SAMSUNG

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Samsung Air Conditioning Systems
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Samsung Electronics Australia Pty Ltd
ABN 63 002 915 648
3 Murray Rose Avenue
Homebush Bay NSW 2127 Australia

Samsung Air Conditioning Systems | DVM Catalogue, September 2021

Samsung Electronics Australia Pty Ltd

SAMSUNG

DVM S

Variable Refrigerant Flow (VRF) System
Heat Pump and Heat Recovery
Designed for superior efficiency

Contents

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About Samsung

We create new possibilities to fulfil the needs of people across the globe

Samsung Electronics has come a long way since introducing its first air conditioner in 1974. Having entered the European market for commercial air conditioning in 2005, we have experienced rapid growth and support for our expanding global operations in climate systems. Samsung Electronics Co., Ltd. opened Samsung Electronics Air Conditioner Europe B.V. in Amsterdam at the start of 2017. Staff at our European headquarters and local subsidiaries strive to provide the best level of service and support to our partners across more than 30 European countries, in order to achieve mutual growth and success going forward.

It is our focus at Samsung to provide cutting-edge innovations in climate-based initiatives, as well as lasting digital connectivity solutions, fulfilling the needs of cooling, heating, domestic hot water, ventilation and smart building solutions, particularly across retail, hotel, office and home environments.

309,603
EMPLOYEES

7
DESIGN CENTRES

74
COUNTRIES

37
PRODUCTION SITES

216
GLOBAL BASES

15
REGIONAL OFFICES

37
R&D CENTRES

52
SALES OFFICES

Our History

Continuous innovation

Samsung is synonymous with pushing back boundaries, and we are revolutionizing the world of air care. Our award-winning air conditioning systems are recognized worldwide for their stunning designs, advanced performance and outstanding efficiency.

Using groundbreaking technology, we have developed an extensive range of innovative climate systems. So, we can provide the best solution to fit your needs, whether it is for your home or for a business.

1974
Began WAC Production

1975
Began RAC Production

1985
Began Inverter RAC / FAC / PAC Production

1992
Began SAC Production

2000
First Launched DVM Water

2007
Launched World's Largest Capacity DVM+4 (22HP, Max 88HP)

2012
Launched WiFi Control RAC (Jungfrau)

2013
Launched Triangle Design RAC (A3050)

2015
Introduced World's First 360 Cassette 30HP DVM

2017
Launched **Wind**Free™

2018
Extended **Wind**Free™ With Cassette Range

Worldwide

As Samsung Electronics, we are committed to helping our customers, partners and employees discover new experiences and possibilities. Across all our businesses, we are inspired by the world around us to create new technologies for consumers. From products that are designed to keep pace with how we live our lives to the core components that make it all possible.

Samsung DVM-VRF air conditioning has been installed in a wide range of projects and applications in conjunction with other products from the Samsung Electronics products.

Samsung DVM air conditioners are chosen by various groups from different countries all around the world for their proven performance.

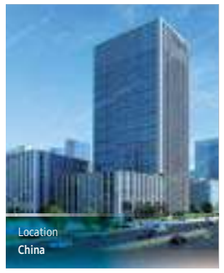
Commercial

Education

Medical

Apartment

Residential and Commercial



Industrial

Business Office

DVM S

7 reasons to choose Samsung DVM S systems

Capacity

Large Heating and Cooling Capacity

Experience the ultimate heating and cooling capacity while optimizing space with an efficiently sized design.

Efficiency

High Energy Efficiency

Reduce energy consumption and costs with a dual inverter system featuring simultaneous compressor operation for higher performance.

Flexibility

Flexible Installation

Easy install due to piping length and a lightweight design.

Reliability & Durability

Excellent Performance

Ensure dependable cooling and heating for various conditions.

24/7 Comfort

Year-Round Climate Control

Advanced temperature control and a rapid cooling and heating performance.

Heating

Improved Performance

Enhance the airflow with smarter, more efficient heating technology for cold weather environments.

Smart

Smart Management

Monitor system performance effectively.

More than a trusted air conditioning solution

As Samsung, we imagine all sorts of innovative ways to improve how your space functions and help it run smoothly – giving you the environment you deserve. We are proud to say Samsung products are designed to be intuitive and fit seamlessly into your life.

Samsung air conditioners have been designed with the same passion for innovation and quality that has helped make Samsung one of the world's top electronics producers and one of the Interbrand 2020 Best Global Brands.

Samsung air conditioning systems are held in high esteem, used in apartments, housing, shopping centres, airports, stadiums and hotels around the world. Samsung continues to invest heavily in research and development, performance testing and quality control to deliver quality air conditioning systems to market.

5TH BEST GLOBAL BRAND*

* Source: Interbrand Best Global Brands 2020 rankings.

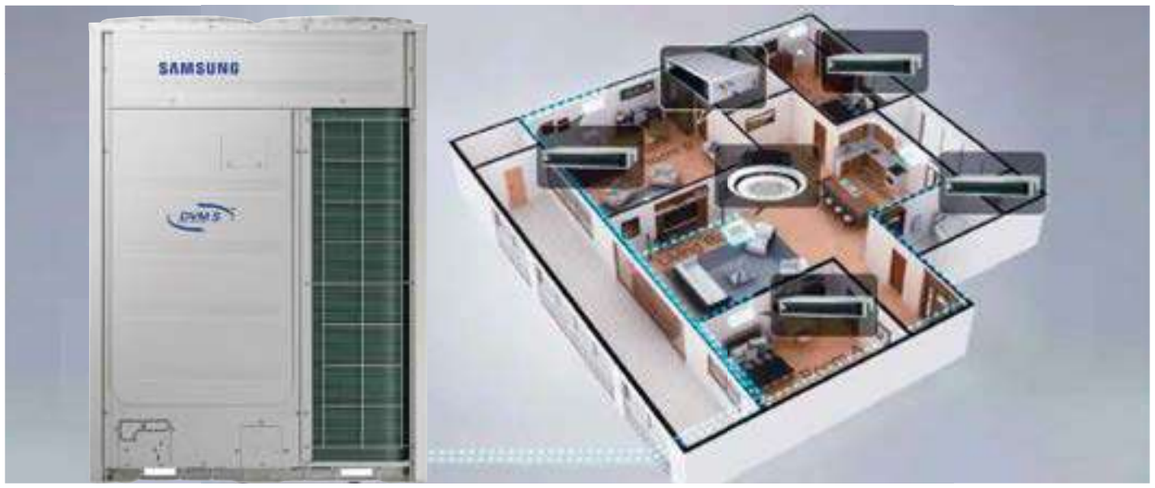
Big on capacity. Big on efficiency.

Samsung DVM-VRF (Variable Refrigerant flow) systems are a smart solution for commercial and large residential building that demand rapid and flexible temperature control, greater efficiency and more flexible installation. A DVM-VRF System consists of three main components: an outdoor unit, compatible indoor unit(s) and a controller*.

* Sold separately

The flexibility of our DVM Systems allows for more creative installations.

The DVM-VRF Systems are compatible with a large variety of indoor types, enabling you to choose the combination best suited to the project. Each indoor unit can also have a different temperature set – providing the ultimate comfort.



Controllers

The stylish and intuitive controller makes it easy to select your desired temperature and fan speeds. Some controller models also include many features such as LCD backlight and time scheduling.

Outdoor Unit

The Samsung DVM S-VRF air conditioning system offers up to 84kW (30HP) capacity in a single modular unit, so you can save on installation space, whilst still delivering cooling and heating to where its needed it.

Indoor Unit

An DVM S-VRF System allows you to choose the combination of indoor units that best suit your needs. The indoor unit cools or warms the air in your space via a heat exchanger coil. A fan then gently blows the conditioned air through the room.

Complete line-ups to meet every demand

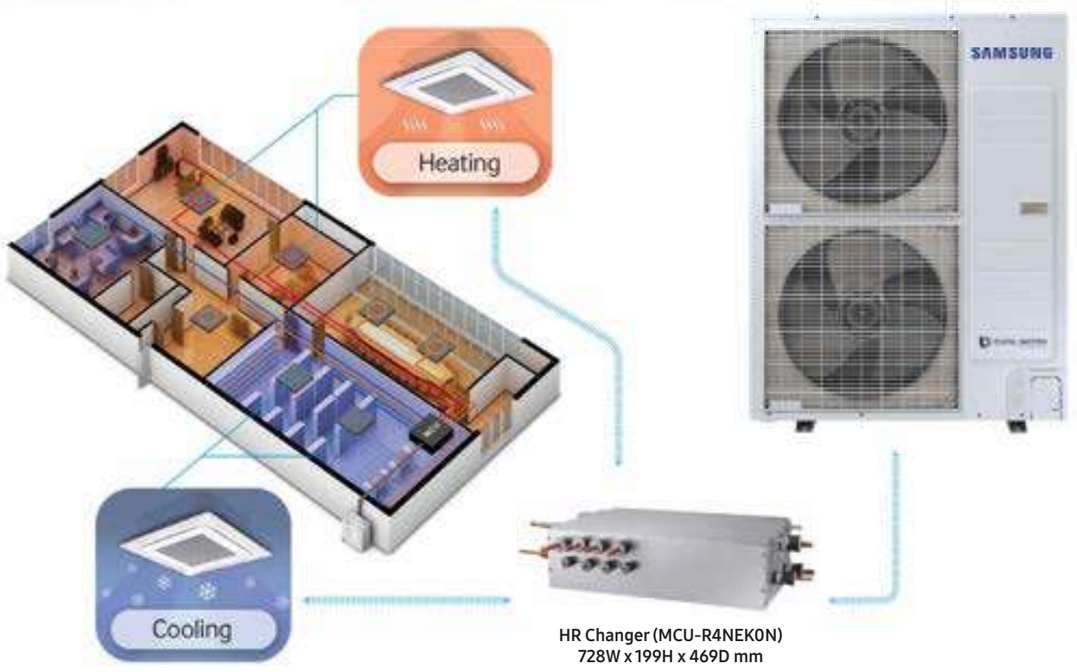
SAMSUNG

DVM S™ DIGITAL VARIABLE MULTI

DVM S Mini

Small in size to fit into more spaces.
Big in power to maximize comfort.

Ideal for residential and light commercial applications



HR Changer (MCU-R4NEK0N)
728W x 199H x 469D mm

Offering Great Flexibility and Comfort

Compact VRF module systems with flexibility to provide you with cooling operation or heating operation as required; use in conjunction with HR changer and Mode Control Unit (MCU), DVM S Mini HR can provide independent Heating and Cooling operation at each connected indoor unit serving each space, offering you freedom in your comfort control.

DVM S Mini HR is ideally suited for premium homes, light commercial premises such as medical clinics, banks, and small multiple tenancy offices.

DVM S Mini

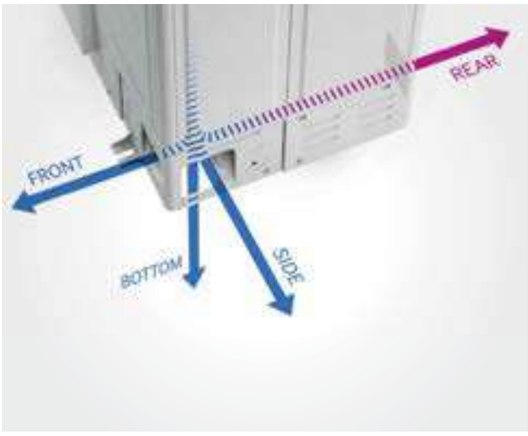
Now Available in Heat Recovery

HR Changer for Heat Recovery Operation

For Heat Recovery to occurred in DVM Mini systems, a HR changer is required to be connected between the outdoor unit and the connected indoor units. The HR Changer controls the direction of the refrigerant gas flow to the indoor unit depending on the user operating request in cooling or heating for the air conditioned space.

Installation Flexibility

Can be piped in from 4 different directions: with connections at the front, side, bottom, and rear of the outdoor unit.



Reliability in cold conditions

Featuring advanced refrigerant control technology. Its flash injection provides reliable heating performance at -25°C for reliable comfort when it's freezing outside.

Control your cooling anywhere

An optional WiFi kit lets you remotely control indoor units using Samsung SmartThings App*, anytime and anywhere you can turn the units on and off, change operating modes, adjust temperature set points, and many more, convenient comfort control at your fingertips.

* Available on compatible mobile devices, sold separately. Existing WiFi infrastructure is required. Data charges may apply.

DVM S Mini

Low Profile, Heat Pump

Small yet versatile, single phase power supply

- Compact low profile unit ideally suited for apartment installation where the unit can be located on the balcony, with its low unit height and compact footprint it takes up less space of your balcony and minimises obstructions to your view

W940 x H998 x D330mm

Model			AM030RXMDEH/EU	AM040KXMDEH/EU	AM050KXMDEH/EU
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Capacity (Nominal)	Rating	HP	3	4	5
	Cooling[1]	kW	9.0	12.1	14.0
	Heating[2]	kW	10.0	12.1	14.0
Maximum Number of Connectable Indoor Units			5	6	8
Connectable Total Indoor Capacity	Minimum	kW	4.5	5.6	7.0
	Maximum	kW	11.7	14.5	18.2
Current	MCA[4]	A	16.5	24.0	27.0
	MFA[4]	A	25.0	32.0	40.0
Energy Efficiency Ratio	Cooling[1]	W/W	4.09	3.36	3.50
	Heating[2]	W/W	4.76	4.17	4.12
Compressor	Type		Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Oil Type		PVE	PVE	PVE
Fan	Type		Propeller	Propeller	Propeller
	Quantity		1	1	1
	Airflow Rate	l/s	1067	1067	1167
	External Static Pressure	Pa	29	29	29
Piping Connections	Liquid Pipe	mm/inch	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"
	Gas Pipe	mm/inch	15.88, 5/8"	15.88, 5/8"	15.88, 5/8"
Allowable Piping Length	Piping Length, Outdoor to Indoor. Maximum (Equivalent)	m	50 (65)	50 (65)	50 (65)
	Piping Height. Outdoor Above (Outdoor Below)	m	30 (25)	30 (25)	30 (25)
Unit Weight		kg	79	79	83.5
External Dimension	W x H x D	mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330
Factory Charge	R410A	kg	2.0	2.0	2.5
Sound[3]	Sound Pressure - Cooling	dB(A)	51	52	55
	Sound Pressure - Heating	dB(A)	54	54	57
	Sound Power	dB(A)	68	73	75
Operating Ambient Temperature Range	Cooling	°C	-5 to 48°C	-5 to 48°C	-5 to 48°C
	Heating	°C	-20 to 24°C	-20 to 24°C	-20 to 24°C

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

1) Nominal cooling capacities are based on - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
2) Nominal heating capacities are based on - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
3) Sound level was acquired in anechoic room, thus actual noise level may be different depending on installation conditions.
4) MCA : Minimum Circuit Amps, MFA : Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

DVM S Mini

Heat Recovery, Heat Pump

Universal outdoor, single phase power supply

- Universal outdoor unit, can be used as a heat pump outdoor or as a heat recovery outdoor
- For heat recovery operation, there are no conflict in operation mode requirement, providing simultaneous Heating and Cooling operation when use in conjunction with HR changer and Mode Control Unit (MCU)
- Connectable indoor units means you can air condition spaces and with precision control to meet your comfort
- You can position the outdoor unit away from the indoor unit, so as not to interfere with your main living space

W940 x H1210 x D330mm

Model			AM040NXMDER/EU	AM050NXMDER/EU	AM060NXMDER/EU
Power Supply		Ø, V, Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Capacity (Nominal)	Rating	HP	4	5	6
	Cooling[1]	kW	12.1	14.0	15.5
	Heating[2]	kW	12.1	14.0	15.5
Maximum Number of Connectable Indoor Units			8	9	10
Connectable Total Indoor Capacity	Minimum	kW	6.0	7.0	7.8
	Maximum	kW	15.7	18.2	20.2
Current	MCA[4]	A	22.0	24.0	30.0
	MFA[4]	A	25.0	32.0	40.0
Energy Efficiency Ratio	Cooling[1]	W/W	4.50	4.11	3.75
	Heating[2]	W/W	4.80	4.70	4.45
Compressor	Type		Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Oil Type		PVE	PVE	PVE
Fan	Type		Propeller	Propeller	Propeller
	Quantity		2	2	2
	Airflow Rate	l/s	1667	1667	1667
	External Static Pressure	Pa	29	29	29
Piping Connections	Liquid Pipe	mm/inch	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"
	Gas Pipe	mm/inch	15.88, 5/8"	15.88, 5/8"	19.05, 3/4"
	High Pressure Gas Pipe, for Heat Recovery	mm/inch	15.88, 5/8"	15.88, 5/8"	15.88, 5/8"
Allowable Piping Length	Piping Length, Outdoor to Indoor. Maximum (Equivalent)	m	150 (175)	150 (175)	150 (175)
	Piping Height. Outdoor Above (Outdoor Below)	m	50 (40)	50 (40)	50 (40)
Unit Weight		kg	97	97	100
External Dimension	W x H x D	mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330
Factory Charge	R410A	kg	3.2	3.2	3.3
Sound[3]	Sound Pressure - Cooling	dB(A)	50	50	51
	Sound Pressure - Heating	dB(A)	52	52	53
	Sound Power	dB(A)	67	68	70
Operating Ambient Temperature Range	Cooling	°C	-5 to 48°C	-5 to 48°C	-5 to 48°C
	Heating	°C	-25 to 26°C	-25 to 26°C	-25 to 26°C

NOTE
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1) Nominal cooling capacities are based on - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
2) Nominal heating capacities are based on - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
3) Sound level was acquired in anechoic room, thus actual noise level may be different depending on installation conditions.
4) MCA : Minimum Circuit Amps, MFA : Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

DVM S Mini

Heat Recovery, Heat Pump

W940 x H1210 x D330mm

Universal outdoor, three phase power supply

- Universal outdoor unit, can be used as a heat pump outdoor or as a heat recovery outdoor
- For heat recovery operation, there are no conflict in operation mode requirement, providing simultaneous Heating and Cooling operation when use in conjunction with HR changer and Mode Control Unit (MCU)
- Connectable indoor units means you can air condition spaces and with precision control to meet your comfort
- You can position the outdoor unit away from the indoor unit, so as not to interfere with your main living space

Model			AM040NXMDGR/EU	AM050NXMDGR/EU	AM060NXMDGR/EU
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Capacity (Nominal)	Rating	HP	4	5	6
	Cooling[1]	kW	12.1	14.0	15.5
	Heating[2]	kW	12.1	14.0	15.5
Maximum Number of Connectable Indoor Units			8	9	10
Connectable Total Indoor Capacity	Minimum	kW	6.0	7.0	7.8
	Maximum	kW	15.7	18.2	20.2
Current	MCA[4]	A	16.1	16.1	16.1
	MFA[4]	A	20.0	20.0	20.0
Energy Efficiency Ratio	Cooling[1]	W/W	4.50	4.11	3.75
	Heating[2]	W/W	4.80	4.70	4.45
Compressor	Type		Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Oil Type		PVE	PVE	PVE
Fan	Type		Propeller	Propeller	Propeller
	Quantity		2	2	2
	Airflow Rate	l/s	1667	1667	1667
	External Static Pressure	Pa	29	29	29
Piping Connections	Liquid Pipe	mm/inch	9.52, 3/8"	9.52, 3/8"	9.52, 3/8"
	Gas Pipe	mm/inch	15.88, 5/8"	15.88, 5/8"	19.05, 3/4"
	High Pressure Gas Pipe, for Heat Recovery	mm/inch	15.88, 5/8"	15.88, 5/8"	15.88, 5/8"
Allowable Piping Length	Piping Length, Outdoor to Indoor. Maximum (Equivalent)	m	150 (175)	150 (175)	150 (175)
	Piping Height. Outdoor Above (Outdoor Below)	m	50 (40)	50 (40)	50 (40)
Unit Weight		kg	95	95	98
External Dimension	W x H x D	mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330
Factory Charge	R410A	kg	3.2	3.2	3.3
Sound[3]	Sound Pressure - Cooling	dB(A)	50	50	51
	Sound Pressure - Heating	dB(A)	52	52	53
	Sound Power	dB(A)	67	68	70
Operating Ambient Temperature Range	Cooling	°C	-5 to 48°C	-5 to 48°C	-5 to 48°C
	Heating	°C	-25 to 26°C	-25 to 26°C	-25 to 26°C

NOTE
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1) Nominal cooling capacities are based on - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
2) Nominal heating capacities are based on - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
3) Sound level was acquired in anechoic room, thus actual noise level may be different depending on installation conditions.
4) MCA : Minimum Circuit Amps, MFA : Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

Big on capacity. Big on efficiency.

A comprehensive range of sided blow (discharged) outdoor units, with compact footprint and high energy efficiency. Ideally suited for premium homes and small office, light commercial complexes.

Experience ultimate comfort at home or work with reliable, efficient performance

The Samsung DVM S Mini system air conditioner combines energy efficiency and reliability to deliver outstanding performance in a space-saving design.

Connects multiple indoor units to a single outdoor unit

The flexibility with Samsung's DVM S Mini system is that you can have multiple indoor units piped to a single outdoor unit. This allows you to cool or heat multiple areas in your home or small office building from the one air conditioning system.

Individually control each indoor unit operations

Each indoor unit can have a thermostat controller which you can set temperature setpoint, operation mode, airflow, and check the operational status, providing you convenience for easy and holistic control of your air conditioning. Unlike one large ducted system with zoning control serving your home, DVM S Mini allows you to control the operation of each local indoor unit separately, providing precise operational control and rapid response to meet your comfort needs.

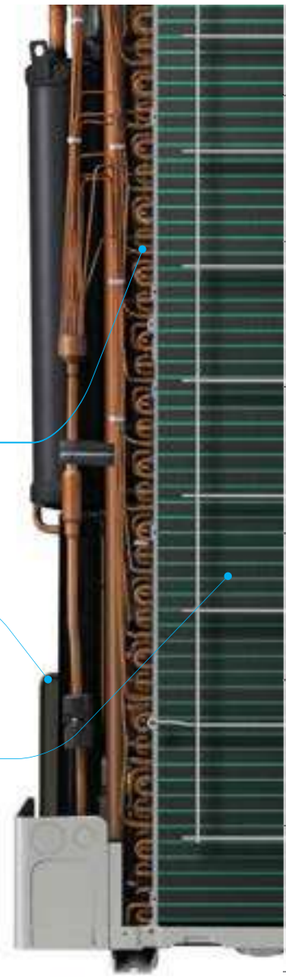
Variation of indoor types and capacities to suit the application

A DVM Mini system supports a variety of combinations of compatible indoor unit types and capacity sizes so you have the flexibility to choose the installation that best suits your application.

Optimized performance and energy use

Digital Inverter Scroll Compressor with a 6 Pole 9 Slot BLDC Motor*

Save money every day with a highly efficient heating and cooling performance. The DVM S Mini features a Digital Inverter Scroll Compressor with a 6 Pole 9 Slot BLDC Motor, which has 9 magnets packed around 6 poles. Unlike conventional compressors, it maintains the desired temperature without frequently turning off and on, so there's less fluctuation and lower power consumption. And its twin eccentric cams and two balance weights create extremely low levels of vibration, contributing to a smoother and quieter all-round performance.

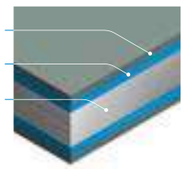


Optimized Heat Exchanger

The DVM S Mini has an optimised heat exchanger which combines Corrugated Fins with a newly designed fan to enhance its heat exchange efficiency.

PHE (Plate Heat Exchanger) Sub-cooler

The DVM S Mini features a PHE sub-cooler that expands the heat exchange area to enhance its cooling efficiency and deliver even greater energy savings.



Dual Coated Aluminium Fins

The Dual Coated Aluminium Fins have an anti-corrosive layer of epoxy acrylic and a hydrophilic layer of acrylic resin and surfactant that disperses water, so it doesn't inhibit the heat exchange rate.

* Specific features may vary by model and capacity.

Flexible Installation

Fits in many more places

Make the best use of valuable space using the Samsung DVM S Mini outdoor unit. With a compact design and flexible connectivity, it's much easier to install in a much wider choice of locations.

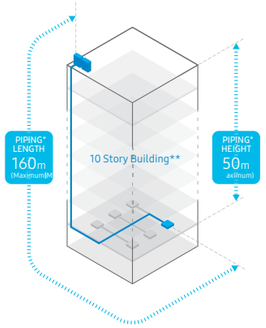
Feel more comfortable in any size space

Compact Size (Small Footprint and Volume)

DVM S Mini Mighty overall volume is much less than the equivalent Samsung top-discharge models, an ideal space saving option for installations where space is limited.

Works at up to 50m*

High Elevation with Long Piping



Enjoy more choice when selecting the optimum installation location. It has a maximum piping length of up to 160 meters (525 feet)* between the outdoor and indoor units. It also works efficiently and reliably at an elevation of up to 50 meters (164 feet)*, which is the equivalent of 10 stories**.

* Maximum piping length and height may vary by models.
** Based on the assumption that the height of a story is 5m. May vary depending on the location of indoor units.

Connects more ways

4-Way Piping*

The DVM S Mini has 4-Ways for pipe connections: front, side, bottom, and rear, so it gives you much more flexibility. It can be configured to suit almost any room without additional fittings, while still being discretely concealed.

* Only available on certain models.

DVM S Mini Mighty

Three phase power supply

- Designed with good energy efficiency means lower power consumption
- Large capacity and connectable number of indoor units means you can air condition more spaces and with precision control to meet your comfort needs
- Large separation between indoor and outdoor means you can position the outdoor unit further away, not interfering with your outdoor living space

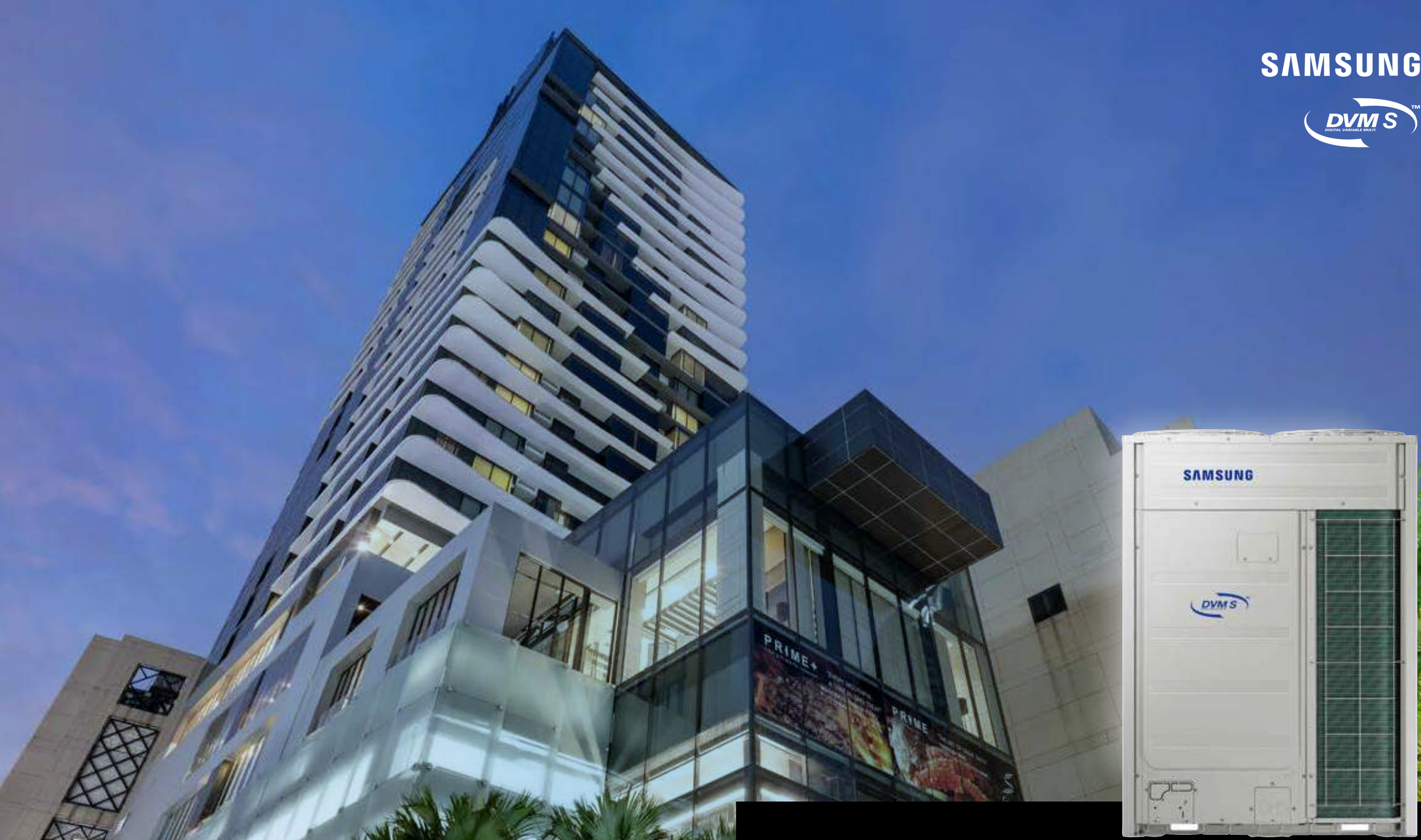
Model			AM080FXMDGH/EU	AM100KXMDGH/EU	AM120KXMDGH/EU	AM140KXMDGH/EU
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Capacity (Nominal)	Rating	HP	8	10	12	14
	Cooling[1]	kW	22.4	28.0	33.5	40.0
	Heating[2]	kW	25.0	31.5	37.5	45.0
Maximum Number of Connectable Indoor Units			13	18	21	26
Connectable Total Indoor Capacity	Minimum	kW	11.2	14.0	16.8	20.0
	Maximum	kW	29.1	36.4	43.6	52.0
Current	MCA[4]	A	18.0	21.5	23.5	32.0
	MFA[4]	A	25.0	30.0	30.0	40.0
Energy Efficiency Ratio	Cooling[1]	W/W	3.90	3.84	3.82	3.78
	Heating[2]	W/W	5.10	4.67	4.79	4.55
Compressor	Type		Inverter Scroll	Inverter Scroll	Inverter Scroll	Inverter Scroll
	Oil Type		PVE	PVE	PVE	PVE
Fan	Type		Propeller	Propeller	Propeller	Propeller
	Quantity		2	2	2	2
	Airflow Rate	l/s	1667	2750	2767	3000
	External Static Pressure	Pa	29	29	29	29
Piping Connections	Liquid Pipe	mm/inch	9.52, 3/8"	9.52, 3/8"	12.7, 1/2"	12.7, 1/2"
	Gas Pipe	mm/inch	19.05, 3/4"	22.22, 7/8"	28.6, 1-1/8"	28.6, 1-1/8"
Allowable Piping Length	Piping Length, Outdoor to Indoor. Maximum (Equivalent)	m	100 (130)	160 (185)	160 (185)	160 (185)
	Piping Height. Outdoor Above (Outdoor Below)	m	30 (30)	50 (40)	50 (40)	50 (40)
Unit Weight		kg	135	145	155	162
External Dimension	W x H x D	mm	940 x 1,420 x 330	940 x 1,630 x 460	940 x 1,630 x 460	940 x 1,630 x 460
Factory Charge	R410A	kg	3.3	3.7	4.3	4.8
Sound[3]	Sound Pressure - Cooling	dB(A)	56	58	59	62
	Sound Pressure - Heating	dB(A)	58	60	61	64
	Sound Power	dB(A)	74	74	76	79
Operating Ambient Temperature Range	Cooling	°C	-5 to 48°C	-5 to 52°C	-5 to 52°C	-5 to 52°C
	Heating	°C	-20 to 24°C	-25 to 24°C	-25 to 24°C	-25 to 24°C

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

1) Nominal cooling capacities are based on - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
2) Nominal heating capacities are based on - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
3) Sound level was acquired in anechoic room, thus actual noise level may be different depending on installation conditions.
4) MCA : Minimum Circuit Amps, MFA : Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

SAMSUNG

DVM S™
DIGITAL VARIABLE MULTI



Top Discharged, Air Cooled

An extreme climate doesn’t matter any more.
Enjoy comfort without compromise.

Top Discharged, Air Cooled

The Digital Variable Multi System (DVM S) is an advanced cooling and heating system designed for residential and commercial buildings, from large high-rises to smaller shops. DVM S features a small footprint and light weight, making it an ideal fit for most buildings.

The DVM S includes new third-generation Samsung Scroll Compressor (SSC) technology, which is designed to operate more smoothly, quietly and reliably than conventional compressors. With its Dual Smart Inverter (DSI) system, DVM S offers high energy efficiency and powerful heating and cooling performance. Straight forward monitoring helps tenants, office workers and building managers stay informed of the system's status.

DVM S Heat Recovery

DVM S Heat Pump

Benefits of our DVM S Systems

Gigantic Capacity – one system that does the work of two or more

Large heating and cooling capacity

Our DVM S units offer a large 30HP capacity in a single unit.
This means you can experience the ultimate heating and cooling capacity while optimising space with an efficiently sized design.

Delivers more power, saves valuable space and costs

Save valuable space and management costs without compromising on performance. The DVM S was the first outdoor unit in the world to offer a 30HP capacity in a single unit. The combination of its small footprint and large capacity means you can replace multiple lower capacity conventional models with fewer units, but still enjoy the same performance. So you can reduce the time and cost of transport, installation, parts and maintenance, while also saving up to 40% space*.

30HP Large Capacity DVM S in a Single Unit

Better Efficiency and Reliability

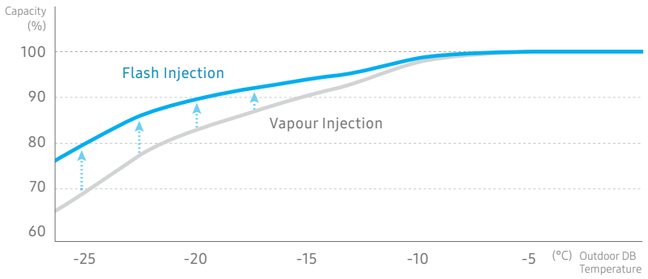
* Based on internal testing. Space required: DVM S 30HP = 0.99m2 vs. Conventional outdoor unit (18HP + 12HP) = 1.66m2.

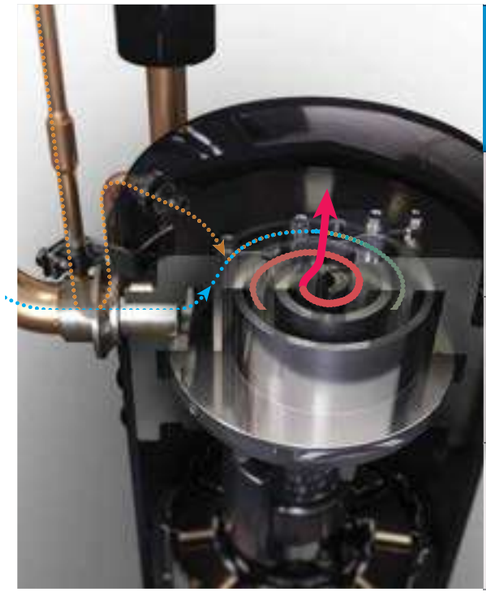
Heating Performance

Reliably & Intelligently keeps heating

Our DVM S systems are designed to optimize heating. An Enhanced Flash Injection delivers reliable heating at lower temperatures by increasing the flow of refrigerant by 32% at -25°C*. This allows the compressor to continue working reliably.

