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I Overview

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1. DVM system series

1-1. What is DVM?

The DVM(Digital Variable Multi) air conditioning system is operated by a variable-capacity compressor and is accommodated by multiple evaporators (indoor units). It is touted as the next-generation modular system in the world of high-efficiency air conditioning. It has undoubtedly changed the face of cooling associated with high-storied buildings. It provides a broad range of different applications for settings such as offices, hotels and schools. With its easy installation and simple controlling system, the DVM will more than meet the demands of the air conditioning market.

<p>Duct type (Low silhouette)</p> 	<p>Duct type (Built-in)</p> 
<p>Duct type (High pressure)</p> 	<p>Wall-mounted type</p> 
<p>Floor standing type</p> 	<p>1-way cassette type</p> 
<p>Ceiling type</p> 	<p>4-way cassette type</p> 
<p>Outdoor unit</p> 	

1-2. Features of DVM

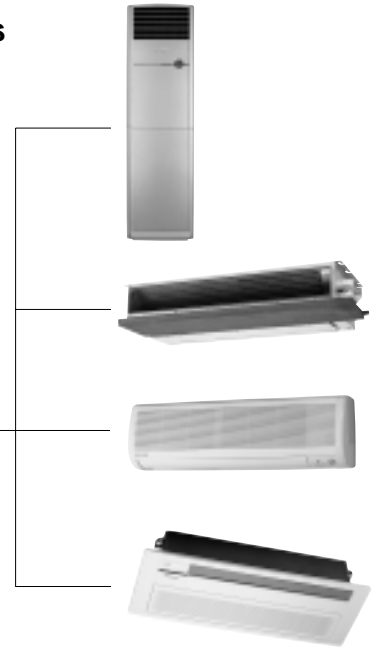
(1) Customized air conditioner

- 1) Up to 16 indoor units can be connected to one outdoor unit.
- 2) Indoor units can be combined by various methods, according to each room's use and shape.
- 3) There are several indoor units which can be applied; 1-way cassette type, 4-way cassette type, Ceiling, Duct (Low silhouette, Built-in, High pressure), Wall-mounted and Floor standing type.

(2) Comparison of DVM with conventional air conditioners

1) DVM air conditioner

- ① Variable capacity (Energy Saving)
- ② Competitive price (Compared with the Inverter type)
- ③ Can be installed in houses / commercial buildings
- ④ Versatile combination of indoor units
- ⑤ Various remote controls



2) Conventional air conditioners

- ① Fixed capacity
- ② Unfavorable in case of installing more than 3 units / system





1. DVM system series

(3) Variable compressor

The world's first PWM(Pulse Width Modulation) compressor controls the cooling & heating capacity automatically, depending on the load.

1) Principle of the digital compressor

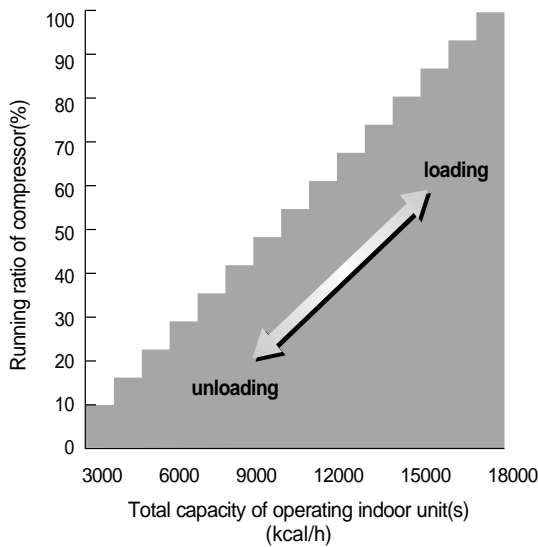
① Composition

The solenoid valve is installed for the compressor's loading / unloading between the upper part of the fixed scroll and the suction pipe.

