SAMSUNG

Distributed By:

* Specifications are subject to change without prior notice for further improvement. Due to printing considerations, the actual colors may vary slightly from those shown

Samsung Electronics Co. Ltd.
Head Office(Suwon Korea)
129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-Do 16677, Korea

Samsung Air Conditioning Solutions (DVM System)

Samsung Air Conditioning Solutions (DVM System)

Create ideal air conditions in any environment with complete heating and cooling solutions

SAMSUNG

Samsung

Moving with, and ahead of, our customers

Overseas Industry Leaders – Global Network

Samsung has strong business foundations in more than 75 countries. Through the diverse views and talents of its employees, Samsung can understand and adapt to markets, wherever they operate.

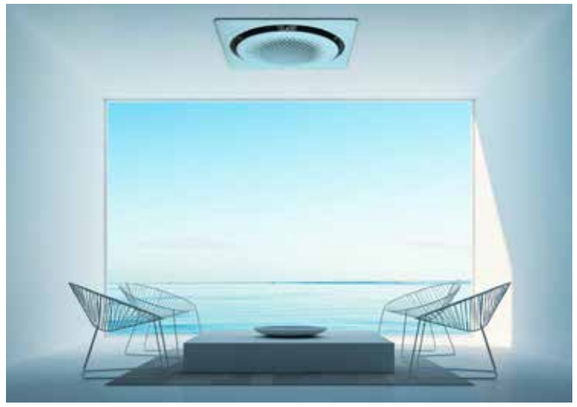
Samsung Air Conditioning

Samsung has been manufacturing air conditioning systems for almost 40 years, utilising the latest technology and striving to produce the most innovative, efficient and reliable systems on the market today.

At Samsung Electronics, we're committed to helping our customers, partners and employees discover new experiences and possibilities. Across all our businesses, we're inspired by the changing 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.

This guide has been produced to assist in the selection of the most suitable equipment for today's commercial projects, from Samsung's comprehensive portfolio of 2 and 3-pipe air and water cooled systems, our extensive range of indoor unit designs and variety of control options.

Samsung air conditioning has been specified and installed in a wide range of projects and applications in conjunction with other products from the Samsung Electronics product portfolio, including hotel TVs, display screens, CCTV, security systems, wireless networks, mobile devices and Smart Home.



Samsung System Air Conditioner

Global reference sites

Location: **China (Tianjin)**
Project: **International Airport**

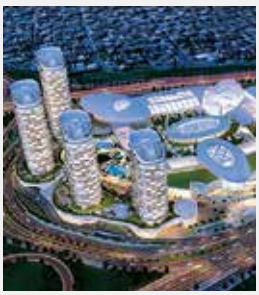
Location: **India**
Project: **Fathe Prakash Palace**

Location: **China (Tianjin)**
Project: **Apartment, Office**

Location: **Korea**
Project: **Soccer Stadium**

Location: **Saudi Arabia**
Project: **Medical Clinic**

Location: **Qatar**
Project: **Office Building**



Location: **Turkey (Istanbul)**
Project: **Mall of Istanbul**

Location: **Austria**
Project: **City Hall Traiskirchen**

Location: **China (Nanjing)**
Project: **Office**

Location: **China (Qingdao)**
Project: **Office**

Location: **China (Beijing)**
Project: **Industry & Technology Park**

Location: **Vietnam (Hanoi)**
Project: **Viet Han Tower**

Location: **Korea (Songdo)**
Project: **World Mark**

Location: **UAE**
Project: **Residential Building**

Location: **Australia (Sydney)**
Project: **St. Joseph School**

Location: **UK (Edinburgh)**
Project: **Sheraton Hotel**

Location: **Kenya (Mombasa)**
Project: **English Point Marina**

Samsung System Air Conditioner

Middle East North Africa reference site

Location: **Jordan (Dead Sea)**
Project: **The Hilton Dead Sea Resort**

Location: **Oman (Muscat)**
Project: **SBG plaza**

Location: **UAE (Braka)**
Project: **Braka Nuclear Power Plant**

Location: **Iran (Tehran)**
Project: **Commercial Centre of Elahiye**

Location: **Turkey (Antalya)**
Project: **Sirius Town**

Location: **Turkey (Antalya)**
Project: **Titanic Belek Resort**

Location: **Qatar (Doha)**
Project: **ABM Miliraty**

Location: **UAE (Dubai)**
Project: **Mohammad Bin Rashid City**

Location: **UAE (Al-Ain)**
Project: **Living Legend 500 Villa**

Location: **Iraq (Erbil)**
Project: **Empire World**

Location: **Lebanon (Beirut)**
Project: **Titanium Tower**

Location: **Turkey (İstanbul)**
Project: **Sinpaş Ottomare**

Samsung Air Conditioning

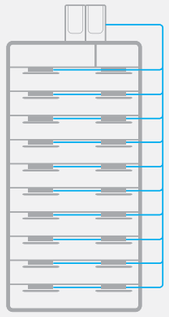
Contents

Product Categories

VRF

DVM S Commercial

With its wide range of capacities and advanced technology, the DVM system is the perfect cooling and heating solution for any type of space from high-rise buildings to small commercial buildings.



DVM S

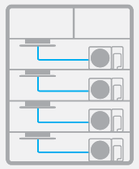
DVM S Water

DVM S Eco

Single split

CAC Light Commercial*

This one-to-one system that links outdoor and indoor units is the most suitable air solution for individual businesses to manage their own air-conditioning system in small and medium- sized commercial buildings.



Commercial Air Conditioner

*Contact Samsung representative for more details

Product Types

DVM S Desert

DVM S Eco Desert

DVM S Water

DVM S Chiller

Heat Pump | Heat Recovery | Modular Chiller

360 Cassette

4 Way Cassette Wind-free

4 Way Cassette (600x600) Wind-free

1 Way Cassette Wind-free

2 Way Cassette

Cassette Type

HSP Duct

MSP Duct

LSP Duct

OAP Duct

Duct Type

Neo Forte, Neo Forte-E

AR5000, AR5000-E

Boracay

Console

Wall Mounted Type | Console Type

Ceiling

Ceiling(Large)

Concealed

Packaged

Ceiling Type | Floor Standing Type

ERV Plus

ERV

Ventilation Unit

DVM S
Product overview

Outdoor Units

Model		DVMS Desert		DVMS Eco Desert	DVM S Water
		Higher Efficiency	Standard		
HP	4			•	
	5			•	
	6			•	
	8	•	•	•	•
	10	•	•	•	•
	12	•	•		•
	14	•	•		
	16	•	•		
	18	•			
	20	•			•
	22	•			
	24	•			

Indoor Units

Cassette

Model		360 Cassette	4 Way Wind-free	4 Way(600x600) Wind-free	1 Way Wind-free	2 Way
Capacity (kW)	1.5			•		
	1.7				•	
	2.2			•	•	
	2.8			•	•	
	3.6			•	•	
	4.5	•	•	•		
	5.6	•	•	•	•	•
	6.0			•		
	7.1	•	•		•	•
	9.0	•	•			
	11.2	•	•			
	12.8	•	•			
	14.0	•	•			

Duct

Model		HSP	MSP	LSP (LSP Duct)	OAP (Outdoor Air Processing duct)
Capacity (kW)	2.2		•	•	
	2.8		•	•	
	3.6		•	•	
	4.5		•	•	
	5.6		•	•	
	7.1		•	•	
	9.0		•	•	
	11.2	•	•	•	
	12.8	•	•	•	
	14.0	•	•	•	•
	16.0		•		
	18.0	•			
	20.0				
	22.0	•			•
	28.0	•			•

* Concerning exact capacity for each model above, please refer to the specification sheet in detail.

DVM S
Product overview

Wall Mounted

Model		AR5000 EEV(X)	AR5000 EEV(O)	Boracay EEV(X)	Boracay EEV(O)
	2.2	•	•	•	•
	2.8	•	•	•	•
	3.6	•	•	•	•
	4.5	•	•	•	•
	5.6	•	•	•	•
	7.1	•	•	•	•
	8.2	•	•		
	9.3				•

Console & Ceiling

Model		Console	Ceiling	
Capacity (kW)	2.2	•		
	2.8	•		
	3.6	•		
	4.5	•		
	5.6	•	(•)*	
	7.1		(•)*	
	11.2			•
	14.0			•

* It can be available installation of both side. (under ceiling or floor standing)

Floor Standing

Model		Concealed	Packaged	
Capacity (kW)	3.6	•		
	5.6	•		
	7.1	•		
	14.0		•	
	28.0			•

Ventilation

Model		ERV Plus	ERV
Capacity (CMH)	260		•
	350		•
	500	•	•
	800		•
	1000	•	•

DVM Chiller

Model			Embedded Water Pump
Capacity (RT)	12.0	•	•
	16.0	•	•
	18.0	•	•

* Concerning exact capacity for each model above, please refer to the specification sheet in detail.

DVM S Desert

Comfort with solutions designed for superior efficiency and manageability

Variable Refrigerant Flow (VRF) systems are a smart solution for commercial and large residential buildings that demand higher efficiency, individualised control and installation flexibility. Advanced heat recovery combines heating, cooling and ventilation processes for increased energy efficiency and lower operating costs. In addition, VRF technology supports zone control, enabling users to adjust individual climate settings to suit their personal comfort preferences. And with copper piping that's typically longer than traditional direct expansion (DX) systems, VRF units increase design flexibility for more creative installations.

Samsung's VRF system air conditioners offer instant temperature control, user-friendly installation and advanced functionality, along with smart power usage. Our flagship VRF-based Samsung DVM S is a highly innovative system that adopts the new third-generation Samsung Scroll Compressor (SSC) technology. With its Dual Digital Inverter, DVM S provides world-class energy efficiency and the most powerful cooling and heating performance available on the market. This air conditioning system is ideal for various environments, including large commercial and residential buildings.

The Samsung DVM S system air conditioner delivers optimal comfort, efficiency and performance with features such as:

- **The world's largest capacity.** Experience the ultimate heating and cooling capacity while optimising space with efficient design.
- **Improved heating performance.** Enhance airflow with smarter, more efficient heating technology in cold weather environments.
- **High energy efficiency.** Decrease energy consumption and costs with a dual inverter system featuring simultaneous compressor operation for higher performance.
- **Flexible installation.** Ease installation and reduce labour costs with a lightweight design, extended piping length, and elevation support.
- **Year-round climate control.** Enjoy a comfortable environment even in extreme climates with advanced temperature control and rapid cooling and heating.
- **Smart management.** Monitor system performance effectively with convenient web-based data access and management from anywhere.
- **Reliable performance and durability.** Ensure dependable cooling and heating for all conditions with weather-proofing and corrosion resistance.

DVM S Desert

Improved heating performance and high energy efficiency

Enhance temperature control with more intelligent and efficient heating operation

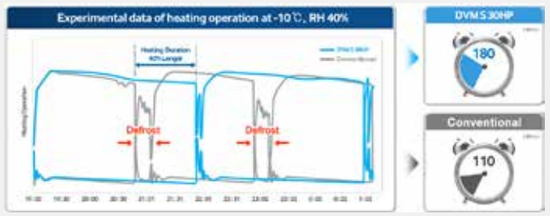
With three improved key features, DVM S ensures fresh airflow for increased comfort. Enhanced flash injection delivers reliable heating at lower temperatures, while more intelligent defrost and snow detection offer more precise operation, saving valuable energy and expenses.

Improved flash injection

Featuring advanced refrigerant control technology, Samsung's flash injection extends heating operation range at -25°C by increasing ref. flow by 32%. And at even lower temperatures, it continues to perform, delivering reliable comfort in frigid conditions.

Intelligent defrost

DVM S features new frost detection that provides continuous heating time and improved efficiency. The system considers not only conventional factors but also air resistance to intelligently judge the defrost operation. Precise defrost judgment avoids unnecessary defrosting thanks to the partial load and lower ambient temperature operation. Ultimately, users can enjoy less energy waste and more continuous heating time.

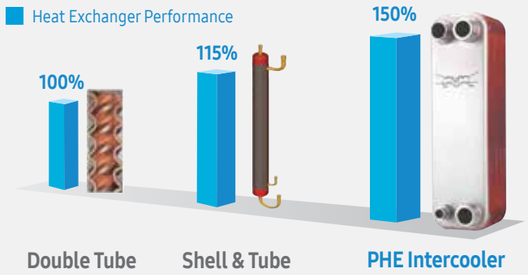


Maintain optimal comfort and control with energy- and cost-efficient technologies

Samsung DVM S features several smart technologies that combine to deliver world-class energy efficiency and economy.

Reduce maintenance and energy costs with intercoolers

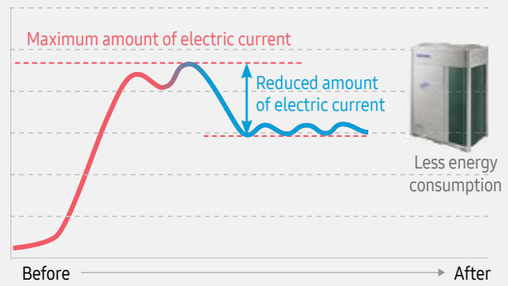
DVM S features a PHE type intercooler, which improves cooling and heating efficiency by 30 percent compared to Shell & Tube and Double Tube type intercoolers. The higher heat exchange rate means optimal distribution, lowering maintenance and energy costs.



Limit power consumption with peak-demand control

To help businesses manage better power consumption and related costs better, 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.

Before & after peak power-demand control



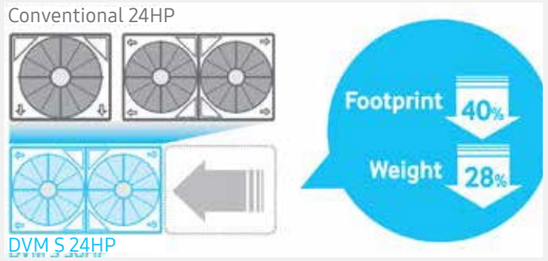
DVM S Desert
Flexible installation

Reduce expenses with installation designed to be easy and flexible

The simplified yet powerful design of the DVM S unit eases the installation process. Non-polar communication between indoor and outdoor units promotes easier and safer wiring work, because the outdoor unit protects itself if the communication cable is mistakenly connected to a power terminal.

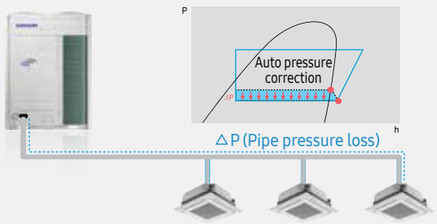
Lower setup costs with a smaller footprint and lighter weight

At 24 horsepower (HP), the large-unit capacity of DVM S facilitates economical installation with a smaller footprint and lighter weight—an ideal solution for larger buildings.



Optimised refrigerant distribution control

DVM S compensates for the long piping distance between outdoor units and indoor units by providing balanced refrigerant distribution. The individual indoor units perform capacity connection control and automatic refrigerant balancing to ensure balanced performance between the units.



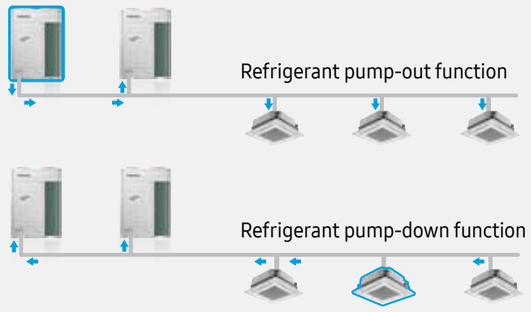
Flexible installation with extended pipe length and elevation

DVM S provides extended piping length of up to 220m (721.79 ft.) and installation height of up to 110m (360.89 ft.), offering businesses more installation options. The piping distance is far between outdoor and indoor units, so individual indoor units perform capacity connection control and automatic refrigerant equalisation for more balanced performance between units

Total piping length - 1000m

Refrigerant pump-down and pump-out

DVM S provides refrigerant pump-down and pump-out functionality to simplify unit replacement, and ease additional installations and maintenance. When the outdoor unit requires maintenance, the refrigerant can recover into outdoor units and pipes. The refrigerant can also recover into outdoor units when moving indoor units or maintaining pipes.



DVM S Desert
Year-round climate control

Make residents feel at home with an advanced operating system and flexible temperature control

Samsung DVM S is the best solution for residential buildings requiring a flexible, efficient and reliable air conditioning system. Smart Discharge Temperature Control enables operators to control the temperature without changing the outdoor unit's setting. Instead, each duct has an indoor discharge temperature control function to provide year-round comfort, whether in cooling or heating operation mode.

Lessen disruptions with 12-hour quiet operation

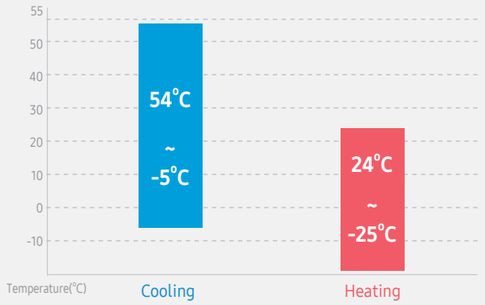
DVM S outdoor fans include an operation control system that drastically reduces noise levels. Quiet operation continues for 12 hours, so residents can relax and rest peacefully with less distraction during the night.

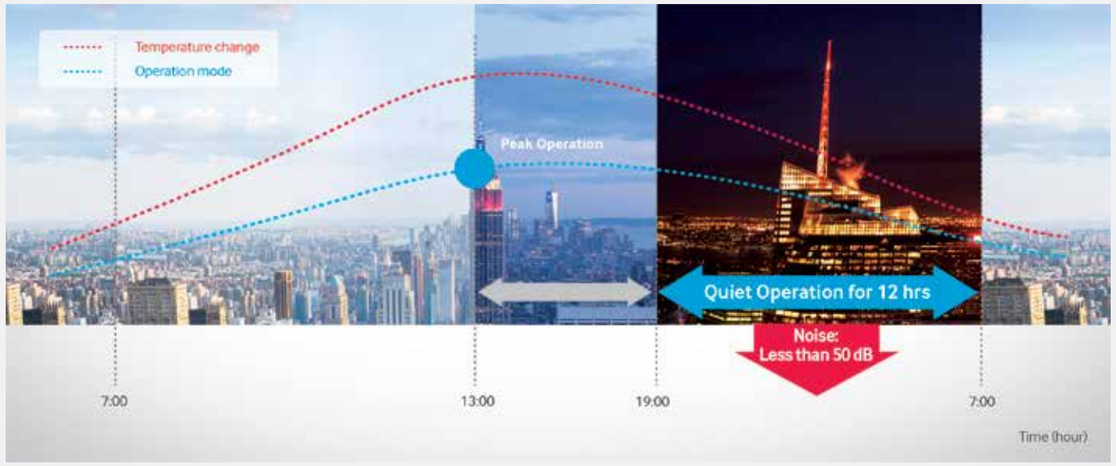
Minimise nighttime noise

A new Night Silent Control feature includes a timer and external contact interface module, which allow users to set the time they want to minimise noise. With the upgraded Night Silent Control feature, users can manage the noise control function whenever they want, using the external controller.

Weather a wide range of outdoor temperatures comfortably

No matter how extreme the temperature gets, the high-performing DVM S can handle the conditions—without the need for an additional unit. Featuring a wide temperature allowance, it can cool in heat of up to 54°C and provide warmth in the freezing cold of -25°C to ensure a constant and comfortable home environment.





DVM S Desert

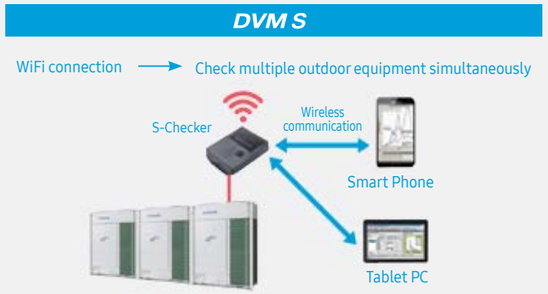
Smart management

Monitor and resolve system issues remotely with a smart management system

DVM S features a smart, web-based management system for ultimate convenience. The advanced system facilitates self-diagnosis, auto trial operations and mobile data transmissions, which users can easily access and monitor via the web-based tool.

System oversight from anywhere

With WiFi S-Checker, users can access the system via their smartphones or tablet PCs to monitor operation status or data whenever and wherever. With self-diagnosis mode, DVM S automatically monitors its operation status and displays an error code in response to signs of abnormal operation. Users can then identify and address the issue promptly.



Easy access

Thanks to the small opening on the outdoor unit, checking the outdoor status and setting option is easy, because users don't need to remove the entire front cover.

Automatic data backup

If a malfunction occurs, DVM S automatically backs up the last 30 minutes of operation data to ease the repair and recovery process.

Control your cooling anywhere

An optional WiFi Kit lets you remotely control up to 16 indoor units using an app*. You can switch them on and off, select the operating mode and temperature, and utilise other functions, at any time and from anywhere.

* Available on iPhones and Android devices. A WiFi connection is required.

DVM S Desert

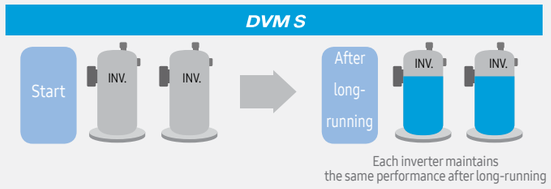
Reliable performance and durability

Stabilise operations with improved reliability and durability

Samsung is dedicated to supporting comfortable living and working environments based on the strength of its technologies. With its robust design, DVM S delivers the reliability and durability that users need to ensure consistent performance at all times.

Extend compressor longevity with balanced operation

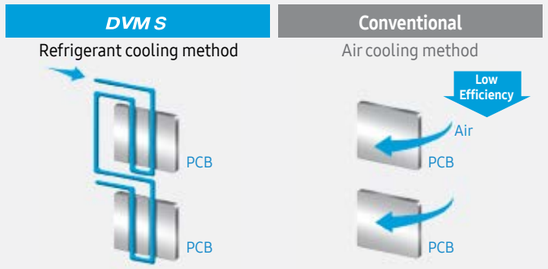
With conventional systems, one compressor operates longer than the other, which results in one compressor wearing down faster than the other. However, the DVM S DDI system offers balanced compressor operation for improved durability and longevity and lower replacement costs.



Each inverter maintains the same performance after long-running

Refrigerant Cooling System

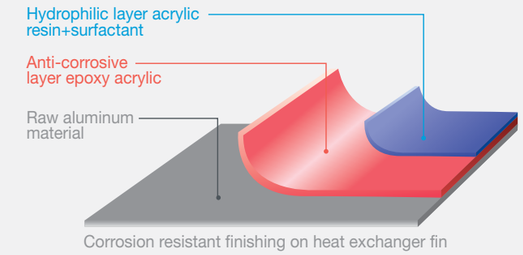
Refrigerant cooling system is not affected by the ambient temperature. Using refrigerant cooling system, DVM S ensures better stability than conventional air cooling system.



Protect your investment with corrosion and frost resistance

DVM S includes a hydrophilic coating that facilitates efficient heat exchange and delays the onset of frost formation to provide consistent heating performance. An anti-corrosive coating also helps units to resist corrosion from the elements, with:

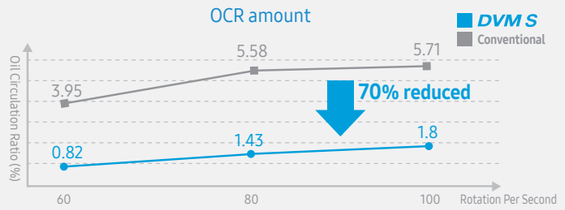
- Epoxy acrylic coating
- Acrylic and surfactant coating



Corrosion resistant finishing on heat exchanger fin

Rely on resilient performance with high oil storage capacity

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



Super DVM S Desert

The largest capacity

*22 & 24HP

World's biggest capacity

The Super DVM with the largest capacity in the most compact package, the Super DVM is powerful and highly energy efficient. So you can save costs and space, while providing more reliable coverage across larger areas.

More choice of capacity, even less cost

As a single unit, it offers a wide range of capacities from 8HP to 24HP. It's the world's first system to offer a single 24HP unit, so you can reduce the installation and management costs and save valuable space.

More usable space - no compromise

Its compact size leaves you plenty of extra space that can be used for other purposes without compromising on performance thanks to its highly efficient Inverter Scroll Compressor and Hybrid heat exchanger.

Maximise heating and cooling capacity with a conveniently sized design

To maximise profitability and value, an efficient use of space is critical for any business. Samsung Super DVM provides the world's largest heating and cooling capacity without increasing its size, enabling businesses to use their space more efficiently.

Super DVM S Desert

Innovative technology

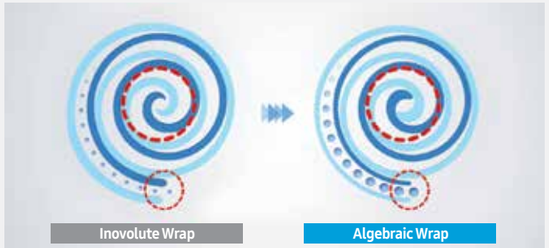
*22 & 24HP

Advanced performance & energy efficiency

Its advanced technology radically improves performance and reduces wasted energy. It includes a highly efficient Inverter Scroll Compressor, an innovative Hybrid heat exchanger and a large capacity diffuser.

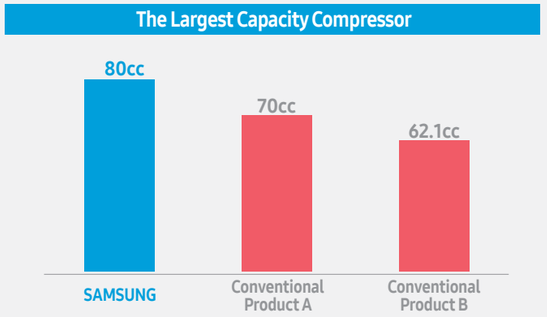
Asymmetric algebraic scroll

Super DVM applies a fluid, asymmetric algebraic scroll design that minimises compression loss and maximises performance during refrigerant compression. Compared with the involute, the scroll design is thickened toward the centre, thus efficiency is higher.



Improved winding wire

Featuring the world's largest 80cc/rev compressor, Samsung has developed the outdoor unit with 14.3% displacement increment.



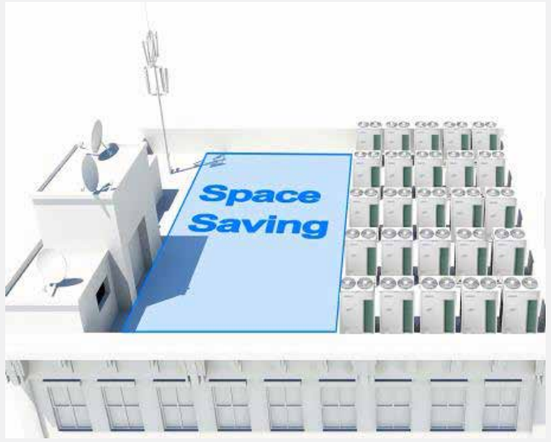
Instant shut off and gas leak protection

There's no need to worry about gas leaks or the accidental loss of refrigerant. A gas leak operation system quickly detects a gas leak, automatically takes the pump down a step, and cuts off the refrigerant supply.

