



# MRV5

DC INVERTER



011 Features & Benefits

014 MRV 5 Outdoor

# FEATURES & BENEFITS

## Super comfort

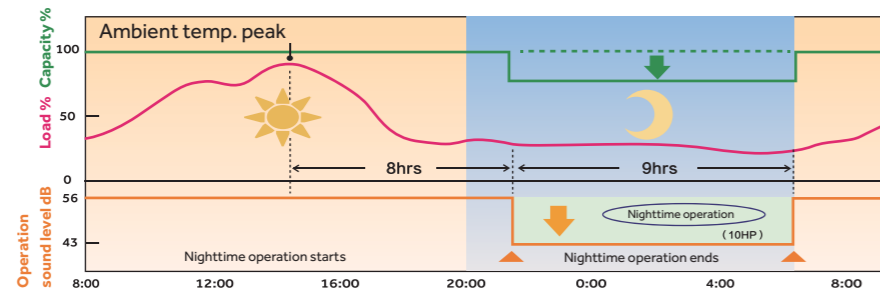
### Quick cooling and heating

Start up and reaching maximum output in short time, realizing quick cooling and heating.



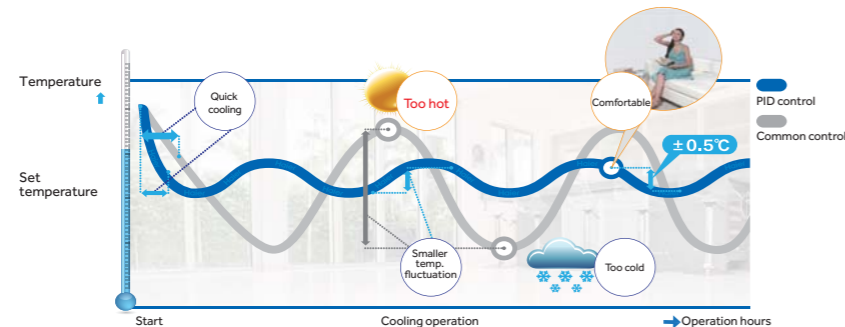
### Nighttime quiet operation at 10dB(A) reduced sound level

When quiet operation is required, this function can be configured by outdoor PCB to greatly reduce sound level.



### Precise temperature control at $\pm 0.5^{\circ}\text{C}$

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



### Intelligent defrosting technology

According to system status to intelligently judge if defrosting is required, improving indoor comfort.



# MRV 5 T1 380~415V



AV08IMVEVA  
AV10IMVEVA  
AV12IMVEVA  
AV14IMVEVA  
AV16IMVEVA



AV18IMVEVA  
AV20IMVEVA  
AV22IMVEVA  
AV24IMVEVA  
AV26IMVEVA

Model		AV08IMVEVA	AV10IMVEVA	AV12IMVEVA	AV14IMVEVA	AV16IMVEVA
Combination model		/	/	/	/	/
Capacity	Capacity range	HP	8	10	12	14
	Cooling	kW	25.2	28.0	33.5	40.0
	Heating	kW	27.0	31.5	37.5	45.0
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
Electrical parameters	Cooling	Rated power input	kW	5.60	6.80	8.40
		Max power input	kW	12.000	12.900	13.800
		Rated current	A	9.45	11.48	14.18
	Heating	Max current	A	20.26	21.78	23.30
		Rated power input	kW	5.20	6.30	8.00
		Max power input	kW	10.90	12.20	12.50
EER			4.50	4.12	3.99	3.67
COP			5.19	5.00	4.69	4.37
SEER			7.50	7.33	7.20	6.85
SCOP			5.50	5.45	5.30	5.12
Performance	Air flow (H)	m <sup>3</sup> /h	11000	11000	12000	13500
	Sound pressure level (H)	dB(A)	56	56	59	59
	Sound power level (H)	dB(A)	67	67	70	70
External dimensions(W/D/H)		mm	980/750/1690			
Shipping dimensions(W/D/H)		mm	1070/850/1838			
Net/Shipping weight		kg	224/250		244/270	
Compressor type			DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL
Compressor brand			MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
Compressor quantity			1INV	1INV	1INV	1INV
Refrigerant type			R410A	R410A	R410A	R410A
Refrigerant charge		kg	8.5	8.5	8.5	10
Refrigerant liquid pipe		mm	9.52	9.52	12.7	12.7
Refrigerant gas pipe		mm	19.05	22.22	25.4	25.4
Max. total pipe length		m	1000	1000	1000	1000
Max. pipe length (Equivalent/Actual)		m	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
Standard drop between I.U. & O.U. (O.U. up/down) *2		m	50/40	50/40	50/40	50/40
Max drop between I.U. *3		m	30	30	30	30
Standard drop between I.U. *4		m	18	18	18	18
External static pressure		Pa	110	110	110	110
Connection ratio						
Connectable indoor unit ratio		%	50-130	50-130	50-130	50-130
Maximum number of indoor units			13	16	20	27
Working temp.						
Cooling		$^{\circ}\text{C}$	-5-50			
Heating		$^{\circ}\text{C}$	-23-21			

