.0	73.5	78
MRV 5	3/380-415/50		AV08NMVQVA	AV10NMVQVA	AV12NMVQVA	AV14NMVQVA	AV16NMVQVA	AV18NMVQVA					
										AV20NMVQVA	AV22NMVQVA	AV24NMVQVA	AV26NMVQVA
			<b>Maximum combination: 4 modules</b>				<b>Maximum capacity: 112HP</b>						

### MRV S HEAT PUMP

SERIES	Power supply (Ph/V/Hz)	HP	3	4	5	6	7	8	10	12
		kW	8.0	12.6	14.0	15.5	18.0	22.6	28.0	33.5
MRV S <sup>1</sup>	1/220-240/50			AU042FPERA	AU052FPERA	AU062FPERA				
	3/380-415/50			AU04IFPERA	AU05IFPERA	AU06IFPERA				
	3/380-400/50							AV08NMSETA	AV10NMSETA	AV12NMSETA

Product lineup focuses:

- 1 Full range VRF solution.
- 2 Full DC inverter technology, wide design possibility ,easy installation.

# MRV Indoor Line-up

## Commercial AC

Type	KBTU/h kW	Product Images	Model Number	5	7	9	12	16	18	24	28	30	38	42	48	54	72	96
				1.5	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	12.5	14.0	16.0	22.6	28.0
1 Way Cassette			AB**2MAERA	●	●	●	●											
2 Way Cassette			AB**2MBERA		●	●	●	●	●									
Mini 4 Way Cassette			AB**2MCERA(M)	●	●	●	●	●	●									
Round Flow 4 Way Cassette			AB**2MRERA		●	●	●	●	●	●	●	●			●	●		
4 Way Cassette			AB**2MCERA	●	●	●	●	●	●	●	●	●			●			
High Wall			AS**2MNERA AS**2MNERAB	●	●	●	●	●	●	●	●	●						
			AS**2MFERA AS**2MFERAB	●	●	●	●	●	●	●	●							
Slim Duct(30Pa)			AD**2MSERA(D) AD**2MSERA	●	●	●	●	●	●	●								
Medium ESP Duct (50/100Pa)			AD**2MJERA		●	●	●	●	●	●	●							
Medium ESP Duct (80/120Pa)			AD**2MJERX									●	●		●			
Constant Air Volume Duct(0-200Pa)			AD**2MQERA		●	●	●	●	●	●		●	●	●	●	●		
High ESP Duct (20-200Pa)			AD**2MJERAD	●	●	●	●	●	●	●	●	●			●			
High ESP Duct (100-250Pa)			AD**2MTERAD														●	●
Console			AF*2MAERA	●	●	●	●		●									
Convertible			AC**2MDERA				●	●	●	●	●	●	●		●			
Built-in Floor Standing			AE**2MLERA		●	●	●	●	●	●								
Tower (integrated with EEV box MS1-060A to match)			AP48KCIERA												●			
Fresh Air Duct			AD**2MJERF AD**2MTERF													●	●	●
HRV (Heat Reclaim Ventilation) (ERV**ANW)			150m <sup>3</sup> /h 260m <sup>3</sup> /h				500m <sup>3</sup> /h 800m <sup>3</sup> /h 1000m <sup>3</sup> /h						SV200BNN (fresh air unit)					