The system also allows for more continuous heating and less defrosting through a rotational defrost operation. An intelligent defrost technology evaluates the system's air resistance as well as its operating frequency and cycle. So it defrosts more precisely, reducing wasted energy.

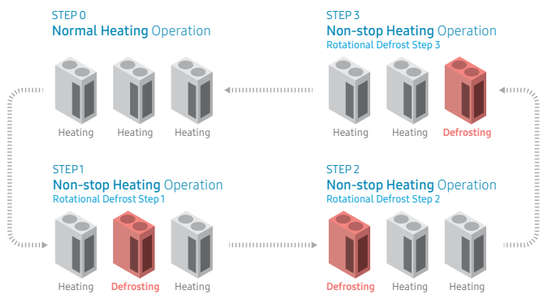




More continuous heating, less defrosting

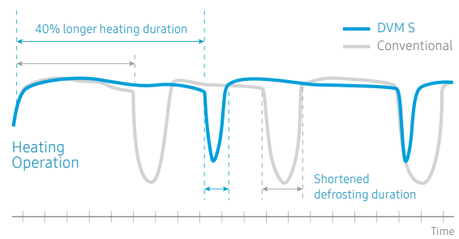
Rotational Defrost Operation**

The DVM S delivers a continuous heating performance using innovative Rotational Defrost for reliable warmth and comfort.



Intelligent Defrost Technology

Intelligent Defrost technology evaluates the system's air resistance as well as its operating frequency and cycle. So it defrosts more precisely, reducing wasted energy and increasing the continuous heating time by up to 40%***.

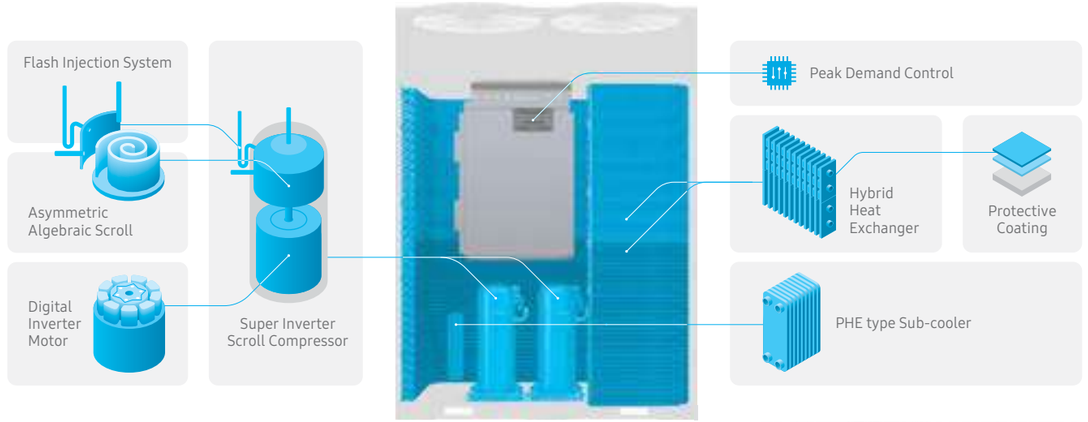


* Based on internal testing. Results may vary depending on environmental factors and individual use.
** Available only on DVM S HR (Heat Recovery) models.
*** Based on internal testing. Heating time at -10°C over a period of 6 hours: Samsung DVM S 30HP = 180 minutes vs. conventional outdoor unit = 110 minutes. Results may vary depending on environmental factors and individual use.

Benefits of our DVM S Systems

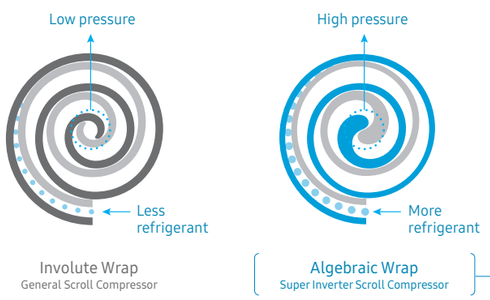
Efficiency – Saves energy, as well as space and costs

The Samsung DVM S includes a range of smart technologies that combine to deliver world-class energy efficiency and economy, achieving a much better Energy Efficiency Rating.



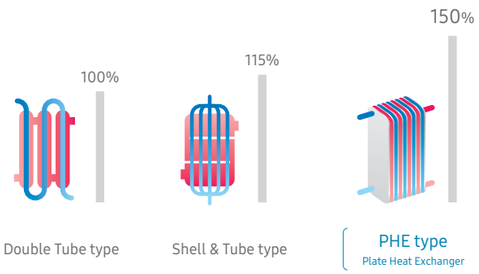
Large High-efficiency Compressor

Super Inverter Scroll Compressor* with a range of innovative technologies provides a better compression performance. Its 80cc capacity enables a displacement increase of 14.3%**.



Hybrid Heat Exchanger

Creates a uniform, relaxing airflow that generates 17% more air volume than conventional systems, through an innovative combination of two different fin types**.

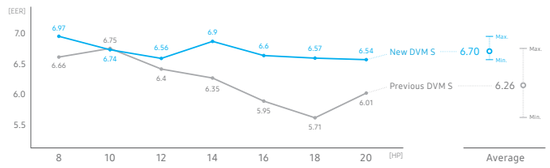


* Only available in certain capacity models.
** Based on internal testing. Compressor displacement: DVM S 30HP=80cc vs. previous Samsung outdoor model=70cc.

Proven to work more efficiently

Top-class Energy Efficiency

Save energy by doing nothing! The Samsung DVM S outdoor unit delivers top-class energy efficiency, based on its exceptional energy efficiency in various areas of the world. By combining various smart technologies it is up to 7% more efficient than previous models in terms of EERa*. In fact, the high efficiency of all of our products, across a range of capacities, is certified by global leading institutions, so they are proven to deliver tangible savings.

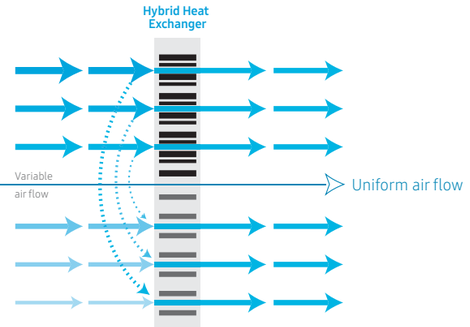


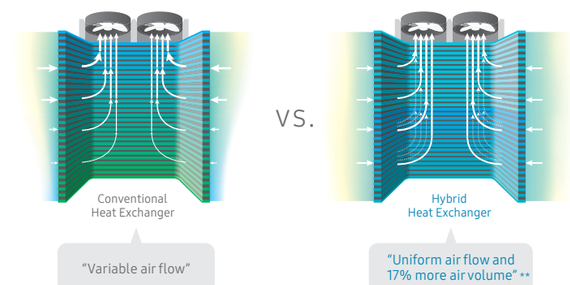
* Based on Korea's Energy Efficiency Rating (Avg). EERa: New DVM S = 6.70, Previous DVM S = 6.26.

Uniform air flow, efficient performance

Hybrid Heat Exchanger

Enjoy more consistent and efficient cooling and heating. Conventional Heat Exchangers have the same fin shape from top to bottom, so the wind speed varies depending on the distance from the top fan. The DVM S outdoor unit has a Hybrid Heat Exchanger* that combines two different types of fin to create a uniform air flow and generate a total air volume that's 17% more than conventional systems**. So it performs more effectively and efficiently by optimizing the exchange of energy.



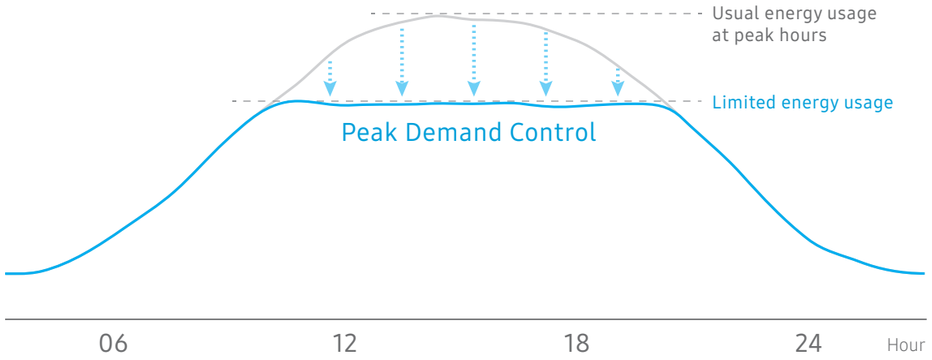


* Only available in certain models.
** Based on internal testing. Uniform wind speed: Hybrid Heat Exchanger=340CMM vs. Samsung previous model Heat Exchanger=290CMM. Results may vary depending on environmental factors and individual use.

Benefits of our DVM S Systems

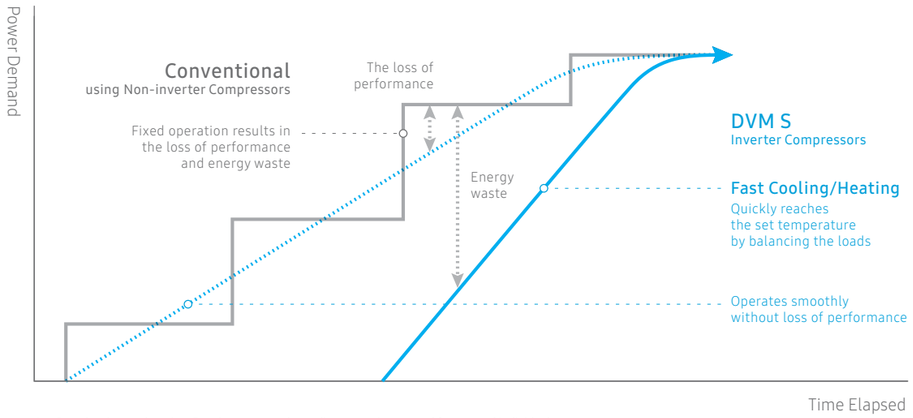
Peak Demand Control

To help businesses better manage power consumption and related costs, the DVM S offers power-demand control for peak hours and seasons. This is especially useful when the electrical supply is insufficient or when businesses want to block excessive and wasteful energy usage.



Dual Smart Inverter (DSI) System

Helps to prevent waste with quick cooling and heating. The system includes a digital inverter compressor.
Both compressors operate simultaneously, providing balanced oil distribution for improved energy efficiency.
In addition, the upgraded Vapour Injection System increases refrigerant flow by 20% compared to conventional products*.



* Based on internal testing. Results may vary depending on environmental factors and individual use.

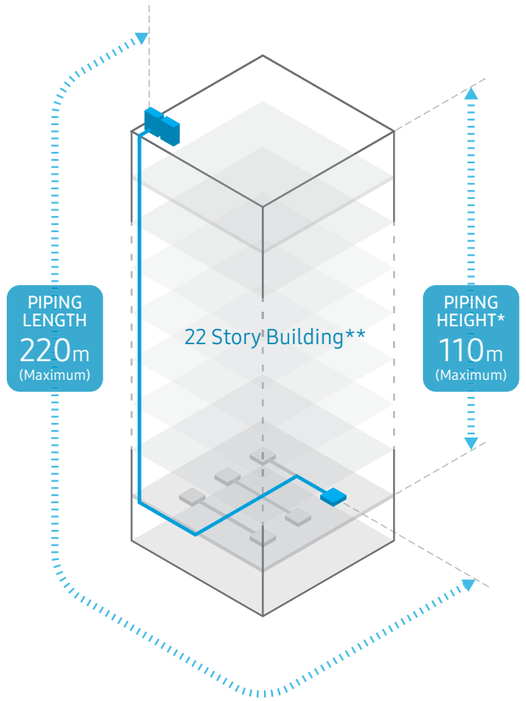
Flexible Installation and Maintenance

More places, less hassle

Extended Piping of up to 220 meters (721 feet) length, with efficient and reliable use at up to 110 meters of elevation allows for service for 22 stories.

Optimized Refrigerant Distribution compensates for this long piping and ensures balanced performance between units.

Samsung's pump-down and pump-out technology, means maintenance is streamlined as refrigerant can be recovered into the indoor units if an outdoor unit or pipe requires maintenance, or if an indoor unit needs to be moved.



Total Piping Length	Longest Piping Length after 1st Branch	Actual Longest Piping Length	Height Difference between outdoor and indoor units
1,000m (Maximum)	90m (Maximum)	220m (Maximum)	110m* (Maximum)

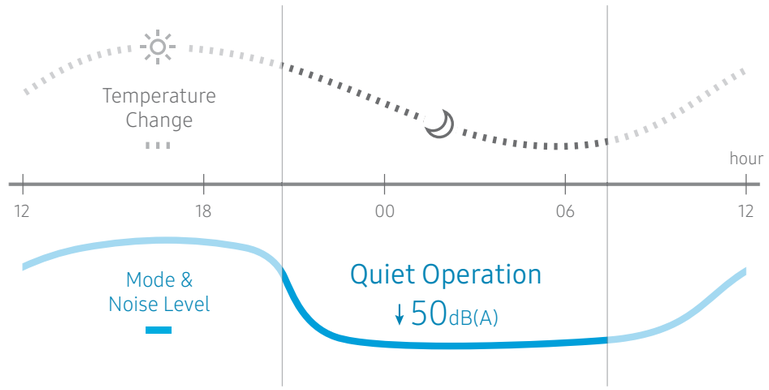
* When the piping height is over 50m, a PDM (Pressure Drop Modulation) Kit may be required depending on the conditions at the installation location.
** Based on the assumption that the height of a story is 5m. Height will vary depending on the location of indoor units.

Benefits of our DVM S Systems

Premium Comfort – Perfectly optimised in all climates

Wide Temperature Spectrum ensures comfort in all seasons. The DVM S can cool in heat of up to 48°C and warm in temperatures as low as -25°C.

Easy Temperature Control with the Discharge Air Temperature Control. This enables operators to control the temperature of discharged air without having to change the outdoor unit's setting, providing year-round comfort whether in cooling or heating mode.



Quiet Operation means a quiet night's sleep, every night. The noise control system lowers the level of noise to below 50dB(A)^, which is more quiet than normal conversation. The timer can be set for up to 12 hours, allowing people around the installation to not be disturbed at night.

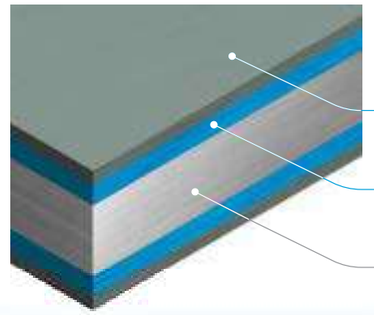
^ Based on internal testing. Results may vary depending on environmental factors and individual use.

Reliability and Durability

Works longer and more consistently

Corrosion and frost resistant

Delay frost formation for a consistent heating performance and prevent corrosion. A protective coating on the Heat Exchanger has an anti-corrosive layer of epoxy acrylic and a hydrophilic layer of acrylic resin and surfactant that disperses water, so it doesn't inhibit the heat exchange rate.



Benefits of our DVM S Systems

Smart Management

Simpler to monitor and control

Cool the space from anywhere

Connect your Samsung AC to your WiFi network using WiFi kit MIM-H04AN, (sold separately). Control your air conditioner from anywhere, at any time using the Samsung SmartThings App. You can control and monitor the air conditioner remotely with just a touch. The WiFi kit helps you to centrally control your Samsung TV, appliances and other compatible smart devices. All you need to do is download the Samsung SmartThings App* to easily check the list of connected compatible devices, name and status.

* Each SmartThings compatible device requires a network connection. Feature performance may vary based on distance and network quality. All devices should be registered with a single Samsung Account. Compatible devices and available features depend on country, region and carrier. Check compatible devices and available features at Samsung SmartThings App search or in the SmartThings app. A WiFi connection and compatible phone is required.

Accessibility

Smart Management

Simpler to monitor and control

Wherever you are and whatever you want to do, the Samsung DVM S has a range of smart management capabilities that make life much simpler.

Smart monitoring and solve issues

S-Converter

With the S-converter, you can access the system using your laptop to monitor its operational status or data whenever you needed. In self-diagnosis mode, it automatically monitors its performance and displays an error code if it detects anything abnormal, you can then check and address the issue promptly.

Easy access without opening the cover

Display Window

Using a small opening on the outdoor unit, it is easy to check its status and set options, without having to remove the entire front cover.

Simply restore data for repair and recovery

Automatic Data Backup

If a malfunction occurs, the DVM S automatically backs up the last 30 minute of operational data to make the repair and recovery process easier.

Benefits of our DVM S Systems

Reliability & Durability

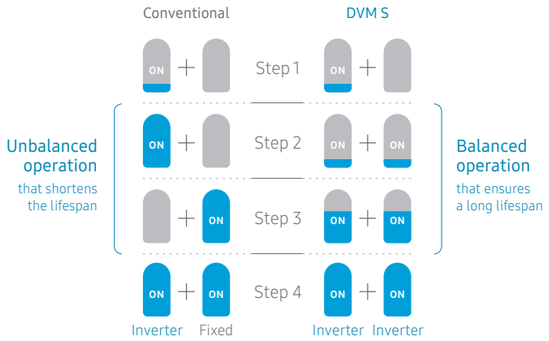
Works longer and more consistently

The Samsung DVM S is designed to deliver a long-lasting and consistently effective performance in wide range of locations and the most challenging operating conditions.

Balanced operation for extra durability

Digital Inverter System

Enjoy a lasting performance and lower maintenance costs. The Samsung Digital Inverter system efficiently balances the operation of the compressors. It ensures that they are more durable and have a longer lifespan*, reducing the cost of maintenance and replacement products or parts.



* Based on internal testing. Results may vary depending on environmental factors and individual use.

Reduces the effect of ambient conditions

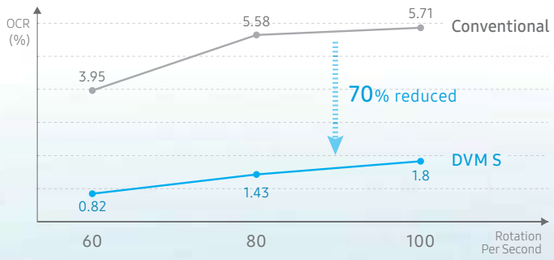
Circuit Cooling System using Refrigerant

Minimize the effect on performance of changes in the ambient temperature. A Circuit Cooling System uses refrigerant that radiates heat from the inverter circuit more consistently than conventional air cooling. So it delivers a reliable performance even when the external temperature fluctuates.

Rely on resilient performance

Large Oil Storage Capacity

With its large oil storage capacity and low Oil Circulation Ratio (OCR), the DVM S can ensure a reliable performance even for installations with long piping and high elevation.



Combines incredible features

Our DVM S Heat Pump System combines innovative technologies to deliver you a seamless installation and user experience.

With a wide range of capacities, this system offers something for everyone. Designed for flexibility and comfort, it combines with a wide variety of indoor unit options.

Flexibility. Comfort. Performance.

Gigantic Capacity

—

30HP Large Capacity in a Single Unit

Heating Performance

—

Flash Injection Technology

Rotational Defrost Operation

Intelligent Defrost Technology

Efficiency

—

Large High-efficiency Compressor

Hybrid Heat Exchanger

Peak Demand Control

Digital Inverter Compressor

Installation & Maintenance

—

High Elevation with Long Piping

Optimized Refrigerant Distribution Control

All-year Comfort

—

Wide Temperature Spectrum

Easy Temperature Control

Quiet Operation

Smart Management

—

Smart WiFi

Display Window

Automatic Data Backup

Reliability & Durability

—

Digital Inverter System

Circuit Cooling System using Refrigerant

Protective Coating

Large Oil Storage Capacity

Top Discharged, Air Cooled

Heat Pump

Outdoor Unit Line-Up

Capa (HP)	Model Name	Model	Capa (HP)	Model Name	Model
8 10 12	AM080JXVHGH/EU AM0100JXVHGH/EU AM0120JXVHGH/EU		14 16 18 20 22	AM140KXVAGH/EU AM160KXVAGH/EU AM180KXVAGH/EU AM200KXVAGH/EU AM220KXVAGH/EU	
24 26 28 30	AM240KXVAGH/EU AM260KXVAGH/EU AM280KXVAGH/EU AM300KXVAGH/EU		32 34	AM320KXVAGH/EU AM340KXVAGH/EU	
36 38 40 42	AM360KXVAGH/EU AM380KXVAGH/EU AM400KXVAGH/EU AM420KXVAGH/EU		44 46 48 50 52	AM440KXVAGH/EU AM460KXVAGH/EU AM480KXVAGH/EU AM500KXVAGH/EU AM520KXVAGH/EU	
54 56 58 60	AM540KXVAGH/EU AM560KXVAGH/EU AM580KXVAGH/EU AM600KXVAGH/EU		62 64	AM620KXVAGH/EU AM640KXVAGH/EU	
66 68 70 72 74	AM660KXVAGH/EU AM680KXVAGH/EU AM700KXVAGH/EU AM720KXVAGH/EU AM740KXVAGH/EU		76 78 80 82	AM760KXVAGH/EU AM780KXVAGH/EU AM800KXVAGH/EU AM820KXVAGH/EU	
84 86 88 90	AM840KXVAGH/EU AM860KXVAGH/EU AM880KXVAGH/EU AM900KXVAGH/EU				

Top Discharged, Air Cooled

Heat Pump

Combination Table

System Model			Capacity of Single Unit (HP)										
Capa (HP)	Code	No. of Modules	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP
8HP	AM080JXVHGH/EU	1	1											
10HP	AM100JXVHGH/EU	1		1										
12HP	AM120JXVHGH/EU	1			1									
14HP	AM140KXVAGH/EU	1				1								
16HP	AM160KXVAGH/EU	1					1							
18HP	AM180KXVAGH/EU	1						1						
20HP	AM200KXVAGH/EU	1							1					
22HP	AM220KXVAGH/EU	1								1				
24HP	AM240KXVAGH/EU	1									1			
26HP	AM260KXVAGH/EU	1										1		
28HP	AM280KXVAGH/EU	1											1	
30HP	AM300KXVAGH/EU	1												1
32HP	AM320KXVAGH/EU	2			1				1					
34HP	AM340KXVAGH/EU	2			1					1				
36HP	AM360KXVAGH/EU	2				1				1				
38HP	AM380KXVAGH/EU	2					1			1				
40HP	AM400KXVAGH/EU	2						1		1				
42HP	AM420KXVAGH/EU	2							1	1				
44HP	AM440KXVAGH/EU	2				1								1
46HP	AM460KXVAGH/EU	2					1							1
48HP	AM480KXVAGH/EU	2						1						1
50HP	AM500KXVAGH/EU	2							1					1
52HP	AM520KXVAGH/EU	2								1				1
54HP	AM540KXVAGH/EU	2									1			1
56HP	AM560KXVAGH/EU	2										1		1
58HP	AM580KXVAGH/EU	2											1	1
60HP	AM600KXVAGH/EU	2												2
62HP	AM620KXVAGH/EU	3		1						1				1
64HP	AM640KXVAGH/EU	3			1					1				1
66HP	AM660KXVAGH/EU	3				1				1				1
68HP	AM680KXVAGH/EU	3					1			1				1
70HP	AM700KXVAGH/EU	3						1		1				1
72HP	AM720KXVAGH/EU	3							1	1				1
74HP	AM740KXVAGH/EU	3								2				1
76HP	AM760KXVAGH/EU	3								1	1			1
78HP	AM780KXVAGH/EU	3								1		1		1
80HP	AM800KXVAGH/EU	3								1			1	1
82HP	AM820KXVAGH/EU	3								1				2
84HP	AM840KXVAGH/EU	3									1			2
86HP	AM860KXVAGH/EU	3										1		2
88HP	AM880KXVAGH/EU	3											1	2
90HP	AM900KXVAGH/EU	3												3

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

Top Discharged, Air Cooled Heat Pump

Single Module Systems



Model Name				AM080JXVAGH/EU	AM100JXVAGH/EU	AM120JXVAGH/EU	AM140KXVAGH/EU	AM160KXVAGH/EU	AM180KXVAGH/EU	AM200KXVAGH/EU	AM220KXVAGH/EU	AM240KXVAGH/EU	AM260KXVAGH/EU	AM280KXVAGH/EU	AM300KXVAGH/EU
Type				Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Performance	Nominal Capacity[1]		HP	8	10	12	14	16	18	20	22	24	26	28	30
		Cooling	kW	22.4	28.0	33.6	40.0	45.0	50.4	56.0	61.6	67.2	72.8	78.6	84
		Heating	kW	25.2	31.5	37.8	45.0	50.4	56.7	63.0	69.3	75.6	81.9	88.2	94.5
Maximum Number of Connectable Indoor Units			EA	14	18	21	26	29	32	36	40	43	47	51	54
Total Connectable Indoor Unit Capacity[2]		Minimum	kW	11.2	14.0	16.8	20.0	22.5	25.2	28.0	30.8	33.6	36.4	39.3	42
		Maximum	kW	29.1	36.4	43.7	52.0	58.5	65.5	72.8	80.1	87.4	94.6	102.2	109.2
Efficiency	EER (Nominal)	Cooling	W/W	4.48	4.09	4.12	3.66	3.72	4.00	3.95	3.55	3.93	3.85	3.8	3.7
	COP (Nominal)	Heating	W/W	4.94	4.74	4.71	4.43	4.34	4.76	4.53	4.15	4.34	4.55	4.37	4.59
	ESEER		W/W	7.85	7.25	7.03	7.02	6.81	6.61	6.56	6.25	7.06	6.92	6.83	6.65
Sound	Sound Pressure[3]	Cooling	dB(A)	57	58	62	61	63	64	65	65	66	66	69	69
		Heating	dB(A)	59	60	64	63	65	66	67	67	68	68	71	71
	Sound Power[4]		dB(A)	77	79	81	81	83	84	87	89	89	89	90	90
Power	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
	Power Input (Nominal)	Cooling	kW	5.0	6.9	8.2	10.9	12.1	12.6	14.2	17.4	17.1	18.9	20.7	22.7
		Heating	kW	5.1	6.7	8.0	10.2	11.6	11.9	13.9	16.7	17.4	18.0	20.2	20.6
	Minimum Circuit Amps	MCA[7]	A	18.0	21.1	25.0	25.0	32.0	39.2	42.0	44.6	55	60	67	73
	Maximum Fuse Amps	MFA[7]	A	25	32	32	32	40	50	63	63	63	75	75	80
Compressor	Model Name			DS-GA046FAVADO x 1	DS-GB066FAVB x 1	DS-GB066FAVB x 1	DS-GB066FAVB x 1	DS4GJ5080FVA x 1	DS4GJ5080FVA x 1	DS-GB052FAVB x 2	DS-GB066FAVB x 2	DS-GB066FAVB x 2	DS-GB066FAVB x 2	DS-GB070FAVA x 2	DS4GJ5080FVA x 2
	Oil	Type		PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE
Fan	Type			Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Discharge Direction			Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top
	Quantity		EA	1	1	1	2	2	2	2	2	2	2	2	2
	Air Flow Rate (Nominal)		l/s	2,833	2,833	3,667	4,250	4,250	4,833	4,833	4,833	5667	5667	5667	5667
	External Static Pressure	Maximum	Pa	78	78	78	78	78	78	78	78	78	78	78	78
Piping Connection[6]	Liquid Pipe		Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)	12.70 (1/2)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Φ, mm (inch)	19.05 (3/4)	22.22 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)
External Dimension	Net Weight		kg	186.0	197.0	210.0	226.0	253.0	255.0	277.0	285.0	333.0	333.0	342.0	350.0
	Shipping Weight		kg	202.0	213.0	226.0	246.0	273.0	275.0	297.0	305.0	355.0	355.0	364.0	372.0
	Net Dimensions (WxHxD)		mm	880 x 1,695 x 765	880 x 1,695 x 765	880 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,795 x 765	1,295 x 1,795 x 765	1,295 x 1,795 x 765	1,295 x 1,795 x 765
	Shipping Dimensions (WxHxD)		mm	948 x 1,887 x 832	948 x 1,887 x 832	948 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,987 x 832	1,363 x 1,987 x 832	1,363 x 1,987 x 832	1,363 x 1,987 x 832
Operating Temperature Range	Cooling		℃	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB .
   - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB.
2) Connection ratio is recommended to be in the range of 50% to 130%.
3) Sound pressure level is obtained in an anechoic room.
   - Sound pressure level is a relative value, depending on the distance and acoustic environment.
   - Sound pressure level may differ depending on operation condition.
   - dBA = A-weighted sound pressure level.
   - Reference acoustic pressure 0 dB = 20uPa.
4) Sound power level is an absolute value that a sound source generates.
   - dBA = A-weighted sound power level.
   - Reference power : 1pW.
   - Measured according to ISO 3741.
5) Sound values of multi combination are theoretical values based on sound results of individual installed units.
6) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under. If the level difference is higher than 50m, PDM kit (Pressure Drop Modulation kit) may be required. When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
7) MCA: Minimum Circuit Amps, MFA: Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

Top Discharged, Air Cooled Heat Pump

Modular Systems




Model Name				AM320KXVAGH/EU	AM340KXVAGH/EU	AM360KXVAGH/EU	AM380KXVAGH/EU	AM400KXVAGH/EU	AM420KXVAGH/EU	AM440KXVAGH/EU	AM460KXVAGH/EU	AM480KXVAGH/EU	AM500KXVAGH/EU	AM520KXVAGH/EU	AM540KXVAGH/EU	AM560KXVAGH/EU	AM580KXVAGH/EU	AM600KXVAGH/EU
Outdoor Unit Module 1				AM100JXVAGH/EU	AM120JXVAGH/EU	AM140KXVAGH/EU	AM160KXVAGH/EU	AM180KXVAGH/EU	AM200KXVAGH/EU	AM220KXVAGH/EU	AM160KXVAGH/EU	AM180KXVAGH/EU	AM200KXVAGH/EU	AM220KXVAGH/EU	AM240KXVAGH/EU	AM260KXVAGH/EU	AM280KXVAGH/EU	AM300KXVAGH/EU
Outdoor Unit Module 2				AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU
Type				Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Performance	Nominal Capacity[1]		HP	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
		Cooling	kW	89.6	95.2	101.6	106.6	112	117.6	123.2	129	134.4	140	145.6	151.2	156.8	162.6	168
		Heating	kW	100.8	107.1	114.3	119.7	126	132.3	138.6	144.9	151.2	157.5	163.8	170.1	176.4	182.7	189
Maximum Number of Connectable Indoor Units			EA	58	61	64	64	64	64	64	64	64	64	64	64	64	64	64
Total Connectable Indoor Unit Capacity[2]		Minimum	kW	44.8	47.6	50.8	53.3	56	58.8	61.6	64.5	67.2	70	72.8	75.6	78.4	81.3	84
		Maximum	kW	116.5	123.8	132.1	138.6	145.6	152.9	160.2	167.7	174.7	182	189.3	196.6	203.8	211.4	218.4
Efficiency	EER (Nominal)	Cooling	W/W	3.7	3.73	3.59	3.62	3.74	3.73	3.55	3.71	3.81	3.8	3.64	3.8	3.77	3.75	3.7
	COP (Nominal)	Heating	W/W	4.32	4.33	4.26	4.23	4.4	4.32	4.15	4.5	4.65	4.57	4.39	4.48	4.57	4.48	4.59
	ESEER		W/W	6.56	6.53	6.55	6.49	6.41	6.4	6.25	6.71	6.64	6.61	6.48	6.83	6.78	6.74	6.65
Sound[5]	Sound Pressure[3]	Cooling	dB(A)	66	67	66	67	68	68	68	70	70	70	70	71	71	72	72
		Heating	dB(A)	68	69	68	69	70	70	70	72	72	72	72	73	73	74	74
	Sound Power[4]		dB(A)	89	90	90	90	90	91	92	91	91	92	93	93	93	93	93
Power	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
	Power Input (Nominal)	Cooling	kW	24.2	25.5	28.3	29.5	30.0	31.5	34.7	34.8	35.3	36.9	40.1	39.8	41.6	43.4	45.4
		Heating	kW	23.4	24.7	26.9	28.3	28.6	30.6	33.4	32.2	32.5	34.5	37.3	38.0	38.6	40.8	41.2
	Minimum Circuit Amps	MCA[7]	A	65.7	69.6	69.6	76.6	83.8	86.6	89.2	105	112.2	115	117.6	128	133	140	146
	Maximum Fuse Amps	MFA[7]	A	80	80	80	90	100	100	100	125	125	150	150	150	150	175	175
Compressor	Model Name			DS-GB066FAVB x 3	DS-GB066FAVB x 3	DS-GB066FAVB x 3	DS4GJ5080FVA x 1 + DSGB066FAVB x 2	DS4GJ5080FVA x 1 + DSGB066FAVB x 2	DS-GB052FAVBx2 + DSGB066FAVBx2	DS-GB066FAVBx4	DS4GJ5080FVA x 3	DS4GJ5080FVA x 3	DS-GB052FAVB x 2 + DS4GJ5080FVA x 2	DS-GB066FAVB x 2 + DS4GJ5080FVA x 2	DS-GB066FAVB x 2 + DS4GJ5080FVA x 2	DS-GB066FAVB x 2 + DS4GJ5080FVA x 2	DS-GB070FAVA x 2 + DS4GJ5080FVA x 2	DS4GJ5080FVA x 4
	Oil	Type		PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE
Fan	Type			Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Discharge Direction			Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top
	Quantity		EA	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
	Air Flow Rate (Nominal)		l/s	2,833 x 1 + 4,833 x 1	3,667 x 1 + 4,833 x 1	4,250 x 1 + 4,833 x 1	4,250 x 1 + 4,833 x 1	4,833 x 2	4,833 x 2	4,833 x 2	4,250 x 1 + 5,667 x 1	4,833 x 1 + 5,667 x 1	4,833 x 1 + 5,667 x 1	4,833 x 1 + 5,667 x 1	5,667 x 2	5,667 x 2	5,667 x 2	5,667 x 2
	External Static Pressure	Maximum	Pa	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Piping Connection[6]	Liquid Pipe		Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Φ, mm (inch)	34.92 (1-3/8)	34.92 (1-3/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
External Dimension	Net Weight		kg	197.0 x 1 + 285.0 x 1	210.0 x 1 + 285.0 x 1	226.0 x 1 + 285.0 x 1	253.0 x 1 + 285.0 x 1	255.0 x 1 + 285.0 x 1	277.0 x 1 + 285.0 x 1	285.0 x 2	253.0 x 1 + 350.0 x 1	255.0 x 1 + 350.0 x 1	277.0 x 1 + 350.0 x 1	285.0 x 1 + 350.0 x 1	333.0 x 1 + 350.0 x 1	333.0 x 1 + 350.0 x 1	342.0 x 1 + 350.0 x 1	350.0 x 2
	Shipping Weight		kg	213.0 x 1 + 305.0 x 1	226.0 x 1 + 305.0 x 1	246.0 x 1 + 305.0 x 1	273.0 x 1 + 305.0 x 1	275.0 x 1 + 305.0 x 1	297.0 x 1 + 305.0 x 1	305.0 x 2	273.0 x 1 + 372.0 x 1	275.0 x 1 + 372.0 x 1	297.0 x 1 + 372.0 x 1	305.0 x 1 + 372.0 x 1	355.0 x 1 + 372.0 x 1	355.0 x 1 + 372.0 x 1	364.0 x 1 + 372.0 x 1	372.0 x 2
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x1	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x1	(1,295 x 1,795 x 765) x 2	(1,295 x 1,795 x 765) x 2	(1,295 x 1,795 x 765) x 2	(1,295 x 1,795 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x1	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x1	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x1	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x1	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x1	(1,363 x 1,987 x 832) x 2	(1,363 x 1,987 x 832) x 2	(1,363 x 1,987 x 832) x 2	(1,363 x 1,987 x 832) x 2
Operating Temperature Range	Cooling		℃	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB .
   - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB.
2) Connection ratio is recommended to be in the range of 50% to 130%.
3) Sound pressure level is obtained in an anechoic room.
   - Sound pressure level is a relative value, depending on the distance and acoustic environment.
   - Sound pressure level may differ depending on operation condition.
   - dBA = A-weighted sound pressure level.
   - Reference acoustic pressure 0 dB = 20uPa.
4) Sound power level is an absolute value that a sound source generates.
   - dBA = A-weighted sound power level.
   - Reference power : 1pW.
   - Measured according to ISO 3741.
5) Sound values of multi combination are theoretical values based on sound results of individual installed units.
6) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under. If the level difference is higher than 50m, PDM kit (Pressure Drop Modulation kit) may be required. When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
7) MCA: Minimum Circuit Amps, MFA: Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