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  
\* All the specifications are tested under nominal condition (In cooling, indoor temp. is 27 $^{\circ}\text{C}$  DB/19 $^{\circ}\text{C}$  WB; Outdoor temp 35 $^{\circ}\text{C}$  DB/24 $^{\circ}\text{C}$  WB; In heating, indoor temp. is 20 $^{\circ}\text{C}$  DB; in heating, outdoor temp. is 7 $^{\circ}\text{C}$  DB/6 $^{\circ}\text{C}$  WB)

# MRV 5 T1 380~415V



AV08IMVEVA  
AV10IMVEVA  
AV12IMVEVA  
AV14IMVEVA  
AV16IMVEVA



AV18IMVEVA  
AV20IMVEVA  
AV22IMVEVA  
AV24IMVEVA  
AV26IMVEVA

Model			AV18IMVEVA	AV20IMVEVA	AV22IMVEVA	AV24IMVEVA	AV26IMVEVA	
Combination model			/	/	/	/	/	
Capacity								
	Capacity range	HP	18	20	22	24	26	
	Cooling	kW	50.4	56.0	61.5	68.0	73.5	
	Heating	kW	56.5	61.5	69.0	73.0	82.5	
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	
	Cooling	Rated power input	kW	14.30	15.10	16.50	17.60	18.80
		Max power input	kW	21.400	25.100	28.500	29.100	33.000
		Rated current	A	24.14	25.49	27.86	29.71	31.74
		Max current	A	36.13	42.37	48.11	49.13	55.80
	Heating	Rated power input	kW	13.40	14.60	15.40	16.80	17.70
		Max power input	kW	17.70	22.70	25.50	26.50	30.40
		Rated current	A	22.62	24.65	26.00	28.36	29.88
		Max current	A	29.88	38.32	43.05	44.74	51.32
	EER		3.52	3.71	3.73	3.86	3.91	
	COP		4.22	4.21	4.48	4.35	4.66	
SEER		6.50	6.35	6.20	6.03	5.86		
SCOP		4.65	4.55	4.40	4.26	4.15		
Performance								
	Air flow (H)	m <sup>3</sup> /h	17000	17000	18000	18000	19000	
	Sound pressure level (H)	dB(A)	61	61	61	62	62	
	Sound power level (H)	dB(A)	72	72	72	73	73	
Installation								
	External dimensions(W/D/H)	mm	1410/750/1690					
	Shipping dimensions(W/D/H)	mm	1515/850/1838					
	Net/Shipping weight	kg	287/317	370/400				
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		DAIKIN	DAIKIN	DAIKIN	DAIKIN	DAIKIN	
	Compressor quantity		1INV	2INV	2INV	2INV	2INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	10	10	10	10	10	
	Refrigerant liquid pipe	mm	15.88	15.88	15.88	15.88	15.88	
	Refrigerant gas pipe	mm	28.58	28.58	28.58	28.58	28.58	
	Max. total pipe length	m	1000	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	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	
	Standard drop between I.U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	30	30	
	Standard drop between I.U *4	m	18	18	18	18	18	
	External static pressure	Pa	110	110	110	110	110	
Connection ratio								
	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		30	33	36	40	43	
Working temp.								
	Cooling	°C	-5~50					
	Heating	°C	-23~21					

\*1 Max drop between I.U.&O.U \*1  
Standard design and production in the factory.  
\*2 Max drop between I.U.&O.U \*2  
Standard design and production in the factory.  
\*3 Max drop between I.U. \*3  
Standard design and production in the factory.  
\*4 Max drop between I.U. \*4  
Standard design and production in the factory.

- Full DC inverter compressors
- Maximum Single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110 m