Super DVM S Desert

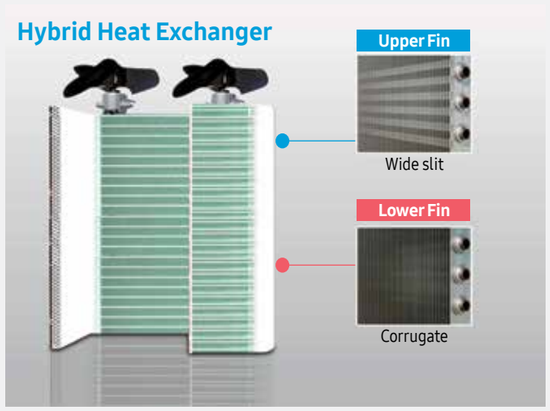
Maximise heating and cooling capacity with a conveniently sized design

To maximise profitability and value, an efficient use of space is critical for any business. Samsung DVM S Desert provides the world's largest heating and cooling capacity—without increasing its size—enabling businesses to use their space more efficiently.



Hybrid heat exchanger

The DVM S Desert hybrid heat exchanger offers a 49% larger heat transfer area, and a double layer that balances refrigerant flow. Refrigerant pressure drop is minimised by applying a different tube diametre in accordance with the refrigerant property.



Economical installation with world largest capacity

DVM S Desert provides the world's largest capacity so users can install a DVM with smaller footprint area and lighter weight.

Enhanced refrigerant cooling

The newly designed refrigerant cooling is unaffected by ambient temperature and can refrigerate stably even during partial load operation. Heat transfer efficiency is improved by 59%, with 65% less refrigerant pressure. The enhanced refrigerant cooling can operate efficiently under ambient conditions even with a bigger capacity of 24HP.

Conventional

New design

8 HP~ 20 HP

22 / 24HP

DVM S Desert

Combination table

Image										
Module \ Single		8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP
		AM080FXVCGH/ID	AM100FXVCGH/ID	AM120FXVCGH/ID	AM140FXVCGH/ID	AM160FXVCGH/ID	AM180HXVCNH/ID	AM200HXVCNH/ID	AM220KXVJNH/ID	AM240KXVJNH/ID
8HP	AM080FXVCGH/ID	1								
10HP	AM100FXVCGH/ID		1							
12HP	AM120FXVCGH/ID			1						
14HP	AM140FXVCGH/ID				1					
16HP	AM160FXVCGH/ID					1				
18HP	AM180HXVCNH/ID						1			
20HP	AM200HXVCNH/ID							1		
22HP	AM220KXVJNH/ID								1	
24HP	AM240KXVJNH/ID									1
26HP	AM260KXVJGH/ID		1			1				
28HP	AM280KXVJGH/ID		1				1			
30HP	AM300KXVJGH/ID		1					1		
32HP	AM320KXVJGH/ID		1						1	
34HP	AM340KXVJGH/ID		1							1
36HP	AM360KXVJGH/ID			1						1
38HP	AM380KXVJGH/ID						1	1		
40HP	AM400KXVJGH/ID							2		
42HP	AM420KXVJGH/ID						1			1
44HP	AM440KXVJGH/ID							1		1
46HP	AM460KXVJGH/ID								1	1
48HP	AM480KXVJGH/ID									2
50HP	AM500KXVJGH/ID	1						2		
52HP	AM520KXVJGH/ID		1					2		
54HP	AM540KXVJGH/ID			1				2		
56HP	AM560KXVJGH/ID				1			2		
58HP	AM580KXVJGH/ID					1		2		
60HP	AM600KXVJGH/ID							3		
62HP	AM620KXVJGH/ID							2	1	
64HP	AM640KXVJGH/ID							2		1
66HP	AM660KXVJGH/ID							1	1	1
68HP	AM680KXVJGH/ID							1		2
70HP	AM700KXVJGH/ID								1	2
72HP	AM720KXVJGH/ID									3
74HP	AM740KXVJGH/ID				1			3		
76HP	AM760KXVJGH/ID					1		3		
78HP	AM780KXVJGH/ID						1	3		
80HP	AM800KXVJGH/ID							4		
82HP	AM820KXVJGH/ID			1					1	2
84HP	AM840KXVJGH/ID			1						3
86HP	AM860KXVJGH/ID				1					3
88HP	AM880KXVJGH/ID					1				3
90HP	AM900KXVJGH/ID						1			3
92HP	AM920KXVJGH/ID							1		3
94HP	AM940KXVJGH/ID								1	3
96HP	AM960KXVJGH/ID									4

DVM S Desert

Specifications

Model Code		AM080FXVCGH/ID	AM100FXVCGH/ID	AM120FXVCGH/ID	AM140FXVCGH/ID	AM160FXVCGH/ID
Power Supply (Outdoor Unit) [Φ, #, 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
Performance (Nominal)	HP	8.00	10.00	12.00	14.00	16.00
Capacity	Cooling 1) [kW]	22.40	28.00	33.60	40.00	45.00
	Cooling 1) [Btu/h]	76,400	95,500	114,600	136,500	153,500
	Cooling 3) [kW]	22.40	25.00	28.90	35.30	40.30
	Cooling 3) [Btu/h]	76,400	85,300	98,600	120,400	137,500
	Heating 2) [kW]	25.20	31.50	37.80	45.00	50.40
	Heating 2) [Btu/h]	86,000	107,500	129,000	153,500	172,000
Power Input (Nominal)	Cooling 1) [kW]	5.00	6.80	8.12	8.90	11.00
	Cooling 3) [kW]	6.90	8.20	9.05	11.45	13.68
	Heating 2) [kW]	5.10	6.70	8.13	9.50	11.25
COP	Nominal Cooling 1)	4.48	4.12	4.14	4.49	4.09
	Nominal Cooling 3)	3.25	3.05	3.19	3.08	2.95
	Nominal Heating 2)	4.94	4.70	4.65	4.74	4.48
Fan	Air Flow Rate (High / Mid / Low) [CMM]	170	205	255	255	255
Piping Connections	Installation Max. Length [m]	200	200	200	200	200
	Installation Max. Height [m]	110.0	110.0	110.0	110.0	110.0
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A
Sound	Sound Pressure [dB(A)]	57.0	58.0	61.0	62.0	62.0
	Sound Power [dB(A)]	77.0	79.0	81.0	83.0	84.0
External Dimension (Outdoor Unit)	Net Weight [kg]	190.0	190.0	235.0	278.0	292.0
	Net Dimensions (WxHxD) [mm]	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

Model Code		AM180HXVCNH/ID	AM200HXVCNH/ID	AM220KXVJNH/ID	AM240KXVJNH/ID
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		3,4,380-415,50/60	3,4,380-415,50/60	3,4,380-415,50/60	3,4,380-415,50/60
Performance (Nominal)	HP	18.00	20.00	22.00	24.00
Capacity	Cooling 1) [kW]	50.40	56.00	61.60	67.20
	Cooling 1) [Btu/h]	172,000	191,100	210,200	229,300
	Cooling 3) [kW]	44.30	47.00	53.90	58.00
	Cooling 3) [Btu/h]	151,200	160,400	183,900	197,900
	Heating 2) [kW]	56.70	63.00	69.30	75.60
	Heating 2) [Btu/h]	193,500	215,000	236,500	258,000
Power Input (Nominal)	Cooling 1) [kW]	12.30	14.00	15.50	17.10
	Cooling 3) [kW]	15.00	16.50	19.00	20.50
	Heating 2) [kW]	12.40	14.18	15.80	17.42
COP	Nominal Cooling 1)	4.10	4.00	3.97	3.93
	Nominal Cooling 3)	2.95	2.85	2.84	2.83
	Nominal Heating 2)	4.57	4.44	4.39	4.34
Fan	Air Flow Rate (High / Mid / Low) [CMM]	310	310	340	340
Piping Connections	Installation Max. Length [m]	200	200	200	200
	Installation Max. Height [m]	110.0	110.0	110.0	110.0
Refrigerant	Type	R410A	R410A	R410A	R410A
Sound	Sound Pressure [dB(A)]	63.0	64.0	66.0	66.0
	Sound Power [dB(A)]	86.0	87.0	89.0	89.0
External Dimension (Outdoor Unit)	Net Weight [kg]	325.0	325.0	333.0	333.0
	Net Dimensions (WxHxD) [mm]	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

* Product Specifications in the publication can be changed without prior notice. because there is always ongoing improvement in our products.
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) Nominal cooling at 46°C Capacities are based on:
Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 46°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.
4) Tested in accordance with conditions specified in standards AHRI 1230, ISO 15042, Eurovent

DVM S Desert (Standard)

Specifications

Model Code		AM080HXVFGH/ID	AM100HXVFGH/ID	AM120HXVFGH/ID	AM140HXVFGH/ID	AM160HXVFGH/ID
Power Supply (Outdoor Unit) [Φ, #, 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
Performance (Nominal)	HP	8	10	12	14	16
Capacity	Cooling 1) [kW]	22.40	28.00	33.60	40.00	45.00
	Cooling 1) [Btu/h]	76,400	95,500	114,600	136,500	153,500
	Cooling 3) [kW]	19.00	25.00	28.50	35.30	40.30
	Cooling 3) [Btu/h]	64,800	85,300	97,200	120,400	137,500
	Heating 2) [kW]	25.20	31.50	37.80	45.00	50.40
	Heating 2) [Btu/h]	86,000	107,500	129,000	153,500	172,000
Power Input (Nominal)	Cooling 1) [kW]	5.21	7.23	8.4	10.47	11.81
	Cooling 3) [kW]	6.23	9.01	9.5	13.47	16.09
	Heating 2) [kW]	5.1	7.61	8.13	11.18	12.76
COP	Nominal Cooling 1)	4.3	3.87	4	3.82	3.81
	Nominal Cooling 3)	3.05	2.77	3	2.62	2.5
	Nominal Heating 2)	4.94	4.14	4.65	4.03	3.95
Fan	Air Flow Rate [CMM]	170	225	255	285	285
Piping Connections	Installation Max. Length [m]	220	220	220	220	220
	Installation Max. Height [m]	110	110	110	110	110
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A
Sound	Sound Pressure [dB(A)]	57	58	61	62	62
	Sound Power [dB(A)]	77	79	81	83	84
External Dimension (Outdoor Unit)	Net Weight [kg]	191	193	236	276	296
	Net Dimensions (WxHxD)[mm]	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

Combination table

Module	Model Code	8 HP	10 HP	12 HP	14 HP	16 HP
		AM080HXVFGH/ID	AM100HXVFGH/ID	AM120HXVFGH/ID	AM140HXVFGH/ID	AM160HXVFGH/ID
8 HP	AM080HXVFGH/ID	1				
10 HP	AM100HXVFGH/ID		1			
12 HP	AM120HXVFGH/ID			1		
14 HP	AM140HXVFGH/ID				1	
16 HP	AM160HXVFGH/ID					1
18 HP	AM180HXVFGH/ID	1	1			
20 HP	AM200HXVFGH/ID		2			
22 HP	AM220HXVFGH/ID		1	1		
24 HP	AM240HXVFGH/ID			2		
26 HP	AM260HXVFGH/ID			1	1	
28 HP	AM280HXVFGH/ID			1		1
30 HP	AM300HXVFGH/ID				1	1
32 HP	AM320HXVFGH/ID					2
34 HP	AM340HXVFGH/ID		1	2		
36 HP	AM360HXVFGH/ID			3		
38 HP	AM380HXVFGH/ID			2	1	
40 HP	AM400HXVFGH/ID			2		
42 HP	AM420HXVFGH/ID		1			2
44 HP	AM440HXVFGH/ID			1		2
46 HP	AM460HXVFGH/ID				1	2
48 HP	AM480HXVFGH/ID					3

DVM S Eco

Big capacity. Big choice.

The DVM S Eco is the world's largest capacity and most compact side-discharge outdoor unit, which also offers a high level of energy efficiency. It's ideal for homes or business that need plenty of coverage, but only have limited space.

Best in class capacity

The DVM S Eco provides more coverage, but takes up less space. It has the largest capacity in its class of 10HP, enabling you to create a small footprint VRF solution. It's ideal for installation in places with limited space.

Compact design for extra flexibility

The most compact air conditioner in its class, the DVM S Eco is very easy and economical to install and operate without compromising on performance. It also leaves plenty of extra space that can be used for other purposes.

Advanced performance & energy efficiency

The DVM S Eco's advanced technology radically improves performance and reduces wasted energy. It includes an innovative Digital Inverter Compressor, an optimised heat exchanger with corrugated fins and highly efficient fans.

Improved reliability in cold conditions

Featuring advanced refrigerant control technology, the DVM S Eco's flash injection provides improved heating performance at -25°C. And it continues to perform even at lower temperatures, for reliable comfort when it's freezing.

Control your cooling anywhere

An optional WiFi Kit lets you remotely control indoor units using a smartphone app*. Anytime and anywhere you can turn them on and off, select the operating mode and temperature and utilise other functions.

* Available on iPhones and Android devices. A WiFi connection is required.

DVM S Eco

Drive down costs and energy use with unmatched efficiency

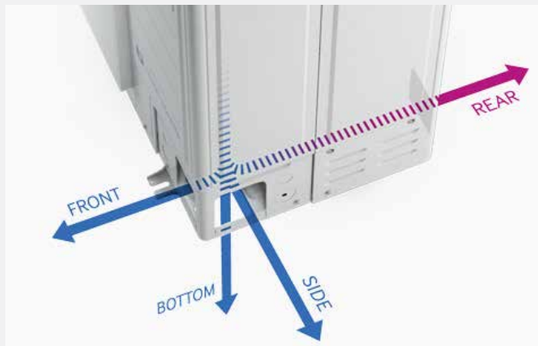
Samsung DVM S Eco delivers world-class energy efficiency for today's eco- and budget-conscious businesses. Using advanced compressor technology, it offers industry-leading COP, which means exceptional heating and cooling performance at a nominal cost.

Energy-efficient compression

DVM S Eco features an innovative inverter compressor, which provides a higher cooling and heating COP than that of a conventional model. The result is one of the most efficient air conditioning systems on the market and a smart investment for cost-conscious businesses.

Connects more, fits more

The DVM S Eco has a 4 way piping system, with connections at the front, side, bottom, rear, and a 160m piping length, so it fits into many more places, including small and narrow spaces, and is easier to install and maintain.

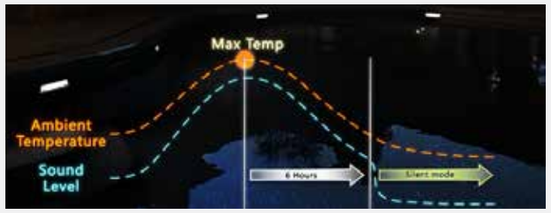


Enjoy minimal noise levels for maximum comfort

With its superior design, DVM S Eco offers a comforting environment undisturbed by bothersome noise levels typical of standard air conditioning systems. Residents can enjoy a more restful night and employees can increase focus levels with less disturbance.

Ultra-quiet operation

By producing less noise than conventional models, the DVM S ECO imposes fewer distractions on residential and working environments. Its compact, unimposing design and specially shaped fan blades help reduce sound levels up to 5 decibels, creating a more pleasant environment. Plus, its quiet operation during the night time creates a restful environment with a reduced noise level of 2 - 8 dB.



Efficient space use

With a single DVM S Eco (10 HP) outdoor unit, users can experience the same performance level as that of two 6+4 HP outdoor units. The streamlined high-performance unit reduces installation space, so users can optimise more compact areas and minimise installation effort.

Flexibly install it almost anywhere

The DVM S Eco provides the flexibility to be installed almost anywhere regardless of its location or distance from the building. It has a piping length of up to 160m and can reach up to a height of 50m.

DVM S Eco

Specifications

Model Code		AM040HXMFGH/ID	AM050HXMFGH/ID	AM060HXMFGH/ID	AM080KXMFGH/ID	AM100KXMFGH/ID
Power Supply (Outdoor Unit) [Φ, #, 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
Performance (Nominal)	HP	4.00	5.00	6.00	8.00	10.00
Capacity	Cooling 1) [kW]	12.10	14.00	16.00	22.39	27.99
	Cooling [Btu/h]	41,300	47,800	54,600	76,400	95,500
	Cooling 3) [kW]	10.00	11.60	13.20	18.99	25.00
	Cooling [Btu/h]	34,100	39,600	45,000	64,800	85,300
	Heating 2) [kW]	13.50	16.00	18.00	25.20	31.51
	Heating [Btu/h]	46,100	54,600	61,400	86,000	107,500
Power Input (Nominal)	Cooling 1) [kW]	2.81	3.36	4.19	5.33	6.83
	Cooling 3) [kW]	2.85	3.35	4.40	5.43	7.60
	Heating 2) [kW]	2.95	3.55	4.30	5.59	7.14
COP	Nominal Cooling	4.31	4.17	3.82	4.20	4.10
	Nominal Cooling	3.51	3.46	3.00	3.50	3.29
	Nominal Heating	4.58	4.51	4.19	4.51	4.41
Fan	Air Flow Rate (High / Mid / Low) [CMM]	100	120	120	190	190
Piping Connections	Installation Max. Length [m]	150	150	150	160	160
	Installation Max. Height [m]	50.0	50.0	50.0	50.0	50.0
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A
Sound	Sound Pressure [dB(A)]	50.0 / 52.0	51.0 / 53.0	52.0 / 54.0	58.0	60.0
External Dimension (Outdoor Unit)	Net Weight [Kg]	103.0	105.0	105.0	145.0	155.0
	Net Dimensions (WxHxD) [mm]	940 x 1,210 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,630 x 460	940 x 1,630 x 460
Operating Temp Range	Cooling (°C)	-5~54	-5~54	-5~54	-5~54	-5~54
	Heating (°C)	-20~24	-20~24	-20~24	-25~24	-25~24

* Product Specifications in the publication can be changed without prior notice. because there is always ongoing improvement in our products.
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) Nominal cooling at 46°C Capacities are based on:
Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 46°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.
4) Tested in accordance with conditions specified in standards AHRI 1230, ISO 15042, Eurovent

DVM S Water

Temper the indoor environment with innovative water-based heating and cooling technology

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 connects 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 also makes it easy and economical to install almost anywhere.

The Samsung DVM S WATER air conditioner system delivers optimal comfort, efficiency and performance with features such as:

- **Increased energy savings.** Save on energy consumption and costs with a dual inverter system and high-performance compressors.
- **Easy and flexible installation.** Ease installation and minimise effort with a lightweight design, extended piping length and elevation support.
- **Convenient management.** Monitor system performance effectively with convenient web-based data access and management from anywhere.
- **Premium comfort.** Support comfortable living and working environments based on the combined strengths of various technologies.

DVM S Water

Increased energy savings

Enhance the atmosphere and control costs with high energy efficiency

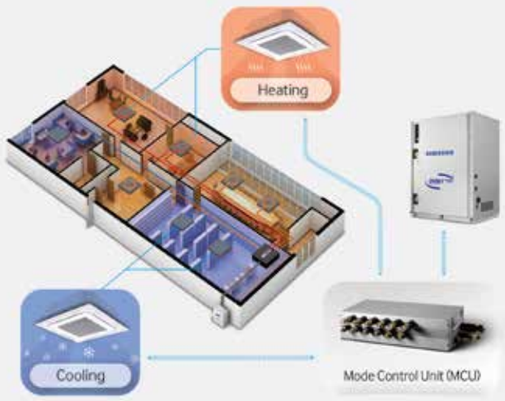
Samsung DVM S WATER features several smart technologies combined to give world-class energy efficiency for today's eco- and budget-conscious businesses. With these technologies, DVM S WATER boasts 8% higher EER than conventional models. Plus, its Coefficient Of Performance (COP) also surpasses the competition with an average rate of 11% higher.

Energy-efficient rapid heating and cooling

The third-generation innovative system, DDI, adopts a dual inverter compressor system. Both inverter compressors operate simultaneously, providing compressor longevity and balanced oil distribution for quick cooling and heating to save energy and the environment. Plus, the upgraded vapor injection system increases refrigerant flow by 20% compared to conventional products.

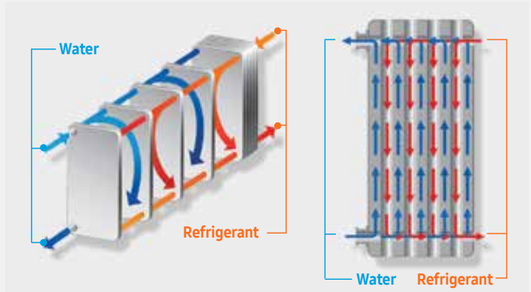
Independent cooling and heating

With the DVM S Water air conditioning system's optional Mode Control Unit (MCU), users can independently operate each indoor unit. This means users can set different temperatures for various spaces at the same time, heating some rooms or areas of the building, while cooling others.



Decreased maintenance and energy costs

DVM S WATER features advanced PHE technology, which improves cooling and heating efficiency, further benefiting the environment while reducing maintenance and energy costs.



Renewable energy source

Eco-friendly DVM S WATER uses geothermal energy as a renewable heat source instead of a cooling tower and boiler, effectively supporting businesses' environmental and cost reduction initiatives.

DVM S Water

Easy, flexible installation

Simplify installation with a cost-saving, adaptable design

The simplified yet powerful design of the DVM S WATER unit eases the installation process. Non-polar communication between indoor and outdoor units promotes easier, safer wiring work, because the outdoor unit protects itself if the communication cable is mistakenly connected to a power terminal.

Economical design and setup

At 22HP, the large-unit capacity of DVM S WATER facilitates economical installation with a smaller footprint and lighter weight—an ideal solution for larger buildings.

Broad installation options

DVM S WATER provides extended piping length of up to 170m and installation height of up to 50m offering businesses more installation options. The piping distance is far between outdoor and indoor units, so individual indoor units perform capacity connection control and automatic refrigerant equalisation for more balanced performance between units.

Louver less installation

The DVM S WATER air conditioning system's louver less installation ensures that the outside of the building remains neat and tidy. Because the system cools with water, it eliminates the need to install an unsightly louver to allow air to circulate and to remove excess heat. Its streamlined operation supports easy installation inside a building without impacting the integrity of its architectural design.

Tested in accordance with conditions specified in below standards AHRI 1230, ISO 15042, Eurovent

DVM S Water

Convenient management

Discover and resolve issues from anywhere with a smart management system

DVM S WATER features a smart management system for the ultimate in convenient management. The advanced system facilitates around-the-clock system monitoring along with self-regulating water flow control to ensure peak operation at all times.

Cost-effective water flow control

DVM S WATER's built-in water flow controller helps regulate the amount of water used to cool or heat the outdoor unit. It determines the optimum flow of water based on the internal temperature of the space, economising both the circulation pump's energy usage and costs. And because it's a standard option, businesses can eliminate the expense of purchasing a separate water flow control kit.

24-hour performance monitoring

A smart Auto Commissioning Management (ACM) function continually monitors operational performance and proactively signals any abnormal operation, so users can quickly address potential problems. And if a malfunction occurs, the last 30 minutes of operational data are stored for automatic backup. This lowers the maintenance cost of periodic inspections and ensures that the system is always operating. DVM S WATER also features an application with built-in signal contacts to support BACnet, and LonWorks, two popular building management systems (BMS).

DVM S Water

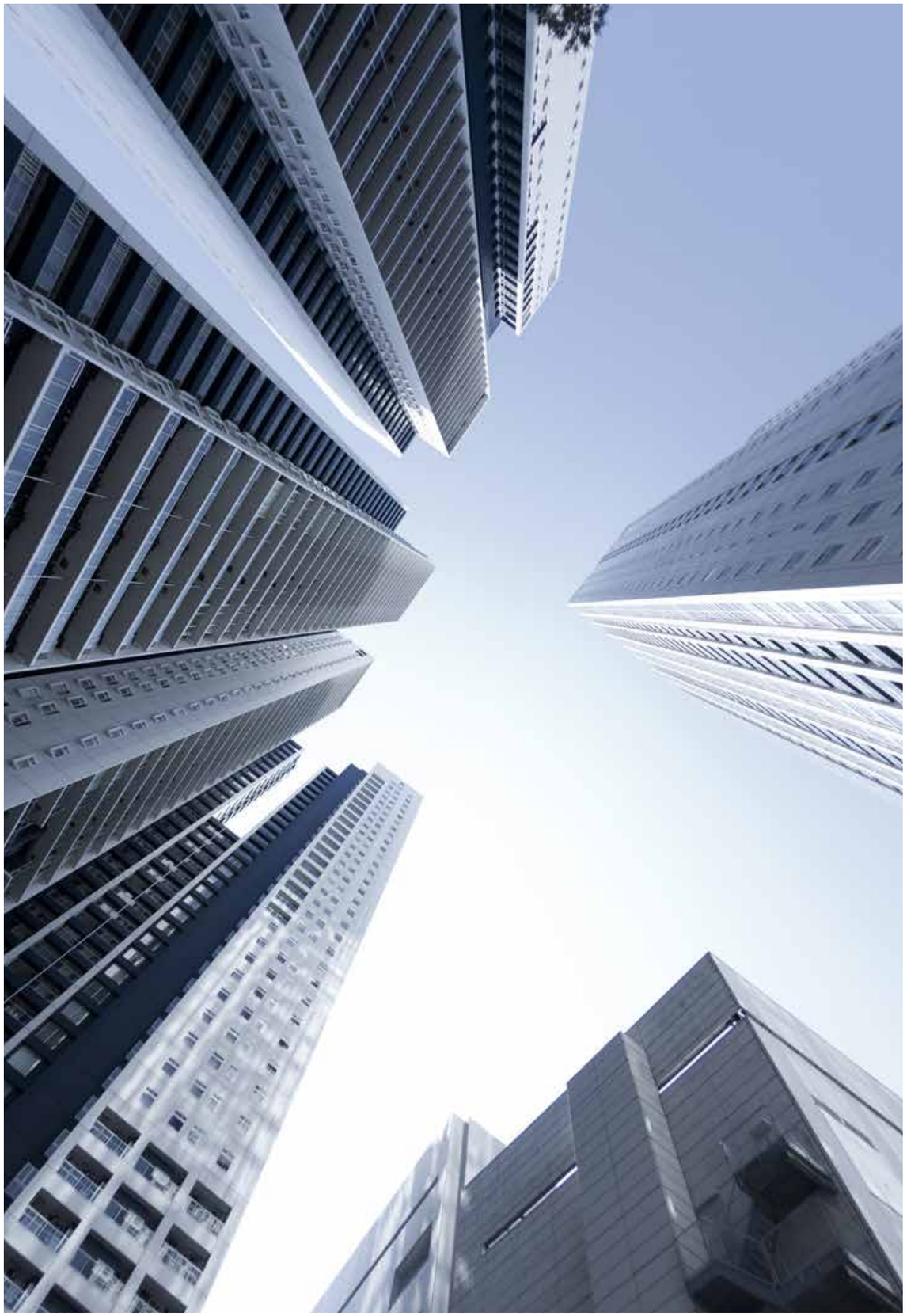
Combination table / Specification

DVM S Water

Image					
Module \ Single		8HP	10HP	12HP	20HP
		AM080FXWANR/EU	AM100FXWANR/EU	AM120FXWANR/EU	AM200FXWANR/EU
8HP	AM080FXWANR/EU	1			
10HP	AM100FXWANR/EU		1		
12HP	AM120FXWANR/EU			1	
16HP	AM160FXWANR/EU	2			
18HP	AM180FXWANR/EU	1	1		
20HP	AM200FXWANR/EU				1
22HP	AM220FXWANR/EU		1	1	
24HP	AM240HXWANR/EU			2	
26HP	AM260HXWANR/EU	2	1		
28HP	AM280HXWANR/EU	1			1
30HP	AM300HXWANR/EU		1		1
32HP	AM320HXWANR/EU			1	1
34HP	AM340HXWANR/EU		1	2	
36HP	AM360HXWANR/EU	2			1
38HP	AM380HXWANR/EU	1	1		1
40HP	AM400HXWANR/EU				2
42HP	AM420HXWANR/EU		1	1	1
44HP	AM440HXWANR/EU			2	1
48HP	AM480HXWANR/EU	1			2
50HP	AM500HXWANR/EU		1		2
52HP	AM520HXWANR/EU			1	2
60HP	AM600HXWANR/EU				3

Model Code		AM080FXWANR/EU	AM100FXWANR/EU	AM120FXWANR/EU	AM200FXWANR/EU
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		3,4,380-415,50/60	3,4,380-415,50/60	3,4,380-415,50/60	3,4,380-415,50/60
Performance (Nominal)	HP	8.00	10.00	12.00	20.00
Capacity	Cooling 1) [kW]	22.40	28.00	33.60	56.00
	Cooling [Btu/h]	76,400	95,500	114,600	191,100
	Heating 2) [kW]	25.20	31.50	37.80	63.00
	Heating [Btu/h]	86,000	107,500	129,000	215,000
Power Input (Nominal)	Cooling 1) [kW]	3.84	5.05	6.46	10.77
	Heating 2) [kW]	4.12	5.25	6.51	10.86
Energy Efficiency	EER (Nominal Cooling)	5.83	5.54	5.20	5.20
	COP (Nominal Heating)	6.12	6.00	5.81	5.80
Condenser	Type	PHE(Stainless Steel Plate)	PHE(Stainless Steel Plate)	PHE(Stainless Steel Plate)	PHE(Stainless Steel Plate)
	Pipe Size [Φ, inch]	32.0	32.0	32.0	32.0
	Lost Head [kPa]	22.0	30.0	43.0	54.0
	Water Flow Rate [LPM]	80.0	96.0	114.0	190.0
	Max. Pressure [Mpa]	1.96	1.96	1.96	1.96
Piping Connections	Installation Max. Length [m]	170	170	170	170
	Installation Max. Height [m]	50.0	50.0	50.0	50.0
Refrigerant	Type	R410A	R410A	R410A	R410A
Sound	Sound Pressure [dB(A)]	48.0	48.0	50.0	51.0
	Sound Power [dB(A)]	70.0	70.0	70.0	73.0
External Dimension (Outdoor Unit)	Net Weight [kg]	160.0	160.0	160.0	240.0
	Net Dimensions (WxHxD) [mm]	770 x 1,000 x 545	770 x 1,000 x 545	770 x 1,000 x 545	1,100 x 1,000 x 545

* Product Specifications in the publication can be changed without prior notice. because there is always ongoing improvement in our products.
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.