Top Discharged, Air Cooled Heat Pump

Modular Systems




Model Name				AM620KXVAGH/EU	AM640KXVAGH/EU	AM660KXVAGH/EU	AM680KXVAGH/EU	AM700KXVAGH/EU	AM720KXVAGH/EU	AM740KXVAGH/EU	AM760KXVAGH/EU	AM780KXVAGH/EU	AM800KXVAGH/EU	AM820KXVAGH/EU	AM840KXVAGH/EU	AM860KXVAGH/EU	AM880KXVAGH/EU	AM900KXVAGH/EU
Outdoor Unit Module 1				AM100JXVAGH/EU	AM120JXVAGH/EU	AM140KXVAGH/EU	AM160KXVAGH/EU	AM180KXVAGH/EU	AM200KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM240KXVAGH/EU	AM260KXVAGH/EU	AM280KXVAGH/EU	AM300KXVAGH/EU
Outdoor Unit Module 2				AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM220KXVAGH/EU	AM240KXVAGH/EU	AM260KXVAGH/EU	AM280KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU
Outdoor Unit Module 3				AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU	AM300KXVAGH/EU
Type				Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Performance	Nominal Capacity[1]		HP	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
		Cooling	kW	173.6	179.2	185.6	190.6	196.0	201.6	207.2	212.8	218.4	224.2	229.6	235.2	240.8	246.6	252
		Heating	kW	195.3	201.6	208.8	214.2	220.5	226.8	233.1	239.4	245.7	252.0	258.3	264.6	270.9	277.2	283.5
Maximum Number of Connectable Indoor Units			EA	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Total Connectable Indoor Unit Capacity[2]		Minimum	kW	86.8	89.6	92.8	95.3	98.0	100.8	103.6	106.4	109.2	112.1	114.8	117.6	120.4	123.3	126
		Maximum	kW	225.7	233	241.3	247.8	254.8	262.1	269.4	276.6	283.9	291.5	298.5	305.8	313	320.6	327.6
Efficiency	EER (Nominal)	Cooling	W/W	3.7	3.72	3.64	3.65	3.72	3.72	3.61	3.72	3.70	3.69	3.66	3.76	3.74	3.73	3.7
	COP (Nominal)	Heating	W/W	4.44	4.45	4.4	4.38	4.48	4.43	4.32	4.38	4.44	4.38	4.46	4.52	4.58	4.52	4.59
	ESEER		W/W	6.6	6.58	6.6	6.56	6.51	6.50	6.41	6.66	6.63	6.60	6.54	6.77	6.73	6.71	6.65
Sound[5]	Sound Pressure[3]	Cooling	dB(A)	71	71	71	71	71	72	72	72	72	73	73	73	73	74	74
		Heating	dB(A)	73	73	73	73	73	74	74	74	74	75	75	75	75	76	76
	Sound Power[4]		dB(A)	93	93	93	93	93	94	94	94	94	94	94	94	94	95	95
Power	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
	Power Input (Nominal)	Cooling	kW	46.9	48.2	51.0	52.2	52.7	54.2	57.4	57.2	59.0	60.7	62.8	62.5	64.3	66.1	68.1
		Heating	kW	43.9	45.3	47.5	48.9	49.2	51.2	54.0	54.7	55.3	57.5	57.9	58.6	59.2	61.4	61.8
	Minimum Circuit Amps	MCA[7]	A	138.7	142.6	142.6	149.6	156.8	159.6	162.2	172.6	177.6	184.6	190.6	201	206	213	219
	Maximum Fuse Amps	MFA[7]	A	175	175	175	175	175	175	200	200	200	225	225	225	250	250	250
Compressor	Model Name			DS-GB066FAVB x 3 + DS4GJ5080FVA x 2	DS-GB066FAVB x 3 + DS4GJ5080FVA x 2	DS-GB066FAVB x 3 + DS4GJ5080FVA x 2	DS4GJ5080FVA x 3 + DSGB066FAVB x 2	DS4GJ5080FVA x 3 + DSGB066FAVB x 2	DS-GB052FAVB x 2 + DSGB066FAVB x 2 + DS4GJ5080FVA x 2	DS-GB066FAVB x 4 + DS4GJ5080FVA x 2	DS-GB066FAVB x 4 + DS4GJ5080FVA x 2	DS-GB066FAVB x 4 + DS4GJ5080FVA x 2	DS-GB066FAVB x 2 + DSGB070FAVA x 2 + DS4GJ5080FVA x 2	DS-GB066FAVB x 2 + DS4GJ5080FVA x 4	DS-GB066FAVB x 2 + DS4GJ5080FVA x 4	DS-GB066FAVB x 2 + DS4GJ5080FVA x 4	DS-GB070FAVA x 2 + DS4GJ5080FVA x 4	DS4GJ5080FVA x 6
	Oil	Type		PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE
Fan	Type			Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Discharge Direction			Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top
	Quantity		EA	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6
	Air Flow Rate (Nominal)		l/s	2,833 x 1 + 4,833 x 1 + 5,667 x 1	3,667 x 1 + 4,833 x 1 + 5,667 x 1	4,250 x 1 + 4,833 x 1 + 5,667 x 1	4,250 x 1 + 4,833 x 1 + 5,667 x 1	4,833 x 2 + 5,667 x 1	4,833 x 2 + 5,667 x 1	4,833 x 2 + 5,667 x 1	4,833 x 1 + 5,667 x 2	4,833 x 1 + 5,667 x 2	4,833 x 1 + 5,667 x 2	4,833 x 1 + 5,667 x 2	5,667 x 3	5,667 x 3	5,667 x 3	5,667 x 3
	External Static Pressure	Maximum	Pa	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Piping connection[6]	Liquid Pipe		Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
External Dimension	Net Weight		kg	197.0 x 1 + 285.0 x 1 + 350.0 x 1	210.0 x 1 + 285.0 x 1 + 350.0 x 1	226.0 x 1 + 285.0 x 1 + 350.0 x 1	253.0 x 1 + 285.0 x 1 + 350.0 x 1	255.0 x 1 + 285.0 x 1 + 350.0 x 1	277.0 x 1 + 285.0 x 1 + 350.0 x 1	285.0 x 2 + 350.0 x 1	285.0 x 1 + 333.0 x 1 + 350.0 x 1	285.0 x 1 + 333.0 x 1 + 350.0 x 1	285.0 x 1 + 342.0 x 1 + 350.0 x 1	285.0 x 1 + 350.0 x 2	333.0 x 1 + 350.0 x 2	333.0 x 1 + 350.0 x 2	342.0 x 1 + 350.0 x 2	350.0 x 3
	Shipping Weight		kg	213.0 x 1 + 305.0 x 1 + 372.0 x 1	226.0 x 1 + 305.0 x 1 + 372.0 x 1	246.0 x 1 + 305.0 x 1 + 372.0 x 1	273.0 x 1 + 305.0 x 1 + 372.0 x 1	275.0 x 1 + 305.0 x 1 + 372.0 x 1	297.0 x 1 + 305.0 x 1 + 372.0 x 1	305.0 x 2 + 372.0 x 1	305.0 x 1 + 355.0 x 1 + 372.0 x 1	305.0 x 1 + 355.0 x 1 + 372.0 x 1	305.0 x 1 + 364.0 x 1 + 372.0 x 1	305.0 x 1 + 372.0 x 2	355.0 x 1 + 372.0 x 2	355.0 x 1 + 372.0 x 2	364.0 x 1 + 372.0 x 2	372.0 x 3
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2"	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2	(1,295 x 1,795 x 765) x 3	(1,295 x 1,795 x 765) x 3	(1,295 x 1,795 x 765) x 3	(1,295 x 1,795 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2	(1,363 x 1,987 x 832) x 3	(1,363 x 1,987 x 832) x 3	(1,363 x 1,987 x 832) x 3	(1,363 x 1,987 x 832) x 3
Operating Temperature Range	Cooling		℃	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB .
   - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB.
2) Connection ratio is recommended to be in the range of 50% to 130%.
3) Sound pressure level is obtained in an anechoic room.
   - Sound pressure level is a relative value, depending on the distance and acoustic environment.
   - Sound pressure level may differ depending on operation condition.
   - dBA = A-weighted sound pressure level.
   - Reference acoustic pressure 0 dB = 20uPa.
4) Sound power level is an absolute value that a sound source generates.
   - dBA = A-weighted sound power level.
   - Reference power : 1pW.
   - Measured according to ISO 3741.
5) Sound values of multi combination are theoretical values based on sound results of individual installed units.
6) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under. If the level difference is higher than 50m, PDM kit (Pressure Drop Modulation kit) may be required. When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
7) MCA: Minimum Circuit Amps, MFA: Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

Top Discharged, Air Cooled

Heat Recovery (Premium System)

A giant in capacity.
Compact footprint.
All you need in one system.

Optimal comfort with Samsung Climate solutions

Designed for superior efficiency and performance

Variable refrigerant flow (VRF) systems are a smart solution for commercial and large residential buildings that demand rapid and flexible temperature control, greater efficiency and more flexible installation. Advanced heat recovery combines heating, cooling and ventilation processes for increased energy efficiency and lower operating costs.

In addition, DVM technology supports zone control, enabling users to adjust individual climate settings to suit their personal comfort preferences.

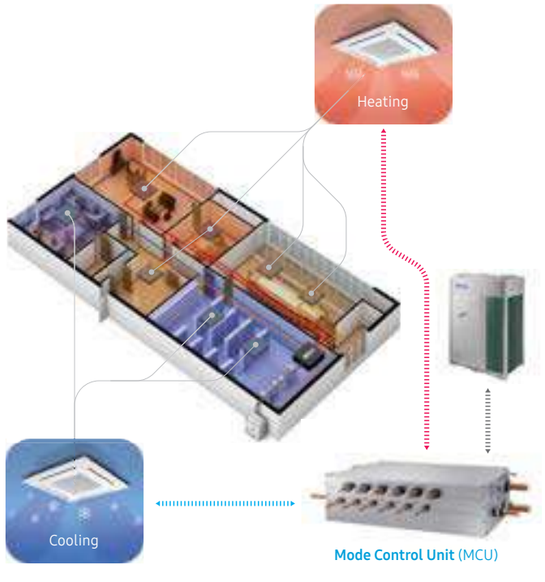
Mode Control Unit (MCU)

Provides you with the power to customise your environment

Simultaneous Cooling and Heating

Our advanced DVM S Heat Recovery System allows you to independently cool and heat different spaces at the same time. This lets you simultaneously heat some rooms or areas of a building – while cooling others.

This is made possible with the innovative Mode Control Unit (MCU) – giving you full control.



Mode Control Unit (MCU)

Mode Control Unit (MCU)

DVM S DIGITAL VARIABLE MULTI

Key Features

- Compact and lightweight unit; similar size to a slim duct indoor unit
- MCU is fully insulated on the inside, it means there is no drain piping required, reducing installation time
- Multiple indoor unit connection to a common port is possible, reducing number of MCUs required per system
- Installation flexibility; piping from outdoor unit can be piped from either end of the MCU (not applicable for 1 port MCU)
- Series connection from one MCU to another MCU is available (not applicable for 1 port MCU)
- Auto pipe pairing operation of MCU port to indoor unit, reducing installation errors and time
- All pipe connections are of brazed type

Two, Four, and Six Port MCU
(728W x 199H x 469D mm)

One Port MCU
(338W x 199H x 409D mm)

Model			Applicable for all DVM Heat Recovery Systems				Only Applicable for DVM Mini Systems	
			MCU-S1NEK1N	MCU-S2NEK2N	MCU-S4NEK3N	MCU-S6NEK2N	MCU-R4NEK0N[1]	MCU-S6NEK3N
Maximum Number of Connectable Indoor Units			8	16	32	32	12	18
Maximum Number of Connectable Indoor Units Per Port			8	8	8	8	3	3
Total Capacity of Connectable Indoor Units		kW	16.0	32.0	61.6	61.6	22.4	22.4
Maximum Capacity of Connectable Indoor Units	Per Port	kW	16.0	16.0	16.0	16.0	5.6	5.6
	Per Y-Joint	kW	-	32.0	32.0	32.0	14.0	14.0
Power	Current Input (Nominal)	A	0.2	0.2	0.2	0.3	0.2	0.2
	MCA	A	2.0	2.0	2.0	2.0	2.0	2.0
	MFA	A	15.0	15.0	15.0	15.0	15.0	15.0
Sound Pressure	Stable Cooling Operation	dBA	33	34	36	36	34	36
	Heating-to-Cooling Change Over	dBA	50	50	50	50	50	50
Dimensions (W x H x D)		mm	338 x 199 x 409	728 x 199 x 469	728 x 199 x 469	728 x 199 x 469	728 x 199 x 469	728 x 199 x 469
Unit Weight		kg	11	21	24.5	28.5	21.3	24.3

NOTE
Specification may be subject to change without prior notice.

1) HR Changer (MCU-R4NEK0N) is required to be installed when using DVM Mini Heat recovery outdoor systems.

Top Discharged, Air Cooled

Heat Recovery

Outdoor Unit Line-Up

Capa (HP)	Model Name	Model	Capa (HP)	Model Name	Model
8 10 12	AM080FXVAGR/EU AM100FXVAGR/EU AM120FXVAGR/EU		14 16 18 20 22	AM140FXVAGR/EU AM160FXVAGR/EU AM180FXVAGR/EU AM200FXVAGR/EU AM220FXVAGR/EU	
24 26 28 30	AM240MXVGNR/ET AM260MXVGNR/ET AM280MXVGNR/ET AM300MXVANR/ET		32 34	AM320FXVGNR/EU AM340FXVGNR/EU	
36 38 40 42	AM360FXVGNR/EU AM380FXVGNR/EU AM400FXVGNR/EU AM420FXVGNR/EU		44 46 48 50 52	AM440FXVGNR/EU AM460FXVGNR/EU AM480FXVGNR/EU AM500FXVGNR/EU AM520FXVGNR/EU	
54 56 58 60	AM540FXVGNR/EU AM560FXVGNR/EU AM580FXVGNR/EU AM600FXVGNR/EU		62 64	AM620FXVGNR/EU AM640FXVGNR/EU	
66 68 70 72 74	AM660FXVGNR/EU AM680FXVGNR/EU AM700FXVGNR/EU AM720FXVGNR/EU AM740FXVGNR/EU		76 78 80 82	AM760FXVGNR/EU AM780FXVGNR/EU AM800FXVGNR/EU AM820FXVGNR/EU	
84 86 88 90	AM840FXVGNR/EU AM860FXVGNR/EU AM880FXVGNR/EU AM900FXVGNR/EU				

Top Discharged, Air Cooled

Heat Recovery

Combination Table

System Model			Capacity of Single Unit (HP)										
Capa (HP)	Code	No. of Modules	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP
8HP	AM080FXVAGR/EU	1	1											
10HP	AM100FXVAGR/EU	1		1										
12HP	AM120FXVAGR/EU	1			1									
14HP	AM140FXVAGR/EU	1				1								
16HP	AM160FXVAGR/EU	1					1							
18HP	AM180FXVAGR/EU	1						1						
20HP	AM200FXVAGR/EU	1							1					
22HP	AM220FXVAGR/EU	1								1				
24HP	AM240MXVGNR/ET	1									1			
26HP	AM260MXVGNR/ET	1										1		
28HP	AM280MXVGNR/ET	1											1	
30HP	AM300MXVANR/ET	1												1
32HP	AM320FXVGNR/EU	2			1				1					
34HP	AM340FXVGNR/EU	2			1					1				
36HP	AM360FXVGNR/EU	2				1				1				
38HP	AM380FXVGNR/EU	2					1			1				
40HP	AM400FXVGNR/EU	2						1		1				
42HP	AM420FXVGNR/EU	2							1	1				
44HP	AM440FXVGNR/EU	2				1								1
46HP	AM460FXVGNR/EU	2					1							1
48HP	AM480FXVGNR/EU	2						1						1
50HP	AM500FXVGNR/EU	2							1					1
52HP	AM520FXVGNR/EU	2								1				1
54HP	AM540FXVGNR/EU	2									1			1
56HP	AM560FXVGNR/EU	2										1		1
58HP	AM580FXVGNR/EU	2											1	1
60HP	AM600FXVGNR/EU	2												2
62HP	AM620FXVGNR/EU	3		1						1				1
64HP	AM640FXVGNR/EU	3			1					1				1
66HP	AM660FXVGNR/EU	3				1				1				1
68HP	AM680FXVGNR/EU	3					1			1				1
70HP	AM700FXVGNR/EU	3						1		1				1
72HP	AM720FXVGNR/EU	3							1	1				1
74HP	AM740FXVGNR/EU	3								2				1
76HP	AM760FXVGNR/EU	3								1	1			1
78HP	AM780FXVGNR/EU	3								1		1		1
80HP	AM800FXVGNR/EU	3								1			1	1
82HP	AM820FXVGNR/EU	3								1				2
84HP	AM840FXVGNR/EU	3									1			2
86HP	AM860FXVGNR/EU	3										1		2
88HP	AM880FXVGNR/EU	3											1	2
90HP	AM900FXVGNR/EU	3												3

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

Top Discharged, Air Cooled Heat Recovery

Single Module Systems



System				DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S
Model Name				AM080FXVAGR/EU	AM100FXVAGR/EU	AM120FXVAGR/EU	AM140FXVAGR/EU	AM160FXVAGR/EU	AM180FXVAGR/EU	AM200FXVAGR/EU	AM220FXVAGR/EU	AM240MXVGNR/ET	AM260MXVGNR/ET	AM280MXVGNR/ET	AM300MXVANR/ET
Type				Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Performance	Nominal Capacity[1]		HP	8	10	12	14	16	18	20	22	24	26	28	30
		Cooling	kW	22.4	28.0	33.6	40.0	45.0	50.4	56.0	61.6	67.2	72.8	78.6	84.0
		Heating	kW	25.2	31.5	37.8	45.0	50.4	56.7	63.0	69.3	75.6	81.9	88.2	94.5
Maximum Number of Connectable Indoor Units			EA	14	18	21	26	29	32	36	40	43	47	51	54
Total Connectable Indoor Unit Capacity[2]		Minimum	kW	11.2	14.0	16.8	20.0	22.5	25.2	28.0	30.8	33.6	36.4	39.3	42.0
		Maximum	kW	29.1	36.4	43.7	52.0	58.5	65.5	72.8	80.1	87.4	94.6	102.2	109.2
Efficiency	EER (Nominal)	Cooling	W/W	4.48	4.12	4.00	4.49	4.09	3.91	3.69	3.55	4.20	4.20	4.00	3.70
	COP (Nominal)	Heating	W/W	4.94	4.70	4.34	4.74	4.38	4.76	4.53	4.15	4.90	4.80	4.70	4.59
	ESEER		W/W	7.85	7.25	7.03	7.02	6.78	6.59	6.56	6.25	7.18	7.17	6.86	6.65
Sound	Sound Pressure[3]	Cooling	dB(A)	57	58	62	61	63	64	65	66	69	69	69	69
		Heating	dB(A)	59	60	64	63	65	66	67	68	71	71	71	71
	Sound Power[4]		dB(A)	77	79	81	81	83	86	87	89	90	90	90	90
Power	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50/60	3, 4, 380-415, 50/60	3, 4, 380-415, 50/60	3, 4, 380-415, 50/60
	Power Input (Nominal)	Cooling	kW	5.0	6.8	8.4	8.9	11.0	12.9	15.2	17.4	16.0	17.3	19.7	22.7
		Heating	kW	5.1	6.7	8.7	9.5	11.5	11.9	13.9	16.7	15.4	17.1	18.8	20.6
	Minimum Circuit Amps	MCA[7]	A	18.0	21.1	25.0	25.0	32.0	39.1	42.5	44.5	55.0	60.0	67.0	73.0
	Maximum Fuse Amps	MFA[7]	A	25	32	32	32	40	50	63	63	63	75	75	80
Compressor	Model Name			DS-GB052FAV* x1	DS-GB066FAV* x1	DS-GB066FAV* x1	DS-GB066FAV* x1	DS-GB052FAV* x2	DS-GB066FAV* x2	DS-GB066FAV* x2	DS-GB066FAV* x2	DS-GB070FAV* x2	DS4GJ5080FV* x2	DS4GJ5080FV* x2	DS4GJ5080FV* x2
	Oil	Type		PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE
Fan	Type			Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Discharge Direction			Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top
	Quantity		EA	1	1	1	2	2	2	2	2	2	2	2	2
	Air Flow Rate (Nominal)		l/s	2,883	2,883	3,500	3,767	4,167	4,500	4,583	4,667	5,667	5667	5667	5667
	External Static Pressure	Maximum	Pa	78	78	78	78	78	78	78	78	78	78	78	78
Main Pipe Size	Liquid Pipe		Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)	12.70 (1/2)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Φ, mm (inch)	19.05 (3/4)	22.22 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)
	High Pressure Gas Pipe			15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
External Dimension	Net Weight		kg	189.5	189.5	189.5	239	282	304	304	304	350	358	358	358
	Shipping Weight		kg	205.5	205.5	205.5	258	301	323	323	323	372	380	380	380
	Net Dimensions (WxHxD)		mm	880 x 1,695 x 765	880 x 1,695 x 765	880 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,795 x 765	1,295 x 1,795 x 765	1,295 x 1,795 x 765	1,295 x 1,795 x 765
	Shipping Dimensions (WxHxD)		mm	948 x 1,887 x 832	948 x 1,887 x 832	948 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,887 x 832	1,363 x 1,987 x 832	1,363 x 1,987 x 832	1,363 x 1,987 x 832	1,363 x 1,987 x 832
Operating Temperature Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE
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1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB .
   - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB.
2) Connection ratio is recommended to be in the range of 50% to 130%.
3) Sound pressure level is obtained in an anechoic room.
   - Sound pressure level is a relative value, depending on the distance and acoustic environment.
   - Sound pressure level may differ depending on operation condition.
   - dBA = A-weighted sound pressure level.
   - Reference acoustic pressure 0 dB = 20uPa.
4) Sound power level is an absolute value that a sound source generates.
   - dBA = A-weighted sound power level.
   - Reference power : 1pW.
   - Measured according to ISO 3741.
5) Sound values of multi combination are theoretical values based on sound results of individual installed units.
6) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under. If the level difference is higher than 50m, PDM kit (Pressure Drop Modulation kit) may be required. When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
7) MCA: Minimum Circuit Amps, MFA: Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

Top Discharged, Air Cooled Heat Recovery

Modular Systems




System				DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S
Model Name				AM320FXVGNR/EU	AM340FXVGNR/EU	AM360FXVGNR/EU	AM380FXVGNR/EU	AM400FXVGNR/EU	AM420FXVGNR/EU	AM440FXVGNR/EU	AM460FXVGNR/EU	AM480FXVGNR/EU	AM500FXVGNR/EU	AM520FXVGNR/EU	AM540FXVGNR/EU	AM560FXVGNR/EU	AM580FXVGNR/EU	AM600FXVGNR/EU
Outdoor Unit Module 1				AM120FXVAGR/EU	AM120FXVAGR/EU	AM140FXVAGR/EU	AM160FXVAGR/EU	AM180FXVAGR/EU	AM200FXVAGR/EU	AM140FXVAGR/EU	AM160FXVAGR/EU	AM180FXVAGR/EU	AM200FXVAGR/EU	AM220FXVAGR/EU	AM240MXVGNR/ET	AM260MXVGNR/ET	AM280MXVGNR/ET	AM300MXVANR/ET
Outdoor Unit Module 2				AM200FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET
Type				Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Performance	Nominal Capacity[1]		HP	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
		Cooling	kW	89.6	95.2	101.6	106.6	112.0	117.6	124.0	129.0	134.4	140.0	145.6	151.2	156.8	162.6	168.0
		Heating	kW	100.8	107.1	114.3	119.7	126.0	132.3	139.5	144.9	151.2	157.5	163.8	170.1	176.4	182.7	189.0
Maximum Number of Connectable Indoor Units			EA	58	61	64	64	64	64	64	64	64	64	64	64	64	64	64
Total Connectable Indoor Unit Capacity[2]		Minimum	kW	44.8	47.6	50.8	53.3	56.0	58.8	62.0	64.5	67.2	70.0	72.8	75.6	78.4	81.3	84.0
		Maximum	kW	116.5	123.8	132.1	138.6	145.6	152.9	161.2	167.7	174.7	182.0	189.3	196.6	203.8	211.4	218.4
Efficiency	EER (Nominal)	Cooling	W/W	3.80	3.70	3.87	3.76	3.70	3.61	3.92	3.83	3.78	3.69	3.64	3.91	3.92	3.84	3.70
	COP (Nominal)	Heating	W/W	4.46	4.22	4.36	4.24	4.41	4.32	4.64	4.52	4.65	4.57	4.39	4.72	4.69	4.64	4.59
	ESEER		W/W	6.74	6.53	6.55	6.47	6.40	6.40	6.77	6.70	6.63	6.61	6.48	6.89	6.89	6.75	6.65
Sound[5]	Sound Pressure[3]	Cooling	dB(A)	67	67	67	68	68	69	70	70	70	70	71	72	72	72	72
		Heating	dB(A)	69	69	69	70	70	71	72	72	72	72	73	74	74	74	74
	Sound Power[4]		dB(A)	88	90	90	90	91	91	91	91	91	92	93	93	93	93	93
Power	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
	Power Input (Nominal)	Cooling	kW	23.6	25.8	26.3	28.4	30.2	32.5	31.6	33.7	35.6	37.9	40.1	38.7	40.0	42.4	45.4
		Heating	kW	22.6	25.4	26.2	28.2	28.6	30.6	30.1	32.1	32.5	34.5	37.3	36.0	37.7	39.4	41.2
	Minimum Circuit Amps	MCA[7]	A	67.5	69.5	69.5	76.5	83.6	87.0	98.0	105.0	112.1	115.5	117.5	128.0	133.0	140.0	146.0
	Maximum Fuse Amps	MFA[7]	A	80	80	80	90	100	100	125	125	125	150	150	150	150	175	175
Compressor	Model Name			(DS-GB066FAV* x 1 + (DS-GB066FAV* x 2)	(DS-GB066FAV* x 1) + (DS-GB066FAV* x 2)	(DS-GB066FAV* x 1)+ (DS-GB066FAV* x 2)	(DS-GB052FAV* x 2)+ (DS-GB066FAV* x 2)	(DS-GB066FAV* x 2) + (DS-GB066FAV* x 2)	(DS-GB066FAV* x 2) x (DS-GB066FAV* x 2	(DS-GB066FAV* x 1) + (DS4GJ5080FV* x 2)	(DS-GB052FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB070FAV* x 2) + (DS4GJ5080FV* x 2)	(DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)	(DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)	(DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)
	Oil	Type		PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE
Fan	Type			Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Discharge Direction			Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top
	Quantity		EA	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
	Air Flow Rate (Nominal)		l/s	3,500 x 1 + 4,583 x 1	3,500 x 1 + 4,667 x 1	3,767 x 1 + 4,667 x 1	4,167 x 1 + 4,667 x 1	4,500 x 1 + 4,667 x 1	4,583 x 1 + 4,667 x 1	3,767 x 1 + 5,667 x 1	4,167 x 1 + 5,667 x 1	4,500 x 1 + 5,667 x 1	4,583 x 1 + 5,667 x 1	4,667 x 1 + 5,667 x 1	5,667 x 2	5,667 x 2	5,667 x 2	5,667 x 2
	External Static Pressure	Maximum	Pa	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Main Pipe Size	Liquid Pipe		Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Φ, mm (inch)	34.92 (1-3/8)	34.92 (1-3/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	High Pressure Gas Pipe			28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)
External Dimension	Net Weight		kg	189.5 x 1 + 304.0 x 1	189.5 x 1 + 304.0 x 1	239.0 x 1 + 304.0 x 1	282.0 x 1 + 304.0 x 1	304.0 x 2	304.0 x 2	239.0 x 1 + 358.0 x 1	282.0 x 1 + 358.0 x 1	304.0 x 1 + 358.0 x 1	304.0 x 1 + 358.0 x 1	304.0 x 1 + 358.0 x 1	350.0 x 1 + 358.0 x 1	358.0 x 2	358.0 x 2	358.0 x 2
	Shipping Weight		kg	205.5 x 1 + 323.0 x 1	205.5 x 1 + 323.0 x 1	258.0 x 1 + 323.0 x 1	301.0 x 1 + 323.0 x 1	323.0 x 2	323.0 x 2	258.0 x 1 + 380.0 x 1	301.0 x 1 + 380.0 x 1	323.0 x 1 + 380.0 x 1	323.0 x 1 + 380.0 x 1	323.0 x 1 + 380.0 x 1	372.0 x 1 + 380.0 x 1	380.0 x 2	380.0 x 2	380.0 x 2
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,795 x 765) x 2	(1,295 x 1,795 x 765) x 2	(1,295 x 1,795 x 765) x 2	(1,295 x 1,795 x 765) x 2
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 2	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1"	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,987 x 832) x 2	(1,363 x 1,987 x 832) x 2	(1,363 x 1,987 x 832) x 2	(1,363 x 1,987 x 832) x 2
Operating Temperature Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB .
   - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB.
2) Connection ratio is recommended to be in the range of 50% to 130%.
3) Sound pressure level is obtained in an anechoic room.
   - Sound pressure level is a relative value, depending on the distance and acoustic environment.
   - Sound pressure level may differ depending on operation condition.
   - dBA = A-weighted sound pressure level.
   - Reference acoustic pressure 0 dB = 20uPa.
4) Sound power level is an absolute value that a sound source generates.
   - dBA = A-weighted sound power level.
   - Reference power : 1pW.
   - Measured according to ISO 3741.
5) Sound values of multi combination are theoretical values based on sound results of individual installed units.
6) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under. If the level difference is higher than 50m, PDM kit (Pressure Drop Modulation kit) may be required. When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
7) MCA: Minimum Circuit Amps, MFA: Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

Top Discharged, Air Cooled Heat Recovery

Modular Systems




System				DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S
Model Name				AM620FXVGNR/EU	AM640FXVGNR/EU	AM660FXVGNR/EU	AM680FXVGNR/EU	AM700FXVGNR/EU	AM720FXVGNR/EU	AM740FXVGNR/EU	AM760FXVGNR/EU	AM780FXVGNR/EU	AM800FXVGNR/EU	AM820FXVGNR/EU	AM840FXVGNR/EU	AM860FXVGNR/EU	AM880FXVGNR/EU	AM900FXVGNR/EU
Outdoor Unit Module 1				AM120FXVAGR/EU	AM120FXVAGR/EU	AM140FXVAGR/EU	AM160FXVAGR/EU	AM180FXVAGR/EU	AM200FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM240MXVGNR/ET	AM260MXVGNR/ET	AM280MXVGNR/ET	AM300MXVANR/ET
Outdoor Unit Module 2				AM200FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM220FXVAGR/EU	AM240MXVGNR/ET	AM260MXVGNR/ET	AM280MXVGNR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET
Outdoor Unit Module 3				AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET	AM300MXVANR/ET
Type				Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery	Heat Recovery
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Performance	Nominal Capacity[1]		HP	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
		Cooling	kW	173.6	179.2	185.6	190.6	196.0	201.6	207.2	212.8	218.4	224.2	229.6	235.2	240.8	246.6	252.0
		Heating	kW	195.3	201.6	208.8	214.2	220.5	226.8	233.1	239.4	245.7	252.0	258.3	264.6	270.9	277.2	283.5
Maximum Number of Connectable Indoor Units			EA	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Total Connectable Indoor Unit Capacity[2]		Minimum	kW	86.8	89.6	92.8	95.3	98.0	100.8	103.6	106.4	109.2	112.1	114.8	117.6	120.4	123.3	126.0
		Maximum	kW	225.7	233.0	241.3	247.8	254.8	262.1	269.4	276.6	283.9	291.5	298.5	305.8	313	320.6	327.6
Efficiency	EER (Nominal)	Cooling	W/W	3.75	3.70	3.79	3.73	3.70	3.65	3.61	3.80	3.81	3.76	3.66	3.83	3.84	3.79	3.70
	COP (Nominal)	Heating	W/W	4.52	4.38	4.46	4.39	4.48	4.43	4.32	4.54	4.52	4.50	4.46	4.67	4.65	4.62	4.59
	ESEER		W/W	6.69	6.58	6.60	6.55	6.51	6.50	6.41	6.70	6.71	6.61	6.54	6.80	6.81	6.72	6.65
Sound[5]	Sound Pressure[3]	Cooling	dB(A)	71	71	71	71	72	72	72	73	73	73	73	74	74	74	74
		Heating	dB(A)	73	73	73	73	74	74	74	75	75	75	75	76	76	76	76
	Sound Power[4]		dB(A)	92	93	93	93	93	94	94	94	94	94	94	95	95	95	95
Power	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
	Power Input (Nominal)	Cooling	kW	46.3	48.5	49.0	51.1	52.9	55.2	57.4	56.1	57.4	59.7	62.8	61.4	62.7	65.1	68.1
		Heating	kW	43.2	46.0	46.8	48.8	49.2	51.2	54.0	52.7	54.4	56.1	57.9	56.6	58.2	59.9	61.8
	Minimum Circuit Amps	MCA[7]	A	140.5	142.5	142.5	149.5	156.6	160.0	162.0	172.5	177.5	184.5	190.5	201.0	206.0	213.0	219.0
	Maximum Fuse Amps	MFA[7]	A	175	175	175	175	175	200	200	200	200	225	225	225	250	250	250
Compressor	Model Name			(DS-GB066FAV* x 1) + (DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 1) + (DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 1) + (DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB052FAV* x 2) + (DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS-GB070FAV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB066FAV* x 2) + (DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)	(DS-GB070FAV* x 2) + (DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)	(DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)	(DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)	(DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2) + (DS4GJ5080FV* x 2)
	Oil	Type		PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE
Fan	Type			Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Discharge Direction			Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top	Top
	Quantity		EA	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6
	Air Flow Rate (Nominal)		l/s	3,500 x 1 + 4,583 x 1 + 5,667 x 1	3,500 x 1 + 4,667 x 1 + 5,667 x 1	3,767 x 1 + 4,667 x 1 + 5,667 x 1	4,167 x 1 + 4,667 x 1 + 5,667 x 1	4,500 x 1 + 4,667 x 1 + 5,667 x 1	4,583 x 1 + 4,667 x 1 + 5,667 x 1	4,667 x 2 + 5,667 x 1	4,667 x 1 + 5,667 x 2	4,667 x 1 + 5,667 x 2	4,667 x 1 + 5,667 x 2	4,667 x 1 + 5,667 x 2	5,667 x 3	5,667 x 3	5,667 x 3	5,667 x 3
	External Static Pressure	Maximum	Pa	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Main Pipe Size	Liquid Pipe		Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	High Pressure Gas Pipe			41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
External Dimension	Net Weight		kg	189.5 x 1 + 304.0 x 1 + 358.0 x 1	189.5 x 1 + 304.0 x 1 + 358.0 x 1	239.0 x 1 + 304.0 x 1 + 358.0 x 1	282.0 x 1 + 304.0 x 1 + 358.0 x 1	304.0 x 2 + 358.0 x 1	304.0 x 2 + 358.0 x 1	304.0 x 2 + 358.0 x 1	304.0 x 1 + 350.0 x 1 + 358.0 x 1	304.0 x 1 + 358.0 x 2	304.0 x 1 + 358.0 x 2	304.0 x 1 + 358.0 x 2	350.0 x 1 + 358.0 x 2	358.0 x 3	358.0 x 3	358.0 x 3
	Shipping Weight		kg	205.5 x 1 + 323.0 x 1 + 380.0 x 1	205.5 x 1 + 323.0 x 1 + 380.0 x 1	258.0 x 1 + 323.0 x 1 + 380.0 x 1	301.0 x 1 + 323.0 x 1 + 380.0 x 1	323.0 x 2 + 380.0 x 1	323.0 x 2 + 380.0 x 1	323.0 x 2 + 380.0 x 1	323.0 x 1 + 372.0 x 1 + 380.0 x 1	323.0 x 1 + 380.0 x 2	323.0 x 1 + 380.0 x 2	323.0 x 1 + 380.0 x 2	372.0 x 1 + 380.0 x 2	380.0 x 3	380.0 x 3	380.0 x 3
	Net Dimensions (WxHxD)		mm	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(880 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 2 + (1,295 x 1,795 x 765) x 1	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2	(1,295 x 1,695 x 765) x 1 + (1,295 x 1,795 x 765) x 2	(1,295 x 1,795 x 765) x 3	(1,295 x 1,795 x 765) x 3	(1,295 x 1,795 x 765) x 3	(1,295 x 1,795 x 765) x 3
	Shipping Dimensions (WxHxD)		mm	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(948 x 1,887 x 832) x 1 + (1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 2 + (1,363 x 1,987 x 832) x 1	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2	(1,363 x 1,887 x 832) x 1 + (1,363 x 1,987 x 832) x 2	(1,363 x 1,987 x 832) x 3	(1,363 x 1,987 x 832) x 3	(1,363 x 1,987 x 832) x 3	(1,363 x 1,987 x 832) x 3
Operating Temperature Range	Cooling		℃	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		℃	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB .
   - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB.
2) Connection ratio is recommended to be in the range of 50% to 130%.
3) Sound pressure level is obtained in an anechoic room.
   - Sound pressure level is a relative value, depending on the distance and acoustic environment.
   - Sound pressure level may differ depending on operation condition.
   - dBA = A-weighted sound pressure level.
   - Reference acoustic pressure 0 dB = 20uPa.
4) Sound power level is an absolute value that a sound source generates.
   - dBA = A-weighted sound power level.
   - Reference power : 1pW.
   - Measured according to ISO 3741.
5) Sound values of multi combination are theoretical values based on sound results of individual installed units.
6) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under. If the level difference is higher than 50m, PDM kit (Pressure Drop Modulation kit) may be required. When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
7) MCA: Minimum Circuit Amps, MFA: Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

DVM S Water

Using a closed-loop water system for heat transfer, this innovative unit is energy efficiency for today's environmentally and budget conscious businesses.