Model			AV28IMVEVA	AV30IMVEVA	AV32IMVEVA	AV34IMVEVA	
Combination model			AV14IMVEVA	AV14IMVEVA	AV16IMVEVA	AV16IMVEVA	
Capacity							
	Capacity range	HP	28	30	32	34	
	Cooling	kW	80.0	85.0	90.0	95.4	
	Heating	kW	90.0	95.0	100.0	106.5	
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	
	Cooling	Rated power input	kW	21.80	22.70	23.60	26.10
		Max power input	kW	32.800	35.600	38.400	40.600
		Rated current	A	36.80	38.32	39.84	44.06
		Max current	A	55.37	60.10	64.83	68.54
	Heating	Rated power input	kW	20.60	21.50	22.40	24.60
		Max power input	kW	30.20	33.50	36.80	36.10
		Rated current	A	34.78	36.30	37.82	41.53
		Max current	A	50.98	56.55	62.13	60.94
	EER		3.67	3.74	3.81	3.66	
	COP		4.37	4.42	4.46	4.33	
SEER		6.97	6.71	6.50	6.56		
SCOP		5.15	4.81	4.55	4.60		
Performance							
	Air flow (H)	m <sup>3</sup> /h	27000	27000	27000	30500	
	Sound pressure level (H)	dB(A)	62	62.5	63	63.5	
	Sound power level (H)	dB(A)	73	73.5	74	74.5	
Installation							
	External dimensions(W/D/H)	mm	980×750×1690+980×750×1690			980×750×1690+1410×750×1690	
	Shipping dimensions(W/D/H)	mm	1070/850/1838+1070/850/1838			1070/850/1838+1515/850/1838	
	Net/Shipping weight	kg	244/270+244/270	244/270+244/270		244/270+287/317	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		DAIKIN	DAIKIN	DAIKIN	DAIKIN	
	Compressor quantity		2INV	2INV	2INV	2INV	
	Refrigerant type		R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	20	20	20	20	
	Refrigerant liquid pipe	mm	15.88	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	28.58	31.8	31.8	31.8	
	Max. total pipe length	m	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	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	
	Standard drop between I.U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	30	
	Standard drop between I.U *4	m	18	18	18	18	
	External static pressure	Pa	110	110	110	110	
Connection ratio							
	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		47	50	53	56	
Working temp.							
	Cooling	°C	-5~50				
	Heating	°C	-23~21				

\* 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

# MRV 5 T1 380~415V



AV08IMVEVA  
AV10IMVEVA  
AV12IMVEVA  
AV14IMVEVA  
AV16IMVEVA



AV18IMVEVA  
AV20IMVEVA  
AV22IMVEVA  
AV24IMVEVA  
AV26IMVEVA

- Full DC inverter compressors
- Maximum Single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110 m

Model			AV36IMVEVA	AV38IMVEVA	AV40IMVEVA	AV42IMVEVA	AV44IMVEVA	
Combination model			AV18IMVEVA	AV18IMVEVA	AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	
			AV18IMVEVA	AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	AV22IMVEVA	
			/	/	/	/	/	
			/	/	/	/	/	
Capacity	Capacity range	HP	36	38	40	42	44	
	Cooling	kW	100.8	106.4	112.0	117.5	123.0	
	Heating	kW	113.0	118.0	123.0	130.5	138.0	
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	
	Cooling	Rated power input	kW	28.60	29.40	30.20	31.60	33.00
		Max power input	kW	42.800	46.500	50.200	53.600	57.000
		Rated current	A	48.28	49.63	50.98	53.35	55.71
		Max current	A	72.26	78.50	84.75	90.49	96.23
	Heating	Rated power input	kW	26.80	28.00	29.20	30.00	30.80
		Max power input	kW	35.40	40.40	45.40	48.20	51.00
		Rated current	A	45.24	47.27	49.30	50.65	52.00
		Max current	A	59.76	68.20	76.64	81.37	86.10
	EER			3.52	3.62	3.71	3.72	3.73
	COP			4.22	4.21	4.21	4.35	4.48
	SEER			6.60	6.51	6.43	6.34	6.26
	SCOP			4.65	4.61	4.58	4.49	4.42
	Performance	Air flow (H)	m <sup>3</sup> /h	34000	34000	34000	35000	36000
		Sound pressure level (H)	dB(A)	64	64	64	64	64
Sound power level (H)		dB(A)	75	75	75	75	75	
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690					
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838					
	Net/Shipping weight	kg	287/317+287/317	287/317+370/400	370/400+370/400	370/400+370/400	370/400+370/400	
	Compressor type		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	
	Compressor quantity		2INV	3INV	4INV	4INV	4INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	20	20	20	20	20	
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	38.1	38.1	38.1	38.1	38.1	
	Max. total pipe length	m	1000	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	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	
	Standard drop between I.U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	30	30	
	Standard drop between I.U *4	m	18	18	18	18	18	
	External static pressure	Pa	110	110	110	110	110	
	Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130
Maximum number of indoor units			59	63	64	64	64	
Working temp.	Cooling	°C	-5~50					
	Heating	°C	-23~21					

\*1 Max drop between I.U.&O.U \*1  
Standard design and production in the factory.  
\*2 Standard drop between I.U.&O.U \*2  
Standard design and production in the factory.  
\*3 Max drop between I.U. \*3  
Standard design and production in the factory.  
\*4 Standard drop between I.U. \*4  
Standard design and production in the factory.