### Product lineup focuses:

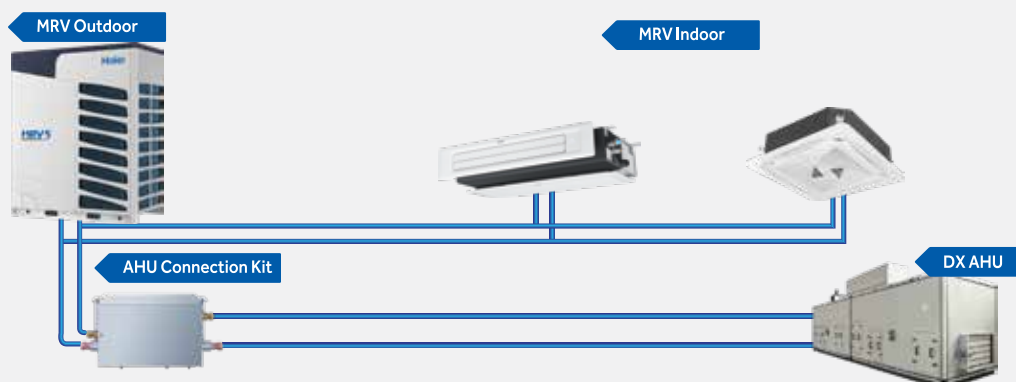
- 1 Full range VRF solution.
- 2 Two line up: High end & standard in cassette/duct/high wall.
- 3 Constant air Volume technology, airflow adjust to rated airflow automatically, ESP can reach upto 250 pa.

# MRV AHU Kit Line-up

Commercial AC

## System Introduction

Haier offers a range of connection kit to connect MRV outdoor units to DX air handling units.



## System Application

Provide a solution for big space to cool down, supply fresh air, MRV outdoor units match with air handling units. Meet the requirement of law in EU, i.e. for every working place it has to supply minimum 25 m<sup>3</sup>/h fresh air. So it solves the HVAC requirement of every commercial building.

High rise building without podium



High rise building with podium

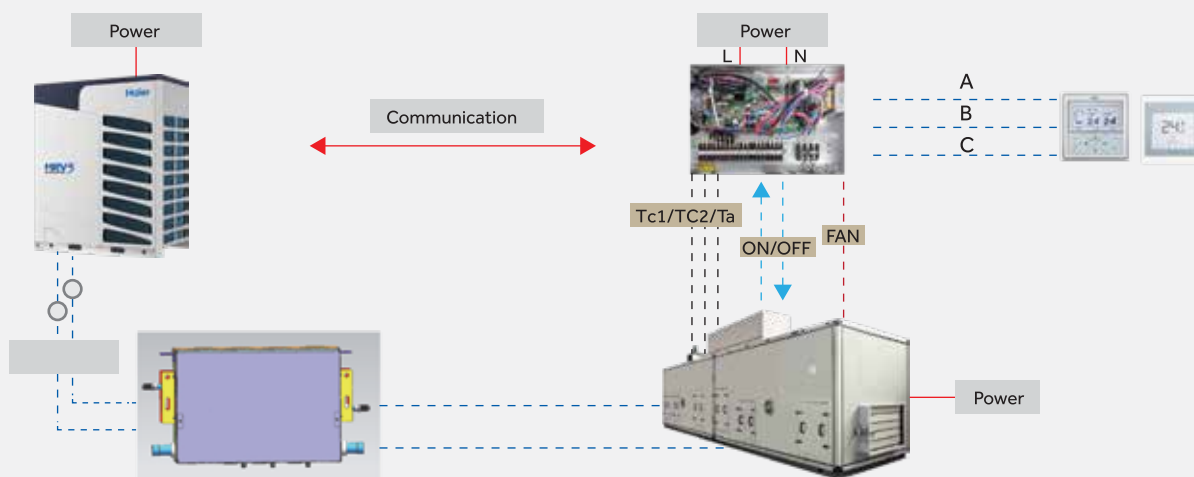


Single layer with a large area



## AHU Connection Kit Control

System control



## System Line-up

**AHU Connection Kit**

- 1.25HP (3.5KW) <Connected AHU capa. ≤2.5HP (7.0KW)
- 2.5HP (7.0KW) <Connected AHU capa. ≤5HP (14.0KW)
- 5HP(14KW) <Connected AHU capa. ≤10HP(28KW)
- 10.0HP (28.0KW) <Connected AHU capa. ≤20HP(56.0KW)
- 20HP(56.0KW) <Connected AHU capa. ≤26HP(73.0KW)



# Control System

Commercial AC

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Inspired Living



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