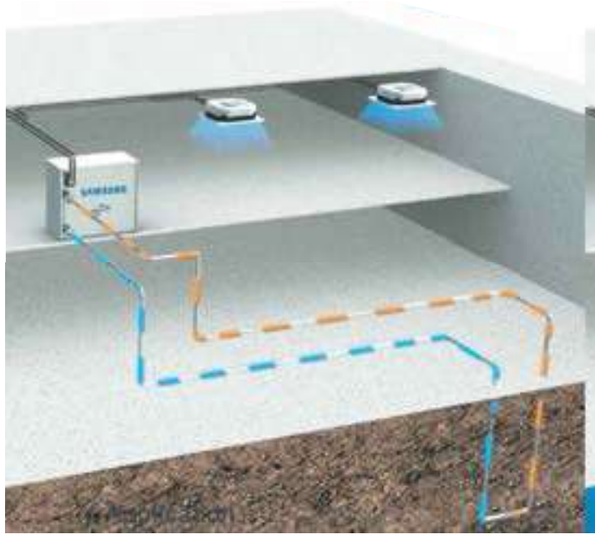
DVM S Water is a high-capacity outdoor cooling and heating system, ideal for large buildings. Unique to other DVM S models, the DVM S WATER air conditioning system uses water as its heat source, which can connect to a cooling tower and boiler. Using a highly efficient compressor and heat exchanger, DVM S Water provides effective and reliable performance despite changes in the surrounding environment. Its long piping and lightweight design are designed to also make it easy and economical to install almost anywhere.

As fluid as water

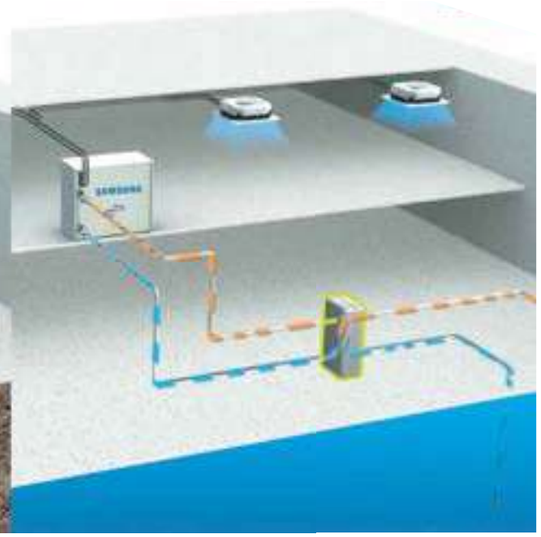
This advanced system was developed for both commercial and residential applications It's a great option for retrofit or new construction projects that are using closed-loop water systems or geothermal sources for their heating and cooling needs.

Geothermal Closed Loop or Open Loop*

Cooling & Heating



Cooling & Heating

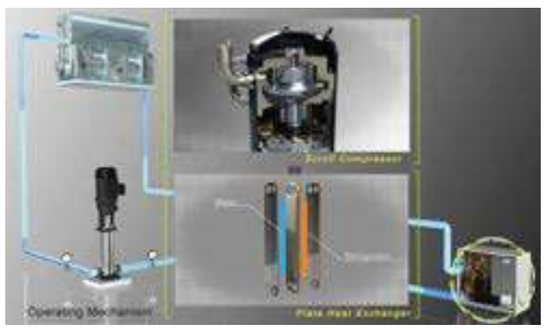


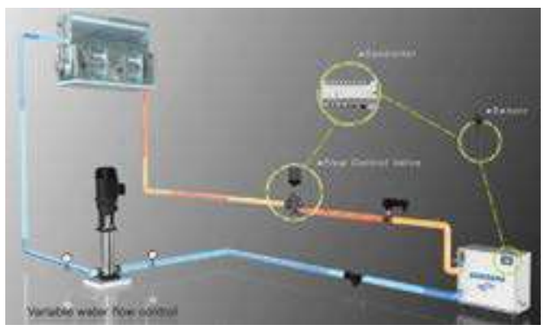
Cooling Tower/Boiler closed-loop applications

Use DVM S Water systems with a boiler for heating operation.

Use DVM S Water systems in conjunction with a cooling tower to reject heat in cooling cycles.

* Open-loop systems should only be used where allowed by local codes or law.

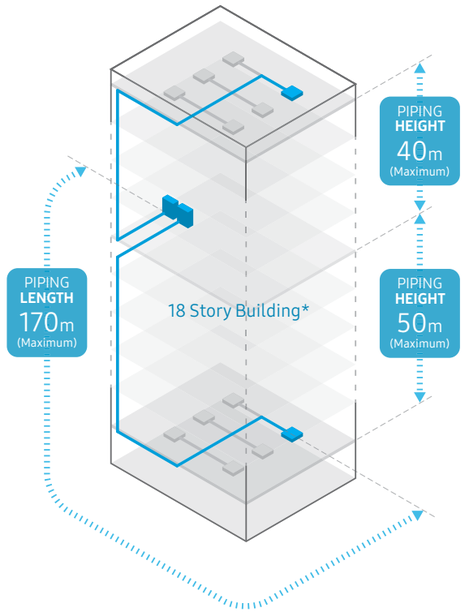




- Vapour-injected, inverter-driven compressors with soft-start operation reduces current draw and saves energy
- Heat pump or heat recovery setting can be configured during installation in 3Ø condensers
- Inverter PCB's are cooled with liquid refrigerant to maintain safe and optimal temperatures
- Energy-efficient solution for buildings using closed-loop water systems or geothermal sources
- Compact design saves space and can fit into small mechanical rooms
- Control options include simple wall-mounted controllers to central control options that allow for complete building control and monitoring
- Three phase models (available in both heat pump and heat recovery) come in at 8, 10, 12, 20, 30HP module capacities

Flexible installation almost anywhere

Long Piping Length and High Elevation



* Max height and length may vary by combination of indoor and outdoor units

Flexes its muscle

Large Capacity with Smaller Footprint

The small footprint makes it a flexible solution that can adapt to many commercial and residential applications.
Its compact design allows for easy installation and makes it a perfect solution for buildings where space is limited.

DVM S Water offers long pipe lengths and a wide variety of indoor unit options.

DVM S Water Heat Recovery, Heat Pump

8, 10, 12HP

20, 30HP

Nominal Capacity (HP)	Nominal Capacity (kW)	System Model	No. of Modules	Capacity (HP)				
				8	10	12	20	30
8	22.4	AM080FXWANR	1	1				
10	28.0	AM100FXWANR	1		1			
12	33.6	AM120FXWANR	1			1		
16	44.8	AM160FXWANR2	2	2				
18	50.4	AM180FXWANR2	2	1	1			
20	56.0	AM200FXWANR	1				1	
22	61.6	AM220FXWANR2	2		1	1		
24	67.2	AM240FXWANR2	2			2		
26	72.8	AM260FXWANR2	3	2	1			
28	78.4	AM280FXWANR2	2	1			1	
30	84.0	AM300KXWANR	1					1
32	89.6	AM320FXWANR2	2			1	1	
34	107.1	AM340FXWANR2	3		1	2		
36	113.4	AM360FXWANR2	3	2			1	
38	119.7	AM380KXWANR1	2	1				1
40	112.0	AM400KXWANR1	2				2	
42	117.6	AM420KXWANR1	2			1		1
44	123.2	AM440FXWANR2	3			2	1	
46	128.8	AM460KXWANR1	3	2				1
48	134.4	AM480KXWANR1	3	1	1			1
50	140.0	AM500KXWANR1	2				1	1
52	145.6	AM520KXWANR1	3		1	1		1
54	151.2	AM540KXWANR1	3			2		1
58	162.4	AM580KXWANR1	3	1			1	1
60	168.0	AM600KXWANR1	2					2
62	173.6	AM620KXWANR1	3			1	1	1
68	190.4	AM680KXWANR1	3	1				2
70	196.0	AM700KXWANR1	3		1			2
80	224.0	AM800KXWANR1	3				1	2
90	252.0	AM900KXWANR1	3					3

NOTE
1) Specification may be subject to change without prior notice.
2) Nominal cooling capacities shown are based on : Indoor temperature : 27°C DB, 19°C WB, Inlet water temperature : 30°C, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
3) Installation combination must complied with outdoor unit combination table.

Module Combinations

8, 10, 12HP

20, 30HP

System				DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S
Model Name				AM080FXWANR/EU	AM100FXWANR/EU	AM120FXWANR/EU	AM160FXWANR2	AM180FXWANR2	AM200FXWANR/EU	AM220FXWANR2	AM240FXWANR2	AM260FXWANR2	AM280FXWANR2	AM300KXWANR/EU	AM320FXWANR2	AM340FXWANR2	AM360FXWANR2	AM380KXWANR1
Outdoor Unit Module 1				-	-	-	AM080FXWANR/EU	AM080FXWANR/EU	AM200FXWANR/EU	AM100FXWANR/EU	AM120FXWANR/EU	AM080FXWANR/EU	AM080FXWANR/EU	AM300KXWANR/EU	AM120FXWANR/EU	AM100FXWANR/EU	AM080FXWANR/EU	AM300KXWANR/EU
Outdoor Unit Module 2				-	-	-	AM080FXWANR/EU	AM100FXWANR/EU	-	AM120FXWANR/EU	AM120FXWANR/EU	AM080FXWANR/EU	AM200FXWANR/EU	-	AM200FXWANR/EU	AM120FXWANR/EU	AM080FXWANR/EU	AM080FXWANR/EU
Outdoor Unit Module 3				-	-	-	-	-	-	-	-	AM100FXWANR/EU	-	-	-	AM120FXWANR/EU	AM200FXWANR/EU	-
Type				Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Performance	Nominal Capacity[1]		HP	8	10	12	16	18	20	22	24	26	28	30	32	34	36	38
		Cooling	kW	22.4	28.0	33.6	44.8	50.4	56.0	61.6	67.2	72.8	78.4	84.0	89.6	95.2	100.8	106.4
		Heating	kW	25.2	31.5	37.8	50.4	56.7	63.0	69.3	75.6	81.9	88.2	94.5	100.8	107.1	113.4	119.7
Maximum Number of Connectable Indoor Units			EA	14	18	22	29	32	36	40	44	47	51	55	58	62	64	64
Total Connectable Indoor Unit Capacity[2]		Minimum	kW	11.2	14.0	16.8	22.4	25.2	28.0	30.8	33.6	36.4	39.2	42.0	44.8	47.6	50.4	53.2
		Maximum	kW	29.1	36.4	43.7	58.2	65.5	72.8	80.1	87.4	94.6	101.9	109.2	116.5	123.8	131.0	138.3
Efficiency	EER (Nominal)	Cooling[1]	W/W	5.83	5.54	5.20	5.83	5.67	5.20	5.35	5.20	5.72	5.37	5.00	5.20	5.30	5.46	5.16
	COP (Nominal)	Heating	W/W	6.12	6.00	5.81	6.12	6.05	5.80	5.89	5.81	6.07	5.89	5.60	5.80	5.86	5.94	5.70
Sound[3]	Sound Pressure	Cooling[1]	dB(A)	48	48	50	51	51	51	52	53	53	53	55	54	54	54	56
		Heating	dB(A)	51	51	52	54	54	52	55	55	56	55	58	55	56	56	59
	Sound Power		dB(A)	70	70	70	73	73	73	73	73	75	75	75	75	75	76	77
Power	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
	Power Input (Nominal)	Cooling	kW	3.84	5.05	6.46	7.68	8.89	10.77	11.51	12.02	12.73	14.61	16.80	17.23	17.97	18.45	20.64
		Heating	kW	4.12	5.25	6.51	8.24	9.37	10.86	11.76	13.02	13.49	14.98	16.88	17.37	18.27	19.10	21.00
	Minimum Circuit Amps	MCA[4]	A	16.1	16.1	20.0	31.8	32.2	32.2	36.1	40.0	48.3	47.9	48.0	51.8	56.1	64.0	64.1
	Maximum Fuse Amps	MFA[4]	A	20.0	20.0	25.0	40.0	40.0	40.0	40.0	50.0	63.0	63.0	63.0	63.0	63.0	75.0	75.0
Compressor	Model Name			DS-GB05 2FAVBSG x 1	DS-GB052FAVBSG x 1	DS-GB066FAVBSG x 1	DS-GB052FAVBSG x 2	DS-GB052FAVBSG x 2	DS-GB052FAVBSG x 2	DS-GB052FAVBSG x 1 + DS-GB066FAVBSG x 1	DS-GB066FAVBSG x 2	DS-GB052FAVBSG x 3	DS-GB052FAVBSG x 3	DS-GB070FAV* x 2	DS-GB066FAVBSG x 1 + DS-GB052FAVBSG x 2	DS-GB052FAVBSG x 1 + DS-GB066FAVBSG x 2	DS-GB052FAVBSG x 4	DS-GB070FAV* x 2 + DS-GB052FAVBSG x 1
	Oil	Type		PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE
Condenser	Type			PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE
	Pipe Size		Φ, inch	1-1/4	1-1/4	1-1/4	(1-1/4) x 2	(1-1/4) x 2	1-1/4	(1-1/4) x 2	(1-1/4) x 2	(1-1/4) x 3	(1-1/4) x 2	2	1-1/4 x 2	(1-1/4) x 3	(1-1/4) x 3	2 + 1-1/4
	Pressure Drop		KPa	22	30	43	22 x 2	22 .0 + 30.0	54	30.0 + 43.0	43.0 x 2	22.0 x 2 + 30.0	22.0 + 54.0	50	43.0 + 54.0	30.0 + 43.0 x 2	22.0 x 2 + 54.0	50 + 22
	Water Flow Rate		LPM	80	96	114	80 x 2	80.0 + 96.0	190	96.0 + 114.0	114.0 x 2	80.0 x 2 + 96.0	80.0 + 190.0	285	114.0 + 190.0	96.0 + 114.0 x 2	80.0 x 2 + 190.0	285 + 80
	Maximum Pressure		MPa	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96
Piping Connections	Liquid Pipe		Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Φ, mm (inch)	19.05 (3/4)	22.22 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	41.3 (1-5/8)
	High Pressure Gas Pipe		Φ, mm (inch)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	22.22 (7/8)	22.22 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)
External Dimension	Net Weight		kg	160	160	160	160 x 2	160 x 2	240.0	160 x 2	160 x 2	160 x 3	160 + 240	280.0	160 + 240	160 x 3	160 x 2 + 240	160 + 280
	Shipping Weight		kg	167	167	167	167 x 2	167 x 2	250.0	167 x 2	167 x 2	167 x 3	167 + 250	290.0	167 + 250	167 x 3	167 x 2 + 250	167 + 290
	Net Dimensions (WxHxD)		mm	770 x 1,000 x 545	770 x 1,000 x 545	770 x 1,000 x 545	(770 x 1,000 x 545) x 2	(770 x 1,000 x 545) x 2	1,100 x 1,000 x 545	(770 x 1,000 x 545) x 2	(770 x 1,000 x 545) x 2	(770 x 1,000 x 545) x 3	770 x 1,000 x 545 + 1,100 x 1,000 x 545	1100 x 1000 x 545	770 x 1,000 x 545 + 1,100 x 1,000 x 545	(770 x 1,000 x 545) x 3	(770 x 1,000 x 545) x 2 + 1,100 x 1,000 x 545	(770 x 1000 x 545)+ (1100 x 1000 x 545)
	Shipping Dimensions (WxHxD)		mm	840 x 1,200 x 620	840 x 1,200 x 620	840 x 1,200 x 620	(840 x 1,200 x 620) x 2	(840 x 1,200 x 620) x 2	1,170 x 1,200 x 620	(840 x 1,200 x 620) x 2	(840 x 1,200 x 620) x 2	(840 x 1,200 x 620) x 3	840 x 1,200 x 620 + 1,170 x 1,200 x 620	1170 x 1200 x 620	840 x 1,200 x 620 + 1,170 x 1,200 x 620	(840 x 1,200 x 620) x 3	(840 x 1,200 x 620) x 2 + 1,170 x 1,200 x 620	(840 x 1200 x 620)+ (1170 x 1200 x 620)
Operating Temperature Range	Cooling		℃	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45
	Heating		℃	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

1) Nominal cooling capacities are based on indoor temperature : 27°C DB, 19°C WB, Inlet water temperature : 30°C, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
   Nominal heating capacities are based on indoor temperature : 20°C DB, 15°C WB, Inlet water temperature : 20°C, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
2) Connection ratio is recommended to be in the range of 50% to 130%.
3) Sound power level is an absolute value that a sound source generates.
   - Sound pressure level is a relative value, depending on the distance and acoustic environment.
   - Sound values are obtained in an anechoic room.
   - Sound values of multi combination are theoretical values based on sound results of individual installed units.
4) MCA: Minimum Circuit Amps, MFA: Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

Module Combinations

8, 10, 12HP

20, 30HP

System				DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S	DVM S
Model Name				AM400KXWANR1	AM420KXWANR1	AM440FXWANR2	AM460KXWANR1	AM480KXWANR1	AM500KXWANR1	AM520KXWANR1	AM540KXWANR1	AM580KXWANR1	AM600KXWANR1	AM620KXWANR1	AM680KXWANR1	AM700KXWANR1	AM800KXWANR1	AM900KXWANR1
Outdoor Unit Module 1				AM300KXWANR/EU	AM300KXWANR/EU	AM120FXWANR/EU	AM300KXWANR/EU	AM300KXWANR/ EU	AM300KXWANR/ EU	AM300KXWANR/EU	AM300KXWANR/EU	AM300KXWANR/EU	AM300KXWANR/EU	AM300KXWANR/EU	AM300KXWANR/EU	AM300KXWANR/EU	AM300KXWANR/EU	AM300KXWANR/EU
Outdoor Unit Module 2				AM100FXWANR/EU	AM120FXWANR/EU	AM120FXWANR/EU	AM080FXWANR/EU	AM100FXWANR/EU	AM200FXWANR/EU	AM120FXWANR/EU	AM120FXWANR/EU	AM200FXWANR/EU	AM300KXWANR/EU	AM200FXWANR/EU	AM300KXWANR/EU	AM300KXWANR/EU	AM300KXWANR/EU	AM300KXWANR/EU
Outdoor Unit Module 3				-	-	AM200FXWANR/EU	AM080FXWANR/EU	AM080FXWANR/EU	-	AM100FXWANR/EU	AM120FXWANR/EU	AM080FXWANR/EU	-	AM120FXWANR/EU	AM080FXWANR/EU	AM100FXWANR/EU	AM200FXWANR/EU	AM300KXWANR/EU
Type				Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump	Heat Recovery / Heat Pump
Refrigerant				R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Performance	Nominal Capacity[1]		HP	40	42	44	46	48	50	52	54	58	60	62	68	70	80	90
		Cooling	kW	112.0	117.6	123.2	128.8	134.4	140.0	145.6	151.2	162.4	168.0	173.6	190.4	196.0	224.0	252.0
		Heating	kW	126.0	132.3	138.6	144.9	151.2	157.5	163.8	170.1	182.7	189.0	195.3	214.2	220.5	252.0	283.5
Maximum Number of Connectable Indoor Units			EA	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Total Connectable Indoor Unit Capacity[2]		Minimum	kW	56.0	58.8	61.6	64.4	67.2	70.0	72.8	75.6	81.2	84.0	86.8	95.2	98.0	112.0	126.0
		Maximum	kW	145.6	152.9	160.2	188.4	174.7	182.0	189.3	221.1	237.5	218.4	225.7	247.5	254.8	291.2	327.6
Efficiency	EER (Nominal)	Cooling[1]	W/W	5.13	5.06	5.20	5.26	5.23	5.08	5.14	5.09	5.17	5.00	5.10	5.09	5.07	5.05	5.00
	COP (Nominal)	Heating	W/W	5.69	5.66	5.80	5.77	5.76	5.68	5.72	5.69	5.73	5.60	5.70	5.65	5.65	5.65	5.60
Sound[3]	Sound Pressure	Cooling[1]	dB(A)	56	57	55	57	57	57	57	58	58	59	58	59	59	59	60
		Heating	dB(A)	59	59	57	60	60	59	60	60	60	62	60	62	62	62	63
	Sound Power		dB(A)	77	77	76	78	78	78	78	78	78	79	78	79	79	80	80
Power	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50	3, 4, 380-415, 50
	Power Input (Nominal)	Cooling	kW	21.85	23.26	23.69	24.48	25.69	27.57	28.31	29.72	31.41	33.60	34.03	37.44	38.65	44.37	50.40
		Heating	kW	22.13	23.39	23.88	25.12	26.25	27.74	28.64	29.90	31.86	33.76	34.25	37.88	39.01	44.62	50.64
	Minimum Circuit Amps	MCA[4]	A	64.1	68.0	71.8	80.2	80.2	79.8	84.1	88.0	95.9	96.0	99.8	112.1	112.1	127.8	144.0
	Maximum Fuse Amps	MFA[4]	A	75.0	75.0	80.0	90.0	90.0	90.0	100.0	100.0	125.0	125.0	125.0	125.0	125.0	150.0	175.0
Compressor	Model Name			DS-GB070FAV* x 2 + DS-GB052FAVBSG x1	DS-GB070FAV* x 2 + DS-GB066FAVBSG x1	DS-GB052FAVBSG x 2 + DS-GB066FAVBSG x 2	DS-GB070FAV* x 2 + DS-GB052FAVBSG x 2	DS-GB070FAV* x 2 + DS-GB052FAVBSG x 2	DS-GB070FAV* x 2 + DS-GB052FAVBSG x 2	DS-GB070FAV* x 2 + DS-GB066FAVBSG x1 + DS-GB052FAVBSG x1	DS-GB070FAV* x 2 + DS-GB066FAVBSG x 2	DS-GB070FAV* x 2 + DS-GB052FAVBSG x 3	(DS-GB070FAV* x 2) x 2	DS-GB070FAV* x 2 + DS-GB052FAVBSG x 3 + DS-GB066FAVBSG x 1	DS-GB070FAV* x 4 + DS-GB052FAVBSG x 1	DS-GB070FAV* x 4 + DS-GB052FAVBSG x1"	DS-GB070FAV* x 4 + DS-GB052FAVBSG x 2	(DS-GB070FAV* x 2) x 3
	Oil	Type		PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE
Condenser	Type			PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE
	Pipe Size		Φ, inch	2 + 1-1/4	2 + 1-1/4	(1-1/4) x 3	2 + (1-1/4)x2	2 + 1-1/4	2 + 1-1/4	2 + (1-1/4) x 2	2 + (1-1/4) x 2	2 + (1-1/4) x 2	(2) x 2	2 + (1-1/4) x 2	(2) x 2 + (1-1/4)	(2) x 2 + (1-1/4)	(2) x 2 + (1-1/4)	(2) x 3
	Pressure Drop		KPa	50 + 30	50 + 43	43.0 x 2 + 54.0	50 + 22 x 2	50 + 22 + 30	50 + 54	50 + 43 + 30	50 + 43x2	50 + 54 + 22	50 x 2	50 + 54 + 43	50x2 + 22	50x2 + 30	50x2 + 54	50 x 3
	Water Flow Rate		LPM	285 + 96	285 + 114	114.0 x 2 + 190.0	285 + 80 x 2	285 + 80 + 96	285 + 190	285 + 114 + 96	285 + 114x2	285 + 190 + 80	285 x 2	285 + 190 + 114	285x2 + 80	285x2 + 96	285x2 + 190	285 x 3
	Maximum Pressure		MPa	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96
Piping Connections	Liquid Pipe		Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Φ, mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	High Pressure Gas Pipe		Φ, mm (inch)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
External Dimension	Net Weight		kg	160 + 280	160 + 280	160 x 2 + 240	160 x 2 + 280	160 x 2 + 280	240 + 280	160 x 2 + 280	160 x 2 + 280	160 + 240 + 280	280 x 2	160 + 240 + 280	160 + 280 x 2	160 + 280 x 2	240 + 280 x 2	280 x 3
	Shipping Weight		kg	167 + 290	167 + 290	167 x 2 + 250	167 x 2 + 290	167 x 2 + 290	250 + 290	167 x 2 + 290	167 x 2 + 290	167 + 250 + 290	290 x 2	167 + 250 + 290	167 + 290 x 2	167 + 290 x 2	250 + 290 x 2	290 x 3
	Net Dimensions (WxHxD)		mm	(770 x 1,000 x 545) + (1,100 x 1,000 x 545)	(770 x 1,000 x 545) + (1,100 x 1,000 x 545)	(770 x 1,000 x 545) x 2 + (1,100 x 1,000 x 545)	(770 x 1,000 x 545) x 2 + (1,100 x 1,000 x 545)	(770 x 1,000 x 545) x 2 + (1,100 x 1,000 x 545)	(1,100 x 1,000 x 545) x 2	(770 x 1,000 x 545) x 2 + (1,100 x 1,000 x 545)	(770 x 1,000 x 545) x 2 + (1,100 x 1,000 x 545)	(770 x 1,000 x 545) + (1,100 x 1,000 x 545) x 2	(1,100 x 1,000 x 545) x 2	(770 x 1,000 x 545) + (1,100 x 1,000 x 545) x 2	(770 x 1,000 x 545) + (1,100 x 1,000 x 545) x 2	(770 x 1,000 x 545) + (1,100 x 1,000 x 545) x 2	(1,100 x 1,000 x 545) x 3	(1,100 x 1,000 x 545) x 3
	Shipping Dimensions (WxHxD)		mm	(840 x 1,200 x 620) + (1,170 x 1,200 x 620)	(840 x 1,200 x 620) + (1,170 x 1,200 x 620)	(840 x 1,200 x 620) x 2 + (1,170 x 1,200 x 620)	(840 x 1,200 x 620) x 2 + (1,170 x 1,200 x 620)	(840 x 1,200 x 620) x 2 + (1,170 x 1,200 x 620)	(1,100 x 1,000 x 545) x 2	(840 x 1,200 x 620) x 2 + (1,170 x 1,200 x 620)	(840 x 1,200 x 620) x 2 + (1,170 x 1,200 x 620)	(840 x 1,200 x 620) + (1,170 x 1,200 x 620) x 2	(1,170 x 1,200 x 620) x 2	(840 x 1,200 x 620) + (1,170 x 1,200 x 620) x 2	(840 x 1,200 x 620) + (1,170 x 1,200 x 620) x 2	(840 x 1,200 x 620) + (1,170 x 1,200 x 620) x 2	(1,170 x 1,200 x 620) x 3	(1,170 x 1,200 x 620) x 3
Operating Temperature Range	Cooling		℃	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45
	Heating		℃	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45

NOTE
Specification may be subject to change without prior notice. Product image may vary depending on model.

1) Nominal cooling capacities are based on indoor temperature : 27°C DB, 19°C WB, Inlet water temperature : 30°C, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
   Nominal heating capacities are based on indoor temperature : 20°C DB, 15°C WB, Inlet water temperature : 20°C, Equivalent refrigerant piping : 7.5m, Level differences : 0m.
2) Connection ratio is recommended to be in the range of 50% to 130%.
3) Sound power level is an absolute value that a sound source generates.
   - Sound pressure level is a relative value, depending on the distance and acoustic environment.
   - Sound values are obtained in an anechoic room.
   - Sound values of multi combination are theoretical values based on sound results of individual installed units.
4) MCA: Minimum Circuit Amps, MFA: Maximum Fuse Amps. Select wiring and breaker size with consideration of local regulations.

SAMSUNG

DVM CHILLER™
DIGITAL VARIABLE MULTI

DVM Chiller

By combining the benefits of chiller and VRF technology, the DVM Chiller provides performance, efficiency and incredible space savings.

Flexibility

—

Modularity

Compatibility and Small Footprint

Efficiency

—

High Energy Efficiency

Energy Saving Operation

Performance

—

Flash Injection Technology

All-year Comfort

—

Wide Temperature Spectrum

Night Silent Mode

Convenience

—

Various Applications for Integrated Operation

Modular Design with a Compact Size

DVM Chiller

The ultimate combination of VRF and Chiller technologies.

Variable Refrigerant Flow (VRF) systems consist of outdoor units connected to multiple indoor units via refrigerant piping to provide cooling and heating to individual zones. The outdoor units can modulate capacity based on the requirements of the individual zones, thus saving energy by not always running at 100% capacity and improving occupant comfort by maintaining temperature as needed in each individual zone.

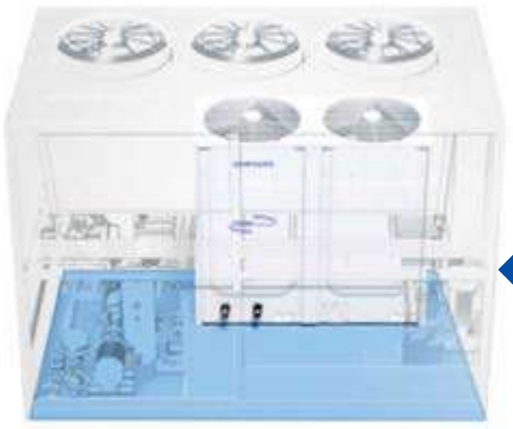
The DVM Chiller works in a similar way, except it's connected to multiple third-party Fan Coil Units (indoor units) via water piping to provide cooling and heating to individual zones. Like VRF outdoor units, the DVM Chiller can modulate its capacity depending on the requirements of the various zones, which saves energy and improves occupant comfort

Modular Design and Compact Size

The DVM Chiller's modular design provides a wide choice of configurations. It can simply and flexibly combine modules and expand capacity on demand from 42kW up to a maximum of 1040kW.

Easy to combine and fit multiple units even when space is limited. It's compact size reduces the time, cost and effort to transport, move and install a system.

VS



* Comparison with conventional water-cooled chiller system (Cooling tower + Chiller + Boiler) and SAMSUNG DVM Chiller based on AG056 model.

Advanced performance & energy efficiency

The DVM Chiller's advanced technology delivers a consistently high performance and reduces wasted energy. Its high efficient BLDC inverter compressor with Flash Injection technology is durable and performs reliably even in cold conditions. Its Digital Inverter technology provides an enhanced partial load efficiency, designed to adjust its performance to meet the air conditioning load requirements.

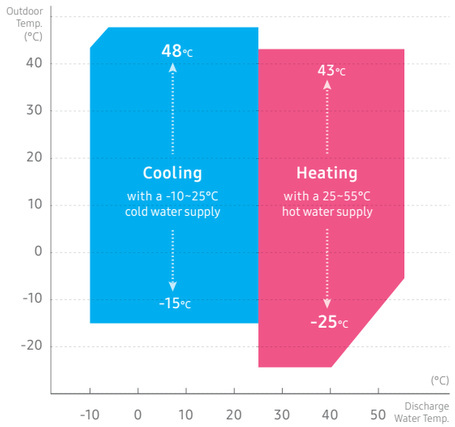
Evaporative Condenser

BLDC Inverter Compressor

All-year Comfort

Wide Operating Temperature Spectrum

No matter how extreme the temperature condition are, DVM Chiller are designed to handle extreme conditions, operating across a wide temperature spectrum*; it can cool in extreme heat of up to 48°C, or provide warmth in freezing outside conditions down to -25°C.