Model			AV46IMVEVA	AV48IMVEVA	AV50IMVEVA	AV52IMVEVA	
Combination model			AV22IMVEVA	AV24IMVEVA	AV24IMVEVA	AV26IMVEVA	
			AV24IMVEVA	AV24IMVEVA	AV26IMVEVA	AV26IMVEVA	
			/	/	/	/	
			/	/	/	/	
Capacity	Capacity range	HP	46	48	50	52	
	Cooling	kW	129.5	136.0	141.5	147.0	
	Heating	kW	142.0	146.0	155.5	165.0	
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	
	Cooling	Rated power input	kW	34.10	35.20	36.40	37.60
		Max power input	kW	57.600	58.200	62.100	66.000
		Rated current	A	57.57	59.42	61.45	63.48
		Max current	A	97.24	98.25	104.93	111.60
	Heating	Rated power input	kW	32.20	33.60	34.50	35.40
		Max power input	kW	52.00	53.00	56.90	60.80
		Rated current	A	54.36	56.72	58.24	59.76
		Max current	A	87.79	89.48	96.06	102.64
	EER			3.80	3.86	3.89	3.91
	COP			4.41	4.35	4.51	4.66
	SEER			6.17	6.09	5.99	5.91
	SCOP			4.34	4.27	4.21	4.16
	Performance	Air flow (H)	m <sup>3</sup> /h	36000	36000	37000	38000
		Sound pressure level (H)	dB(A)	64.5	65	65	65
Sound power level (H)		dB(A)	75.5	76	76	76	
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690				
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838				
	Net/Shipping weight	kg	370/400+370/400	370/400+370/400	370/400+370/400	370/400+370/400	
	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		mitsubishi electric	mitsubishi electric	mitsubishi electric	mitsubishi electric	
	Compressor quantity		4INV	4INV	4INV	4INV	
	Refrigerant type		R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	20	20	20	20	
	Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05	
	Refrigerant gas pipe	mm	38.1	38.1	38.1	38.1	
	Max. total pipe length	m	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	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	
	Standard drop between I.U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	30	
	Standard drop between I.U *4	m	18	18	18	18	
	External static pressure	Pa	110	110	110	110	
	Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130
Maximum number of indoor units			64	64	64	64	
Working temp.	Cooling	°C	-5~50				
	Heating	°C	-23~21				

\* 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

# MRV 5 T1 380~415V



AV08IMVEVA  
AV10IMVEVA  
AV12IMVEVA  
AV14IMVEVA  
AV16IMVEVA



AV18IMVEVA  
AV20IMVEVA  
AV22IMVEVA  
AV24IMVEVA  
AV26IMVEVA

- Full DC inverter compressors
- Maximum Single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110 m

Model			AV54IMVEVA	AV56IMVEVA	AV58IMVEVA	AV60IMVEVA	
Combination model			AV18IMVEVA	AV18IMVEVA	AV18IMVEVA	AV20IMVEVA	
			AV18IMVEVA	AV18IMVEVA	AV20IMVEVA	AV20IMVEVA	
			AV18IMVEVA	AV20IMVEVA	AV20IMVEVA	AV20IMVEVA	
			/	/	/	/	
Capacity	Capacity range	HP	54	56	58	60	
	Cooling	kW	151.2	156.8	162.4	168.0	
	Heating	kW	169.5	174.5	179.5	184.5	
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	
	Cooling	Rated power input	kW	42.90	43.70	44.50	45.30
		Max power input	kW	64.200	67.900	71.600	75.300
		Rated current	A	72.42	73.77	75.13	76.48
		Max current	A	108.38	114.63	120.88	127.12
	Heating	Rated power input	kW	40.20	41.40	42.60	43.80
		Max power input	kW	53.10	58.10	63.10	68.10
		Rated current	A	67.87	69.89	71.92	73.94
		Max current	A	89.64	98.08	106.53	114.97
	EER		3.52	3.59	3.65	3.71	
	COP		4.22	4.21	4.21	4.21	
	SEER		6.63	6.56	6.50	6.45	
	SCOP		4.65	4.63	4.60	4.58	
	Performance	Air flow (H)	m <sup>3</sup> /h	51000	51000	51000	51000
		Sound pressure level (H)	dB(A)	65.8	65.8	65.8	65.8
Sound power level (H)		dB(A)	76.5	76.5	76.5	76.5	
External dimensions(W/D/H)		mm	1410×750×1690+1410×750×1690+1410×750×1690				
Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838					
Net/Shipping weight	kg	287/317+287/317+287/317	287/317+287/317+370/400	287/317+370/400+370/400	370/400+370/400+370/400		
Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL		
Compressor brand		DAIKIN	DAIKIN	DAIKIN	DAIKIN		
Compressor quantity		3INV	4INV	5INV	6INV		
Refrigerant type		R410A	R410A	R410A	R410A		
Refrigerant charge	kg	30	30	30	30		
Refrigerant liquid pipe	mm	19.05	19.05	19.05	19.05		
Refrigerant gas pipe	mm	38.1	38.1	41.3	41.3		
Max. total pipe length	m	1000	1000	1000	1000		
Max. pipe length (Equivalent/Actual)	m	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		
Standard drop between I.U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40		
Max drop between I.U *3	m	30	30	30	30		
Standard drop between I.U *4	m	18	18	18	18		
External static pressure	Pa	110	110	110	110		
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	
Working temp.	Cooling	°C	-5-50				
	Heating	°C	-23-21				