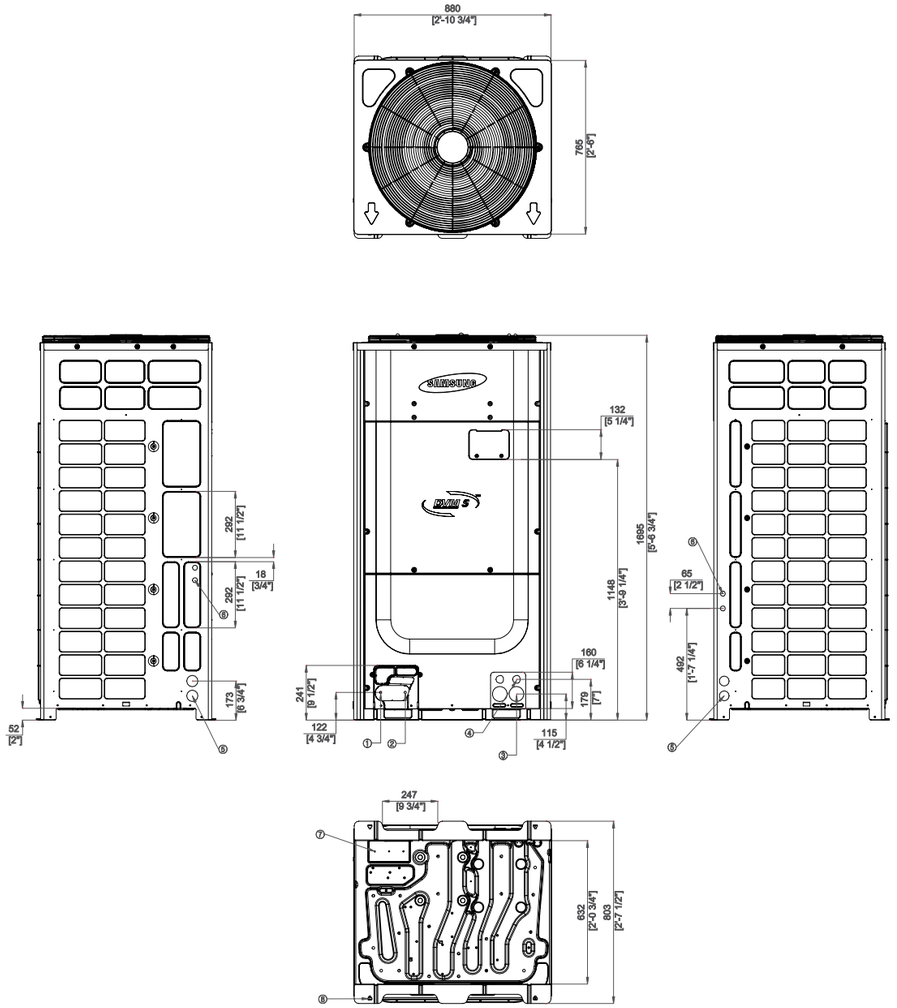


DVM S Desert

Dimensional Drawings

8 HP, 10 HP

Units: mm, inch



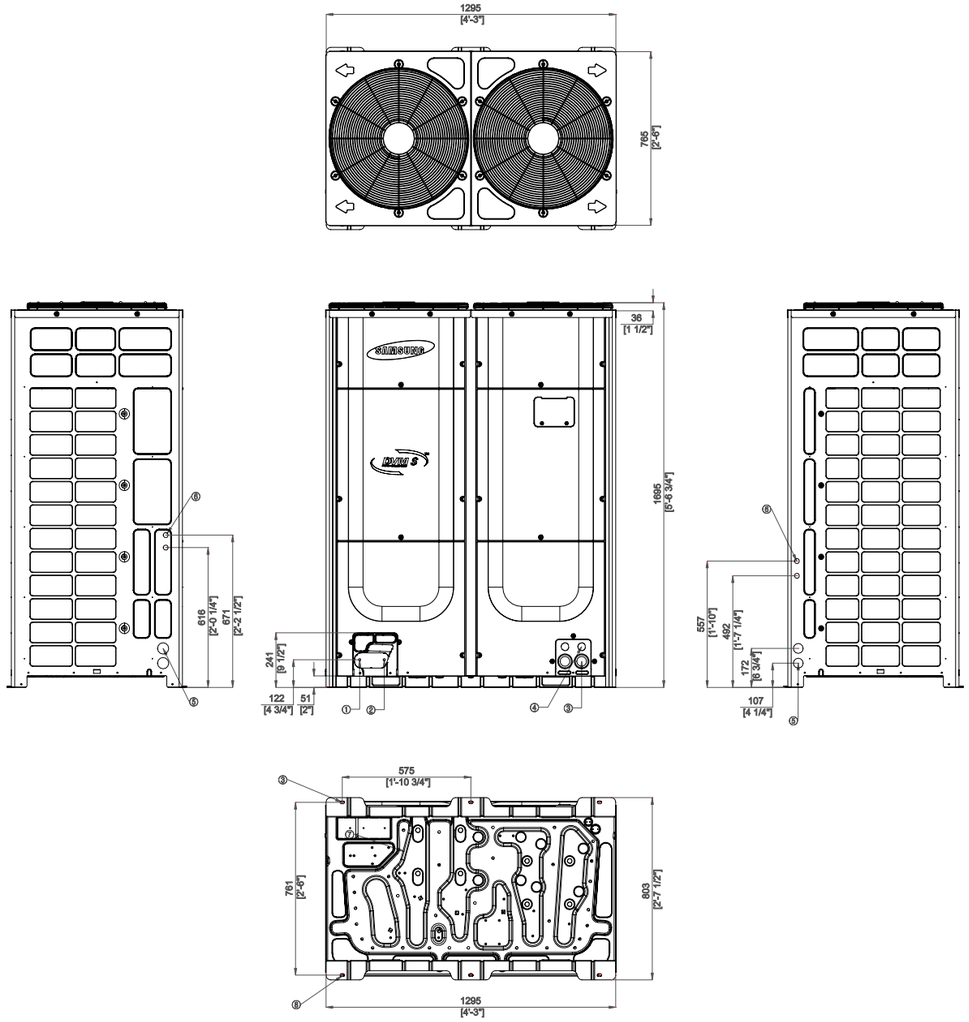
No.	Name
1	Gas ref. pipe
2	Liquid ref. pipe
3	Power wiring conduit
4	Communication wiring conduit
5	Power wiring conduit
6	Communication wiring conduit
7	Knock-out hole for ref. piping
8	Anchor bolt hole

DVM S Desert

Dimensional Drawings

12 HP , 14 HP, 16 HP, 18 HP, 20 HP

Units: mm, inch



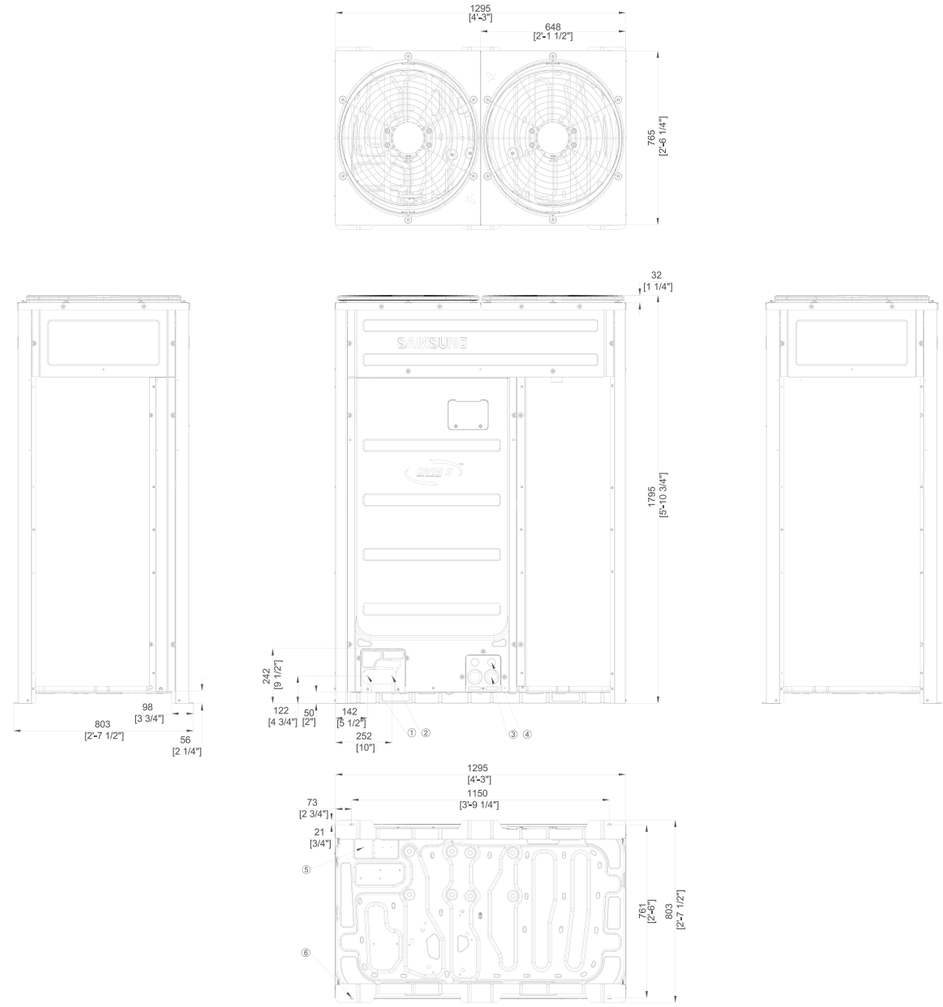
No.	Name
1	Gas ref. pipe
2	Liquid ref. pipe
3	Power wiring conduit
4	Communication wiring conduit
5	Power wiring conduit
6	Communication wiring conduit
7	Knock-out hole for ref. piping
8	Anchor bolt hole

Super DVM S

Dimensional Drawings

22 HP, 24 HP

Units: mm, inch

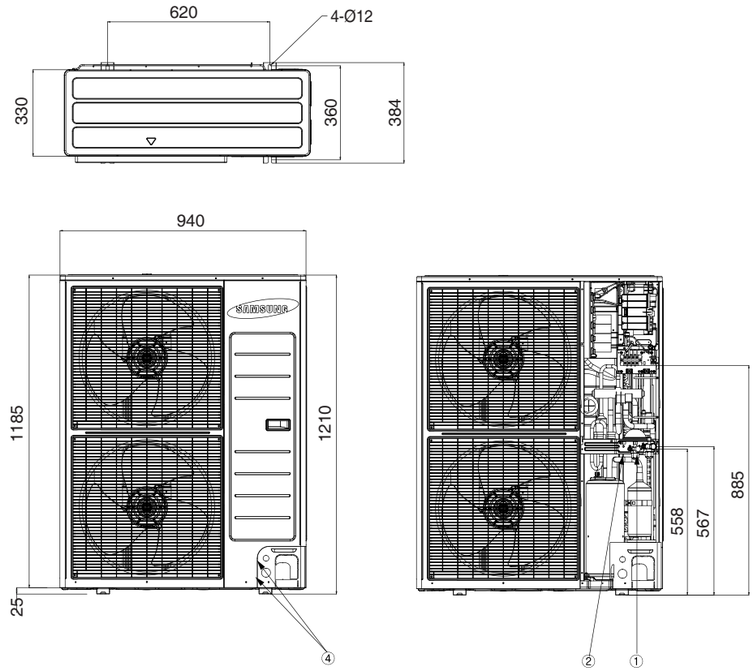


No.	Name
1	Gas ref. pipe
2	Liquid ref. pipe
3	Power wiring conduit
4	Communication wiring conduit
5	Knock-out hole for ref. piping
6	Anchor bolt hole

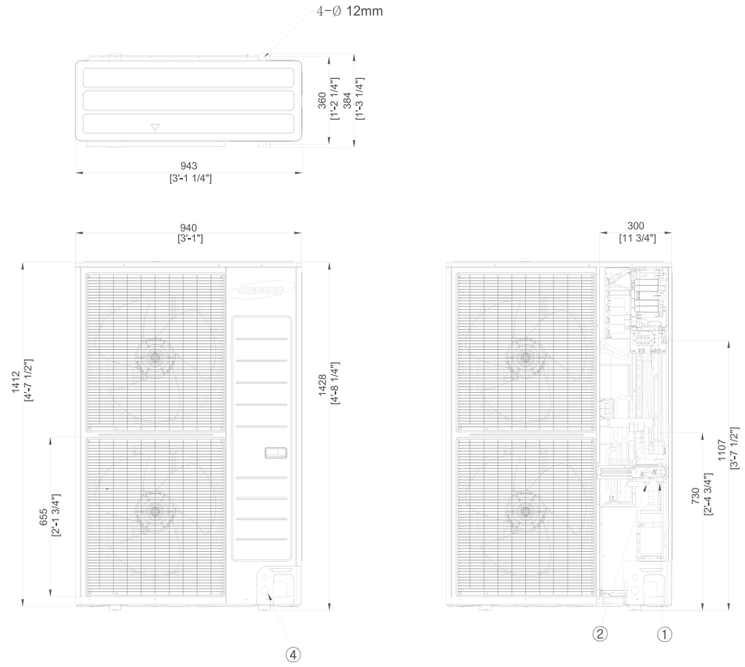
DVM S Eco
Dimensional Drawings

4 HP

Units: mm, inch



5 HP, 6 HP

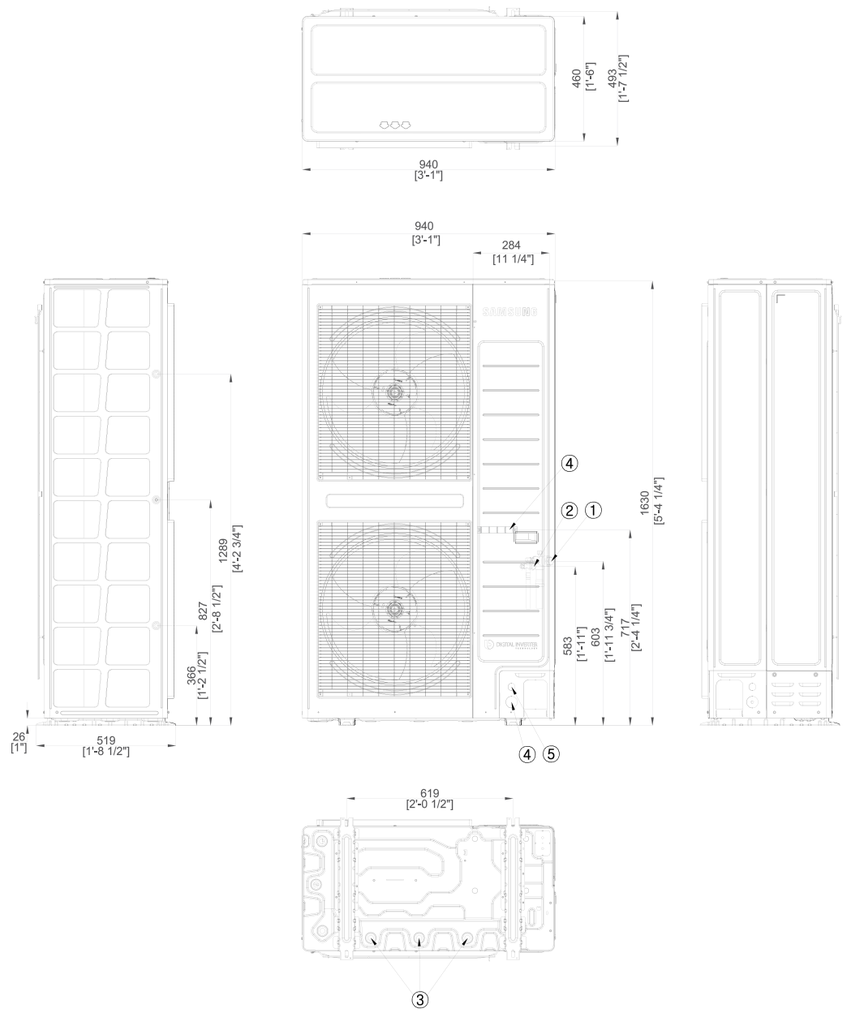


No.	Name
1	Gas ref. pipe
2	Liquid ref. pipe
3	Condensate drain holes
4	Power & communication wiring holes

DVM S Eco
Dimensional Drawings

8 HP, 10 HP

Units: mm, inch



No.	Name
1	Refrigerant gas pipe
2	Refrigerant liquid pipe
3	Drain hole
4	Power wining conduits
5	Power & comm. wiring conduits

Indoor Units

360 Cassette

All round cooling and comfort

The Samsung 360 Cassette air conditioner offers a brand new way of staying comfortably cool in every corner of the room. Its innovative circular design not only means it perfectly fits in everywhere, adding a sophisticated look to many different sites, but it also blows cool air in all directions, so that the whole room is the same temperature*. Its bladeless outlet ensures that cool air is gently dispersed, without creating cold drafts**, and that the air flow is not blocked even at low angles. This allows it to expel 25% more air* and spread it farther.

Evenly circulates & cools every corner

Unike 4 Way Cassette type air conditioners that create areas of uneven airflow where cool air can't reach*, a circular outlet blows cool air in all directions, so every corner of a room is the same temperature**.

* Samsung testing compared to a general 4 Way Cassette type air conditioner.
** Within a 9.3m radius the temperature difference is less than 0.6ºC.

* Within a 9.3m radius the temperature difference is less than 0.6°C.

DVM S

360 Cassette

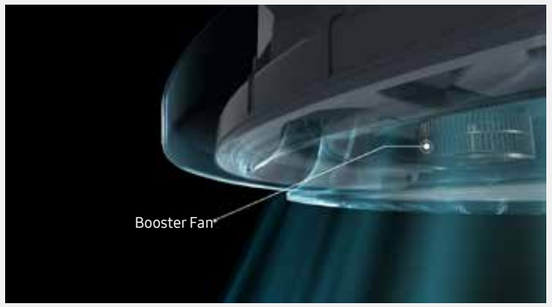
Comfortably cool, not cold

A bladeless design softly disperses cool air across the room, making you comfortably cool without feeling a cold draft*. With no blades to block the air flow, it also expels 25% more air and spreads it farther.

* Within a 5m radius, no cold draft between 0~1.5m in height (with 14.0kW).

Spreads more air in more ways

An innovative Booster Fan enables cool air to be expelled at much lower angles. It creates a low pressure area around the outlet, so that cool air comes out parallel to the ceiling and disperses across a wider area.



Circular to perfectly fit in everywhere

Its innovative circular design can match a multitude of interior designs, so it perfectly fits in everywhere. Its minimalist modern styling creates a sophisticated look and its circular shape stands out beautifully.

- When installing the circular panel on the ceiling, make sure to install two or more inspection holes for the maintenance.
- Inspection Holes are not mandatory for separable ceiling structure. (For further information, please refer to the installation manual.)

All round simpler & intuitive control

Intuitively control its performance and see where the air is going. The Wireless Remote Controller's* Jog shuttle and button offer a fun way to adjust the air flow and a Circular LED Display shows its direction.

* Optional.

360 Cassette

Specifications

Model Code		AM045KN4DEH/TK	AM056KN4DEH/TK	AM071KN4DEH/TK	AM090KN4DEH/TK
Features	Type	360 CASSETTE	360 CASSETTE	360 CASSETTE	360 CASSETTE
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	4.50	5.60	7.10	9.00
	Cooling 2) [Btu/h]	15,400	19,100	24,200	30,700
	Heating 2) [kW]	5.00	6.30	8.00	10.00
	Heating 2) [Btu/h]	17,100	21,500	27,300	34,100
Power Input (Nominal)	Cooling 1) [W]	26.00	30.00	34.00	55.00
	Heating 2) [W]	26.00	30.00	34.00	55.00
Fan	Motor (Output) [W]	65 x 1	65 x 1	65 x 1	65 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	14.50/13.50/12.50	16.00/14.50/13.50	18.00/16.00/14.00	22.00/18.50/16.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")
	Gas Pipe (Φ,mm, inch)	12.70 (1/2")	12.70 (1/2")	15.88 (5/8")	15.88 (5/8")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	33.0/31.0/29.0	34.0/32.0/29.0	36.0/33.0/30.0	40.0/36.0/32.0
	Sound Power	50.0	51.0	53.0	57.0
External Dimension (Indoor Unit)	Net Weight (kg)	21.00	21.00	21.00	21.00
	Net Dimensions (WxHxD) (mm)	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947
Panel Size	Panel Model	Square WH : PC4NUDMAN / Square BL : PC4NBDMAN / Circle WH : PC4NUNMAN / Circle BL : PC4NBNMAN			
	Panel Net Weight (kg)	Square : 3.60 / Circle : 2.70			
	Net Dimensions (WxHxD) (mm)	Square : 1000 x 66 x 1000 / Circle : 1050 x 94 x 1050			

Model Code		AM112KN4DEH/TK	AM128KN4DEH/TK	AM140KN4DEH/TK
Features	Type	360 CASSETTE	360 CASSETTE	360 CASSETTE
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	11.20	12.80	14.00
	Cooling 2) [Btu/h]	38,200	43,700	47,800
	Heating 2) [kW]	12.50	13.80	16.00
	Heating 2) [Btu/h]	42,700	47,100	54,600
Power Input (Nominal)	Cooling 1) [W]	53.00	77.00	91.00
	Heating 2) [W]	53.00	77.00	91.00
Fan	Motor (Output) [W]	97 x 1	97 x 1	97 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	25.50/21.00/17.50	29.50/24.00/19.00	31.50/26.50/21.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Gas Pipe (Φ,mm, inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	40.0/36.0/32.0	42.0/38.0/33.0	44.0/40.0/35.0
	Sound Power	58.0	60.0	61.0
External Dimension (Indoor Unit)	Net Weight (kg)	24.00	24.00	24.00
	Net Dimensions (WxHxD) (mm)	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
Panel Size	Panel Model	Square WH : PC4NUDMAN / Square BL : PC4NBDMAN / Circle WH : PC4NUNMAN / Circle BL : PC4NBNMAN		
	Panel Net Weight (kg)	Square : 3.60 / Circle : 2.70		
	Net Dimensions (WxHxD) (mm)	Square : 1000 x 66 x 1000 / Circle : 1050 x 94 x 1050		

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish) | MWR-SH10N, MWR-SH10RN (Turkish) | MWR-SH00N | AR-KH00E, AR-KH00R (Turkish) -360 CST dedicated

Panel (Optional)

PC4NUDMAN | PC4NBDMAN | PC4NUNMAN | PC4NBNMAN

Tested in accordance with conditions specified in below standards AHRI 1230, ISO 15042, Eurovent

Wind-Free™ 4Way Cassette

Wind-Free™ Cooling.

Get cool fast, Stay Cool without Direct Wind.

Wind-Free™ Cooling effectively maintains a comfortable level of coolness without the unpleasant feeling of cold wind. Cool air is gently dispersed through 15,700 micro air holes, so you don't feel too hot or cold.

※ Still Air condition : According to ASHRAE, if velocity of wind is below 0.15 m/s, people cannot sense airflow. Such condition is defined as "Still Air."

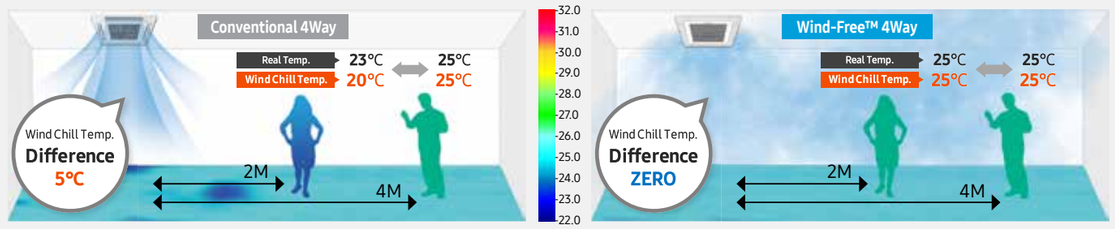
Wind-Free™ 4Way Cassette

Keeps comfortable without changing settings.

The 2-Step Cooling cools the air fast in Fast Cooling, then automatically changes to Wind-Free™ to maintain the temperature. So you stay comfortable, without cold spots, and don't need to change settings.

Even Cooling in All Area

Wind-Free™ Cooling keeps the temperature inside all evenly.

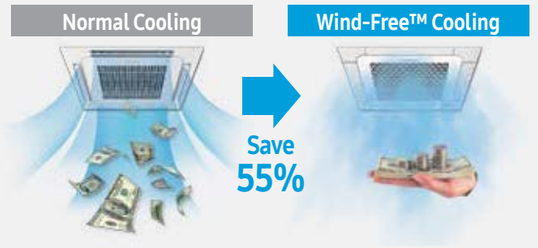


Energy saving with Wind-Free™.