* Cooling with -10 to 25°C cold water supply is available when outdoor temperature is -15 to 48°C. Heating with a 25 to 55°C hot water supply is available when outdoor temperature is -25 to 43°C. For usage below 5°C, anti-freeze solution is required.

Easily move, handle and install

DVM Chiller modular design and compact size reduces time, cost and labour in transportation and installation. It can easily be transported using a 1 ton truck, and be transferred to a plant room via a freight elevator.

1 ton Truck

1 ton Forklift

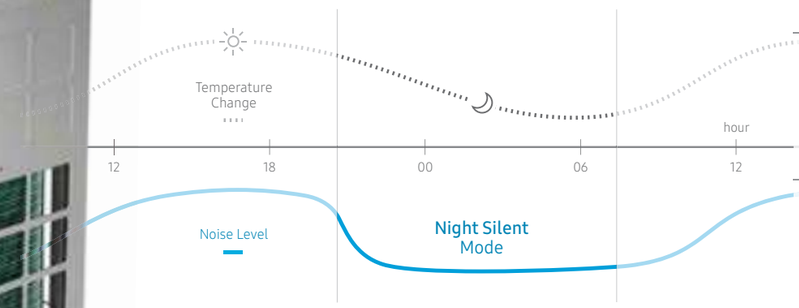
Elevator

Works quietly at night

Night Silent Mode

DVM Chiller has Night Silent Mode functionality that enables it to operate at a night silent mode setting to reduce operating noise in the evening.

The Inverter control system adjusts the speed of the compressors and fans to reduce the operating noise, whilst still maintain a level of cooling or heating performance output. This function can be schedule to run to meet the site requirements.



Modular Combination Table

Modular Systems		Capacity of Individual Module (kW)			Recommended Pipe Size [A]	Modular Systems		Capacity of Individual Module (kW)			Recommended Pipe Size [A]
Capacity (kW)	Number of Modules	42	56	65		Capacity (kW)	Number of Modules	42	56	65	
		AG042	AG056	AG070				AG042	AG056	AG070	
42	1	1			40	455	7			7	125
56	1		1		40	462	11	11			125
65	1			1	50	504	9		9		125
84	2	2			50	504 (HE)	12	12			125
112	2		2		65	520	8			8	125
126	3	3			65	546	13	13			125
130	2			2	80	560	10		10		125
168	3		3		80	585	9			9	125
168 (HE)	4	4			80	588		14			125
195	3			3	80	616	11		11		125
210	5	5			80	630	15	15			125
224	4		4		100	650	10			10	125
252	6	6			100	672	12		12		125
260	4			4	100	672 (HE)	16	16			125
280	5		5		100	715	11			11	125
294	7	7			100	728	13		13		125
325	5			5	100	780	12			12	150
336	6		6		100	784	14		14		150
336 (HE)	8	8			100	840	15		15		150
378	9	9			100	845	13			13	150
390	6			6	100	896	16		16		150
392	7		7		100	910	14			14	150
420	10	10			100	975	15			15	150
448	8		8		125	1040	16			16	150

NOTE
1) The total capacity of modular systems is the sum of each individual unit capacity.
2) The total power input of modular systems is the sum of each individual unit power input.
3) It is not recommended to combine modules not listed in the combination table, as it may cause water flow distribution issues.
4) HE: Higher efficiency combination.

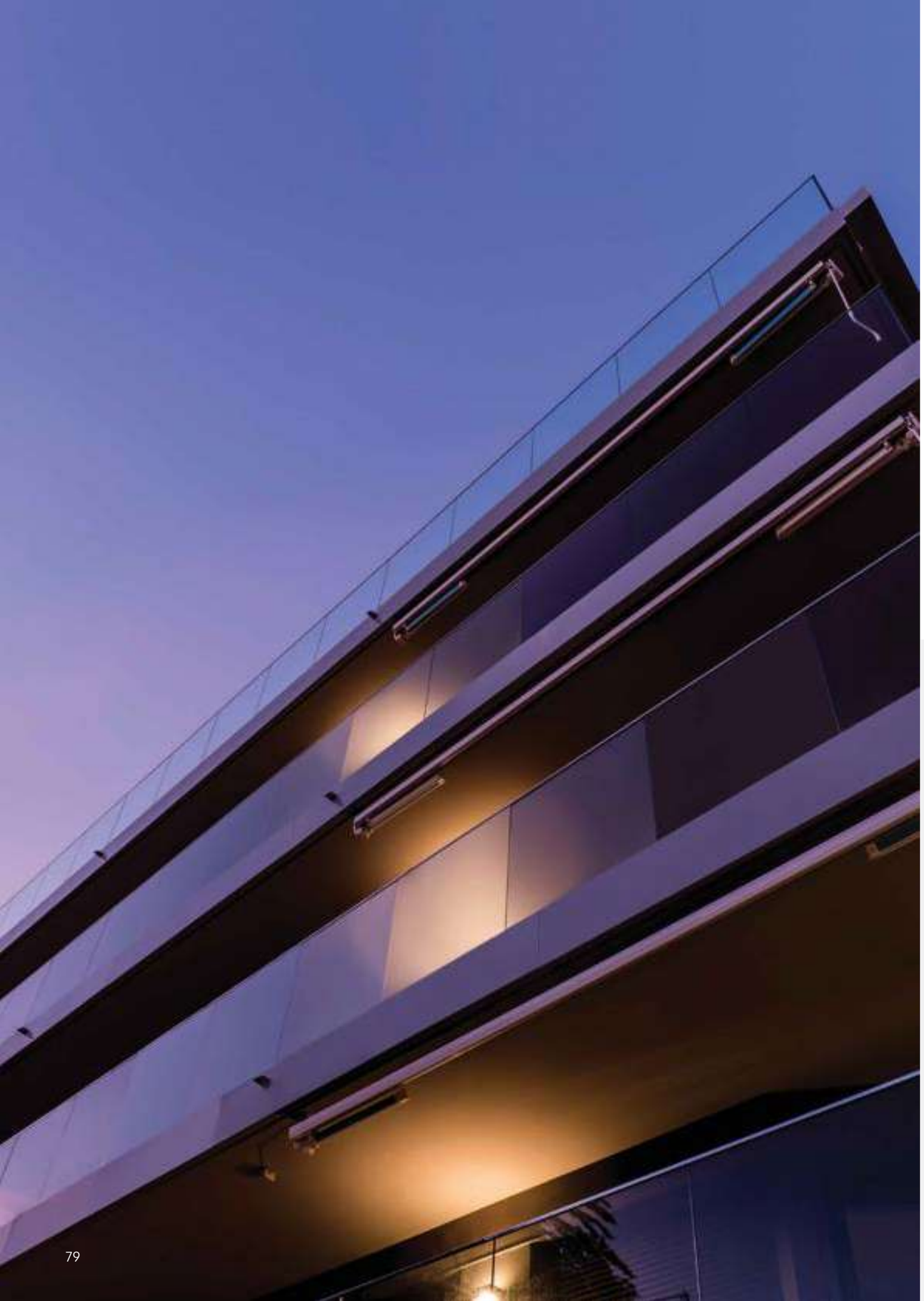
DVM Chiller, Air Cooled Heat Pump

(Water pump is not included, and to be field supply)

Model Name				AG042KSVANH/EU	AG056KSVANH/EU	AG070KSVANH/EU
Mode				Heat Pump	Heat Pump	Heat Pump
Refrigerant				R410A	R410A	R410A
Performance	HP		HP	15	20	25
	Ton		usRT	12	16	18.5
	Capacity	Cooling[2]	kW	42.0	56.0	65.0
		Heating[3]	kW	42.0	56.0	69.5
EER	Cooling (Pump input is not included)		W/W	3.4	3.0	2.5
	Cooling (Pump input is included based on EN14511)[5]		W/W	3.2	2.8	2.3
COP	Heating (Pump input is not included)		W/W	3.6	3.2	2.9
	Heating (Pump input is included based on EN14511)[5]		W/W	3.4	3.1	2.7
ESEER	ESEER (Pump input is not included)		W/W	5.7	5.4	5.0
	ESEER (Pump input is included based on EN14511)[5]		W/W	4.8	4.5	4.1
Sound[4]	Sound Pressure		dB(A)	60	62	63
	Sound Power		dB(A)	80	83	85
Power	Power Supply		Φ, #, V, Hz	3, 4, 380-415, 50/60	3, 4, 380-415, 50/60	3, 4, 380-415, 50/60
	Power Input[6]	Cooling	kW	12.4	18.7	26.0
		Heating	kW	11.8	17.5	24.4
	Current Input[6]	Cooling	A	19.6	29.6	41.2
		Heating	A	18.8	27.8	38.7
	MCA		A	32.0	46.0	58.0
	MFA		A	40.0	60.0	75.0
Compressor	Type			Scroll Inverter	Scroll Inverter	Scroll Inverter
	Output		kW × n	6.76 x 2	6.76 x 2	6.76 x 2
	Model Name			DS-GB070FAVA	DS-GB070FAVA	DS-GB070FAVA
	Oil Type			PVE	PVE	PVE
Fan	Type			Propeller	Propeller	Propeller
	Output x n		W	630 x 2	630 x 2	630 x 2
	Air Flow Rate		CMM	364 (182 x 2)	364 (182 x 2)	392 (196 x 2)
	External Static Pressure (Maximum)		mmAq	8.0	8.0	8.0
Water Side Heat Exchanger	Type			Brazing Plate	Brazing Plate	Brazing Plate
	Quantity		EA	2	2	2
	Water Flow Rate (Cooling / Heating)		LPM	120 / 120	160 / 160	186 / 200
	Pressure Drop (Set, Nominal)		kPa	60	100	120
	Maximum Operating Pressure		MPa	1.0	1.0	1.0
	Connection Type			Flange	Flange	Flange
	Pipe Connection (Inlet / Outlet) (Nominal)		Φ, mm	40	40	50
	Pipe Connection (Inlet / Outlet) (Nominal)		Φ, inch	1-1/2"	1-1/2"	2"
Refrigerant	Factory Charge (R410A)		kg	18	18	18
External Dimension	Net Weight		kg	446	446	465
	Shipping Weight		kg	468	468	487
	Net Dimensions (W x H x D)		mm	1,795 x 1,695 x 765	1,795 x 1,695 x 765	1,795 x 1,695 x 765
	Shipping Dimensions (W x H x D)		mm	1,900 x 1,887 x 919	1,900 x 1,887 x 919	1,900 x 1,887 x 919
Operating Water Temperature Range	Cooling		°C	5 to 25	5 to 25	5 to 25
	Cooling (Using Brine)		°C	-10 to 25	-10 to 25	-10 to 25
	Heating		°C	25 to 55	25 to 55	25 to 55
Operating Water flow Range	Water Flow Rate		LPM	60 to 240	80 to 320	93 to 400
	Minimum Water Storage in the System		L	294	392	490
Operating Temperature Range	Cooling		°C	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating		°C	-25 ~ 43	-25 ~ 43	-25 ~ 43

NOTE
Specification may be subject to change without prior notice.

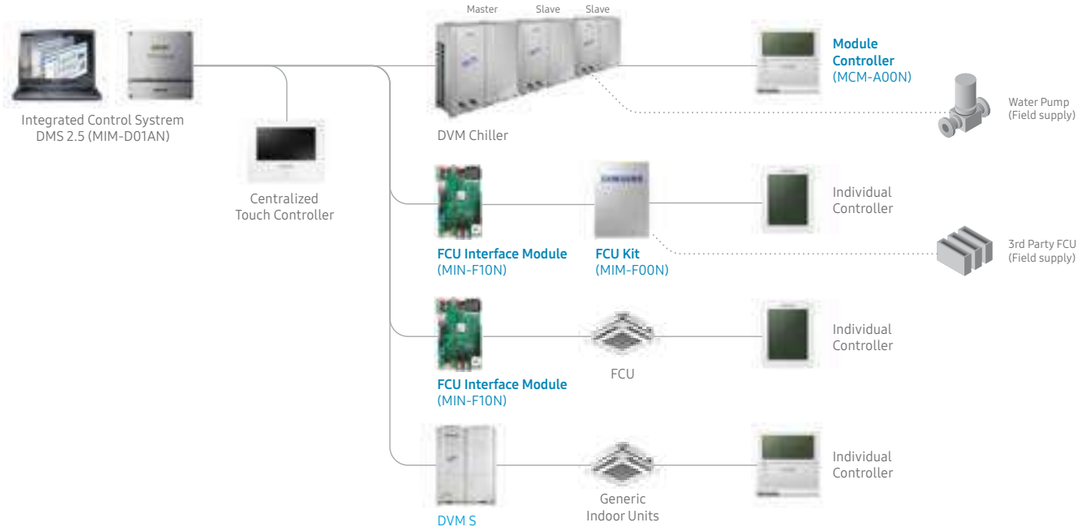
1) Specification comply with EN14511.
2) Cooling capacities are based on Chilled water inlet / outlet temperature: 12 / 7 °C, outdoor temperature: 35 °C DB, 24 °C WB.
3) Heating capacities are based on Heating water inlet / outlet temperature: 40 / 45 °C, outdoor temperature: 7 °C DB, 6 °C WB.
4) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
5) EER/COP (Pump input is included) and ESEER (Pump input is included) values are calculated based on EUROVENT condition.
6) Pump input is not included.



Controls and Accessories

(Sold Separately)

Optional Fan Coil Unit (FCU) Control Kits and Fan Coil Interface Modules are available to control and integrate third-party fan coil units to Samsung central and local controls.



MCM-A00N

Module Controller

- Required to operate the DVM Chiller
- DVM Chiller ON/OFF control (module/group)
- Operation mode, water outlet temperature setting
- Optional operation setting, module/group setting
- Weekly operation schedule setting

MIM-F10N

FCU Interface Module

- Communication interface module between FCU Control Kit and upper-level controller
- Used with MIM-F00N FCU Control Kits
- Supports FCU Kit only
- Maximum connection of 16 FCU Control Kits

MIM-F00N

FCU Kit

- Communication and control interfacing kit between 3rd party fan coil unit and Samsung control system
- Requires MIM-F10N Interface Module
- Compatible with MWR-SH11N, MWR-WE13N and MWR-WG00JN wired controllers
- Provides external contact input
- Output control signal for fan coil unit fan/water valve

Indoor Units

Wide variety of Indoor Units

Cassette Type

WindFree™
1-Way Cassette

WindFree™
4-Way Compact
Cassette

WindFree™
4-Way Cassette

360 Cassette

WindFree™
Wall Mounted

Ducted Type

Slim Duct

Duct S

HSP Duct

OAP

Ventilation

ERV
ERV Plus

Underceiling

Big Ceiling

Convertible

Cassette Systems

Innovations for added style and comfort

Samsung Cassette systems are designed to deliver you optimal comfort in style. They blend into beautifully to a variety of interiors, providing flair to your space.

Cassette systems sit concealed within the roof trusses, with the face of the unit flush against the ceiling. This design helps to optimise airflow by allowing for wider reach – making it perfect for open spaces.

Cassette Type

WindFree™ 1-Way Cassette

WindFree™ 4-Way Cassette

WindFree™ 4-Way Compact Cassette

360 Cassette

360 Cassette

Well rounded

A truly circular cassette

iF DESIGN AWARD 2016

Enjoy even airflow from a beautifully sleek design that fits into any setting

Better airflow distribution via omni-directional outlet

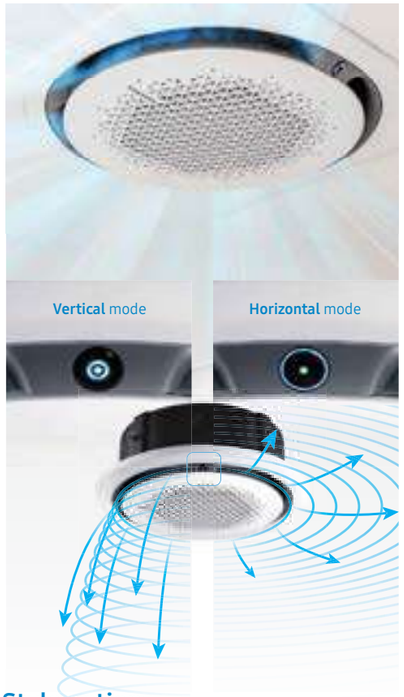
The innovative 360 degree airflow provides optimal conditions and minimises hot and cold spots – designed to provide even temperature across the room*.

Directional airflow control

360 Cassette features an innovative Booster Fan technology, which enables cool air to be directed at selected angles. The booster fans can be individually set at the same or different angles within a 10-60° range. The swing function is available when all 3 booster fans are operating in unison.

Bladeless design

Standard 4-Way Ceiling Cassettes use blades on 4 sides of the unit to distribute air. This 4-sided distribution can cause up to 25% reduction in airflow and creates uneven room temperature, resulting in hot and cold spots. With bladeless technology and the use of 3 booster fans, the 360 Cassette provides even, horizontal airflow.



Style options

The 360 Cassette is offered in both black and white for open-type (circle) and ceiling-type (square) fascia panel options (panel sold separately).

Easy access

All internal components and field wiring connections are accessible from the bottom of the unit.

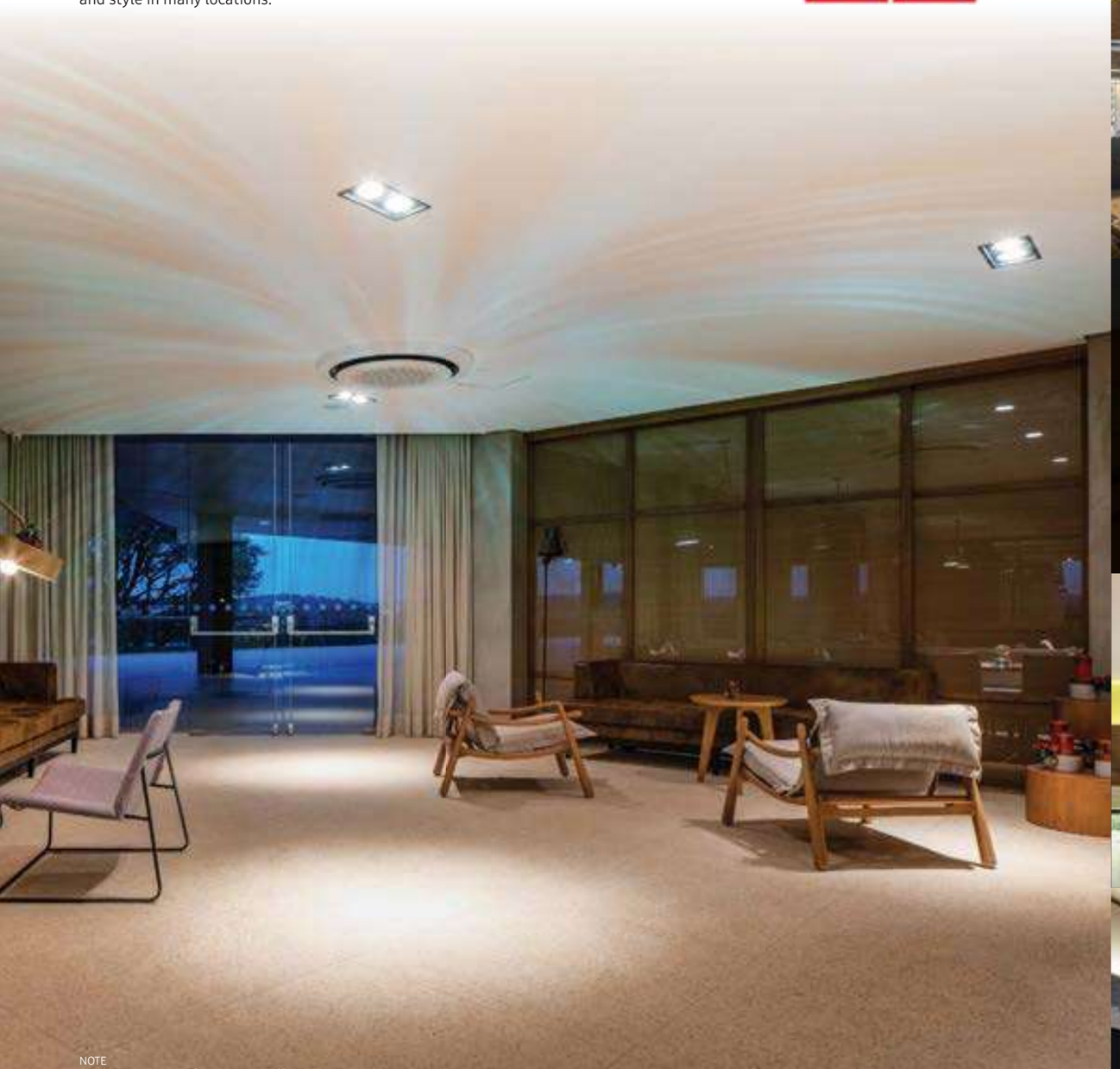
* Within a 9.3m radius, temperature difference is less than 0.6°C. Actual effect may vary depending on installation environment.

Sophisticated aesthetic, sophisticated airflow

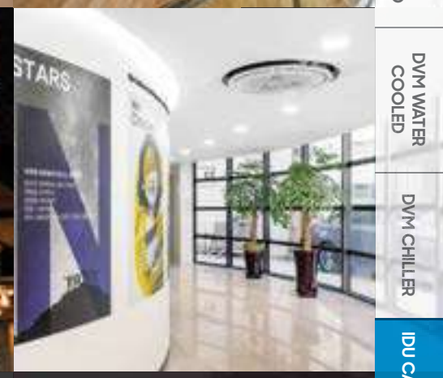
Innovative, award-winning circular design

Combining an elegantly modern look with a powerful performance and effortless control, the Samsung 360 Cassette indoor unit can provide exceptional comfort and style in many locations.

DESIGN AWARD 2016

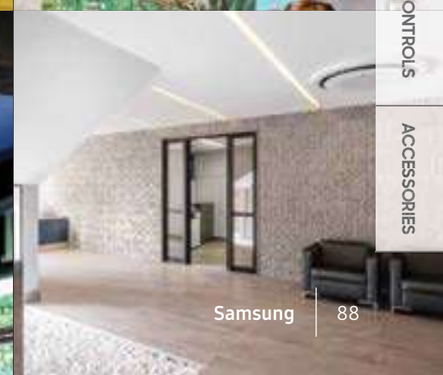


NOTE
Illustration indicative of modes, actual effect will vary depending on installation environment.



A perfect circle ensures perfect harmony with your own style

The 360 Cassette is available in a wide range of heating and cooling capacities to fit commercial and light commercial applications. Its innovative circular design can match a multitude of interior designs, so it perfectly fits in everywhere.



360 Cassette

Hygiene

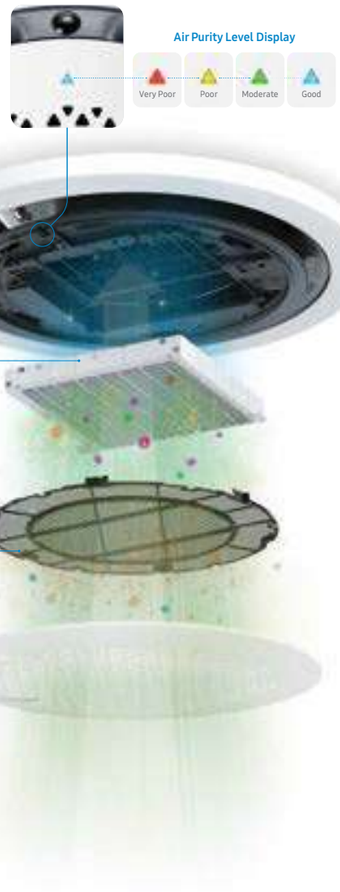
Even more comfort with even cleaner air

Staying cool is one thing, but to be really comfortable you also need to be breathing clean air. So the Samsung 360 Cassette incorporates an air purifier that is designed to improve the air quality with its advanced filtration system.

An air conditioner and an air purifier rolled into just one unit

Air Purification Panel (PC6EUCMAN)*

The Samsung 360 Cassette offers an optional Purifying Panel that keeps the indoor air fresh and clean. It consists of 2 types of filter – a Pre-Filter and a PM1.0 Filter. This 2-step filtration system ensures that you can breathe in pure, fresh air all day long. And its Air Purity Level Display clearly shows the pollution level.



PM1.0 Filter

Has an electrostatic charger that gives ultrafine dust, up to 0.3μm in size, a positive charge, so it becomes strongly attached to the ground plates.

PM1.0 Ultrafine particles	
Virus	0.005 ~ 0.3μm
Bacteria	0.3 ~ 60μm
Cigarette smoke	0.001 ~ 4μm

PM2.5 Fine particles	
Powder	0.1 ~ 30μm
Printer toner	0.5 ~ 15μm
Atmospheric	0.001 ~ 40μm
House dust	0.05 ~ 100μm
Cobweb width	2 ~ 3μm

PM10 Coarse particles	
Red blood cells	5 ~ 10μm
Car emissions	1 ~ 150μm
Pollen	6 ~ 100μm
Hair	5 ~ 200μm
Human hair	40 ~ 300μm
Sand	62 ~ 500μm
Fog	70 ~ 350μm
Glass wool	1000μm

Pre-Filter

Blocks large particles, such as household dust, fibers, etc.

Korea Air Cleaning Association

The filtration system of Samsung 360 Cassette has been certified by Korea Air Cleaning Association, based on testing using the standard KACA-CAC-2011.

* Air Purification Panel model PC6EUCMAN is sold separately.

Keep using for longer with a simple wash

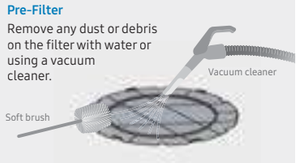
Washable Filters

The semi-permanent PM1.0 Filter and Pre-Filter are washable and reusable. It means you can continue enjoying clean, fresh air, while also saving on maintenance costs as you don't need to buy new filters.

STEP 01/ Wash

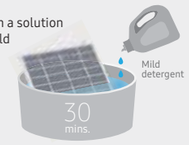
Pre-Filter

Remove any dust or debris on the filter with water or using a vacuum cleaner.



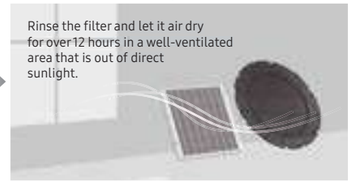
PM1.0 Filter

Soak the filter in a solution of water and mild detergent for 30 minutes.



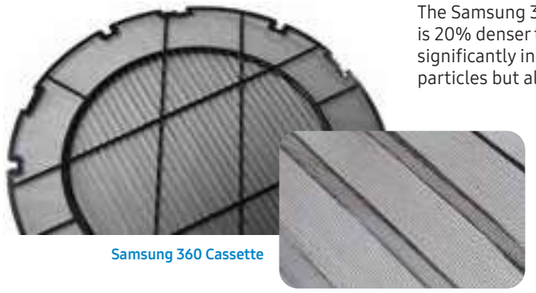
STEP 02/ Rinse and Air Dry

Rinse the filter and let it air dry for over 12 hours in a well-ventilated area that is out of direct sunlight.

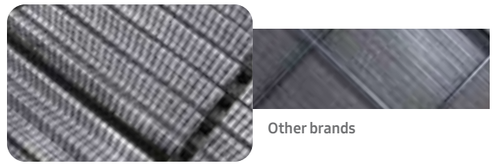


Keeps your air hygienic by capturing dust, airborne contaminants and allergens

Pre-Filter



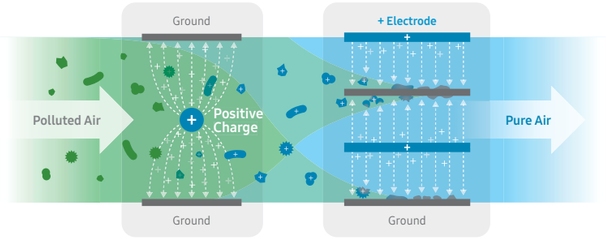
The Samsung 360 Cassette has a superior filter mesh with 0.5mm holes, which is 20% denser than a vinyl chloride type filter. And it has a ridged surface that significantly increases the contact area. So it effectively captures not only dust particles but also airborne contaminants and even certain allergens.



Proven capability to sterilize bacteria

PM1.0 Filter

The PM1.0 filter is not only effective at capturing ultrafine dust of up to 0.3μm in size, but it also sterilizes up to 99% of the bacteria trapped by the filter using an electrostatic precipitator. Its effectiveness in sterilizing bacteria has been verified by Intertek*.



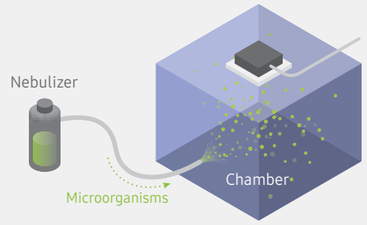
* Based on the Intertek test report (No.: RT20E-S0010-R).
Test bacteria: Escherichia coli, Staphylococcus aureus.

Intertek is a British multinational company specializing in product assurance, inspection, testing and certification. This test was rigorously conducted by Intertek, and the test result was reported officially.

"The PM 1.0 filter of Samsung Electronics can sterilize more than 99% of the microorganisms that are collected on the filter."

Test method & measurement

1. Run the air conditioner while operating the PM1.0 Filter using high voltage power and a low fan speed. Spray bacteria towards the filter using a nebulizer, so that the bacteria are captured in the filter.
2. Stop spraying bacteria and keep the filter operating for an additional 10 minutes to allow the sterilization process to happen.
3. Calculate the sterilization rate by comparing the number of bacteria remaining on the filter with the number of bacteria cultivated on the source medium.



Conclusion

More than 99% of the microorganisms, such as Escherichia coli and Staphylococcus aureus, in the PM1.0 filter were destroyed by static electricity.

360 Cassette All-round cool

Circular Design

Its full-circle design allows it to be placed beautifully to meet your aesthetic interior designs.

Balanced Air Conditioning

Innovative 360 degree airflow provides optimal air conditioning, minimising hot spots and cold spots, contributing to fast and even temperature control.

Bladeless

Bladeless design means no louver vanes to obstruct air flow, increasing air flow delivery. The Samsung booster fan design enables directional air flow settings without the need of louver blades.

LED Display

Circular LED displays airflow direction setting of horizontal and vertical airflow operation.

Model			AM045KN4DEH/EU	AM056KN4DEH/EU	AM071KN4DEH/EU
Capacity[1]	Cooling	kW	4.5	5.6	7.1
	Heating	kW	5.0	6.3	8.0
Air Flow Rate	H / M / L	l/s	242 / 225 / 208	267 / 242 / 225	300 / 267 / 233
Sound Pressure[2]	H / M / L	dBA	33 / 31 / 29	34 / 32 / 29	36 / 33 / 30
Sound Power[2]	Cooling (Nominal)	dBA	50	51	53
Unit	Dimensions (W x H x D)	mm	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947
	Weight	kg	21	21	21
Internal Unit Height from Ceiling (Standard Installation)	With Circular Panel	mm	205	205	205
	With Square Panel	mm	233	233	233
Panel (Order Separately)	Model (Square, White)		PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
	W x H x D	mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000
	Weight	kg	3.6	3.6	3.6
	Model (Round, White)		PC4NUNMAN	PC4NUNMAN	PC4NUNMAN
	Ø x D	mm	1050Ø x 94H	1050Ø x 94H	1050Ø x 94H
	Weight	kg	2.7	2.7	2.7
Air Purification Panel (Sold Separately)	Model (Round, White)		PC6EUCMAN	PC6EUCMAN	PC6EUCMAN
	W x H x D	mm	1050Ø x 102H	1050Ø x 102H	1050Ø x 102H
	Weight	kg	6.0	6.0	6.0
Drain Pump	Type		Built-in	Built-in	Built-in
	Lift	mm	550	550	550

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m); Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Model			AM090KN4DEH/EU	AM112KN4DEH/EU	AM128KN4DEH/EU	AM140KN4DEH/EU
Capacity[1]	Cooling	kW	9.0	11.2	12.8	14.0
	Heating	kW	10.0	12.5	13.8	16.0
Air Flow Rate	H / M / L	l/s	367 / 308 / 267	425 / 350 / 292	492 / 400 / 317	525 / 442 / 350
Sound Pressure[2]	H / M / L	dBA	40 / 36 / 32	40 / 36 / 32	42 / 38 / 33	44 / 40 / 35
Sound Power[2]	Cooling (Nominal)	dBA	57	58	60	61
Unit	Dimensions (W x H x D)	mm	947 x 281 x 947	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
	Weight	kg	21	24	24	24
Internal Unit Height from Ceiling (Standard Installation)	With Circular Panel	mm	205	289	289	289
	With Square Panel	mm	233	317	317	317
Panel (Order Separately)	Model (Square, White)		PC4NUDMAN	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
	W x H x D	mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000
	Weight	kg	3.6	3.6	3.6	3.6
	Model (Round, White)		PC4NUNMAN	PC4NUNMAN	PC4NUNMAN	PC4NUNMAN
	Ø x D	mm	1050Ø x 94H	1050Ø x 94H	1050Ø x 94H	1050Ø x 94H
	Weight	kg	2.7	2.7	2.7	2.7
Air Purification Panel (Sold Separately)	Model (Round, White)		PC6EUCMAN	PC6EUCMAN	PC6EUCMAN	PC6EUCMAN
	W x H x D	mm	1050Ø x 102H	1050Ø x 102H	1050Ø x 102H	1050Ø x 102H
	Weight	kg	6.0	6.0	6.0	6.0
Drain Pump	Type		Built-in	Built-in	Built-in	Built In
	Lift	mm	550	550	550	550

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m); Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Optional Accessories (sold separately)

Individual Controllers




AR-KH03E **MWR-WE13N** **MWR-WG00JN** **MIM-H04AN**

Images are for illustration purposes. Product images may be different to actual product, product size varies depending on model.

Optional Accessories (sold separately)

Panels





PC4NUDMAN **PC4NBDMAN** **PC4NUNMAN** **PC4NBNMAN** **PC6EUCMAN**
Air purification panel

Images are for illustration purposes. Product images may be different to actual product, product size varies depending on model.

Samsung's Innovative WindFree™ Technology

15,700

Micro Air Holes*

Its lack of wind will blow you away

Stay comfortably cool without feeling cold

WindFree™ * Cooling technology maintains the desired temperature and eliminates cold drafts by delivering air through micro holes on the unit's fascia panel when the louvers are closed, producing a dispersed and gentle flow of air defined as "still air." The **Wind**Free™ fascia panel includes a humidity sensor to prevent condensation by restricting **Wind**Free™ operation in high humidity conditions. **Wind**Free™ operation is available in cooling mode only.