\*1 Max drop between I.U.&O.U \*1  
Standard design and production in the factory.  
\*2 Max drop between I.U.&O.U \*2  
Standard design and production in the factory.  
\*3 Max drop between I.U. \*3  
Standard design and production in the factory.  
\*4 Max drop between I.U. \*4  
Standard design and production in the factory.

Model			AV62IMVEVA	AV64IMVEVA	AV66IMVEVA	AV68IMVEVA	
Combination model			AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	
			AV20IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	
			AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	AV24IMVEVA	
			/	/	/	/	
Capacity	Capacity range	HP	62	64	66	68	
	Cooling	kW	173.5	179.0	184.5	191.0	
	Heating	kW	192.0	199.5	207.0	211.0	
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	
	Cooling	Rated power input	kW	46.70	48.10	49.50	50.60
		Max power input	kW	78.700	82.100	85.500	86.100
		Rated current	A	78.84	81.20	83.57	85.42
		Max current	A	132.86	138.60	144.34	145.35
	Heating	Rated power input	kW	44.60	45.40	46.20	47.60
		Max power input	kW	70.90	73.70	76.50	77.50
		Rated current	A	75.29	76.64	78.00	80.36
		Max current	A	119.69	124.42	129.15	130.84
	EER		3.72	3.72	3.73	3.77	
	COP		4.30	4.39	4.48	4.43	
	SEER		6.39	6.33	6.28	6.22	
	SCOP		4.52	4.47	4.42	4.37	
	Performance	Air flow (H)	m <sup>3</sup> /h	52000	53000	54000	54000
		Sound pressure level (H)	dB(A)	65.8	65.8	65.8	66
Sound power level (H)		dB(A)	76.5	76.5	76.5	77	
External dimensions(W/D/H)		mm	1410×750×1690+1410×750×1690+1410×750×1690				
Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838					
Net/Shipping weight	kg	370/400+370/400+370/400					
Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL		
Compressor brand		DAIKIN	DAIKIN	DAIKIN	DAIKIN		
Compressor quantity		6INV	6INV	6INV	6INV		
Refrigerant type		R410A	R410A	R410A	R410A		
Refrigerant charge	kg	30	30	30	30		
Refrigerant liquid pipe	mm	19.05	19.05	19.05	22.2		
Refrigerant gas pipe	mm	41.3	41.3	41.3	44.5		
Max. total pipe length	m	1000	1000	1000	1000		
Max. pipe length (Equivalent/Actual)	m	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		
Standard drop between I.U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40		
Max drop between I.U *3	m	30	30	30	30		
Standard drop between I.U *4	m	18	18	18	18		
External static pressure	Pa	110	110	110	110		
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	
Working temp.	Cooling	°C	-5-50				
	Heating	°C	-23-21				

\* 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, outdoor temp. is 7°C DB/6°C WB

# MRV 5 T1 380~415V



AV08IMVEVA  
AV10IMVEVA  
AV12IMVEVA  
AV14IMVEVA  
AV16IMVEVA



AV18IMVEVA  
AV20IMVEVA  
AV22IMVEVA  
AV24IMVEVA  
AV26IMVEVA

- Full DC inverter compressors
- Maximum Single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110m