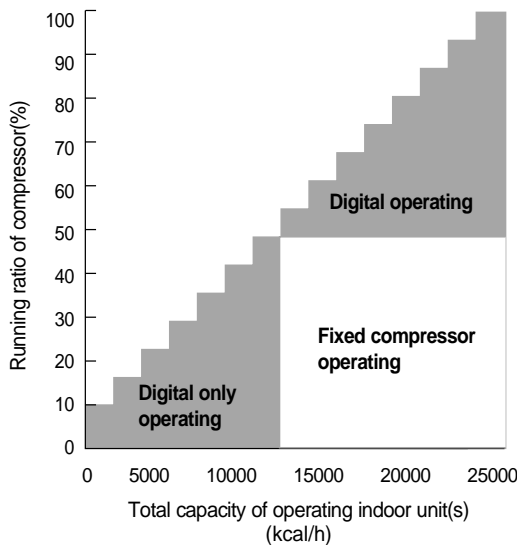
② Mechanism

- a. When the solenoid valve is turned off, the fixed scroll is closed to the orbiting scroll (Loading),
- b. When the solenoid valve is turned on, the fixed scroll is separated from the orbiting scroll (Unloading),
- c. This process controls the On / Off times of the valve and the rotating refrigerants in the circle, thus adjusting the capacity.
- d. The cooling capacity of the outdoor unit is controlled automatically, depending on the number of operating indoor unit(s).

< 1-Compressor system >



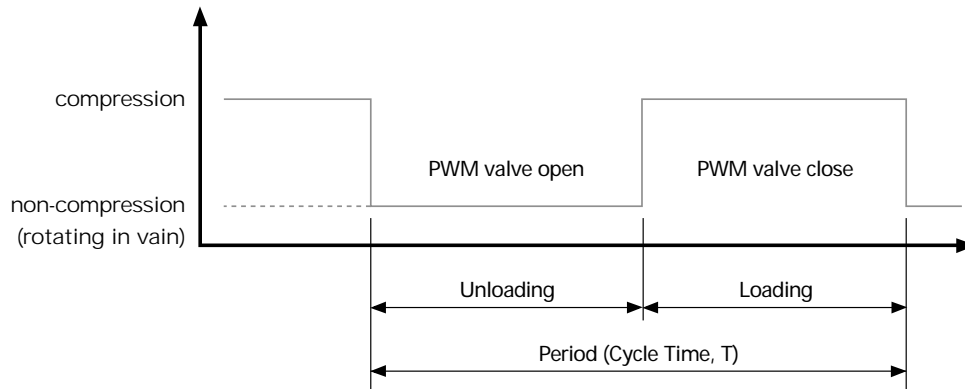
< 2-Compressor system >



2) PWM (Pulse Width Modulation) valve

PWM valve is the valve to take away the fixed scroll by lifting up through the difference of pressure after the digital scroll compress being connected to the outlet and inlet of suction. Therefore, the capacity of compressor is controlled automatically according to the operation status such as loading when the valve is closed or unloading when the valve is opened. PWM means the control of ON/OFF signal to the valve for loading/unloading.

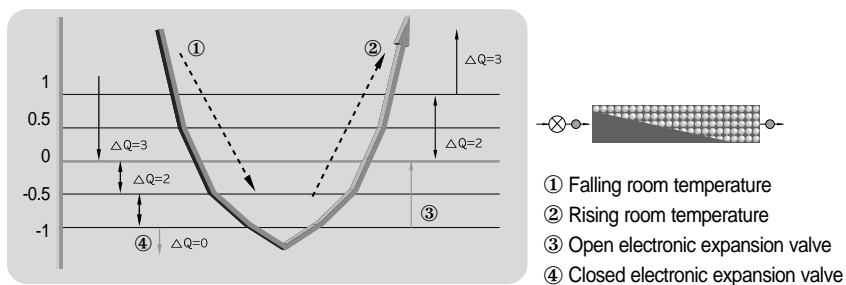
Relationship between PWM valve and loading/unloading



(4) Refrigerant flow rates control

Refrigerant flow rates through the electronic expansion valve are controlled by the 2 factors which are the temperature difference between inlet and outlet of evaporator and the difference between room and set temperature.

- An electronic expansion valve optimally distributes refrigerant flow rates to each room and the fuzzy logic enables comfortable cooling more precisely; refer to the figure below.
- The air conditioner senses the temperature difference between inlet and outlet of evaporator, plus the temperature difference between room and set temperature. And it calculates the superheat and the room temperature status, then adjusts refrigerant flow rates after deciding the opening steps of valve.



- Falling room temperature
- Rising room temperature
- Open electronic expansion valve
- Closed electronic expansion valve



1. DVM system series

(5) Long & single piping system

- 1) Piping can be extended up to 100 meters; refer to the figure.
- 2) The outdoor unit is connected with each indoor unit by single refrigerant piping.