* Creates a 'Still Air' environment. ASHRAE defines "Still Air" as air currents at speeds below 0.15m/s which lacks the presence of cold drafts. The device provides cooling at or below this speed in **Wind**Free Cooling mode. Illustration indicative only, actual effect will vary.

Illustration indicative of modes.
Actual effect will vary.

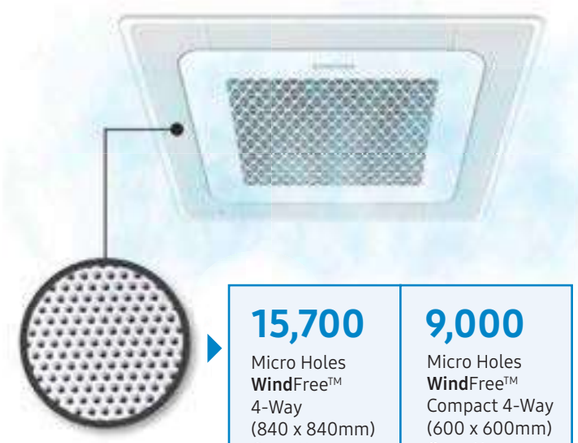
15,700
Micro Holes

*ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines **'Still Air'** as air currents at speeds below 0.15m/s which lacks the presence of cold drafts. This indoor unit provides cooling below this speed in **Wind**Free™ Cooling mode.

Reduced Cold Draft while in WindFree™ Cooling mode*

WindFree™ * 4-Way Cassette

Samsung's **Wind**Free™ 4-Way Cassette is the latest in air conditioning innovation. With its specialised blades, adjustable operation and seamless blend of style and utility, the 4-Way Cassette can sustain cooling comfort in a plethora of environments.



15,700
Micro Holes
WindFree™
4-Way
(840 x 840mm)
Cassette

9,000
Micro Holes
WindFree™
Compact 4-Way
(600 x 600mm)
Cassette

WindFree™ * cooling with micro holes

The **Wind**Free™ 4-Way Cassette pushes air out through 15,700 micro holes in the panel, producing a dispersed and gentle flow called "still air". The uniform air distribution effortlessly keeps a room cool while avoiding the conventional discomfort of cold drafts*.

Hands-free comfort

A 2-Step Cooling system cools air fast in Fast Cooling mode, before automatically switching to **Wind**Free™ Cooling to maintain the desired temperature once it is reached, this way you stay comfortable without a need to change the settings.

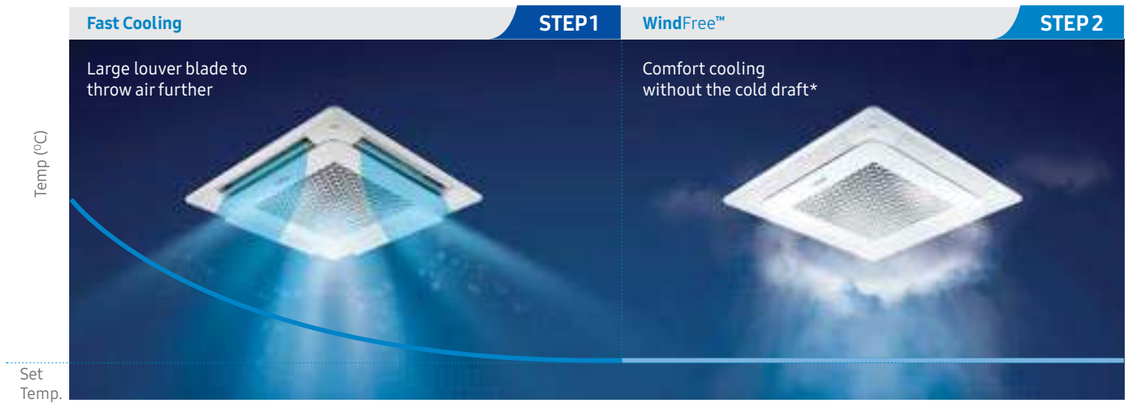


Illustration indicative of modes. Actual effect will vary.

* ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines 'Still Air' as air currents at speeds below 0.15m/a which lacks the presence of cold drafts. The device provides cooling below this speed in **Wind**Free Cooling mode.

Wide cooling range

The large, optimised blades enable a wide cooling range, resulting in good air circulation. In this way, a room can be cooled fast and with limited dead zones.

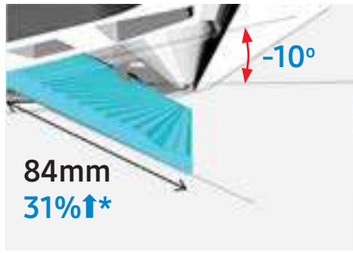


Illustration indicative of modes. Actual effect will vary.

* Comparing **Wind**Free 4-Way Cassette (840x840mm) to Standard 4-Way Cassette (840x840mm).

Smart comfort operation

The **Wind**Free™ 4-Way Cassette cools a room to your comfort zone fast, before switching to **Wind**Free™ Cooling mode automatically to help maintain that comfortable temperature.

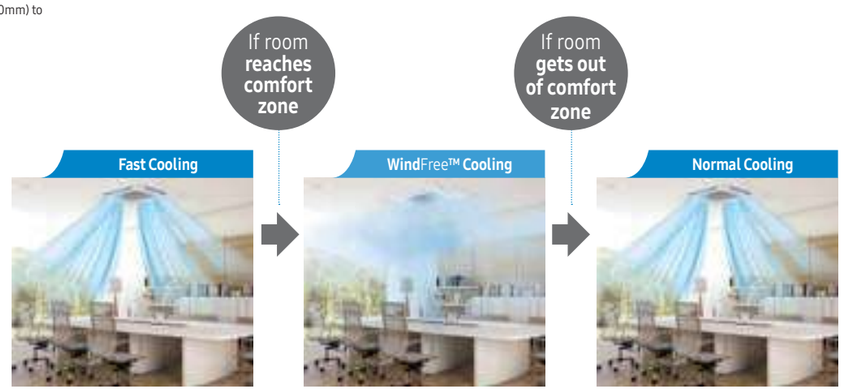
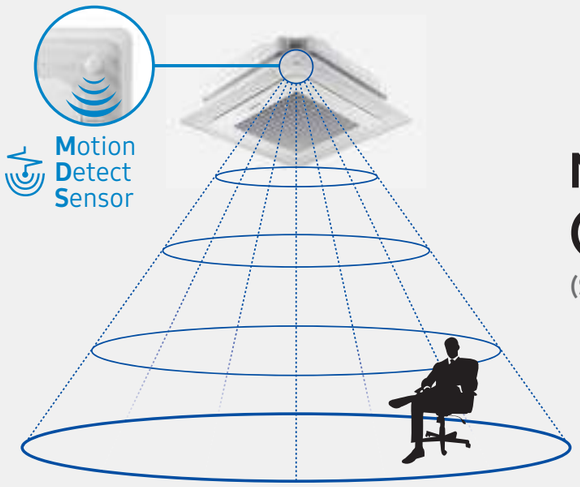


Illustration indicative of modes. Actual effect will vary.



Motion Detect Sensor (MDS) operation

(Sold separately)

* ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines 'Still Air' as air currents at speeds below 0.15m/a which lacks the presence of cold drafts. The device provides cooling below this speed in **Wind**Free Cooling mode.

WindFree™ 4-Way Cassette

Hygiene

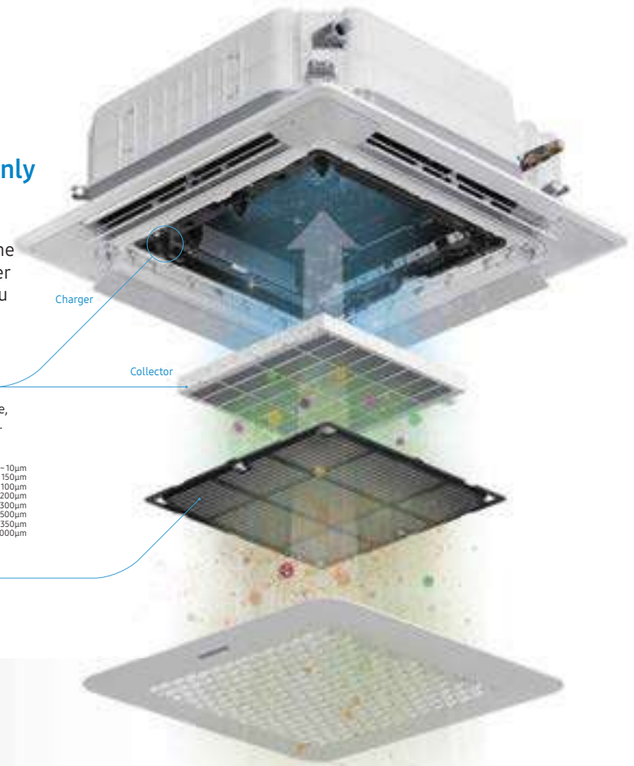
Even more comfort with even cleaner air

Staying cool is one thing, but to be really comfortable you also need to be breathing clean air. So the Samsung **Wind**Free™ 4-Way Cassette incorporates an air purifier that is designed to improve the air quality with its advanced filtration system.

An air conditioner and an air purifier rolled into one unit

Air Purification Panel (PC4NUCEAN)* Applicable for 840 x 840 Cassette models only

The Samsung **Wind**Free™ 4-Way Cassette not only has a general panel but can also include an optional Purifying Panel that keeps the indoor air fresh and clean. It consists of 2 types of filter – a Pre-Filter and a PM1.0 Filter, and this 2-step filtration system ensures that you can breathe in pure, fresh air all day long.



PM1.0 Filter

Has an electrostatic charger that gives ultrafine dust, up to 0.3μm in size, a negative charge, so it becomes strongly attached to the ground plates.

PM1.0 Ultrafine particles		PM2.5 Fine particles		PM10 Coarse particles	
Virus	0.005 ~ 0.3μm	Powder	0.1 ~ 30μm	Red blood cells	5 ~ 10μm
Bacteria	0.3 ~ 60μm	Printer toner	0.5 ~ 15μm	Car emissions	1 ~ 150μm
Cigarette smoke	0.001 ~ 4μm	Atmospheric	0.001 ~ 40μm	Pollen	6 ~ 100μm
		House dust	0.05 ~ 100μm	Hair	5 ~ 200μm
		Cobweb width	2 ~ 3μm	Human hair	40 ~ 300μm
				Sand	62 ~ 500μm
				Fog	70 ~ 350μm
				Glass wool	1000μm

Pre-Filter

Blocks large particles, such as household dust, fibers, etc.

Korea Air Cleaning Association

The filtration system of the **Wind**Free™ 4Way Cassette has been certified by the Korea Air Cleaning Association. Based on testing using the standard KACA-CAC-2011.

* Air Purification Panel model PC4NUCEAN is sold separately.

Keep using for longer with a simple wash

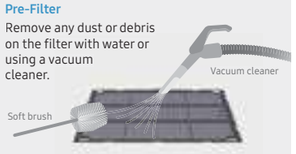
Washable Filters

The semi-permanent PM1.0 Filter and Pre-Filter are washable and reusable. It means you can continue enjoying clean, fresh air, while also saving on maintenance costs as you don't need to buy new filters.

STEP 01/ Wash

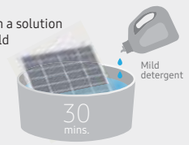
Pre-Filter

Remove any dust or debris on the filter with water or using a vacuum cleaner.



PM1.0 Filter

Soak the filter in a solution of water and mild detergent for 30 minutes.



STEP 02/ Rinse and Air Dry

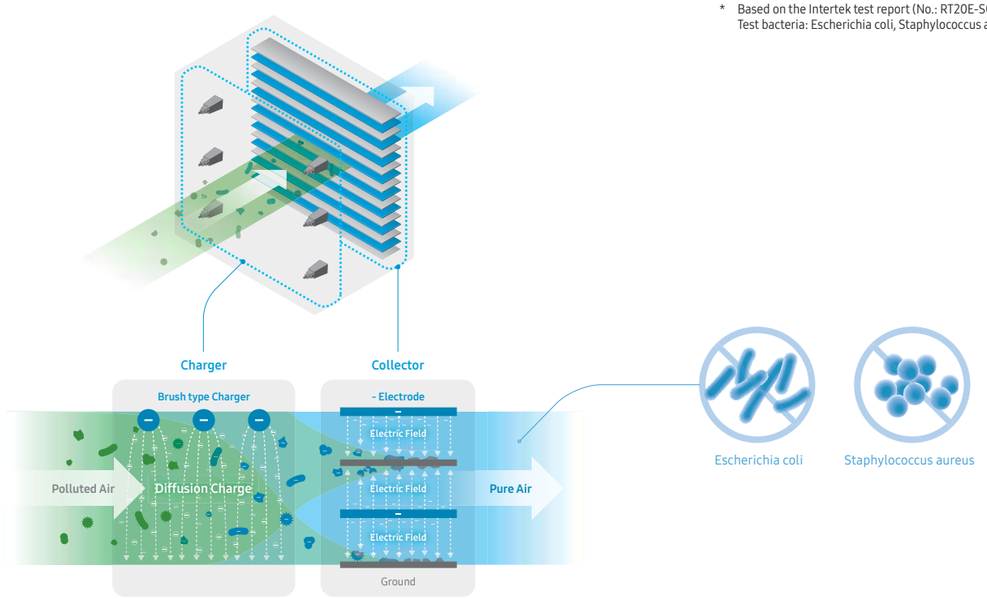
Rinse the filter and let it air dry for over 12 hours in a well-ventilated area that is out of direct sunlight.

Proven capability to sterilize bacteria as well as capturing ultrafine dust

PM1.0 Filter

The PM1.0 filter is not only effective at capturing ultrafine dust of up to 0.3μm in size, but it also sterilizes up to 99% of the bacteria trapped by the filter using an electrostatic precipitator. It has two main parts that charge and collect dust and bacteria. The brush discharger generates negative ions. And these give the dust particles and bacteria a negative charge, so they become strongly attached to the ground electrode due to the electrostatic force of the collector.
Its effectiveness in sterilizing bacteria has been verified by Intertek*.

* Based on the Intertek test report (No.: RT20E-S0025).
Test bacteria: Escherichia coli, Staphylococcus aureus.



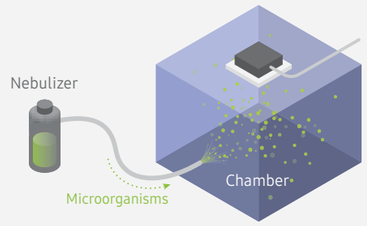
intertek
Total Quality. Assured.

Intertek is a British multinational company specializing in product assurance, inspection, testing and certification. This test was rigorously conducted by Intertek, and the test result was reported officially.

"The PM 1.0 filter of Samsung Electronics can sterilize more than 99% of the microorganisms that are collected on the filter."

Test method & measurement

1. Run the air conditioner while operating the PM1.0 Filter using high voltage power and a low fan speed. Spray bacteria towards the filter using a nebulizer, so that the bacteria are captured in the filter.
2. Stop spraying bacteria and keep the filter operating for an additional 10 minutes to allow the sterilization process to happen.
3. Calculate the sterilization rate by comparing the number of bacteria remaining on the filter with the number of bacteria cultivated on the source medium.



Conclusion

More than 99% of the microorganisms, such as Escherichia coli and Staphylococcus aureus, in the PM1.0 filter were destroyed by static electricity.

WindFree™ *

4-Way Cassette (840 x 840mm)

- Comfort **Wind**Free™ setting without the draft, offering flexibility to meet your comfort control
- Fast cooling when you need most, and comfort **Wind**Free™ cooling to maintain that comfortable temperature
- Rounded panel frame promotes a neat, tidy look for an aesthetic flair that blends with any ambience
- Ideally suited for indoor open spaces, delivering conditioned air to where you need most
- Built-in drain pump
- Air purification panel option available

Model			AM045NN4DEH/EU	AM056NN4DEH/EU	AM071NN4DEH/EU	AM090NN4DEH/EU	AM112NN4DEH/EU	AM128NN4DEH/EU	AM140NN4DEH/EU
Capacity[1]	Cooling	kW	4.5	5.6	7.1	9	11.2	12.8	14
	Heating	kW	5	6.3	8	10	12.5	13.8	16
Air Flow Rate	H / M / L	l/s	242 / 225 / 208	250 / 233 / 217	283 / 258 / 242	325 / 300 / 275	433 / 400 / 367	467 / 433 / 383	500 / 467 / 433
Sound Pressure[2]	H / M / L	dBA	33 / 32 / 30	33 / 32 / 30	35 / 34 / 33	39 / 36 / 33	40 / 38 / 35	42 / 40 / 35	44 / 41 / 35
Sound Power[2]	Cooling (Nominal)	dBA	49	50	54	57	57	58	60
Unit	Dimensions (W x H x D)	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
	Weight	kg	15	15	15	15	16.5	18.5	18.5
Standard Panel (Sold Separately)	Model		PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
	W x H x D	mm	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950
	Weight	kg	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Air Purification Panel (Sold Separately)	Model		PC4NUCEAN	PC4NUCEAN	PC4NUCEAN	PC4NUCEAN	PC4NUCEAN	PC4NUCEAN	PC4NUCEAN
	W x H x D	mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
	Weight	kg	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Drain Pump	Type		Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
	Lift / Flow Rate	mm, l/h	750, 24	750, 24	750, 24	750, 24	750, 24	750, 24	750, 24

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
   - Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

* ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines 'Still Air' as air currents at speeds below 0.15m/a which lacks the presence of cold drafts.
The device provides cooling below this speed in **Wind**Free Cooling mode.

Optional Accessories (Sold Separately)

Individual Controllers

AR-EH03E

MWR-WE13N

MWR-SH11N

MWR-WG00JN

MIM-H04AN

Panels

PC4NUFMAN

PC4NUCEAN
Air purification panel

Images are for illustration purposes. Product images may be different to actual product, product size varies depending on model.

WindFree™ *

4-Way Compact Cassette (600 x 600mm)

- Comfort **Wind**Free™ setting without the draft, offering flexibility to meet your comfort control
- Rounded panel frame promotes a neat, tidy look for an aesthetic flair that blends with any ambience
- Compact size (570mm x 570mm square) suited to fit within a standard ceiling grid tile
- Built-in drain pump

Model			AM015NNNDEH/EU	AM022NNNDEH/EU	AM028NNNDEH/EU	AM036NNNDEH/EU	AM045NNNDEH/EU	AM056NNNDEH/EU	AM060NNNDEH/EU
Capacity[1]	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.6	6
	Heating	kW	1.7	2.5	3.2	4	5	6.3	6.8
Air Flow Rate	H / M / L	l/s	142 / 120 / 108	150 / 128 / 108	167 / 142 / 125	175 / 150 / 125	192 / 170 / 150	217 / 183 / 158	225 / 200 / 170
Sound Pressure[2]	H / M / L	dBA	30 / 28 / 23	32 / 29 / 25	33 / 30 / 26	34 / 30 / 26	36 /34 / 32	39 / 36 / 33	40 / 38 / 35
Sound Power[2]	Cooling (Nominal)	dBA	46	47	50	51	53	56	57
Unit	Dimensions (W x H x D)	mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
	Weight	kg	11.7	12	12	12	12	12	12
Panel (Order Separately)	Model		PC4SUFMAN	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN
	W x H x D	mm	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620
	Weight	kg	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Drain Pump	Type		Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
	Lift / Flow Rate	mm, l/h	750, 24	750, 24	750, 24	750, 24	750, 24	750, 24	750, 24

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
   - Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

* ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines 'Still Air' as air currents at speeds below 0.15m/a which lacks the presence of cold drafts.
The device provides cooling below this speed in **Wind**Free Cooling mode.

Optional Accessories (Sold Separately)

Individual Controllers

AR-EH03E

MWR-WE13N

MWR-SH11N

MWR-WG00JN

MIM-H04AN

Panels

PC4SUFMAN

Images are for ilustration purposes. Product images may be different to actual product, product size varies depending on model.

WindFree™ provides all day comfort, and helping to ensure you feel relaxed and refreshed

WindFree™ Cooling effectively maintains a comfortable level of coolness without the unpleasant feeling of direct cold wind draft. Cool air is gently dispersed through micro air holes, helping to maintain the space temperature.

10,000[1]

Micro Air Holes

Samsung **Wind**Free™ 1-Way Cassette cools effectively without the unpleasant sensation of cold wind being blown directly onto your skin. Cool air is gently dispersed across the room through 10,000[1] micro air holes that are just 1.4mm in diameter. It creates a still air[2] environment with low air speed of just 0.15m/s, so there are minimal drafts to disturb you, helping to maintain a comfortable environment.

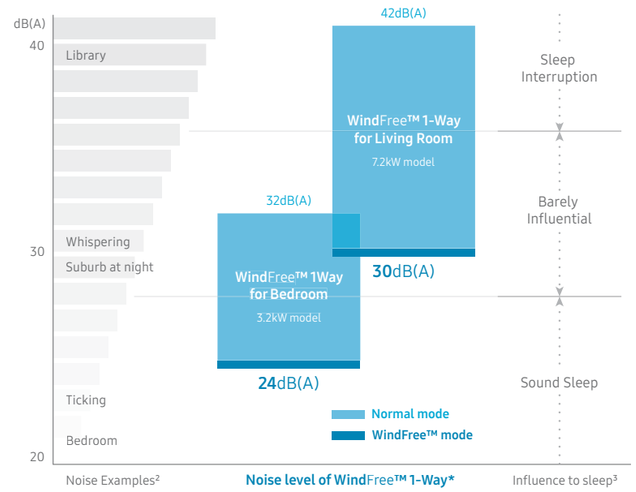
1) The number of micro air holes may vary depending on model.
2) ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) defines "still air" as when the velocity of air is below 0.15m/s, minimising cold drafts.

Less detectable noise, more comfort

Quiet Operation

The **Wind**Free™ 1-Way Cassette minimizes ambient noise while gently dispersing cool air across the room. In **Wind**Free™ mode the operating noise is only 24[1] dBA, which is low when comparing to other sounds such as whispering with a sound level of 30[2] dBA.

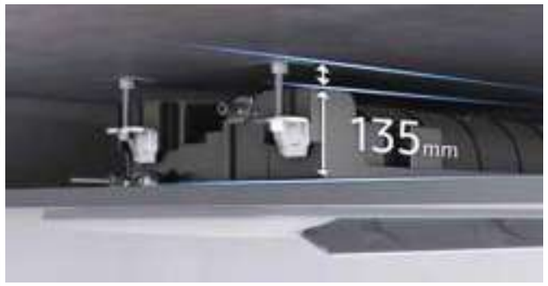
1) Based on internal testing with **Wind**Free™ 1-Way Cassette overseas model (AM032MN1DBH1), which is usually installed in a bedroom, and a 7.2kW model in a living room. May vary by model and depending on the actual usage conditions.
2) Based on the Standard of National Noise Information System (Korea).
3) Based on the Bedroom Standard by WHO.



Low profile installation, means more living space

Slim Design

At only 135mm it can fit into small ceiling spaces, providing an elegant solution where space is limited.



Every Corner

The 1-Way Cassette Auto Swing function combined with it's 100mm discharge blade means it can deliver airflow further and wider into the air conditioned space. This means auto up-down and left-right swing function is designed to drive air to most parts of the space.

Vertical swing: 30° ~ 80°
Horizontal swing: -45° ~ +45°

Hygiene

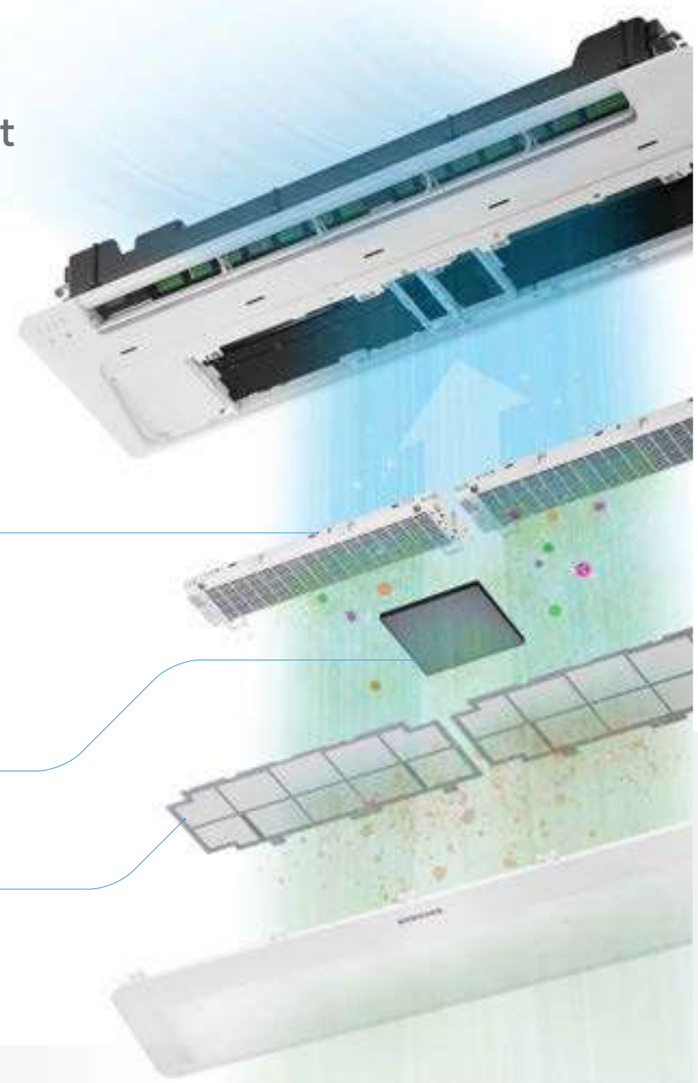
Even more comfort with even cleaner air

Staying cool is one thing, but to be really comfortable you also need to be breathing clean air. So the Samsung **Wind**Free™ 1-Way Cassette incorporates an air purifier that is designed to improve the air quality with its advanced filtration system.

An air conditioner and an air purifier rolled into one unit

Air Purification Panel*

The Samsung **Wind**Free™ 1-Way Cassette not only has a general panel but can also include an optional Purifying Panel that keeps the indoor air fresh and clean. The Purifying Panel consists of 3 types of filter – a Pre-Filter, Deodorization Filter and a PM1.0 Filter. This 3-step filtration system ensures that you can breathe in pure, fresh air all day long.



PM1.0 Filter

Has an electrostatic charger that gives ultrafine dust, up to 0.3μm in size, a positive charge, so it becomes strongly attached to the ground plates.

PM1.0 1μm Ultrafine particles		PM2.5 2.5μm Fine particles		PM10 10μm Coarse particles	
Virus	0.005 ~ 0.3μm	Powder	0.1 ~ 30μm	Red blood cells	5 ~ 10μm
Bacteria	0.3 ~ 60μm	Printer toner	0.5 ~ 15μm	Car emissions	1 ~ 150μm
Cigarette smoke	0.001 ~ 4μm	Atmospheric	0.001 ~ 40μm	Pollen	6 ~ 100μm
		House dust	0.05 ~ 100μm	Hair	5 ~ 200μm
		Cobweb width	2 ~ 3μm	Human hair	40 ~ 300μm
				Sand	62 ~ 500μm
				Fog	70 ~ 350μm
				Glass wool	1000μm

Deodorization Filter

Captures unpleasant odours.

Pre-Filter

Blocks large particles, such as household dust, fibers, etc.

Korea Air Cleaning Association

The filtration system of the **Wind**Free™ 1-Way has been certified by Korea Air Cleaning Association. Based on testing using the standard KACA-CAC-2011.

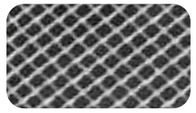
* This function is an optional feature, sold separately. The number and shape of filters may vary by model.

20% denser to capture more

Pre-Filter

The Pre-Filter of the **Wind**Free™ 1-Way Cassette is 50 mesh (about 0.5 mm), which is 20% denser than general vinyl chloride filters. So it can capture much finer dust particles, ensuring less dust in the indoor space and better air quality. The cleaning alarm indicator on the decoration panel lights up to inform you when it's time to clean the filter, and you can easily remove it by opening the return grille.

Vinyl Chloride Mesh Filter
Commonly used in general ducted air conditioners



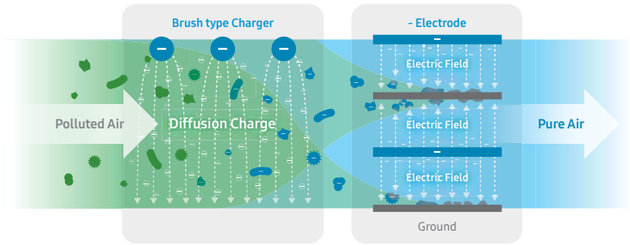
Samsung's 50 Mesh Filter
Used in Samsung **Wind**Free™ 1-Way air conditioners

Filter Alarm

Proven capability to sterilize bacteria as well as capturing ultrafine dust

PM1.0 Filter

The PM1.0 filter is not only effective at capturing ultrafine dust of up to 0.3μm in size, but it also sterilizes up to 99% of the bacteria trapped by the filter using an electrostatic precipitator. It has two main parts that charge and collect dust and bacteria. The brush discharger generates negative ions. And these give the dust particles and bacteria a negative charge, so they become strongly attached to the ground electrode due to the electrostatic force of the collector. Its effectiveness in sterilizing bacteria has been verified by Intertek*.



* Based on the Intertek test report (No.: RT20E-S0025).
Tested bacteria: Escherichia coli, Staphylococcus aureus.

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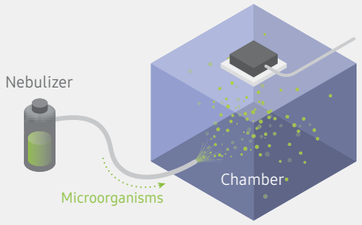
"The PM 1.0 filter of Samsung Electronics can sterilize more than 99% of the microorganisms that are collected on the filter."

Test method & measurement

1. Run the air conditioner while operating the PM1.0 Filter using high voltage power and a low fan speed. Spray bacteria towards the filter using a nebulizer, so that the bacteria are captured in the filter.
2. Stop spraying bacteria and keep the filter operating for an additional 10 minutes to allow the sterilization process to happen.
3. Calculate the sterilization rate by comparing the number of bacteria remaining on the filter with the number of bacteria cultivated on the source medium.



Conclusion

More than 99% of the microorganisms, such as Escherichia coli and Staphylococcus aureus, in the PM1.0 filter were destroyed by static electricity.

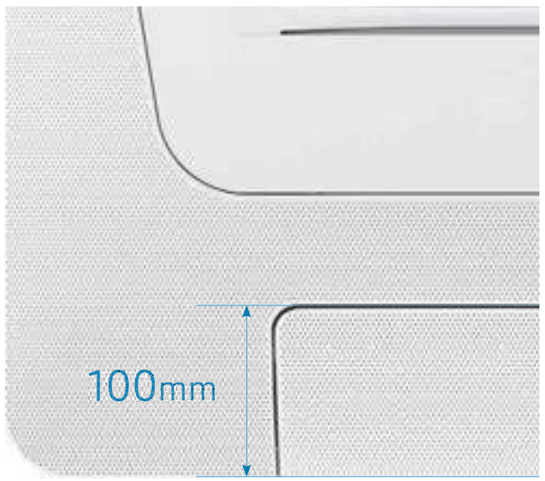
Get cool fast, Stay Cool without Direct Draft

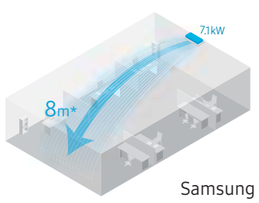
WindFree™ * Cooling effectively maintains a comfortable level of coolness without the unpleasant feeling of direct cold wind draft*. Cool air is gently dispersed through micro air holes, helping to maintain the space temperature.

Keeps comfortable without changing settings

The 2-Step Cooling cools the air fast in Fast Cooling, then automatically changes to **Wind**Free™ * to help to maintain the temperature, so you stay comfortable, and minimise the need to change settings.

Illustration indicative of modes. Actual effect will vary.



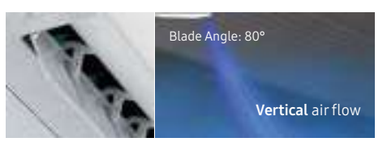


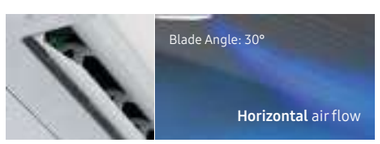
Samsung **Wind**Free™ 1-Way

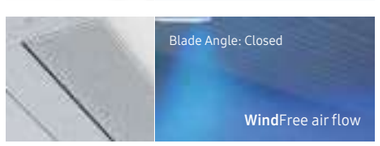
Comfort where its need it

Cool your room quickly from one end to the other with Samsung **Wind**Free™ 1-Way Cassette. Using a large air discharge blade it can deliver cool air over a long distance, reaching up to 8 meters*. It also has a wide operating angle, as the blade can swing vertically between 30 to 80 degree angle, helping to cool the room evenly with minimal “dead zones”.

* Based on internal testing with 7.1kW model. Results may vary depending on installation and usage environment.







WindFree™ * 1-Way Cassette

- Comfort **Wind**Free™ setting without the draft*, offering flexibility to meet your comfort control
- Rounded panel frame promotes a neat, tidy look for an aesthetic flair that blends well with any ambience
- Built-in drain pump

Model			AM017NN1PEH/EU	AM022NN1PEH/EU	AM028NN1DEH/EU	AM036NN1DEH/EU	AM056NN1DEH/EU	AM071NN1DEH/EU
Capacity[1]	Cooling	kW	1.7	2.2	2.8	3.6	5.6	7.1
	Heating	kW	1.9	2.5	3.2	4	6.3	8
Air Flow Rate	H / M / L	l/s	80 / 72 / 68	85 /77 /72	117 /100 / 83	133 /117 / 100	267 / 233 / 208	283 / 258 / 233
Sound Pressure[2]	H / M / L	dBA	28 / 26 / 24	29 / 26 /24	32 / 28 / 24	37 / 33 / 30	41 / 38 / 35	42 / 39 / 36
Sound Power[2]	Cooling (Nominal)	dBA	46	47	50	55	59	60
Unit	Dimensions (W x H x D)	mm	740 x 135 x 360	740 x 135 x 360	970 x 135 x 410	970 x 135 x 410	1200 x 138 x 450	1200 x 138 x 450
	Weight	kg	8	8	10	10	13.5	13.5
Panel (Order Separately)	Model		PC1MWFMAN	PC1MWFMAN	PC1NWFMAN	PC1NWFMAN	PC1BWFMAN	PC1BWFMAN
	W x H x D	mm	960 x 35 x 420	960 x 35 x 420	1198 x 35 x 500	1198 x 35 x 500	1410 x 35 x 500	1410 x 35 x 500
	Weight	kg	2.6	2.6	4.3	4.3	5.0	5.0
	Model - Air Purification Panel		PC1MWCMAN	PC1MWCMAN	PC1NWCMAN	PC1NWCMAN	PC1BWCMAN	PC1BWCMAN
	W x H x D	mm	960 x 34 x 420	960 x 34 x 420	1198 x 34 x 500	1198 x 34 x 500	1410 x 34 x 500	1410 x 34 x 500
	Weight	kg	3.9	3.9	5.6	5.6	6.9	6.9
Drain Pump	Type		Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
	Lift / Flow Rate	mm, l/h	750, 24	750, 24	750, 24	750, 24	750, 24	750, 24

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
   Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

* ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines ‘Still Air’ as air currents at speeds below 0.15m/a which lacks the presence of cold drafts. The device provides cooling below this speed in **Wind**Free Cooling mode.