Model			AV70IMVEVA	AV72IMVEVA	AV74IMVEVA	AV76IMVEVA	AV78IMVEVA	
Combination model			AV22IMVEVA	AV24IMVEVA	AV26IMVEVA	AV26IMVEVA	AV26IMVEVA	
			AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV26IMVEVA	AV26IMVEVA	
			AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV26IMVEVA	
			/	/	/	/	/	
Capacity	Capacity range	HP	70	72	74	76	78	
	Cooling	kW	197.5	204.0	209.5	215.0	220.5	
	Heating	kW	215.0	219.0	228.5	238.0	247.5	
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	
	Cooling	Rated power input	kW	51.70	52.80	54.00	55.20	56.40
		Max power input	kW	86.700	87.300	91.200	95.100	99.000
		Rated current	A	87.28	89.14	91.16	93.19	95.21
		Max current	A	146.37	147.38	154.05	160.73	167.40
		Rated power input	kW	49.00	50.40	51.30	52.20	53.10
	Heating	Max power input	kW	78.50	79.50	83.40	87.30	91.20
		Rated current	A	82.72	85.09	86.61	88.12	89.64
		Max current	A	132.52	134.21	140.80	147.38	153.96
	EER		3.82	3.86	3.88	3.89	3.91	
	COP		4.39	4.35	4.45	4.56	4.66	
	SEER		6.16	6.10	6.04	5.98	5.92	
	SCOP		4.32	4.27	4.23	4.20	4.16	
	Performance	Air flow (H)	m <sup>3</sup> /h	54000	54000	55000	56000	57000
		Sound pressure level (H)	dB(A)	66.5	66.8	66.8	66.8	66.8
Sound power level (H)		dB(A)	77.5	77.8	77.8	77.8	77.7	
Installation	External dimensions(W/D/H)	mm	1410×750×1690+1410×750×1690+1410×750×1690					
	Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838					
	Net/Shipping weight	kg	370/400+370/400+370/400					
	Compressor type		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	
	Compressor quantity		6INV	6INV	6INV	6INV	6INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	30	30	30	30	30	
	Refrigerant liquid pipe	mm	22.2	22.2	22.2	22.2	22.2	
	Refrigerant gas pipe	mm	44.5	44.5	44.5	44.5	44.5	
	Max. total pipe length	m	1000	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	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	
	Standard drop between I.U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	30	30	
Standard drop between I.U *4	m	18	18	18	18	18		
External static pressure	Pa	110	110	110	110	110		
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	64	
Working temp.	Cooling	°C	-5~50					
	Heating	°C	-23~21					

\*1 Max drop between I.U.&O.U \*1  
Standard design and production in the factory.  
\*2 Max drop between I.U.&O.U \*2  
Standard design and production in the factory.  
\*3 Max drop between I.U. \*3  
Standard design and production in the factory.  
\*4 Max drop between I.U. \*4  
Standard design and production in the factory.

Model			AV80IMVEVA	AV82IMVEVA	AV84IMVEVA	AV86IMVEVA	AV88IMVEVA	
Combination model			AV20IMVEVA	AV20IMVEVA	AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	
			AV20IMVEVA	AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	AV22IMVEVA	
			AV20IMVEVA	AV20IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	
			AV20IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	
Capacity	Capacity range	HP	80	82	84	86	88	
	Cooling	kW	224.0	229.5	235.0	240.5	246.0	
	Heating	kW	246.0	253.5	261.0	268.5	276.0	
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	
	Cooling	Rated power input	kW	60.40	61.80	63.20	64.60	66.00
		Max power input	kW	100.400	103.800	107.200	110.600	114.000
		Rated current	A	101.97	104.33	106.69	109.06	111.42
		Max current	A	169.50	175.24	180.98	186.72	192.46
		Rated power input	kW	58.40	59.20	60.00	60.80	61.60
	Heating	Max power input	kW	90.80	93.60	96.40	99.20	102.00
		Rated current	A	98.59	99.94	101.29	102.64	103.99
		Max current	A	153.29	158.02	162.74	167.47	172.20
	EER		3.71	3.71	3.72	3.72	3.73	
	COP		4.21	4.28	4.35	4.42	4.48	
	SEER		6.46	6.41	6.37	6.33	6.29	
	SCOP		4.58	4.53	4.49	4.46	4.43	
	Performance	Air flow (H)	m <sup>3</sup> /h	68000	69000	70000	71000	72000
		Sound pressure level (H)	dB(A)	67	67	67	67	67
Sound power level (H)		dB(A)	78	78	78	78	78	
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	1515/850/1838+1515/850/1838+1515/850/1838+1515/850/1838					
	Net/Shipping weight	kg	370/400+370/400+370/400+370/400					
	Compressor type		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	
	Compressor quantity		8INV	8INV	8INV	8INV	8INV	
	Refrigerant type		R410A	R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	40	40	40	40	40	
	Refrigerant liquid pipe	mm	22.2	22.2	22.2	25.4	25.4	
	Refrigerant gas pipe	mm	44.5	44.5	44.5	50.8	50.8	
	Max. total pipe length	m	1000	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	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	
	Standard drop between I.U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	30	30	
Standard drop between I.U *4	m	18	18	18	18	18		
External static pressure	Pa	110	110	110	110	110		
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	64	
Working temp.	Cooling	°C	-5~50					
	Heating	°C	-23~21					

\* 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

# MRV 5 T1 380~415V



AV08IMVEVA  
AV10IMVEVA  
AV12IMVEVA  
AV14IMVEVA  
AV16IMVEVA



AV18IMVEVA  
AV20IMVEVA  
AV22IMVEVA  
AV24IMVEVA  
AV26IMVEVA

- Full DC inverter compressors
- Maximum Single module 26HP
- Maximum combination 104HP
- Total pipe length 1000m
- Height drop 110 m