(6) Convenient centralized control

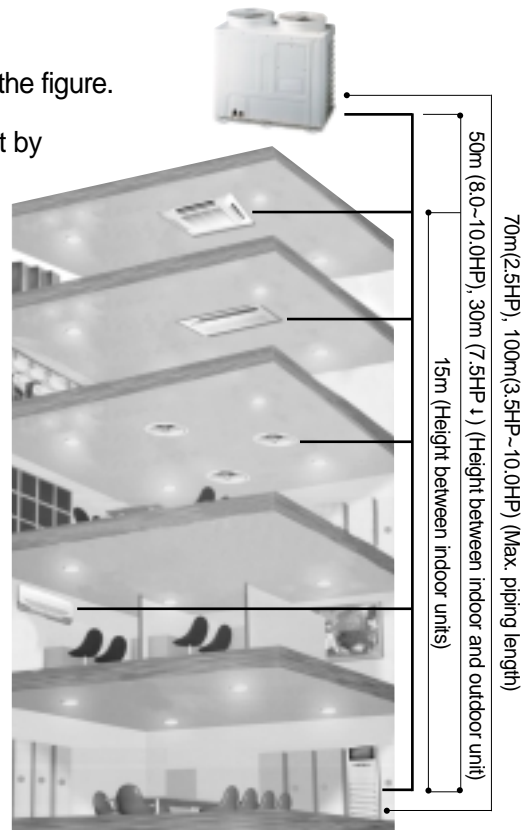
- 1) Every indoor unit has its own remote controller. In addition, a maximum of 16 indoor units can be controlled with the centralized controller.
- 2) A maximum of 256 indoor units can be controlled by using the PC Control.

(7) Easy installation

Simple planning and installation during the early stage of building construction or renovation.

(8) Minimizing operation costs

The cooling / heating capacity is adjusted automatically with the variable compressor, which reduces power consumption and running costs.



Division		DVM	Chiller	Unitary
Initial cost (US\$)	Equipment	29,812	25,558	27,500
	Piping	17/m ²	5,111	17/m ²
	Duct-install		17/m ²	
	Grand	39,812	40,670	37,500
Running cost (US\$)	Power consumption	44.2kW X 0.8 (Variable Compressor)	43kW X 1.0	52.5kW X 1.0
	Monthly consumption	12,906kWh	15,695kWh	19,162kWh
	Annual consumption (6 months in a year)	77,436kWh	94,170kWh	114,972kWh
	1 year rate	5,575	6,780	8,277
	3 year rate	16,726	20,340	24,833
	5 year rate	27,877	33,900	41,389
	Comparison	100%	121% ↑	148% ↑

* The results are based on Samsung Lab., therefore there may be differences according to the condition of installation and the environment of the use.

* Heat loads : 90,000 kcal/h in Korea

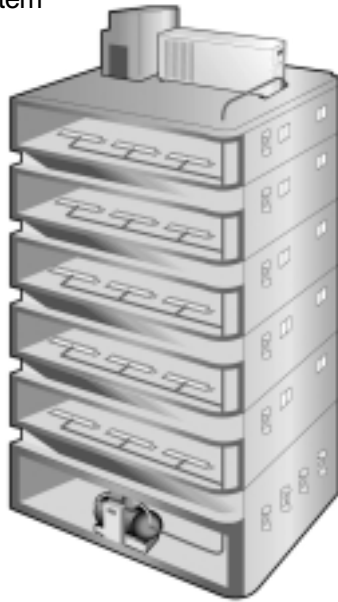
* Total area : 750m²

* Running : 3 months in every summer and winter

(9) Space Saving

The outdoor units connected with several indoor units do not require much space.