Optional Accessories (Sold Separately)

Individual Controllers

AR-EH03E MWR-WE13N MWR-SH11N MWR-WG00JN MIM-H04AN

Panels

PC1MWFMAN
PC1NWFMAN
PC1BWFMAN

PC1MWCMAN
PC1NWCMAN
PC1BWCMAN
Air purification panel

Images are for ilustration purposes. Product images may be different to actual product, product size varies depending on model.

Versatility as standard. All your ducted needs equipped in one unit

Samsung has a comprehensive range of ducted indoor units designed to meet your project requirements; whether its slim ducted indoor units for above wardrobe installations, to medium to high static ducted indoor units for those large spaces with multiple ducted outlets.

Ducted Type

Slim Duct

High Static Ducted

Duct S

OAP Ducted

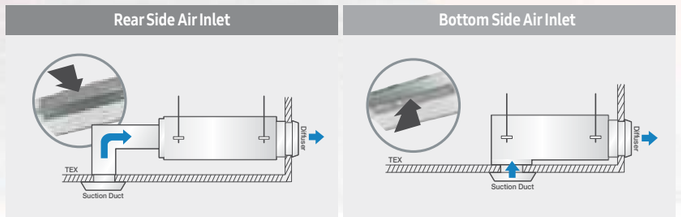
Flexibility - Easy installation in various ceiling conditions

The Compact Samsung Slim Duct air conditioner visually blends into the ceiling. It's so easy to maintain in any interior, making it perfect for apartment living

Fits into many different spaces

2-Way Air Inlet

The Slim Duct features a 2-Way Air Inlet – bottom or rear – that gives you much more flexibility in selecting an installation location. It can be configured to suit almost any room, providing the optimum air flow to the surrounding space, while being discretely concealed behind ceilings, so it blends in.



Blends in seamlessly

Slim & Compact Design (199mm Height)

Enhance the look and feel of almost any space. With a height of just 199mm and a width of 700mm*, the Slim Duct's slim and compact design is highly elegant and unobtrusive, so it can be discretely concealed in many more locations. It also makes its installation, maintenance and repair quick and easy, so it provides a suitable and effective solution for cooling and heating a wide range of businesses.

* Based on the AM036KNLDEH/EU model. The width of other models may vary.

Compact Slim Ducted

- Slim and light-weight
- 440mm depth and 199mm height models ideally suited for wardrobe bulkhead installations
- Quiet operation
- Flexible installation: rear return air or bottom return air (model dependent)
- Built-in drain pump

Compact 440mm depth and 199mm height

Model			AM017KNLDEH/EU	AM022KNLDEH/EU	AM028KNLDEH/EU	AM036KNLDEH/EU	AM045MNLDEH/EU	AM056MNLDEH/EU	AM071MNLDEH/EU
Capacity[1]	Cooling	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Air Flow Rate	H / M / L	l/s	91 / 74 / 63	100 / 82 / 63	117 / 86 / 72	137 / 108 / 82	208 / 166 / 125	258 / 208 / 158	300 / 241 / 183
Static Pressure	H / L	Pa	29 / 0	29 / 0	29 / 0	29 / 0	39 / 0	39 / 0	39 / 0
Sound Pressure[2]	H / M / L	dBA	25 / 22 / 19	26 / 23 / 19	28 / 24 / 19	31 / 26 / 20	32 / 28 / 25	34 / 30 / 26	34 / 30 / 27
Sound Power[2]	Cooling (Nominal)	dBA	40	42	44	46	49	51	53
Unit	Dimensions (W x H x D)	mm	700 x 199 x 440	700 x 199 x 440	700 x 199 x 440	700 x 199 x 440	900 × 199 × 440	900 × 199 × 440	1100 x 199 x 440
	Weight	kg	15.3	15.3	15.3	15.7	18.9	18.9	22.3
Drain Pump	Type - Internal		Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
	Lift / Flow Rate	mm, l/h	750, 24	750, 24	750, 24	750, 24	750, 24	750, 24	750, 24

690mm depth and 295mm height

Model			AM090KNLDEH/EU	AM112KNLDEH/EU	AM128KNLDEH/EU	AM140KNLDEH/EU
Capacity[1]	Cooling	kW	9.0	11.2	12.8	14.0
	Heating	kW	10.0	12.5	13.8	16.0
Air Flow Rate	H / M / L	l/s	483 / 450 / 417	520 / 483 / 450	567 / 533 /5 00	600 / 567 / 533
Static Pressure	H / L	Pa	59 / 0	59 / 0	59 / 0	59 / 0
Sound Pressure[2]	H / M / L	dBA	37 / 36 / 34	37 / 36 / 34	37 / 36 / 34	39 / 38 / 36
Sound Power[2]	Cooling (Nominal)	dBA	66	66	66	68
Unit	Dimensions (W x H x D)	mm	1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690
	Weight	kg	40.5	40.5	42	42
Drain Pump	Type - Internal		Built-in	Built-in	Built-in	Built-in
	Lift / Flow Rate	mm, l/h	750, 24	750, 24	750, 24	750, 24

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB/24°C WB
   - Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

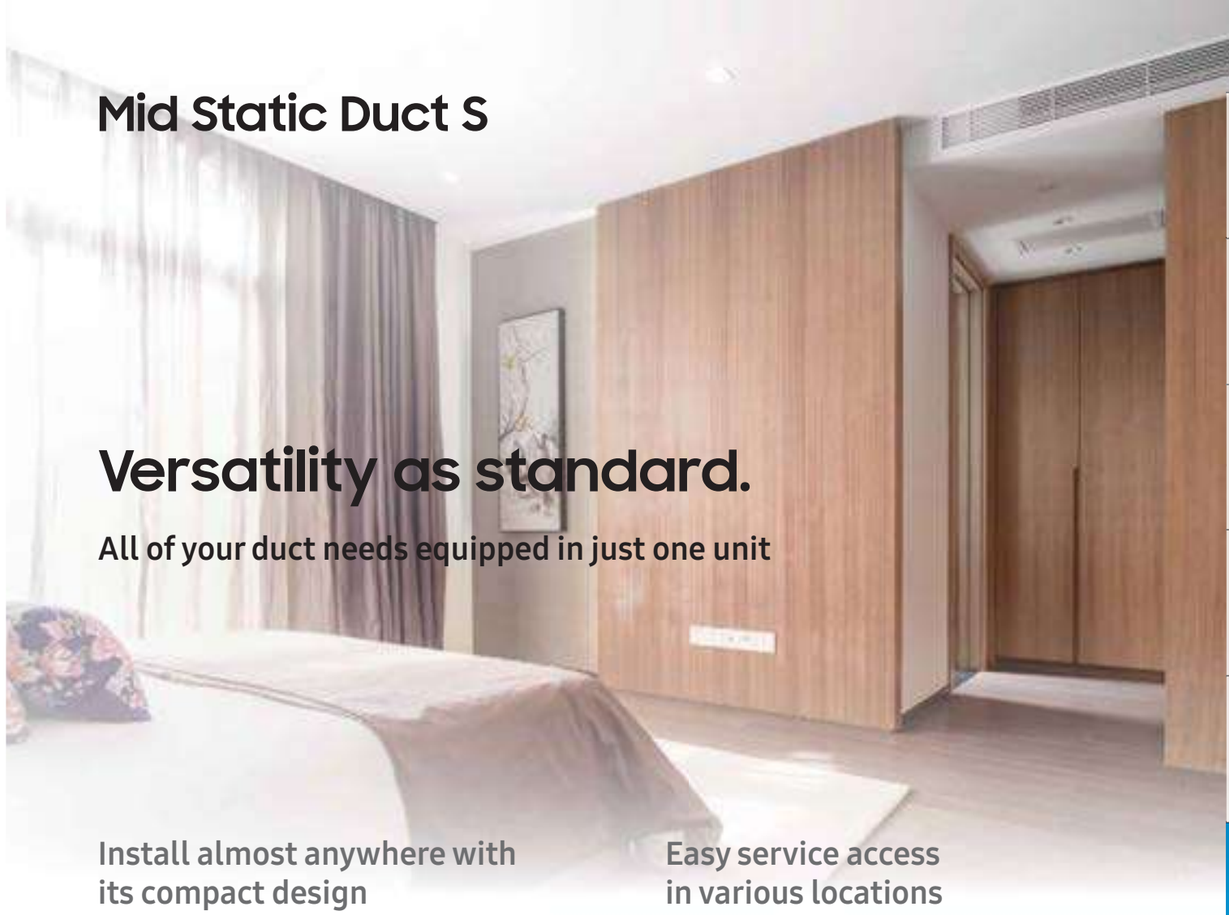
Optional Accessories (Sold Separately)

Individual Controllers

AR-EH03E MWR-WG00JN MWR-WE13N MWR-SH11N MRK-A10N

Images are for illustration purposes. Product images may be different to actual product, product size varies depending on model.

Mid Static Duct S



Versatility as standard.

All of your duct needs equipped in just one unit

Install almost anywhere with its compact design

Compact & Lightweight

The Duct S has a lightweight and compact Slim fit design that is 25% smaller and 30% lighter than previous model (conventional duct model)*.

Its streamlined construction makes it much easier to handle and hanged up onto roof trusses.

25%
Smaller Volume*

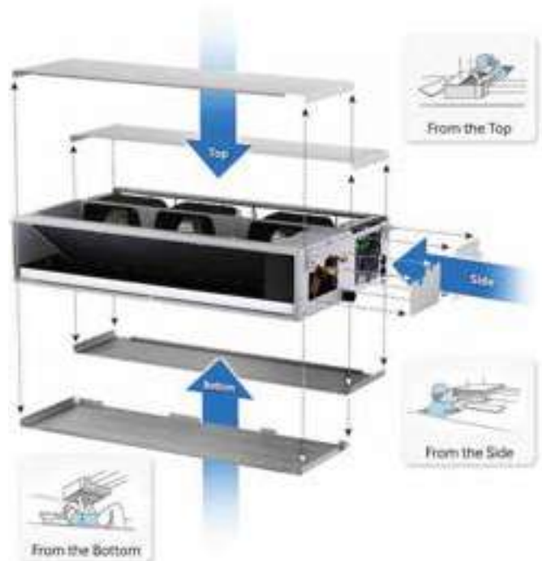
30%
Lighter Weight*

* Based on internal testing comparing Samsung overseas Duct S AM030MNHDCH/AA model with the conventional AM030JNHDCH/AA model. Size volume: Duct S = 210L vs. Conventional = 280.8L. Weight: Duct S = 40.5kg vs. Conventional = 58kg.

Easy service access in various locations

3-Way Service Access

The Duct S is designed so that its fan, motor and coil can be accessed from three locations; top, side and bottom – using an easy to remove Slide Fit cover.



Mid Static Duct S

- Powerful airflow, up to 147 Pa static range
- Low profile height, 250mm for models below 9kW
- Quiet operation
- 3-Way service access
- Drain pump included

Model			AM036ANMPKH/EU	AM045ANMPKH/EU	AM056ANMPKH/EU	AM071ANMPKH/EU	AM090ANMPKH/EU	AM112ANMPKH/EU	AM128ANMPKH/EU	AM140ANMPKH/EU
Capacity[1]	Cooling	kW	3.6	4.5	5.6	7.1	9.0	11.2	12.8	14.0
	Heating	kW	4.0	5.0	6.3	8.0	10.0	12.5	13.8	16.0
Air Flow Rate	H / M / L	l/s	208 / 158 / 125	233 / 183 / 133	267 / 225 / 150	350 / 300 / 217	450 / 367 / 267	500 / 417 / 300	600 / 500 / 383	667 / 567 / 400
Static Pressure	H / L	Pa	147 / 0	147 / 0	147 / 0	147 / 0	147 / 0	147 / 0	147 / 0	147 / 0
Sound Pressure[2]	H / M / L	dBA	30 / 27 / 24	31 / 28 / 25	32 / 29 / 25	36 / 32 / 27	37 / 33 / 29	36 / 33 / 30	37 / 34 / 31	39 / 36 / 33
Sound Power[2]	Cooling (Nominal)	dBA	53	54	57	60	61	61	62	64
Dimensions (W x H x D)		mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	1,200 x 250 x 700	1,300 x 300 x 700	1,300 x 300 x 700	1,300 x 300 x 700
Weight		kg	27.5	27.5	27.5	27.5	35	39.5	39.5	39.5
Drain Pump	Type - Internal		Built in	Built in	Built in	Built in	Built in	Built in	Built in	Built in
	Lift / Flow Rate	mm, l/h	750, 24	750, 24	750, 24	750, 24	750, 24	750, 24	750, 24	750, 24

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB/24°C WB
   - Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Optional Accessories (Sold Separately)

Individual Controllers

AR-EH03E MWR-WG00JN MWR-WE13N MWR-SH11N MRK-A10N

Images are for illustration purposes. Product images may be different to actual product, product size varies depending on model.

High Static Ducted

Performance

Creates more air, goes much further

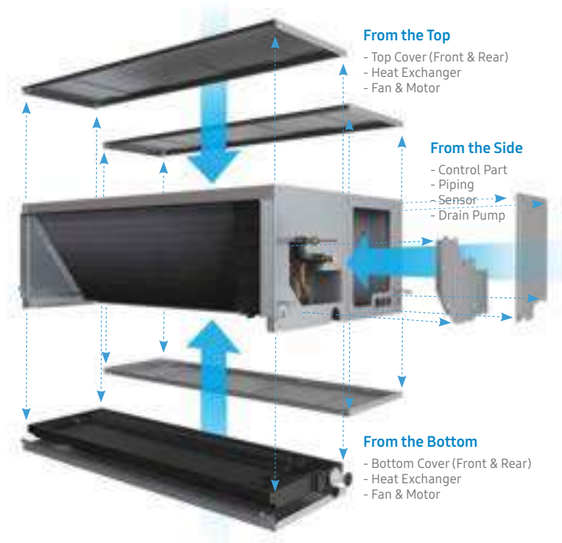
The Samsung High Static Ducted indoor unit is capable of sending a plentiful supply of cool or warm air over a long distance, so it be use for various ducted applications.

Easy service access in various locations

3-Way Service Access

Service your ducted air conditioner more easily in a wide variety of locations. Samsung high static ducted is designed so that its fan, motor and coil can be accessed from three directions* – top, side and bottom – with an easier to remove Slide Fit cover. Making it simpler to maintain wherever it's installed, can help you save time and money.

* This feature is available for AM112HNHPKH, AM128HNHPKH and AM140HNHPKH models.



Fits into more places much more easily

Lightweight and Splittable Design

Install your Samsung ducted indoor unit more easily in more locations and conditions than conventional ducted systems. Samsung ducted indoor is designed as a lightweight and splittable design*, which helps to overcome difficulties in handling during installation. The ducted indoor fan and coil section can be separated, for ease of handling, helping to reduce installation time and cost.

* This feature is only available in the AM180JNHFKH and AM224JNHFKH models.

High Static Ducted

High Static Duct S: 11 to 14kW models

- Powerful airflow, up to 196 Pa static range
- Low profile unit, height of 300mm
- Quiet operation
- 3-Way Service access
- Drain pump included

Model			AM112ANHPKH/EU	AM128ANHPKH/EU	AM140ANHPKH/EU
Capacity[1]	Cooling	kW	11.2	12.8	14.0
	Heating	kW	12.5	13.8	16.0
Air Flow Rate	H / M / L	l/s	533 / 433 / 333	617 / 500 / 367	683 / 567 / 417
Static Pressure	H / L	Pa	196 / 61 /29	196 / 61 /29	196 / 61 /29
Sound Pressure[2]	H / M / L	dBA	36 / 33 / 30	39 / 36 / 33	42 / 38 / 34
Sound Power[2]	Cooling	dBA	61	64	65
Dimensions (W x H x D)		mm	1,300 x 300 x 700	1,300 x 300 x 700	1,300 x 300 x 700
Weight		kg	44.5	44.5	44.5
Drain Pump	Type - Internal		Built in	Built in	Built in
	Lift / Flow Rate	mm, l/h	750, 24	750, 24	750, 24

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
   - Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Optional Accessories (Sold Separately)

Individual Controllers

AR-EH03E MWR-WG00JN MWR-WE13N MWR-SH11N MRK-A10N

Images are for illustration purposes. Product images may be different to actual product, product size varies depending on model.

High Static Ducted

High Static Duct: 18, 22, 28kW models

- Powerful airflow, up to 196Pa, 275Pa (for AM280) static range
- Fan and coil section can be separated for ease of installation (applicable for AM180 and AM220)

AM180 and AM224 (Splittable indoor unit)

AM280

Model			AM180JNHFKH/EU	AM224JNHFKH/EU	AM280FNHDEH/EU
Capacity[1]	Cooling	kW	18.0	22.4	28.0
	Heating	kW	20.0	25	31.5
Air Flow Rate	H / M / L	l/s	967 / 833 / 717	1200 / 1017 / 833	1,200 / 1,083 / 967
Static Pressure	H / L	Pa	196 / 72 / 49	196 / 72 / 49	275 / 147 / 49
Sound Pressure[2]	H / M / L	dBA	43 / 39 / 35	44 / 40 / 36	48 / 46 / 43
Sound Power[2]	Cooling	dBA	80	81	NA
Dimensions (W x H x D)		mm	1,350 x 450 x 910	1,350 x 450 x 910	1240 x 470 x 1040
Weight		kg	82.5	82.5	89
Drain Pump (Sold Separately)		Model	MDP-G075SP	MDP-G075SP	MDP-N047SNC1D

NOTE
Specification may be subject to change without prior notice.

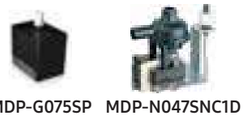
1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
   - Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Optional Accessories (Sold Separately)

Individual Controllers

AR-EH03E MWR-WG00JN MWR-WE13N MWR-SH11N MRK-A10N

Drain Pump



MDP-G075SP (External Type) MDP-N047SNC1D (Internal Type)

Images are for illustration purposes. Product images may be different to actual product, product size varies depending on model.

Conserve energy and costs with practical, high-powered operation.

Enjoy an endless supply of freshly treated air without incurring huge costs. The Samsung OAP (Outdoor Air Processing) Duct is a high-powered fresh air treatment unit with integrated ventilation. It combines fresh air processing and air conditioning in a single system, so it is extremely efficient. Air conditioning indoor units and an Outdoor Air Processing unit can be connected to the same refrigerant line, resulting in enhanced design flexibility and a significant reduction in total system costs. A BLDC motor extends the savings by ensuring considerably less energy consumption.

Efficiency

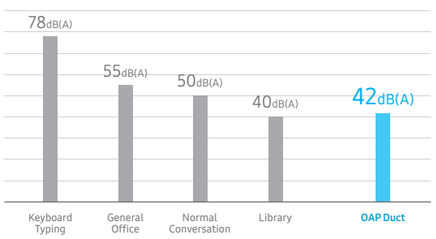
Works hard, saves more

Even though the Samsung OAP Duct delivers a powerful performance it is also designed to work extremely efficiently, using the minimum amount of energy.

More comfort with less noise

BLDC Motor

Equipped with the proficient BLDC motor, the OAP Duct operates quietly with a sound level as low as 42dB(A), so it is almost as quiet as a library. Such distraction-free operation ensures optimum comfort and calm within any environment.

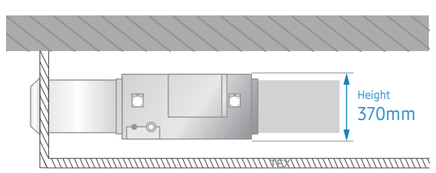


Install in more places with fewer limits

370mm* Height

A light and compact design, with a low height of 370mm, means you can conveniently install and manage it in a variety of areas with a host of installation options.

* AM140MNEP model.



Outdoor Air Processing (OAP) Duct

- Direct outside air processing units
- High capacity and high static capability
- Connectable to DVM S heat pump condensers
- Can be used in conjunction with standard fan coils on the one refrigerant circuit

- Compatible with DVM S, Mini, DVM S Water, Heat Pump only
- Combination ratio for OAP Duct only systems: 50% to 100%
- Combination ratio where system consists of combination of OAP Duct and standard fan coils: OAP duct capacity to be less than 30% of condenser capacity

Model			AM140MNEPEH/EU	AM220MNEPEH/EU	AM280MNEPEH/EU
Capacity[1]	Cooling	kW	14.0	22.4	28.0
	Heating	kW	8.9	13.9	17.4
Air Flow Rate	H / M / L	l/s	300	467	583
Static Pressure	H / L	Pa	150 / 200 / 250	180 / 230 / 290	200 / 250 / 300
Sound Pressure[2]	H / M / L	dBA	42	46	47
Sound Power[2]	Cooling	dBA	65	66	69
Dimensions (W x H x D)		mm	1210 x 370 x 656	1360 x 460 x 910	1360 x 460 x 910
Weight		kg	49	81.5	81.5
Drain Pump, Internal Type (Sold Separately)	Model		MDP-M075SGU2D	-	-
	Lift / Flow Rate	mm, l/h	750, 24	750, 24	750, 24

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature : 35°CDB, 28°CWB / Outdoor temperature : 35°CDB, 28°CWB.
   - Heating : Indoor temperature : 0°CDB, -3°CWB / Outdoor temperature: 0°CDB, -3°CWB
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Optional Accessories (sold separately)

Individual Controllers

MWR-WG00JN

MWR-WE13N

Drain Pump

MDP-M075SGU2D
(Internal Type)

Images are for illustration purposes. Product images may be different to actual product, product size varies depending on model.

WindFree™ an innovative technology that cools with "Still Air"

Stay feeling comfortably cool with WindFree™ Cooling*. It creates a 'Still Air' environment with very low air speed and minimal noise**.

23,000

Micro Air Holes*

Stay comfortably cool without feeling cold

It is designed to cool gently and quietly to minimise the unpleasant feeling of cold wind on your skin, as it disperses air through 23,000 micro air holes. Its advanced airflow structure also means it cools a wider and larger area more evenly. When operating in **Wind**Free™ Cooling it consumes approximately 77% less energy than in Fast Cooling mode***.

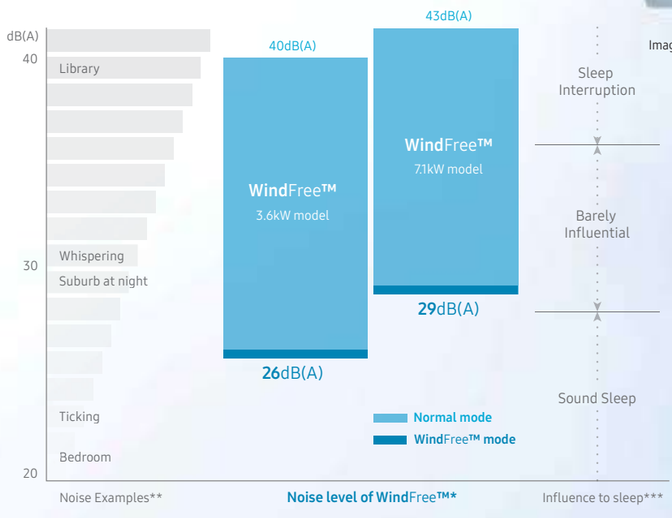
* ASHRAE (American Society of Heating, Refrigerating, and Air–Conditioning Engineers) defines "Still Air" as air currents at speeds below 0.15m/s which lacks the presence of cold drafts.
** Tested for overseas model AR12TXCAAWKNEU. **Wind**Free™ mode generates 23dB operating sound, compared to 26dB for Samsung non-**Wind**Free model.
*** Tested for overseas model AR12TVEAAWKNAP, based on power consumption at Fast Cooling mode vs. **Wind**Free™ Cooling mode.

Comfort

Less detectable noise, less disturbance

The **Wind**Free™ wall mounted indoor unit minimizes ambient noise while gently dispersing cool air across the room. In **Wind**Free™ cooling mode the indoor unit generates 26dBA of sound*, which is lower noise level when comparing to whispering**.

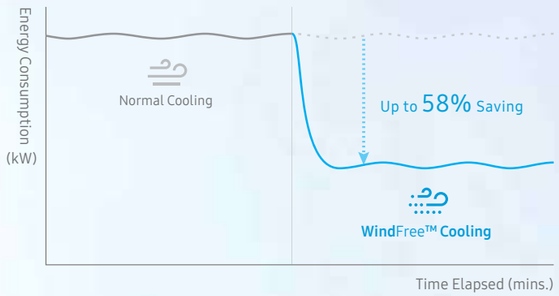
Image shown is for illustration purposes only, actual effect will vary.



* Based on internal testing using **Wind**Free wall mounted model (AM036TNADKH/EU), which is usually installed in a bedroom, and a 7.1kW model (AM071TNADKH/EU), which is usually installed for living room. May vary depending on the actual usage condition.
** Based on the Standard of National Noise Information System (Korea).

Low Energy Consumption

When operating in **Wind**Free™ mode, the outdoor unit consumes minimal operating power; can be 58%[1] less electricity consumption compared to Normal cooling model.

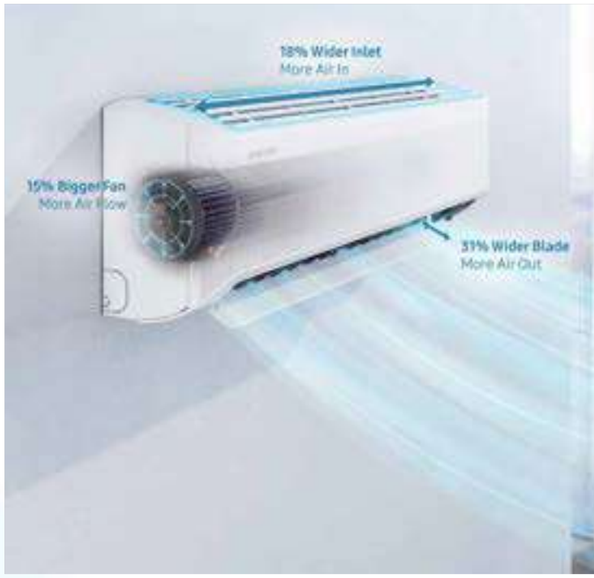


1) Based on internal testing with overseas model AM080JXVHGH/ET, AM015TNVDKH/EU, AM036TNVDKH/EU, AM045TNVDKH/EU and AM082TNVDKH/EU models, comparing the power consumption in Normal mode vs. **Wind**Free™ Cooling mode. Temperature conditions: Outdoor 35°C DB / 24°C WB, Indoor 27°C DB / 19°C WB. Results may vary depending on operating environment and individual use.

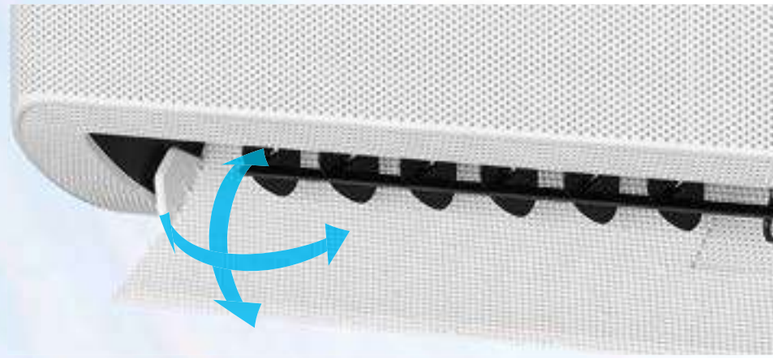
Cools fast & far with long wind

Advanced Air Flow Structure

The **Wind**Free™ wall mounted indoor unit is designed to cool the space quickly and evenly, so comfort is maintained. Its advanced air flow structure is design with a 15% larger fan unit, 18% wider air inlet and 31% wider discharge blade[1]. This allows airflow to travel farther and wider, up to a distance of 15m[2].



1) Comparing overseas model AR12TXCAAWK standard model AQ12EASER.
2) Internal testing using overseas model AR24TXFCAWKN in Fast cooling mode, distance of airflow will vary depending on installation conditions.



Distribute air to where you needed most

4-Way Swing

Samsung **Wind**Free™ wall mounted indoor unit features a 4-Way Swing functionality that allows the user to select the direction of air flow remotely, it has the auto up-down swing function, and an auto left-right swing function, designed to enable air to distributed far and wide across the room.

GEO WindFree™

(Include EEV)

Model			AM015TNVDKH/EU	AM022TNVDKH/EU	AM028TNVDKH/EU	AM036TNVDKH/EU	AM045TNVDKH/EU	AM056TNVDKH/EU	AM071TNVDKH/EU	AM082TNVDKH/EU
Capacity[1]	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.6	6.8	8.2
	Heating	kW	1.7	2.5	3.2	4.0	5.0	6.3	7.0	8.5
Air Flow Rate	H / M / L	l/s	82 / 75 / 68	95 / 83 / 75	142 / 128 / 115	172 / 152 / 138	208 / 190 / 175	262 / 230 / 200	280 / 250 / 220	292 / 260 / 230
Sound Pressure[2]	H / M / L / WF	dBA	31 / 30 / 27 / 26	34 / 32 / 30 / 27	34 / 33 / 32 / 26	40 / 36 / 34 / 26	37 / 34 / 33 / 29	40 / 37 / 34 / 29	43 / 40 / 37 / 29	46 / 45 / 43 / 30
Sound Power[3]		Cooling	dBA	51	52	56	55	58	62	64
Dimensions (W x H x D)		mm	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
Weight		kg	9	9	9.5	9.5	12	12	12	13
EEV			Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
Controls			Sold Separately	Sold Separately	Sold Separately	Sold Separately	Sold Separately	Sold Separately	Sold Separately	Sold Separately

Max

Large Capacity

(Does not have WindFree feature)

Model			AM093MNQDEH/EU
Capacity[1]	Cooling	kW	9.3
	Heating	kW	9.8
Air Flow Rate	H / M / L	l/s	383 / 333 / 283
Sound Pressure[2]	H / M / L / WF	dBA	49 / 46 / 42
Sound Power[3]		Cooling	66
Dimensions (W x H x D)		mm	1280 x 345 x 253
Weight		kg	18.5
EEV			Built-in
Controls			Sold Separately

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
   - Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Optional Accessories (Sold Separately)

Individual Controllers




AR-EH03E MWR-WG00JN MWR-WE13N MWR-SH11N

Images are for illustration purposes. Product images may be different to actual product, product size varies depending on model.

GEO WindFree™

(Exclude EEV)

Model			AM015TNADKH/EU	AM022TNADKH/EU	AM028TNADKH/EU	AM036TNADKH/EU	AM045TNADKH/EU	AM056TNADKH/EU	AM071TNADKH/EU	AM082TNADKH/EU
Capacity[1]	Cooling	kW	1.5	2.2	2.8	3.6	4.5	5.6	6.8	8.2
	Heating	kW	1.7	2.5	3.2	4.0	5.0	6.3	7.0	8.5
Air Flow Rate	H / M / L	l/s	82 / 75 / 68	95 / 83 / 75	142 / 128 / 115	172 / 152 / 138	208 / 190 / 175	262 / 230 / 200	280 / 250 / 220	292 / 260 / 230
Sound Pressure[2]	H / M / L / WF	dBA	31 / 30 / 27 / 26	34 / 32 / 30 / 27	34 / 33 / 32 / 26	40 / 36 / 34 / 26	37 / 34 / 33 / 29	40 / 37 / 34 / 29	43 / 40 / 37 / 29	46 / 45 / 43 / 30
Sound Power[3]		Cooling	50	51	52	56	55	58	62	64
Dimensions (W x H x D)		mm	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
Weight		kg	8.5	8.5	9	9	11.5	11.5	11.5	12.5
EEV			Not Included	Not Included	Not Included	Not Included	Not Included	Not Included	Not Included	Not Included
Controls			Sold Separately	Sold Separately	Sold Separately	Sold Separately	Sold Separately	Sold Separately	Sold Separately	Sold Separately

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
   - Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Optional Accessories (Sold Separately)

Individual Controllers




AR-EH03E MWR-WG00JN MWR-WE13N MWR-SH11N

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Efficiently maintains refreshing indoor air, just like breathing outside.

The Samsung ERV (Energy Recovery Ventilation) system provides fresh air from outside while minimizing energy loss for maximum efficiency. Its advanced Diamond type Heat Exchanger provides a high-efficiency heat recovery performance.

Ventilation

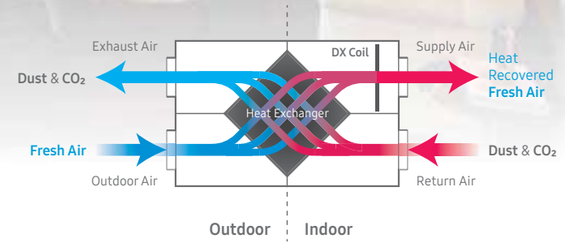
ERV

ERV Plus

Breathe fresher air from outdoors, enjoy the ideal temperature indoors.

2-Way Ventilation Design with an Optimized Heat Exchanger

It has air inlets and outlets on both sides of the unit that provide superior ventilation efficiency. Additionally, its heat exchange area transfers heat energy while preventing the discharged contaminants from re-entering indoors, recovering up to 70% of the energy* needed to cool or heat the rooms.

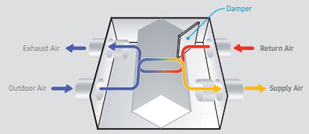


Energy Saver Mode

Designed to help reduce energy consumption by intelligently reducing the heat load on your air conditioning.

Quiet Mode

Discrete operation whenever required by creating less noise – enjoy the fresh air without being disturbed.



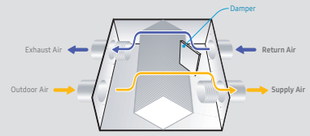
Extreme Climates
(Winter & Summer)

CO^2 Sensor

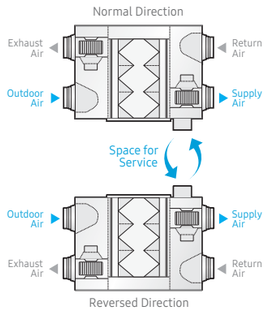
The ERV indoor unit has a CO^2 Sensor** that detects levels in the air and instantly draws more air to maintain a comfortable environment.

Auto Mode

Automatically changes its operation mode, based on the temperature difference between indoor and outdoor environment.



Mild Climates
(Spring & Fall)



Flexibly install in almost any space

Designed to allow multi-directional installation and low profile unit allows the ERV indoor unit to be installed vertically or horizontally into more spaces, helping to save time and cost on installation and maintenance.

* Based on internal testing. Results may vary depending on environmental factors and individual use.
** Optional feature (sold separately).