Under same condition, can save energy use by 55% compared to conventional cooling.

*Tested on Outdoor unit AC140MXADKH, Indoor unit AM140FN4DEH when running simultaneously, Individual result may vary depending on consumer usage

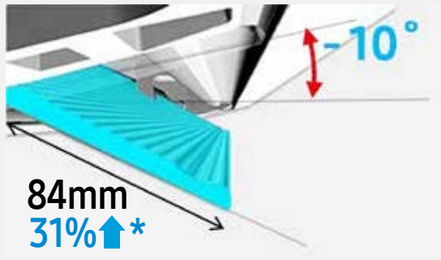
*Test Temperature : OD 35℃ DB / 24℃ WB, ID 27℃ DB / 19℃ WB



Wind-Free™ 4Way Cassette

Big Blade, Long Wind

Big and optimized blades enable wider cooling range.

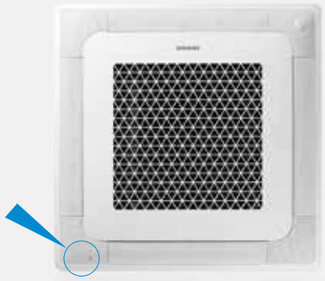


*Compared with Conventional 4way

*Tested on Outdoor unit AC140MXADKH, Indoor unit AM140FN4DEH when running simultaneously, Individual result may vary depending on consumer usage.

Aesthetic panel and display

Wind-Free™ 4Way Cassette offers different designs for the panel. The right look to suit their design preference. Plus, the simple display design.



Motion detect sensor(Optional)

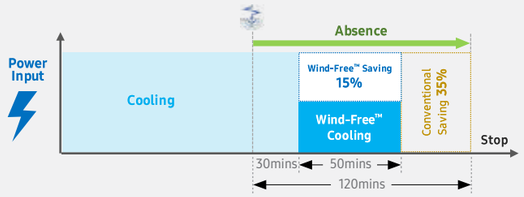
Motion detect sensor enables customized air flow and energy efficient operation.

Wind Direction : Choose Your Comfort

Direct wind or Indirect wind

Energy Saving : 35% > 50%

Wind-Free™ + OFF Control



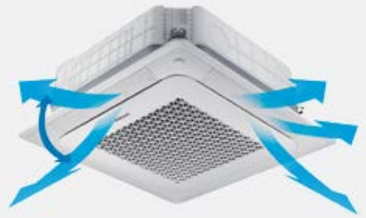
Wind-Free™ 4Way Cassette

Achieve peak performance with optimal airflow and superior control

Integrating the most advanced technologies, Samsung 4Way Cassette delivers easy, efficient comfort with specialized blade control, adjustable operation and powerful airflow. And optional Virus Doctor extends the unit's efficiency with air sanitation technology for a healthier atmosphere.

Individual blade control

Samsung 4Way Cassette features a remote controller that enables users to manipulate the angles of the fan blades for more efficient cooling. With the remote controller, users can individually set the opening angles of the four blades at the same angle or different angles within a -10˚ ~ 53 ˚ range to create just the right atmosphere.



Easy leveling and installation

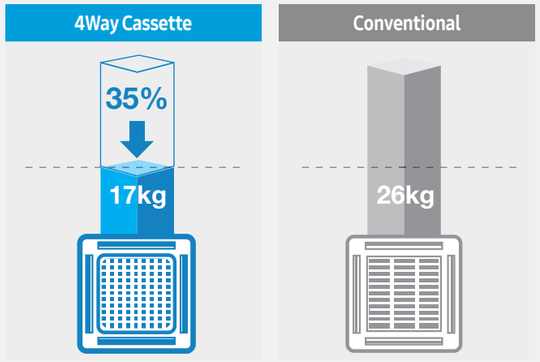
Each corner portion of the 4Way Cassette panel is detachable. This makes it easier for users to adjust the height, and makes installation and leveling much easier and quicker.

Simple cleanup

4Way Cassette indoor units have detachable airflow blades, which means users don't need to remove the entire panel to clean the blade, making maintenance even easier.

Lightweight build

The Samsung Wind-Free™ 4way Cassette indoor unit is now lighter in weight at percent lighter than conventional products.



Ionizer Kit(Optional)

Users can sanitize indoor air with the optional Ionizer kit for a cleaner work or living environment. The easy-to-install Ionizer kit generates active hydrogen and oxygen ions to reduces airborne virus and bacteria.

Wind-Free™ 4Way Cassette

Specifications

Type		Wind-Free 4Way Cassette	Wind-Free 4Way Cassette	Wind-Free 4Way Cassette
Model Code		AM045NN4DEH/TK	AM056NN4DEH/TK	AM071NN4DEH/TK
Power Supply [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode		HP/HR	HP/HR	HP/HR
Capacity	Cooling [kW]	4.50	5.60	7.10
	Cooling [Btu/h]	15,400	19,100	24,200
	Heating [kW]	5.00	6.30	8.00
	Heating [Btu/h]	17,100	21,500	27,300
Power Input	Cooling [W]	32.00	32.00	45.00
	Heating [W]	32.00	32.00	45.00
Fan	Motor (Output x n) [W]	65 x 1	65 x 1	65 x 1
	Air Flow Rate H/M/L [CMM]	14.50/13.50/12.50	15.00/14.00/13.00	17.00/15.50/14.50
Piping Connections	Liquid Pipe (Φ,mm)	6.35	6.35	9.52
	Gas Pipe (Φ,mm)	12.70	12.70	15.88
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	33.0/32.0/30.0	33.0/32.0/30.0	35.0/34.0/33.0
	Sound Power [Cooling]	49.0	50.0	54.0
Dimensions	Net Weight [Kg]	15.00	15.00	15.00
	Net Dimensions (W×H×D) [mm]	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
Panel Size	Panel model	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
	Panel Net Weight [Kg]	6.50	6.50	6.50
	Net Dimensions (W×H×D) [mm]	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950

Type		Wind-Free 4Way Cassette	Wind-Free 4Way Cassette	Wind-Free 4Way Cassette	Wind-Free 4Way Cassette
Model Code		AM090NN4DEH/TK	AM112NN4DEH/TK	AM128NN4DEH/TK	AM140NN4DEH/TK
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
Mode		HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling [kW]	9.00	11.20	12.80	14.00
	Cooling [Btu/h]	30,700	38,200	43,700	47,800
	Heating [kW]	10.00	12.50	13.80	16.00
	Heating [Btu/h]	34,100	42,700	47,100	54,600
Power Input	Cooling [W]	62.00	78.00	73.00	89.00
	Heating [W]	62.00	78.00	73.00	89.00
Fan	Motor (Output x n) [W]	65 x 1	65 x 1	97 x 1	97 x 1
	Air Flow Rate H/M/L [CMM]	19.50/18.00/16.50	26.00/24.00/22.00	28.00/26.00/23.00	30.00/28.00/26.00
Piping Connections	Liquid Pipe (Φ,mm)	9.52	9.52	9.52	9.52
	Gas Pipe (Φ,mm)	15.88	15.88	15.88	15.88
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	39.0/36.0/33.0	40.0/38.0/35.0	42.0/40.0/35.0	44.0/41.0/35.0
	Sound Power [Cooling]	57.0	57.0	58.0	60.0
Dimensions	Net Weight [Kg]	15.00	16.50	18.50	18.50
	Net Dimensions (W×H×D) [mm]	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
Panel Size	Panel model	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
	Panel Net Weight [Kg]	6.50	6.50	6.50	6.50
	Net Dimensions (W×H×D) [mm]	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950

Wind-Free™ 4Way Cassette (600 X 600)

Wind-Free™ Cooling.

Get cool fast, Stay Cool without Direct Wind.

Wind-Free™ Cooling effectively maintains a comfortable level of coolness without the unpleasant feeling of cold wind. Cool air is gently dispersed through 9,000 micro air holes, so you don't feel too hot or cold.

※ Still Air condition : According to ASHRAE, if velocity of wind is below 0.15 m/s, people cannot sense airflow. Such condition is defined as "Still Air."

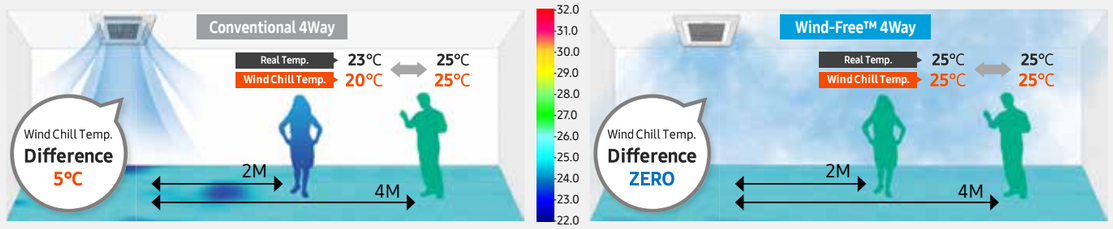
Wind-Free™ 4Way Cassette (600 X 600)

Keeps comfortable without changing settings.

The 2-Step Cooling cools the air fast in Fast Cooling, then automatically changes to Wind-Free™ to maintain the temperature. So you stay comfortable, without cold spots, and don't need to change settings.

Even Cooling in All Area

Wind-Free™ Cooling keeps the temperature inside all evenly.



Smart on/off function(Optional)

Energy Saving MDS detects when individuals are absent from the area and automatically stops the air conditioning operation. It also automatically sets operation patterns to create the perfect atmosphere and maximize energy efficiency.

Wind-Free™ 4Way Cassette (600 X 600)

Achieve peak performance with optimal airflow and superior control

Integrating the most advanced technologies, Samsung 4Way Cassette delivers easy, efficient comfort with specialized blade control, adjustable operation and powerful airflow. And optional Virus Doctor extends the unit's efficiency with air sanitation technology for a healthier atmosphere.

Individual blade control

Samsung 4Way Cassette features a remote controller that enables users to manipulate the angles of the fan blades for more efficient cooling. With the remote controller, users can individually set the opening angles of the four blades at the same angle or different angles within a -10˚ ~ 53 ˚ range to create just the right atmosphere.

Silent, uniform air distribution

The aerodynamically designed Turbo Fan minimizes blade movement noise, meaning that 4Way Cassette is noticeably quieter than conventional models. Plus, the Turbo Fan's wide blades provide evenly distributed extreme cooling and heating from four separate outlets so the entire room cools down or warms up faster.

Easy leveling and installation

Each corner portion of the 4Way Cassette panel is detachable. This makes it easier for users to adjust the height, and makes installation and leveling much easier and quicker.

Simple cleanup

4Way Cassette indoor units have detachable airflow blades, which means users don't need to remove the entire panel to clean the blade, making maintenance even easier.

Lightweight build

The Samsung Wind-Free™ 4way Cassette 600x600 indoor unit is now lighter in weight at percent lighter than conventional products.

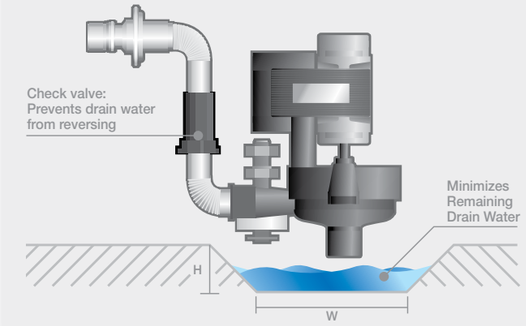
Wind-Free™ 4Way Cassette (600 X 600)

Aesthetic panel and display

Wind-Free™ 4Way Cassette offers different designs for the panel. The right look to suit their design preference. Plus, the simple display design.

Drip-free operation

The check valve on the drain pump prevents drained water from flowing backward into the drain pan. This minimizes the drain pan's water level, eliminating the worry and hassle of water stagnation or overflowing drain water dripping into the interior.



Perfect architectural ceiling tiles size

Samsung newly designed 4 Way Cassette (600 x 600) panel can be installed on a within one ceiling tile (600 x 600) without disturbance installed in the adjacent ceiling tiles on lights, sprinklers.

Ionizer Kit(Optional)

Users can sanitize indoor air with the optional Ionizer kit for a cleaner work or living environment. The easy-to-install Ionizer kit generates active hydrogen and oxygen ions to reduces airborne virus and bacteria.

Wind-Free™ 4Way Cassette (600 X 600)

Specifications

Type		Wind-Free 4Way Cassette (600x600)	Wind-Free 4Way Cassette (600x600)	Wind-Free 4Way Cassette (600x600)
Model Code		AM022NNNDEH/TK	AM028NNNDEH/TK	AM036NNNDEH/TK
Power Supply [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode		HP/HR	HP/HR	HP/HR
Capacity	Cooling [kW]	2.20	2.80	3.60
	Cooling [Btu/h]	7,500	9,600	12,300
	Heating [kW]	2.50	3.20	4.00
	Heating [Btu/h]	8,500	10,900	13,600
Power Input	Cooling [W]	18.00	18.00	20.00
	Heating [W]	18.00	18.00	20.00
Fan	Motor (Output x n) [W]	65 x 1	65 x 1	65 x 1
	Air Flow Rate H/M/L [CMM]	9.00/7.70/6.50	10.00/8.50/7.50	10.50/9.00/7.50
Piping Connections	Liquid Pipe (Φ,mm)	6.35	6.35	6.35
	Gas Pipe (Φ,mm)	12.70	12.70	12.70
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	32.0/29.0/25.0	33.0/30.0/26.0	34.0/30.0/26.0
	Sound Power [Cooling]	47.0	50.0	51.0
Dimensions	Net Weight [Kg]	12.00	12.00	12.00
	Net Dimensions (W×H×D) [mm]	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
Panel Size	Panel model	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN
	Panel Net Weight [Kg]	2.70	2.70	2.70
	Net Dimensions (W×H×D) [mm]	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620

Type		Wind-Free 4Way Cassette (600x600)	Wind-Free 4Way Cassette (600x600)	Wind-Free 4Way Cassette (600x600)
Model Code		AM045NNNDEH/TK	AM056NNNDEH/TK	AM060NNNDEH/TK
Power Supply [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode		HP/HR	HP/HR	HP/HR
Capacity	Cooling [kW]	4.50	5.60	6.00
	Cooling [Btu/h]	15,400	19,100	20,500
	Heating [kW]	5.00	6.30	6.80
	Heating [Btu/h]	17,100	21,500	23,200
Power Input	Cooling [W]	23.00	28.00	31.00
	Heating [W]	23.00	28.00	31.00
Fan	Motor (Output x n) [W]	65 x 1	65 x 1	65 x 1
	Air Flow Rate H/M/L [CMM]	11.50/10.20/9.00	13.00/11.00/9.50	13.50/12.00/10.20
Piping Connections	Liquid Pipe (Φ,mm)	6.35	6.35	6.35
	Gas Pipe (Φ,mm)	12.70	12.70	12.70
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	36.0/34.0/32.0	39.0/36.0/33.0	40.0/38.0/35.0
	Sound Power [Cooling]	53.0	56.0	57.0
Dimensions	Net Weight [Kg]	12.00	12.00	12.00
	Net Dimensions (W×H×D) [mm]	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
Panel Size	Panel model	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN
	Panel Net Weight [Kg]	2.70	2.70	2.70
	Net Dimensions (W×H×D) [mm]	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620

Wind-Free™ 1Way Cassette

Wind-Free™ Cooling.

Get cool fast, Stay Cool without Direct Wind.

Wind-Free™ Cooling effectively maintains a comfortable level of coolness without the unpleasant feeling of cold wind. Cool air is gently dispersed through 10,000 micro air holes, so you don't feel too hot or cold.

※ Still Air condition : According to ASHRAE, if velocity of wind is below 0.15 m/s, people cannot sense airflow. Such condition is defined as "Still Air."

※ PC1MWFMAN : 7,534ea
PC1NWFMAN : 10,454ea
PC1BWFMAN : 13,961ea

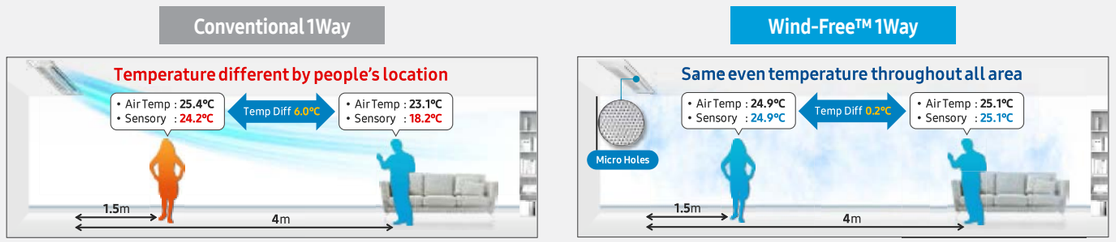
Wind-Free™ 1Way Cassette

Keeps comfortable without changing settings.

The 2-Step Cooling cools the air fast in Fast Cooling, then automatically changes to Wind-Free™ to maintain the temperature. So you stay comfortable, without cold spots, and don't need to change settings.

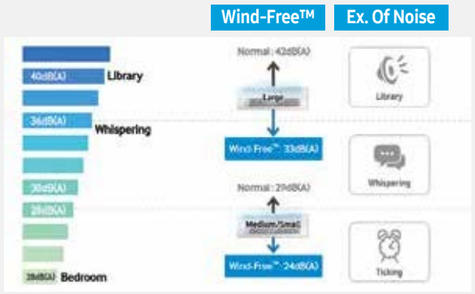
Even Cooling in All Area

Wind-Free™ Cooling keeps the temperature inside all evenly.



Quiet operation

Extremely quiet with Wind-Free™ operation.



※ Standard by National Noise information System

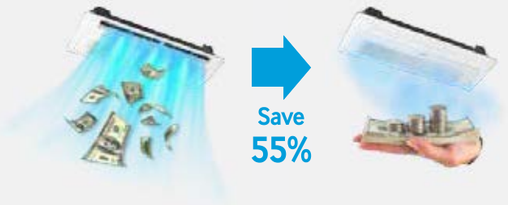
Wind-Free™ 1Way Cassette

Big Blade, Long Wind

Can deliver cool air up to 8m with wider operating angle, along with rapid and even cooling.

Energy saving

Wind-Free™ Cooling allows efficient energy saving up to 55%, while keeping the place comfortably cool.

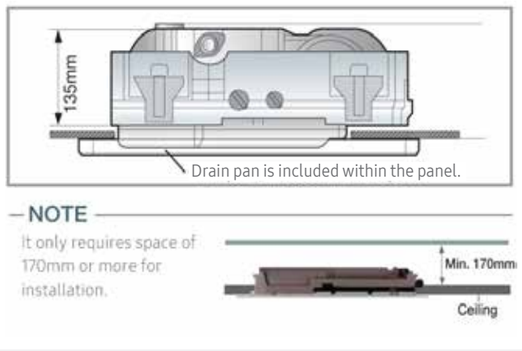


※ Test Condition
- ODU : DVM S ECO 5HP(AM050FXMDEH)
- IDU : Wind-Free™ 1Way 5.6kW(AM056NN1DEH), 3.6kW(AM036NN1DEH), 2.2kW(AM022NN1DEH) simultaneously running

※ Temperature
- OD 35°C DB / 24°C WB
- ID 27°C DB / 19°C WB

Ease installation and maintenance with a slim and compact design

At a height of only 135mm, the Slim 1Way Cassette is the world's thinnest indoor air cooling unit. The compact, lightweight design makes installation and maintenance in your space easier than ever. These high-performing units are so discreet that they can easily blend into interiors of all types and styles.



Wind-Free™ 1Way Cassette
Specifications

Type		Wind-Free 1Way Cassette	Wind-Free 1Way Cassette	Wind-Free 1Way Cassette
Model Code		AM017NN1PEH/TK	AM022NN1DEH/TK	AM022NN1PEH/TK
Power Supply [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode		HP/HR	HP/HR	HP/HR
Capacity	Cooling [kW]	1.70	2.20	2.20
	Cooling [Btu/h]	5,800	7,500	7,500
	Heating [kW]	1.90	2.50	2.50
	Heating [Btu/h]	6,500	8,500	8,500
Power Input	Cooling [W]	24.00	40.00	25.00
	Heating [W]	24.00	40.00	25.00
Fan	Motor (Output x n) [W]	27 x 1	17 x 1	27 x 1
	Air Flow Rate H/M/L [CMM]	4.80/4.30/4.10	6.00/5.00/4.00	5.10/4.60/4.30
Piping Connections	Liquid Pipe (Φ,mm)	6.35	6.35	6.35
	Gas Pipe (Φ,mm)	12.70	12.70	12.70
	Drain Pipe (Φ,mm)	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	28.0/26.0/24.0	29.0/26.0/24.0	29.0/26.0/24.0
	Sound Power [Cooling]	46.0	47.0	47.0
Dimensions	Net Weight [Kg]	8.00	10.00	8.00
	Net Dimensions (W×H×D) [mm]	740 x 135 x 360	970 x 135 x 410	740 x 135 x 360
Panel Size	Panel model	PC1MWSKAN	PC1NWSMAN	PC1MWSKAN
	Panel Net Weight [Kg]	2.60	5.50	2.60
	Net Dimensions (W×H×D) [mm]	900 x 25 x 420	1198 x 25 x 500	900 x 25 x 420

Type		Wind-Free 1Way Cassette	Wind-Free 1Way Cassette	Wind-Free 1Way Cassette	Wind-Free 1Way Cassette
Model Code		AM028NN1DEH/TK	AM036NN1DEH/TK	AM056NN1DEH/TK	AM071NN1DEH/TK
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
Mode		HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling [kW]	2.80	3.60	5.60	7.10
	Cooling [Btu/h]	9,600	12,300	19,100	24,200
	Heating [kW]	3.20	4.00	6.30	8.00
	Heating [Btu/h]	10,900	13,600	21,500	27,300
Power Input	Cooling [W]	45.00	50.00	55.00	80.00
	Heating [W]	45.00	50.00	55.00	80.00
Fan	Motor (Output x n) [W]	17 x 1	17 x 1	54 x 1	54 x 1
	Air Flow Rate H/M/L [CMM]	7.00/6.00/5.00	8.00/7.00/6.00	16.00/14.00/12.50	17.00/15.50/14.00
Piping Connections	Liquid Pipe (Φ,mm)	6.35	6.35	6.35	9.52
	Gas Pipe (Φ,mm)	12.70	12.70	12.70	15.88
	Drain Pipe (Φ,mm)	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)	VP20 (OD 25,ID 20)
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	32.0/28.0/24.0	37.0/33.0/30.0	41.0/38.0/35.0	42.0/39.0/36.0
	Sound Power [Cooling]	50.0	55.0	59.0	60.0
Dimensions	Net Weight [Kg]	10.00	10.00	13.50	13.50
	Net Dimensions (W×H×D) [mm]	970 x 135 x 410	970 x 135 x 410	1200 x 138 x 450	1200 x 138 x 450
Panel Size	Panel model	PC1NWSMAN	PC1NWSMAN	PC1BWFMAN	PC1BWFMAN
	Panel Net Weight [Kg]	5.50	5.50	5.00	5.00
	Net Dimensions (W×H×D) [mm]	1198 x 25 x 500	1198 x 25 x 500	1410 x 35 x 500	1410 x 35 x 500

2 Way Cassette
Exceptional operation and control

Create a pleasant atmosphere and maintain it effortlessly

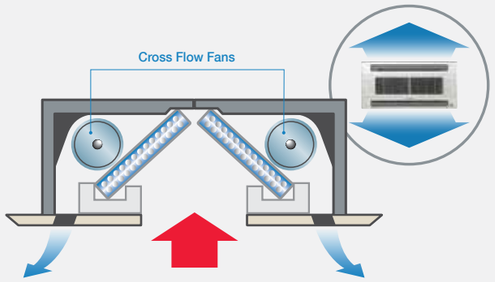
The slim build and smart operation of the Samsung 2Way Cassette make it easy to set the ideal indoor climate even in uniquely sized spaces. And maintaining such comfort levels is just as simple with optimum temperature control and self-diagnosis mode.

Long, narrow fit

With its slim and compact size, the 2Way Cassette indoor unit is just the right air solution for long, narrow places such as corridors and classrooms. This unit saves up to 26 percent more space when compared to conventional 4Way cassettes, and melds quietly into the interior design.

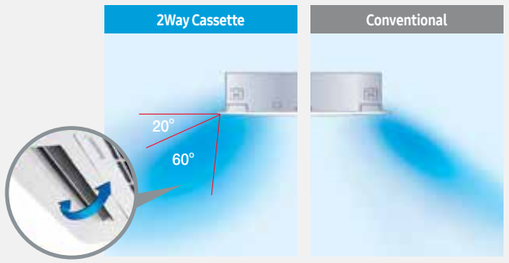
Broad coverage

The Twin Cross Flow Fan integrated into 2Way Cassette spreads cool or warm air farther and wider throughout rectangular spaces with less noise.



Even airflow distribution

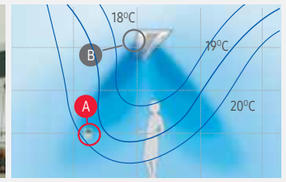
The 2Way Cassette blades swing right and left to evenly distribute cool and warm air to every nook and cranny of the interior, keeping the environment pleasant and comfortable.



Optimized temperature control

The Optimum Temperature Control function detects and minimizes temperature difference between the top and bottom of the space to maintain an ideal temperature. Users can set the temperature detection option on the indoor unit or with the optional remote controller (MWR-WE10*).

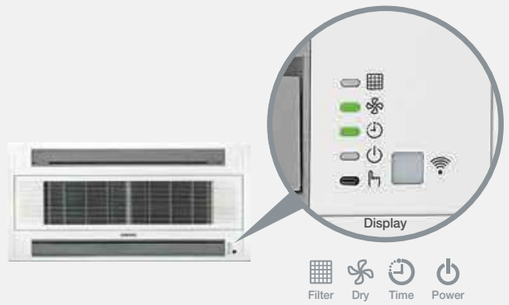
• (A): Temperature set by remote controller
• (B): Temperature set by indoor unit
• Average of (A+B): The average temperature



* The average temperature is set at 19°C

Self-diagnosis mode

In the event of a malfunction, the indoor unit operates the self-diagnosis mode to display an error code indicated by an LED light, enabling users to easily resolve the problem.



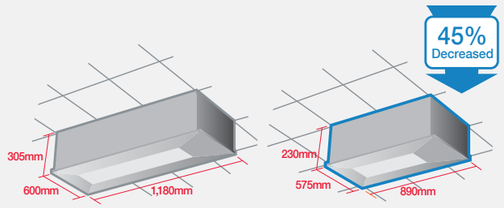
2 Way Cassette
Easy, flexible installation

Reduce the hassle of installation with a compact size and adaptable design

The modestly sized Samsung 2Way Cassette supports quick, simple setup for the ultimate in convenience, comfort and performance.

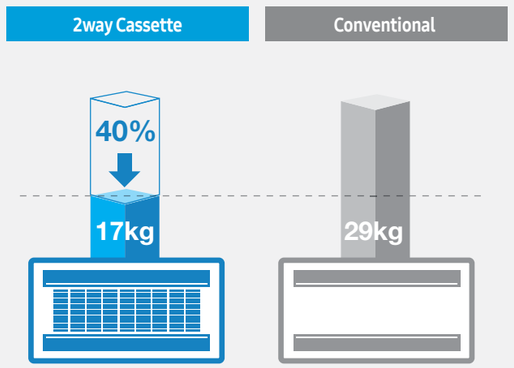
Small size, big performance

The 2 Way Cassette indoor unit is now 45 percent smaller than conventional models, making it even easier to incorporate into the building design.