1) Conventional System



2) DVM System

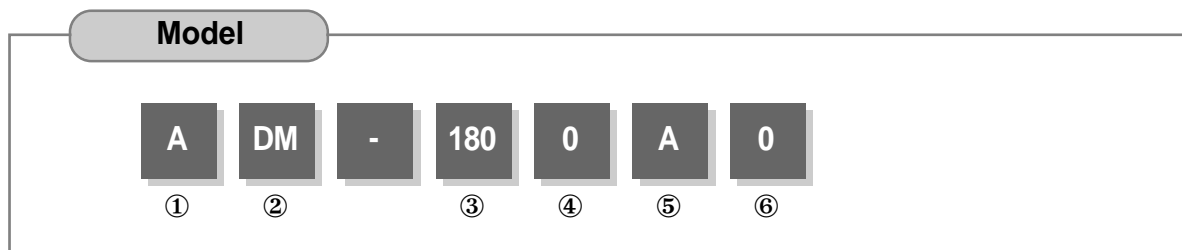




2. DVM line-up

2-1. Numbering system of model

(1) Indoor unit and outdoor unit (Conventional model)



① Semi-finished product

Indoor unit	A
Outdoor unit	M

② Classification of product

1-way cassette type	KM
4-way cassette type	BM
Duct type	DM
Outdoor unit	UF

③ Capacity (Btu x 100)

④ Option

Indoor unit	Function	0
	version	1
Outdoor unit	Recipro	0
	PWM	1

⑤ Power supply

- Indoor unit

115V, 60Hz	A
220V, 60Hz	B
208~230V, 60Hz	C
200~220V, 50Hz	D
220~240V, 50Hz	E
127V, 50Hz	M
220~240V, 50/60Hz, 1ø	N

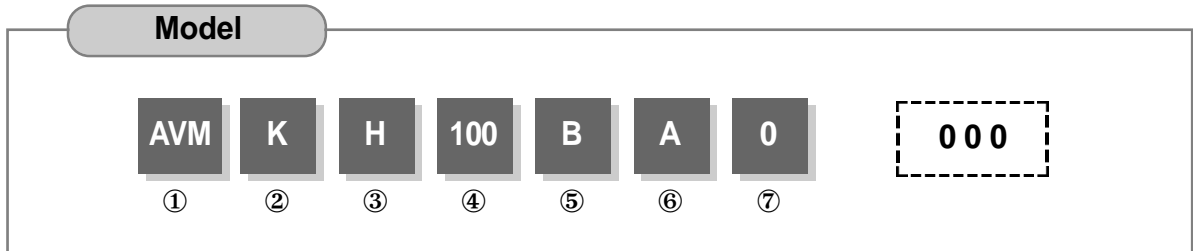
- Outdoor unit

115V, 60Hz	A
220V, 60Hz	B
208~230V, 60Hz	C
200~220V, 50Hz	D
220~240V, 50Hz	E
220V, 60Hz, 3ø	F
380~415V, 50Hz, 3ø	G
127V, 50Hz	M
220~240V, 50/60Hz, 1ø	N
380V, 60Hz, 3ø	H
460V, 60Hz, 3ø	J

⑥ Version

(2) Indoor unit and outdoor unit (New Model)

1) Indoor unit



① Semi-finished product

Variable capacity free joint multi (DVM)	AVM
--	-----

③ Mode

Cooling only (C/O)	C
Heat pump (H/P)	H
H/P+Heater	E
C/O+Heater	G
C/O+Hot water heater	N

⑤ Power supply

208~230V, 60Hz	C
220~240V, 50Hz	E

② Classification of product

Cassette type	1-way	K
	4-way	C
	2-way	G
	Exposed	N
Duct type	Low silhouette	D
	High pressure	H
	Built-in	B
Wall-mounted type		W
Ceiling type		F
Floor standing type (PAC)		P

④ Capacity (x 1/10 kW, 3 digits)

Btu/h	Watt	
	50Hz	60Hz
7K	2000W	2000W
9K	2600W	3200W
12K	3500W	4000W
18K	5200W	5200W
20K	6000W	6000W
24K	7000W	7200W
28K	8200W	8300W
36K	10500W	10500W
44K	12800W	12800W
48K	14000W	14000W

⑥ Refrigerant

R22	A
R407C	B
R410A	C

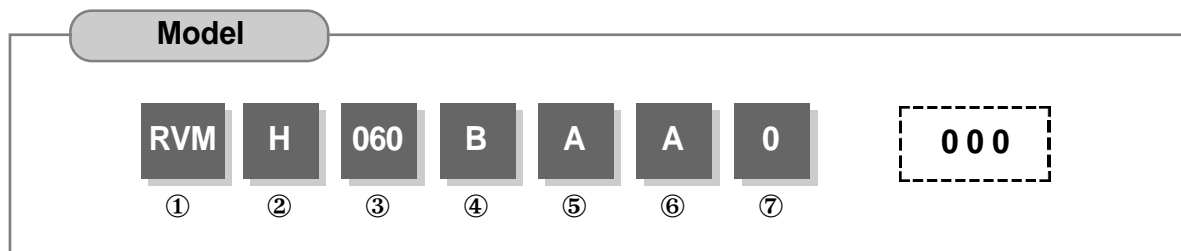
⑦ Version

-	0
~	1
~	2



2. DVM line-up

2) Outdoor unit



① Semi-finished product

Variable capacity free joint multi (DVM)	RVM
--	-----

④ Power supply

208~230V, 60Hz	C
208~230V, 60Hz, 3ø	F
380~415V, 50Hz, 3ø	G
380V, 60Hz, 3ø	H
460V, 60Hz, 3ø	J

⑥ Combination of indoor unit

Cassette type	1-way	K
	4-way	C
	2-way	G
	Exposed	N
Duct type	Low silhouette	D
	High pressure	H
	Built-in	B
Wall-mounted type		W
Ceiling type		F
Floor standing type (PAC)		P
Free		M

② Mode

Cooling only (C/O)	C
Heat pump (H/P)	H

⑤ Refrigerant / Discharge direction

Refrigerant	Discharge direction	Classification
R22	Upward	A
	Onward	B
R407C	Upward	C
	Onward	D
R410A	Upward	E
	Onward	F

⑦ Version

③ Capacity (x 1/10 HP, 3 digits)

(3) Options

Parts	Model	Standard for model name	Example
Electronic expansion valve kit (Attachment type)	MEV- ① ② ③	MEV : Optional electronic expansion valve ① : Electronic expansion valve model (2 digits) ② : Manufacturer ③ : Version	● MEV-14SA ● MEV-18SA ● MEV-24SA
Electronic expansion valve kit (Distributor kit type)	MXD- ① ② ③ ④ ⑤	MXD : Optional distributor kit ① : Max diameter (2 digits) ② : Kinds (marked as K2 for two kinds) ③ : Minimum diameter (Marked as 00 only for use of one kind and marked with minimum diameter for use of two kinds) ④ : Kinds (marked as K2 for two kinds) ⑤ : Version	● MXD-14K300A (1/4" 3) ● MXD-14K218A (1/4" 2, 1/8" 1)
Discharge duct	MDF- ① ②	MDF : Optional distributor duct flange ① : Hole size(ø, cm, 2 digits) ② : Version	● MDF-45A
Refnet kit	MXJ- ① ② ③	MXJ : Optional refnet (Y-joint) kit ① : Inlet pipe diameter (2 digits) ② : Outlet pipe diameter (2 digits) ③ : Version	● MXJ-1509B (Inlet pipe 15mm, Outlet pipe 9mm)
Drain pump	MDP- ① ② ③	MDP : Optional drain pump ① : Discharge pressure (cm, 3 digits), 75cm → 075 ② : Manufacturer ③ : Version	● MDP-075SA
Front panel	M ① ② ③ ④ ⑤ ⑥ ⑦	① : Grille application (Front panel) ② : Type of indoor unit (K: 1-Way cassette, G: 2-Way cassette, C: 4-Way cassette, B: Built-in duct) ③ : H: Cooling only & heat pump, N: No use of wireless remote controller ④ : Size (Mark the longer side, cm, 3 digits) ⑤ : Color (G: gray, I: Ivory) ⑥ : Language [E: English only, C: Chinese, A: Arabic, M: 8 Languages, U: 3 Languages (°F & Inch)] ⑦ : Version	● MGKC118IE0
Wireless remote controller	MR- ① ② ③ ④ ⑤	MR : Optional wireless remote controller ① : Design(A-Compact) ② : Mode (C: cooling only, H: heat pump) ③, ④ : Version ⑤ : Language [None: 9 Languages, C: Chinese, U: 3 Languages (°F & Inch)]	● MR-AC00 ● MR-AC00C



2. DVM line-up

Parts	Model	Standard for model name	Example
Receiver & display unit wire	MRW- ① ② ③	MRW : Optional receiver & display unit wire ① : Length (m, 2 digits) ② : Version ③ : Language (None: English, C: Chinese)	● MRW-10A ● MRW-10AC
Interface module	MIM- ① ② ③ ④	MIM : Optional interface module ① : Applicable location (A: indoor unit B: outdoor unit, C: others) ②, ③ : Version ④ : Language (None: 9 Languages, C: Chinese)	● MIM-B00 ● MIM-B00C
Controller	MCM- ① ② ③ ④ ⑤	MCM : Optional controller ① : Function (A: controller, B: measuring instrument, C: others) ② : LCD Application (1: yes, 2: none) ③, ④ : Version ⑤ : Language [None: 9 Languages, C: Chinese, U: 3 Languages (°F & Inch)]	● MCM-A200 ● MCM-A200U
Wired remote controller	MWR- ① ② ③ ④ ⑤	MWR : Optional wired remote controller ① : Design (A - present) ② : Classification of function (H: Cooling only & heat pump) ③, ④ : Version ⑤ : Language [None: 9 Languages, C: Chinese, U: 3 Languages (°F & Inch)]	● MWR-AH01 ● MWR-AH01C
Receiver & display unit kit	MRK- ① ② ③ ④	MRK : Optional receiver & display unit kit ① : Receiver kit design (A) ②, ③ : Version ④ : Language (None: 9 Languages, C: Chinese)	● MRK-A00 ● MRK-A00C
Filter	MF- ① ② ③ ④	MF : Optional filter ① : Classification of product ② : Specification of filter (0: air filter 1: bio-pure & deodorizing filter 2: on-board electric dust collector 3: scroll electric dust collector) ③ : Color (B: black G: green) ④ : Version	● MF-C1B0 ● MF-C1B0C (For China)

Parts	Model	Standard for model name	Example
Duct flange	MDP- ① ② ③ ④	MDP : Duct flange ①, ② : Hole size (ø, cm) ③ : Number of hole ④ : Version	● MDP-2030 ● MDP-2030C (For China)
Super cooler	MSC- ① ② ③ ④ ⑤	MSC : Super cooler ①, ② : HP of applicable outdoor unit (marked as 00 if it is 10.0 HP) ③ : Power supply B:220V, 60Hz C:208~230V, 60Hz E:220~240V, 50Hz H:380V, 60Hz, 3ø J:460V, 60Hz, 3ø ④ : Design (A: front B: top) ⑤ : Version	● MSC-00EB0 (Applied to the top of 10.0HP outdoor unit) ● MSC-45EA0 (Applied to the front of 4.5HP outdoor unit)
Super heater	MSH- ① ② ③ ④ ⑤	MSH : Super heater ①, ② : HP of applicable outdoor unit (marked as 00 if it is 10.0 HP) ③ : Specification of power source B:220V, 60Hz C:208~230V, 60Hz E:220~240V, 50Hz H:380V, 60Hz, 3ø J:460V, 60Hz, 3ø ④ : Design (A: front B: top) ⑤ : Version	● MSH-00EB0 (Applied to the top of 10.0HP outdoor unit) ● MSH-45EA0 (Applied to the front of 4.5HP outdoor unit)
Water coil	MWC- ① ② ③ ④ ⑤	MWC : Water coil ①, ②, ③ : Capacity of applicable indoor unit (x 10 kW) ④ : Applicable product (H: High pressure duct, D: Low silhouette duct, B: Built-in duct) ⑤ : Version	● MWC-083D0 (For 8300W Low silhouette duct)







2. DVM line-up

2-2. Combination




(1) Outdoor unit

1) Cooling only

Design		Power supply		Model	Capacity(HP)	Refrigerant
Main	Super cooler					
	-	50Hz	380-415V, 3ø	RVMC060GDM0	6	R407C
		60Hz	208-230V, 1ø	RVMC050CBM0	5	R22
		50Hz	380-415V, 3ø	RVMC060GAM0	6	R22
			380-415V, 3ø	RVMC060GAM1	6	R22
		60Hz	380V, 3ø	MUF7201F1	7.5	R22
			208-230V, 3ø	RVMC070FAM0	7.0	R22
	-	50Hz	380-415V, 3ø	RVMC100GAM0	10	R22
		60Hz	208-230V, 3ø	RVMC100FAM0	10	R22



- ◆ The system enables the connection of indoor units with a total capacity of between 50 to 130% of that of the corresponding outdoor unit but where this capacity ratio exceeds 100% then the actual capacity of each indoor unit will fall a little short of its individual rated capacity when all the units are operated simultaneously. (Except for the Middle East models)
- ◆ The specification of super cooler may differ, depending on the model.