Energy Recovery Ventilator Systems

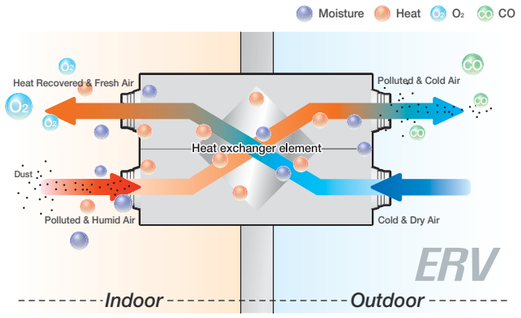
ERV

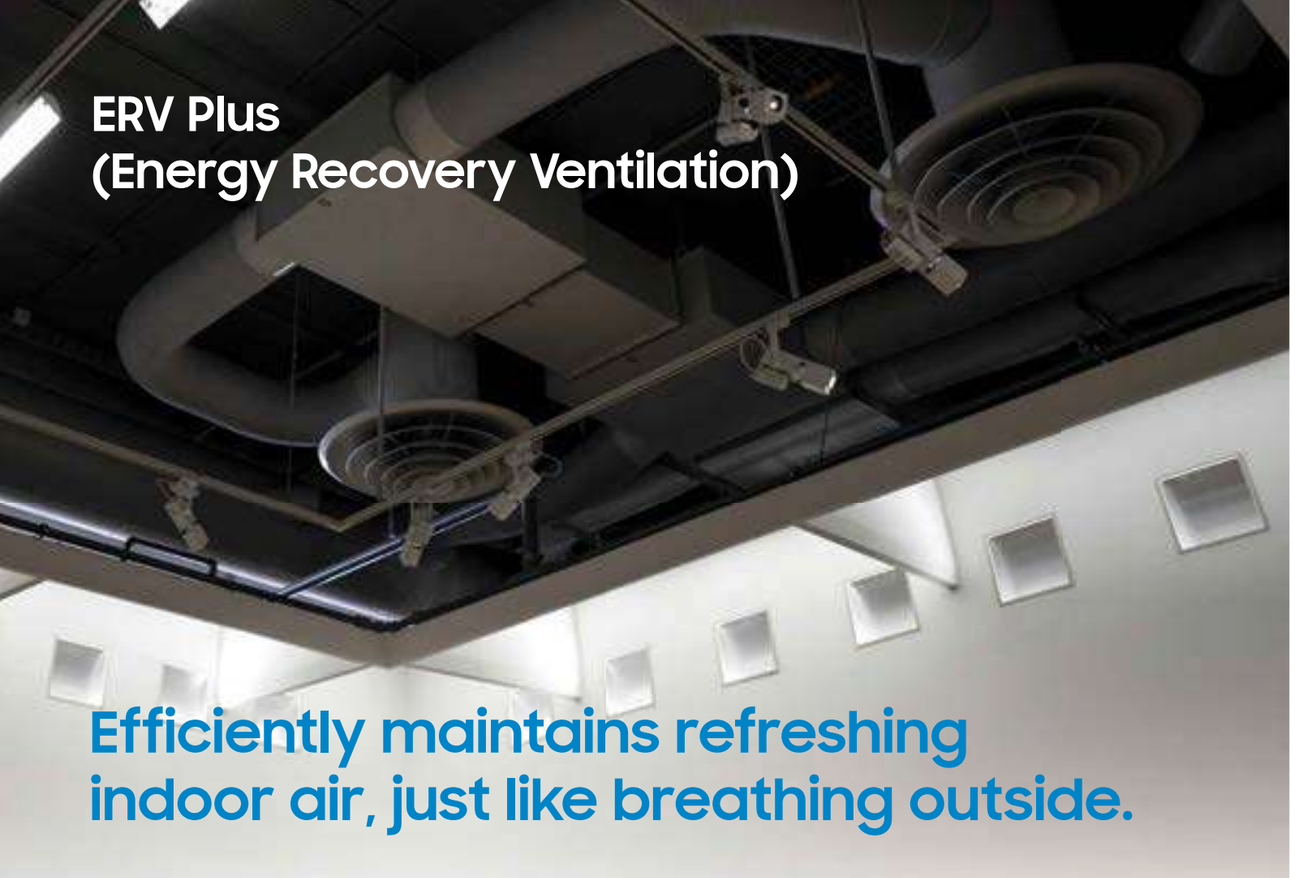
- Diamond design heat exchanger
- High efficiency heat exchange
- Compact, low profile unit
- Low operating noise
- Reversible installation possible

Model			AN026JSKLKN/EU	AN035JSKLKN/EU	AN050JSKLKN/EU	AN080JSKLKN/EU	AN100JSKLKN/EU
Power Supply		Φ, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
Power Input		W	115	115	175	330	450
Current		A	0.70	0.70	1.10	2.10	2.90
Fan	Air Flow (T / H / L)	l/s	72 / 69 / 50	97 / 97 / 71	139 / 139 / 100	222 / 222 / 155	278 / 278 / 192
	ESP (T / H / L)	Pa	100 / 65 / 55	155 / 100 / 83	165 / 100/ 85	155 / 90 / 80	155 / 90 / 75
Temperature Exchange (%)[1]	Cooling	Turbo	70	70	70	70	70
		High	70	70	70	70	70
		Low	74	74	74	74	74
	Heating	Turbo	70	70	70	70	70
		High	70	70	70	70	70
		Low	74	74	74	74	74
Enthalpy Exchange Efficiency (%)[1]	Cooling	Turbo	50	50	50	50	50
		High	50	50	50	50	50
		Low	55	55	55	55	55
	Heating	Turbo	70	70	70	70	70
		High	70	70	70	70	70
		Low	76	76	76	76	76
Sound Pressure (dBA)[2]	(T / H / L / Q)	Turbo	31 / 28 / 25 / 22	32 / 29 / 26 / 23	35 / 32 / 28 / 24	36 / 33 / 29 / 25	37 / 34 / 30 / 26
Duct Connection Size		mm	150	200	200	250	250
Net Dimensions (W x H x D)		mm	660 x 350 x 600	1012 x 270 x 1000	1012 x 270 x 1000	1220 x 340 x 1135	1220 x 340 x 1135
Net Weight		kg	28.5	42.5	42.5	67	67

NOTE
Specification may be subject to change without prior notice.

1) Temperature / Enthalpy Efficiency based on;
   - Cooling : Indoor temperature 24°C DB / 17°C WB, Outdoor temperature 35°C DB / 24°C WB.
   - Heating : Indoor temperature 22°C DB / 13.9°C WB, Outdoor temperature 2°C DB / 0.4°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.





ERV Plus (Energy Recovery Ventilation)

Efficiently maintains refreshing indoor air, just like breathing outside.

Built-in Direct Expansion (DX) coil

It features a Direct Expansion Coil that efficiently maintains the required temperature while also ventilating the room, even in extreme climates. The hot or cold air that is drawn in through the indoor unit is heated or cooled as it passes through the Direct Expansion Coil using heat recovered from the indoor air that is being expelled. So it has the same temperature as the indoor air before it enters into the room.

2-Way Ventilation Design with an Optimized Heat Exchanger

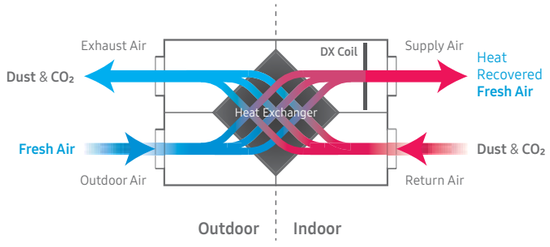
It has air inlets and outlets on both sides of the unit that provide superior ventilation efficiency. Additionally, its heat exchange area transfers heat energy while preventing the discharged contaminants from re-entering indoors, recovering up to 70% of the energy* needed to cool or heat the rooms.

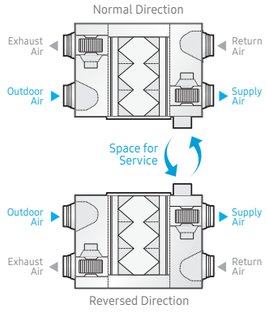
CO^2 Sensor

The ERV indoor unit has a CO^2 Sensor** that detects levels in the air and instantly draws more air to maintain a comfortable environment.

Quiet Mode

Discrete operation whenever required by creating less noise – enjoy the fresh air without being disturbed.





Flexibly install in almost any space

Designed to allow multi-directional installation and low profile unit allows the ERV Plus indoor unit to be installed vertically or horizontally into more spaces, helping to save time and cost on installation and maintenance.

* Based on internal testing. Results may vary depending on environmental factors and individual use.
** Optional feature (sold separately).

Energy Recovery Ventilator System with DX Coil

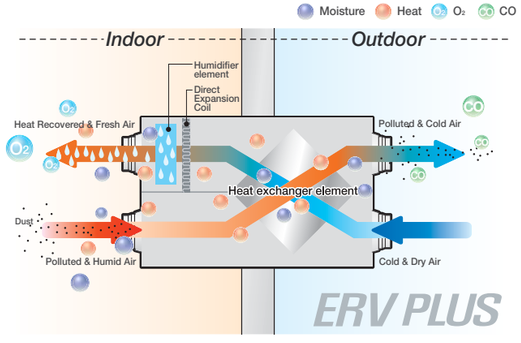
ERV Plus

- Built-in Direct expansion (DX) coil
- High efficiency heat exchange
- Compact, low profile unit
- Low operating noise
- Optional humidifier kit (sold separately)
- Optional CO^2 sensors (sold separately)

Model			AM050FNKDEH/EU	AM100FNKDEH/EU
Power Supply		Φ, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
Outside Air Processing Capacity	Cooling[1] (DX Coil / Element)	kW	5.1 (3.6 / 1.5)	10.5 (7.1 / 3.4)
	Heating (DX Coil / Element)	kW	6.5 (4.0 / 2.5)	13.2 (8.0 / 5.2)
Fan	Air Flow (T / H / L)	L/s	139 / 139 / 100	278 / 278 / 192
	ESP (T / H / L)	Pa	160 / 100 / 85	150 / 90 / 75
Temperature Exchange (%)	Cooling	Turbo	70	70
		High	70	70
		Low	74	74
	Heating	Turbo	75	75
		High	75	75
		Low	79	79
Enthalpy Exchange Efficiency (%)	Cooling	Turbo	60	62
		High	60	62
		Low	66	68
	Heating	Turbo	73	75
		High	73	75
		Low	79	81
Sound Pressure[2]	(T / H / L)	dBA	36 / 32 / 28	36 / 33 / 31
Control Method			EEV Built-in	EEV Built-in
External Dimension	Net Dimensions (W x H x D)	mm	1553 x 270 x 1000	1763 x 340 x 1135
Unit Weight	Net Weight	kg	61	90
Ambient Condition	Around Unit		0~40°C DB, 80%RH or less	0~40°C DB, 80%RH or less
	Outside Air		-15~40°C DB, 80%RH or less	-15~40°C DB, 80%RH or less
	Return Air		0~40°C DB, 80%RH or less	0~40°C DB, 80%RH or less

NOTE
Specification may be subject to change without prior notice.

1) Temperature / Enthalpy Efficiency based on;
   - Cooling : Indoor temperature 24°C DB / 17°C WB, Outdoor temperature 35°C DB / 24°C WB.
   - Heating : Indoor temperature 22°C DB / 13.9°C WB, Outdoor temperature 2°C DB / 0.4°C WB.
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.



Underceiling

Maximizes your living space, without compromising your comfort.

The Samsung Underceiling systems are ideal for large retail areas, galleries, workshops or offices and commercial premises that have limited floor and wall space. An underceiling mounted air conditioning unit provides a simple solution. As they are usually installed directly below the ceiling, they have a minimal footprint and maximize the use of the available floor space. They are powerful and can cool a large area, and as they are located high-up in the room the air is distributed farther.

Underceiling

Big Ceiling

Convertible

Cools farther, cools large areas fast

Cool a large workplace quickly and efficiently. The Samsung Big Ceiling air conditioner is a deceptively simple looking indoor ceiling unit that delivers a powerful, but efficient cooling performance. It blows cool air much farther, so it saves money space and installation time as fewer units are required.

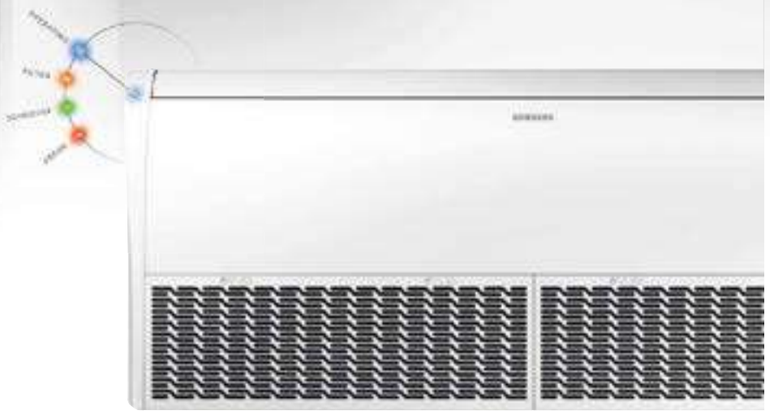
As well as blending harmoniously into most spaces, it creates a more comfortable and tranquil work environment, which can help to enhance productivity.

- High air flow volume
- Low profile unit, 235mm height
- Low operating sound
- Long distance air throw

Powerful Cooling

Samsung Big Ceiling indoor unit powerful cooling means you can cool a large area in a short time. It can blow air over a long distance, up to 15m* distance.

* Based on internal testing. Results may vary depending on environmental factors and individual use.



Simple & Unique Design

Enhance both the look and the air quality of your work space. The Big Ceiling air conditioner has a harmoniously seamless and deceptively minimalist looking design. The aerodynamically curved shape of its enlarged blade and geometric grill maximize its efficiency and performance, but also blend unobtrusively with the ceiling. And the simple and colourful display adds to the overall aesthetic, while also providing clear status information.

Enlarged Blade & Enhanced Fans

The Big Ceiling's large discharge blade, BLDC motor, and fan design enables it to work gently, efficiently, and quietly in the background to help create a comfortable and peaceful work environment.

Hygienic operation

Filter Dust Alarm & Purification System

Make sure your air is always clean and hygienic. A Filter Dust Alarm monitors the running time and air volume to precisely calculate when the filter needs cleaning.

Model			AM112JNCDKH/EU	AM140JNCDKH/EU
Capacity[1]	Cooling	kW	11.2	14.0
	Heating	kW	12.5	16.0
Air Flow Rate	H / M / L	l/s	488 / 398 / 308	607 / 513 / 433
Sound Pressure[2]	H / M / L	dBA	45 / 41 / 37	46 / 43 / 38
Sound Power[2]	Cooling (Nominal)	dBA	61	63
Dimensions (W x H x D)		mm	1,350 x 235 x 675	1,650 x 235 x 675
Weight		kg	33.5	42.5
EEV Kits			Built-in	Built-in
Drain Pump (Sold Separately)			MDP-G075SP (External Type)	MDP-G075SP (External Type)

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
   - Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Optional Accessories (Sold Separately)

Individual Controllers




AR-EH03E MWR-WG00JN MWR-WE13N MWR-SH11N

Images are for illustration purposes. Product images may be different to actual product, product size varies depending on model.

Convertible Ceiling/Console

Slim yet functional. Style that performs.

Samsung Convertible indoor unit is a slim and compact design unit that can be installed in two ways, either as an underceiling unit or as a floor console unit. The convertible unit is design to deliver powerful performance, it can distribute air for large spaces for a comfortable environment.

2-Way Installation

With our 2-Way Installation option you can choose the best solution for your specific requirements. This slim, compact and flexible unit can be deployed both under the ceiling or as a free-standing floor unit.

If space is limited and the air flow needs to come from above, the ceiling setting is ideal. The floor standing option is perfect when room is abundant. This 2-Way design is efficient, cost effective and elegant.

- Can be installed as an under ceiling or as a floor standing unit
- High air flow volume
- Low profile unit, 200mm in depth

Model			AM056FNCDEH/EU	AM071FNCDEH/EU
Capacity[1]	Cooling	kW	5.6	7.1
	Heating	kW	6.3	8.0
Air Flow ate	H / M / L	l/s	233 / 217 / 200	300 / 275 / 250
Sound Pressure[2]	H / M / L	dBA	40 / 37 / 34	44 / 42 / 40
Sound Power[2]	Cooling (Nominal)	dBA	NA	NA
Dimensions (W x H x D)		mm	1000 x 200 x 650	1000 x 200 x 650
Weight		kg	21	21
EEV Kits			Sold Separately	Sold Separately
Drain Pump (Sold Separately)			Not Available	Not Available

NOTE
Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB / 24°C WB.
   - Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Optional Accessories (Sold Separately)

Individual Controllers

AR-EH03E

MWR-WG00JN

MWR-WE13N

MWR-SH11N

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SAMSUNG

DVM S
DIGITAL VARIABLE MULTI

CONTROLS

Everything's under control.

We offer a wide range of control solutions to meet the needs of almost any project.

Wireless Controller

AR-EH03E

Wireless Controller

- On/Off, operation mode, fan speed, temperature setting
- Simple On/Off timer
- Filter cleaning alert indicator
- **Wind**Free™ function control
- Indoor unit option code setting
- Dimension 48W x 138H x 24D mm

AR-KH03E

Wireless Controller 360 Cassette

- For use with 360 Cassette indoor unit
- Jog shuttle and button to adjust airflow
- Fast and intuitive navigation
- On/Off, operation mode, fan speed, temperature setting
- Simple On/Off timer
- Filter cleaning alert indicator
- **Wind**Free™ function
- Indoor unit option code setting
- Dimension 55W x 166H x 28D mm

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Wired Controller

MWR-SH11N

LED Touch Screen Wired Controller

- Touch screen display with backlight
- Simple functionality control
- On/Off, operation mode, fan speed, temperature setting
- **Wind**Free™ function control
- Outing function; maintains room at preset conditions
- On/Off count down timer
- Button restriction function
- Group control up to 16 indoor units
- Filter cleaning alert indicator
- Built-in wireless receiver, can receive signal from wireless controller
- Built-in room temperature sensor
- Dimensions: 94W x 122H x 19.5D mm

MWR-WG00JN

UX Wired Controller

- 4.3" colour LCD display
- Simple navigational control panel
- On/Off, operation mode, fan speed, temperature setting
- Dual set point available
- Energy usage monitoring
- Cassette louver individual blade control
- **Wind**Free™ and 360 cassette function control
- Filter cleaning alert indicator
- Group control up to 16 indoor units
- Real-time clock
- After hour operational time setting
- Programmable yearly scheduling and holiday scheduling
- Built-in wireless receiver, can receive signal from wireless controller
- Button restriction function
- Built-in room temperature sensor
- Dimensions: 120W x 120H x 19D mm

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Product images may be different to actual product, product size varies depending on model.

Wired Controller

MWR-WE13N

Wired Controller

- Touch button with LCD Backlight
- On/Off, operation mode, fan speed, temperature setting
- Cassette louver individual blade control
- **Wind**Free™ and 360 cassette function control
- Filter cleaning alert indicator
- Group control up to 16 indoor units
- Real-time clock
- Energy saving control
- Weekly operation schedule setting
- Button restriction function
- Built-in room temperature sensor
- Dimensions: 120W x 124H x 19.5D mm

MWR-VH12N

ERV Wired Controller

- Controller use for ERV
- Operation mode and fan speed control
- Filter cleaning alert indicator
- Away mode
- On/Off count down timer
- Group control up to 16 ERV indoor units
- Dimensions: 75W x 122H x 16.6D mm

MCM-A00N

Wired Controller

DVM Chiller

- DVM Chiller On/Off control (module/group)
- Operation mode, water outlet temperature setting
- Optional operation setting
- Module/Group setting
- Weekly operation schedule setting
- Group control up to 16 DVM Chiller units
- Dimensions: 120W x 124H x 19.5D mm

Images are for illustration purposes.
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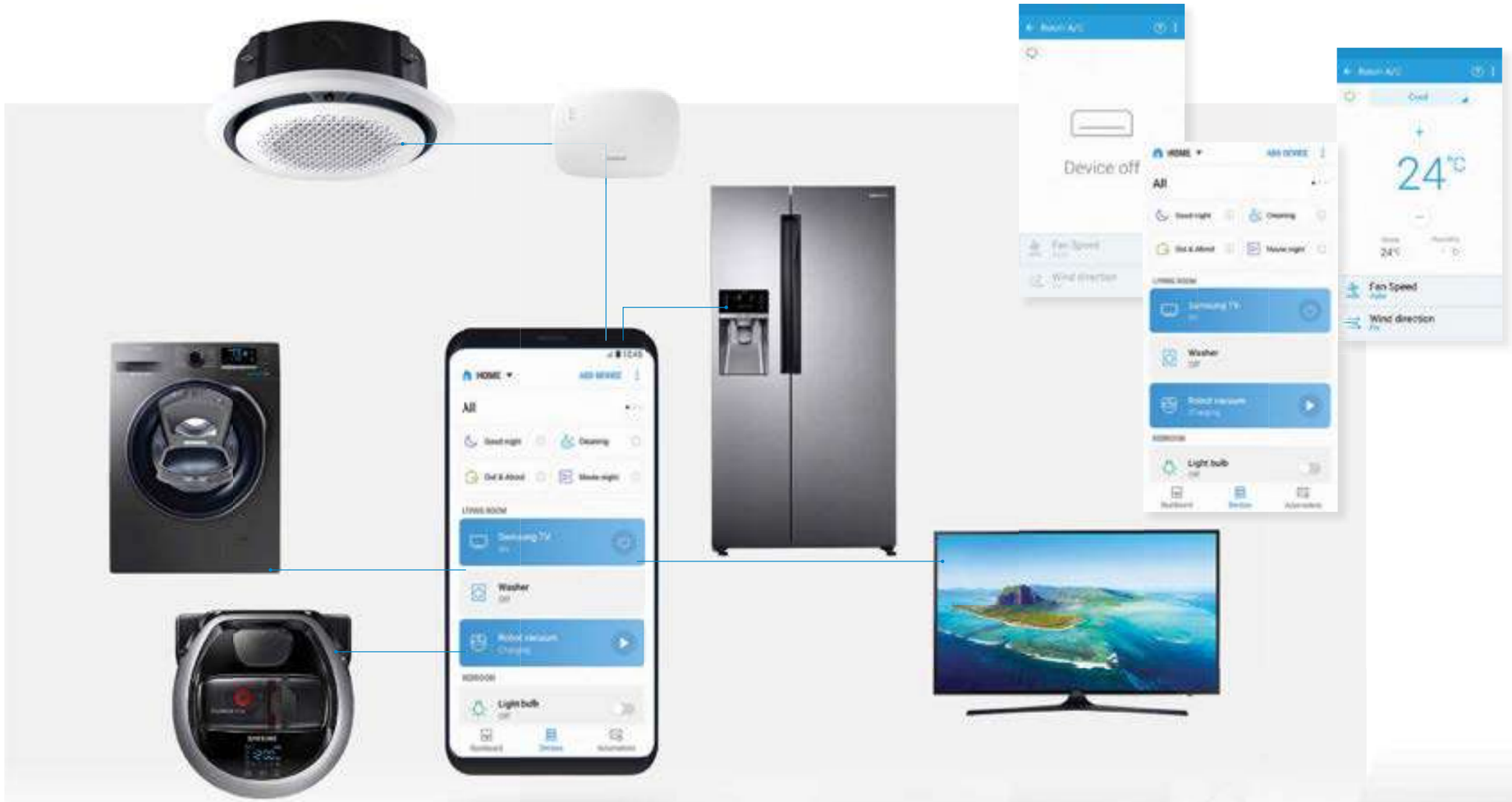
WiFi Controller

Enjoy remote connectivity with an App

Samsung SmartThings App* helps you to centrally control your Samsung TV, appliances and other compatible smart devices. You can easily check the list of connected compatible devices, name and status with the App.

* WiFi enabled control requires a wireless router. WiFi enabled control is compatible with selected Android™ and iOS Smartphones and requires Samsung SmartThings App, downloaded from Play store, Galaxy Apps and iTunes Store.

Internet connection required. Data charges may apply.
Android is a trademark of Google Inc. iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under licence. iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.
Products are sold separately. Images and screen displays are for illustrative purposes.



MIM-H04AN

WiFi Controller Kit

- Enhanced convenience, control and monitor your air conditioning remotely
- Voice Control available through a smartphone with Bixby
- Connected home with affordable units in every home using SmartThings
- Welcome home cooling and heating based on Geo-fencing
- Personalized Climate Environment
- Multi-device experience interoperable with smart appliances
- Weekly operation schedule setting
- Energy Usage Monitoring
- Individually control up to 16 indoor units
- Dimensions: 185W x 130H x 29D mm

Images are for illustration purposes.
Product images may be different to actual product, product size varies depending on model.

Central Control

MCM-A300N

Touch Central Controller

- 7 inch Touch LCD display
- Large display with backlight
- On/Off, operation mode, fan speed, temperature setting
- Energy usage monitoring
- Upper and lower temperature limit setting
- Programmable weekly scheduling and holiday scheduling
- Local control and function lock permission setting
- Real-time clock
- Control up to 128 indoor units individually
- Group/zone control, control up to 12 zones
- Digital input terminal for fire emergency shutdown
- Monitor individual indoor unit status and fault history
- Dimensions: 205W x 163H x 38D mm

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Product images may be different to actual product, product size varies depending on model.

Management Control

MIM-D01AN

Data Management Server (DMS2.5)

- Built-in web server for PC-independent management and remote access control
- Individual/Group control of up to 256 indoor units, AHU and ERV, or 80 complete systems
- Multiple upper-layer control access (S-NET 3, Web-client)
- Power proportioning reporting when use in conjunction with Pulse Input Module (MIM-B16N)
- Emergency stop function with simple contact interface
- Programmable yearly scheduling and holiday scheduling
- User editable control logic to tailor system operation to help meet your application requirements
- Accessible level management
- Dynamic security management
- Operation & error history management
- Digital input and output terminals for external device interlock
- Data storage in non-volatile memory and SD memory
- Dimensions: 240W x 255H x 65D mm

MST-P3P

S-NET3

S-NET 3 is a sophisticated network management program that controls and monitors a complete air conditioning network system. The S-NET Series provides flexible and complete control for a variety of applications.

The S-NET 3 management program features the following:

- Fully integrated PC management software
- Power distribution management and consumption reporting
- For projects using multiple DMS controllers, connect up to 16 DMS control systems using Ethernet
- Control and monitor up to 4096 indoor units

Images are for illustration purposes.
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Management Control Gateway

MIM-B16N

Pulse Interface Module (PIM)

Power meter (watt-hour) interface module are use in conjunction with DMS management control system, or with BACnet®/Lonworks® gateway, for a site building management control systems, to display power consumption of connected air conditioning systems.

- Up to 8 compatible watt hour meters connectable per PIM
- Interface with pulse-type electricity meters for electricity billing system
- Pulse coefficient setting (1 watt/pulse - 1000 watt/pulse)
- Pulse width setting (20 ms - 1000 ms)
- Current time setting and display
- Configuration information display on LCD
- Error display (communication, out-of-range, pulse width, etc.)
- Dimension: 240W x 255H x 65D mm

BACnet® Gateway

MIM-B17BN

- Gateway to interface to BACnet® building management system
- Up to 256 indoor units connectable
- Available points has DMS controller functionality
- Dimension: 240W x 255H x 65D mm

LonWorks® Gateway

MIM-B18BN

- Gateway to interface to LonWorks® building management system
- Up to 128 indoor units connectable
- Dimension: 240W x 255H x 65D mm

1) BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
2) LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries

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Module, Application Kit, Gateway

MODBUS Interface Module

MIM-B19N

- Interface module to connect to Modbus protocol BMS/control systems
- Modbus RS485 (2 wires, max. 1,000m)
- Connects 1 outdoor system
- Connects up to 48 indoor units
- Dimension: 50W x 80H mm

MIM-B14

External Contact Interface Card

External Contact Control module to control an indoor unit (On/Off) via 0V dry contact.

- Direct indoor unit control by external contact signal
- Window-synchronised indoor unit control
- Emergency control with simple contact input
- Indoor unit operation/error state output through relay contacts
- Dimensions: 50W x 80H x 35D mm

MIM-B14A

Refrigerant Leak Detector (RLD) Interface Card

To send a refrigerant leakage detection signal from a master DDC to an outdoor unit.

- The RLD Interface Module is an interface module that has 2 outputs and 1 input
- To send a outdoor pump down operation status signal from an outdoor unit to a master DDC
- Dimensions: 50W x 80H x 35D mm

MIM-N10

ERV Interface Module

- Communication interface module between ERV and controller
- Connect 1 ERV interface module to max. 16 ERVs
- Individual control – max. 16 ERVs
- Group control – max. 16 groups
- Supported communication type
  - Conventional communication ERV ←→ New communication upper level controller
  - New communication ERV ←→ Conventional communication upper level controller
  - New communication ERV ←→ New communication upper level controller
- Dimensions: 50W x 80H mm

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Product images may be different to actual product, product size varies depending on model.

Module, Application Kit, Gateway

MIM-F10N

FCU Interface Module

- Communication interface module between FCU (indoor unit or kit by Samsung) and Samsung control layer (R1/R2: such as DMS2.5)
- Connect 1 FCU interface module to max. 16 FCUs (indoor unit or Kit by Samsung)
- Dimensions: 50W x 80H mm

MIM-N01

Interface Module

Provides a communication interface between outdoor units and the upper level controller, which uses a different type of communication.

- Connect 1 interface module to 1 outdoor unit
- Individual control - Maximum 48 indoor units
- Detecting communication type automatically: Judge the communication type of the upper level controller according to communication type of the outdoor unit
- Supported communication type
  - Conventional communication outdoor unit ←→ New communication upper level controller
  - New communication outdoor unit ←→ Conventional communication upper level controller
- Dimensions: 50W x 80H mm

MCM-C210N

MTFC
(Multi Tenant Function Controller)

- The Multi Tenant Function Controller is an auxiliary power supply device that allows the indoor unit to turn off (close EEV) normally and maintain communication when the main power supply is cut
- It is used in sites such as a hotel where individual power is supplied to the indoor unit
- Dimensions: 75W x 110H mm

Images are for illustration purposes.
Product images may be different to actual product, product size varies depending on model.

MCM-C200

Operation Mode Selection Switch

- Outdoor unit operation mode selection (Cooling, Heating or Auto)
- Mixed operation mode protection
- Dimensions: 70W x 120H x 21D mm

MIM-A00N

WindFree™ RAC communication PBA

- A communication PBA between the **Wind**Free™ RAC indoor unit and the new wired remote controller
- Connection to new wired remote controller
- Dimensions: 58.5W x 40H mm

MIM-R10N

WindFree™ RAC Communication PBA

- A communication PBA between the RAC outdoor unit and an upper layer controller, such as DMS2.5, BACnet® G/W, Lonworks® G/W, and Touch Centralized Controller
- Dimensions: 60.5W x 48.5H mm

MRK-A10N

Receiver Kit

- Concealed wireless signal receiver
- Filter replacement sign
- Fan operation display
- Operation Timer setting display
- Operation On/Off button
- Operation On display LED (blue)
- Defrost operation display LED (red)
- Dimensions: 80W x 130H x 28D mm

Images are for illustration purposes.
Product images may be different to actual product, product size varies depending on model.

Accessories Line-Up

Optional Equipment/Kit

Classification	Image	Model	Application
AHU Kit		MXD-K025AN	7.0 ~ 8.75kW AHU
		MXD-K050AN	14.0 ~ 17.5kW AHU
		MXD-K075AN	21.0 ~ 26.25kW AHU
		MXD-K100AN	28.0 ~ 35.0kW AHU
		MXD-A64K100E	AHU EEV Kit (10HP)
		MCM-D201N	Control Kit (PBA, 10 ~ 40HP)
Humidifier		MVO-VA050100	500CMH (ERV Plus)
		MVO-VA100100	1,000CMH (ERV Plus)
Motion Detect Sensor		MCR-SMC	**Wind**Free™ 4Way
		MCR-SMD	**Wind**Free™ 4Way 600x600

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Accessories Line-Up

Optional Equipment/Kit

Classification	Image	Model	Application
Heat Recovery Changer		MCU-R4NEK0N	
		MCU-S6NEK3N	
MCU		MCU-S6NEK2N	6 Ports, Max. 61.6kW (~ 16kW / 1 Port)
		MCU-S4NEK3N	4 Ports, Max. 61.6kW (~ 16kW / 1 Port)
		MCU-S2NEK2N	2 Ports, Max. 32.0kW (~ 16kW / 1 Port)
		MCU-S1NEK1N	1 Port, Max. 61.6kW (~ 16kW / 1 Port)
EEV Kit		MXD-E24K132A	2 Indoor Units
		MXD-E24K200A	
		MXD-E32K200A	
		MXD-E24K232A	3 Indoor Units
		MXD-E24K300A	
		MXD-E32K224A	
		MXD-E32K300A	
		MEV-E24SA	1 Indoor Unit
		MEV-E32SA	
PDM (Pressure Drop Modulation) Kit		MXD-A38K2A	8 ~ 12HP
		MXD-A12K2A	14 ~ 16HP
		MXD-A58K2A	18 ~ 26HP
Distribution Header		MXJ-HA2512M	45.0kW and below (for 4 Rooms)
		MXJ-HA3115M	70.3kW and below (for 8 Rooms)
		MXJ-HA3819M	Over 70.3kW ~ 135.2kW and below (for 8 Rooms)

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Panel for cassette type indoor units

Classification	Image	Model	Application
360 Cassette Front Panel		PC4NUDMAN	NASA, Square
		PC4NBDMAN	NASA, Square - Black
		PC4NUNMAN	NASA, Circle (Exposed installation)
		PC4NBNMAN	NASA, Circle (Exposed installation) - Black
WindFree™ **4-Way** Front Panel		PC4NUFMAN	**Wind**Free™ 4-Way
WindFree™ **4-Way 600x600** Front Panel		PC4SUFMAN	**Wind**Free™ 4-Way 600x600
WindFree™ **1-Way** Front Panel		PC1MWFMAN PC1NWFMAN PC1BWFMAN	**Wind**Free™ 1-Way

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Accessories Line-Up

Joints

Classification	Image	Model	Application
Y-Joint		MXJ-YA1509M	15.0kW and below
		MXJ-YA2512M	Over 15.0kW ~ 40.0kW and below
		MXJ-YA2812M	Over 40.0kW ~ 45.0kW and below
		MXJ-YA2815M	Over 45.0kW ~ 70.3kW and below
		MXJ-YA3419M	Over 70.3kW ~ 98.4kW and below
		MXJ-YA4119M	Over 98.4kW ~ 135.2kW and below
		MXJ-YA4422M	Over 135.2kW
Y-Joint (HR only)		MXJ-YA1500M	22.4kW and below
		MXJ-YA2500M	Over 22.4kW ~ 70.3kW and below
		MXJ-YA3100M	Over 70.3kW ~ 135.2kW and below
		MXJ-YA3800M	Over 135.2kW
Y-Joint (Outdoor Unit)		MXJ-TA3419M	135.2kW and below
		MXJ-TA3819M	
		MXJ-TA4122M	140.2kW and below
		MXJ-TA4422M	
Y-Joint (HR Outdoor Unit)		MXJ-TA3100M	135.2kW and below
		MXJ-TA4122M	140.2kW and over

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