Ultra-light weight

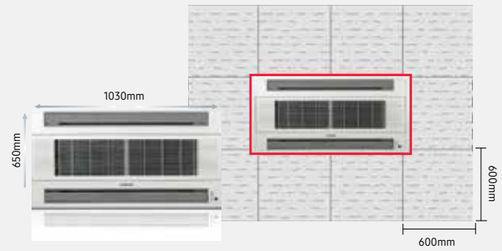
A slim and compact size reduces the setup space needed for easy installation and management.



Included Panel weight 5.6kW

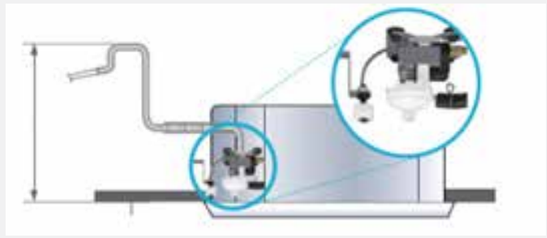
Standardized fit for easy installation

The 2Way Cassette unit dimensions allow for easy installation into standard ceiling grids (600W x 600D) for a tailored fit that blends nearly unnoticeably into the interior framework.



Simple, smart drainage structure

With 750 mm of discharge head, users can install the drain themselves, saving them time and costs.

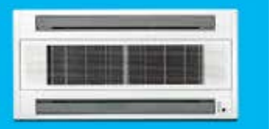


Advanced drain hose

Samsung's 2Way Cassette system air conditioner uses an advanced drain hose, which is recognized in Europe for its easy installation and leak prevention.

2 Way Cassette

Specifications



Model Code		AM056FN2DEH/TK	AM071FN2DEH/TK
Features	Type	2 Way CASSETTE (50Hz)	2 Way CASSETTE (50Hz)
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	5.60	7.10
	Cooling 2) [Btu/h]	19,100	24,200
	Heating 2) [kW]	6.30	8.00
	Heating 2) [Btu/h]	21,500	27,300
Power Input (Nominal)	Cooling 1) [W]	70.00	75.00
	Heating 2) [W]	70.00	75.00
Fan	Motor (Output) [W]	14 x 2	14 x 2
	Air Flow Rate (High / Mid / Low) [CMM]	14.00/13.00/12.00	15.00/14.00/13.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	6.35 (1/4")	9.52 (3/8")
	Gas Pipe (Φ,mm, inch)	12.70 (1/2")	15.88 (5/8")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	38.0/37.0/35.0	41.0/39.0/37.0
	Sound Power	62.0	65.0
External Dimension (Indoor Unit)	Net Weight (kg)	21.00	22.00
	Net Dimensions (WxHxD) (mm)	890 x 230 x 575	890 x 230 x 575
Panel Size	Panel Model	PC2NUSMEN	
	Panel Net Weight (kg)	4.00	
	Net Dimensions (WxHxD) (mm)	1030 x 25 x 650	

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish)

MWR-SH10N, MWR-SH10RN (Turkish)

MWR-SH00N

MR-EH00, MR-EH00R (Turkish)

Panel (Optional)

PC2NUSMEN

HSP Duct

Robust, high-pressure control

Control the atmosphere effortlessly with robust, adaptable performance

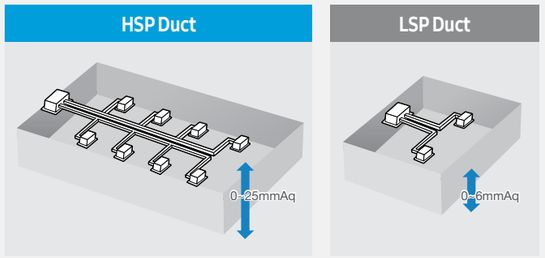
With the capacity to handle high external static pressure up to 28 mmAq, the powerful Samsung HSP Duct provides an expansive coverage area with outstanding cooling and heating performance. HSP Duct is an ideal fit for spaces with high ceilings and can be flexibly installed to suit various environments.

Split fan and coil

Products that are difficult to install are often challenging to use as well. Considering users' product experience from start to finish, Samsung separated the Duct S (AC6000) into two parts, coil and fan, for easier installation and management. When users experience difficulty handling the product due to space limitations or weight, they can install the parts separately and then put them back together as one unit.

Silent operation

The external static pressure control makes it easy to customise the ductwork to ensure efficiency and silent operation.



HSP Duct

Specifications

Model Code		AM112FNHDEH/TK	AM128FNHDEH/TK
Features	Type	HSP DUCT	HSP DUCT
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	11.20	12.80
	Cooling 2) [Btu/h]	38,200	43,700
	Heating 2) [kW]	12.50	13.80
	Heating 2) [Btu/h]	42,700	47,100
Power Input (Nominal)	Cooling 1) [W]	305.00	333.00
	Heating 2) [W]	305.00	333.00
Fan	Motor (Output) [W]	183 x 2	183 x 2
	Air Flow Rate (High / Mid / Low) [CMM]	32.00/27.00/23.00	35.00/31.00/28.00
	External Pressure (Min / Std / Max) [mmAq]	5.00/10.00/20.00	5.00/10.00/20.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	9.52 (3/8")	9.52 (3/8")
	Gas Pipe (Φ,mm, inch)	15.88 (5/8")	15.88 (5/8")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	43.0/41.0/39.0	45.0/43.0/42.0
	Sound Power (Cooling) [dB(A)]	72.0	74.0
External Dimension (Indoor Unit)	Net Weight (kg)	62.00	62.00
	Net Dimensions (WxHxD) (mm)	1200 x 360 x 650	1200 x 360 x 650
Additional Accessories	Drain pump (Optional)	MDP-M075SGU2D	MDP-M075SGU2D

Model Code		AM140FNHDEH/TK	AM180JNHPKH/TK	AM224JNHPKH/TK	AM280FNHDEH/TK
Features	Type	HSP DUCT	HSP DUCT	HSP DUCT	HSP DUCT
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	14.00	18.00	22.40	28.00
	Cooling 2) [Btu/h]	47,800	61,400	76,400	95,500
	Heating 2) [kW]	16.00	20.00	25.00	31.50
	Heating 2) [Btu/h]	54,600	68,200	85,300	107,500
Power Input (Nominal)	Cooling 1) [W]	385.00	340.00	530.00	790.00
	Heating 2) [W]	385.00	340.00	530.00	790.00
Fan	Motor (Output) [W]	183 x 2	630 x 1	630 x 1	400 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	39.00/33.00/28.00	58.00/50.00/43.00	72.00/61.00/50.00	72.00/65.00/58.00
	External Pressure (Min / Std / Max) [mmAq]	5.00/10.00/20.00	5.00/7.34/20.00	5.00/7.34/20.00	5.00/15.00/28.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Gas Pipe (Φ,mm, inch)	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	22.22 (7/8")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	46.0/45.0/44.0	43.0/39.0/35.0	44.0/40.0/36.0	48.0/46.0/43.0
	Sound Power (Cooling) [dB(A)]	75.0	80.0	81.0	79.0
External Dimension (Indoor Unit)	Net Weight (kg)	62.00	82.50	82.50	89.00
	Net Dimensions (WxHxD) (mm)	1200 x 360 x 650	1350 x 450 x 910	1350 x 450 x 910	1240 x 470 x 1040
Additional Accessories	Drain pump (Optional)	MDP-M075SGU2D	MDP-G075SP	MDP-G075SP	MDP-N047SNC1D

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish) | MWR-SH10N, MWR-SH10RN (Turkish) | MWR-SH00N | MR-EH00, MR-EH00R (Turkish) | MRK-A10N

Drain Pump (Optional)

MDP-G075SP (External Type) | MDP-G075SQ (Internal Type) | MDP-N047SNC1D | MDP-M075SGU2D

MSP Duct

Silent, strong performance

Deliver increased airflow to broader areas with quiet, powerful cooling and heating

Concealed behind the ceiling, Samsung MSP Duct provides powerful yet silent operation with external static pressure control. Its exceptional static pressure enables a broad coverage area and provides stable, efficient performance in larger spaces.

Quiet performance

The external static pressure control makes it easy to customise the ductwork to ensure efficiency and silent operation.

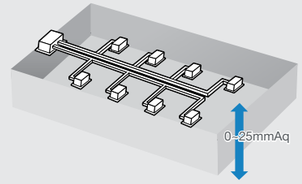
Easy upkeep and installation

The MSP Duct unit features quickly accessible parts so users can maintain the unit with ease. And its compact size and narrow width of 900mm enable flexible installation and management for added user convenience.

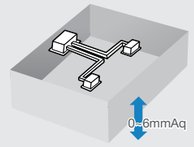
Extensive coverage

MSP Duct offers greater static pressure than most LSP Ducts. This higher pressure level enables users to design more inlets and outlets with longer ductwork to provide even more airflow to larger areas.

MSP Duct



LSP Duct



MSP Duct
Specifications

Model Code		AM022FNMDEH/TK	AM028FNMDEH/TK	AM036FNMDEH/TK	AM045FNMDEH/TK	AM056FNMDEH/TK
Model Code (Built-in drain pump)		AM022KNMDEH/TK	AM028KNMDEH/TK	AM036KNMDEH/TK	AM045KNMDEH/TK	AM056KNMDEH/TK
Features	Type	MSP DUCT	MSP DUCT	MSP DUCT	MSP DUCT	MSP DUCT
Power Supply (Indoor Unit) [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
System	Mode	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	2.20	2.80	3.60	4.50	5.60
	Cooling 2) [Btu/h]	7,500	9,600	12,300	15,400	19,100
	Heating 2) [kW]	2.50	3.20	4.00	5.00	6.30
	Heating 2) [Btu/h]	8,500	10,900	13,600	17,100	21,500
Power Input (Nominal)	Cooling 1) [W]	80.00	80.00	85.00	125.00	130.00
	Heating 2) [W]	80.00	80.00	85.00	125.00	130.00
Fan	Motor (Output) [W]	69 x 1	69 x 1	112 x 1	219 x 1	124 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	8.50/7.50/6.30	10.00/9.20/7.50	12.00/10.20/8.80	14.00/12.00/10.50	14.50/13.00/11.50
	External Pressure (Min / Std / Max) [mmAq]	0.00/2.00/6.00	0.00/2.00/6.00	0.00/2.00/6.00	0.00/4.00/8.00	0.00/4.00/8.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
	Gas Pipe (Φ,mm, inch)	12.70 (1/2")	12.70 (1/2")	12.70 (1/2")	12.70 (1/2")	12.70 (1/2")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	23.0/21.0/19.0	24.0/22.0/19.0	29.0/27.0/24.0	32.0/30.0/28.0	35.0/33.0/31.0
	Sound Power (Cooling) [dB(A)]	47.0	48.0	60.0	63.0	66.0
External Dimension (Indoor Unit)	Net Weight (kg)	23.50	23.50	23.50	29.00	29.00
	Net Dimensions (WxHxD) (mm)	900 x 199 x 600	900 x 199 x 600	900 x 199 x 600	900 x 260 x 480	900 x 260 x 480
Additional Accessories	Drain pump (Optional)	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-M075SGU3D	MDP-M075SGU3D

Model Code		AM071FNMDEH/TK	AM090FNMDEH/TK	AM112FNMDEH/TK	AM128FNMDEH/TK	AM140FNMDEH/TK	AM160KNMDEH/TK
Model Code (Built-in drain pump)		AM071KNMDEH/TK	AM090KNMDEH/TK	AM112KNMDEH/TK	AM128KNMDEH/TK	AM140KNMDEH/TK	AM160KNMDEH1TK
Features	Type	MSP DUCT	MSP DUCT	MSP DUCT	MSP DUCT	MSP DUCT	MSP DUCT
Power Supply (Indoor Unit) [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	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	7.10	9.00	11.20	12.80	14.00	16.00
	Cooling 2) [Btu/h]	24,200	30,700	38,200	43,700	47,800	54,600
	Heating 2) [kW]	8.00	10.00	12.50	13.80	16.00	18.00
	Heating 2) [Btu/h]	27,300	34,100	42,700	47,100	54,600	61,400
Power Input (Nominal)	Cooling 1) [W]	190.00	240.00	260.00	370.00	410.00	485.00
	Heating 2) [W]	190.00	240.00	260.00	370.00	410.00	485.00
Fan	Motor (Output) [W]	124 x 1	130 x 1	130 x 1	218 x 1	218 x 1	370 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	18.50/17.00/15.50	19.50/18.00/16.50	27.00/25.00/23.00	32.00/30.00/28.00	37.00/34.00/31.00	43.00/38.00/30.50
	External Pressure (Min / Std / Max) [mmAq]	0.00/4.00/8.00	4.00/6.00/8.00	4.00/8.00/12.00	4.00/8.00/14.00	4.00/8.00/14.00	4.00/8.00/14.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52
	Gas Pipe (Φ,mm, inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	39.0/35.0/31.0	40.0/37.0/34.0	41.0/40.0/38.0	41.0/40.0/38.0	42.0/39.0/36.0	43.0/40.0/36.0
	Sound Power (Cooling) [dB(A)]	71.0	71.0	72.0	72.0	73.0	69.0
External Dimension (Indoor Unit)	Net Weight (kg)	29.00	34.00	36.00	52.00	52.00	-
	Net Dimensions (WxHxD) (mm)	900 x 260 x 480	1150 x 260 x 480	1150 x 320 x 480	1200 x 360 x 650	1200 x 360 x 650	1200 x 360 x 650
Additional Accessories	Drain pump (Optional)	MDP-M075SGU3D	MDP-M075SGU1D	MDP-M075SGU1D	MDP-M075SGU2D	MDP-M075SGU2D	MDP-M075SGU2D

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish) · MWR-SH10N, MWR-SH10RN (Turkish) · MWR-SH00N · MR-EH00, MR-EH00R (Turkish) · MRK-A10N

Drain Pump (Optional)

MDP-E075SEE3D
MDP-M075SGU1D
MDP-M075SGU2D
MDP-M075SGU3D

LSP Duct
Ultra-light, adaptable design

Temper any environment with industry-best lightweight design and optimised airflow

The new Samsung LSP Duct visually blends into the ceiling while providing powerful cool and warm airflow. It's also easy to install and maintain in any interior regardless of the surrounding environment with its compact size and weight—the lightest in the industry.

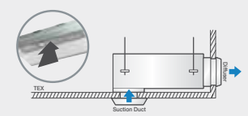
Various installation options

LSP Duct adopts an ultra-compact and slim size with its thin width, which is 200mm narrower than conventional products. This slender build enables flexible installation and maintenance in various environments.

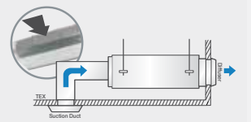
Flexible setup

The air inlet can be set up either on the bottom or rear of the unit, giving users greater flexibility in installation.

Rear Side Air Inlet



Bottom Side Air Inlet



LSP Duct
Specifications

Model Code		AM022FNLDEH/TK	AM028FNLDEH/TK	AM036FNLDEH/TK	AM045FNLDEH/TK
Model Code (Built-in drain pump)		-	-	-	AM045KNLDEH/TK
Features	Type	LSP Duct	LSP Duct	LSP Duct	LSP Duct
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	2.20	2.80	3.60	4.50
	Cooling 2) [Btu/h]	7,500	9,600	12,300	15,400
	Heating 2) [kW]	2.50	3.20	4.00	5.00
	Heating 2) [Btu/h]	8,500	10,900	13,600	17,100
Power Input (Nominal)	Cooling 1) [W]	55.00	60.00	65.00	90.00
	Heating 2) [W]	55.00	60.00	65.00	90.00
Fan	Air Flow Rate (High / Mid / Low) [CMM]	7.00/6.10/5.30	7.50/6.60/5.60	7.50/6.60/5.60	11.00/9.60/8.30
	External Pressure (Min / Std / Max) [mmAq]	0.00/1.00/3.00	0.00/1.00/3.00	0.00/1.00/3.00	0.00/2.00/4.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
	Gas Pipe (Φ,mm, inch)	12.70 (1/2")	12.70 (1/2")	12.70 (1/2")	12.70 (1/2")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	26.0/24.0/21.0	28.0/26.0/23.0	32.0/30.0/27.0	35.0/31.0/26.0
	Sound Power (Cooling) [dB(A)]	49.0	49.0	51.0	53.0
External Dimension (Indoor Unit)	Net Weight (kg)	19.00	19.00	19.50	23.50
	Net Dimensions (WxHxD) (mm)	700 x 199 x 600	700 x 199 x 600	700 x 199 x 600	900 x 199 x 600
Additional Accessories	Drain pump (Optional)	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D

Model Code		AM056FNLDEH/TK	AM071FNLDEH/TK	AM090FNLDEH/TK	AM112FNLDEH/TK	AM128FNLDEH/TK	AM140FNLDEH/TK
Model Code (Built-in drain pump)		AM056KNLDEH/TK	AM071KNLDEH/TK	AM090KNLDEH/TK	AM112KNLDEH/TK	AM128KNLDEH/TK	AM140KNLDEH/TK
Features	Type	LSP Duct	LSP Duct	LSP Duct	LSP Duct	LSP Duct	LSP Duct
Power Supply (Indoor Unit) [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	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	5.60	7.10	9.00	11.20	12.80	14.00
	Cooling 2) [Btu/h]	19,100	24,200	30,700	38,200	43,700	47,800
	Heating 2) [kW]	6.30	8.00	10.00	12.50	13.80	16.00
	Heating 2) [Btu/h]	21,500	27,300	34,100	42,700	47,100	54,600
Power Input (Nominal)	Cooling 1) [W]	95.00	120.00	170.00	170.00	200.00	220.00
	Heating 2) [W]	95.00	120.00	170.00	170.00	200.00	220.00
Fan	Air Flow Rate (High / Mid / Low) [CMM]	12.00/10.50/9.00	16.50/15.00/13.50	29.00/27.00/25.00	31.20/29.00/27.00	34.00/32.00/30.00	36.00/34.00/32.00
	External Pressure (Min / Std / Max) [mmAq]	0.00/2.00/4.00	0.00/2.00/4.00	0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Gas Pipe (Φ,mm, inch)	12.70 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	36.0/34.0/31.0	38.0/36.0/33.0	37.0/36.0/34.0	37.0/36.0/34.0	37.0/36.0/34.0	39.0/38.0/36.0
	Sound Power (Cooling) [dB(A)]	55.0	57.0	66.0	66.0	66.0	68.0
External Dimension (Indoor Unit)	Net Weight (kg)	23.50	30.00	44.00	44.00	46.00	46.00
	Net Dimensions (WxHxD) (mm)	900 x 199 x 600	1100 x 199 x 600	1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690
Additional Accessories	Drain pump (Optional)	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish)

MWR-SH10N, MWR-SH10RN (Turkish)

MWR-SH00N

MR-EH00, MR-EH00R (Turkish)

MRK-A10N

Drain Pump (Optional)

MDP-E075SEE3D

OAP (Outdoor Air Processing) Duct
100% fresh treated air supply

Conserve energy and costs with practical, high-powered operation

Samsung's new Outdoor Air Processing Duct is an outdoor fresh air treatment unit with integrated ventilation, combining fresh air processing and air conditioning via a single system.

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 with considerably less energy consumption.

High-efficiency motor

The BLDC motor supports the highest efficiency level possible. Its low-consumption design saves up to 32 percent more energy than conventional products for more economical and practical operation.

Full-range temperature processing

Samsung Outdoor Air Processing Duct supplies fresh air to the interior environment by cold or heat processing a wide spectrum of outside temperatures ranging from -5°C to 52°C.

Flexible installation

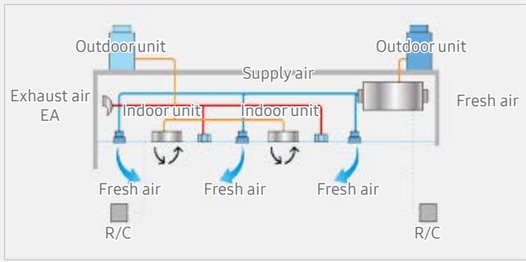
This light and compact unit, with its shorter height of 390mm, enables users to conveniently install and manage it in a variety of areas with a host of installation options.

Quiet operation

Equipped with the proficient BLDC motor, Outdoor Air Processing Duct operates quietly with a sound level as low as 42 dB, slightly higher than that of a library. Such distraction-free operation ensures optimum comfort and calm for any environment.

Flexible static pressure control

If the installation area of the duct exceeds the standard, then the static pressure control system maintains the optimised air volume by adjusting the fan speed.



O.A.P Duct
Specifications

Model Code		AM140HNEPEH/TK	AM220HNEPEH/TK	AM280HNEPEH/TK
Features	Type	OAP Duct	OAP Duct	OAP Duct
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	14.00	22.40	28.00
	Cooling 2) [Btu/h]	47,800	76,400	95,500
	Heating 2) [kW]	8.90	13.90	17.40
	Heating 2) [Btu/h]	30,400	47,400	59,400
Power Input (Nominal)	Cooling 1) [W]	220.00	300.00	370.00
	Heating 2) [W]	220.00	300.00	370.00
Fan	Motor (Output) [W]	183 x 1	400 x 1	400 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	18.00/-/-	28.00/-/-	35.00/-/-
	External Pressure (Min / Std / Max) [mmAq]	5.00/20.39/25.00	10.00/23.45/25.00	10.00/25.49/27.50
Piping Connections	Liquid Pipe (Φ,mm, inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Gas Pipe (Φ,mm, inch)	15.88 (5/8")	19.05 (3/4")	22.22 (7/8")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	42.0/-/-	46.0/-/-	47.0/-/-
	Sound Power (Cooling) [dB(A)]	65.0	66.0	69.0
External Dimension (Indoor Unit)	Net Weight (kg)	51.00	85.00	85.00
	Net Dimensions (WxHxD) (mm)	1110 x 390 x 650	1240 x 470 x 1040	1240 x 470 x 1040
Additional Accessories	Drain pump (Optional)	MDP-N047SNC0D	MDP-N047SNC1D	MDP-N047SNC1D

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish) | MWR-SH10N, MWR-SH10RN (Turkish) | MWR-SH00N | MR-EH00, MR-EH00R (Turkish) | MRK-A10N

Drain Pump (Optional)

MDP-N047SNC0D
MDP-N047SNC1D

O.A.P Duct
Specifications

Model Code		AM140HNEPEH/TK	AM220HNEPEH/TK	AM280HNEPEH/TK
Features	Type	OAP Duct	OAP Duct	OAP Duct
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	14.00	22.40	28.00
	Cooling 2) [Btu/h]	47,800	76,400	95,500
	Heating 2) [kW]	8.90	13.90	17.40
	Heating 2) [Btu/h]	30,400	47,400	59,400
Power Input (Nominal)	Cooling 1) [W]	220.00	300.00	370.00
	Heating 2) [W]	220.00	300.00	370.00
Fan	Motor (Output) [W]	183 x 1	400 x 1	400 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	18.00/-/-	28.00/-/-	35.00/-/-
	External Pressure (Min / Std / Max) [mmAq]	5.00/20.39/25.00	10.00/23.45/25.00	10.00/25.49/27.50
Piping Connections	Liquid Pipe (Φ,mm, inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Gas Pipe (Φ,mm, inch)	15.88 (5/8")	19.05 (3/4")	22.22 (7/8")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	42.0/-/-	46.0/-/-	47.0/-/-
	Sound Power (Cooling) [dB(A)]	65.0	66.0	69.0
External Dimension (Indoor Unit)	Net Weight (kg)	51.00	85.00	85.00
	Net Dimensions (WxHxD) (mm)	1110 x 390 x 650	1240 x 470 x 1040	1240 x 470 x 1040
Additional Accessories	Drain pump (Optional)	MDP-N047SNC0D	MDP-N047SNC1D	MDP-N047SNC1D

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish) | MWR-SH10N, MWR-SH10RN (Turkish) | MWR-SH00N | MR-EH00, MR-EH00R (Turkish) | MRK-A10N

Drain Pump (Optional)

MDP-N047SNC0D
MDP-N047SNC1D

Wall Mounted (AR5000 Series)

Triangular design, powerful cooling

Cool every corner of the room with a unique, efficiency-boosting design

Samsung AR9000, 7000, 5000 Series units are designed with efficiency in mind. Their uniquely triangular design improves performance to circulate cool and clean air throughout every inch of the room. In addition, their smart design includes easy-to-remove filters for easy management and healthier airflow.

Easy-access maintenance

Unlike conventional filters that are often difficult to access, the Samsung wall-mounted unit filter is on the outside, at the top of the device. Easy access means users can take out the filter, clean it and put it back without having to open a cover or pull hard to get it out. And its antibacterial coating filters out dust and dangerous airborne contaminants and allergens for healthier breathing.

Faster and farther cooling performance

The units' distinctive triangular design has a wider intake, so more air can be drawn in. The improved width and angle of the outlet, extra v-blades and bigger fan also ensure that air is cooled and expelled 26% faster and 14m farther than conventional model. The result is refreshingly cool air that reaches every corner of the room—with no blind spots. Their Smart Inverter also provides significantly greater energy efficiency.

Wall Mounted (AR5000, EEV included)

Specifications

Model Code		AM015JNVDKH/TK	AM022JNVDKH/TK	AM028JNVDKH/TK	AM036JNVDKH/TK
Features	Type	AR5000	AR5000	AR5000	AR5000
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	1.50	2.20	2.80	3.60
	Cooling 2) [Btu/h]	5,100	7,500	9,600	12,300
	Heating 2) [kW]	1.70	2.50	3.20	4.00
	Heating 2) [Btu/h]	5,800	8,500	10,900	13,600
Power Input (Nominal)	Cooling 1) [W]	14.00	15.00	16.00	20.00
	Heating 2) [W]	16.00	18.00	24.00	28.00
Fan	Motor (Output) [W]	27 x 1	27 x 1	27 x 1	27 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	4.40/4.20/3.80	5.40/4.70/4.00	5.70/5.00/4.30	7.10/5.70/4.60
Piping Connections	Liquid Pipe (Φ,mm, inch)	6.35	6.35	6.35	6.35
	Gas Pipe (Φ,mm, inch)	12.70	12.70	12.70	12.70
	Drain Pipe (Φ,mm)	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	28.0/25.0/24.0	33.0/29.0/25.0	36.0/31.0/25.0	37.0/34.0/30.0
	Sound Power (Cooling) [dB(A)]	44.0	50.0	53.0	54.0
External Dimension (Indoor Unit)	Net Weight (kg)	7.90	7.90	8.00	9.60
	Net Dimensions (WxHxD) (mm)	750 x 249 x 246	750 x 249 x 246	750 x 249 x 246	826 x 261 x 261

Model Code		AM045JNVDKH/TK	AM056JNVDKH/TK	AM071JNVDKH/TK	AM082JNVDKH/TK
Features	Type	AR5000	AR5000	AR5000	AR5000
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	4.50	5.60	7.10	8.20
	Cooling 2) [Btu/h]	15,400	19,100	24,200	28,000
	Heating 2) [kW]	5.00	6.30	8.00	8.50
	Heating 2) [Btu/h]	17,100	21,500	27,300	29,000
Power Input (Nominal)	Cooling 1) [W]	31.00	27.00	41.00	55.00
	Heating 2) [W]	41.00	37.00	53.00	72.00
Fan	Motor (Output) [W]	27 x 1	27 x 1	27 x 1	27 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	8.90/7.50/6.00	11.80/10.00/8.20	14.80/12.40/10.00	16.70/14.30/12.40
Piping Connections	Liquid Pipe (Φ,mm, inch)	6.35	6.35	9.52	9.52
	Gas Pipe (Φ,mm, inch)	12.70	12.70	15.88	15.88
	Drain Pipe (Φ,mm)	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	41.0/38.0/34.0	39.0/36.0/33.0	44.0/41.0/36.0	47.0/43.0/40.0
	Sound Power (Cooling) [dB(A)]	57.0	57.0	61.0	65.0
External Dimension (Indoor Unit)	Net Weight (kg)	9.60	14.50	14.50	14.50
	Net Dimensions (WxHxD) (mm)	826 x 261 x 261	1065 x 301 x 294	1065 x 301 x 294	1065 x 301 x 294

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish)

MWR-SH10N, MWR-SH10RN (Turkish)

MWR-SH00N

Wireless Remote Controller

MR-EH00 , MR-EH00R
EU (Default) TK (Optional)

Wall Mounted (Boracay)

Fast cooling, faster comfort

Fast Cooling Mode cools the room 16% faster than General mode*

Running the compressor at the maximum level with the fastest fan speed for 30 minutes provides relief from the sweltering heat outside.