Design		Max. connectible indoor units	Total capacity of indoor units (kW, ISO standard)	Super cooler	Remark
Main	Super cooler				
	-	8	8.0~20.8	-	
		7	7.2~18.8	-	
	-	8	8.0~20.8	-	
		8	8.0~16.0	-	For the Middle East
		10	10.5~21.0	O	For the Middle East
			10.5~27.3	-	
			10.5~21.0	-	For the Middle East
	-	14	14.0~36.4	-	
			14.0~28.0	-	For the Middle East
		14	14.0~36.4	-	
			14.0~28.0	-	For the Middle East





- ◆ The system enables the connection of indoor units with a total capacity of between 50 to 130% of that of the corresponding outdoor unit but where this capacity ratio exceeds 100% then the actual capacity of each indoor unit will fall a little short of its individual rated capacity when all the units are operated simultaneously. (Except for the Middle East models)
- ◆ The specification of super cooler may differ, depending on the model.





2. DVM line-up

2) Heat pump

Design		Power supply		Model	Capacity(HP)	Refrigerant
Main	Super cooler					
		50Hz	380~415V, 3ø	RVMH060GBM0	6	R22
			380~415V, 3ø	RVMH060GDM0	6	R407C
		60Hz	208~230V, 1ø	RVMH050CBM0	5	R22
		50Hz	380~415V, 3ø	RVMH080GAM0	8	R22
			380~415V, 3ø	RVMH100GAM0	10	R22
			380~415V, 3ø	RVMH100GCM0	10	R22
		60Hz	208~230V, 3ø	RVMH100FAM0	10	R22



- ◆ The system enables the connection of indoor units with a total capacity of between 50 to 130% of that of the corresponding outdoor unit but where this capacity ratio exceeds 100% then the actual capacity of each indoor unit will fall a little short of its individual rated capacity when all the units are operated simultaneously. (Except for the Middle East models)
- ◆ The specification of super cooler may differ, depending on the model.

Design		Max. connectible indoor units	Total capacity of indoor units (kW, ISO standard)	Super cooler	Remark
Main	Super cooler				
	-	8	8.0~20.8	-	
		8	8.0~20.8	-	
		7	7.2~18.8	-	
	-	11	11.0~29.0	-	
		14	14.0~36.4	-	
			14.0~28.0	-	For Middle East
		14	14.0~36.4	-	
		14	14.0~36.4	-	
14.0~28.0	-		For Middle East		



- ◆ The system enables the connection of indoor units with a total capacity of between 50 to 130% of that of the corresponding outdoor unit but where this capacity ratio exceeds 100% then the actual capacity of each indoor unit will fall a little short of its individual rated capacity when all the units are operated simultaneously. (Except for the Middle East models)
- ◆ The specification of super cooler may differ, depending on the model.



2. DVM line-up

(2) Indoor unit

Design	Power supply	2.0kW (7000Btu/h)	2.6kW (9000Btu/h)	3.2kW (11000Btu/h)	3.5kW (12000Btu/h)	4.0kW (13500Btu/h)	5.2kW (18000Btu/h)	6.0kW (20000Btu/h)	
1-way cassette type 	50Hz	AVMKC020EA0	AVMKC026EA0	-	AVMKC035EA0	-	-	-	
		AVMKH020EA0	AVMKH026EA0	-	AVMKH035EA0	-	-	-	
	60Hz	AVMKC020CA0	-	AVMKC032CA0	-	AVMKC040CA0	-	-	
		AVMKH020CA0	-	AVMKH032CA0	-	AVMKH040CA0	-	-	
4-way cassette type 	50Hz	-	-	-	-	-	AVMCC052EA0	-	
		-	-	-	-	-	-	AVMCH052EA0	-
	60Hz	-	-	-	-	-	-	AVMCC052CA0	-
		-	-	-	-	-	-	ABM1800B1 AVMCH052CA0	-
Duct type(Low silhouette) 	50Hz	-	-	-	-	-	AVMDC052EA0	-	
		-	-	-	-	-	-	AVMDH052EA0	-
	60Hz	-	-	-	-	-	-	AVMDC052CA0	-
		-	-	-	-	-	-	ADM1800B1 AVMDH052CA0	-
Duct type (Built-in) 	50Hz	AVMBC020EA0	AVMBC026EA0	-	AVMBC035EA0	-	AVMBC052EA0	-	
		AVMBH020EA0	AVMBH026EA0	-	AVMBH035EA0	-	AVMBH052EA0	-	
	60Hz	AVMBC020CA0	-	AVMBC032CA0	-	AVMBC040CA0	AVMBC052CA0	-	
		AVMBH020CA0	-	AVMBH032CA0	-	AVMBH040CA0	AVMBH052CA0	-	
Duct type(High pressure) 	50Hz	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	
	60Hz	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	
Wall-mounted type 	50Hz	AVMWC020EA0	AVMWC026EA0	-	AVMWC035EA0	-	AVMWC052EA0	-	
		AVMWH020EA0	AVMWH026EA0	-	AVMWH035EA0	-	AVMWH052EA0	-	
	60Hz	AVMWC020CA0	-	AVMWC032CA0	-	AVMWC040CA0	AVMWC052CA0	-	
		AVMWH020CA0	-	AVMWH032CA0	-	AVMWH040CA0	AVMWH052CA0	-	
Floor standing type 	50Hz	-	-	-	-	-	-	AVMPC060EA0	
		-	-	-	-	-	-	-	AVMPH060EA0
	60Hz	-	-	-	-	-	-	-	AVMPC060CA0
		-	-	-	-	-	-	-	AVMPH060CA0
Ceiling type 	50Hz	-	-	-	-	-	AVMFC052EA0	-	
		-	-	-	-	-	-	AVMFH052EA0	-
	60Hz	-	-	-	-	-	-	AVMFC052CA0	-
		-	-	-	-	-	-	AVMFH052CA0	-



Caution ◆ The design and capacity of indoor unit are subject to change without notice.

Design	Power supply	7.0kW (24000Btu/h)	7.2kW (24000Btu/h)	8.2kW (28000Btu/h)	8.3kW (28000Btu/h)	10.5kW (36000Btu/h)	12.8kW (44000Btu/h)	Remark
1-way cassette type 	50Hz	-	-	-	-	-	-	
		-	-	-	-	-	-	
	60Hz	-	-	-	-	-	-	
		-	-	-	-	-	-	
4-way cassette type 	50Hz	AVMCC070EA0	-	-	-	AVMCC105EA0	-	
		AVMCH070EA0	-	-	-	AVMCH105EA0	-	
	60Hz	-	AVMCC072CA0 ABM2400B1	-	-	AVMCC105CA0	-	
		-	AVMCH072CA0	-	-	AVMCH105CA0	-	
Duct type(Low silhouette) 	50Hz	AVMDC070EA0	-	-	-	-	-	
		AVMDH070EA0	-	-	-	-	-	
	60Hz	-	AVMDC072CA0 ADM2400B1	-	-	-	-	
		-	AVMDH072CA0	-	-	-	-	
Duct type (Built-in) 	50Hz	AVMBC070EA0	-	-	-	-	-	
		AVMBH070EA0	-	-	-	-	-	
	60Hz	-	AVMBC072CA0	-	-	-	-	
		-	AVMBH072CA0	-	-	-	-	
Duct type(High pressure) 	50Hz	-	-	-	-	AVMHC105EA0	AVMHC128EA0	
		-	-	-	-	AVMHH105EA0	AVMHH128EA0	
	60Hz	-	-	-	-	AVMHC105CA0	AVMHC128CA0	
		-	-	-	-	AVMHH105CA0	AVMHH128CA0	
Wall-mounted type 	50Hz	AVMWC070EA0	-	-	-	-	-	
		AVMWH070EA0	-	-	-	-	-	
	60Hz	-	AVMWC072CA0	-	-	-	-	
		-	AVMWH072CA0	-	-	-	-	
Floor standing type 	50Hz	AVMPC070EA0	-	AVMPC082EA0	-	-	-	
		AVMPH070EA0	-	AVMPH082EA0	-	-	-	
	60Hz	-	AVMPC072CA0	-	AVMPC083CA0	-	-	
		-	AVMPH072CA0	-	AVMPH083CA0	-	-	
Ceiling type 	50Hz	AVMFC070EA0	-	-	-	-	-	
		AVMFH070EA0	-	-	-	-	-	
	60Hz	-	AVMFC072CA0	-	-	-	-	
		-	AVMFH072CA0	-	-	-	-	



◆ The design and capacity of indoor unit are subject to change without notice.

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