Model			AV90IMVEVA	AV92IMVEVA	AV94IMVEVA	AV96IMVEVA	
Combination model			AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	
			AV22IMVEVA	AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	
			AV22IMVEVA	AV22IMVEVA	AV24IMVEVA	AV24IMVEVA	
			AV22IMVEVA	AV22IMVEVA	AV22IMVEVA	AV24IMVEVA	
Capacity	Capacity range	HP	90	92	94	96	
	Cooling	kW	252.5	259.0	265.5	272.0	
	Heating	kW	280.0	284.0	288.0	292.0	
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	
	Cooling	Rated power input	kW	67.10	68.20	69.30	70.40
		Max power input	kW	114.600	115.200	115.800	116.400
		Rated current	A	113.28	115.14	116.99	118.85
		Max current	A	193.47	194.48	195.49	196.51
	Heating	Rated power input	kW	63.00	64.40	65.80	67.20
		Max power input	kW	103.00	104.00	105.00	106.00
		Rated current	A	106.36	108.72	111.08	113.45
		Max current	A	173.89	175.57	177.26	178.95
	EER		3.76	3.80	3.83	3.86	
	COP		4.44	4.41	4.38	4.35	
	SEER		6.24	6.19	6.15	6.11	
	SCOP		4.38	4.35	4.31	4.27	
	Performance	Air flow (H)	m <sup>3</sup> /h	72000	72000	72000	72000
		Sound pressure level (H)	dB(A)	67.5	67.5	68	68
Sound power level (H)		dB(A)	78.5	78.5	78.8	79	
External dimensions(W/D/H)		mm	1410×750×1690+1410×750×1690+1410×750×1690+1410×750×1690				
Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838+1515/850/1838					
Net/Shipping weight	kg	370/400+370/400+370/400+370/400					
Installation	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	
	Compressor quantity		8INV	8INV	8INV	8INV	
	Refrigerant type		R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	40	40	40	40	
	Refrigerant liquid pipe	mm	25.4	25.4	25.4	25.4	
	Refrigerant gas pipe	mm	50.8	50.8	50.8	50.8	
	Max. total pipe length	m	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	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	
	Standard drop between I.U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	30	
	Standard drop between I.U *4	m	18	18	18	18	
	External static pressure	Pa	110	110	110	110	
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	
Working temp.	Cooling	°C	-5-50				
	Heating	°C	-23-21				

\*1 Max drop between I.U.&O.U \*1  
Standard design and production in the factory.  
\*2 Standard drop between I.U.&O.U \*2  
Standard design and production in the factory.  
\*3 Max drop between I.U. \*3  
Standard design and production in the factory.  
\*4 Standard drop between I.U. \*4  
Standard design and production in the factory.

Model			AV98IMVEVA	AV100IMVEVA	AV102IMVEVA	AV104IMVEVA	
Combination model			AV26IMVEVA	AV26IMVEVA	AV26IMVEVA	AV26IMVEVA	
			AV24IMVEVA	AV26IMVEVA	AV26IMVEVA	AV26IMVEVA	
			AV24IMVEVA	AV24IMVEVA	AV26IMVEVA	AV26IMVEVA	
			AV24IMVEVA	AV24IMVEVA	AV24IMVEVA	AV26IMVEVA	
Capacity	Capacity range	HP	98	100	102	104	
	Cooling	kW	277.5	283.0	288.5	294.0	
	Heating	kW	301.5	311.0	320.5	330.0	
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	
	Cooling	Rated power input	kW	71.60	72.80	74.00	75.20
		Max power input	kW	120.300	124.200	128.100	132.000
		Rated current	A	120.88	122.90	124.93	126.95
		Max current	A	203.18	209.85	216.53	223.20
	Heating	Rated power input	kW	68.10	69.00	69.90	70.80
		Max power input	kW	109.90	113.80	117.70	121.60
		Rated current	A	114.97	116.49	118.01	119.53
		Max current	A	185.53	192.12	198.70	205.29
	EER		3.88	3.89	3.90	3.91	
	COP		4.43	4.51	4.59	4.66	
	SEER		6.06	6.01	5.97	5.93	
	SCOP		4.24	4.21	4.19	4.16	
	Performance	Air flow (H)	m <sup>3</sup> /h	73000	74000	75000	76000
		Sound pressure level (H)	dB(A)	68	68	68	68
Sound power level (H)		dB(A)	79	79	79	79	
External dimensions(W/D/H)		mm	1410×750×1690+1410×750×1690+1410×750×1690+1410×750×1690				
Shipping dimensions(W/D/H)	mm	1515/850/1838+1515/850/1838+1515/850/1838+1515/850/1838					
Net/Shipping weight	kg	370/400+370/400+370/400+370/400					
Installation	Compressor type		DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	DC INV. SCROLL	
	Compressor brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	
			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	
	Compressor quantity		8INV	8INV	8INV	8INV	
	Refrigerant type		R410A	R410A	R410A	R410A	
	Refrigerant charge	kg	40	40	40	40	
	Refrigerant liquid pipe	mm	25.4	25.4	25.4	25.4	
	Refrigerant gas pipe	mm	54.1	54.1	54.1	54.1	
	Max. total pipe length	m	1000	1000	1000	1000	
	Max. pipe length (Equivalent/Actual)	m	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	
	Standard drop between I.U.&O.U (O.U up/down) *2	m	50/40	50/40	50/40	50/40	
	Max drop between I.U *3	m	30	30	30	30	
	Standard drop between I.U *4	m	18	18	18	18	
	External static pressure	Pa	110	110	110	110	
Connection ratio	Connectable indoor unit ratio	%	50-130	50-130	50-130	50-130	
	Maximum number of indoor units		64	64	64	64	
Working temp.	Cooling	°C	-5-50				
	Heating	°C	-23-21				