Enjoy a good night's sleep

Good Sleep mode creates the desirable climate for a good night's sleep. With its temperature control and moisture adjustment it may help you feel comfortable during your sleep.

Wall Mounted (Boracay)

Specifications

Model Code		AM022KNTDEH/TK	AM028KNTDEH/TK	AM036KNTDEH/TK	AM045KNTDEH/TK	AM056KNTDEH/TK	AM071KNTDEH/TK
Features	Type	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted
Power Supply (Indoor Unit) [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	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling[kW]	2.2	2.81	3.6	4.51	5.6	6.8
	Cooling[Btu/h]	7,500	9,600	12,300	15,400	19,100	23,200
	Heating[kW]	2.49	3.19	3.99	5.01	6.3	7
	Heating[Btu/h]	8,500	10,900	13,600	17,100	21,500	23,900
Power Input (Nominal)	Cooling[W]	32	38	42	47	48	51
	Heating[W]	35	39	42	47	48	53
Fan	Type	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Air Flow Rate[H/M/L (CMM)]	6.60/5.70/5.10	7.00/6.20/5.50	8.50/7.50/6.60	13.90/12.40/11.20	14.40/12.90/11.20	15.70/14.10/12.90
Piping Connections	Liquid Pipe[Φ,mm,inch]	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")	9.52(3/8")
	Gas Pipe [Φ,mm,inch]	12.70(1/2")	12.70(1/2")	12.70(1/2")	12.70(1/2")	12.70(1/2")	15.88(5/8")
	Drain Pipe [Φ,mm]	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Refrigerant	Control Method	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	31.0/28.0/25.0	31.0/29.0/26.0	36.0/33.0/29.0	38.0/35.0/33.0	39.0/36.0/33.0	40.0/38.0/35.0
External Dimension (Indoor Unit)	Net Weight (kg)	8	8.5	8.5	12	12	12
	Net Dimensions (W×H×D) (mm)	820 x 285 x 227	820 x 285 x 227	820 x 285 x 227	1065 x 298 x 243	1065 x 298 x 243	1065 x 298 x 243

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish)

MWR-SH10N, MWR-SH10RN (Turkish)

MWR-SH00N

Wireless Remote Controller

MR-EH00, EU, TR (Optional)

MR-EH00R TK (Default)

Wall Mounted (Boracay, EEV included)

Specifications

Model Code		AM022KNQDEH/TK	AM028KNQDEH/TK	AM036KNQDEH/TK	AM045KNQDEH/TK	AM056KNQDEH/TK	AM071KNQDEH/TK	AM093MNQDEH/TK
Features	Type	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted
Power Supply (Indoor Unit) [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	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling[kW]	2.2	2.81	3.6	4.51	5.6	6.8	9.3
	Cooling[Btu/h]	7,500	9,600	12,300	15,400	19,100	23,200	31,700
	Heating[kW]	2.49	3.19	3.99	5.01	6.3	7	9.8
	Heating[Btu/h]	8,500	10,900	13,600	17,100	21,500	23,900	33,400
Power Input (Nominal)	Cooling[W]	32	38	42	47	48	51	66
	Heating[W]	35	39	42	47	48	53	76
Fan	Type	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Air Flow Rate[H/M/L (CMM)]	6.60/5.70/5.10	7.00/6.20/5.50	8.50/7.50/6.60	13.90/12.40/11.20	14.40/12.90/11.20	15.70/14.10/12.90	23 / 20 / 17
Piping Connections	Liquid Pipe[Φ,mm,inch]	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")	6.35(1/4")	9.52(3/8")	9.52(3/8")
	Gas Pipe [Φ,mm,inch]	12.70(1/2")	12.70(1/2")	12.70(1/2")	12.70(1/2")	12.70(1/2")	15.88(5/8")	15.88(5/8")
	Drain Pipe [Φ,mm]	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	31.0/28.0/25.0	31.0/29.0/26.0	36.0/33.0/29.0	38.0/35.0/33.0	39.0/36.0/33.0	40.0/38.0/35.0	49/46/43
External Dimension (Indoor Unit)	Net Weight (kg)	8.5	9	9	12.5	12.5	12.5	19
	Net Dimensions (W×H×D) (mm)	820 x 285 x 227	820 x 285 x 227	820 x 285 x 227	1065 x 298 x 243	1065 x 298 x 243	1065 x 298 x 243	1279 x 345 x 229

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish)

MWR-SH10N, MWR-SH10RN (Turkish)

MWR-SH00N

Wireless Remote Controller

MR-EH00, EU, TR (Optional)

MR-EH00R TK (Default)

Console

Luxurious style and calm

Create an exquisite interior complemented by elegant design and quiet performance

The slim, elegant Samsung Console Type indoor unit is designed to perfectly fit spaces with high ceilings and numerous windows while maintaining an optimal indoor temperature. Samsung's console air conditioning solution makes any environment more pleasant and comfortable with features such as:

Two-way airflow

Featuring a 2 Way air outlet, Samsung's console unit includes two separate air outlets for cooling and heating. The warmer air comes out from the bottom part of the air outlet to spread the warm air evenly throughout the room. Users stay cooler or warmer in every corner of the room.

Slim and low-profile design

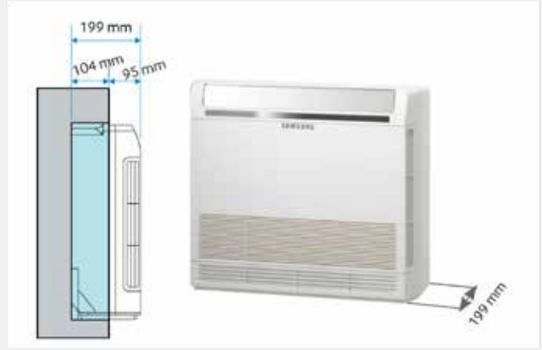
Samsung's console type air conditioner is only 199mm thick, the slimmest on the market, and its unobtrusive design easily integrates into any décor.

Stay-clean panel

The intelligently designed clean panel keeps dust from accumulating, so the unit and the room stay cleaner.

Sophisticated control

The touchscreen display delivers convenient control, and is an elegant example of functional art.



Console
Specifications

Model Code		AM022KNJDEH/TK	AM028FNJDEH/TK
Features	Type	CONSOLE	CONSOLE
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	2.20	2.80
	Cooling 2) [Btu/h]	7,500	9,600
	Heating 2) [kW]	2.50	3.20
	Heating 2) [Btu/h]	8,500	10,900
Power Input (Nominal)	Cooling 1) [W]	16.00	30.00
	Heating 2) [W]	16.00	30.00
Fan	Motor (Output) [W]	37 x 1	37 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	6.30/5.40/4.90	7.00/6.00/5.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	6.35	6.35
	Gas Pipe (Φ,mm, inch)	12.70	12.70
	Drain Pipe (Φ,mm)	ID 18 HOSE	ID 18 HOSE
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	34.0/32.0/30.0	38.0/36.0/34.0
External Dimension (Indoor Unit)	Net Weight (kg)	15.50	16.00
	Net Dimensions (WxHxD) (mm)	720 x 620 x 199	720 x 620 x 199

Model Code		AM036FNJDEH/TK	AM045KNJDEH/TK	AM056FNJDEH/TK
Features	Type	CONSOLE	CONSOLE	CONSOLE
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	3.60	4.50	5.60
	Cooling 2) [Btu/h]	12,300	15,400	19,100
	Heating 2) [kW]	4.00	5.00	6.30
	Heating 2) [Btu/h]	13,600	17,100	21,500
Power Input (Nominal)	Cooling 1) [W]	35.00	36.00	62.00
	Heating 2) [W]	35.00	36.00	62.00
Fan	Motor (Output) [W]	37 x 1	37 x 1	37 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	8.50/7.50/6.50	11.30/9.80/8.20	13.00/11.50/10.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	6.35	6.35	6.35
	Gas Pipe (Φ,mm, inch)	12.70	12.70	12.70
	Drain Pipe (Φ,mm)	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	39.0/37.0/34.0	42.0/39.0/36.0	43.0/40.0/37.0
External Dimension (Indoor Unit)	Net Weight (kg)	16.00	16.00	16.00
	Net Dimensions (WxHxD) (mm)	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish) MWR-SH10N, MWR-SH10RN (Turkish) MWR-SH00N

Wireless Remote Controller

MR-EH00R TK (Optional, Turkish)

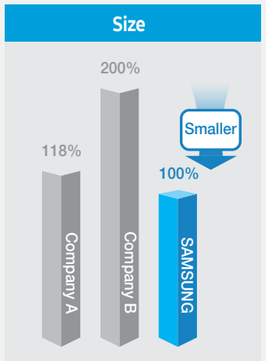
Ceiling
Slim yet functional design

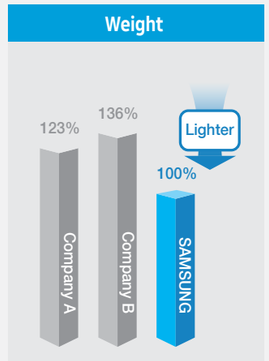
Distribute refreshing airflow where needed with a compact, flexible design

Samsung's Ceiling Type indoor unit has 2-way installation options for the ceiling and floor, enabling more efficient use of available space. Users can enjoy crisp and powerful air throughout their space from the compact unit in the ceiling or floor.

Small package, big performance

The Samsung Ceiling Type air conditioner boasts a slim, compact design—half the size of conventional products—with cooling power comparable to larger units.





7.1kW Model

Fast cooling, 15m air flow

When users need air conditioning, they need it quickly. While the Ceiling uses latest flow-efficient blowers to increase amount of air it discharges, it also mounts a single BLDC motor to reduce noises and possibilities of abrupt changes of modes. With increased size of inlet area and fluid dynamically designed inner passages, customers can experience incomparable cooling power.

Choice of installation options

Depending on the available space and the purpose of the air conditioner, the indoor unit can be installed behind the ceiling or on the floor.

Also, with the advanced blade, which can move from 4° to 45°, Samsung ceiling type can refreshingly cool air that reaches every corner of the room with no blind spots.

Simple display

The simple display design with its rounded corners adds a neat and tidy feeling to your interior.

- Ice Blue : Operating
- Yellow Green : Schedule
- Red : Error
- Orange : Filter Alarm

Time Limit + Operating Pattern

Ceiling
Specifications

Type		CEILING	CEILING	CEILING	CEILING
Model Code		AM056FNCDEH/TK	AM071FNCDEH/TK	AM112JNCDKH/TK	AM140JNCDKH/TK
Power Supply [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50/60	1,2,220-240,50/60
Mode		HP/HR	HP/HR	HP/HR	HP/HR
Capacity	Cooling [kW]	5.6	7.1	11.2	14
	Cooling [Btu/h]	19,100	24,200	38,200	47,800
	Heating [kW]	6.3	8	12.5	16
	Heating [Btu/h]	21,500	27,300	42,700	54,600
Power Input	Cooling [W]	72	80	92	160
	Heating [W]	72	77	80	160
Fan	Motor (Output x n) [W]	60 x 1	120 x 1	260 x 1	355 x 1
	Air Flow Rate H/M/L [CMM]	14.00/13.00/12.00	18.00/16.50/15.00	29.30/23.90/18.50	36.40/30.80/26.00
Piping Connections	Liquid Pipe (Φ,mm)	6.35	9.52	9.52	9.52
	Gas Pipe (Φ,mm)	12.7	15.88	15.88	15.88
	Drain Pipe (Φ,mm)	ID 18 HOSE	ID 18 HOSE	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)
Refrigerant	Control Method	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	40.0/37.0/34.0	44.0/42.0/40.0	45.0/41.0/37.0	46.0/43.0/38.0
	Sound Power [Cooling]	-	-	61	63
Dimensions	Net Weight [Kg]	21	21	33.5	42.5
	Net Dimensions (W×H×D) [mm]	1000 x 650 x 200	1000 x 650 x 200	1350 x 675 x 235	1650 x 675 x 235

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish)

MWR-SH10N, MWR-SH10RN (Turkish)

MWR-SH00N

MR-EH00, MR-EH00R (Turkish)

Concealed Floor Standing
Design flexibility for unique spaces

Accommodate individual space requirements with adaptable, silent performance

The Samsung Concealed Floor Standing unit offers the utmost in versatility in solving varied cooling and heating needs. This unit effectively adjusts its performance to meet the needs of the space, such as high ceilings and lots of windows, while maintaining the desired temperature.

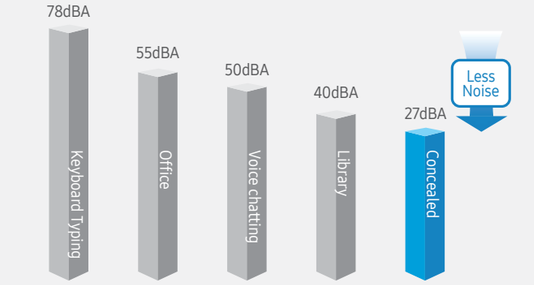
High performance for versatile installations

The Concealed Floor Standing unit offers wide versatility in solving cooling and heating space requirements for a variety of environments, such as offices, schools and hotels. Whether on the floor or mounted, the unit compensates for conditions such as high ceilings and windows while delivering consistent cooling and heating performance. When mounted in a window, the unit blocks the air from getting through the gap in the window and maintains the desired indoor temperature.

Silent operation

This silent yet powerful unit, operating at a mere 27dB, offers an efficient cooling and heating solution that makes spaces more comfortable and carefree than ever before.

Noise Level Comparison



Concealed Floor Standing

Specifications

Model Code		AM036FNFDEH/TK	AM056FNFDEH/TK	AM071FNFDEH/TK
Features	Type	Concealed floor standing	Concealed floor standing	Concealed floor standing
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	3.60	5.60	7.10
	Cooling 2) [Btu/h]	12,300	19,100	24,200
	Heating 2) [kW]	4.00	6.30	8.00
	Heating 2) [Btu/h]	13,600	21,500	27,300
Power Input (Nominal)	Cooling 1) [W]	50.00	110.00	110.00
	Heating 2) [W]	50.00	110.00	110.00
Fan	Air Flow Rate (High / Mid / Low) [CMM]	10.00/8.50/6.00	15.50/14.00/11.00	15.50/14.00/11.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")
	Gas Pipe (Φ,mm, inch)	12.70 (1/2")	12.70 (1/2")	15.88 (5/8")
	Drain Pipe (Φ,mm)	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	37.0/32.0/27.0	40.0/36.0/32.0	40.0/36.0/32.0
	Sound Power (Cooling) [dB(A)]	64.0	67.0	67.0
External Dimension (Indoor Unit)	Net Weight (kg)	23.00	28.50	28.50
	Net Dimensions (WxHxD) (mm)	945 x 600 x 220	1225 x 600 x 220	1225 x 600 x 220

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish) | MWR-SH10N, MWR-SH10RN (Turkish) | MWR-SH00N | MR-EH00, MR-EH00R (Turkish) | MRK-A10N

Floor Standing

Strong, long-range cooling, and reliable performance

Super

Ideal for commercial use, the Super air conditioner provides strong and long-range cooling with reliable performance.

Long range air flow

The optimum combination of powerful fan motor and fan ensure a long-range air flow that reaches up to 18m. So, it cools a large room in an instance.

Duct installation for a large space

With duct installation, the air conditioner offers a powerful cooling performance regardless of space characteristics.

Mirage

The superior technologies built in provide the experience of absolute comfort.

4 Way Auto Swing

There's no need for two air conditioners to cool one large area if you use Mirage. 4 Way Auto Swing cools every corner of the room with powerful air flow from 4 directions.

Full touch panel control

The touch screen display panel lets you easily control the direction of air flow, adjust temperature, and simply adds modern luxury to your room.

Auto shutter

When your air conditioner is turned on, the flaps open, ready to deliver pure and fresh air. When your air conditioner is turned off, however, the flaps close, impeding dust particles from entering the interior of your air conditioner when not in use.

Floor Standing

Specifications

Model Code		AM140JNPDKH/TK	AM280JNPDKH/TK
Features	Type	Packaged	Packaged
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50/60	1,2,220-240,50
System	Mode	HP/HR	HP/HR
Capacity	Cooling 2) [kW]	14.00	28.00
	Cooling 2) [Btu/h]	47,800	95,500
	Heating 2) [kW]	16.00	31.50
	Heating 2) [Btu/h]	54,600	107,500
Power Input (Nominal)	Cooling 1) [W]	190.00	955.00
	Heating 2) [W]	190.00	955.00
Fan	Motor (Output) [W]	154 x 1	700 x 1
	Air Flow Rate (High / Mid / Low) [CMM]	35.00/30.50/27.50	70.00/60.00/50.00
Piping Connections	Liquid Pipe (Φ,mm, inch)	9.52 (3/8")	9.52 (3/8")
	Gas Pipe (Φ,mm, inch)	15.88 (5/8")	22.22 (7/8")
	Drain Pipe (Φ,mm)	ID 18 HOSE	ID 18 HOSE
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	54.0/-/47.0	58.0/-/54.0
External Dimension (Indoor Unit)	Net Weight (kg)	48.00	115.00
	Net Dimensions (WxHxD) (mm)	610 x 1850 x 400	1100 x 1800 x 485

Wireless Remote Controller (Optional)

MWR-WE11N MWR-SH10N MWR-SH00N

Wireless Remote Controller (Optional)

MR-EH00

ERV Plus/ERV

Enjoy high-efficiency ventilation for a more refreshing atmosphere

Indoor air quality is gaining more and more attention as increasing numbers of people become ill from airborne contaminants. Indoor air contamination is often the cause behind building-related syndromes, such as asthma, headaches and dizziness.

The Samsung ERV (Energy Recovery Ventilation) system air conditioner provides fresh and healthy air from outside while minimising energy loss for maximum efficiency. Its intelligent structure incorporates features specifically designed for flawless ventilation and efficient operation.

Drive energy savings with unparalleled heat exchange and automated temperature control

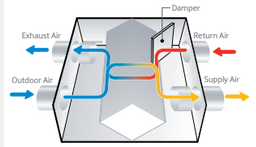
Samsung ERV and ERV Plus deliver exceptional cooling and heating all year round by employing the following heat recovery method:

1. A 2-way ventilation design with air inlets and outlets on both sides of the units provides superior ventilation efficiency.
2. The remaining surface of the heat exchange area transfers heat energy while preventing the discharged contaminants from re-entering.
3. The system recovers up to 70% of the energy needed to cool or heat the environment. The efficient heat recovery maintains the indoor temperature and humidity during the winter, and prevents outdoor heat and moisture from entering indoors during the summer.

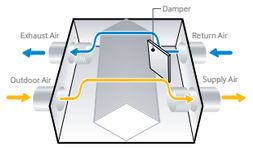
Auto Mode

ERV and ERV Plus automatically change operation mode, depending on the temperature difference between the indoor and outdoor environment, to conserve energy.

Extreme Climates (Winter and Summer)



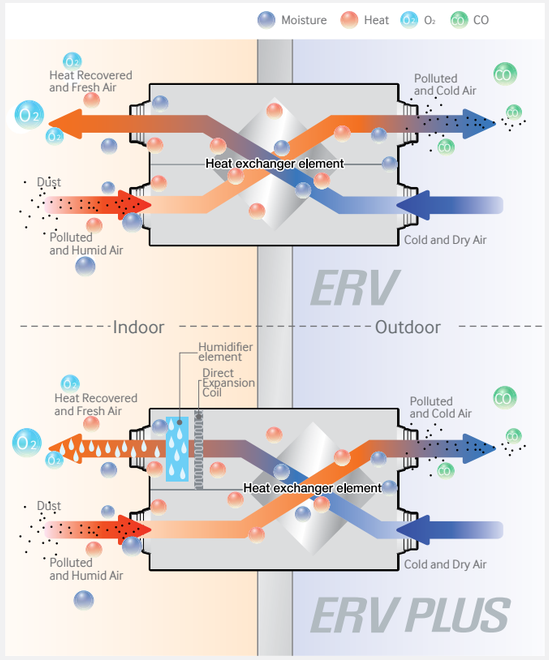
Mild Climates (Spring and Fall)



Smart CO_2 Detection

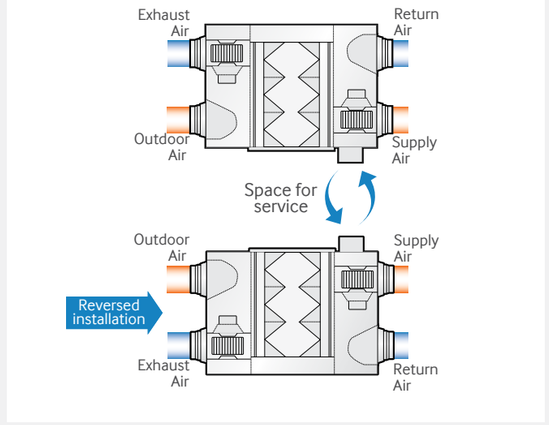
ERV provides fresh in-room airflow by detecting CO_2 with the optional CO_2 sensor. Users can also attach a humidity stat (procured locally), which detects the moisture of the room and automatically adjusts its humidity level.

Heat Recovery Method of ERV System



Flexible Setup

The ERV system can be installed vertically or horizontally. This installation flexibility saves time on maintenance when installing more than one unit. Users can reduce the number of service holes by installing ERV with the control box facing a single service hole (applicable to ERV only).



ERV Plus/ERV

Specifications

Model Code		AM050FNKDEH/EU AM050FNKDEH/TK	AM100FNKDEH/EU AM100FNKDEH/TK
Features	Type	ERV PLUS	ERV PLUS
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50
System	Mode	HP/HR	HP/HR
Capacity	Cooling [kW]	3.60	7.10
	Cooling [Btu/h]	12,300	24,200
	Heating [kW]	4.00	8.00
	Heating [Btu/h]	13,600	27,300
Power Input (Nominal)	Cooling [W]	220.00	510.00
	Heating [W]	220.00	510.00
Fan	Motor (Output) [W]	60 x 2	70 x 2
	Air Flow Rate (High / Mid / Low) [CMH]	500/500/360	1000/1000/690
	External Static Pressure (Min / Std / Max) [mmAq]	8.70/10.20/16.32	7.60/9.20/15.30
Piping Connections	Liquid Pipe (Φ, mm)	6.35 (1/4")	6.35 (1/4")
	Gas Pipe (Φ, mm)	12.70 (1/2")	12.70 (1/2")
	Drain Pipe (Φ,mm)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Refrigerant	Control Method	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	36.0/32.0/28.0	36.0/33.0/31.0
	Sound Power (Cooling) [dB(A)]	67.0	67.0
External Dimension (Indoor Unit)	Net Weight (kg)	61.00	90.00
	Net Dimensions (WxHxD) (mm)	1553 x 270 x 1000	1763 x 340 x 1135

Type		ERV	ERV	ERV	ERV	ERV
Model Code		AN026JSKLKN/TK	AN035JSKLKN/TK	AN050JSKLKN/TK	AN080JSKLKN/TK	AN100JSKLKN/TK
Power Supply [Φ, #, V, Hz]		1,2,220-240,50/60				
Mode		Temperature Exchange				
Power Input	Cooling [W]	115.00	115.00	175.00	330.00	450.00
	Fan	4.33	5.83	8.33	13.33	16.67
	Temperature Exchange	70.00	70.00	70.00	70.00	70.00
	Heating [%]	74.00	78.00	74.00	77.00	74.00
Effective Enthalpy Exchange Efficiency	Cooling [%]	50.00	50.00	50.00	50.00	50.00
	Heating [%]	-	-	-	-	-
Dimensions	Net Weight [Kg]	28.50	42.50	42.50	67.00	67.00
	Net Dimensions (W×H×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

Individual Controllers (Optional)

MWR-WE11N, MWR-WE11RN (Turkish)

MWR-VH12N (ERV)
MWR-VH12RN (ERV, Turkish)

Optional Items (Optional)

MVO-VA050100
MVO-VA100100
(Humidifier)

MOS-C1
(ERV CO2 Sensor)

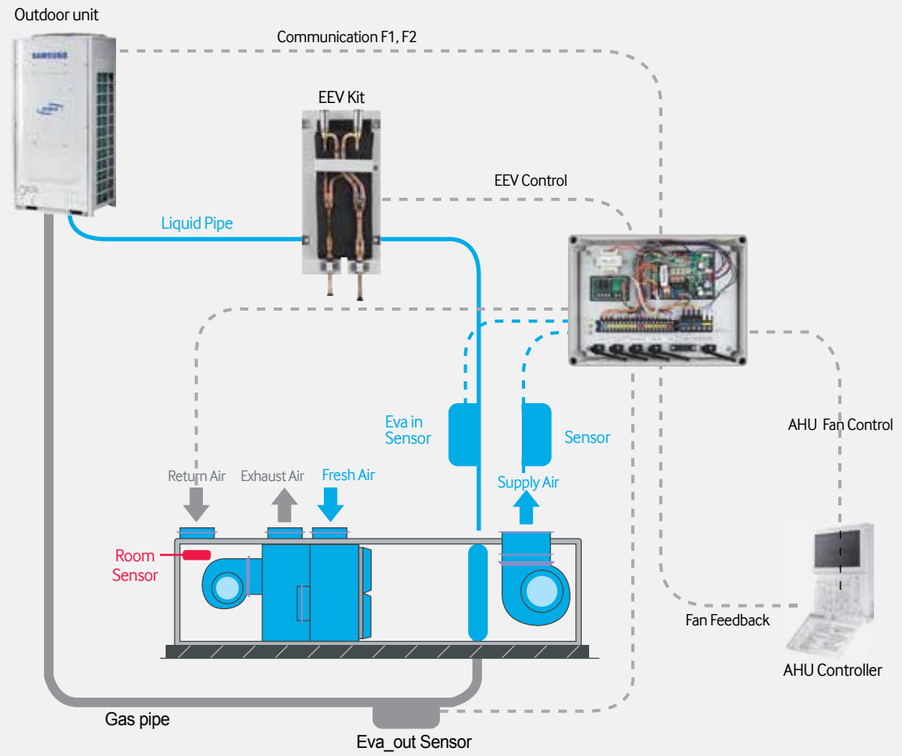
AHU Kit

Optimise performance and energy savings with seamless AHU connectivity

Samsung AHU Kit allows DVM S outdoor units to connect to air handling units (AHUs), which results in energy savings and improved performance and efficiency.

Features includes:

- IP54 waterproof certification (MXD-K***AN)
- Variable capacity
- 2.5HP - 40HP
- Simple BMS application
- 0-10V
- Discharge air temperature control



Model Code		MXD-K025AN	MXD-K050AN	MXD-K075AN	MXD-K100AN	MXD-A64K100E	MCM-D201N
Components		EEV Kit + Controller	EEV Kit + Controller	EEV Kit + Controller	EEV Kit + Controller	EEV Kit	Multi EEV Connect Controller
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
Rating	HP	2.5	5	7.5	10	10	40 (10 *4 EA)
Allowance Capacity	Min. [kW]	7	14	21	28	28	28
	Max. [kW]	8.75	17.5	26.25	35	35	140 (35.0 * 4EA)
Air Volume	Min. [CMH]	1,200	2,150	3,100	4,000	4,000	4,000
	Max. [CMH]	1,500	2,688	3,875	5,000	5,000	20,000

DVM Chiller

Simply expand capacity on demand

A modular design provides a wide choice of configurations. You can simply and flexibly combine modules and expand capacity from 12T to 320T in various ways to optimise energy and space savings or a balance of both.

Easy to move and install modular design

Its modular design and compact size reduce the time, cost and effort to transport, move and install it on site. With a small footprint it's easy to fit and combine multiple units even when there's limited space.

Advanced performance & energy efficiency

The DVM Chiller's advanced technology delivers a consistently higher performance and reduces wasted energy. It has a highly efficient BLDC inverter compressor with flash injection technology and evaporative condenser.

Works silently at night

A Night Silent Mode means it operates at 3 different levels and works silently at night. It adjusts the speed of the compressors and fans, so they supply the required cooling, but provide a better sound performance.

Powerful heating performance

DVM chiller can operate over 45°C hot water supply heating performance at -20°C with flash injection technology.

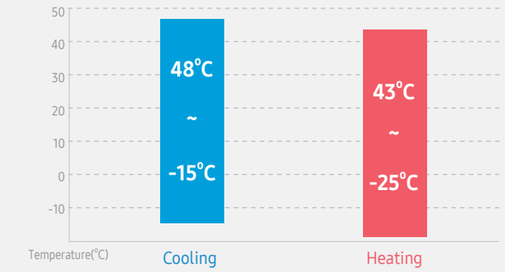
Powerful Heating Performance

Easily increase performance & save space

Its compatibility, large capacity and high space efficiency make it perfect for replacing chillers as it cuts down maintenance costs and frees up valuable space, while expanding overall capacity.

Wide Temperature Range of Operation

Cooling -15°C ~ 48°C
Heating -25°C ~ 43°C



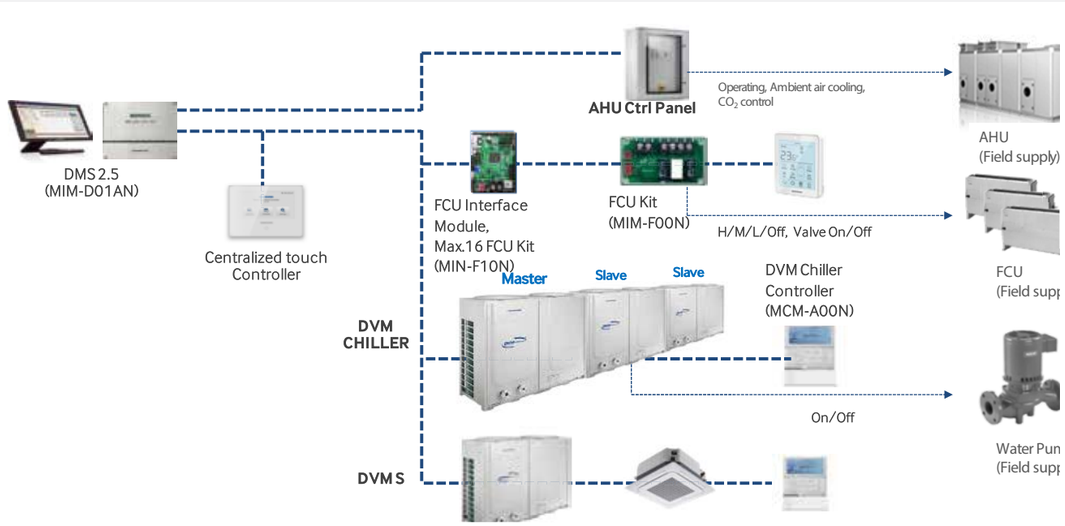
DVM Chiller

Energy saving operation(ESEER)

Various modes for different types of operational requirements

Centrally control all systems

To maximise operational convenience and the value of your existing units, an integrated control system lets you centrally manage both outdoor and indoor units, such as the DVM chiller, VRF, and Air Side equipment.



DVM Chiller

Specifications

Model Code		AG042KSVANH/EU	AG056KSVANH/EU	AG070KSVANH/EU	AG042KSVGNH/EU	AG056KSVGNH/EU	AG070KSVGNH/EU
Features	Type	DVM Chiller	DVM Chiller	DVM Chiller	DVM Chiller	DVM Chiller	DVM Chiller
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		3,4,380,60	3,4,380,60	3,4,380,60	3,4,380,60	3,4,380,60	3,4,380,60
System	Mode	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance (Nominal)	HP	15	20	25	15	20	25
	RT [usRT]	12	16	18	12	16	18
Capacity	Cooling [kW]	42.0	56.0	65.0	42.0	56.0	65.0
	Heating [kW]	42.0	56.0	69.5	42.0	56.0	69.5
Power Input (Nominal)	Cooling 1) [kW]	12.35	18.67	26.00	13.59	20.14	28.26
	Heating 2) [kW]	11.83	17.50	24.39	12.77	18.48	25.84
Current Input (Nominal)	Cooling 1) [A]	19.6	19.6	41.2	24.2	34.20	45.8
	Heating 2)[A]	18.8	27.8	38.7	23.4	32.40	43.3
COP	Nominal Cooling [W/W]	3.40	3.00	2.50	3.09	2.78	2.30
	Nominal Heating [W/W]	3.55	3.20	2.85	3.29	3.03	2.69
Energy Efficiency	ESEER [W/W]	5.7	5.4	5.0	4.75	4.50	4.10
Compressor	Type	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter	Scroll Inverter
	Output [kW x n]	6.76x2	6.76x2	6.76x2	6.76x2	6.76x2	6.76x2
	Oil (Type)	PVE	PVE	PVE	PVE	PVE	PVE
Fan	Type	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Output x n [W]	630 x 2	630 x 2	630 x 2	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)	364 (182 x 2)	364 (182 x 2)	392 (196 x 2)
	External Static Pressure (Max) [mmAq]	8.0	8.0	8.0	8.0	8.0	8.0
Water Side Heat Exchanger	Type	Brazing Plate	Brazing Plate	Brazing Plate	Brazing Plate	Brazing Plate	Brazing Plate
	Water Flow (Cooling/Heating) [LPM]	120	160	186/200	120	160	186/200
	Pressure Drop [kPa]	60	100	120	60	100	120
	Max Operationg Pressure [MPa]	1.0	1.0	1.0	1.0	1.0	1.0
	Connection Type	FLANGE	FLANGE	FLANGE	FLANGE	FLANGE	FLANGE
	Pipe(Inlet/Outlet) [A]	40	40	50	40	40	50
	Q'Ty [EA]	2	2	2	2	2	2
Pump	Type	-	-	-	End-Suction	End-Suction	End-Suction
	Input x n [kW]	-	-	-	1.68	1.68	1.68
	Output x n [kW]	-	-	-	1.45	1.45	1.45
	Normial Water Flow Rate [LPM]	-	-	-	120	160	186/200
	External Static Pressure(Set) Max. [mAq]	-	-	-	22.4	15.3	10.2
	External Static Pressure(Set) Max. [kPa]	-	-	-	220	150	100
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A
	Factory Charging [kg]	18	18	18	18	18	18
Sound	Sound Pressure [dB(A)]	60	62	63	60	62	63
	Sound Power [dB(A)]	80	83	86	80	84	88
External Dimension (Outdoor Unit)	Net Weight [kg]	446	446	465	472	472	493
	Shipping Weight [kg]	468	468	487	494	494	515
	Net Dimensions (WxHxD) [mm]	1,795x1,695x765	1,795x1695x765	1,795x1695x765	1,795x1,695x765	1,795x1695x765	1,795x1695x765
	Shipping Dimensions (WxHxD) [mm]	1,900x1,887x919	1,900x1,887x919	1,900x1,887x919	1,900x1,887x919	1,900x1,887x919	1,900x1,887x919
Operating Temp. Range	Cooling [°C]	5 ~ 25	5 ~ 25	5 ~ 25	5 ~ 25	5 ~ 25	5 ~ 25
	Cooling (If using brine) [°C]	-10~25	-10~25	-10~25	-10~25	-10~25	-10~25
	Heating [°C]	25 ~ 55	25 ~ 55	25 ~ 55	25 ~ 55	25 ~ 55	25 ~ 55
Operating Amb. Temp. Range	Cooling [°C]	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48	-15 ~ 48
	Heating [°C]	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43

* Specifications may be subject to change without prior notice.
*1) Specifications comply with EN14511.
*2) Nominal cooling / heating capacities are based on;
Cooling : Chilled water inlet / outlet temperature : 12 / 7°C, outdoor temperature : 35°C DB, 24°C WB.
Heating : Heating water inlet / outlet temperature : 40 / 45°C, outdoor temperature : 7°C DB, 6°C WB.
*3) ESEER (Pump input is included) is calculated based on EUROVENT condition.

Integrated management system


DMS 2.5 (MIM-D01AN)


BACnet gateway (MIM-B17BN)


LonWorks gateway (MIM-B18BN)

Controller


Centralized controller (MCM-A300N)


Module controller (MCM-A00N)

FCU controller


FCU interface module (MIM-F10N)


FCU Kit (MIM-F00N)

Duct S
Efficient operation

Deliver consistent cooling and heating with innovative operation for maximum comfort

Samsung Duct S is a global frontrunner in energy-efficient design, temperature control and power. Its aerodynamic blade technology increases airflow silently while adjustable air tuning customises the indoor climate for any situation.

World-class energy efficiency

The Samsung Duct S unit boasts cutting-edge technologies to deliver stellar energy efficiency.

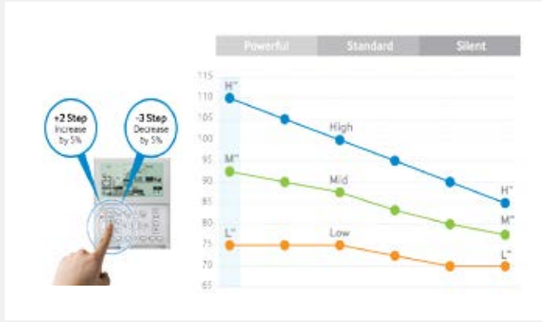
- **Twin Rotary BLDC Compressors.** These robust compressors reduce fluctuation and vibration by 75% for effective reluctance.
- **FME/FMC (Flat Micro-channel Evaporator/Condenser).** Samsung's FME/FMC technology achieves a 30% increase in efficiency compared with the conventional fin and tube type. It has also enabled a 30% decrease in unit size.

Silent performance

The Samsung Duct S includes aerodynamic blades that increase air volume by 10% with less noise for powerful comfort with less distraction.

Easy air tuning

Smart Tuning provides the delicate control needed for optimum comfort for any occasion. Users can easily fine-tune operational power to suit their activity level, while also ensuring minimum noise and energy savings.



Automatic air volume

Duct S features ingenious technology that senses the current air volume and pressure and then quickly adjusts its performance to ensure optimum comfort, whatever the duct length.

Powerful cooling

With the integration of the all new sirocco fan, the Duct S ensures sufficient air volume by adopting a bigger, more powerful fan than conventional models.

Cleaner, healthier air

Users can clean indoor air with the optional Virus Doctor for a cleaner work or living atmosphere. The easy-to-install Virus Doctor generates active hydrogen and oxygen ions to eliminate airborne contaminants, completely eradicate airborne bacteria and allergens, and even neutralize OH (hydroxyl) radicals.

Duct S
Easy, flexible setup

Streamline management with a flexible design

The Samsung Duct S is designed especially for simple installation, handling and maintenance. Its discreet, accessible design makes for easy upkeep, while the smart plug-and-connect drainage streamlines maintenance for even multiple units.

Slim design and light weight

A streamlined construction makes the Duct S convenient to install and maintain in any building. Its compact, slender design reduces its volume and weight compared to conventional air conditioners. Duct S is 30% smaller than its counterparts, so it fits easily into small spaces. But despite its small frame, Duct S offers exceptional efficiency, while its light weight supports convenient handling and setup.

Wide range of ESP

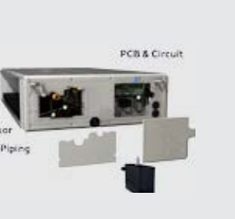
Users can choose from a complete range of Duct S products to deliver the right capacity, right ESP and right sized product.

Three-way access

With its smart, multi-entry design and slide fit, users can access the Duct S from three directions (top, side and bottom) for easy maintenance.

Plug-and-connect drainage

The optional Plug and Connect External Type drain pump takes the hassle out of draining the unit. Simply plug it in and connect it, and with the single drain pump, maintaining all the building's Duct S units is easier than ever. Plus, the advanced check valve prevents drain water backflow, freeing the unit from the bacteria and fungi of water stagnation in the drain pan.

From the Top	From the Bottom	From the Side
		

MSP Duct Qatar, Bahrain (R410A, Cooling only, T3)

Specifications

Model Code	Indoor	AC024KNMPEC/ID	AC030KNMPEC/ID	AC036KNMPEC/ID
	Outdoor	AC024KXMREC/ID	AC030KXMREC/ID	AC036KXMREC/ID
System	Mode	COOLING ONLY	COOLING ONLY	COOLING ONLY
Capacity	Cooling [kW]	6.89	1.91/8.65/11.72	2.64/10.26/12.75
	Cooling [Btu/h]	23,500	6,500/29,500/40,000	9,000/35,000/43,500
	Heating [kW]	5.86	7.03	8.35
	Heating [Btu/h]	20,000	24,000	28,500
Power Input (Nominal)	Cooling (Min / Std / Max) [kW]	1.98	0.65/2.55/4.20	0.99/3.04/4.82
	Cooling (Cooling (at 46°C) [kW]	2.36	2.85	3.34
Energy Efficiency	EER (Nominal Cooling) [W/W]	3.48	3.39	3.38
	EER (Nominal Cooling) [Btu/Wh]	11.87	11.57	11.51
	EER (Nominal Cooling), (at 46°C) (Main Point)	8.47	8.42	8.53
Piping Connections	Liquid Pipe [Φ, mm, inch]	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")
	Gas Pipe [Φ, mm, inch]	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Installation Limitation Max. Length [m]	30	50	75
	Installation Limitation Max. Height [m]	15.0	30.0	30.0
Refrigerant	Type	R410A	R410A	R410A
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Fan	Air Flow Rate (High / Mid / Low) [CMM]	24.00/22.00/20.00	33.00/29.00/25.00	35.00/29.00/23.00
	Air Flow Rate (High / Mid / Low) [CFM]	847.58/776.95/706.32	1,165.43/1,024.16/882.90	1,236.06/1,024.16/812.27
	External Static Pressure (Min / Std / Max) [mmAq]	0.00/3.00/15.00	0.00/4.00/15.00	0.00/4.00/15.00
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	37.0 / 34.0 / 31.0	39.0 / 36.0 / 33.0	40.0 / 37.0 / 34.0
External Dimension (Indoor Unit)	Net Weight [kg]	32.50	32.50	32.50
	Net Dimensions (WxHxD) [mm]	1200 x 250 x 700	1200 x 250 x 700	1200 x 250 x 700
Additional Accessories	Drain pump (Optional)	MDP-G075SP	MDP-G075SP	MDP-G075SP
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Fan	Air Flow Rate (Cooling) [CMM]	56.00	63.00	70.00
Sound	Sound Pressure (Cooling / Heating) [dB(A)]	53.0	52.0	54.0
External Dimension (Outdoor Unit)	Net Weight [kg]	55.00	62.00	82.00
	Net Dimensions (WxHxD) [mm]	880 x 793 x 310	880 x 967 x 320	932 x 1162 x 375
Operating Temp. Range	Cooling [°C]	21~54	-15~54	-15~54

Model Code	Indoor	AC048KNMPEC/ID	AC054KNMPEC/ID	AC060KNHPEC/ID
	Outdoor	AC048KXMRGC/ID	AC054KXMRGC/ID	AC060KXQRGC/ID
System	Mode	COOLING ONLY	COOLING ONLY	COOLING ONLY
Capacity	Cooling [kW]	3.96/13.48/16.12	4.40/16.12/19.64	6.01/17.58/19.99
	Cooling [Btu/h]	13,500/46,000/55,000	15,000/55,000/67,000	20,500/60,000/68,200
	Heating [kW]	11.43	14.07	14.94
	Heating [Btu/h]	39,000	48,000	51,000
Power Input (Nominal)	Cooling (Min / Std / Max) [kW]	0.90/3.96/5.60	1.10/4.77/6.70	1.30/5.20/7.30
	Cooling (Cooling (at 46°C) [kW]	4.60	5.60	6.15
Energy Efficiency	EER (Nominal Cooling) [W/W]	3.40	3.38	3.38
	EER (Nominal Cooling) [Btu/Wh]	11.62	11.53	11.54
	EER (Nominal Cooling), (at 46°C) (Main Point)	8.48	8.57	8.29
Piping Connections	Liquid Pipe [Φ, mm, inch]	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Gas Pipe [Φ, mm, inch]	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")
	Installation Limitation Max. Length [m]	75	75	75
	Installation Limitation Max. Height [m]	30.0	30.0	30.0
Refrigerant	Type	R410A	R410A	R410A
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Fan	Air Flow Rate (High / Mid / Low) [CMM]	41.00/33.00/25.00	51.00/45.00/39.00	71.00/60.00/50.00
	Air Flow Rate (High / Mid / Low) [CFM]	1,447.96/1,165.43/882.90	1,801.12/1,589.22/1,377.32	2,507.44/2,118.96/1,765.80
	External Static Pressure (Min / Std / Max) [mmAq]	0.00/5.20/15.00	0.00/5.20/15.00	5.00/6.12/20.00
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	41.0 / 38.0 / 35.0	44.0 / 41.0 / 38.0	46.1 / 42.6 / 36.9
External Dimension (Indoor Unit)	Net Weight [kg]	38.00	53.00	82.50
	Net Dimensions (WxHxD) [mm]	1300 x 300 x 700	1200 x 360 x 650	1350 x 450 x 910
Additional Accessories	Drain pump (Optional)	MDP-G075SP	MDP-M075SGU2D	MDP-G075SP
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		3,4,380-415,50	3,4,380-415,50	3,4,380-415,50
Fan	Air Flow Rate (Cooling) [CMM]	115.00	115.00	115.00
Sound	Sound Pressure (Cooling / Heating) [dB(A)]	54.0	55.0	57.2
External Dimension (Outdoor Unit)	Net Weight [kg]	90.00	90.00	90.00
	Net Dimensions (WxHxD) [mm]	940 x 1420 x 330	940 x 1420 x 330	940 x 1420 x 330
Operating Temp. Range	Cooling [°C]	-15~54	-15~54	-15~54

Individual Controllers (Optional)

MWR-WE11N MWR-SH10N MWR-SH00N MR-EH00 MRK-A10N

Drain Pump (Optional)

MDP-G075SP (External Type) MDP-M075SGU2D

Tested in accordance with conditions specified in ISO 5151 & ISO 13253

MSP Duct (R22 Heat pump, T3)

Specifications

Model Code	Indoor	AC018HBMDKE/ID	AC024HBMDKE/ID	AC036HBMDKE/ID
	Outdoor	AC018HCRTEE/ID	AC024HCRTEE/ID	AC036HCRTGE/ID
System	Mode	HEAT PUMP	HEAT PUMP	HEAT PUMP
Capacity	Cooling [kW]	5.33	7.18	10.40
	Cooling [Btu/h]	18,200	24,500	35,500
	Cooling (Outdoor temp. 46°C) [kW]	4.78	6.15	9.38
	Cooling (Outdoor temp. 46°C) [Btu/h]	16,300	21,000	32,000
	Heating (Min / Std / Max) [kW]	5.92	7.85	10.78
	Heating (Min / Std / Max) [Btu/h]	20,200	26,800	36,800
Power Input (Nominal)	Cooling (Min / Std / Max) [kW]	1.80	2.45	3.40
	Cooling (at 46°C) [kW]	2.10	2.75	4.15
	Heating (Min / Std / Max) [kW]	1.70	2.45	3.60
Energy Efficiency	EER (Nominal Cooling)	2.96	2.93	3.06
	EER (Nominal Cooling, US) [Btu/Wh]	10.1	10	10.4
	COP (Nominal Heating)	3.48	3.20	2.99
Piping Connections	Installation Max. Length [m]	30	30	50
	Installation Max. Height [m]	15.0	15.0	30.0
Refrigerant	Type	R22	R22	R22
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Fan	Air Flow Rate (High / Mid / Low) [CMM]	15.00/12.00/9.00	21.00/18.00/15.00	32.00/29.00/27.00
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	33.0 / 30.0 / 27.0	38.0 / 34.0 / 30.0	39.0 / 36.0 / 33.0
External Dimension (Indoor Unit)	Net Weight [kg]	25.00	25.00	32.50
	Net Dimensions (WxHxD) [mm]	850 x 250 x 700	850 x 250 x 700	1200 x 250 x 700
Additional Accessories	Drain pump (Optional)	MDP-G075SP	MDP-G075SP	MDP-G075SP
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	3,4,380-415,50
Fan	Air Flow Rate (Cooling) [CMM]	43.00	53.00	90.00
Sound	Sound Pressure (Cooling / Heating) [dB(A)]	52.0 / 53.0	52.0 / 53.0	55.0 / 57.0
External Dimension (Outdoor Unit)	Net Weight [kg]	48.00	62.00	85.00
	Net Dimensions (WxHxD) [mm]	880 x 638 x 310	880 x 798 x 310	880 x 931 x 320
Operating Temp. Range	Cooling [°C]	21~54	21~54	21~54
	Heating [°C]	-5~24	-5~24	-5~24

Model Code	Indoor	AC036HBMDKE/ID	AC048HBMDKE/ID	NS060SHREA
	Outdoor	AC036HCRTEE/ID	AC048HCRTGE/ID	RC060FQRGA
System	Mode	HEAT PUMP	HEAT PUMP	HEAT PUMP
Capacity	Cooling [kW]	10.40	14.06	16.71
	Cooling [Btu/h]	35,500	48,000	57,000
	Cooling (Outdoor temp. 46°C) [kW]	9.26	12.75	-
	Cooling (Outdoor temp. 46°C) [Btu/h]	31,600	43,500	-
	Heating (Min / Std / Max) [kW]	10.93	15.82	18.17
	Heating (Min / Std / Max) [Btu/h]	37,300	54,000	62,000
Power Input (Nominal)	Cooling (Min / Std / Max) [kW]	3.50	4.97	6.55
	Cooling (at 46°C) [kW]	4.15	5.80	-
	Heating (Min / Std / Max) [kW]	3.50	4.60	6.35
Energy Efficiency	EER (Nominal Cooling)	2.97	2.83	2.55
	EER (Nominal Cooling, US) [Btu/Wh]	10.1	9.7	8.7
	COP (Nominal Heating)	3.12	3.44	2.86
Piping Connections	Installation Max. Length [m]	50	50	50
	Installation Max. Height [m]	30.0	30.0	30.0
Refrigerant	Type	R22	R22	R22
Power Supply (Indoor Unit) [Φ, #, V, Hz]		1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50
Fan	Air Flow Rate (High / Mid / Low) [CMM]	32.00/29.00/27.00	44.00/39.00/35.00	42.30/38.06/28.01
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	39.0 / 36.0 / 33.0	40.0 / 37.0 / 33.0	46.0 / 44.0 / 42.0
External Dimension (Indoor Unit)	Net Weight [kg]	32.50	39.00	49.00
	Net Dimensions (WxHxD) [mm]	1200 x 250 x 700	1300 x 300 x 700	1200 x 360 x 650
Additional Accessories	Drain pump (Optional)	MDP-G075SP	MDP-G075SP	MDP-M075SGU2
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	3,4,380-415,50	3,4,380-415,50
Fan	Air Flow Rate (Cooling) [CMM]	90.00	90.00	-
Sound	Sound Pressure (Cooling / Heating) [dB(A)]	55.0 / 57.0	55.0 / 56.0	56.0 / 58.0
External Dimension (Outdoor Unit)	Net Weight [kg]	85.00	104.00	110.00
	Net Dimensions (WxHxD) [mm]	880 x 931 x 320	932 x 1162 x 375	932 x 1128 x 375
Operating Temp. Range	Cooling [°C]	21~54	21~54	21~54
	Heating [°C]	-5~24	-5~24	-5~24

Individual Controllers (Optional)

MWR-WE10 MWR-WH00 MWR-WH02 MWR-SH00 MR-EH00 MRK-A10N

Drain Pump (Optional)

MDP-G075SP MDP-M075SGU2

Control System

Overview

Samsung Control System provides convenient and centralised control of individual indoor units or entire groups of multiple units. Using a variety of controls, users can centrally manage and control multiple functions for the units.

Integrated management

Samsung's Integrated Management System provides the easiest way to manage a large number of air conditioning units at once. This integrated system helps users control, monitor, manage and maintain every little detail of their air conditioning needs.

Supporting convenient and optimised management, Samsung's Integrated Management System is an ideal solution for managing large and middle-sized buildings with many indoor and outdoor units.