\* 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

# PRODUCT LINE-UP

(Outdoor Units)

Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104
MRV 5	3/380-415/50 3/380-415/60																																																	
MRV 5-RC	3/380-415/50 3/380-415/60																																																	

Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
MRV IV (T1)	3/380-400/50 3/380-400/60																																	
	3/208-230/50 3/208-230/60																																	
MRV IV (T3)	3/380-400/50 3/380-400/60																																	













Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
MRV III <sup>PLUS</sup> (T1)	3/380-400/50 3/380-400/60																													

Series	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
MRV III (T1)	3/208-230/60																					
	3/460/60																					
MRV III (T3)	3/380-400/50 3/380-400/60																					
MRV III-RC	3/380-400/50 3/380-400/60 3/208-230/60																					






# PRODUCT LINE-UP



(Outdoor Units)

Series	HP	3	4	5	6	7	8	10	12		14	16	18	20	22	24	26	28	30	32	34	36	
MRV S'	1/220-240/50 1/220-240/60																						
	3/380-400/50 3/380-400/60																						
MRV S'' (T1)	1/220-240/50 1/220-240/60																						
	3/380-415/50 3/380-415/60																						
	3/380-400/50 3/380-400/60																						
MRV S'' (T3)	1/220-240/50 1/220-240/60																						
	3/380-415/50 3/380-415/60																						
MRV W	3/380-400/50(60) 3/208-230/60																						

## EASY MRV

MODEL	MS1-036A	MS1-060A	MS3-036A
Match with indoor	1 by 1	1 by 1	1 by 3
EASY MRV Connection Kit			
Capacity(Btu/h)	≤36K	36K<X≤60K	Every indoor capacity ≤36K
MRV series	MRV 5, MRV IV, MRV III PLUS, MRV III (2-Pipe), MRV S'', MRV S' (5/7HP)		

## DX AHU Connection Kit

MODEL	AH1-280A	AH1-560A
CAPACITY	14 ≤ x ≤ 28 kW	28 < x ≤ 56 kW
		
MRV series	MRV 5, MRV IV, MRV III PLUS, MRV III (2-Pipe), MRV S'' (8/10/12HP)	


# PRODUCT LINE-UP

(Indoor Units)

Series	KBTU/h kW			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		■	■	■	■	■	■	■	■	■	■		■			
Convertible		AC**2MCERA AC**2MFERA					■	■	■	■	■	■	■		■			
Low ESP Slim Duct (0/15/30Pa)		AD**2MSERA(D) AD**2MSERA		■	■	■	■	■	■	■								
Medium ESP Duct (50/96Pa)		AD**2MMERA							■	■	■	■	■		■			
Medium ESP Duct (50/100Pa) <span style="color: blue; font-weight: bold;">NEW</span>		AD**2MJERA		■	■	■	■	■	■	■	■	■	■		■			

# PRODUCT LINE-UP

(Indoor Units)

Series	KBTU/h kW		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
Medium ESP Duct (80/120Pa)		AD**2MNERA									■	■		■			
High ESP Duct (100/196Pa)		AD**2MHERA						■	■	■	■	■		■		■	■
High ESP Duct (0-200Pa)		AD**2MQERA		■	■	■	■	■	■	■	■	■	■	■	■		
Built-in Floor Standing		AE**2MLERA		■	■	■	■	■	■								
New Console		AF*2MAERA	■	■	■	■	■	■									
High Wall-N		AS**2MNERA	■	■	■	■	■	■	■	■							
		AS**2MFERA	■	■	■	■	■	■	■								
Fresh Air Duct		AD*2MPERA												■		■	■
HRV (Heat Reclaim Ventilation) (ERV0150/0260/0800/1000ANN)		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															