Building management

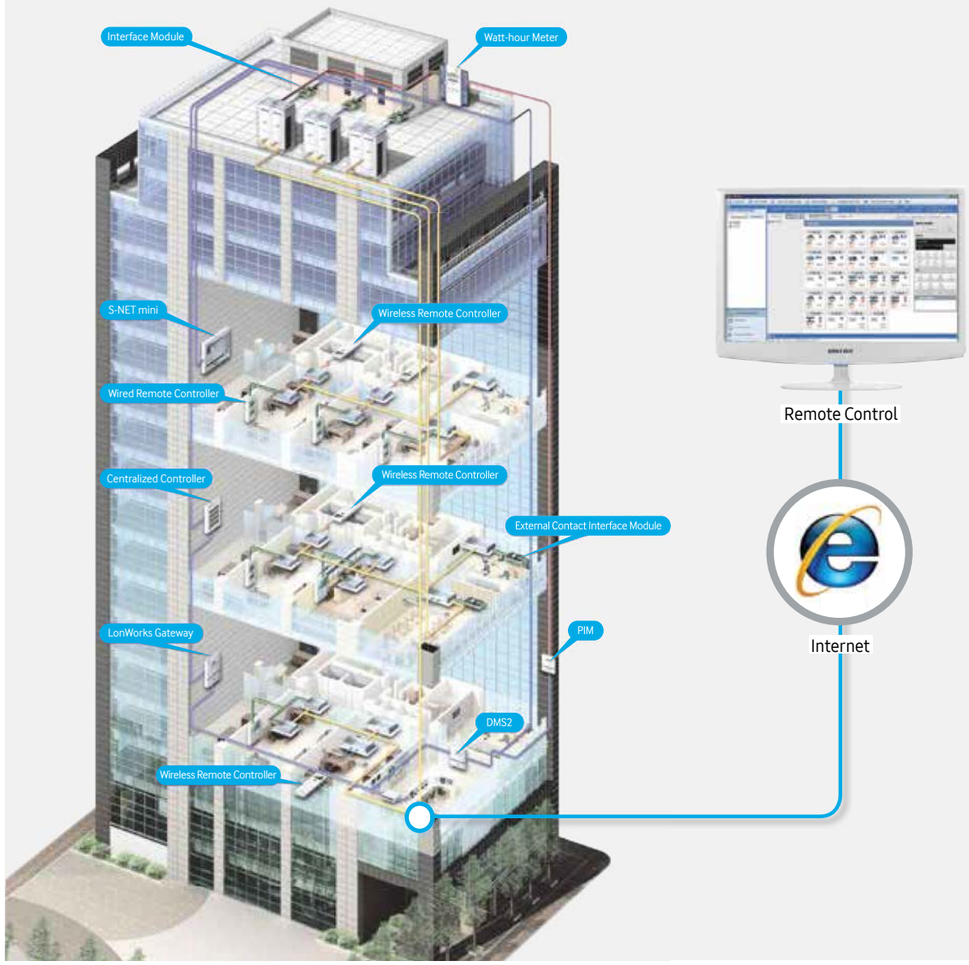
Samsung Building Management System (BMS) makes it possible to control and monitor the air conditioning network using the remote control and monitoring function. Optimum control keeps the air conditioning system efficient, saves energy, reduces maintenance costs and extends the lifespan of the units.

Applications tailored to your needs

Samsung System Air Conditioner products include a full spectrum of offerings so users can find the most convenient, efficient air conditioning system to suit their needs.

System controller

Samsung's control system offers various control options for indoor units. Users can control multiple units individually or simultaneously in groups to optimize convenience. On/Off controllers or interface modules.



Control System

Individual control

Wireless Remote Controller | MR-EH00/AR-KH00E

- On/off, operation mode, fan speed, airflow, Temperature setting
- Simple schedule control
- Individual blade control for 4 way cassette models
- Multi-channel wireless remote control (maximum 4 channels)
- AR-EH03E/AR-EC03E (For Wind-free™ Cassette)


MR-EH00

AR-KH00E

Wired Remote Controller | MWR-WE10N / MWR-WE11N /MWR-WE13N

- On/off, operation mode, fan speed, airflow, temperature setting
- Individual and group control (maximum 16 indoor units)
- Error display
- Built-in room temperature sensor
- Automatic stop mode
- Wireless remote control restriction
- Unified controller (AC, ERV, ERV PLUS, AHU)
- Different permission levels
- Weekly schedule setting (A/C, ERV, A/C+ERV)
- Exception date setting
- Individual blade control for 4 way cassette models
- MWR-WW00N (for DVM S Hydro)
- MWR-WE11N (for 360 Cassette)
- MWR-WE13N (For Wind-free™ Cassette)

Simplified Wired Remote Controller | MWR-SH00N/MWR-SH10N

- On/off, operation mode, fan speed, airflow, temperature setting
- Individual and group control (maximum 16 indoor units)
- Error display
- Mode selection protection
- Touch screen control (MWR-SH10N)


MWR-SH00N


MWR-SH10N

Wi-Fi Control Module | MIM-H03N

- Control via mobile app (available to download)
- On/off, operation mode, fan speed, airflow, Temperature setting
- 7-Day schedule setting
- Energy monitoring

Wireless Signal Receiver | MRK-A10N

- On/off control
- Operation indication
- Error indication
- Filter replacement sign
- Use with receiver wire, MRW-10A

External Room Sensor | MRW-TA

- External sensor to sense exact user environment temperature
- Wire length: 12m

Control System
Centralised control

Touch Centralized Controller | MCM-A300N

- 7-Inch color capacitive touch screen
- Easy and intuitive UI
- Individual/zone control, scheduling, Energy saving control
- Emergency operation control by external contact
- Control up to 128 indoor units
- DS card for programming and data download

Easy and Intuitive UI

- Various icons based on equipment and operation condition
- Smart phone style user-friendly control
- Individual/group management

Control and Monitoring

- Easy to check each device's status using color and icon
- Large-size icons for ease of use
- High and low temperature limitation settings
- Individual unit restriction settings

Zone Management for multiple units

- Manage up to 12 zones
- Simply control zones with one button
- Set unique zone description icons to easily recognize each zone
- Easily bind multiple indoor units to create a zone

Schedule Control

- Set up to 10 operation schedules
- Apply these schedules to any unit or zone
- Create operation events for each schedule, including: temperature setting, mode and fan speed

Control System
Building management – Server

DMS 2.5 (Data Management Server) | MIM-D01AN

The improved Data Management Server has become smarter: it can manage a variety of different air conditioning units, and the newly upgraded functions can automatically manage the air conditioning system for you.

- Built-in web server for PC-independent management and remote access control
- Multiple upper-level control access (S-NET 3, Web-client)
- Central management of up to 256 indoor units including ERV, ERV PLUS AHU, DVM chiller and FCU Kit
- User-editable control logic
- Accessible level management
- Dynamic security management
- Operation and error history management
- Weekly/Daily schedule control
- Power distribution function
- Current time management even during power failure (for 24 hours)
- Data storage in non-volatile memory and SD memory
- Emergency stop function with simple contact interface
- 8 External inputs and 6 outputs provide control and monitoring for third-party devices

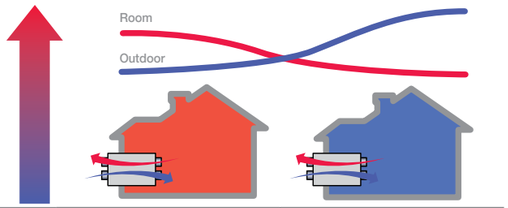
Enhanced Graphical Display

Control System
Building management – Server

DMS 2.5-BMS

Programmable control logic

- The user can control the air conditioning, ERV, AHI and digital outputs using an arithmetic equation and conditional operators/ parameters from the equipment operating conditions including volt-free inputs from external equipment.
- Control logic can utilise the 8 external inputs and 6 outputs, permitting interaction between air conditioning and third-party devices.
- Using this powerful functionality, energy can be efficiently used and reduced for various operation conditions.



Logic	Outdoor temp < Room temp	Room temp < Outdoor temp
Control	Turn ON ERV (Cool air Intake UP)	Turn ON Air Conditioner

EHP / ERV / AHU Parameters
Temperature, Power, Mode...

AND
OR

Outdoor temp < 10	Outdoor temp > 25
Heating mode	Cooling mode

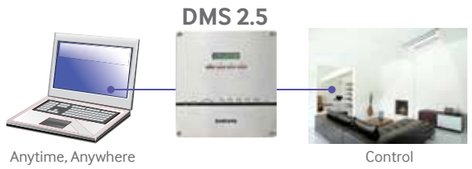
Arithmetic Equation Function
<, >, =, =>, =<, Average

EHP / ERV / AHU Parameters change
Setting temperature, Power, Mode, Fan speed...

*Example: Energy saving function, operation adjustment depending on outdoor temperature.

Easy control and monitoring

- Control and monitoring of up to 256 indoor units via internet network
- Operation On/Off
- Operation mode, fan speed, temperature setting
- ERV, ERV PLUS, AHU, DVM chiller, FCU Kit support



Specification		Attribute/Function
Indoor Unit Connection	(Max.)	256 Indoor Units (128 per channel)
Outdoor Unit Connection	(Max.)	80 Outdoor Units
Indoor Unit Control	-	All Indoors, ERV, AHU, DVM chiller, FCU Kit
Dimensions (WxHxD)	mm	240 x 255 x 65
Power	-	100–240V AC (DC adaptor)
Communication	Lower Level	RS485 (to Outdoor/PIM)
	Upper Level	Ethernet 100 Base-T (web browser)
Direct Interface	-	LCD Display (4 soft keys), LED Indicators
PIM Connection (MIM-B16)	(Max.)	8
Touch Screen Connection (MCM-A300N)	(Max.)	16
Emergency Stop	-	Pulse or Level Input
Inputs	(Max.)	8 Volt-free (Open/Short)
Outputs	(Max.)	6 Contact Signal (12V)
Programmable Logic (per condition) – Boolean logic	-	3 Logic Functions (per input)
	-	20 Output Logic Factors

Control System
Building management – Gateways

A DMS2 with built-in BACnet or LonWorks gateways
(all the features of a DMS2, plus interface to your chosen BMS).

BACnet Gateway | MIM-B17BN (DMS-Bnet)

With the BMS control and monitoring function, BACnet gateway makes it easy to control the air conditioning network in various ways. It can control up to 256 indoor units, used in combination with S-NET 3 and MCM-A300N.

- Interface for BACnet management system
- Maximum 256 indoor units plus ERVs support with a maximum of 80 interface modules
- Includes DMS 2.5 functions

LonWorks Gateway | MIM-B18BN (DMS-Lnet)

LonWorks gateway is an interface for Lon-Connection to LonWorks management system, providing a more convenient way to manage your air conditioning system. It can control a maximum of 128 indoor units, used in combination with S-NET 3 and MCM-A300N.

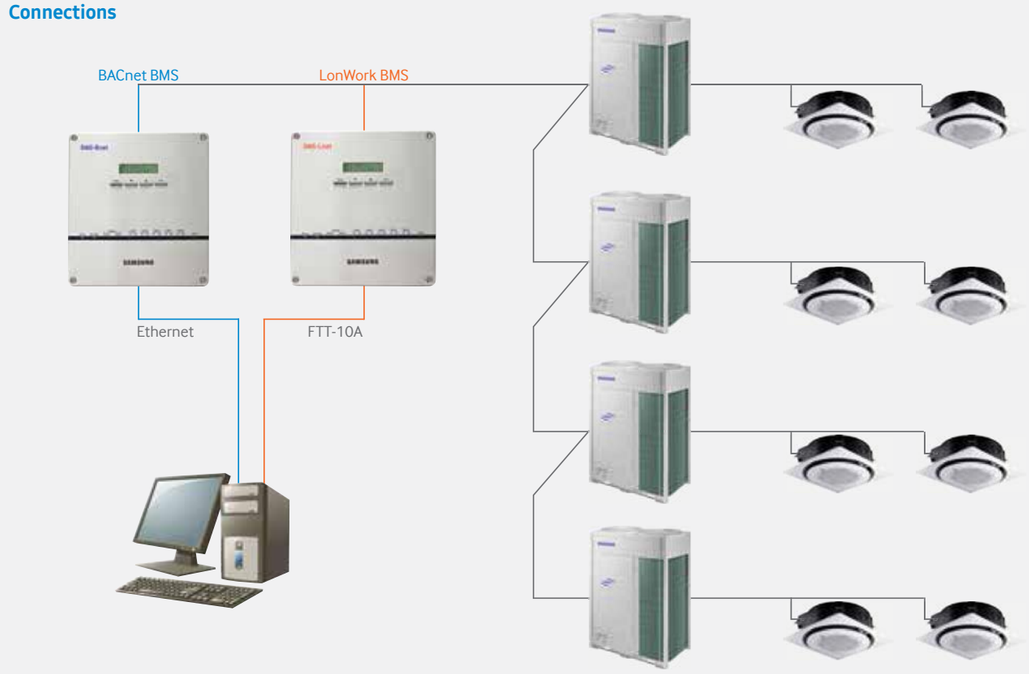
- Interface for Lon-Connection to LonWorks management system
- Maximum 128 indoor units plus ERVs support with a maximum of 80 interface modules
- Includes DMS 2.5 functions

Features for BACnet and LonWorks Gateways

Control	• On/Off control	• Filter alarm reset
	• Operation mode	• User control restriction
	• Temperature setting	• Operation mode lock
	• Fan speed/direction	• Set temperature limit
	• ERV operation mode	• Emergency stop
	• ERV fan speed	• Output contact control
Monitoring	• On/Off control	• Thermo On/Off
	• Operation mode	• Power distribution
	• Set/Room temperature	• Operation mode lock
	• Fan speed/direction	• Set temperature limit
	• ERV operation mode	• In/Out contact state
	• ERV fan speed	• Emergency stop
	• Filter alarm	• Error code
	• User control restriction	

***Contact supplier for MODBUS & KNX Gateways**

Connections



Control System

Web Server – External Contact Interface

Web Server, S-NET 3 | MST-P3P

A PC programme designed to manage an estate of air conditioning systems via DMS2 Data Management Servers.

- Fully integrated PC management software
- Up to 16 DMS 2 connection through the ethernet
- Central management of up to 4,096 indoor units including ERV, ERV PLUS and AHU
- Schedule/Zone control
- Error/Operation history management
- Power distribution management and analysis

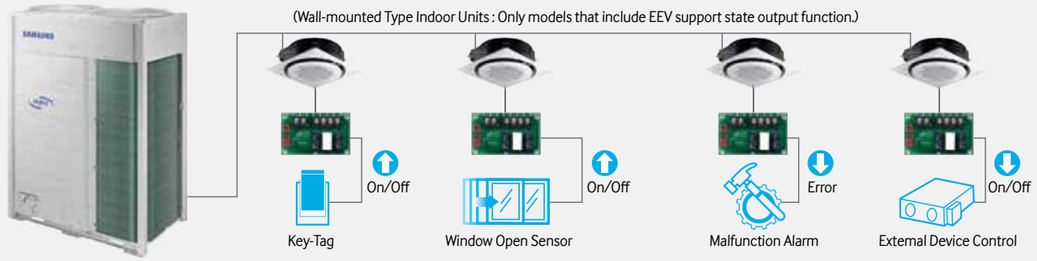
External Contact Interface | MIM-B14

- 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

Guestroom Management Module

Guest Room Management system saves you energy and money on cooling unoccupied rooms.
The air conditioner is activated when Key-Tag is in place and turns off when Key-Tag is removed.

Example



Control System

Line-up

CLASSIFICATION		PRODUCT	IMAGE	MODEL: DVM, CAC (New Communication Protocol)	MODEL: CAC, FJM	APPLICATION
Integrated Management System	Controller	S-NET 3		MST-P3P	MST-P3P	Excluding(DVM chiller, FCU kit)
		DMS 2.5		MIM-D01AN MIM-D01ARN (*)		Including(DVM chiller, FCU kit) (*) : Turkish
	Interface Module	PIM (Electricity meter)		MIM-B16N MIM-B16RN (*)	MIM-B16	Excluding(ERV, DVM chiller, FCU kit) (*) : Turkish
		SIM (RS485 Comm. Electricity meter)		MIM-B12RN (*)		Excluding(ERV, DVM chiller, FCU kit) (*) : Turkish
Building Management Module	Building Management	ZenManager		MST-R5D	MST-R5D	Mobile
	Gateway	LonWorks Gateway(New)		MIM-B18BN MIM-B18RN (*)		Including(DVM chiller, FCU kit) (*) : Turkish
		BACnet Gateway(New)		MIM-B17BN MIM-B17RN (*)	MIM-B17	Including(DVM chiller, FCU kit) (*) : Turkish
	Interface Module	LonWorks Gateway Interface		-	MIM-B07	
System Controller	Centralised Control System — Controller	Centralized Touch Controller		MCM-A300N	-	
		On/Off Controller		MCM-A202DN MCM-A202DRN (*)	MCM-A202D	(*) : Turkish
		Operation Mode Selection Switch		MCM-C200	-	DVM S Series (Except HR Models)
	Centralised Control System — Interface Module	External Contact		MIM-B14	MIM-B14	
		MTFC (Multi Tenant Function Controller)		MCM-C210N		
		Centralized Control Interface Module		-	MIM-B13D	For connecting Centralized control system
				MIM-N10	MIM-N10	ERV
		FCU interface module		MIM-F10N		
		Compatible interface module		MIM-N01	MIM-N01	Old & New protocol
	Individual Control System — Controller	Zone Control Package (Zone Controller & Relay)		MWR-ZS00N	MWR-ZS00	Duct S Inverter Models
		Zone Controller		MWR-ZS10N	MWR-ZS10	Duct S Inverter Models
		Wired Remote Controller		MWR-WE11N MWR-WE11RN (*)		360 CST air folw display (*) : Turkish
				MWR-WE10N MWR-WE10RN (*)	MWR-WE10 MWR-WE10R (*)	(*) : Turkish
				MWR-WW00N MWR-WW00RN (*)	-	DVM S Hydro Unit (*) : Turkish
		Wired Remote Controller		MCM-A00N		For DVM chiller
		Wired Remote Controller		-	MWR-WH00	Connect Wire length : 10m (SEC)
					MWR-WH02	Connect Wire length : 3m (SSEC)
		Simplified wired Remote Controller		MWR-SH10N MWR-SH10RN (*)		Touch controller, Built in Temperature sensor (*) : Turkish
		Simplified wired Remote Controller		MWR-SH00N	MWR-SH00	
		Simplified wired Remote Controller		MWR-VH12N MWR-VH12RN (*)	MWR-VH02	ERV, (*) : Turkish
		Wireless Remote Controller (H/P)		MR-EH00 MR-EH00R (*)	MR-EH00	(*) : Turkish
		Wireless Remote Controller (C/O)		MR-EC00	MR-EC00	
		Wireless Remote Controller		AR-KH00E AR-KH00R (*)		360 CST dedicated (*) : Turkish
		Wi-Fi Kit		MIM-H03N MIM-H03RN (*)	MIM-H03 MIM-H03R (*)	(*) : Turkish
		RAC Extension Board		-	MIM-A00	For connecting wired remote controller and external contact interface module
		FCU Kit		MIM-F00N		For connecting wired remote controller
		Wireless Signal Receiver package (With Receiver wire)		MRK-A10N	MRK-A10N	DVM S Series (for Ducted indoor unit) Single Global Duct
	Sensor	External Room Sensor		MRW-TA	MRW-TA	
		External Room Sensor		MRW-TS	MRW-TS	For Zone Controller
		ERV CO2 Sensor		MOS-C1	MOS-C1	
Test Run Tool		S-Converter (S-NET Pro)		MIM-C02N MIM-C02RN (*)	MIM-C02N	Converter for communication with PC (*) : Turkish
		S-Checker		MIM-C10N	-	Connection with mobile device

Selection/Software support:

Samsung provides software selection, CFD analysis, energy simulation for our VRF system and some products to the architect, designer and contractor for modelling.

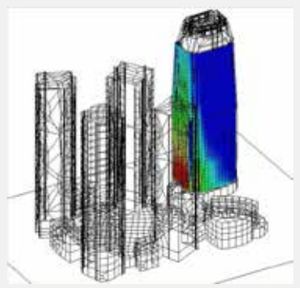
DVM Pro Design Software

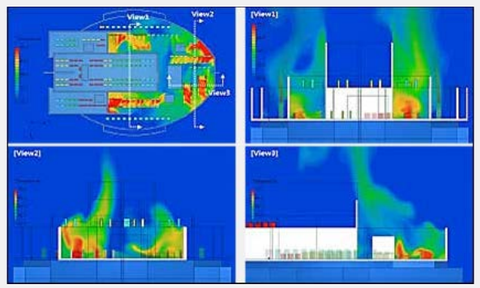
CAD mode – The CAD mode provides quick, easy, precise design, enabling users to customize their air conditioning system using AutoCAD add-on software. (AutoCAD is not included in New DVM-PRO.) This mode features:
- Automatic calculation: (Refrigerant & drain pipe size)
- Automatic selection: (Ref net joint, header and distributor kit)
- System check: Installation regulation and refrigerant addition
- Control system selection: Easy control system selection
- Automation report: Piping installation diagram, equipment list and quotation

Sales Mode – The Sales mode enables users to customize their air conditioning system by selecting from the following categories:
- Connection
- Piping
- Wiring
- Control system
- Report

CFD Analysis

- Samsung provides CFD analysis for the building for below
- Temperature profile
- Noise analysis
- Indoor/Outdoor Air Flow Analysis





DVM Mobile

- News & notice
- Marketing survey
- Video clips
- Control & solution
- Product specifications
- Capacity chart
- SEER/SCOP
- Energy simulation
- Noise calculation
- Refrigerant amount calculation
- Refrigerant properties calculation
- Unit converting
- Error code
- Psychrometric calculation
- About
- Settings

DVM E-Solution

Samsung provides energy simulation at desired conditions for the projects at various temperature.

- Specifications
- Capacity
- SEER/SCOP
- Energy simulation
- PDM kit
- Report
- Settings
- About

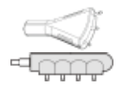
SNET Pro 2 Service Software

This is used to monitor and program Samsung DVMS system

Accessories

Classification	Image	Model		APPLICATION
		DVM S (New Communication Protocol)	CAC, FJM	
Drain Pump		MDP-E075SEE3D	MDP-E075SEE3	Slim Duct(2.0 ~ 14.0 kW)
		MDP-M075SGU1D	MDP-M075SGU1	M.S.P Duct(9.0/11.2 kW)
		MDP-M075SGU2D	MDP-M075SGU2	M.S.P Duct(12.8/14.0 kW) H.S.P Duct(11.2/14.0 kW)
		MDP-M075SGU3D	MDP-M075SGU3	M.S.P Duct(5.6/7.1 kW)
		MDP-N047SNC0D		Fresh Air Intake Duct (14.0 kW)
		MDP-N047SNC1D	MDP-N047SNC1	H.S.P Duct(22.4/28.0 kW) Fresh Air Intake Duct (22.4/28.0 kW)
		-	MDP-G075SP	Global Duct (External Type)
		-	MDP-G075SQ	Global Duct (Internal Type)
AHU Kits		MXD-K025AN	-	7.0 ~ 8.75 kW AHU
		MXD-K050AN	-	14.0 ~ 17.5 kW AHU
		MXD-K075AN	-	21.0 ~ 26.25 kW AHU
		MXD-K100AN	-	28.0 ~ 35.0 kW AHU
		MXD-A64K100E	-	AHU EEV Kit (10HP)
		MCM-D201N	-	Control Kit (PBA, 10HP~40HP)
4 Way Wind-free Cassette Front Panel		PC4NUFDAN		Wind-Free, 4WAY / Panel
4 Way Wind-free Cassette Front Panel (600x600)		PC4SUFDAN		Wind-Free, 600X600 / Panel
1 Way Wind-free Cassette Front Panel		PC1MWFMAN		Wind-Free, 1way panel (1.7~2.2kW)
		PC1NWFMAN		Wind-Free, 1way panel (2.2~3.6kW)
		PC1BWFMAN		Wind-Free,1way panel (5.6~7.1kW)
4 Way Cassette Front Panel		PC4NUDMAN	PC4NUDMAN	NASA, Square
		PC4NBDMAN	PC4NBDMAN	NASA, Square - Black
		PC4NUNMAN	PC4NUNMAN	NASA, Circle (Exposed installation)
		PC4NBNMAN	PC4NBNMAN	NASA, Circle (Exposed installation) - Black
4 Way Cassette Front Panel		PC4NUSKAN	PC4NUSKA (Korea) PC4NUSMA (China)	4Way Cassette S - Waffle
		PC4NUSKEN	PC4NUSKE (Korea) PC4NUSME (China)	4Way Cassette S - Classic
		PC4NUSKFN		4Way Cassette S - Classic (North America)
		PC4NBSKAN	PC4NBSKA	4Way Cassette S - Black
		-	P4SMA	4Way Cassette
4 Way Cassette (600 x 600) Front Panel		PC4SUSMAN	PC4SUSMB	4Way Cassette S (600x600) -Waffle
		PC4SUSMEN	PC4SUSMF	4Way Cassette S (600x600) -Classic
1 Way Cassette Front Panel		PC1MWSKAN	-	1Way Cassette (New Air Fluid Design) (1.7~2.2kW)
		PC1NUSMAN	PSSMA	Slim 1Way Cassette (2.2~3.5kW)
		PC1BWSEAN	-	Slim 1Way Cassette (5.6~7.1kW)
		PC1NUPMAN	PC1NUPMA	Slim 1Way Cassette Z-Sliding (2.2~3.5kW)
		PC1BWPEAN	-	Slim 1Way Cassette Z-Sliding (5.6~7.1kW)
2 Way Cassette Front Panel		PC2NUSMEN		2Way Cassette
Virus Doctor		MSD-CAN1	MSD-CAN1	4Way Cassette S 4Way Cassette S (600x600)
		MSD-EAN1	MSD-EAN1	ERV, Global Duct
Motion Detect Sensor		MCR-SMA	MCR-SMA	4Way Cassette S (600x600)

Accessories

Classification	Image	Model	Description	APPLICATION
Y- joint		MXJ-YA1509M	15.0kW and below	DVM S
		MXJ-YA2512M	Over 15.0 ~ 40.6kW and below	
		MXJ-YA2812M	Over 40.6 ~ 46.4 kW and below	
		MXJ-YA2815M	Over 46.4 ~ 69.6 kW and below	
		MXJ-YA3419M	Over 69.6 ~ 98.6 kW and below	
		MXJ-YA4119M	Over 98.6 ~ 139.2 kW and below	
		MXJ-YA4422M	Over 139.2 kW	
Y-joint (High Pressure Gas) for HR module		MXJ-YA1500M	23.2 kW and below	DVM S HR
		MXJ-YA2500M	Over 23.2 ~ 69.6 kW and below	
		MXJ-YA3100M	Over 69.6 ~ 139.2 kW and below	
		MXJ-YA3800M	Over 139.2 kW	
Outdoor Joint (Outdoor Connection)		MXJ-TA3419M	Below 48 HP	DVM S
		MXJ-TA4122M	Over 48 HP	
Outdoor Joint (High Pressure Gas) for HR Module		MXJ-TA3100M	Below 48 HP	DVM S HR
		MXJ-TA3800M	Over 48 HP	
DPM Y-joint		MXJ-2D2509K	2-indoor unit connection	CAC Inverter(4way, 4way 600x600)
		MXJ-3D2509K	3-indoor unit connection	
		MXJ-4D2509K	4-indoor unit connection	
Header Joint		MXJ-HA3819M	Over 69.7 kW	DVM S
		MXJ-HA3115M	Below 69.6 kW	
		MXJ-HA2512M	Below 46.4 kW	
MCU Kits		MCU-S2NEK1N	Below 2 indoor units	DVM S HR
		MCU-S4NEE1N	Below 4 indoor units	
		MCU-S4NEE2N	Below 4 indoor units For including the indoor unit of capacity range 11.2 ~ 28.0kW	
		MCU-S6NEE1N	Below 6 indoor units	
EEV Kits		MXD-E24K132A	Below 3.6 kW (1 Room) + 5.6 kW ~9.0 kW (1Room)	DVM S
		MXD-E24K200A	Below 3.6 kW (2 Rooms)	
		MXD-E32K200A	5.6 kW~9.0 kW (2Rooms)	
		MXD-E24K232A	Below 3.6 kW (2 Rooms) + 5.6 kW ~ 9.0 kW (1Room)	DVM S
		MXD-E24K300A	Below 3.6 kW (3 Rooms)	
		MXD-E32K224A	Below 3.6 kW (1 Room) + 5.6 kW ~ 9.0 kW (2Rooms)	
		MXD-E32K300A	5.6 kW ~ 9.0 kW (3Rooms)	
		MEV-E24SA	Below 3.6 kW (1 Room)	DVM S
		MEV-E32SA	5.6 kW ~ 9.0 kW (1Room)	
Anti-Corrosion Spray		MOK-220SA	R-Pro	

Notes: