

Highlights for 2021

DVM S2

Samsung has been manufacturing DVM (Digital Variable Multi) outdoor units for 20 years. For 2021, Samsung introduces the next generation of VRF (Variable Refrigerant Flow) and the new DVM S2 range.

The current DVM S platform has been succeeded by the new DVM S2 range as the sixth generation of its Digital Variable Multi. The DVM S2 offers improved seasonal energy efficiency as compared to the current DVM S range. Artificial Intelligence (AI) control capabilities helps to optimize climate conditions based on diverse environment. This increases efficiency and performance without compromising on comfort. Additionally the DVM S2 offers enhanced installation and serviceability, all in a quieter unit made possible by outstanding noise reduction. In addition, the new range makes it easier to select units based on the streamlined indoor line up.



- Energy Efficiency Redesigned to reduce the operating costs in the core components with unique echnologies that are significantly more efficient.
- · Active AI Optimizes itself intelligently, based on machine learning about the installation conditions and usage patterns, so it always works efficiently and effectively.
- Refrigerant Reduction Uses less refrigerant as it has a slimmer liquid line. Advanced Flash Injection Features the AFI (Advanced Flash Injection) Compressor™ which delivers an incredible heating performance. Performs well at even lower temperatures, providing non-stop comfort in the coldest conditions.



Unique Indoor Range

Samsung's unique WindFree™ cooling disperses fresh air gently and evenly through thousands of micro-holes, creating "Still Air" conditions¹. It allows people to live, work and relax comfortably without experiencing unpleasant cold drafts.

Another signature technology Samsung 360 Cassette 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, but it also blows cool air in all directions, so that the whole room is the same temperature².











ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents movi 'Within a 9.3 m radius the temperature difference is less than 0.6 °C. The test was carried out in the Samsung internal test lab

Premium Panels

Samsung is introducing Air Purification Panels, for the WindFree™ 1-Way and 4-Way Cassette and 360 Cassette. The washable filters provide easy maintenance and have been verified by Intertek for 99 % removal of certain types of bacteria with the use of the sterilization test³.

Another highlight is the Auto Elevation Panel which simplifies installations for end users or service engineers and provides greater safety with the use of single click. Available for the WindFree™ 4-Way Cassette and 360 Cassette.



Air Purification Panel

- PM 1.0 Filter
- Indoor air quality indication
- Maintain comfort with WindFree™

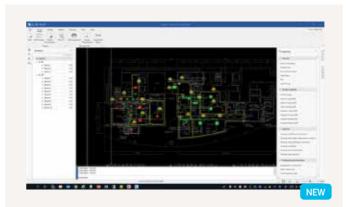


Auto Elevation Panel

- Fasy and safe maintenance of the
- ilter therefore indoor air quality Dedicated remote controller

DVM Pro 2.0

Samsung DVM Pro 2.0 is an advanced design automation program that helps you design your air conditioning system more easily and precisely. You can simply select the most suitable equipment from the entire range of Samsung air conditioner products and design the system with its user-friendly interface, which significantly improves usability. And, it helps to ensure that the system's design complies with Samsung's engineering guidelines. The ability to export reports, pipe and wire diagrams, additional refrigerant values and other information make Samsung DVM Pro 2.0 a powerful tool for you as an engineer, designer or installer.



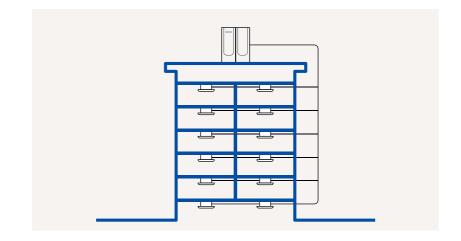
- Design in CAD mode without the need of AutoCAD
- BIM Library (bimobiect.com) for Revit®
- Fast and user friendly product selection
- Complete product database
- Real time system check for design errors
- Quick and easy piping length and refrigerant calculation and reporting tool

of Samsung Electronics can sterilize the certain types of bacteria that collected on the filter. (Escherichia coli: above 99 %, Staphylococus aureus: above 99 %)

Product overview

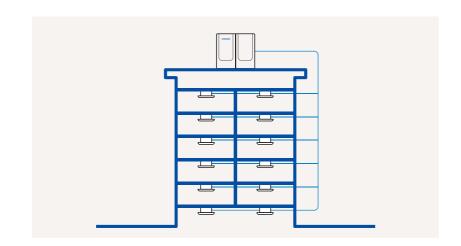
VRF (DVM)

A Samsung VRF air conditioning system offers high installation flexibility with the new DVM S2 platform outdoor units, which can connect to up to 64 indoor units. This is an ideal solution for medium-sized to large commercial buildings, with the option of independently cooling or heating multiple rooms simultaneously.



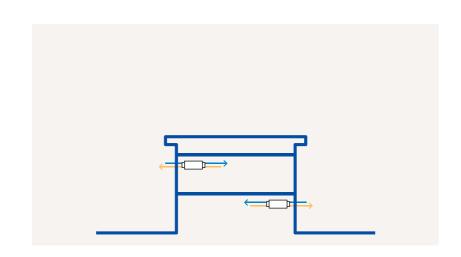
VRF Chiller (HVM)

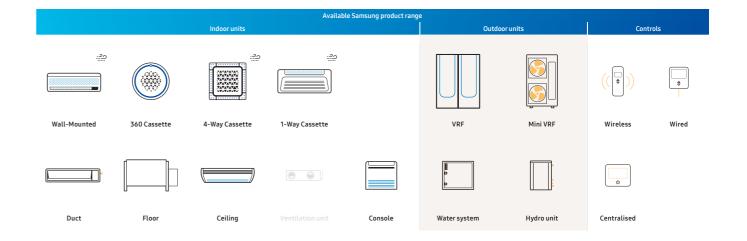
A Samsung VRF Chiller air conditioning system follows a modular concept with the option of combining up to 16 HVM outdoor units to form one climate solution, which can be connected to a wide range of Fan Coil Units. The system utilises water for comfortable cooling and heating of any type of space.

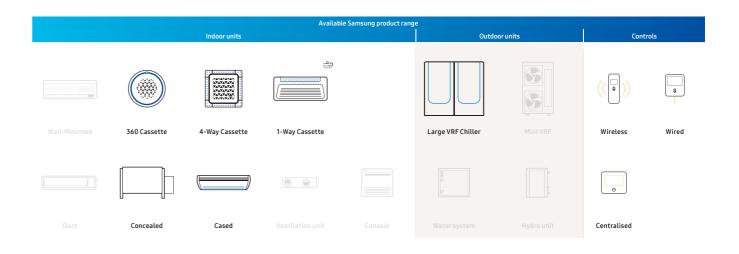


Ventilation (ERV)

A Samsung ERV system brings fresh outside air into a room to optimise indoor air quality, while automatically adjusting its operation mode in accordance with indoor and outdoor temperatures. It can be connected to a Samsung VRF system to form a total climate









Schematic drawings are for illustrative purposes only. For accurate installation information please consult the technical data book. The selection of the exact product is subject to specific application conditions. FCU = Fan Coil Unit. For more detailed product information and technical specifications, please consult the respective product pages of this Product Catalogue.

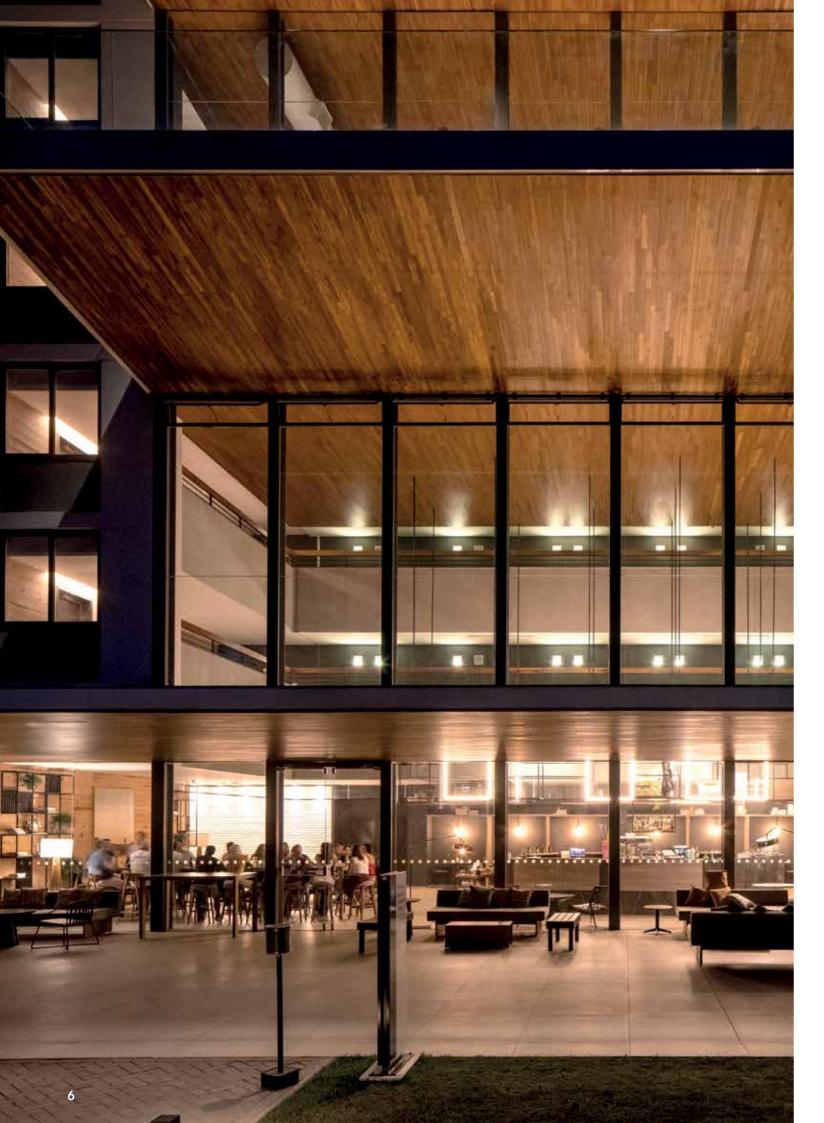


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LSP Slim Duct NEW

MSP/HSP Duct S NEW

WindFree™ Deluxe

WindFree™ 4-Way Cassette UNIQUE

WindFree™ 1-Way Cassette UNIQUE

360 Cassette UNIQUE

ERV (Plus)

Air Handling Unit (AHU) Kit

b.loT

VRF (DVM)

Line-up outdoor

Line-up indoor

Selection guide

Nomenclature

DVM S Eco Heat Pump

DVM S2 Essential Heat Pump (2-Pipe)

DVM S2 Standard Heat Pump (2-Pipe)

DVM S2 High EER Heat Pump (2-Pipe)

DVM S Eco Heat Recovery

DVM S2 High EER Heat Recovery (3-Pipe)

DVM S Water

WindFree™ 4-Way 600 x 600 Cassette UNIQUE

WindFree™ 4-Way Cassette UNIQUE

WindFree™ 1-Way Cassette UNIQUE

360 Cassette UNIQUE

LSP Duct

MSP Duct

MSPDU

HSP Duct

Console

Floor/Ceiling Big Ceiling Concealed Floor-Standing

Concealed Floor-Standing High Static Pressure

Packaged Floor-Standing

Boracay Wall-Mounted (EEV included and EEV excluded)

WindFree™ Deluxe (EEV included and EEV excluded)

Max Wall-Mounted

Hydro Unit

Mode Control Unit (MCU)

AHU Kit for Outdoor Unit

VRF Chiller (HVM)

Line-up outdoor

Line-up indoor

Selection guide

Nomenclature HVM Chiller

WindFree™1-Way Cassette FCU

4-Way Cassette FCU

360 Cassette FCU

Concealed FCU

Cased FCU

Ventilation (ERV)

ERV

ERV Plus for DVM S

OAP Duct for DVM S

Controls

Line-up

Selection guide

Features and dimensional drawings

Accessories

Line-up

Design and support

Samsung Climate Solutions Partner Portal

Samsung DVM Pro 2.0 NEW

Samsung HVM Selection Tool

Samsung specialist design support

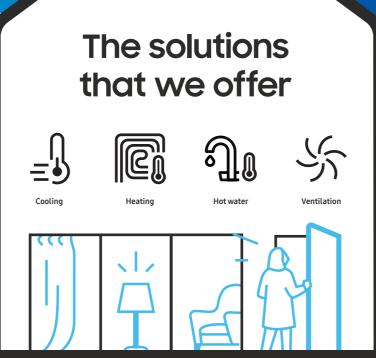
Samsung Climate Solutions Academy

This document may either contain preliminary values or may lack some values that were not yet available at the time of creation. To obtain the latest information, please consult the Samsung Climate Solutions Partner Portal at partnerhub.samsung.com/climate or contact your Samsung representative.

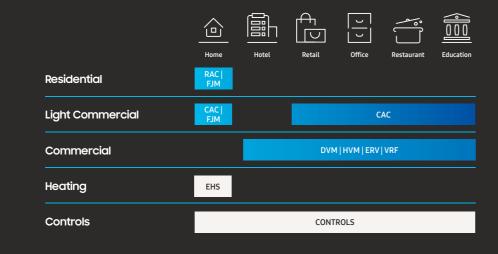
Samsung Climate Solutions at a glance

At Samsung, we are redefining indoor climate comfort for tomorrow's society. We provide cutting-edge innovations and intelligent digital connectivity solutions.











Services we provide to empower our partners

Corporate and Technology milestones that make us proud

1974

Samsung introduces its first air conditioner.

2005

Samsung Electronics enters the European market for commercial air conditioning 2017

Samsung Electronics opens Samsung Electronics Air Conditioner Europe B.V. (SEACE) in Amsterdam.

2014



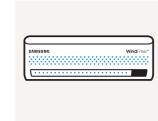
Arrival of the Samsung TDM concept, an all-in-one heat pump solution for heating, cooling and domestic hot

2015



Introduction of the Samsung 360 Cassette. the world's first circular air conditioner that fits seamlessly into the design of

2017



Samsung WindFree™ technology comes onto the market, gently and evenly dispersing fresh air through thousands of micro-holes to limit cold drafts.

2021



Samsung launches the sixth generation of its Digital Variable Multi the DVM S2 equipped with AI technology, enhanced energy efficiency performance, easier installation and serviceability.

WindFree™



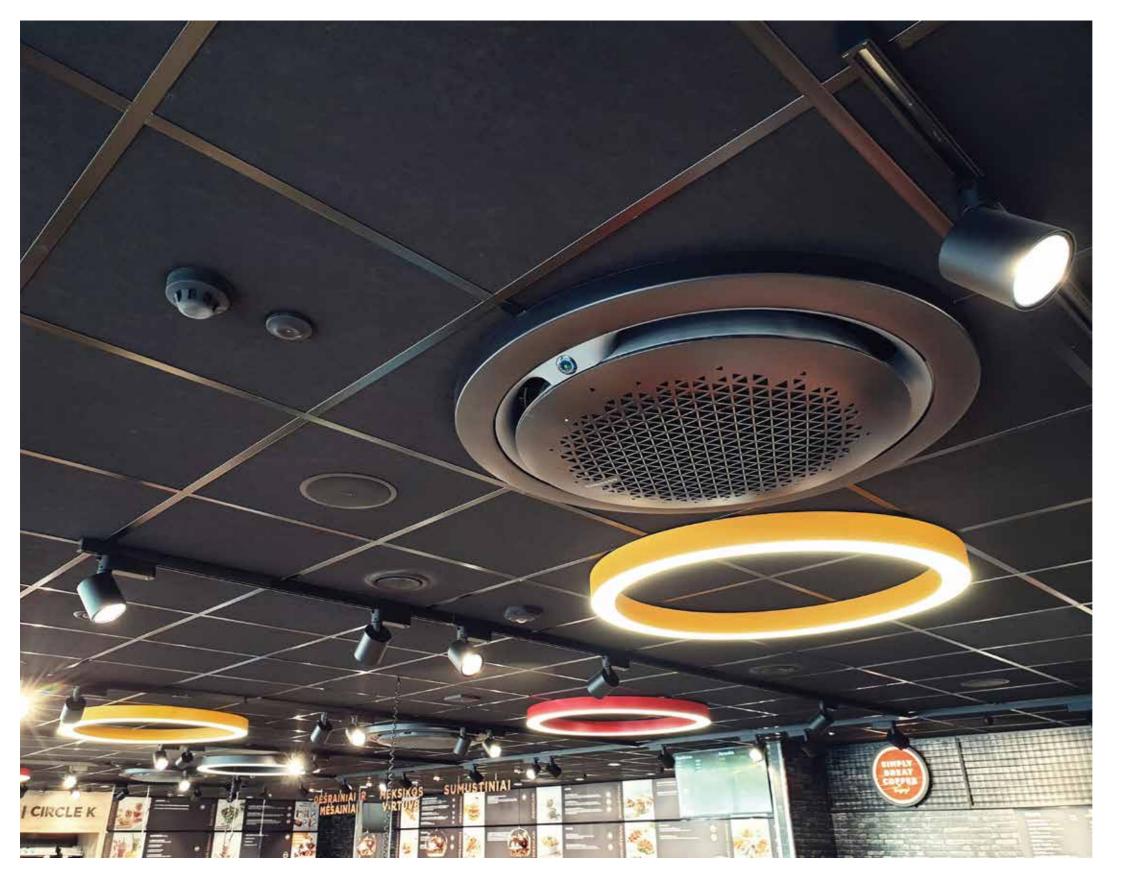


Our flagship innovations that enrich people's lives

Our European footprint with the locations from which we operate

1 | Samsung Electronics Air Conditioner Europe B.V.

Samsung reference projects in the spotlight Circle K





Zigmundas Kepalas

Manager Real Estate Development

Circle K Lietuv Savanoriu pr. 404B, Kaunas

"Circle K is one of the largest gas station chains in Lithuania which offers premium products and excellent service. In 2016 we developed a new retail store concept featuring a black ceiling. To complement the redesign of the stores, we looked for air conditioners that would fit seamlessly with our upgraded design. The Samsung 360 Cassette proved to be the best solution for us. The 360 Cassette evenly distributes air inside the stores to create the perfect microclimate for customers and operators and the round design and black-colored panels perfectly fit the interior. The unit is also easier to maintain compared to other air conditioners, and blade dust is eliminated due to its bladeless design. We have installed a total of eighty 360 Cassettes at our stores throughout Lithuania."

Application



Reta

Samsung products installed











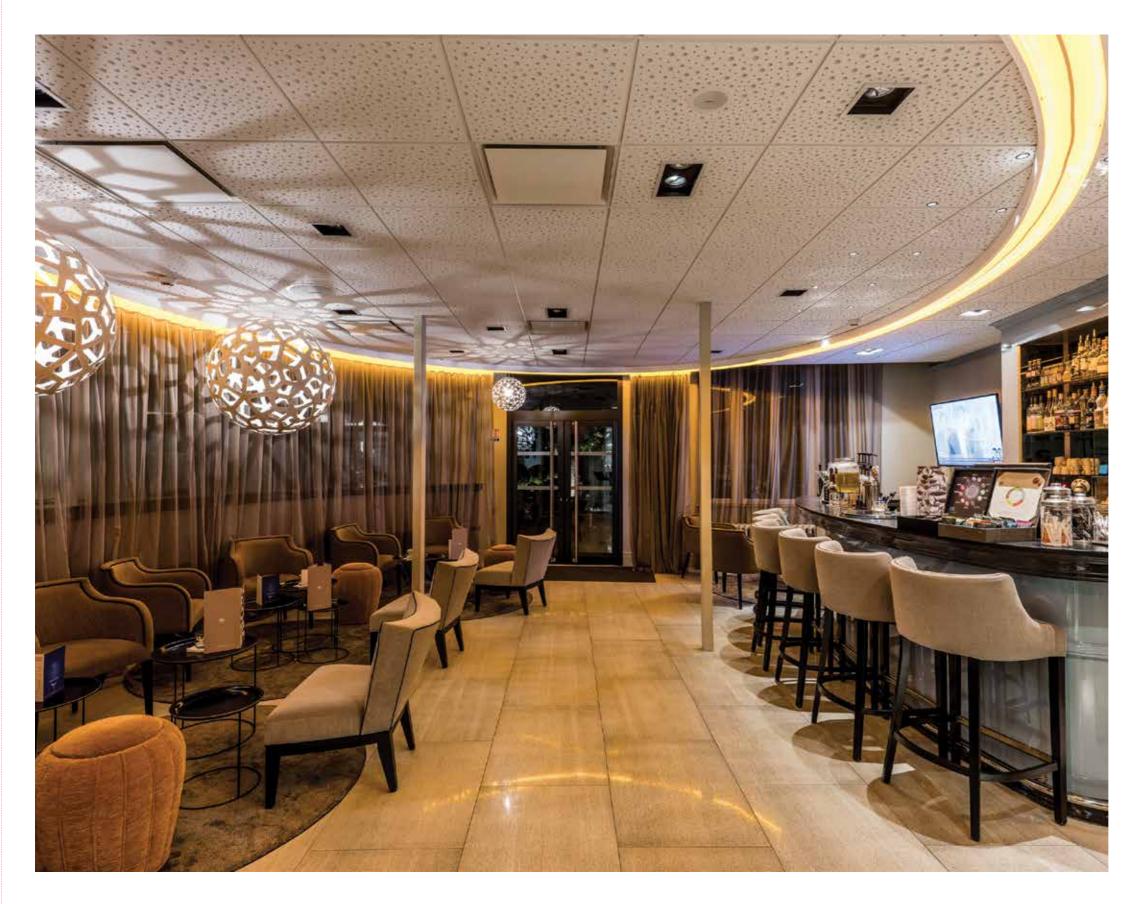
360 Cassette

WindFree™ -Way Cassette

ing unit

ted Commercial S Outdoor Un

Samsung reference projects in the spotlight Hotel Oceania le Jura





Marc Bonivert
Manager Hotel Oceania le Jura

Hotel Oceania le Jura

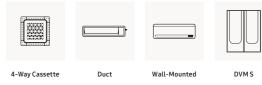
14 Avenue Maréchal Foch 21000 Dijon, France

"The Hotel Oceania le Jura is housed in a building constructed in the 18th century. For this reason, there is not enough space to install a large outdoor unit, which was a cause for concern when selecting air conditioning products. We eventually chose Samsung DVM S. Unlike a central chiller, the DVM S was the best choice for our hotel because we could install an outdoor unit with a small footprint in a compact space above the building."

Application



Samsung products installed



Regulations and standards

Samsung strives to provide customers with new eco-friendly experiences and lead the way to a sustainable future for the global community through innovative and eco-friendly products and technology. We monitor applicable environmental standards and laws and regulations in the context of our climate solutions operations. Samsung also conducts environmental improvement activities across all product development, production, distribution, use and disposal phases.

Ecodesign

The Ecodesign Directive for Energy Related Products (ErP) aims to raise awareness about the energy efficiency of products, while stimulating manufacturers to make their products more energy efficient from the design phase. The Directive is applicable to a broad range of cooling and heating products, which have been divided into different lots.

LOT 10 was implemented on 1 January 2013 and covers air conditioners with a capacity less than 12 kW, typically residential or light commercial systems. It requires manufacturers to provide highly visible

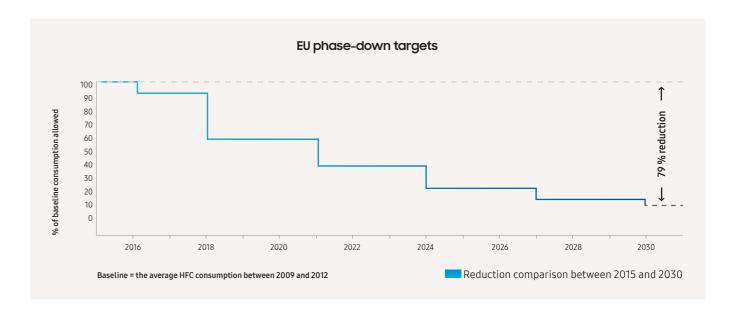
information regarding energy efficiency, including an energy label. LOT 1 and 2 took effect on 26 September 2015 and include residential air to water heat pumps for space heating and hot water production respectively (< 400 kW). It is mandatory to provide energy labels for products with a capacity less than 70 kW. On 1 January 2018, LOT 21 came into force. LOT 21 covers commercial cooling and heating products with a capacity greater than 12 kW. It does not require manufacturers to publish energy labels, but energy performance data should be made available online.

	LOTS 1/2	LOT 10	LOT 21
In effect since	26 September 2015	1 January 2013	1 January 2018
Applicable products	A2W heat pumps < 400 kW	Air conditioners <12 kW	Air conditioners >12 kW
Energy label required	~	~	
Samsung product range	EHS	RAC FJM CAC	CACIDVMIHVM

F-Gas regulation

The EU aims to reduce the environmental impact of F-gases through the reduction of the CO₂ equivalent consumption of HFCs (hydrofluorocarbons). EU regulation 517/2014 prescribes a phase-down of HFCs, where the quantities of HFCs that are placed on the market are gradually reduced through the allocation of quotas by the European Commission. The phase-down targets are expressed in CO₂ equivalents (= kg x GWP - Global Warming Potential) and aim to reduce HFC

consumption by 79 % in 2030. For new installations of single split air conditioners with a refrigerant charge below 3 kg, the GWP limit is set at 750 starting in 2025. The regulation has been put into force to motivate the industry and its users to transition to refrigerants with a lower GWP. Samsung is accelerating the transition towards lower GWP refrigerants, such as R32, and will continue its investments in environmentally friendly alternatives.



EN378 standard

Effective since 31 May 2017, the European EN378 standard provides guidance for companies who design, install, operate and maintain air conditioners, heat pumps and similar systems that use refrigerants. Based on the access characteristics of occupied spaces into which a refrigerant could leak, and an assessment of the refrigerant's toxicity and flammability, refrigerant charge limits are set and safety measures are prescribed to mitigate risk in the possible event of a refrigerant leakage.

Access categories range from general access areas, such as hotels, restaurants and shopping areas, to more restricted supervised and authorised areas.

The location of refrigerant systems follows a classification of four classes, where VRF systems are typically defined as Class II, either located in a machine room or in the open air. Subject to the available ventilation in rooms, additional measures may be needed such as mechanical ventilation or detectors.

Samsung offers specialist support to professionals in the design of cooling and heating installations. Please contact your Samsung representative to enquire about support in aligning your project design with the requirements of the EN378 standard.



Certifications

Intertek

Intertek is a leading Total Quality Assurance provider to industries worldwide verifying air quality¹. To deliver credibility, Intertek maintains extensive global accreditations and recognitions for testing and certification services. Working with Intertek helps showcase and maintain products' safety and performance attributes. Intertek's expertise in regulatory standards and certifications keeps you ahead of changes and challenges.

Intertek offers certification programmes that achieve market entry into a variety of global destinations, programmes for a more eco-friendly environment and also programmes to verify social accountability compliance for both manufacturers and suppliers.

Samsung's Tri-Care Filter, Air Purification Panels for WindFree™ Pure PM 1.0, WindFree™ 1-Way Cassette, WindFree™ 4-Way Cassette and 360 Cassette have been verified by Intertek.



Eurovent

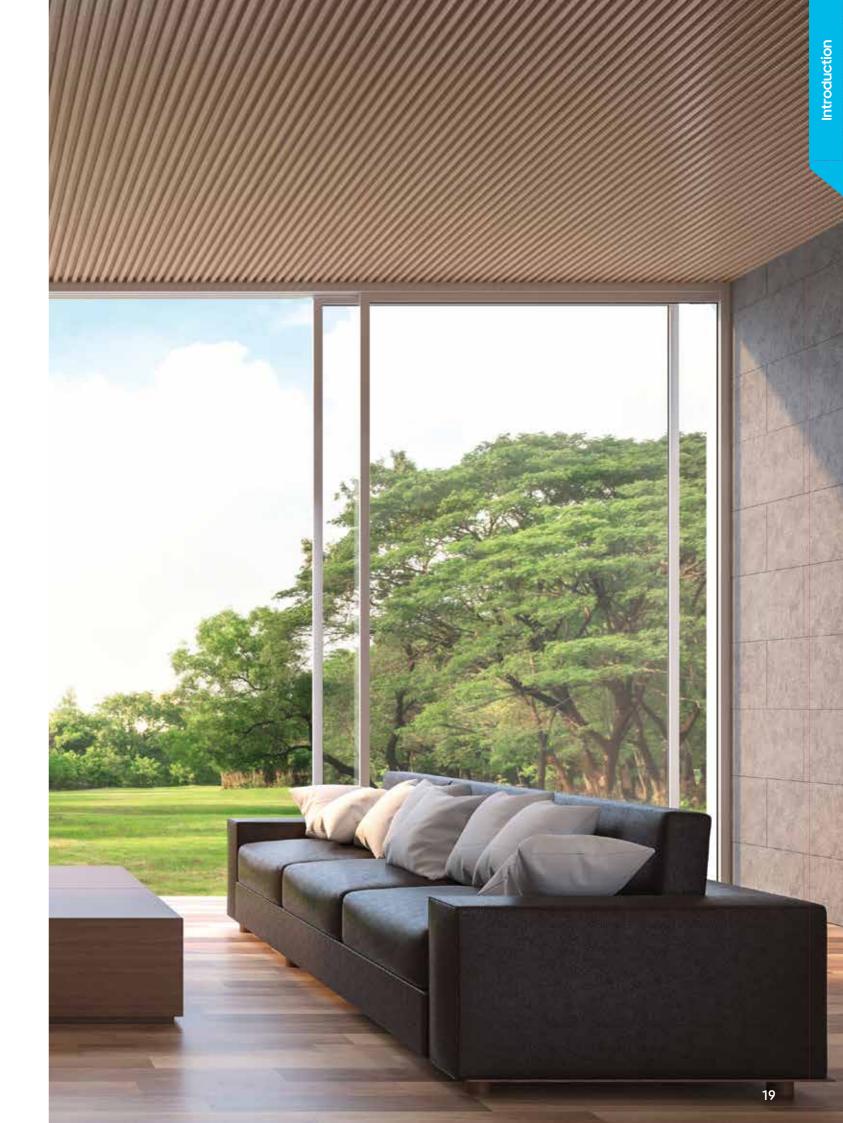
Eurovent is globally known for its quality mark 'Eurovent Certified Performance' which certifies performance ratings of air-conditioning and refrigeration products according to European and international standards. The 'Eurovent Certified Performance' mark indicates that the prescribed quality requirement has been fulfilled and should not require the need to be proven after the customer's decision and after the manufacturer's production process.

Eurovent is an accredited third-party certification body. It builds customer confidence by leveling the competitive playing field for all manufacturers and by increasing the integrity and accuracy of the industrial performance ratings. Thus providing trustworthy services to the entire ecosystem.

Samsung air conditioning products ranging from the Single Split (RAC), Multi Split (FJM), Commercial Split (CAC), Variable Refrigerant Flow (VRF) and Eco Heating System (EHS) line-up in the 'Air-to-Water' (A2W) heat pump category are all Eurovent certified.

To check the ongoing validity of the Eurovent certified products from Samsung, please visit: www.eurovent-certification.com





¹ Our products have not been tested for their effects on the COVID-19 virus. Therefore, we do not make or give any express or implied claims or guarantees with regard to COVID-19.



DVM S2

Higher Energy Efficiency

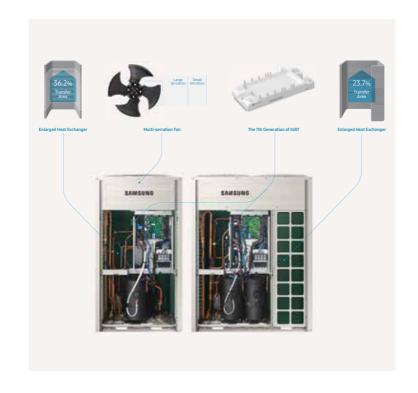
The DVM S2 is equipped with four innovative technology components that together result in the DVM S2 delivering greater energy efficiency.

The enlarged Heat Exchanger can transfer more energy at once, and its optimized refrigerant path maximizes the transfer rate while minimizing any loss. These heat exchanger allow for 36.2 % greater heat transfer area on a smaller platform¹ and 23.7 % greater heat transfer on a larger platform². The power module which is an integral part of the inverter system is improved as it lowers heat dissapation and saves energy.

The aerodynamic Multi-serration Fan minimizes the turbulence of the air vortex, which reduces the air resistance. The high efficiency Muti-Serranation fan lowers power consumption by 32 % while providing more airflow³. The unit uses a superior Samsung scroll compresser which makes the unit more energy efficient compared to the current DVM S range.

The High-efficiency IGBT (Insulated Gate Bipolar Transistor) reduces the loss of conducted electricity.

- DVM S2 equipped with larger heat exchanger than conventional model AM100JXVAGH/ET. HX Length: 1,700 mm → 1,910 mm. Platform Width: 880 → 930 [mm].
 DVM S2 equipped with larger heat exchanger than conventional model AM200KXVAGH/ET. HX Length: 2,100 mm → 2,600 mm.
 Multi serration fan adopted for small platform. Based on 12 HP models comparison.

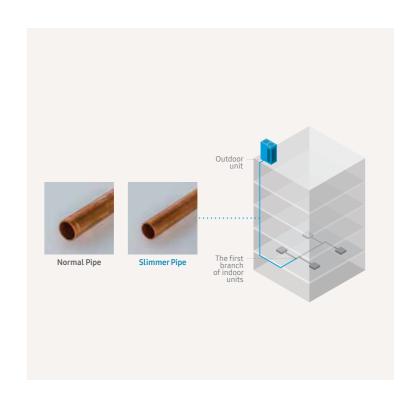


Slimmer Liquid Line -(Optional Diameter Reduction)

The DVM S2 requires less refrigerant as it uses a slimmer liquid line¹. So, it saves costs on the installation and maintenance of refrigerant and piping materials. In addition, by using less refrigerant it is more environmentally friendly, as it reduces CO₂ emissions. The decreasing of pipes has resulted in refrigerant reduction by 28 %². As long as the maximum piping length is met it is possible to install a liquid line pipe with a diameter that is one level smaller for the main run. This allows you to save on pipe and refrigerant usage. The innovative technology used caters to a sustainable solution but also saves cost.

- The diameter of the slimmer pipe will vary depending on the diameter of the pipe that is normally used. It may not be available in certain installation conditions, and is not compatible
- normally used. It may not be available in certain installation conditions, and is not compatible with certain in functions of outdoor units. Please contact Samsung's technical professionals regarding its availability and for more detailed information.

 When a slimmer pipe, instead of a normal pipe, is used for the Main Liquid Pipe on the same capacity of air conditioning system, the amount of refrigerant to be charged can be reduced by 28 % on average.





Active AI Technology

By learning usage patterns from recent operations and the surrounding conditions, the DVM S2 proactively creates, optimizes and maintains the most comfortable environment, while reducing energy consumption. The Active AI feature recognizes the conditions of the installed environments, while supplying optimized cooling¹ and heating performance, and real time refrigerant leakage monitoring based on advanced

Active AI Pressure Control automatically adjusts the compression pressure to suit the conditions of each installation site and to reduce energy usage. The DVM S2 learns patterns of cooling operation and reaches rapidly to target low pressure, therefore resulting in faster cooling and comfort¹. Benefit of high pressure AI control is that it can adjust the optimal high pressure and reduce unnecessary high pressure, thereby improving power consumption and energy².

Active AI Defrost analyzes various operating data and defrosts more precisely. As a result, it reduces wasted energy and increases the continuous heating time. The active Al component can also with the help of the algorithm learn the current fan motors, temperature and defrost timing as well.

The Active AI Refrigerant Analysis monitors the refrigerent level by analyzing various operating data from the outdoor unit, and helps maintain the optimal amount of refrigerant by alarming before the problem occurs.



AFI (Advanced Flash Injection) Compressor™

The Samsung AFI Compressor $^{\mathsf{TM}}$ combines Flash Injection Technology with a strengthened Triple Profile Wrap and Optimal Discharge Superheat Control technology. It delivers a new level of comfort by maintaining pleasantly cool or warm conditions in every corner of a building all year round.

Flash Injection Technology increases the flow of refrigerant. So, the compressor continues working reliably improving the heating performance at even lower temperatures.

Triple Profile Scroll creates a much larger chamber and can withstand higher pressure while rotating reliably at high speed. Combining it with a Dual Magnet Motor, which increases the rotary power, creates the world's largest displacement volume1.

Optimal Discharge Superheat (DSH) Control automatically adjusts the degree of discharge superheat to heat more efficiently and effectively.

^{20 %} faster cooling based on internal testing of the cooling operation, with the temperature set at 22 % cad using Auto mode for 4 hours, at a room temperature of 33 % can da nexternal temperature of 35 %. The tested model was an AM080AXVGGHZU connected to AM083NN4BHD1 and AM145NN4DBH1 indoor units with 25 m of piping. The elapsed times were measured when the room temperate reached 25 %. 15 % energy consumption is reduced with an AM080AXVGGHZU outdoor unit connected to AM083NN4BHD1 and AM145NN4DBH1 indoor units with 25 m of piping, using the cooling operation in Auto mode for 4 hours with an external temperature of 30 % and a set temperature of 22 %. Results may vary depending on the actual installation and usage conditions, such as the piping length, elevation and external temperature.

circulates 14,400 cc/sec refrigerant (= 90 cc (displacement volume) x 160 rps

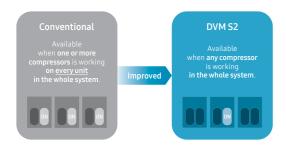


DVM S2

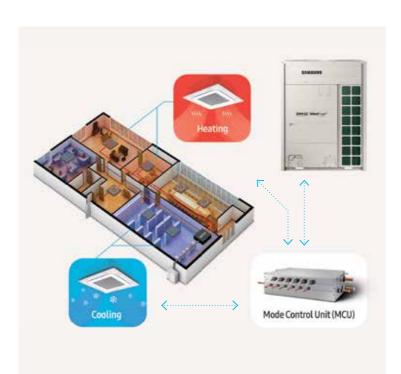
Enhanced Emergency Operation

When the air conditioning system consists of multiple Samsung DVM S2 outdoor units, its refrigerant regulating control technology ensures that you can continue working using only one compressor in an emergency.

So, if every unit except one is not working or getting serviced and any compressor on the remaining one is working properly, it will keep cooling or heating for up to 8 hours. It ensures that you can maintain a comfortable indoor environment until the whole system is functioning properly again.



		Emergency (peration
E	xample Cases of Malfunction	Conventional	DVM S2
	When there are 2 or more units in a system, and one of the two compressors on a unit is not working.	Yes	Yes
	When there are 2 or more units in a system, and one of the two compressors on each unit is not working.	Yes	Yes
	When there are 2 or more units in a system, and all of the compressors on a unit are not working.	Not Available	Yes
	When there are 2 or more units in a system, and a compressor on a low capacity unit is not working.	Not Available	Yes
	When there are 2 or more units in a system, and a compressor on a low capacity unit and one of the two compressors on another unit are not working.	Not Available	Yes
i	When there is 1 unit in a system, and one of the two compressors on it is not working.	Not Available	Yes



Mode Control Unit

An indoor unit connects to a 3-pipe Heat Recovery outdoor unit which heats and cools independently using a Mode Control Unit (MCU). MCUs are available in configurations ranging from 2 to 6 ports and can be piped together. This allows for up to 64 indoor unit connections to a single DVM S2 system (where specifi cations allow).



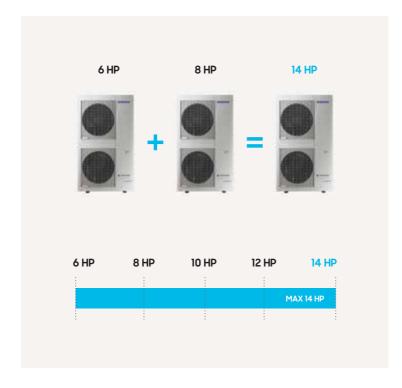


SAMSUNG DAM 2-3

DVM S Eco

High capacity in a compact design

DVM S Eco combines a high capacity up to 14HP with a small footprint. It is one of the most compact air conditioner units in its class today, making the DVM S Eco very easy and economical to install and operate without compromising on performance. It leaves plenty of extra space that can be used for other purposes.



DVM S Water

Optimal Water Flow Controller

The DVM S Water comes with a built-in Water Flow Controller that helps control the amount of water used to cool and heat an outdoor unit. The optimum flow of water is automatically determined by the temperature of the indoor space, making for minimum energy consumption at optimum standards, at reduced costs. And because this feature is standard, there is no need for a separate water flow control kit.



14:00 20:00 8:00 2 Step 3 Step

Silent mode

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 in 3 steps, creating a more pleasant

Additionally, its quiet operation during the night creates a restful environment with a reduced noise level of 3-7 dB(A)1.

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions. Silent mode is available by option setting.



Geothermal applications

Using a highly efficient compressor and heat exchanger, DVM S Water gives an effective and reliable performance, despite any changes to its environment. DVM S Water uses water as a means of heat exchange, and can be connected to various sources such as cooling towers, boilers, geothermal loops, lakes, ponds, soil, seawater and more. Its long piping and lightweight design make it easy and economical to install almost anywhere.



Heat Recovery for DVM



Compact Heat Recovery solution

26

The Heat Recovery (HR) feature for Samsung DVM S ECO and DVM S High EER is designed to control temperatures in multiple spaces at once. Optimised for small hotels and residential buildings, it can provide cooling and heating for up to 10 indoor units simultaneously.

An HR Changer is used to convert a DVM S Eco Heat Pump (4, 5 and 6 hp) to a Heat Recovery (HR) model, which can be connected to a multiport Mode Control Unit (MCU).

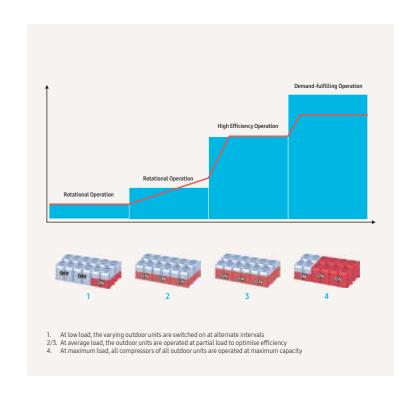
HVM Chiller

Modular Function

HVM Chiller heat pump outdoor units are available in three different sizes: 42/56/65 kW. A maximum of 16 outdoor units can be connected to achieve a maximum capacity of 1,040 kW. By connecting multiple units within a single system, the workload is adjusted automatically for maximum efficiency.

The HVM system's water-based concept eliminates the need for refrigerant inside the building, making it safer than traditional VRF systems. Its refrigerant charge is up to 65 % lower¹ than in traditional VRF systems.

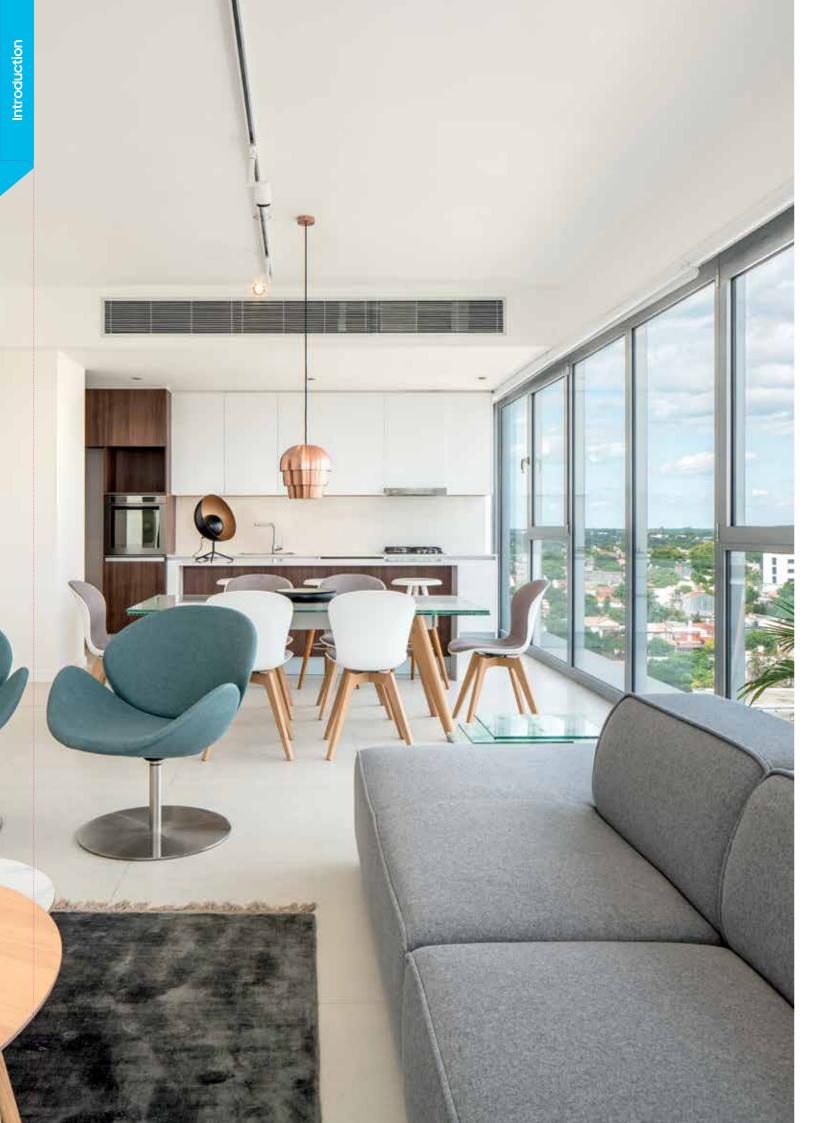
Ompared to a Samsung DVM S 60 hp, holding R410A refrigerant, connected to twelve 14 kW indoor units and 100 metres of pipes.



System Control

Local and centralised controls

The DVM Chiller utilises the same integrated control systems as a VRF system, and can be connected to a third-party Building Management System (BMS). With the use of the Fan Coil Unit (FCU) kit, third-party indoor units and control systems can also be connected. The Samsung DMS 2.5 makes control and maintenance





LSP Slim Duct

Slim design for small ceiling spaces

The Slim Duct S is 200 mm in height, making it much narrower than conventional products. This allows for easy installation and maintenance in all kinds of spaces.

¹ Based on the AM017~071*NLD*H/EU





Built-in drain pump¹

A check valve on the drain pump prevents drained water from flowing back into the drain pan, minimising the water level in the drain pan. This modern design feature means no water stagnation, and prevents drain water overflowing into your interiors.

¹ Based on models AM***KNLDEH/EU, AM***MNLD*H/EU



MSP/HSP Duct S¹







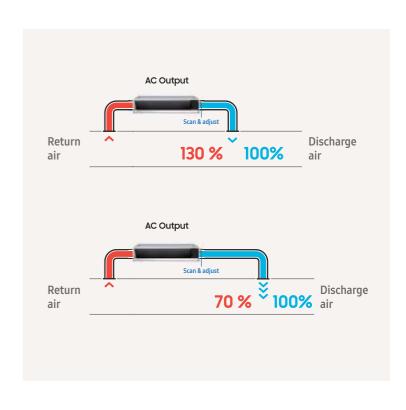
Easy installation and maintenance

Thanks to their ultra-compact design, Samsung duct units can be placed anywhere. This makes for easy installation and maintenance. The indoor unit can be accessed from three directions: from the top, bottom and one side, making maintenance simpler than ever.

Automatic External Static Pressure (ESP) setting

The automatic operation of the external static pressure feature is very simple to set up.

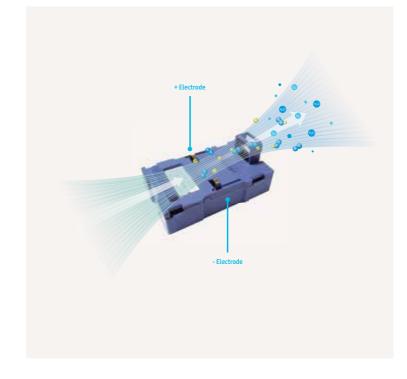
This auto setting enables you to choose the optimal operating range for the fan. The result is the greatest possible comfort with an optimal balance between sound level and capacity. Please contact your Samsung representative to find out which indoor units feature this function.





Indoor discharge temperature

Each ducted indoor unit, or Air Handling Unit (AHU) kit, boosts discharge air temperature control function that offers greater comfort without the need to change the outdoor unit setting. Cooling and heating options can be selected using a remote control, and this applies to all ducted/AHU connected systems.



Keep cleaner Indoor Air Quality with SPi kit (optional)

Users can enhance the indoor air quality with the optional Samsung Plasma ionizer kit for a cleaner work or living environment. The easy-to-install ionizer kit generates active hydrogen and oxygen ions to reduce air pollutants.

¹Based on model AM***AN*PKH/EU

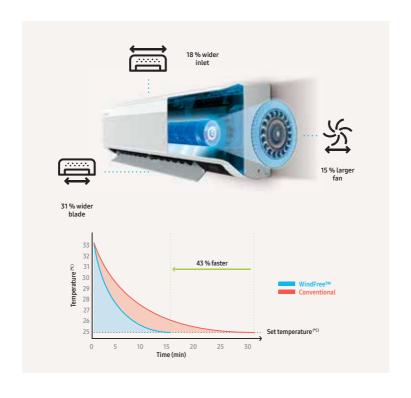


WindFree™ Deluxe

High capacity in a compact design

Samsung wall-mounted air conditioners with WindFree™ technology cool quickly from corner to corner, making people comfortable whenever they want and wherever they are. Its advanced design also features a 15 % larger fan, 18 % wider inlet and a 31 % wider blade than conventional models. This means that cool air is dispersed farther and wider into every corner of a room, reaching up to 15 metres¹.

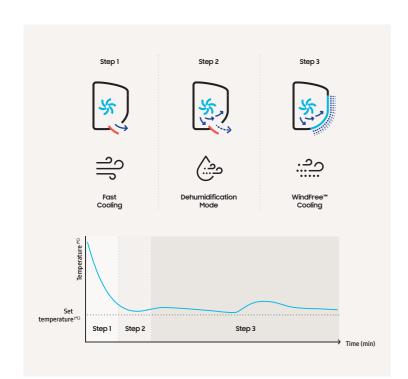
ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents at speeds below 0.15 m/s which lacks the presence of cold drafts.



Easy Installation and Servicing

The WindFree™ wall-mounted air conditioner features a snap-fit bottom cover that can be easily opened and closed. There are two screw points which allows for convenient installation and servicing. Unlike conventional brackets that can be fitted on two fixed hooks, the unit uses a roller type bracket that simplifies the installation process. This makes it easy to mount by installing the bracket on the wall and sliding it effortlessly into the exact position you want.





WindFree™ Cooling

WindFree™ Cooling mode keeps the room comfortably cool. It cools gently and quietly, dispersing air through 23,000 micro-holes so that people never have to deal with the unpleasant feeling of a cold draft on their skin. This results in a "Still Air" environment¹ with a very low air speed and limited noise². The advanced airflow structure of this mode also means that it cools a wider and larger area more evenly. And it consumes 77 % less energy than Fast Cooling mode³, so people can stay comfortably cool while reducing energy costs.

- ASHRAE (the American Society of Heating, Refrigerating, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts. Tested on the ARZIYXCAMW.BU model in an anechoic environment. WindFree™ mode generates 23 dB(A) of noise, compared to 26 dB(A) produced by the conventional Samsung model. Sound pressure level is a relative value, depending on the distance and acoustic
- environment. Sound pressure level may differ according to operating conditions. Tested on the AR12TVEAWKNAP model under specific testing conditions, based on the powe consumption of Fast Cooling mode vs. WindFree™ Cooling mode.



Smart Control

Control the temperature in any room, anytime and anywhere. Temperatures can be managed remotely using the SmartThings App¹. With just a simple touch you can turn it on and off, select the cooling mode, schedule its operation, group devices or monitor the power consumption. With the optional Wi-Fi Kit, the different aspects of the system with up to 16 connectible indoor units can be controlled via smartphone. The geofencing functionality allows the room temperature to be automatically set at the desired level when the user approaches within a preset distance from the building.

A Wi-Fi connection and Samsung SmartThings application account are required. Wi-Fi Kit to be ordered separately. Requires iOS 10.0 or later & Android 5.0 or later. Additional requirements may be needed to apply SmartThings for medium-sized to large commercial buildings. For details contact a Samsung representative.

Not all features are available for all models





WindFree™ 4-Way Cassette

WindFree[™] Technology

The WindFree™ 4-Way Cassette directs air through 15,700 micro-holes in the panel, while the WindFree™ 4-Way 600 x 600 Cassette directs air through 9,000 micro-holes in the panel. These micro-holes are essential for creating a type of airflow called "Still Air" 1 which cools the room gradually and noticeably without

ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents at speeds below 0.15 m/s which lacks the presence of cold drafts.

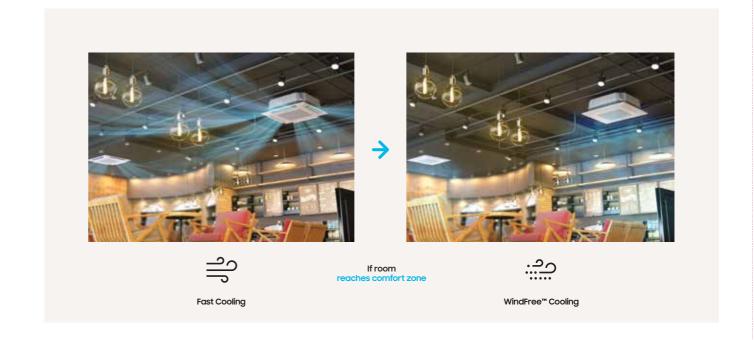


$|\longleftrightarrow|$ $|\longleftrightarrow|$ 84mm 66mm

Optimised blades

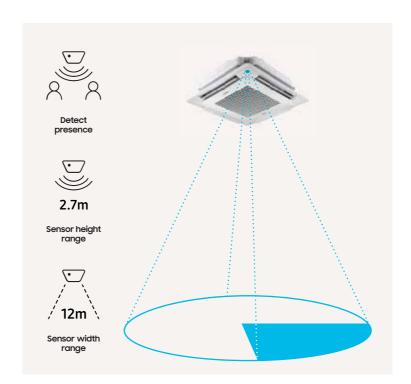
The larger optimised blades¹ (84 mm WindFree™ 4-Way Cassette, 66 mm WindFree™ 4-Way 600 x 600 Cassette) facilitate a wider cooling range and improved air circulation within the room. This advanced technology also cools the space much faster leaving no zone untouched. These blades are detachable and can be washed easily with water to remove dust or debris that has collected on them, therefore allowing for optimal quality of airflow that in turn helps maintain a clean environment.

Samsung testing compares the WindFree $^{\text{IM}}$ 4-Way and WindFree $^{\text{IM}}$ 4-Way 600 x 600 Cassette to a conventional 4-Way Cassette type air conditioner.



Smart Comfort Operation

The WindFree™ 4-Way Cassette and the WindFree™ 4-Way 600 x 600 Cassette boosts Smart Comfort Operation. The Fast Cooling process helps to achieve the desired temperature in a room quickly. By simultaneously detecting the humidity levels, the Smart Comfort Operation feature maintains the room's temperature automatically.



Motion Detect Sensor (optional)

The improved Motion Detect Sensor (MDS) detects the presence and location of people in the room, enabling automatic management of airflow direction and efficient air cooling.

Not all features are available for all models

Not all features are available for all models

WindFree™ 4-Way Cassette

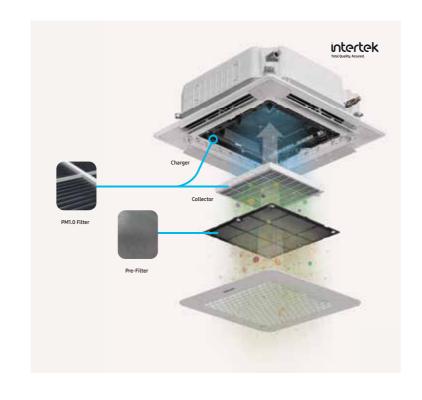
Air Purification Panel

The Air Purification Panels in the WindFree™ 4-Way Cassette contain two types of filters to enhance the mitigation of Particulate Matter (PM), aimed to keep the indoor air clean all day long. The WindFree™ 4-Way Cassette is made of a two filter purification system the Pre-Filter and the PM1.0 Filter. The Pre-Filter captures larger dust particles, stopping them from entering the air conditioning unit.

The PM1.0 Filter¹ not only effectively captures ultrafine dust upto 0.3 µm but also inactivates certain types of bacteria that are captured, using an electrostatic precipitator. It has two main parts that charge and collect certain types of dust and bacteria¹. The brush discharger generates negative ions. And these give certain dust particles and bacteria¹ a negative charge, so they become strongly attached to the ground electrode due to the electrostatic force of the collector. An added advantage is that this filter is also semi washable, thus saving the purchase and maintenance cost of replacing the filter.

intertek

Intertek Report No.: RT20E-S0010-R Date: APR. 17, 2020 (Revised) Based on the data collected the Hypothesis is accepted:The K-element (Electrostatic Precipitator) of Samsung Electronics can sterilize the certain types of bacteria that collected on the filter. (Escherichia coli : above 99 %, Staphylococcus aureus : above 99 %)



Detachable Washable Parts

The cleanliness of the exterior, as well as the filters, is very important for 4-Way Cassettes that are widely used in commercial spaces. The panels and filters of the WindFree™ 4-Way Cassette are very easy to remove and clean without screws.

One can pull the hook inside the panel grille (near the Samsung logo) to open and remove it. And the corner panels and blades can be easily separated when pulled downwards. All of the exterior parts can be cleaned with a soft brush or cloth. You can also use a vacuum or water to clean the internal filter, so you don't need to keep purchasing new filters.





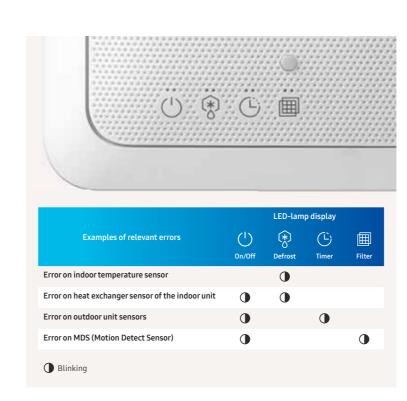


Auto Elevation Panel

The cleaning of filters is also an integral part of maintaining good indoor air quality, and elevation panels can make this process easier.

An Auto Elevation Panel is a panel that provides quick and comfortable access to dust filters for cleaning, facilitating extra convenience with the 4 metre¹ elevation advantage with a single remote click. Thus, a ladder is no longer required when cleaning panels. This makes it easier and safer for end users or service engineers to access filters for cleaning.

May vary based on the actual usage conditions.



Self-Diagnosis

The WindFree™ 4-Way Cassette's Self-Diagnosis function alerts you to malfunctions straight away. It means that you can quickly arrange a service repair visit. And an error code and LED light enable engineers to easily identify the cause of any failure, helping to reduce the time it takes to diagnose and fix the

Not all features are available for all model

Not all features are available for all models



WindFree™ 1-Way Cassette

WindFree™ Technology

The WindFree™ 1-Way Cassette uses WindFree™ Cooling and directs air through tiny holes in the panel, dispersing a gentle flow of air. These 13,000 micro-holes are essential for creating a type of airflow called "Still Air"¹, which cools the room gradually and noticeably without drafts.

ASHRAE (the American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts.

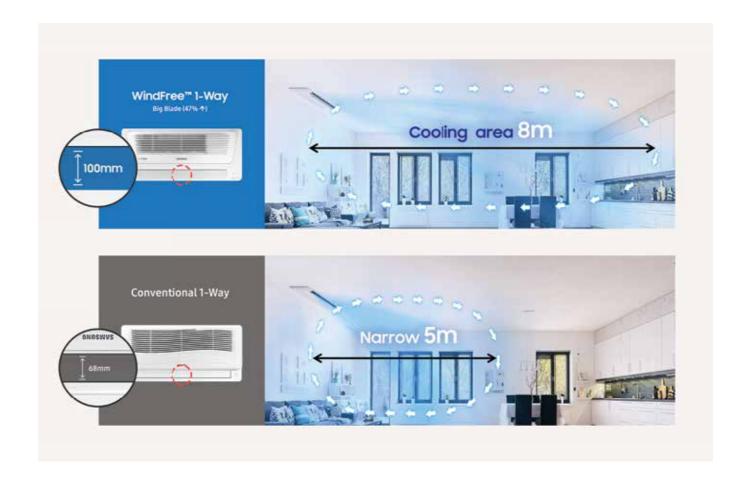


Slim installation

At a height of only 135 mm¹, the WindFree™ 1-Way Cassette is a compact and lightweight device (8–13.5 kg). This slim design makes it not only visually pleasing but also easier to install and maintain, and it can be fitted into small gaps or ceilings.

135 mm is the height of the unit until the ceiling tile. 145 mm is the height including the ceiling tile. Up to 2.5 kW and 3.6 kW (FJM and CAC) models measures 135 mm (180 mm including panel).

Wider cooling range



The larger optimised blade is 100 mm¹ and works to cool a larger area much faster. Its sleek design can deliver cool air efficiently, rapidly and evenly over an area of up to 8 m² leaving no zone untouched.

Not all features are available for all models.

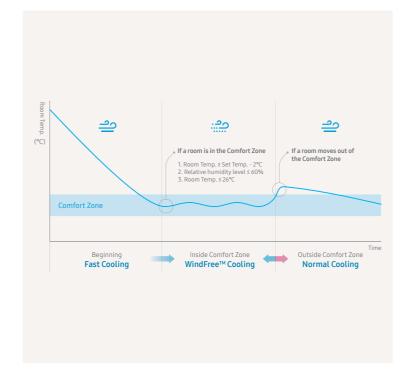
¹ Samsung testing compares the WindFree™ 1-Way Cassette to a conventional 1-Way Cassette-type air conditioner. ² Based on the 71 kW indoor unit.

WindFree™ 1-Way Cassette

Smart Comfort Operation

The WindFree™ 1-Way Cassette has a humidity sensor as well as a temperature sensor. It continually monitors both the temperature and relative humidity¹ and analyzes the room conditions. It then automatically switches between operating modes to keep everyone feeling really comfortable without the need for any manual control.

The humidity level will only be shown during WindFree™ operation and Dry Mode via the SmartThings app display.



Ducted Airconditioner

Easy Maintenance

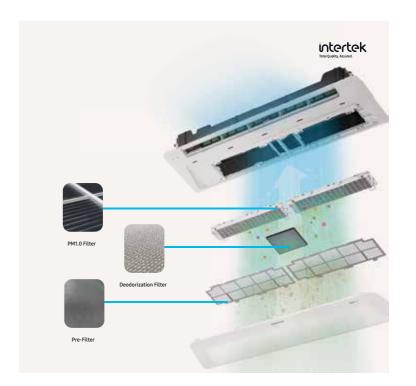
The Samsung WindFree™ 1-Way Cassette requires no duct work. You simply need to regularly clean the built-in filter with water, after removing it from your air conditioner.

Air Purification Panel

The Air Purification Panels in the WindFree™ 1-Way Cassette contain three types of filters to enhance the mitigation of Particulate Matter, aimed to keep the indoor air clean all day long. The WindFree™ 1-Way Cassette is made of a three filter purification system the Pre-Filter, Deodorization Filter¹ and the PM1.0 Filter.

The Pre-Filter captures larger dust particles, stopping them from entering the air conditioning unit. The deodorization filter captures certain unpleasant odours. The PM1.0 Filter not only effectively captures ultrafine dust upto 0.3 µm but also inactivates certain types of bacteria that are captured, using an electrostatic precipitator. It has two main parts that charge and collect certain types of dust and bacteria.² The brush discharger generates negative ions. These give the dust particles and certain types of bacteria a negative charge, so they become strongly attached to the ground electrode due to the electrostatic force of the collector. An added advantage is that this filter is also semi washable, thus saving the purchase and maintenance cost of replacing the filter.

- ¹ The Deodorization Filter can only be found in WindFree™ 1-Way Cassette.
 ² Intertek Report No.: RT20E-50010-R
 Date: APR. 17, 2020 (Revised) Based on the data collected the Hypothesis is accepted:
 The K-element (Electrostatic Precipitator) of Samsung Electronics can sterilize the certain types of bacteria that collected on the filter.(Escherichia coli : above 99 %, Staphylococcus aureus : above 99 %)



Not all features are available for all models Not all features are available for all models



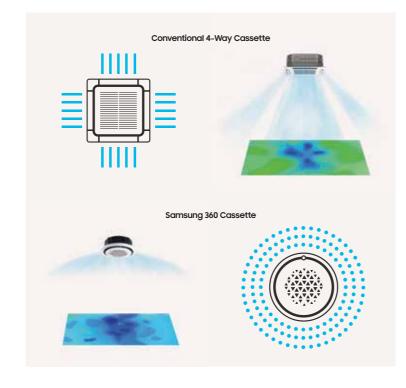


360 Cassette

Circular airflow

Unlike traditional 4-Way Cassette units¹, which create areas of uneven airflow², the 360 Cassette reaches every single corner of a room or space. Its circular outlet blows cool air in every direction. The bladeless design keeps things comfortably cool without creating a cold draft³, and without blades blocking the airflow it sends 25 % more air even further¹.

- Samsung testing compares the 360 Cassette to a conventional 4-Way Cassette type air
- The temperature difference is less than 0.6 °C within a 9.3 m radius.
- No cold draft between 0-1.5 m in height (with a 14.0 kW indoor unit) within a 5 m radius.



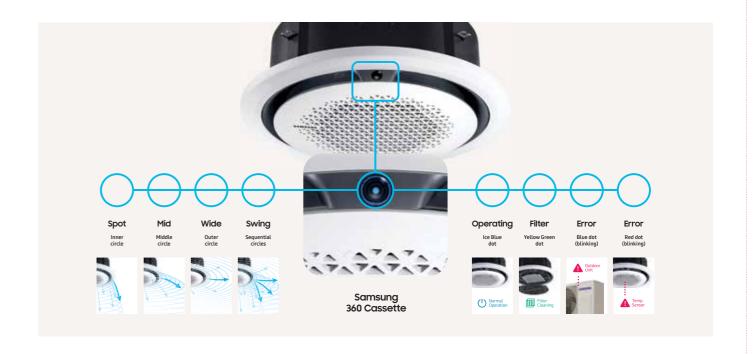


Not all features are available for all models.

Airflow Control

The air supply is easily adjusted without the use of flaps. Three booster fans work to alter the direction of airflow from within the cassette's hollow space. A rain-like distribution of the air (known as the 'coanda' effect) keeps the room cool and comfortable at all times. The innovative technology overcomes the usual limits of the conventional outlets that use blades, as they obstruct the air at low angles and cause a significant low airflow¹. The Motion Detector Sensor (MDS) is available for the 360 Cassette.

Based on internal testing compared to a general 4-Way Cassette air conditioner



Circular LED display

The unit features a stylish panel and an intuitive Circular LED display, which allows users to choose or adjust the direction of the airflow with an intuitive wireless (jog shuttle) wireless remote controller. Besides the LED Display also monitors other essential operating information, such as the filter the air flow direction, filter status and any errors. So, with just one glance, you can quickly tell where the air is going and how your 360 Cassette is performing.



Stylish design

The 360 Cassette has an innovative circular design that enables it to match a multitude of interior designs, that adds a touch of style to any room. Its minimalist and elegant styling can help to create a sophisticated and distinctive look in many different sites. With a circular panel, it can fit into a very tiny ceiling space of just 225 mm¹, so it gives you much greater flexibility as it can be installed in a wider choice of locations. The 360 Cassette is available in black or white, in a square or circular design, and can be fitted within the ceiling or exposed on any material.

¹ The minimum installation height of ceiling space may vary depending on the panel design - circular or square type, Square type panels require 30 mm more height in a ceiling space than circular type panel.

Not all features are available for all models

360 Cassette

Air Purification Panel

The Samsung 360 Cassette offers an Purifying Panel that keeps the indoor air fresh and clean. It is made of a two filter purification system the pre-filter and the PM1.0 Filter and has a superior filter mesh with 0.5 mm holes, which is 20 % denser than a vinyl chloride type filter.

The Pre-Filter captures larger dust particles, stopping them from entering the air conditioning unit. The PM1.0 Filter is not only effective at capturing ultrafine dust of up to 0.3 µm in size, but it also sterilizes up to 99 % of certain types of bacteria¹ trapped by the filter using an electrostatic precipitator¹.

¹ Verified by Intertek, Report Number RT20E-S0010-R, Issue Date:17 April 2020. The K-element (Electrostatic Precipitator) of Samsung Electronics can sterilize certain types of bacteria that collected on the filter (Escherichia coll: above 99 %, Staphylococcus aureus: above 99 %).





Not all features are available for all mode

Auto Elevation Panel

The cleaning of filters is also an integral part of maintaining good indoor air quality, and elevation panels can make this process easier.

An Auto Elevation Panel is a panel that provides quick and comfortable access to dust filters for cleaning, facilitating extra convenience with the 4.5 metre¹ elevation advantage with a single remote click. Thus, a ladder is no longer required when cleaning panels. This makes it easier and safer for end users or service engineers to access filters for cleaning.

May vary based on the actual usage conditions.



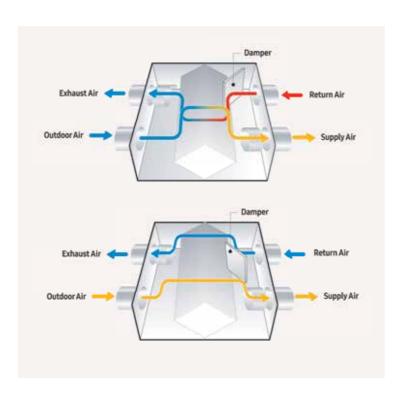




ERV (Plus)

Smart cooling - auto mode

To conserve energy and remain costeffective, the ERV and ERV Plus (for DVM) both automatically change operation modes depending on the indoor and outdoor temperatures. The ERV Plus (DVM only) is equipped with a direct expansion coil, which brings fresh outside air through the DX coil and into your space. It heats or cools, and can keep rooms at your desired temperature.



Dust & CO₂ Fresh Air Outdoor Air Outdoor Indoor

Instantly reduces CO₂ in your room.

The ERV sends fresh air into a room automatically by detecting CO₂ with the CO₂ sensor¹. Instantly reduces CO₂ in hour room. The ERV indoor unit has a CO₂ Sensor¹ that detects the level of CO₂ in the air and instantly draws in more outdoor air to maintain a comfortable environment.

¹ Optiona

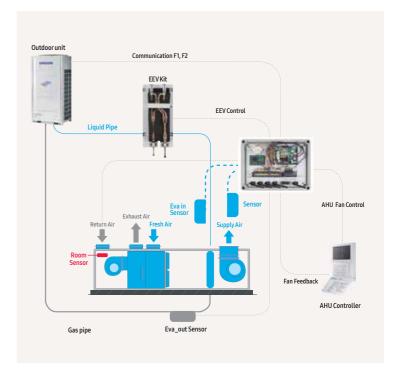
Air Handling Unit (AHU) Kit

Connect to third-party air handling units

The Samsung AHU kit allows the connection of DVM S outdoor units to third-party air handling units (AHUs)¹. With this kit you can supply heating or cooling to a DX coil in the AHU. This is a cost-efficient and effective way to provide fresh air to the building at the correct temperature. The unit improves performance and efficiency and is cost-effective.

Features include:

- IP54 waterproof certification (for MXD type AHU kit only)
- Variable capacity
- 2.5 hp-40 hp
- Simple BMS application (0–10 V, MXD-K/X Series)
- Discharge air temperature control and outdoor capacity control



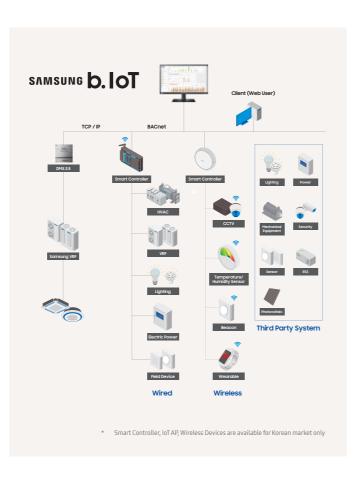
¹ Please contact your local Samsung representative for more information

b.loT

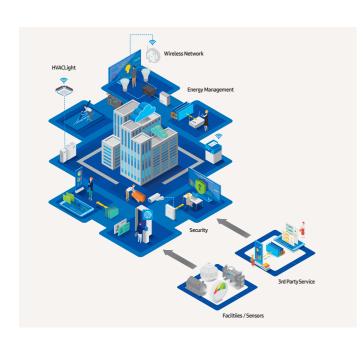
Samsung b.IoT (building Internet of Things) is a building management solution that can efficiently manage and save energy. It is an open platform with expandability and compatibility options that enable integrated control of the facility's major systems, such as VRF and thirdparty party devices via BACnet interface.

Samsung b.IoT helps to ensure:

- Efficient installation periods
- Reductions in installation and operation costs
- Optimal energy efficiency
- Efficient management of integrated systems installed in the building - VRF



Samsung b.IoT provides:



Open platform

- Supports Open Protocol (BACnet) and API for integration of various devices
- Integrates various sensors and devices wirelessly via IoT gateway

Easy and smart operation

- Optimal operation for Samsung VRF (DVM)
- Intuitive Graphic UI & convenient rules editor for various solutions
- Trends & alarm lookup

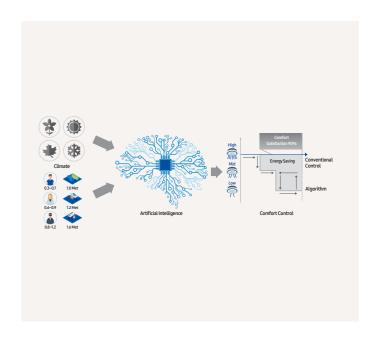


Effective energy usage management

- Energy usage analysis
- Hybrid (HVAC+VRF) energy consumption distribution

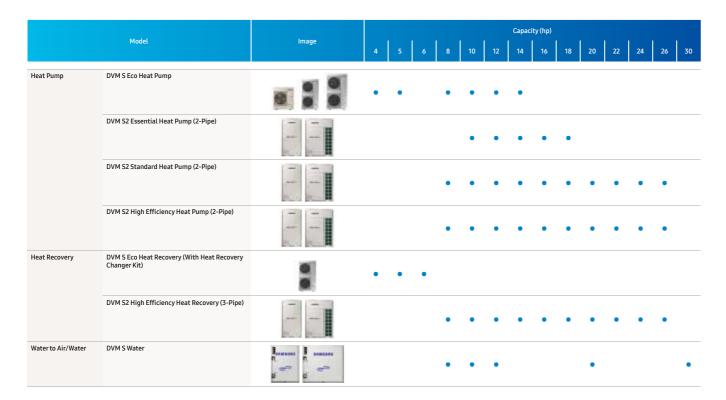
Intelligent energy saving algorithms

- Data-Based Comfort Control -Comfort based on user-specific algorithms
- Learning-Based Control Optimised control by artificial intelligence (AI)
- Occupancy-Based Control Lighting, humidity & temperature
- Inefficient Operation Detection Time, space & temperature



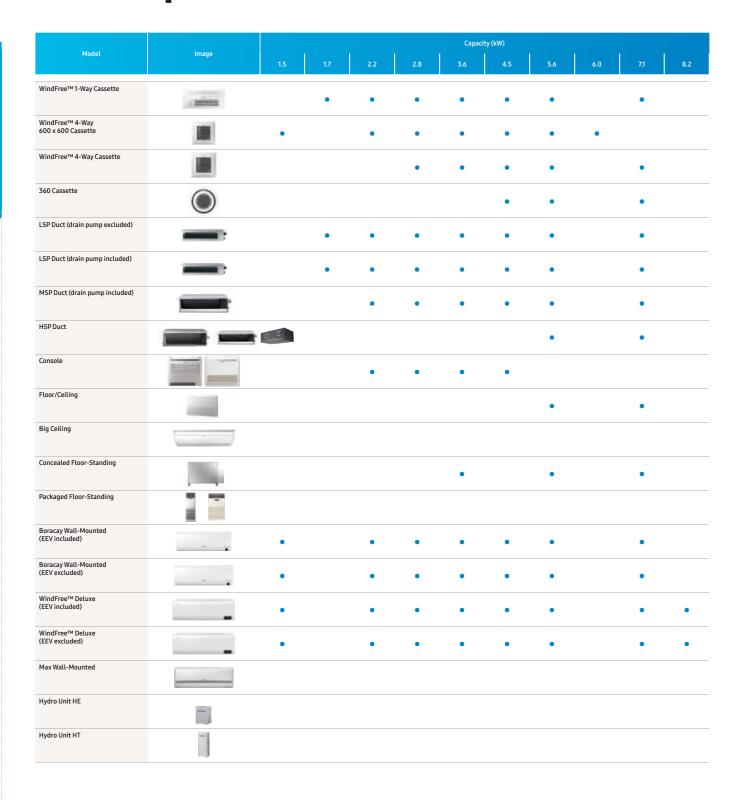


Line-up outdoor





Line-up indoor



					Capacity (kW)				
9.0	11.2	12.8	14.0	16.0	18.0	22.0	25.0	28.0	32.0	50.0
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- NOTE

 Make sure to use an indoor unit that is compatible with DVM S2.

 Indoor units can be connected within the range indicated in the following table.

 If the total capacity of the connected indoor units exceeds the indicated maximum capacity, the cooling and heating capacity of the indoor unit may decrease.

 The total allowable capacity of the connected indoor units can be from 50 % to 130 % of the total outdoor unit capacity. 0.5 × Σ (Outdoor unit capacity)

 ≤ Total capacity of the connected indoor units ≤1.3 × Σ (Outdoor unit capacity).

 EEV kit is necessary for all Indoor Units which do not have EEV kit included, please order EEV Kit separately.



Selection guide

Model		DVM	S Eco	DVM S2 Essential	DVM S2 Standard	DVM S2 High Efficiency
		AM***KXMDEH/EU AM***MXMDEH/EU	AM***FXMDGH/EU AM***KXMDGH/EU	AM***AXVDGH/EU	AM***AXVAGH/EU	AM***AXVGGH/EU
		AM***MXMDEH/EU	AM***KXMDGH/EU			
Туре	Heat Pump	•	•	•	•	•
	Heat Recovery					
	Capacity range	4–8 hp	6-14 hp	10-40 hp	8-98 hp	8-98 hp
Connectablility	WindFree™ Cassette	•	•	•	•	•
	360 Cassette	•	•	•	•	•
	LSP Duct	•	•	•	•	•
	MSP Duct	•	•	•	•	•
	HSP Duct	•	•	•	•	•
	Wall-Mounted	•	•	•	•	•
	Floor-Standing/Concealed/Ceiling	•	•	•	•	•
	ERV Plus	•	•	•	•	•
	Hydro unit HE/HT	•	•	•	•	•
	MCU Kit					
	AHU Kit	•	•	•	•	•
Features	Refrigerant check mode	•	•	•	•	•
	Simultaneous cooling and heating					
	7-Segment display	•	•	•	•	•
	Four-way direction piping connection	•	•			
	Advanced Flash Injection™			•	•	•
	Cooling @ 50°C			•	•	•
	Heating @ -25 °C		•		•	•
	Max. External Static Pressure 110Pa ²			•	•	•
	Improved fan diffuser			•	•	•
	Reduced air flow noise			•	•	•
	Leak detection (pump down function)			•	•	•
	Night silent mode	•	•	•	•	•
	Variable Refrigerant Temperature	•	•	•	•	•
	Inverter scroll compressor		•	•	•	•
	Twin BLDC rotary compressor	•				
	DC fan motor	•	•	•	•	•
	Multi-serration Fan ²			•	•	•
	Active Al Pressure Control			•	•	•
	Active Al Defrost			•	•	•
	Active AI Refrigerant Analysis			•	•	•
	On-device Inverter Checker™			•	•	•
	Durafin™ Ultra Heat Exchanger Fin			•	•	•
	Slimmer Liquid Line ³			•	•	•
	Refrigerant type	R410A	R410A	R410A	R410A	R410A
Smart Protection	Adaptive Sine Wave	•	•	•	•	•
Technology	Refrigerant cooled PCB			•	•	•
	Resonance Avoidance Technology	•	•	•	•	•

	Heat Recovery	
0		
DVM S Eco AM***NXMDER/EU AM***NXMDGR/EU	DVM S2 High Efficiency AM***AXVGGR/EU	DVM S Water AM***MXWANR/EU AM***KXWANR/EU
•1		•1
•	•	•
4-6 hp	8-98 hp	8-90 hp
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R410A	R410A	R410A
N410A	R410A	
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¹ Can be connected as a 2-pipe system

² Model speci

2

Selection guide

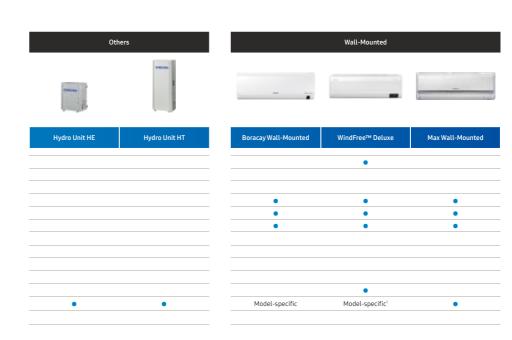


Model		WindFree™ 1-Way Cassette	WindFree™ 4-Way Cassette	360 Cassette
Airflow	WindFree™ Cooling	•	•	
	360 Degree Air Supply			•
Air Purification	SPi Kit		Optional	Optional
	Air Filter	•	•	•
Functions	Compatible with Samsung SmartThings	•	•	•
	Compatible with Wi-Fi Kit	•	•	•
	Humidity Sensor	•	•	•
	MDS (Motion Detect Sensor)		Optional	Optional
	Automatic ESP Setting			
	Quiet Mode	•	•	
Controls	Wireless remote controller included			
Others	EEV included	•	•	•
	Built-In Drain Pump	•	•	•



Model		Console	Floor/Ceiling	Big Ceiling	Concealed Floor-Standing	Packaged Floor-Standing
Airflow	WindFree™ Cooling					
	360 Degree Air Supply					
Air Purification	SPi Kit	•		Optional		
	Air Filter	•	•	•	•	•
Functions	Compatible with Samsung SmartThings	•	•	•	•	•
	Compatible with Wi-Fi Kit	•	•	•	•	•
	Humidity Sensor					
	MDS (Motion Detect Sensor)					
	Automatic ESP Setting					
	Quiet Mode				•	
Controls	Wireless remote controller included	•				
Others	EEV included	•		•	•	•
	Built-In Drain Pump					





¹EEV kit is necessary for all Indoor Units which do not have EEV kit included, please order EEV Kit separately.



Nomenclature

Indoor units



		AM	VRF (DVM)
1	Classification	AN	Ventilation (ERV)
2	Capacity		x1/10 kW (3 digits)
		F	2013
		Н	2014
		J	2015
	Version	K	2016
3		М	2017
		N	2018
		R	2019
		Т	2020
		Α	2021
		N	Indoor Unit (NASA)
4	Product Type	S	ERV
		"1"	WindFree™ 1-Way Cassette
		"2"	2-Way Cassette
		"4"	360 Cassette & WindFree™ 4-Way Cassette
		N	WindFree™ 4-Way Cassette 600 x 600
		L	Low Static Pressure Duct (Slim Duct)
		М	Medium Static Pressure Duct
		Н	High Static Pressure Duct
		E	Outdoor Air Processing Duct
		С	Ceiling
5	Product Notation	J	Console
		F	Floor-Standing
		Р	Packaged Floor-Standing
		Т	Boracay Wall-Mounted without EEV
		Q	Boracay Wall-Mounted (EEV)
		٧	AR5000 Wall-Mounted (EEV)
		В	Hydro Unit
		К	ERV (Plus)
		w	DVM S Water
		F	Flagship
6	Feature	P	Premium
	· cuture	D	Deluxe
		S	Standard
		E	1Ф, 220~240 V, 50 Hz
7	Voltage Rating	K	1Ф, 220~240 V, 50/60 Hz
		G	3Ф, 220~240 V, 50 Hz
		Н	Heat Pump (R410A)
8	Mode	В	Heat Pump (R134A)
		N	ERV

Outdoor units



1	Classification	AM	VRF (DVM)
2	Capacity		x1/10 hp (3 digits)
		F	2013
		Н	2014
		J	2015
		K	2016
3	Version	М	2017
		N	2018
		R	2019
		T	2020
		Α	2021
4	Product Type	Х	Outdoor Unit
		٧	DVM S2 Essential/Standard/High Efficiency
5	Product Notation	W	DVM S Water
		М	DVM S Eco
		Α	Standard + General Temperature + Module
6	Feature	Н	High EER + Low Temperature + Module
°	reature	G	High EER + General Temperature + Module
		D	Standard + General Temperature + Non-Module
		E	1Ф, 220~240 V, 50 Hz
7	Voltage Rating	G	3Ф, 380~415 V, 50 Hz
		N	3Ф, 380~415 V, 50/60 Hz
8	Mode	Н	Heat Pump
•	Mode	R	Heat Recovery

Specifications

DVM S Eco Heat Pump

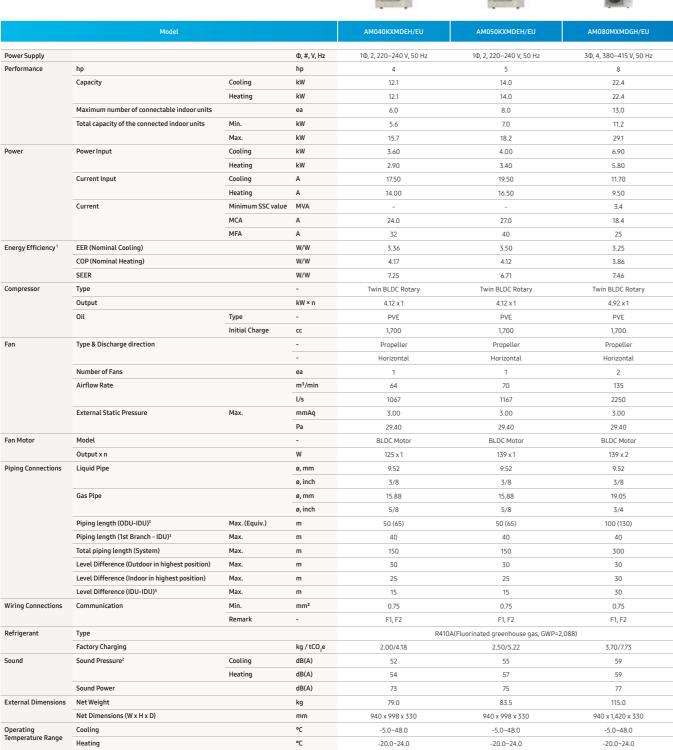
- Horizontal discharge and rear suction by means of one (4~5 hp)
- or two (8~14 hp) propeller BLDC Inverter fan(s).

 Each module houses one compressor: Twin BLDC Rotatory (4~8 hp) or Inverter Scroll with Flash Injection technology (10~14 hp).
- Compressor micro frequency control with 0.01 Hz step.
- Night Silent Mode available.
 Eurovent certified and ErP (Ecodesign) compliant.
- Four-way direction piping connection.

















AM080FXMDGH/EU	AM100KXMDGH/EU	AM120KXMDGH/EU	AM140KXMDGH/EU
3Ф, 4, 380-415 V, 50 Hz			
8	10	12	14
22.4	28.0	33.5	40.0
25.0	31.5	37.5	45.0
13.0	18.0	21.0	26.0
11.2	14.0	16.8	20.0
29.1	36.4	43.6	52.0
5.72	7.29	8.77	10.59
4.88	6.74	7.81	9.88
9.66	11.51	13.74	16.48
8.24	10.58	12.23	15.55
3.4	4.6	5.1	5.9
18.0	21.5	23.5	32.0
25	30	30	40
3.92	3.84	3.82	3.78
5.12	4.67	4.79	4.55
9.22	7.09	6.94	6.83
Inverter Scroll	Inverter Scroll	Inverter Scroll	Inverter Scroll
4.96 x 1	5.18 x 1	6.39 x 1	6.76 x 1
PVE	PVE	PVE	PVE
2,800	2,300	2,300	2,300
Propeller	Propeller	Propeller	Propeller
Horizontal	Horizontal	Horizontal	Horizontal
2	2	2	2
135	165	166	180
2250	2750	2766.67	3000
3.00	3.00	3.00	3.00
29.40	29.40	29.40	29.40
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
139 x 2	244 x 2	244 x 2	244 x 2
9.52	9.52	12.7	12.7
3/8	3/8	1/2	1/2
19.05	22.22	28.58	28.58
3/4	7/8	11/8	11/8
100 (130)	160 (185)	160 (185)	160 (185)
40	40	40	40
300	300	300	300
30	50	50	50
30	40	40	40
30	50	50	50
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
		nhouse gas, GWP=2,088)	. ,,.=
3.70/7.73	3.70/7.73	4.30/8.98	4.80/10.02
56	58	59	62
58	60	61	64
74	74	76	79
135.0	145.0	155.0	162.0
940 x 1,420 x 330	940 x 1,630 x 460	940 x 1,630 x 460	940 x 1,630 x 460
-5.0~48.0	-5.0~52.0	-5.0~52.0	-5.0~52.0
-20.0~24.0	-25.0~24.0	-25.0~24.0	-25.0~24.0

¹Performances are based on the following test

- conditions:

 Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB

 Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB

 Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

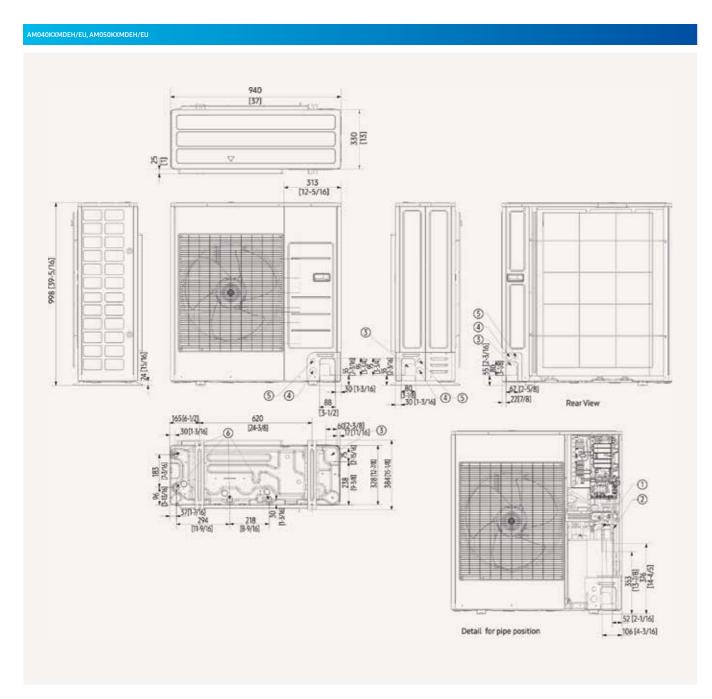
²Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value

³ODU: Outdoor Unit, IDU: Indoor Unit

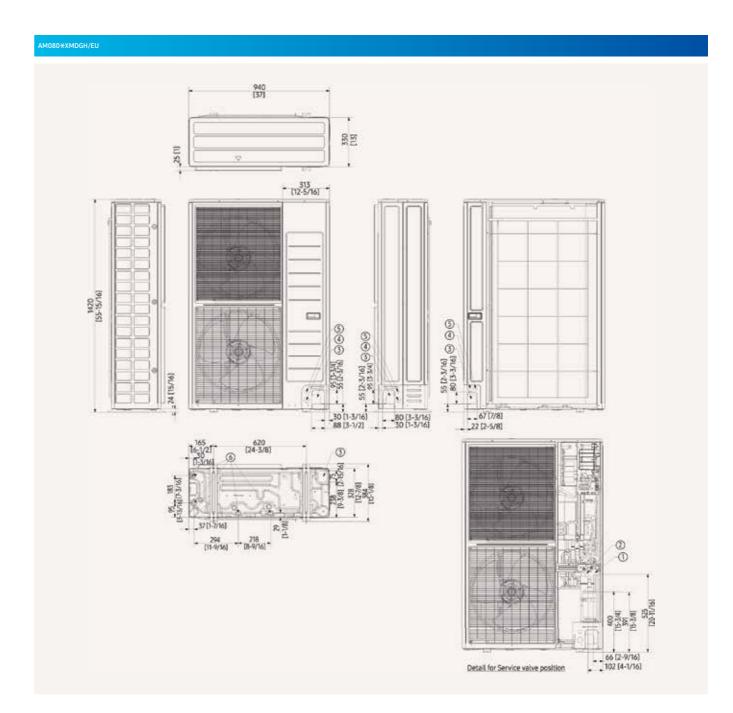
that a sound source generates.

Dimensional drawings

DVM S Eco Heat Pump



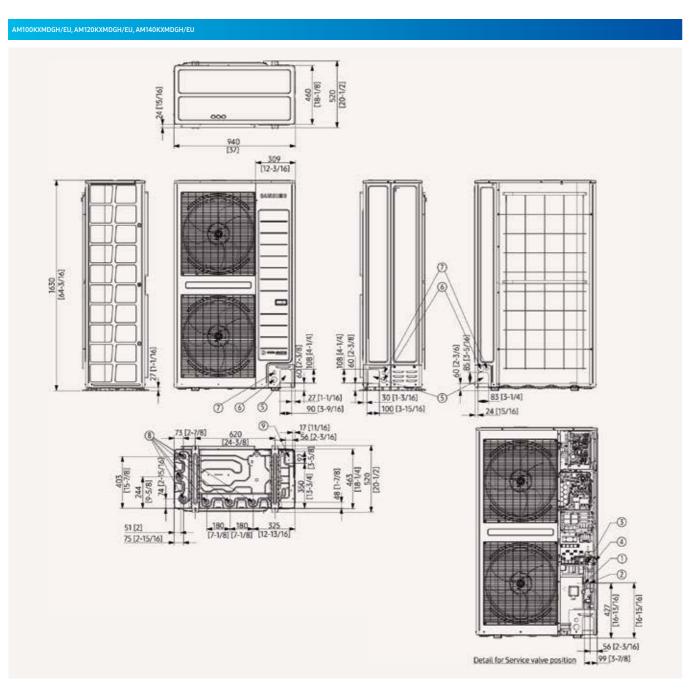
NO	Name	Description
		4/5 hp
1	Refrigerant liquid pipe	ø9.52 (ø3/8)
2	Refrigerant gas pipe	ø15.88 (ø5/8)
3	Knock-out hole for pipe intake	Front/Side/Rear/Bottom
4	Power wiring conduits	Front/Side/Rear, ø34.00 (ø1 3/8)
5	Communication wiring conduits	Front/Side/Rear, ø22.00 (ø7/8)
6	Drain holes	Connect with the provided drain plug.



NO	Name	Description
		8 hp
1	Refrigerant gas pipe	ø19.05 (ø3/4)
2	Refrigerant liquid pipe	ø9.52 (ø3/8)
3	Knock-out hole for pipe intake	Front/Side/Rear/Bottom
4	Power wiring conduits	Front/Side/Rear, ø34.00 (ø13/8)
5	Communication wiring conduits	Front/Side/Rear, ø22.00 (ø7/8)
6	Drain holes	Connect with the provided drain plug.

Dimensional drawings

DVM S Eco Heat Pump



NO	Name	Description	
		10 hp	12/14 hp
1	Refrigerant liquid pipe	ø9.52 (ø3/8)	ø12.70 (ø1/2)
2	Refrigerant gas pipe	ø22.28 (ø5/8)	ø28.58 (ø3/4)
3	Service valve (gas)		
4	Service valve (liquid)		
5	Knock-out hole for pipe intake	Front/Side/Rear	
6	Power wiring conduits	Front/Side/Rear, ø44 (ø1 3/4)	
7	Communication wiring conduits	Front/Side/Rear, ø28 (ø11/8)	
8	Drain holes	Connect with the provided drain plug.	
9	Knock-out hole for pipe intake	Bottom	



DVM S2 Essential Heat Pump (2-Pipe)

- Erp (Ecodesign) compliant and Eurovent certified
- Advanced Flash Injection™ technology
 Active AI Pressure Control
- Active Al Defrost

- Active AI Refrigerant analysis
- Durafin™ Ultra Heat Exchanger Fin
 Optional Slimmer Liquid Pipe







	Model			AM100AXVDGH/EU	AM120AXVDGH/EU	AM140AXVDGH/EU
ower Supply			Φ, #, V, Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 H
erformance	hp		hp	10	12	14
	Capacity	Cooling (Rated)	kW	28.0	33.6	40.0
		Heating (Rated)	kW	28.0	33.6	40.0
		Heating (Max)	kW	31.5	37.8	45.0
	Maximum number of connectable indoor units		ea	18	21	26
	Total capacity of the connected indoor units	Min.	kW	14.0	16.8	20.0
		Max.	kW	36.4	43.7	52.0
ower	Current Input	Cooling (Rated)	A	20.50	22.01	28.60
		Heating (Rated)	A	14.34	16.45	20.91
	Current	Minimum SSC value	MVA	3.7	4.0	4.6
		MCA	Α	23.0	25.0	29.0
		MFA	A	32	32	32
nergy efficiency	SEER		W/W	6.00	6.40	6.20
	SCOP		W/W	4.10	4.30	4.10
	ηs.c		%	237	253	245
	ηs.h		%	161	169	161
ompressor	Туре		-	Inverter Scroll x1	Inverter Scroll x 1	Inverter Scroll x 1
	Output		kW x n	6.67 x 1	6.67 x 1	6.67 x 1
	Oil	Туре	-	PVE	PVE	PVE
		Initial Charge	cc x n	1,100 x 1	1,100 x 1	1,100 x 1
n	Tyne	miliar charge	-	Propeller	Propeller	Propeller
	Type Discharge direction		_	Vertical	Vertical	Vertical
	Number of Fans		ea	1	1	1
	Airflow Rate		m³/min	167	196	210
	All flow Rate		l/s	2,779	3,260	3,500
	External Static Pressure	Mari		11	3,200	3,500
	External Static Pressure	Max.	mmAq	110	110	80
- Matau	Time		Pa			
n Motor	Туре			BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	630 x 1	630 x 1	630 x 1
ping Connections	Liquid Pipe		ø, mm	9.52	12.70	12.70
			ø, inch	3/8	1/2	1/2
	Gas Pipe		ø, mm	22.22	28.58	28.58
			ø, inch	7/8	11/8	11/8
	Piping length (ODU-IDU)*	Max. (Equiv.)	m	200 [220]	200 [220]	200 [220]
	Piping length (1st Branch - IDU) ³	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position)'	Max.	m	110	110	110
	Level difference (IDU in highest position)'	Max.	m	110	110	110
	Level Difference (IDU-IDU)3	Max.	m	50	50	50
iring Connections	Transmission Cable	Min.	mm²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
efrigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2,	088)
	Factory Charging		kg	5.5	7.0	7.0
			tCO₂e	11.48	14.62	14.62
und	Sound Pressure ²	Cooling	dB(A)	56	61	63
		Heating	dB(A)	60	63	65
	Sound Power	Cooling	dB(A)	78	81	85
cternal Dimensions	Net Weight		kg	185	205	207
	Net Dimensions (W x H x D)		mm	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765
perating	Cooling		°C	-5~50	-5~50	-5~50
emperature Range						





AM160AXVDGH/EU	AM180AXVDGH/EU
30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz
16	18
45.0	50.4
45.0	50.4
50.4	56.7
29	32
22.5	25.2
58.5	65.5
31.04	37.61
22.38	24.75
5.2	6.3
32.0	39.2
40	50
6.30	5.90
4.20	4.10
249	233
165	161
Inverter Scroll x1	Inverter Scroll x 1
8.93 x 1	8.93 x 1
8.93 X I	PVE
1,400 x 1 Propeller	1,400 x 1 Propeller
Vertical 2	Vertical 2
303	324
5,052	5,401
11	11
110	110
BLDC Motor	BLDC Motor
620 x 2	620 x 2
12.70	15.88
1/2	5/8
28.58	28.58
11/8	11/8
200 [220]	200 [220]
90	90
1,000	1,000
110	110
110	110
50	50
0.75	0.75
F1, F2	F1, F2
R410A(Fluorinated gree	enhouse gas, GWP=2,088)
8.0	8.0
16.70	16.70
60	61
62	64
81	83
242	242
1,295 x 1,695 x 765	1,295 x 1,695 x 765
-5~50	-5~50
-25~24	-25~24

¹Performances are based on the following test

- Performances are based on the following test conditions:

 Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB

 Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB

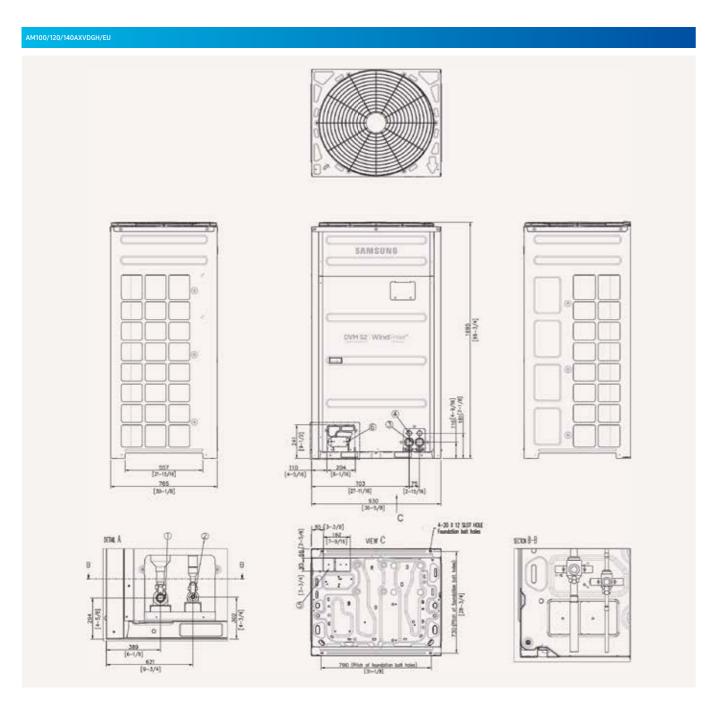
 Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

²Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

³ODU: Outdoor Unit, IDU: Indoor Unit



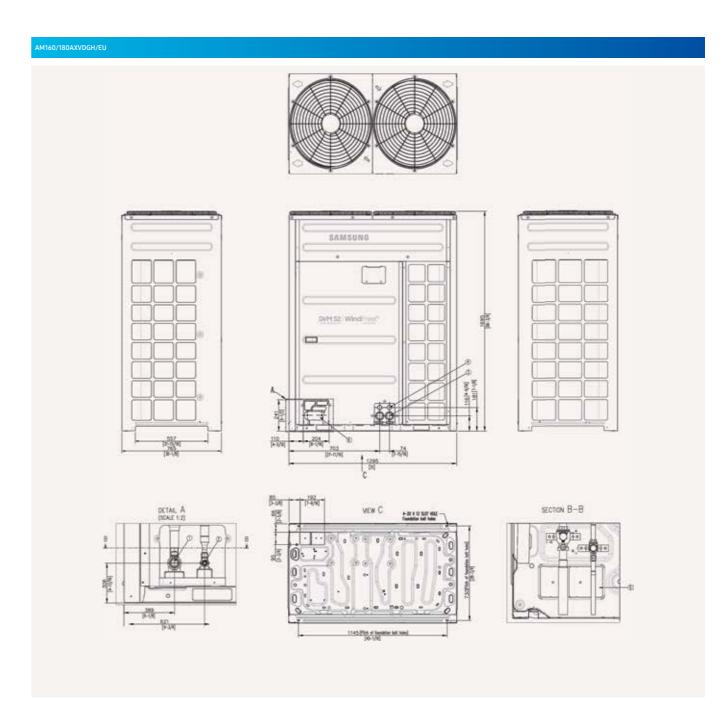
DVM S2 Essential Heat Pump (2-Pipe)



NO	Name	Description
1	Gas Ref.pipe	See NOTE 4.
2	Liquid Ref.pipe	See NOTE 4.
3	Power wiring conduit	Ø44
4	Communication wiring conduit	Ø34
5	Knock-out Hole for Ref.Piping (bottom)	
6	Knock-out Hole for Ref.Piping (front)	

- Note:
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
 2. Item 3-6: Knock-out hole
 3. View C indicate the dimension of knock-out hole (bottom)
 4. Pipe [Ø, mm(inch)]: Brazing connection

HP	Liquid pipe	Gas pipe
8	9.52(3/8)	19.05(3/4)
10	9.52(3/8)	22.22(7/8)
12	12.70(1/2)	28.58(1-1/8)
14	12.70(1/2)	28.58(1-1/8)
16	12.70(1/2)	28.58(1-1/8)
18	15.88(5/8)	28.58(1-1/8)
20	15.88(5/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)
26	19.05(3/4)	34.92(1-3/8)



NO	Name	Description	
1	Gas Ref.pipe	See NOTE 4.	
2	Liquid Ref.pipe	See NOTE 4.	
3	Power wiring conduit	Ø44	
4	Communication wiring conduit Ø34		
5	Knock-out Hole for Ref.Piping (bottom)		
6	Knock-out Hole for Ref.Piping (front)		

- Note:
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
 2. Item 3-6: Knock-out hole
 3. View C indicate the dimension of knock-out hole (bottom)
 4. Pipe [Ø, mm(inch)]: Brazing connection

НР	Liquid pipe	Gas pipe
8	9.52(3/8)	19.05(3/4)
10	9.52(3/8)	22.22(7/8)
12	12.70(1/2)	28.58(1-1/8)
14	12.70(1/2)	28.58(1-1/8)
16	12.70(1/2)	28.58(1-1/8)
18	15.88(5/8)	28.58(1-1/8)
20	15.88(5/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)
26	19.05(3/4)	34.92(1-3/8)

DVM S2 Standard Heat Pump (2-Pipe)

- Erp (Ecodesign) compliant and Eurovent certified
- Advanced Flash Injection™ technology
 Active AI Pressure Control
- Active Al Defrost

- Active AI Refrigerant analysis
- Durafin™ Ultra Heat Exchanger Fin
 Optional Slimmer Liquid Pipe
- On-device Inverter Checker™







	<u> </u>					
	Model			AM080AXVAGH/EU	AM100AXVAGH/EU	AM120AXVAGH/EU
Power Supply			Ф, #, V, Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz
Performance	hp		hp	8	10	12
	Capacity	Cooling	kW	22.4	28.0	33.6
		Heating	kW	22.4	28.0	33.6
	Maximum number of connectable indoor units		ea	14	18	21
	Total capacity of the connected indoor units	Min.	kW	11.2	14.0	16.8
		Max.	kW	29.1	36.4	43.7
Power	Current Input	Cooling	Α	12.60	18.41	19.83
		Heating	Α	9.50	12.90	14.82
	Current	MCA	Α	18.0	23.0	25.0
		MFA	A	25	32	32
Energy Efficiency ¹	SEER		W/W	6.5	6.2	6.6
	SCOP		W/W	4.2	4.2	4.4
	ηs.c		%	257	245	261
	ηs.h		%	165	165	173
Compressor	Output		kW x n	4.60 x 1	6.67 x 1	6.67 x 1
	Oil	Туре	-	PVE	PVE	PVE
		Initial Charge	hp kW kW ea kW kW A A W/W W/W %	900 x1	1,100 x 1	1,100 x 1
Fan	Туре			Propeller	Propeller	Propeller
	Discharge direction		-	Vertical	Vertical	Vertical
	Number of Fans		ea	1	1	1
	Airflow Rate			151	167	196
				2,515.00	2,779.00	3,260.00
	External Static Pressure	Max.	mmAq	11	11	11
				110	110	110
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	630 x1	630 x 1	630 x 1
Piping Connections	Liquid Pipe		ø, mm	9.52	9.52	12.70
				3/8	3/8	1/2
	Gas Pipe			19.05	22.22	28.58
	,			3/4	7/8	11/8
	Piping length (ODU-IDU) ³	Max. (Equiv.)		200 [220]	200 [220]	200 [220]
	Piping length (1st Branch - IDU) ³	Max.		90	90	90
	Total piping length (System)	Max.		1,000	1,000	1,000
	Level difference (ODU in highest position) ³	Max.		110	110	110
	Level difference (IDU in highest position) ³	Max.		110	110	110
	Level Difference (IDU-IDU) ³	Max.		50	50	50
Wiring Connections	Transmission Cable			0.75	0.75	0.75
J	Remark			F1, F2	F1, F2	F1, F2
Refrigerant	Туре		-		410A(Fluorinated greenhouse gas, GWP=2,088)	,
	Factory Charging		kg	5.5	5.5	7.0
				11.48	11.48	14.62
Sound	Sound Pressure ²	Cooling		53	56	61
		Heating		58	60	63
	Sound Power	Cooling		75	78	81
External Dimensions	Net Weight			175	185	205
	Net Dimensions (W x H x D)			930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765
Operating	Cooling			-5~50	-5-50	-5~50
Temperature Range	Heating			-25~24	-25~24	-25~24
	ricading			-23 -24	-2J ·24	-2J -24



- Performances are based on the following test conditions:
 Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB
 Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB
 Equivalent refrigerant piping: 7.5 m, Level differences: 0 m
- ² Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a
- ³ ODU: Outdoor Unit, IDU: Indoor Unit









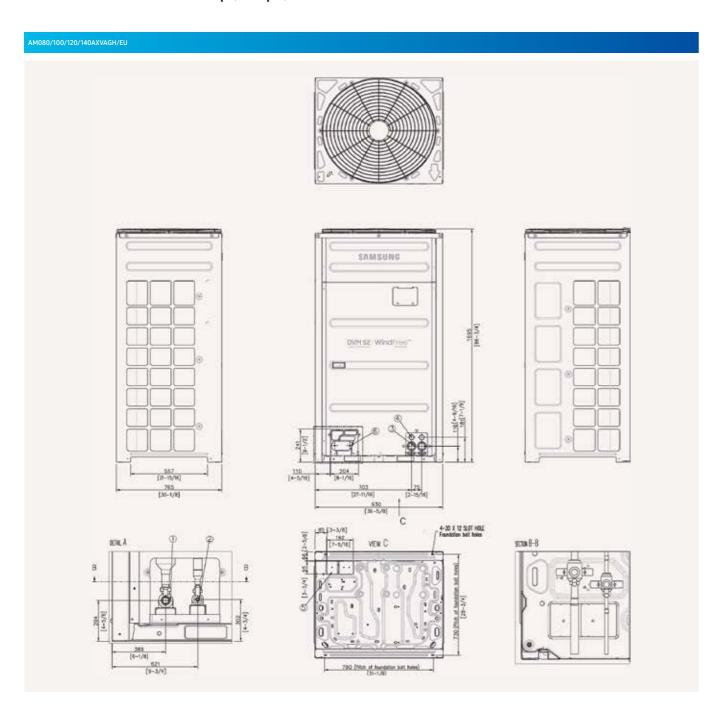






AM140AXVAGH/EU	AM160AXVAGH/EU	AM180AXVAGH/EU	AM200AXVAGH/EU	AM220AXVAGH/EU	AM240AXVAGH/EU	AM260AXVAGH/EU
5Ф, 4, 380–415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380–415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 H
14	16	18	20	22	24	26
40.0	45.0	50.4	56.0	61.6	67.2	72.8
40.0	45.0	50.4	56.0	61.6	67.2	68.0
26	29	32	36	40	43	47
20.0	22.5	25.2	28.0	30.8	33.6	36.4
52.0	58.5	65.5	72.8	80.1	87.4	94.6
27.72	29.47	33.87	39.87	45.43	50.05	58.83
18.81	20.13	22.29	26.49	28.11	45.58	46.54
29.0	32.0	39.2	43.0	46.0	55.0	60.0
32	40	50	63	63	63	75
6.4	6.5	6.1	6.2	5.9	5.6	5.1
4.2	4.3	4.2	4.1	4.1	3.7	3.7
253	257	241	245	233	221	201
165	169	165	161	161	145	145
6.67 x 1	8.93 x 1	8.93 x 1	8.93 x 1	6.67 x 2	6.67 x 2	6.67 x 2
PVE	PVE	PVE	PVE	PVE	PVE	PVE
1,100 x 1	1,400 x1	1,400 x 1	1,400 x 1	1,100 x 2	1,100 x 2	1,100 x 2
Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
1	2	2	2	2	2	2
210	303	324	313	342	365	365
3,500.00	5,052.00	5,401.00	5,209.00	5,698.00	6,089.00	6,089.00
8	11	11	11	11	8	8
80	110	110	110	110	80	80
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
630 x 1	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2
12.70	12.70	15.88	15.88	15.88	15.88	19.05
1/2	1/2	5/8	5/8	5/8	5/8	3/4
28.58	28.58	28.58	28.58	28.58	34.92	34.92
11/8	11/8	11/8	11/8	11/8	13/8	13/8
200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	200 [220]
90	90	90	90	90	90	90
1,000	1,000	1,000	1,000	1,000	1,000	1,000
110	110	110	110	110	110	110
110	110	110	110	110	110	110
50	50	50	50	50	50	50
0.75	0.75	0.75	0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2
		R410A(I	Fluorinated greenhouse gas, GW	P=2,088)		
7.0	8.0	8.0	10.5	10.5	14.0	14.0
14.62	16.70	16.70	21.92	21.92	29.23	29.23
63	60	61	61	64	65	65
65	62	64	63	65	67	67
85	81	83	84	86	87	87
207	242	242	268	301	325	325
930 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50
-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24

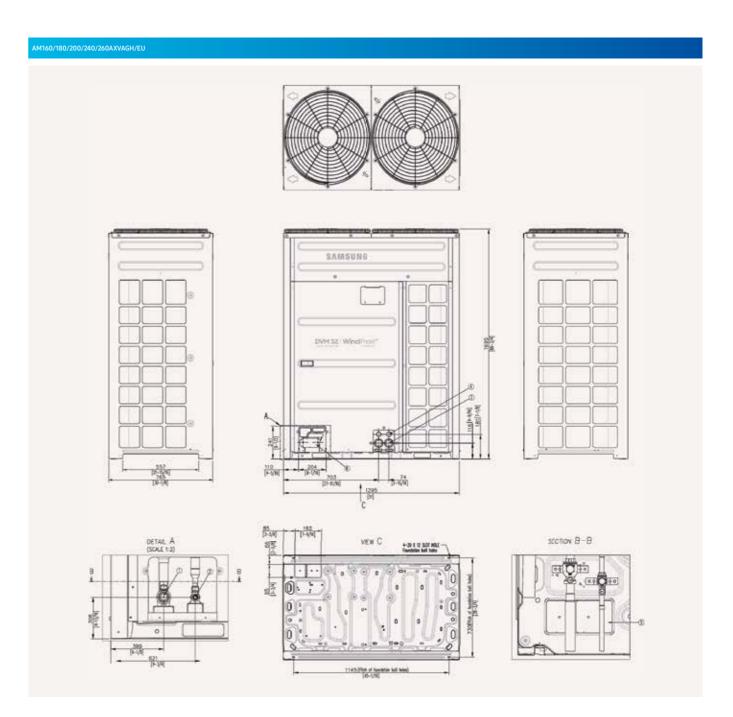
DVM S2 Standard Heat Pump (2-Pipe)



NO	Name	Description
1	Gas Ref.pipe	See NOTE 4.
2	Liquid Ref.pipe	See NOTE 4.
3	Power wiring conduit	Ø44
4	Communication wiring conduit	Ø34
5	Knock-out Hole for Ref.Piping (bottom)	
6	Knock-out Hole for Ref.Piping (front)	

- Note:
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
 2. Item 3-6: Knock-out hole
 3. View C indicate the dimension of knock-out hole (bottom)
 4. Pipe [Ø, mm(inch)]: Brazing connection

HP	Liquid pipe	Gas pipe
8	9.52(3/8)	19.05(3/4)
10	9.52(3/8)	22.22(7/8)
12	12.70(1/2)	28.58(1-1/8)
14	12.70(1/2)	28.58(1-1/8)
16	12.70(1/2)	28.58(1-1/8)
18	15.88(5/8)	28.58(1-1/8)
20	15.88(5/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)
26	19.05(3/4)	34.92(1-3/8)



NO	Name	Description
1	Gas Ref.pipe	See NOTE 4.
2	Liquid Ref.pipe	See NOTE 4.
3	Power wiring conduit	Ø44
4	Communication wiring conduit	Ø34
5	Knock-out Hole for Ref.Piping (bottom)	
6	Knock-out Hole for Ref.Piping (front)	

- Note:
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
 2. Item 3-6: Knock-out hole
 3. View C indicate the dimension of knock-out hole (bottom)
 4. Pipe [Ø, mm(inch)]: Brazing connection

НР	Liquid pipe	Gas pipe
8	9.52(3/8)	19.05(3/4)
10	9.52(3/8)	22.22(7/8)
12	12.70(1/2)	28.58(1-1/8)
14	12.70(1/2)	28.58(1-1/8)
16	12.70(1/2)	28.58(1-1/8)
18	15.88(5/8)	28.58(1-1/8)
20	15.88(5/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)
26	19.05(3/4)	34.92(1-3/8)

DVM S2 High Efficiency Heat Pump (2-Pipe)

- Erp (Ecodesign) compliant and Eurovent certified
- Advanced Flash Injection™ technology
 Active AI Pressure Control
- Active Al Defrost

- Active AI Refrigerant analysis
 Durafin™ Ultra Heat Exchanger Fin
 Optional Slimmer Liquid Pipe

- On-device Inverter Checker™







				Because on	B	part and the
	Model			AM080AXVGGH/EU	AM100AXVGGH/EU	AM120AXVGGH/EU
Power Supply			Ф, #, V, Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz
Performance	hp		hp	8	10	12
. criormance	Capacity	Cooling	kW	22.4	28.0	33.6
	Capacity	Heating	kW	22.4	28.0	33.6
	Maximum number of connectable indoor units	rieating	ea	14	18	21
	Total capacity of the connected indoor units	Min.	kW	11.2	14.0	16.8
	Total capacity of the connected indoor diffes	Max.	kW	29.1	36.4	43.7
Power	Current Input	Cooling	A	11,44	15.97	19.25
Powei	Current input	Heating	A	9.09	11.41	14.37
	Current	Minimum SSC value	MVA	3.0	3.4	4.0
	current	MCA MCA				
			A	18.0	21.2	25.0
		MFA	Α	25	32	32
Energy Efficiency ¹	SEER		W/W	7.2	6.9	6.9
	SCOP		W/W	4.50	4.40	4.56
	ηs.c		%	285	273	273
	ηs.h		%	177	173	179.4
Compressor	Output		kW x n	4.6 x 1	6.67 x 1	6.67 x 1
	Oil	Туре	-	PVE	PVE	PVE
		Initial Charge	cc x n	900 x 1	1,100 x 1	1,100 x 1
Fan	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
_	Number of Fans		ea	1	1	1
	Airflow Rate		m³/min	164	181	196
			l/s	2,738.00	3,019.00	3,260.00
	External Static Pressure	Max.	mmAq	11	11	11
			Pa	110.00	110.00	110.00
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	TBD	TBD	TBD
Piping Connections	Liquid Pipe		ø, mm	9.52	9.52	12.70
			ø, inch	3/8	3/8	1/2
	Gas Pipe		ø, mm	19.05	22.22	28.58
			ø, inch	3/4	7/8	11/8
	Piping length (ODU-IDU) ³	Max. (Equiv.)	m	200 [220]	200 [220]	200 [220]
	Piping length (1st Branch - IDU) ³	Max.		90	90	90
	Total piping length (System)	Max.		1,000	1,000	1,000
	Level difference (ODU in highest position) ³	Max.		110	110	110
	Level difference (IDU in highest position) ³	Max.		110	110	110
	Level Difference (IDU-IDU) ³	Max.		50	50	50
Wiring Connections	Transmission Cable		mm²	0.75	0.75	0.75
	Remark		-	F1, F2	F1, F2	F1, F2
Refrigerant	Туре		-		OA(Fluorinated greenhouse gas, GWP=2	
	Factory Charging		kg	7.0	7.0	7.0
			tCO₂e	14.62	14.62	14.62
Sound	Sound Pressure ²	Cooling	dB(A)	53	56	61
		Heating	dB(A)	58	60	63
	Sound Power	Cooling	dB(A)	75	78	81
External Dimensions	Net Weight		kg	194	205	205
	Net Dimensions (W x H x D)		mm	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765
Operating	Cooling		°C	-5~50	-5~50	-5~50
Temperature Range	Heating			-25~24	-25~24	-25~24



- ¹ Performances are based on the following test conditions:

 Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB

 Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB

 Equivalent refrigerant piping: 7.5 m, Level differences: 0 m
- ² Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a
- ³ ODU: Outdoor Unit, IDU: Indoor Unit













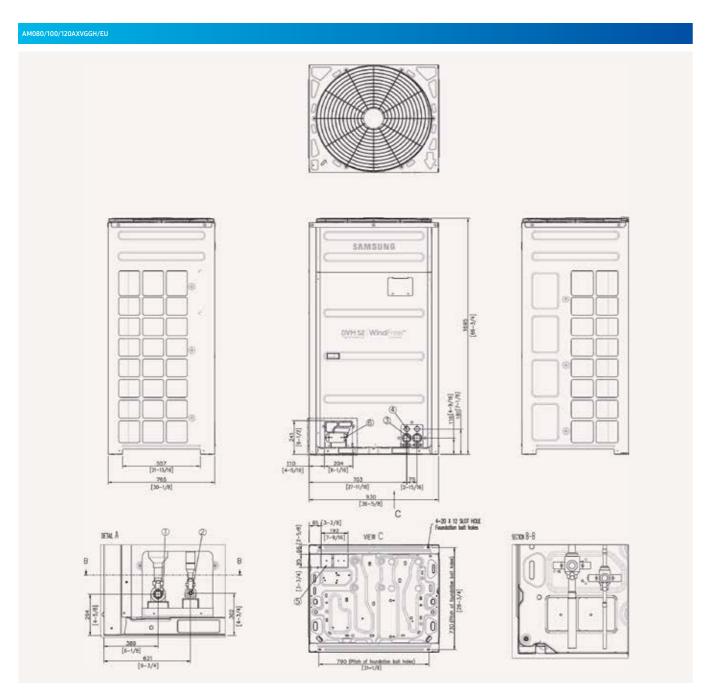


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144	M260AXVGGH/EU		AM240AXVGGH/EU	AM220AXVGGH/EU	AM200AXVGGH/EU	AM180AXVGGH/EU	AM160AXVGGH/EU	AM140AXVGGH/EU
400	4, 380–415 V, 50 H	z	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380–415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380–415 V, 50 Hz
Mathematical Math	26		24	22	20	18	16	14
26 29 32 35 40 45	72.8		67.2	61.6	56.0	50.4	45.0	40.0
200	68.0		67.2	61.6	56.0	50.4	45.0	40.0
S.S.0	47		43	36 40 43		32	29	26
15544	36.4		33.6	30.8	28.0	25.2	22.5	20.0
17126	94.6		87.4	80.1	72.8	65.5	58.5	52.0
444 5.2 6.4 7.0 7.4 9.3	57.61		48.62	44.15	38.63	26.79	26.96	25.44
	45.11		44.20	27.29	25.72	21.14	19.35	17.06
32	10.2		9.3	7.4	7.0	6.4	5.2	4.4
6.7 6.9 7.5 6.5 6.2 5.9 4.25 4.30 4.80 4.50 4.30 3.90 4.26 2.73 2.97 2.57 2.45 2.33 167 1.90 1.89 1.77 1.69 1.53 6.67 x1 8.93 x1 8.93 x1 8.93 x1 6.67 x2 6.67 x2 1.00 x1 1.400 x1 1.400 x1 1.400 x1 1.100 x2 1.100 x2 PVE	60.0		55.0	46.0	43.0	39.2	32.0	27.0
4.25	75		63	63	63	50	40	32
265 273 297 257 245 233 167 169 189 177 169 153 166 165	5.4		5.9	6.2	6.5	7.5	6.9	6.7
167 169 189 177 169 153 667x1 893x1 893x1 879x1 667x2 667x2 PVE <	3.90		3.90	4.30	4.50	4.80	4.30	4.25
167	213		233	245	257	297	273	265
PVE PVE <td>153</td> <td></td> <td></td> <td></td> <td></td> <td>189</td> <td></td> <td></td>	153					189		
PVE PVE <td>6.67 x 2</td> <td></td> <td>6.67 x 2</td> <td>6.67 x 2</td> <td>8.93 x 1</td> <td>8.93 x1</td> <td>8.93 x 1</td> <td>6.67 x 1</td>	6.67 x 2		6.67 x 2	6.67 x 2	8.93 x 1	8.93 x1	8.93 x 1	6.67 x 1
1,100 x1	PVE							
Propeller Proper Part Property Pro	1,100 x 2		1.100 x 2					1.100 x 1
Top Top Top Top Top Top 2 2 2 2 2 2 291 292 313 313 342 365 4,852,00 4,866,00 5,209,00 5,209,00 5,998,00 6,089,00 111 11 11 11 11 11 8 110,00 110,00 110,00 110,00 80,00 80,00 BLDC Motor BLDC Motor<	Propeller							
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 342 365 4 4 5 4 852.00 \$,688.00 5,099.00 5,698.00 6,089.00 5 6 4 6 6 89.00 1 <td>Тор</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Тор							
291 292 313 313 342 365 4,852.00 4,866.00 5,209.00 5,698.00 6,089.00 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 18 110.00 180.00 80.00 <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2							
4,852,00 4,866,00 5,209,00 5,698,00 6,089,00 11 11 11 11 11 11 8 110,00 110,00 110,00 110,00 110,00 80,00 BLDC Motor BLDC Motor BLDC Motor BLDC Motor BLDC Motor BLDC Motor TBD TBD TBD TBD TBD TBD TBD 12,70 12,70 15,88 28,58 28,58 28,58	365							
11	6,089.00							
110.00	8							
BIDC Motor	80.00							
TBD TBD TBD TBD TBD 1270 12.70 15.88 15.88 15.88 15.88 1/2 1/2 5/8 5/8 5/8 5/8 5/8 28.58 28.58 28.58 28.58 28.58 34.92 11/8 11/8 11/8 11/8 11/8 11/8 13/8 200 (220) 200 (220) 200 (220) 200 (220) 200 (220) 200 (220) 90 9 9 9 90 90 90 90 1,000	BLDC Motor							
1270 12.70 15.88 15.88 15.88 15.88 1/2 1/2 5/8 5/8 5/8 5/8 28.58 28.58 28.58 28.58 28.58 34.92 11/8 11/8 11/8 11/8 11/8 13/8 200 (220] 200 (220] 200 (220) 200 (220) 200 (220) 90 90 90 90 90 90 1000 1,000 1,000 1,000 1,000 1,000 1,000 110 110 110 110 110 110 110 110 <td< td=""><td>TBD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	TBD							
1/2 1/2 5/8 5/8 5/8 5/8 28.58 28.58 28.58 28.58 34.92 11/8 11/8 11/8 11/8 11/8 13/8 200 [220] 200 [220] 200 [220] 200 [220] 200 [220] 200 [220] 90 90 90 90 90 90 90 90 1,000	19.05							
28.58 28.58 28.58 28.58 28.58 34.92 11/8 11/8 11/8 11/8 11/8 13/8 200 [220] 200 [220] 200 [220] 200 [220] 200 [220] 90 90 90 90 90 1,000 1,000 1,000 1,000 1,000 110 110 110 110 110 110 110	3/4							
11/8 11/8 11/8 11/8 11/8 11/8 13/8 200 [220] 200 [220] 200 [220] 200 [220] 200 [220] 200 [220] 90 90 90 90 90 90 90 1,000 1,000 1,000 1,000 1,000 1,000 1,000 110 <td>34.92</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	34.92							
200 [220] 200 [220] 200 [220] 200 [220] 200 [220] 200 [220] 90 90 90 90 90 90 90 1,000 1,000 1,000 1,000 1,000 1,000 1,000 110	13/8							
90 90 90 90 90 90 90 90 90 90 90 1,000 1,	200 [220]							
1,000 1,000 1,000 1,000 1,000 1,000 110 110 110 110 110 110 110 110 110 110 110 110 110 110 50 50 50 50 50 50 50 0.75 0.75 0.75 0.75 0.75 0.75 0.75 F1, F2 F	90							
110 110 <td>1,000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1,000							
110 110 110 110 110 110 110 110 110 110 110 110 110 110 10 50	110							
50 50 50 50 50 0.75 0.75 0.75 0.75 0.75 0.75 FI,F2 F1,F2	110							
0.75 0.75 0.75 0.75 0.75 0.75 FI, F2 F1, F2 F1, F2 F1, F2 F1, F2 F1, F2 R410A(Fluorinated greenhouse gas, GWP=2,088) 8.0 10.5 10.5 14.0 16.70 21.92 21.92 21.92 29.23 58 58 59 61 64 65 61 61 63 63 65 67 81 81 81 84 86 87 233 262 268 268 301 325 1,295 x1,695 x765	50							
F1,F2 F1,F2 <th< td=""><td>0.75</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	0.75							
R410A(Fluorinated greenhouse gas, GWP=2,088) 8.0 10.5 10.5 10.5 14.0 16.70 21.92 21.92 21.92 29.23 58 58 59 61 64 65 61 61 63 63 65 67 81 81 84 86 87 233 262 268 268 301 325 1,295 x 1,695 x 765 1,295 x 1,695 x	0.75 F1, F2							
8.0 10.5 10.5 10.5 10.5 14.0 16.70 21.92 21.92 21.92 29.23 58 58 59 61 64 65 61 61 63 63 65 67 81 81 84 86 87 233 262 268 268 301 325 1,295 x 1,695 x 765 1,295 x 1,695	F I, FZ		F I, FZ				F1, F2	F1, FZ
16.70 21.92 21.92 21.92 21.92 29.23 58 58 59 61 64 65 61 61 63 63 65 67 81 81 81 84 86 87 233 262 268 268 301 325 1,295 x 1,695 x 765 1,295 x 1	14.0		14.0				10 5	9.0
58 58 59 61 64 65 61 61 63 63 65 67 81 81 81 84 86 87 233 262 268 268 301 325 1,295 x 1,695 x 765 1,295 x 1,695 x 76								
61 61 63 63 65 67 81 81 81 81 84 86 87 233 262 268 268 301 325 1,295 x1,695 x765 1,295 x1,695 x165 1,2	29.23							
81 81 81 84 86 87 233 262 268 268 301 325 1,295 x1,695 x765	65							
233 262 268 268 301 325 1,295 x1,695 x765 1,295 x1,695 x765 1,	67							
1,295 x 1,695 x 765	87							
	325							
_5_50 _5_50 _5_50 _5_50 _5_50 _5_50 _5_50 _5_50	,295 x 1,695 x 765							
-5-50 -5-50	-5~50 -25~24		-5~50	-5~50	-5~50	-5~50	-5~50	-5~50

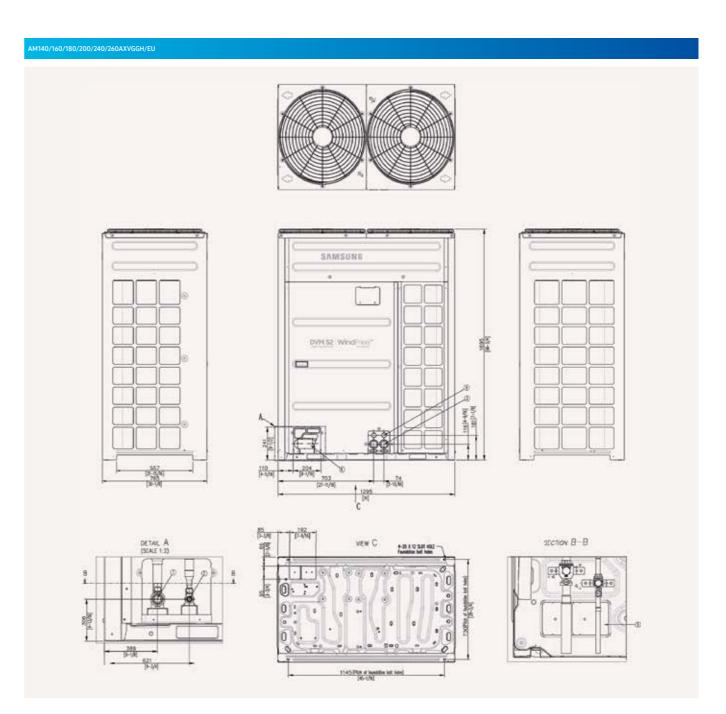
DVM S2 High Efficiency Heat Pump (2-Pipe)



NO	Name	Description
1	Gas Ref.pipe	See NOTE 4.
2	Liquid Ref.pipe	See NOTE 4.
3	Power wiring conduit	Ø44
4	Communication wiring conduit	Ø34
5	Knock-out Hole for Ref.Piping (bottom)	
6	Knock-out Hole for Ref.Piping (front)	

- Note:
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
 2. Item 3-6: Knock-out hole
 3. View C indicate the dimension of knock-out hole (bottom)
 4. Pipe [Ø, mm(inch)]: Brazing connection

НР	Liquid pipe	Gas pipe
8	9.52(3/8)	19.05(3/4)
10	9.52(3/8)	22.22(7/8)
12	12.70(1/2)	28.58(1-1/8)
14	12.70(1/2)	28.58(1-1/8)
16	12.70(1/2)	28.58(1-1/8)
18	15.88(5/8)	28.58(1-1/8)
20	15.88(5/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)
26	19.05(3/4)	34.92(1-3/8)



NO	Name	Description
1	Gas Ref.pipe	See NOTE 4.
2	Liquid Ref.pipe	See NOTE 4.
3	Power wiring conduit	Ø44
4	Communication wiring conduit	Ø34
5	Knock-out Hole for Ref.Piping (bottom)	
6	Knock-out Hole for Ref.Piping (front)	

- Note:
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
 2. Item 3-6: Knock-out hole
 3. View C indicate the dimension of knock-out hole (bottom)
 4. Pipe [Ø, mm(inch)]: Brazing connection

HP	Liquid pipe	Gas pipe
8	9.52(3/8)	19.05(3/4)
10	9.52(3/8)	22.22(7/8)
12	12.70(1/2)	28.58(1-1/8)
14	12.70(1/2)	28.58(1-1/8)
16	12.70(1/2)	28.58(1-1/8)
18	15.88(5/8)	28.58(1-1/8)
20	15.88(5/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)
26	19.05(3/4)	34.92(1-3/8)

DVM S Eco Heat Recovery (With Heat Recovery Changer Kit)

- Horizontal discharge and rear suction by means of two propeller BLDC Inverter fans.
 Each module houses one Twin BLDC Rotatory compressor.
- Night Silent Mode available.
- Eurovent certified and ErP (Ecodesign) compliant.
 Four-way direction piping connection.







	Model			AM040NXMDER/EU	AM050NXMDER/EU	AM060NXMDER/EU
Power Supply			Ф, V, Hz	1Ф, 220~240 V, 50 Hz	1Ф, 220~240 V, 50 Hz	1Ф, 220~240 V, 50 Hz
Performance	hp		hp	4	5	6
	Capacity	Cooling	kW	12.1	14.0	15.5
		Heating	kW	12.1	14.0	15.5
Power	Power Input (Nominal)	Cooling	kW	2.69	3.41	4.13
	,	Heating	kW	2.58	3.11	3.65
	Current Input (Nominal)	Cooling	A	4.1	5.2	6.3
		Heating	A	3.8	4.5	5.3
	Current	MCA	A	22.0	24.0	30.0
	Current	MFA	Α	25	30	40
Energy Efficiency ¹	EER (Nominal Cooling)		W/W	4.50	4.11	3.75
z.ic.g, z.iiciciic,	COP (Nominal Heating)		W/W	4.80	4.70	4.45
	SEER		W/W	10.50	10.10	9.50
Compressor	Туре		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
compressor	Output		kW	4.04	4.04	4.04
	Oil	Туре	-	PVE	PVE	PVE
		Initial Charge	сс	1,700	1,700	1,700
Fan .	Туре	initial Charge	-	Propeller/BLDC	Propeller/BLDC	Propeller/BLDC
	Discharge direction		-	Horizontal	Horizontal	Horizontal
	Motor (Output)		kW×n	125.0 x 2	125.0 x 2	125.0 x 2
	Airflow Rate	(H/M/L)	m³/min	125.0 X Z	125.0 X 2	125.0 X Z
	All tow Rate	(H/M/L)	l/s			
	External Static Pressure	(Min/Std/Max)	mmAq	1,666.70	1,666.70	1,666.70
Piping Connections	Liquid Pipe	(MIII/Stu/Max/	ø, mm	9.52	9.52	9.52
Piping Connections	Liquid Pipe				3/8	3/8
	Gas Pipe		ø, inch	3/8		
	das Pipe		ø, mm	15.88	15.88	19.05
	Disabages Cas Dire		ø, inch	5/8	5/8	3/4
	Discharge Gas Pipe		ø, mm ø, inch	15.88	15.88	15.88
	Installation Many Longth		m m	5/8	5/8 150	
	Installation Max. Length Installation Max. Height			150		150
Field Wiston	Transmission Cable		m 	50	50	50
Field Wiring			m	0.75~1.50	0.75~1.50	0.75~1.50
Refrigerant	Type Factory Charging		- ka	3.2	A(Fluorinated greenhouse gas, GWP=2 3.2	,088)
	Factory Charging		kg /+CO o			
Sound ²	Sound Pressure		kg / tCO ₂ e dB(A)	6.7	6.7	6.9
Juliu -				52	52	53
External Direction	Sound Power		dB(A)	67	68	70
External Dimensions	Net Weight		kg	97.0	97.0	100.0
Onemakina	Net Dimensions (W x H x D)		mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330
Operating Temperature Range	Cooling		°C	-5.0~48.0	-5.0~48.0	-5.0~48.0
	Heating		°C	-25.0~26.0	-25.0~26.0	-25.0~26.0







AM040NXMDGR/EU	AM050NXMDGR/EU	AM060NXMDGR/EU
3Ф, 380~415 V, 50 Hz	3Ф, 380~415 V, 50 Hz	3Ф, 380~415 V, 50 Hz
4	5	6
12.1	14.0	15.5
12.1	14.0	15.5
2.69	3.41	4.13
2.58	3.11	3.65
4.1	5.2	6.3
3.8	4.5	5.3
10.0	12.0	12.0
16	16	16
4.50	4.11	3.75
4.80	4.70	4.45
10.50	10.10	9.50
Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
4.04	4.04	4.04
PVE	PVE	PVE
1,700	1,700	1,700
Propeller/BLDC	Propeller/BLDC	Propeller/BLDC
Horizontal	Horizontal	Horizontal
125.0 x 2	125.0 x 2	125.0 x 2
100	100	100
1,666.70	1,666.70	1,666.70
3	3	3
9.52	9.52	9.52
3/8	3/8	3/8
19.05	19.05	19.05
3/4	3/4	3/4
15.88	15.88	15.88
5/8	5/8	5/8
150	150	150
50	50	50
0.75~1.50	0.75~1.50	0.75~1.50
R410	A(Fluorinated greenhouse gas, GWP=2	.,088)
3.2	3.2	3.3
6.7	6.7	6.9
52	52	53
67	68	70
95.0	95.0	98.0
940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330
-5.0~48.0	-5.0~48.0	-5.0~48.0
-25.0~26.0	-25.0~26.0	-25.0~26.0

¹Performances are based on the following test

- Performances are based on the following test conditions:

 Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB

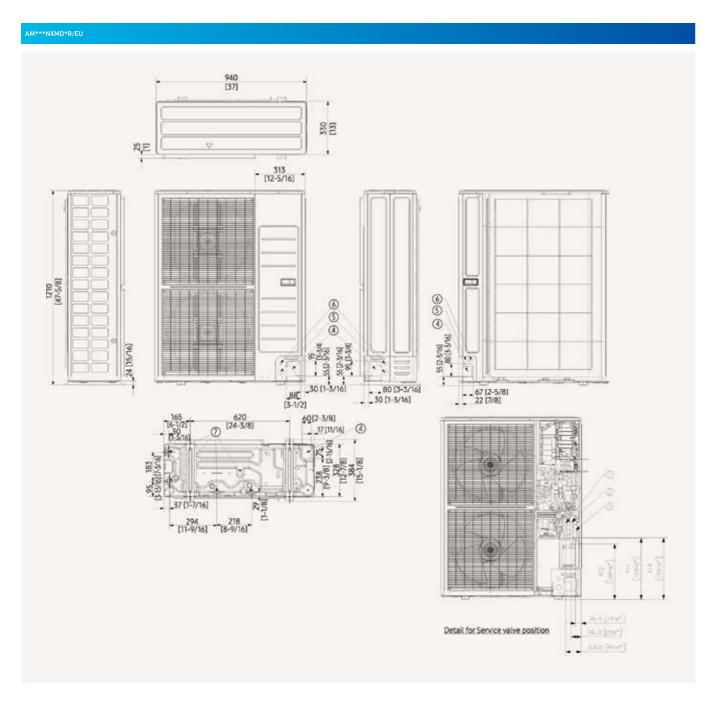
 Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB

 Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

²Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.



DVM S Eco Heat Recovery (With Heat Recovery Changer Kit)



NO	Name	Description					
		4/5 hp	6 hp				
1	Refrigerant liquid pipe	ø9.52 (ø3/8)					
2	Refrigerant gas pipe	ø15.88 (ø5/8)					
3	Knock-out hole for pipe intake	Front/Side/Rear/Bottom					
4	Power wiring conduits	Front/Side/Rear, ø34.00 (ø1 3/8)					
5	Communication wiring conduits	Front/Side/Rear, ø22.00 (ø7/8)					
6	Drain holes	Connect with the p	provided drain plug.				



DVM S2 High EER Heat Recovery (3-Pipe)

- Erp (Ecodesign) compliant and Eurovent certified
- Advanced Flash Injection™ technology
 Active AI Pressure Control
- Active Al Defrost

- Active AI Refrigerant analysis
- Durafin™ Ultra Heat Exchanger Fin
 Optional Slimmer Liquid Pipe







				Section 1	Section 1	Section 1
	Model			AM080AXVGGR/EU	AM100AXVGGR/EU	AM120AXVGGR/EU
Power Supply			Φ, #, V, Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz
Mode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	hp		hp	8	10	12
	Capacity	Cooling	kW	22.4	28.0	33.6
		Heating	kW	22.4	28.0	33.6
	Maximum number of connectable indoor units		ea	14	18	21
	Total capacity of the connected indoor units	Min.	kW	11.2	14.0	16.8
		Max.	kW	29.1	36.4	43.7
Power	Current Input	Cooling	Α	11.44	15.97	19.25
		Heating	Α	9.09	11.41	14.37
	Current	Minimum SSC value	MVA	3.0	3.4	4.0
		MCA	Α	18.0	21.1	25.0
		MFA	Α	25	32	32
Energy Efficiency ¹	SEER		W/W	7.2	6.9	6.9
	SCOP		W/W	4.5	4.4	4.56
	ηs.c		%	285	273	273
	ηs.h		%	177	173	179.4
Compressor	Output		-	4.6 x 1	6.67 x 1	6.67 x 1
	Oil	Туре	-	PVE	PVE	PVE
		Initial Charge	cc x n	900 x 1	1,100 x 1	1,100 x 1
Fan	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
-	Number of Fans		ea	1	1	1
	Airflow Rate		m³/min	164	181	196
			l/s	2,738	3,019	3,260
	External Static Pressure	Max.	mmAq	11	11	11
			Pa	110	110	110
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	630 x 1	630 x 1	630 x 1
Piping Connections	Liquid Pipe		ø, mm	9.52	9.52	12.70
			ø, inch	3/8	3/8	1/2
	Gas Pipe		ø, mm	19.05	22.22	28.58
			ø, inch	3/4	7/8	11/8
	High Pressure Gas Pipe (HR Only)		ø, mm	15.88	19.05	19.05
			ø, inch	5/8	3/4	3/4
	Piping length (ODU-IDU) ³	Max. (Equiv.)	m	200 [220]	200 [220]	200 [220]
	Piping length (1st Branch - IDU) ³	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position) ³	Max.	m	110	110	110
	Level difference (IDU in highest position) ³	Max.	m	110	110	110
	Level Difference (IDU-IDU) ³	Max.	m	-	-	-
Wiring Connections	Transmission Cable		mm²	0.75	0.75	0.75
	Remark		-	F1, F2	F1, F2	F1, F2
Refrigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2,0	088)
,	Factory Charging		kg	7.0	7.0	7.0
			tCO ₂ e	14.62	14.62	14.62
Sound	Sound Pressure ²	Cooling	dB(A)	53	56	61
		Heating	dB(A)	58	60	63
	Sound Power	-	dB(A)	75	78	81
External Dimensions	Net Weight		kg	199	211	211
	Net Dimensions (W x H x D)		mm	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765
Operating	Cooling		°C	-5~50	-5~50	-5~50
Temperature Range	5			- 50	- 50	- 50



- Performances are based on the following test conditions:
 Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB
 Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB
 Equivalent refrigerant piping: 7.5 m, Level differences: 0 m
- ² Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a
- ³ ODU: Outdoor Unit, IDU: Indoor Unit











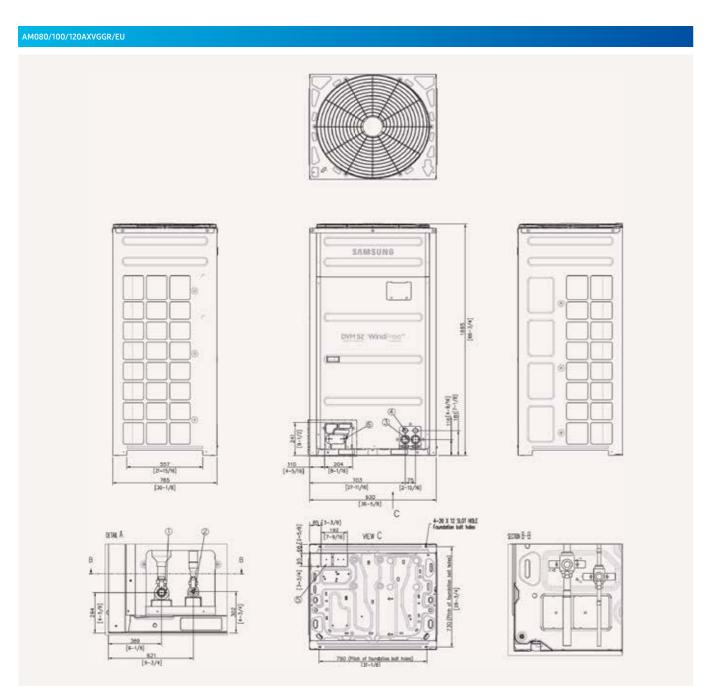






AM140AXVGGR/EU	AM160AXVGGR/EU	AM180AXVGGR/EU	AM200AXVGGR/EU	AM220AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU	
3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380–415 V, 50 Hz	3Ф, 4, 380-415 V, 50/60 Hz	3Ф, 4, 380-415 V, 50/60 H				
HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	
14	16	18	20	22	24	26	
40.0	45.0	50.4	56.0	61.6	67.2	72.8	
40.0	45.0	50.4	56.0	61.6	67.2	68.0	
26	29	32	36	40	43	47	
20.0	22.5	25.2	28.0	30.8	33.6	36.4	
52.0	58.5	65.5	72.8	80.1	87.4	94.6	
25.44	26.96	26.79	38.63	44.15	48.62	57.61	
17.06	19.35	21.14	25.72	27.29	44.20	45.11	
4.4	5.2	6.4	7.0	7.4	9.3	10.2	
27.0	32.0	39.2	43.0	46.0	55.0	60.0	
32	40	50	63	63	63	75	
6.7	6.9	7.5	6.5	6.2	5.9	5.4	
4.25	4.3	4.8	4.5	4.3	3.9	3.9	
265	273	297	257	245	233	213	
167	169	189	177	169	153	153	
6.67 x 1	8.93 x 1	8.93 x 1	8.93 x 1	6.67 x 2	6.67 x 2	6.67 x 2	
PVE	PVE	PVE	PVE	PVE	PVE	PVE	
1,100 x 1	1,400 x 1	1,400 x 1	1,400 x 1	1,100 x 2	1,100 x 2	1,100 x 2	
Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	
Тор	Тор	Тор	Тор	Тор	Тор	Тор	
2	2	2	2	2	2	2	
291	292	313	313	342	365	365	
4,852	4,866	5,209	5,209	5,698	6,089	6,089	
11	11	11	11	11	8	8	
110	110	110	110	110	80	80	
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	
620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	
12.70	12.70	15.88	15.88	15.88	15.88	19.05	
1/2	1/2	5/8	5/8	5/8	5/8	3/4	
28.58	28.58	28.58	28.58	28.58	34.92	34.92	
11/8	11/8	11/8	11/8	11/8	13/8	13/8	
22.22	22.22	22.22	28.58	28.58	28.58	28.58	
7/8	7/8	7/8	1-1/8	1-1/8	1-1/8	1-1/8	
200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	
90	90	90	90	90	90	90	
1,000	1,000	1,000	1,000	1,000	1,000	1,000	
1,000	110	110		110	110	110	
			110				
110	110	110	110	110	110	110	
-	-	-	-	-	-	-	
0.75	0.75	0.75	0.75	0.75	0.75	0.75	
F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	
0.0	40 =		Fluorinated greenhouse gas, GWI		4.0		
8.0	10.5	10.5	10.5	10.5	14.0	14.0	
16.70	21.92	21.92	21.92	21.92	29.23	29.23	
58	58	59	61	64	65	65	
61	61	63	63	65	67	67	
81	81	81	84	86	87	87	
237	268	274	274	309	332	332	
1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765				
-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	
	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	

DVM S2 High EER Heat Recovery (3-Pipe)



NO	Name	Description
1	Low Pressure Gas Ref.pipe	See NOTE 4.
2	High Pressure Ref.pipe	See NOTE 4.
3	Liquid Ref.pipe	See NOTE 4.
4	Power wiring conduit	Ø44
5	Communication wiring conduit	Ø34
6	Knock-out Hole for Ref.Piping (bottom)	
7	Knock-out Hole for Ref.Piping (front)	

Note:

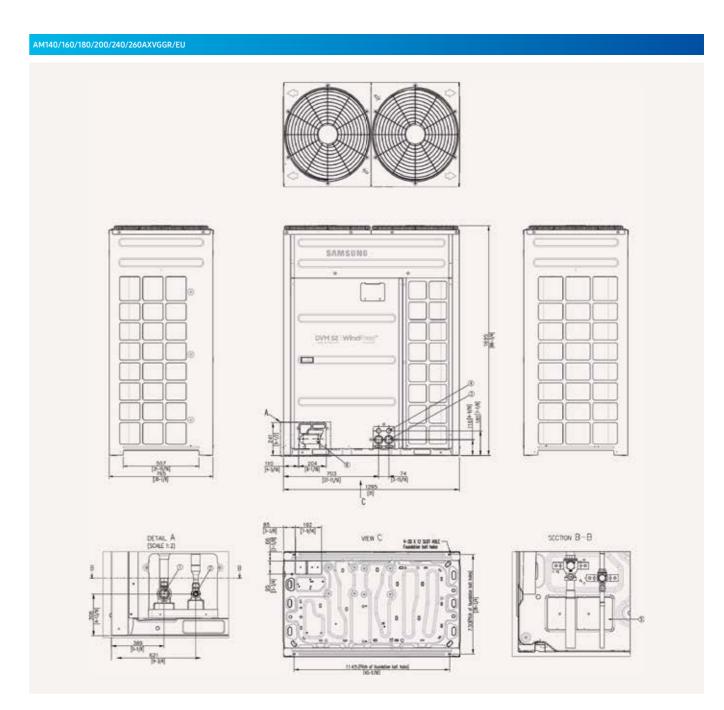
1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.

2. Item 3-7: Knock-out hole

3. View C indicate the dimension of knock-out hole (bottom)

4. Pipe [Ø, mm(inch)]: Brazing connection

HP	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe
8	9.52(3/8)	19.05(3/4)	15.88(5/8)
10	9.52(3/8)	22.22(7/8)	19.05(3/4)
12	12.70(1/2)	28.58(1-1/8)	19.05(3/4)
14	12.70(1/2)	28.58(1-1/8)	22.22(7/8)
16	12.70(1/2)	28.58(1-1/8)	22.22(7/8)
18	15.88(5/8)	28.58(1-1/8)	22.22(7/8)
20	15.88(5/8)	28.58(1-1/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)	28.58(1-1/8)
26	19.05(3/4)	34.92(1-3/8)	28.58(1-1/8)



NO	Name	Description
1	Low Pressure Gas Ref.pipe	See NOTE 4.
2	High Pressure Ref.pipe	See NOTE 4.
3	Liquid Ref.pipe	See NOTE 4.
4	Power wiring conduit	Ø44
5	Communication wiring conduit	
6	Knock-out Hole for Ref.Piping (bottom)	
7	Knock-out Hole for Ref.Piping (front)	

M	_	+	^	
1.4	u	u	C	

Note:

1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.

2. Item 3-7: Knock-out hole

3. View C indicate the dimension of knock-out hole (bottom)

4. Pipe [Ø, mm(inch)]: Brazing connection

НР	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe
8	9.52(3/8)	19.05(3/4)	15.88(5/8)
10	9.52(3/8)	22.22(7/8)	19.05(3/4)
12	12.70(1/2)	28.58(1-1/8)	19.05(3/4)
14	12.70(1/2)	28.58(1-1/8)	22.22(7/8)
16	12.70(1/2)	28.58(1-1/8)	22.22(7/8)
18	15.88(5/8)	28.58(1-1/8)	22.22(7/8)
20	15.88(5/8)	28.58(1-1/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)	28.58(1-1/8)
26	19.05(3/4)	34.92(1-3/8)	28.58(1-1/8)

DVM S Water

- Water Cooled, Variable Refrigerant Flow Heat Pump/ Heat Recovery Unit R410A.
 Suitable for indoor and outdoor installation

• Each unit houses one (8~12 hp) or two (20~30 hp) Inverter Scroll







		MkW			AM080MXWANR/EU	AM100MXWANR/EU	AM120MXWANR/EU
Power Supply				Φ, #, V, Hz	3Ф, 4, 380-415 V, 50/60 Hz	3Ф, 4, 380-415 V, 50/60 Hz	3Ф, 4, 380-415 V, 50/60 Hz
Performance	hp			hp	8	10	12
	Capacity	Cooling		kW	22.4	28.0	33.6
	(Nominal)	Heating		kW	25.2	31.5	37.8
	Maximum number	r of connectable indoor un	its	ea	14	18	22
	Total capacity of	Min.	10	kW	11.2	14.0	16.8
	the connected	Max.		kW	29.1	36.4	43.7
	indoor units						
wer	Power Input (Nominal)	Cooling		kW	3.67	4.87	6.00
		Heating		kW	3.97	5.04	6.25
	Current Input (Nominal)	Cooling		A	5.9	8.1	9.6
		Heating		A	6.4	8.4	10.0
	Current	Minimum SSC value		MVA	3.9	3.9	4.8
		MCA		Α	16.1	16.1	20.0
		MFA		A	20	20	25
P ¹	Nominal Cooling			W/W	6.10	5.75	5,60
	Nominal Heating			W/W	6.35	6.25	6.05
Compressor	Туре			-	Inverter Scroll	Inverter Scroll	Inverter Scroll
	Output			kW × n	4.96 x 1	4.96 x 1	6.13 x 1
	Oil	Туре		-	PVE	PVE	PVE
		Initial Charge		сс	3,900	3,900	3,900
ndenser	Туре			-	Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger
	Pipe Size			ø, inch	PT11/4	PT11/4	PT11/4
	Pressure Drop			kPa	22	30	43
	Water Flow Rate			l/min	80	96	114
	Max. Pressure			MPa	1.96	1.96	1.96
	Liquid Pipe			ø, mm	9.52	9.52	12.70
				ø, inch	3/8	3/8	1/2
	Gas Pipe			ø, mm	19.05	22.22	28.58
				ø, inch	3/4	7/8	11/8
oing Connections	Discharge Gas Pip	e		ø, mm	15.88	19.05	19.05
				ø, inch	5/8	3/4	3/4
	Piping length	Outdoor-Indoor	Max.	m	170 (190)	170 (190)	170 (190)
		After branch	Max.	m	90	90	90
	Total piping length	System	Actual	m	500	500	500
	Level difference	Outdoor-Indoor	Outdoor unit in highest position	m	50	50	50
			Indoor unit in highest position	m	40	40	40
		Indoor-Indoor	Max.	m	50	50	50
ring Connections	Communication	Minimum		mm²	0.75	0.75	0.75
		Remark		-	F1, F2	F1, F2	F1, F2
frigerant	Туре			-	R410	OA(Fluorinated greenhouse gas, GWP=	2,088)
	Factory Charging			kg	5.5	5.8	6.0
				tCO ₂ e	11.48	12.11	12.53
und	Sound Pressure ²		Cooling	dB(A)	48	48	50
			Heating	dB(A)	51	51	52
	Sound Power			dB(A)	70	70	70
ternal Dimensions	Net Weight			kg	160.0	160.0	160.0
	Net Dimensions (V	W x H x D)		mm	770 x 1,000 x 545	770 x 1,000 x 545	770 x 1,000 x 545
perating	Cooling			°C	10.0~45.0	10.0~45.0	10.0~45.0
mperature Range	Heating			°C	10.0~45.0	10.0~45.0	10.0~45.0





AM200MXWANR/EU	AM300KXWANR/EU		
3Ф, 4, 380-415 V, 50/60 Hz	3Ф, 4, 380-415 V, 50/60 Hz		
20	30		
56.0	84		
63	94.5		
36	55		
28.0	42.0		
72.8	109.2		
10.77	16.80		
17.3 17.4	26.4		
7.7	26.5		
32.2	48.0		
40			
5.20	63 5.00		
5.80	5.60		
Inverter Scroll	SSC Scroll x 2		
4.96 x 2	6.75 x 2		
PVE	PVE		
6,200	6,200		
Plate Heat Exchanger	Plate Heat Exchanger		
PT11/4	PT 2		
54	50		
190	285		
1.96	1.96		
15.88	19.05		
5/8	3/4		
28.58	34.92		
11/8	13/8		
28.58	28.58		
11/8	11/8		
170 (190)	170 (190)		
90	90		
500	500		
50	50		
40	40		
50	50		
0.75	0.75		
F1, F2	F1, F2		
R410A(Fluorinated gre	enhouse gas, GWP=2,088)		
9.8	11.0		
20.46	22.96		
51	55		
52	58		
73	75		
240.0	280.0		
1,100 x 1,000 x 545	1,100 x 1,000 x 545		
10.0~45.0	10.0~45.0		
10.0~45.0	10.0~45.0		

- ¹Performances are based on the following test conditions:

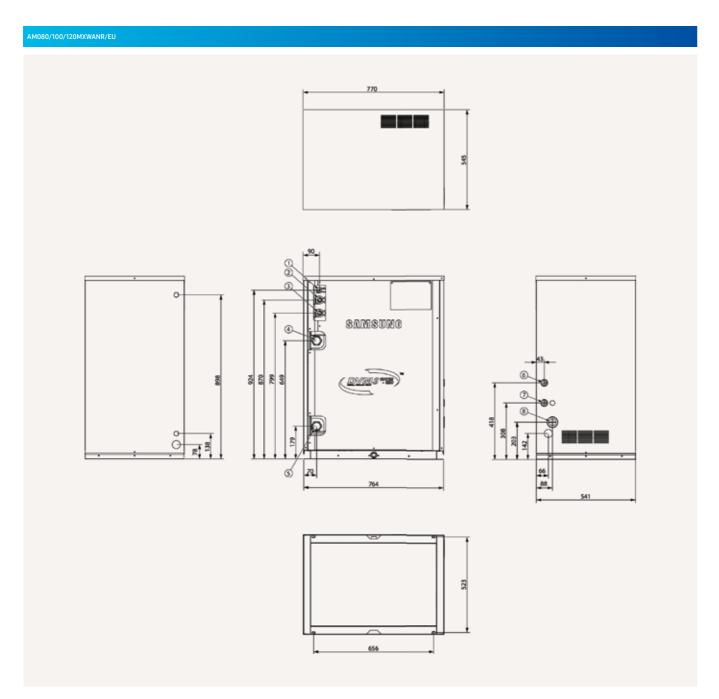
 Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Inlet water temperature: 30 °C

 Heating: Indoor temperature: 20 °C DB, 15 °C WB, Inlet water temperature: 20 °C

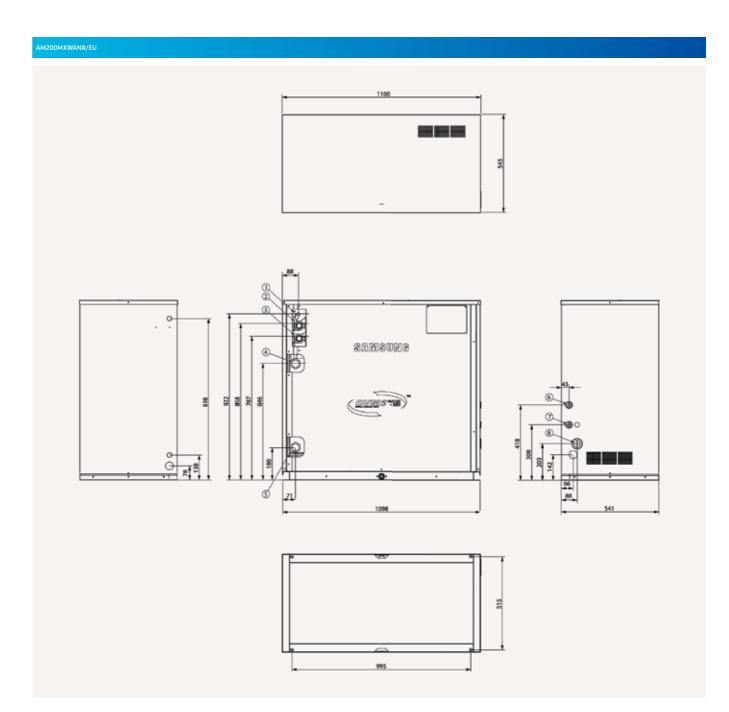
 Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

²Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

DVM S Water

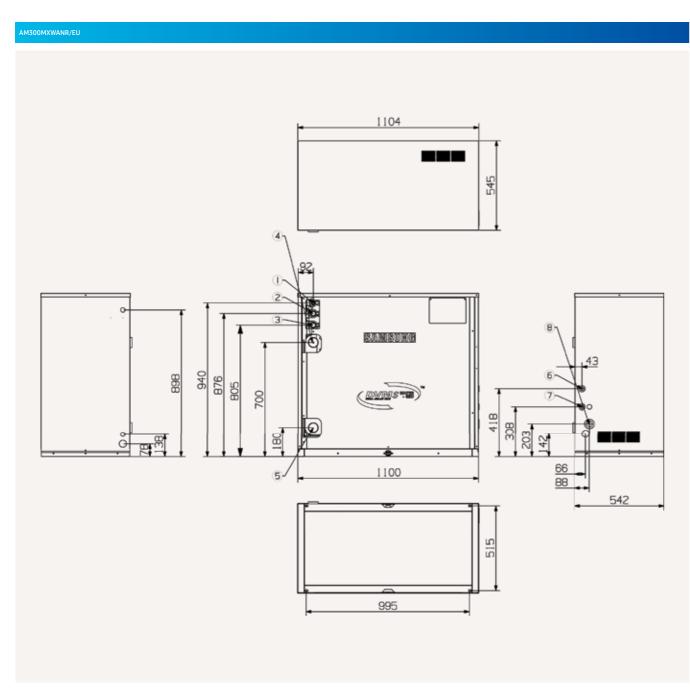


NO	Name	Description
1	Liquid Ref. pipe	ø19.05 (3/4)
2	High Pressure Gas Ref. pipe	ø28.58 (11/8)
3	Low Pressure Gas Ref. pipe	ø 34.92 (1 3/8)
4	Water outlet pipe	PT 2
5	Water inlet pipe	PT 2
6	Communication wiring conduits	
7	External contact wiring	
8	Power wiring conduits	

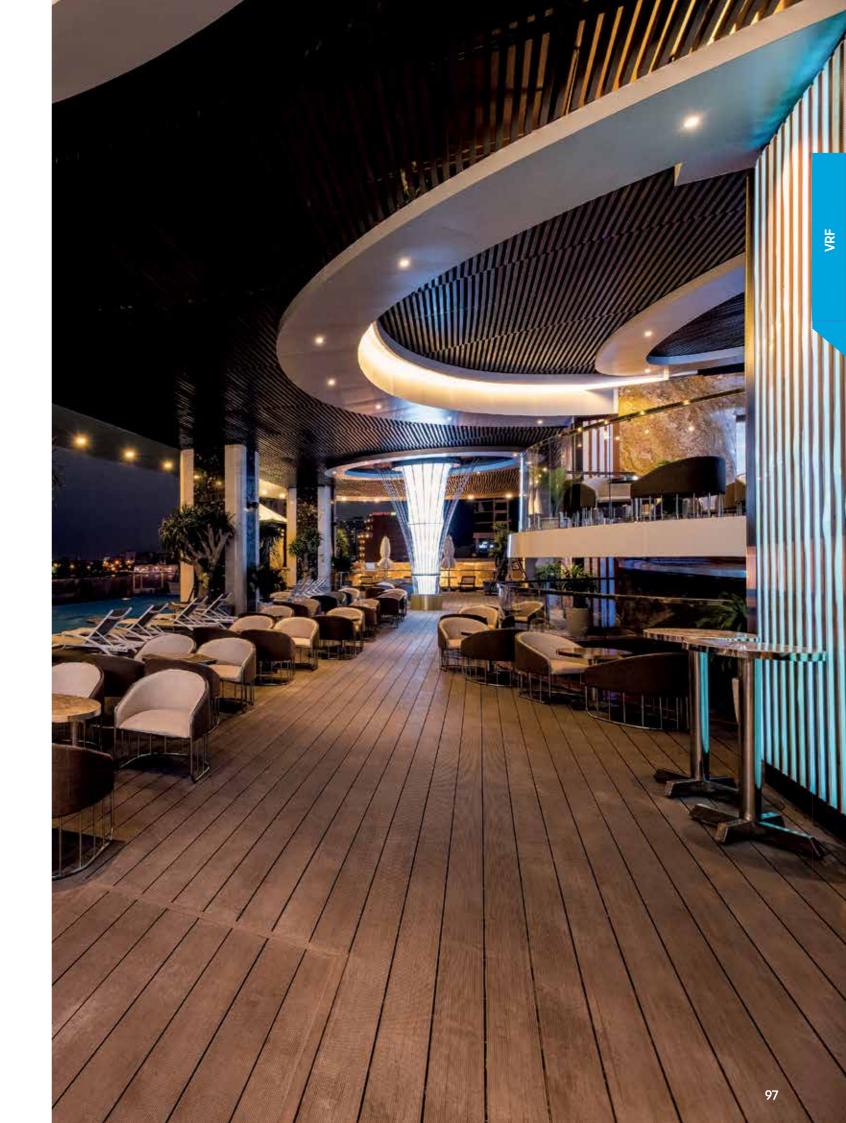


NO	Name	Description
1	Liquid Ref. pipe	15.88 (5/8)
2	High Pressure Gas Ref. pipe	ø28.58 (11/8)
3	Low Pressure Gas Ref. pipe	ø28.58 (11/8)
4	Water outlet pipe	PT11/4
5	Water inlet pipe	PT11/4
6	Communication wiring conduits	
7	External contact wiring	
8	Power wiring conduits	

DVM S Water



NO	Name	Description
1	Liquid Ref. pipe	ø19.05 (3/4)
2	High Pressure Gas Ref. pipe	ø28.58 (11/8)
3	Low Pressure Gas Ref. pipe	ø 34.92 (1 3/8)
4	Water outlet pipe	PT 2
5	Water inlet pipe	PT 2
6	Communication wiring conduits	
7	External contact wiring	
8	Power wiring conduits	



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Specifications

WindFree™ 4-Way 600 x 600 Cassette :::≏

- Fast Cooling mode and WindFree™ Cooling mode.
 Four-way air supply via independently adjustable blades.
 Built-in condensation drain pump and humidity sensor.
 Direct drive fan powered by a BLDC motor.

- Compatible with Wi-Fi Kit controller.
 Optional Motion Detect Sensor.
 Optional SPi Kit.







	Model			AM015NNNDEH/EU	AM022NNNDEH/EU	AM028NNNDEH/EU
D C l .			A # V II-			** * ** ***
Power Supply			Ф, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz
Performance	Capacity	Cooling	kW	1.5	2.2	2.8
		Heating	kW	1.7	2.5	3.2
Power	PowerInput	Cooling	W	18	18	18
		Heating	W	18	18	18
	Current Input	Cooling	Α	0.17	0.17	0.17
		Heating	A	0.17	0.17	0.17
	Current	MCA	Α	0.2	0.2	0.2
		MFA	Α	15	15	15
Fan	Туре		-	Turbo Fan	Turbo Fan	Turbo Fan
	Number of Fans		ea	1	1	1
	Airflow Rate	H/M/L	m³/min	8.2/7.0/6.3	9.0/7.7/6.5	10.0/8.5/7.5
			l/s	137/117/105	150/128/108	167/142/125
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	65 x 1	65 x 1
Piping Connections	Liquid Pipe		ø, mm	6.35	6.35	6.35
			ø, inch	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.7	12.7	12.7
			ø, inch	1/2	1/2	1/2
	Drain Pipe		ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
Wiring Connections	Communication	Min.	mm²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2,	088)
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure ¹	H/M/L	dB(A)	30.0/28.0/23.0	32.0/29.0/25.0	33.0/30.0/26.0
	Sound Power	Cooling	dB(A)	46	47	50
Dimensions	Net Weight		kg	12.0	12.0	12.0
	Net Dimensions (W × H × D)		mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
Panel	Model Name		-	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN
Drain Pump	Drain Pump		-	INCLUDED	INCLUDED	INCLUDED
	Max. Lifting Height/Displacement		mm / litres/h	750/24	750/24	750/24

Accessories								
		100 mg	22 7 8 201 - 43 201 - 5 201 - 5 201 - 5	0 (2)	-			
	Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor		
	AR-EH03E	MWR-SH00N	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA		
			ES.					
	Panel (Mandatory)	Motion Detect Sensor	SPi Kit					

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

MSD-CAN1

MCR-SMD

PC4SUFMAN



AM036NNNDEH/EU	AM045NNNDEH/EU	AM056NNNDEH/EU	AM060NNNDEH/EU
1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220-240 V, 50 H
3.6	4.5	5.6	6.0
4.0	5.0	6.3	6.8
20	23	28	31
20	23	28	31
0.19	0.22	0.27	0.30
0.19	0.22	0.27	0.30
0.2	0.3	0.4	0.4
15	15	15	15
Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
1	1	1	1
10.5/9.5/8.0	11.5/10.2/9.0	13.0/11.0/9.5	13.5/12.0/10.2
175/158/133	192/170/150	217/183/158	225/200/170
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
65 x 1	65 x 1	65 x 1	65 x 1
6.35	6.35	6.35	6.35
1/4	1/4	1/4	1/4
12.7	12.7	12.7	12.7
1/2	1/2	1/2	1/2
VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
	R410A(Fluorinated green	nhouse gas, GWP=2,088)	
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
34.0/30.0/26.0	36.0/34.0/32.0	39.0/36.0/33.0	40.0/38.0/35.0
51	53	56	57
12.0	12.0	12.0	12.0
575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
PC4SUFMAN	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN
INCLUDED	INCLUDED	INCLUDED	INCLUDED
750/24	750/24	750/24	750/24

WindFree™ 4-Way Cassette :::≏

- Fast Cooling mode and WindFree™ Cooling mode.
 Four-way air supply via independently adjustable blades.
 Built-in condensation drain pump and humidity sensor.
 Direct drive fan powered by a BLDC motor.

- Compatible with Wi-Fi Kit controller.
 Optional Motion Detect Sensor.
 Optional SPi Kit.

- Optional Air Purification Panel, Auto Elevation Panel







	Model			AM028AN4PKH/EU	AM036AN4PKH/EU	AM045AN4PKH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz
Performance	Capacity	Cooling	kW	2.8	3.6	4.5
		Heating	kW	3.2	4.0	5.0
Power	Power Input	Cooling	W	24	26	28
		Heating	W	24	26	28
	Current Input	Cooling	Α	0.25	0.27	0.30
		Heating	A	0.25	0.27	0.30
	Current	MCA	Α	0.3	0.4	0.4
		MFA	Α	15	15	15
Fan	Туре		-	Turbo Fan	Turbo Fan	Turbo Fan
Number of Fans			ea	1	1	1
	Airflow Rate		m³/min	14.4/13.4/12.4	15.4/14.4/13.4	16.3/15.4/14.4
	H/M/L		l/s	240/223/207	255/240/223	272/257/240
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	65 x 1	65 x 1
Piping Connections	Liquid Pipe		ø, mm	6.35	6.35	6.35
,			ø, inch	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.70	12.70	12.70
			ø, inch	1/2	1/2	1/2
	Drain Pipe		ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32, ID 25)
Wiring Connections	Communication	Minimum	mm²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Туре		-	R410A(Fluorinated greenhouse gas, GWP=2,088)		
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure ¹	H/M/L	dB(A)	30.0/28.0/27.0	31.0/30.0/28.0	33.0/31.0/29.0
	Sound Power	Cooling	dB(A)	46	47	49
Dimensions	Net Weight		kg	15.0	15.0	15.0
	Net Dimensions (W × H × D)		mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
Panel	Model Name		-	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
Drain Pump	Drain Pump		-	INCLUDED	INCLUDED	INCLUDED
	Max. Lifting Height/Displacement		mm / litres/h	750 / 24	750 / 24	750/24

		Acces	ssories		
998 045	No.	20 - 20 20 - 66 3 - 15 3 - 15 3 - 15	0 (2)		
Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	External Room Sensor	Panel (Mandatory)
AR-EH03E	MWR-SH00N	MWR-SH11N	MWR-WG00*N	MRW-TA	PC4NUFMAN
		000			
Air Purification Panel (Optional)	Auto Elevation Panel (Optional)	Motion Detect Sensor	SPi Kit		
PC4NUCEAN	PC4NUXMAN	MCR-SMC	MSD-CAN1		

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.









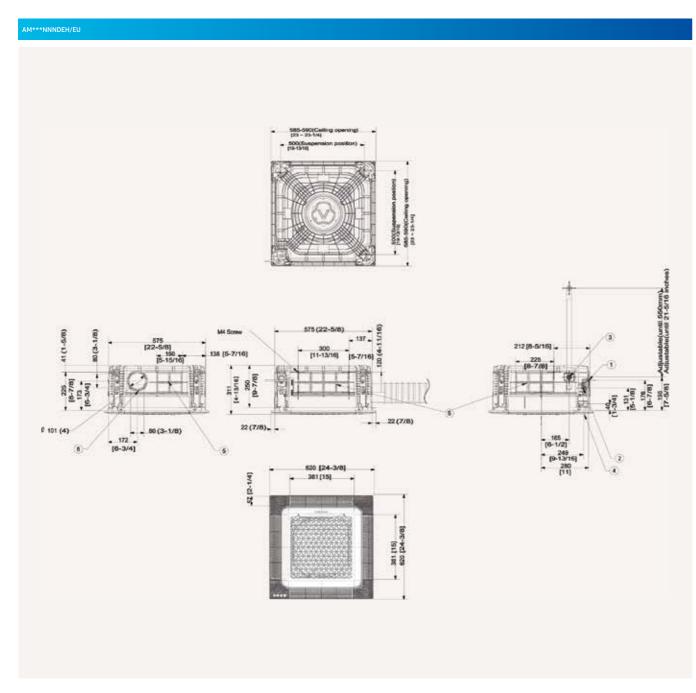




AM056AN4PKH/EU	AM071AN4PKH/EU	AM090AN4PKH/EU	AM112AN4PKH/EU	AM128AN4PKH/EU	AM140AN4PKH/EU
1Ф, 2, 220-240 V, 50/60 Hz					
5.6	7.1	9.0	11.2	12.8	14.0
6.3	8.0	10.0	12.5	13.8	16.0
32	34	55	78	95	115
32	34	55	78	95	115
0.32	0.35	0.45	0.60	0.75	0.85
0.32	0.35	0.45	0.60	0.75	0.85
0.4	0.5	0.6	0.8	1.0	1.1
15	15	15	15	15	15
Turbo Fan					
1	1	1	1	1	1
16.4/14.6/12.8	18.2/15.4/12.8	24.4/19.9/15.5	26.6/21.0/15.5	35.4/29.2/24.3	37.9/31.7/25.5
273/243/213	303/257/213	407/332/258	43/350/258	590/487/405	632/528/425
BLDC Motor					
65 x 1	65 x 1	65 x 1	65 x 1	97 x 1	97 x 1
6.35	9.52	9.52	9.52	9.52	9.52
1/4	3/8	3/8	3/8	3/8	3/8
12.70	15.88	15.88	15.88	15.88	15.88
1/2	5/8	5/8	5/8	5/8	5/8
VP25 (OD 32, ID 25)					
0.75	0.75	0.75	0.75	0.75	0.75
F1, F2					
		R410A(Fluorinated gree	nhouse gas, GWP=2,088)		
EEV INCLUDED					
35.0/33.0/29.0	37.0/34.0/30.0	39.0/35.0/30.0	41.0/36.0/30.0	42.0/37.0/35.0	44.0/39.0/35.0
51	53	55	59	58	60
16.5	16.5	18.0	18.0	21.5	21.5
840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
INCLUDED	INCLUDED	INCLUDED	INCLUDED	INCLUDED	INCLUDED
750/24	750/24	750/24	750/24	750/24	750/24

Technical Drawings

WindFree™ 4-Way 600 x 600 Cassette

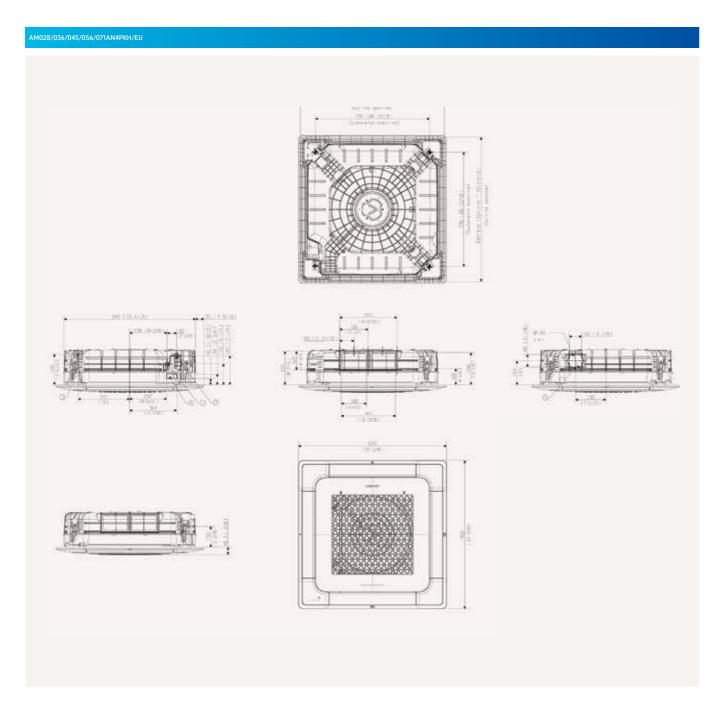


NO	Name	Description	
1	Liquid pipe connection	ø6.35 (1/4)	
2	Gas pipe connection	ø12.70 (1/2)	
3	Drain pipe connection	VP25 (OD 32, ID 25)	
4	Power supply/communication wiring conduits	Use M4 Screw	
5	Fresh air intake knock-out hole	ø10 [4], use M4 Screw	

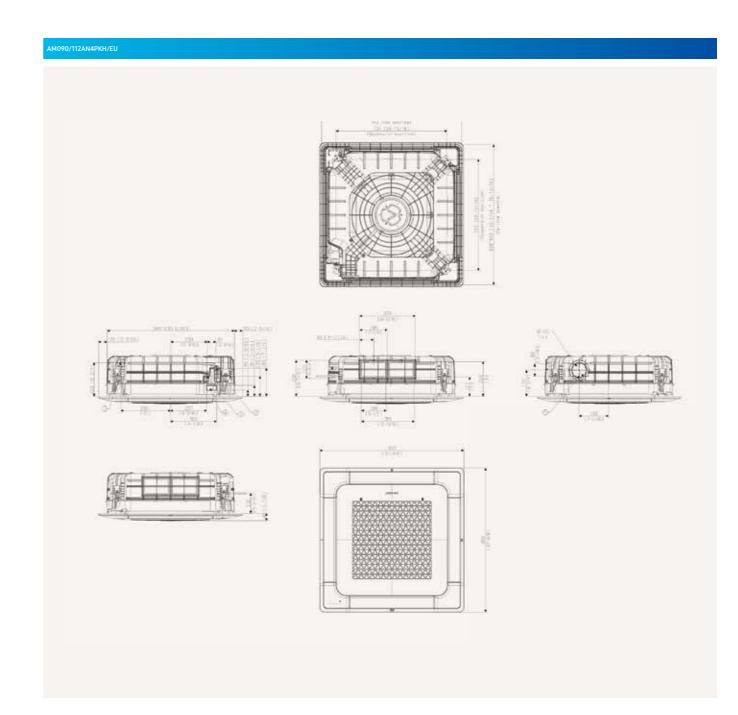


Technical Drawings

WindFree™ 4-Way Cassette



NO	Name	Description			
		AM028/036/045/056AN4PKH/EU	AM071AN4PKH/EU		
1	Liquid pipe connection	ø6.35 (1/4)	ø9.52 (3/8)		
2	Gas pipe connection	ø12.7 (1/2)	ø15.88 (5/8)		
3	Drain pipe connection	VP25 (OD	32, ID 25)		
4	Power supply/communication wiring conduits				
5	Fresh air intake knock-out hole	ø10 [4], us	e M4 Screw		



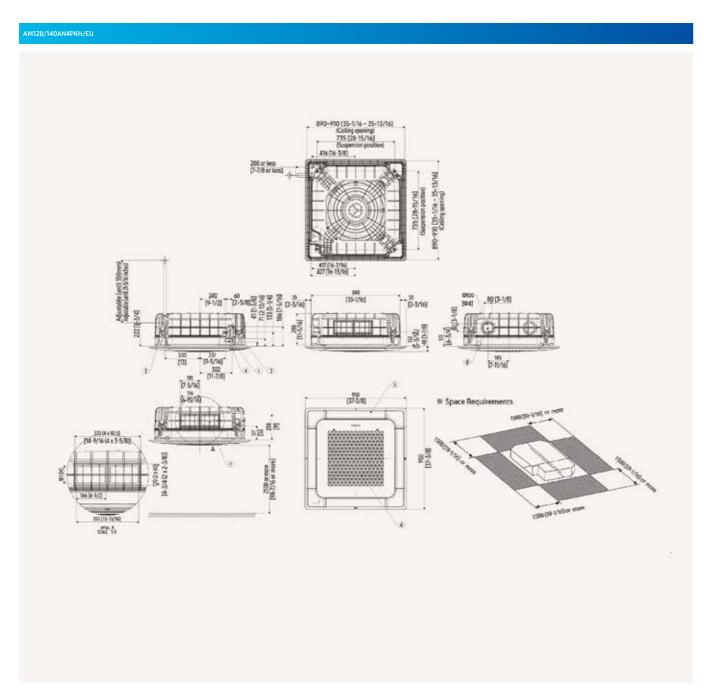
NO	Name	Description
1	Liquid pipe connection	ø9.52 (3/8)
2	Gas pipe connection	ø15.88 (5/8)
3	Drain pipe connection	VP25 (OD 32, ID 25)
4	Power supply/communication wiring conduits	
5	Fresh air intake knock-out hole	ø10 [4], use M4 Screw

Note: As for suspension bolt, please use M8~M10. (Procured at local site)

Note: As for suspension bolt, please use M8~M10. (Procured at local site)

Technical Drawings

WindFree™ 4-Way Cassette



NO	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	-
5	Air inlet grille	-
6	Air outlet louver	-
7	Sub-duct	* The sub duct is not applicable to the WindFree Panel.
8	Fresh air intake knockout hole	Ф10[4], Use M4 Screw

Note: As for suspension bolt, please use M8~M10. (Procured at local site)



WindFree™ 1-Way Cassette :::≏

- Fast Cooling mode and WindFree™ Cooling mode.
 One-way air supply by means of a 100 mm wide blade.
 Built-in condensation drain pump and humidity sensor.
 Cross-flow fan direct driven by a BLDC motor.
- Compatible with Wi-Fi Kit controllerOptional Air Purification Panel







Model				AM017NN1PEH/EU	AM022NN1PEH/EU	AM022NN1DKH/EU
ower Supply			Ф, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz
erformance	Capacity	Cooling	kW	1.7	2.2	2.2
		Heating	kW	1.9	2.5	2.5
wer	Power Input	Cooling	W	24	25	29
		Heating	w	24	25	29
	Current Input	Cooling	Α	0.14	0.15	0.16
		Heating	Α	0.14	0.15	0.16
	Current	MCA	Α	0.18	0.19	0.20
		MFA	Α	15	15	15
ı	Туре		-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Number of Fans		ea	1	1	1
	Airflow Rate	H/M/L	m³/min	4.80/4.30/4.10	5.10/4.60/4.30	6.00/5.00/4.00
			l/s	80.00/71.67/68.33	85.00/76.67/71.67	100.00/83.33/66.67
an Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	27 x 1	27 x 1	27 x 1
Piping Connections	Liquid Pipe		ø, mm	6.35	6.35	6.35
			ø, inch	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.7	12.7	12.70
			ø, inch	1/2	1/2	1/2
	Drain Pipe		ø, mm	VP20 (OD 25, ID 20)	VP20 (OD 25, ID 20)	VP20 (OD 25, ID 20)
ing	Connection with Indoor	Minimum	mm²	0.75	0.75	0.75
nections		Remark	-	F1, F2	F1, F2	F1, F2
rigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2	,088)
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
und	Sound Pressure ¹	(H/M/L)	dB(A)	28/26/24	29/26/24	29/26/24
	Sound Power	Cooling	dB(A)	46	47	47
nension	Net Weight		kg	8.0	8.0	10.0
	Net Dimensions (W x H x D)		mm	740 x 135 x 360	740 x 135 x 360	970 x 135 x 410
nel	Model Name		-	PC1MWFMAN	PC1MWFMAN	PC1NWFMAN
in pump			-	INCLUDED	INCLUDED	INCLUDED
	Max. Lifting Height/Displacement		mm / litres/h	750/24	750/24	750/24

		Acces	ssories		
896 167		History of the control of the contro	* + + + * *	1 —	-
Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	Panel (Mandatory)
AR-EH03E	MWR-SH00N	MWR-SH11N	MWR-WG00*N	MIM-H04EN	PC1*WFMAN

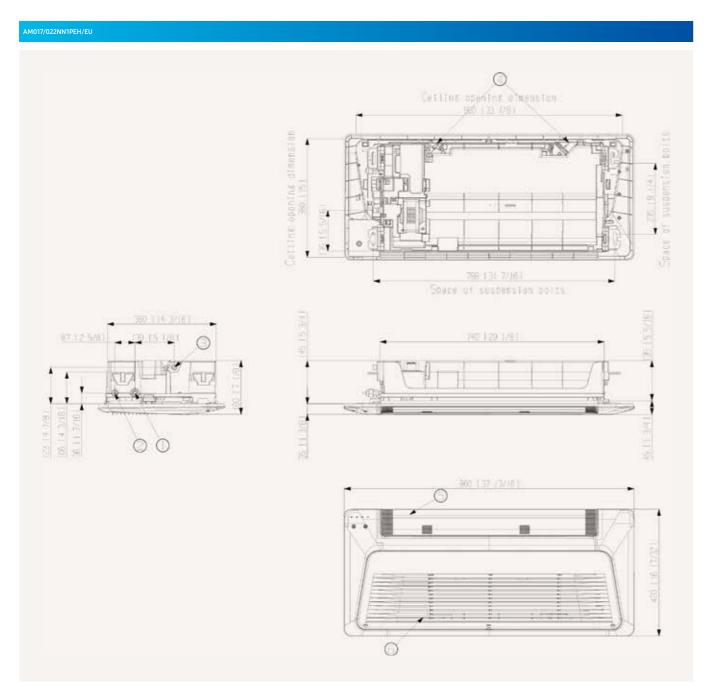
-	
Air Purification Panel (Optional)	External Room Sensor
PC1*WCMAN	MRW-TA

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

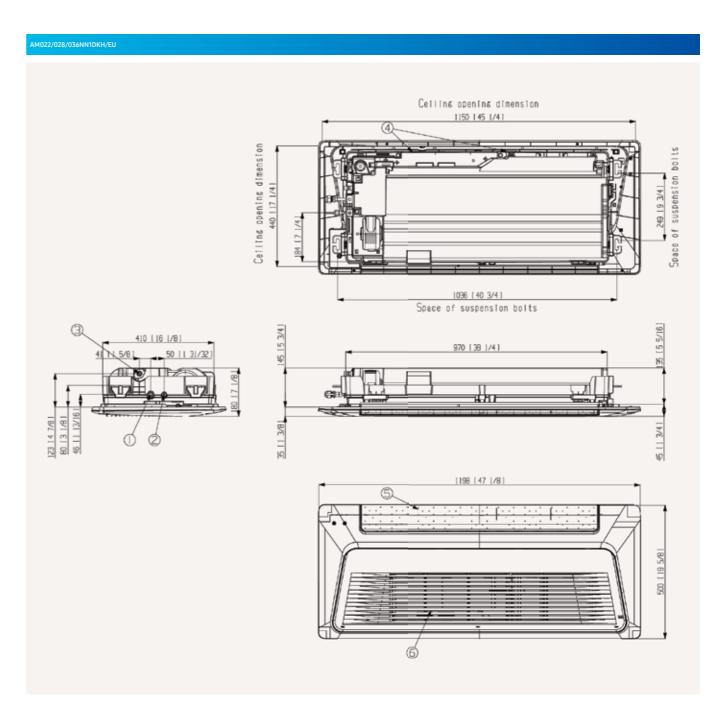


AM028NN1DKH/EU	AM036NN1DKH/EU	AM056NN1DEH/EU	AM071NN1DEH/EU
1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220-240 V, 50 H:
2.8	3.6	5.6	7.1
3.2	4.0	6.3	8.0
32	40	55	80
32	40	55	80
0.17	0.20	0.28	0.40
0.17	0.20	0.28	0.40
0.21	0.25	0.35	0.50
15	15	15	15
Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
1	1	1	1
7.00/6.00/5.00	8.00/7.00/6.00	16.00/14.00/12.50	17.00/15.50/14.00
116.67/100.00/83.33	133.33/116.67/100.00	266.67/233.33/208.33	283.33/258.33/233.33
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
27 x 1	27 x 1	54 x 1	54 x 1
6.35	6.35	6.35	9.52
1/4	1/4	1/4	3/8
12.70	12.70	12.7	15.88
1/2	1/2	1/2	5/8
VP20 (OD 25, ID 20)			
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
	R410A(Fluorinated gree	nhouse gas, GWP=2,088)	
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
32/28/24	37/33/30	41/38/35	42/39/36
50	55	59	60
10.0	10.0	13.5	13.5
970 x 135 x 410	970 x 135 x 410	1,200 x 138 x 450	1,200 x 138 x 450
PC1NWFMAN	PC1NWFMAN	PC1BWFMAN	PC1BWFMAN
INCLUDED	INCLUDED	INCLUDED	INCLUDED
750/24	750/24	750/24	750/24

WindFree™ 1-Way Cassette

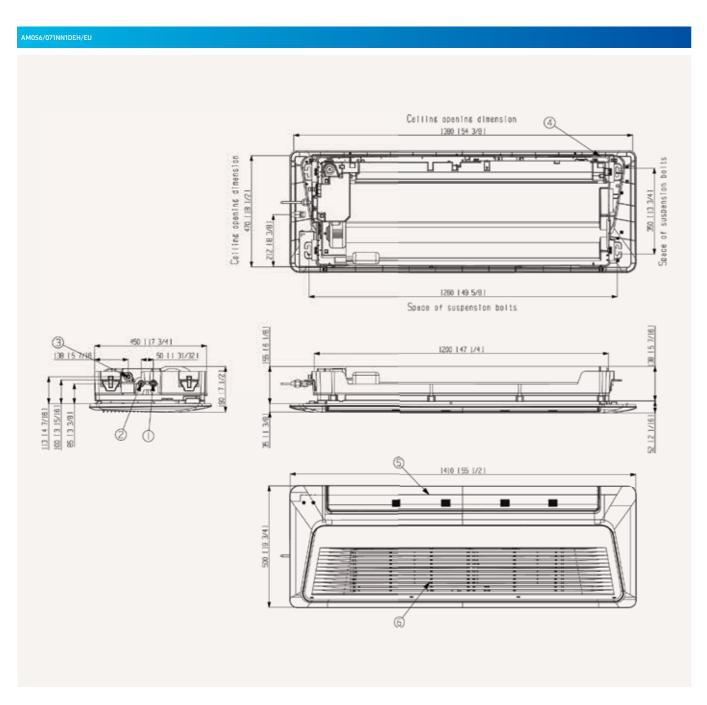


NO	Name	Description
1	Gas pipe connection	Ø12.7 (1/2")
2	Liquid pipe connection	Ø6.35 (1/4")
3	Drain hose connection	VP20 (OD26, ID20)
4	Power supply/Communication wiring conduit	-
5	Air outlet louver	-
6	Air inlet grille	-

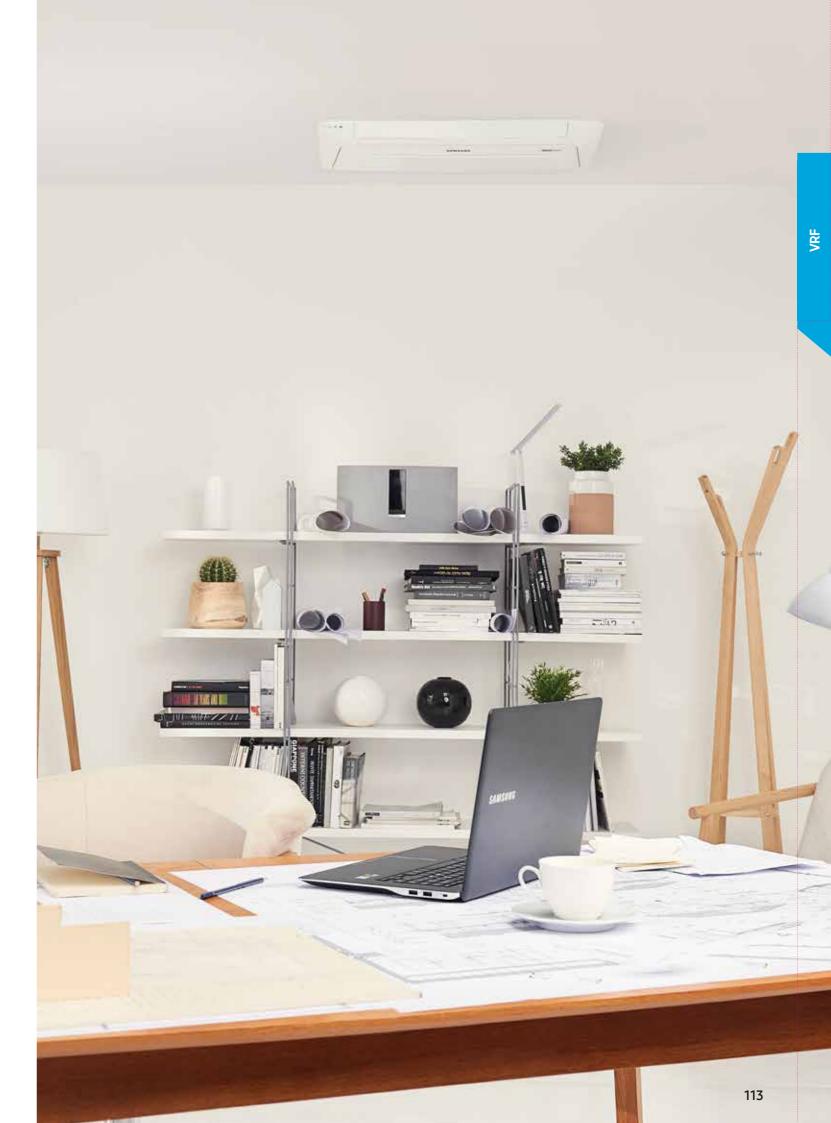


NO	Name	Description
1	Gas pipe connection	Ø12.7 (1/2")
2	Liquid pipe connection	Ø6.35 (1/4")
3	Drain hose connection	VP20 (OD26, ID20)
4	Power supply/Communication wiring conduit	-
5	Air outlet louver	-
6	Air inlet grille	-

WindFree™ 1-Way Cassette



NO	Name	Descr	iption
		5.2 kW	7.1 kW
1	Gas pipe connection	Ø12.70 (1/2*)	Ø15.88 (5/8")
2	Liquid pipe connection	Ø6.35 (1/4")	Ø9.52 (3/8")
3	Drain hose connection	VP25 (OI	D32, ID25)
4	Power supply/Communication wiring conduit		-
5	Air outlet louver		-
6	Air inlet grille		-



360 Cassette

- 360 degree air supply.
 Bladeless discharge. Booster fans can be individually controlled, allowing for completely horizontal flow discharge. Coandă effect is created even
- Built-in condensation drain pump.Predisposition of the air inlet to let fresh air in.
- Compatible with Wi-Fi Kit controller.
- Circular or square cassette panel.
 Motion Detector Sensor included.
- Optional Air Purification Panel, Auto Elevation Panel



	Model			AM045KN4DEH/EU	AM056KN4DEH/EU	AM071KN4DEH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	4.5	5.6	7.1
		Heating	kW	5.0	6.3	8.0
ower	Power Input (Nominal)	Cooling	W	26	30	34
		Heating	W	26	30	34
	Current Input (Nominal)	Cooling	Α	0.18	0.21	0.25
		Heating	Α	0.18	0.21	0.25
an	Motor	Туре	-	Turbo Fan	Turbo Fan	Turbo Fan
		Output x n	w	65 x 1	65 x 1	65 x 1
	Airflow Rate	H/M/L (UL)	m³/min	14.50/13.50/12.50	16.00/14.50/13.50	18.00/16.00/14.00
			l/s	241.67/225.00/208.33	266.67/241.67/225.00	300.00/266.67/233.33
iping Connections	Liquid Pipe		ø, mm	6.35	6.35	9.52
			ø, inch	1/4	1/4	3/8
	Gas Pipe		ø, mm	12.70	12.70	15.88
			ø, inch	1/2	1/2	5/8
	Drain Pipe		ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
ield Wiring	Power Source Wire		mm²	1.5-2.5	1.5-2.5	1.5-2.5
	Transmission Cable		mm²	0.75-1.50	0.75-1.50	0.75-1.50
efrigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2	088)
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
ound	Sound Pressure ¹	(H/M/L)	dB(A)	33/31/29	34/32/29	36/33/30
	Sound Power	Cooling	dB(A)	50	51	53
imension	Net Weight		kg	21.0	21.0	21.0
	Net Dimensions (W x H x D)		mm	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947
Panel	Model Name		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN

		Acces	sories		
0	100 mm	72 10 201 10 10 10 10 10 10 10	* *** **	-	
Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
AR-KH03E	MWR-SH00N	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA
Panel (Mandatory)	Panel (Mandatory)	Panel (Mandatory)	Panel (Mandatory)	Air Purification Panel (Optional)	Auto Elevation Panel (Optional)
PC4NUDMAN	PC4NUNMAN	PC4NBDMAN	PC4NBNMAN	PC6EUCMAN	PC6EUXMAN

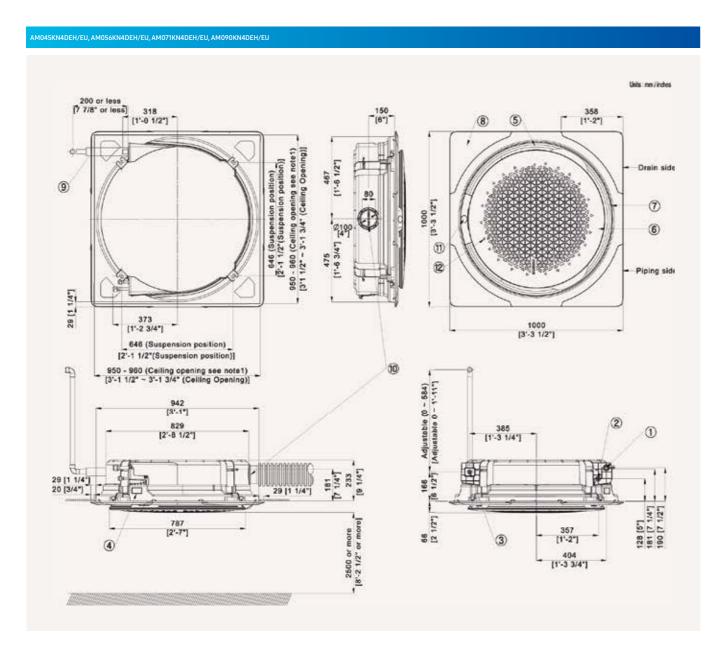
	The same of the sa
Motion Detect Sensor	SPi Kit
MCR-SME	MSD-CAN1

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.



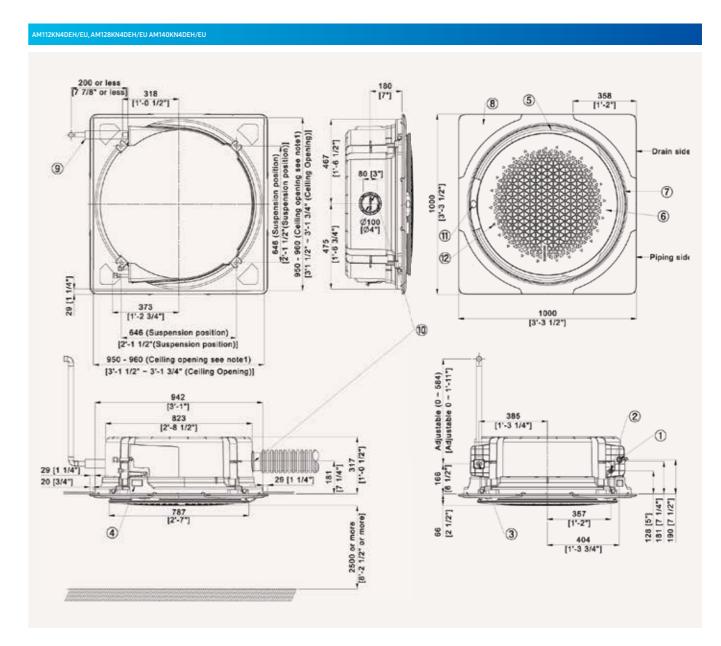
AM090KN4DEH/EU	AM112KN4DEH/EU	AM128KN4DEH/EU	AM140KN4DEH/EU
1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	10, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz
9.0	11.2	12.8	14.0
10.0	12.5	13.8	16.0
55	53	77	91
55	53	77	91
0.42	0.41	0.62	0.75
0.42	0.41	0.62	0.75
Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
65 x 1	97 x 1	97 x 1	97 x 1
22.00/18.50/16.00	25.50/21.00/17.50	29.50/24.00/19.00	31.50/26.50/21.00
366.67/308.33/266.67	425.00/350.00/291.67	491.67/400.00/316.67	525.00/441.67/350.00
9.52	9.52	9.52	9.52
3/8	3/8	3/8	3/8
15.88	15.88	15.88	15.88
5/8	5/8	5/8	5/8
VP25 (OD 32, ID 25)			
1.5-2.5	1.5-2.5	1.5-2.5	1.5-2.5
0.75-1.50	0.75-1.50	0.75-1.50	0.75-1.50
	R410A(Fluorinated gree	nhouse gas, GWP=2,088)	
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
40/36/32	40/36/32	42/38/33	44/40/35
57	58	60	61
21.0	24.0	24.0	24.0
947 x 281 x 947	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
PC4NUDMAN	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN

360 Cassette (square)



NO	Name
1	Refrigerant liquid pipe
2	Refrigerant gas pipe
3	Condensate drain
4	Power supply/communication wiring conduits
5	Air discharge opening
6	Air suction grille
7	Suction rim for booster fan
8	Corner decoration cover
9	Drain hose
10	Fresh air intake knock-out hole
11	Display window
12	Infrared receiver

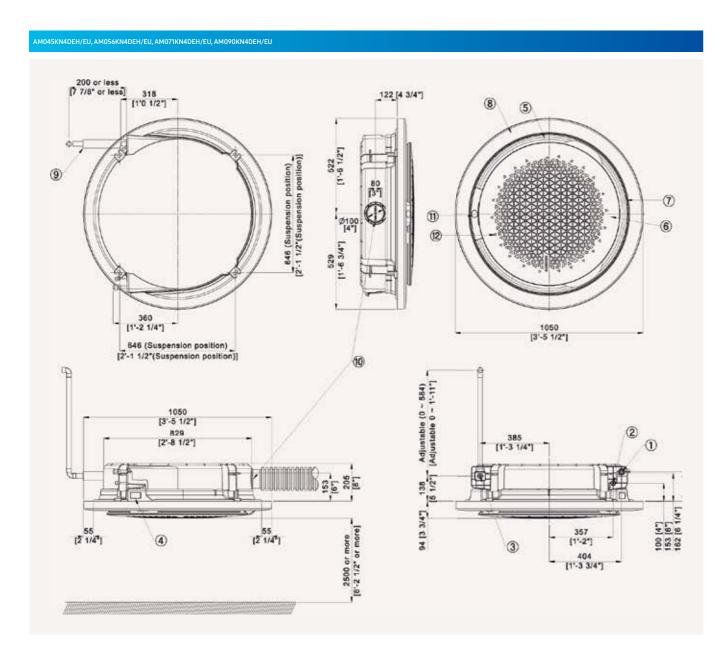
- 1. Make sure the spacing between the ceiling and the cassette is no more than 29 mm [11/4"]. Max ceiling opening: 960 mm [3'1 3/4"]
- 2. When the conditions exceed 30 °C and RH 80 % in the ceiling or fresh air inducted into the ceiling, additional insulation is required (polythene foam, thickness 10 mm [3/8"] or more)
- 3. Open type panel model code: PC4NUDMAN



NO	Name	
1	Refrigerant liquid pipe	
2	Refrigerant gas pipe	
3	Condensate drain	
4	Power supply/communication wiring conduits	
5	Air discharge opening	
6	Air suction grille	
7	Suction rim for booster fan	
8	Corner decoration cover	
9	Drain hose	
10	Fresh air intake knock-out hole	
11	Display window	
12	Infrared receiver	

- 1. Make sure the spacing between the ceiling and the cassette is no more than 29 mm [11/4"]. Max ceiling opening: 960 mm [3'13/4"]
- 2. When the conditions exceed 30 °C and RH 80 % in the ceiling or fresh air inducted into the ceiling, additional insulation is required (polythene foam, thickness 10 mm [3/8"] or more)
- 3. Open type panel model code: PC4NUDMAN

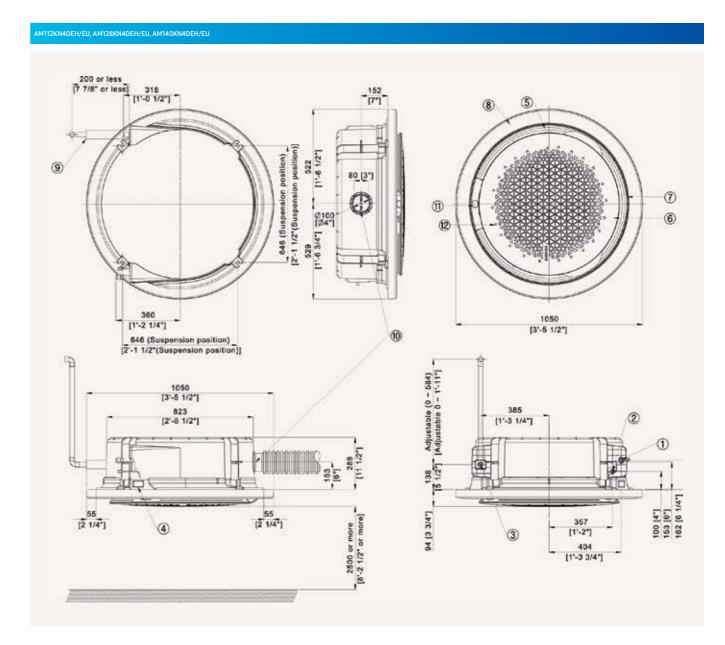
360 Cassette (circular)



NO	Name	
1	Refrigerant liquid pipe	
2	Refrigerant gas pipe	
3	Condensate drain	
4	Power supply/communication wiring conduits	
5	Air discharge opening	
6	Air suction grille	
7	Suction rim for booster fan	
8	Corner decoration cover	
9	Drain hose	
10	Fresh air intake knock-out hole	
11	Display window	
12	Infrared receiver	

Category	Inspection hole		
	Recessed i	nstallation	Exposed installation
	Integrated	Suspended	
Square Panel	1 ea		
Circle Panel	2 ea		-

- 1. Make sure the spacing between the ceiling and the cassette is no more than 10 mm [3/8"].
- 2. When the conditions exceed 30 °C and RH 80 % in the ceiling or fresh air inducted into the ceiling, additional insulation is required (polythene foam, thickness 10 mm (3/8") or more)
- 3. Open type panel model code: PC4NUNMAN $\,$
- 4. The circular panel is available by default in the exposed installation.
- 5. Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table. (An inspection hole must be at least 450 mm x 450 mm in size.)
- 6. A suspended ceiling structure can substitute for the inspection holes.



NO	Name		
1	Refrigerant liquid pipe		
2	Refrigerant gas pipe		
3	Condensate drain		
4	Power supply/communication wiring conduits		
5	Air discharge opening		
6	Air suction grille		
7	Suction rim for booster fan		
8	Corner decoration cover		
9	Drain hose		
10	Fresh air intake knock-out hole		
11	Display window		
12	Infrared receiver		

Category	Inspection hole				
	Recessed i	nstallation	Exposed installation		
	Integrated	Suspended			
Square Panel	1 ea				
Circle Panel	2 ea		-		

- 1. Make sure the spacing between the ceiling and the cassette is no more than 10 mm [3/8"].
- When the conditions exceed 30 °C and RH 80 % in the ceiling or fresh air inducted into the ceiling, additional insulation is required (polythene foam, thickness 10 mm [3/8"] or more)
- 3. Open type panel model code: PC4NUNMAN
- 4. The circular panel is available by default in the exposed installation.
- 5. Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table. (An inspection hole must be at least 450 mm x 450 mm in size.)
- 6. A suspended ceiling structure can substitute for the inspection holes.



LSP Duct (drain pump excluded)

- Two-position field adjustable air return, on the bottom or at the rear of the unit.
 Equipped with one Sirocco fan direct driven by a single motor.
 Long-life washable HD 40 permanent filter is included.
- Auto Restart function.Optional condensate drain pump.



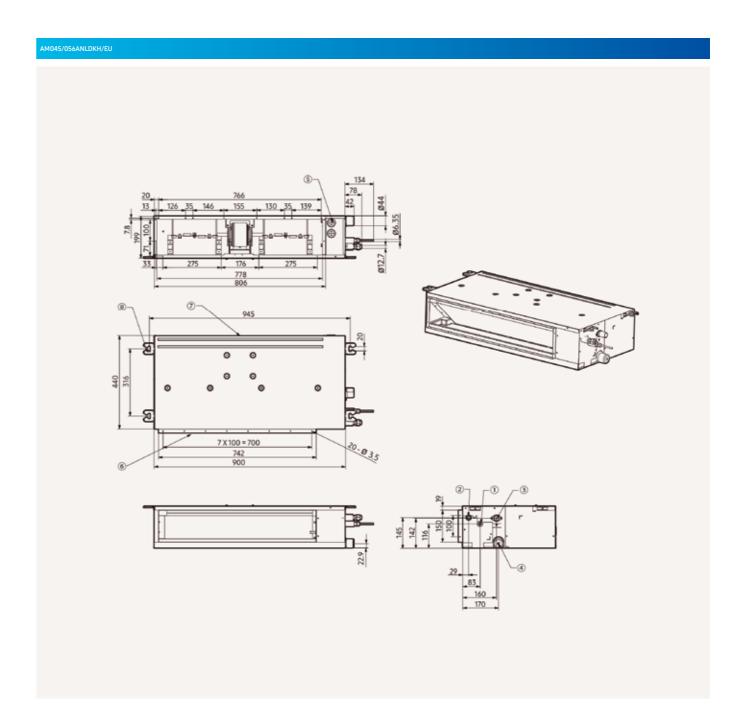
	Model			AM017ANLDKH/EU	AM022ANLDKH/EU	AM028ANLDKH/EU	AM036ANLDKH/EU
	Modet			AMUT/ANLDRH/EU	AMUZZANEDKH/EU	AMUZSANEDKH/EU	AMUSOANEDKH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220–240 V, 50/60 Нz	1Ф, 2, 220–240 V, 50/60 Нz	1Ф, 2, 220-240 V, 50/60 Нz
Performance	Capacity (Nominal)	Cooling	kW	1.7	2.2	2.8	3.6
		Heating	kW	1.9	2.5	3.2	4.0
Power	Power Input (Nominal)	Cooling	W	28	30	34	40
		Heating	W	28	30	36	42
	Current Input (Nominal)	Cooling	Α	0.23	0.25	0.28	0.33
		Heating	Α	0.23	0.25	0.30	0.35
Fan	Туре		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	69 x 1	69 x 1	69 x 1	69 x 1
	Airflow Rate H/M/L (UL)		m³/min	5.5 / 4.5 / 3.8	6.0 / 4.9 / 3.8	7.1 / 5.2 / 4.4	8.2 / 6.5 / 4.9
			l/s	91 / 74 / 63	100 / 82 / 63	118 / 86 / 73	137/108 / 82
	External Static Pressure	Min/Std/Max	mmAq	0.0 / 1.0 / 3.0	0.0 / 1.0 / 3.0	0.0 / 1.0 / 3.0	0.0 / 1.0 / 3.0
			Pa	0.00/9.81/29.42	0.00/9.81/29.42	0.00/9.81/29.42	0.00/9.81/29.42
Piping Connections	Liquid Pipe		ø, mm	6.35	6.35	6.35	6.35
			ø, inch	1/4	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.70	12.70	12.70	12.70
			ø, inch	1/2	1/2	1/2	1/2
	Drain Pipe		ø, mm	VP25 (OD 32, ID 25)			
Field Wiring	Power Source Wire	Below 20 m/over 20 m	mm²	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm²	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
Refrigerant	Туре		-		R410A(Fluorinated gree	nhouse gas, GWP=2,088)	
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure ¹	(H/M/L)	dB(A)	25 / 22 / 19	26 / 23 / 19	28 / 24 / 19	31 / 26 / 20
	Sound Power		dB(A)	40	42	44	46
Dimensions	Net Weight		kg	14.9	14.9	14.9	15.3
	Net Dimensions (W x H x D)		mm	700 x 199 x 440			
Air Filter			-	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter

AM045ANLDKH/EU	AM056ANLDKH/EU	AM071ANLDKH/EU	AM090ANLDKH/EU	AM112ANLDKH/EU	AM128ANLDKH/EU	AM140ANLDKH/EU
IФ, 2, 220–240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 H
4.5	5.6	7.1	9.0	11.2	12.8	14.0
5.0	6.3	8.0	10.0	12.5	13.8	16.0
51	73	82	170	170	200	220
46	68	77	170	170	200	220
0.45	0.62	0.69	0.96	0.96	1.28	1.43
0.41	0.58	0.65	0.96	0.96	1.28	1.43
Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
84 x 1	84 x 1	84 x 1	183 x 1	183 x 1	183 x 1	183 x 1
12.5 / 10.0 / 7.5	15.5 / 12.5 / 9.5	18.0 / 14.5 / 11.0	29.0 / 27.0 / 25.0	31.0 / 29.0 / 27.0	34.0 / 32.0 / 30.0	36.0 / 34.0 / 32.0
208/167/125	258/208/158	300/242/183	483/450/417	520/483/450	567/533/500	600/567/533
0.0 / 2.0 / 4.0	0.0 / 2.0 / 4.0	0.0 / 2.0 / 4.0	0.0 / 3.0 / 6.0	0.0 / 3.0 / 6.0	0.0 / 3.0 / 6.0	0.0 / 3.0 / 6.0
0.00/19.61/39.23	0.00/19.61/39.23	0.00/19.61/39.23	0.00/29.42/58.84	0.00/29.42/58.84	0.00/29.42/58.84	0.00/29.42/58.84
6.35	6.35	9.52	9.52	9.52	9.52	9.52
1/4	1/4	3/8	3/8	3/8	3/8	3/8
12.70	12.70	15.88	15.88	15.88	15.88	15.88
1/2	1/2	5/8	5/8	5/8	5/8	5/8
VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)			
1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
		R410A(I	Fluorinated greenhouse gas, GWF	P=2,088)		
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
32 / 28 / 25	34 / 30 / 26	34 / 30 / 27	37 / 36 / 34	37 / 36 / 34	37 / 36 / 34	39 / 38 / 36
47	49	49	66	66	66	68
18.8	18.8	22.0	40.0	40.0	41.5	41.5
700 x 199 x 440	900 x 199 x 440	1,100 x 199 x 440	1,300 x 295 x 690	1,300 x 295 x 690	1,300 x 295 x 690	1,300 x 295 x 690
Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter

9 mg	888 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* 🔆 🍖	-	***************************************	Manag
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA

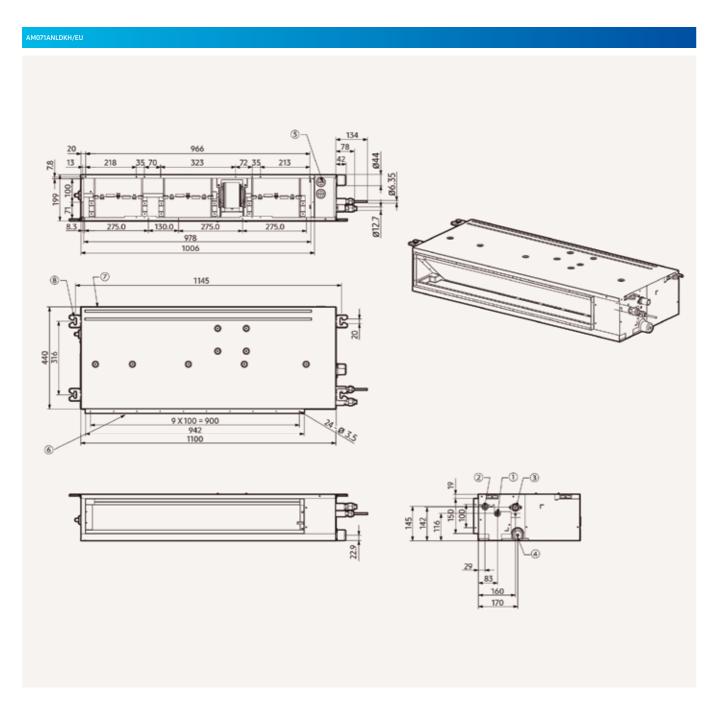
Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

NO	Name	Description
1	Refrigerant Liquid Pipe	Ø6.35 [1/4"]
2	Refrigerant Gas Pipe	Φ12.70 [1/2"]
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connectino with drain pump	VP25 (OD 32, ID 25)
5	Power supply / Communication connection	-
6	Air discharge grille flange	-
7	Return air side	-
8	Hook	ø9.52 or M10

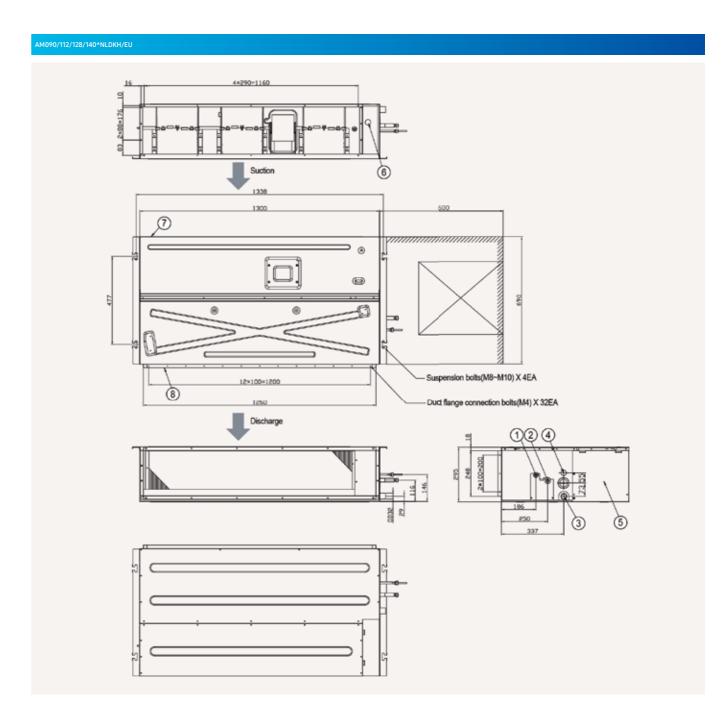


NO	Name	Description
1	Refrigerant Liquid Pipe	Ø6.35 [1/4"] Flare Connection
2	Refrigerant Gas Pipe	Φ12.70 [1/2"] Flare Connection
3	Condensate Drain	VP25 (OD 32, ID 25)
4	Condensate Drain (Option)	VP25 (OD 32, ID 25)
5	Power & Comm. Wiring Conduits	-
6	Supply Air Flange	-
7	Return Air Flange	-
8	Hook	-

LSP Duct (drain pump excluded)



NO	Name	Description
1	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
2	Refrigerant Gas Pipe	Φ15.88 [5/8"] Flare Connection
3	Condensate Drain	VP25 (OD 32, ID 25)
4	Condensate Drain (Option)	VP25 (OD 32, ID 25)
5	Power & Comm. Wiring Conduits	-
6	Supply Air Flange	-
7	Return Air Flange	-
8	Hook	-



NO	Name	Description
1	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
2	Refrigerant Gas Pipe	Φ15.88 [5/8"] Flare Connection
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connectino with drain pump	VP25 (OD 32, ID 25)
5	Control unit	-
6	Conduit for power supply & communication wiring	-
7	Return air side	-
8	Air outlet duct flange	-

LSP Duct (drain pump included)

- Two-position field adjustable air return,
- on the bottom or at the rear of the unit.

 Equipped with one Sirocco fan direct driven by a single motor.
- Long-life washable HD 40 permanent filter is included.
- Auto Restart function.
- Automatic ESP settingBuilt-in condensation drain pump.



	Mo	odel		AM017KNLDEH/EU	AM022KNLDEH/EU	AM028KNLDEH/EU	AM036KNLDEH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	1.7	2.2	2.8	3.6
		Heating	kW	1.9	2.5	3.2	4.0
Power	Power Input (Nominal)	Cooling	W	28	30	34	40
		Heating	W	28	30	36	42
	Current Input (Nominal)	Cooling	A	0.23	0.25	0.28	0.33
		Heating	A	0.23	0.25	0.30	0.35
Fan	Туре		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	69 x 1	69 x 1	69 x 1	69 x 1
	Airflow Rate	H/M/L (UL)	m³/min	5.45/4.45/3.80	6.00/4.90/3.80	7.05/5.15/4.35	8.20/6.50/4.90
			l/s	90.83/74.17/63.33	100.00/81.67/63.33	117.50/85.83/72.50	136.67/108.33/81.67
	External Static Pressure	Min/Std/Max	mmAq	0.00/1.00/3.00	0.00/1.00/3.00	0.00/1.00/3.00	0.00/1.00/3.00
			Pa	0.00/9.81/29.42	0.00/9.81/29.42	0.00/9.81/29.42	0.00/9.81/29.42
Piping	Liquid Pipe		ø, mm	6.35	6.35	6.35	6.35
Connections			ø, inch	1/4	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.70	12.70	12.70	12.70
			ø, inch	1/2	1/2	1/2	1/2
	Drain Pipe		ø, mm	VP25 (OD 32, ID 25)			
Field Wiring	Power Source Wire		mm²	1.5~2.5	1.5~2.5	1.5~2.5	1.5~2.5
	Transmission Cable		mm²	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
Refrigerant	Туре		-		R410A(Fluorinated green	nhouse gas, GWP=2,088)	
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure ¹	(H/M/L)	dB(A)	25/22/19	26/23/19	28/24/19	31/26/20
	Sound Power	Cooling	dB(A)	40	42	44	46
Dimensions	Net Weight		kg	15.3	15.3	15.3	15.7
	Net Dimensions (W × H × D)		mm	700 x 199 x 440			
Air Filter			-	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter
Additional	Drain Pump		-	Included	Included	Included	Included
Accessories	Max. Lifting Height/Displacement		mm / litres/h	750/24	750/24	750/24	750/24

		Access	ories		
399 147	201-201 201-44 21-5-21 21-21 2	0 (4) 1	:	0	
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment.



AM045MNLDEH/EU

1Ф, 2, 220–240 V, 50 Hz

4.5

5.0

0.45

0.41

Sirocco Fan

84 x 1

12.50/10.00/7.50

208.33/166.67/125.00

0.00/2.00/4.00

0.00/19.61/39.23

12.70

1/2

VP25 (OD 32, ID 25)

1.5~2.5

0.75~1.50

EEV INCLUDED

32 / 28 / 25

18.9

900 x 199 x 440

Long-life Filter

750/24

AM056MNLDEH/EU

1Ф, 2, 220-240 V, 50 Hz

5.6

6.3

73

68

0.62

0.58

Sirocco Fan

84 x 1

15.50/12.50/9.50

258.33/208.33/158.33

0.00/2.00/4.00

0.00/19.61/39.23

12.70

1/2

VP25 (OD 32, ID 25)

1.5~2.5

0.75~1.50

EEV INCLUDED

18.9

900 x 199 x 440

Long-life Filter

750/24

AM071MNLDEH/EU

1Ф, 2, 220-240 V, 50 Hz

8.0

0.69

Sirocco Fan

84 x 1

18.00/14.50/11.00

300.00/241.67/183.33

0.00/2.00/4.00

0.00/19.61/39.23

15.88

5/8

VP25 (OD 32, ID 25)

1.5~2.5

0.75~1.50

EEV INCLUDED

53

22.3

1100 x 199 x 440

Long-life Filter

750/24

AM090MNLDKH/EU

1,2,220-240,50/60

10.0

170

0.96

Sirocco Fan

183 x 1

29.00/27.00/25.00

483.33/450.00/416.67

0.00/29.42/58.84

15.88

5/8

VP25 (OD 32, ID 25)

1.5~2.5

0.75~1.50

EEV INCLUDED

66

40.5

1,300 x 295 x 690

Long-life Filter

750/24

AM112MNLDKH/EU

1,2,220-240,50/60

11.2

12.5

170

0.96

0.96

Sirocco Fan

183 x 1

31.20/29.00/27.00

520.00/483.33/450.00

0.00/3.00/6.00

0.00/29.42/58.84

9.52

15.88

5/8

VP25 (OD 32, ID 25)

1.5~2.5

EEV INCLUDED

37/36/34

66

40.5

1,300 x 295 x 690

Long-life Filter

750/24

AM128MNLDKH/EU

1,2,220-240,50/60

12.8

13.8

200

1.28

Sirocco Fan

183 x 1

34.00/32.00/30.00

567.00/533.00/500.00

0.00/29.42/58.84

15.88

5/8

VP25 (OD 32, ID 25)

1.5~2.5

0.75~1.50

EEV INCLUDED

37 / 36 / 34

42.0

1,300 x 295 x 690

Long-life Filter

750/24

AM140MNLDKH/EU

1,2,220-240,50/60

14.0

16.0

220

1.43

1.43

Sirocco Fan

183 x 1

36.00/34.00/32.00

600.00/566.67/533.33

0.00/3.00/6.00

0.00/29.42/58.84

9.52

15.88

5/8

VP25 (OD 32, ID 25)

1.5~2.5

0.75~1.50

EEV INCLUDED

68

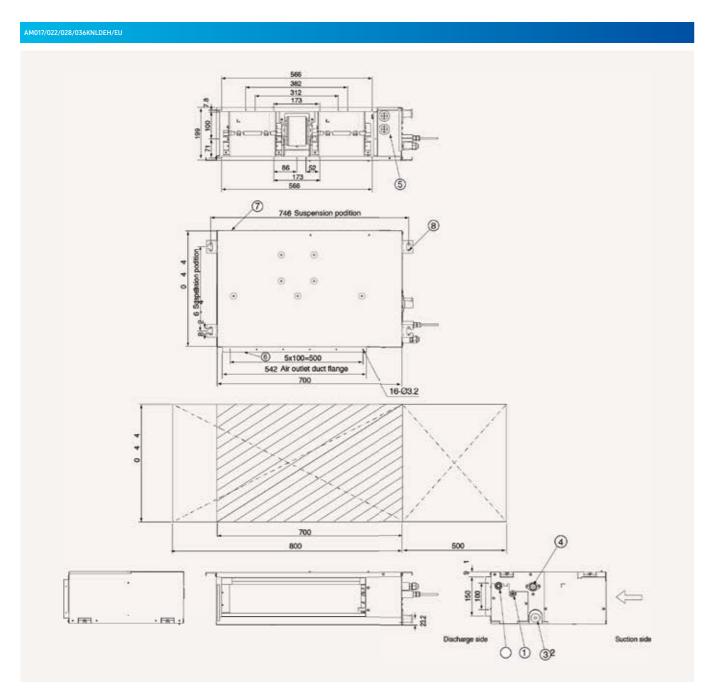
42.0

1,300 x 295 x 690

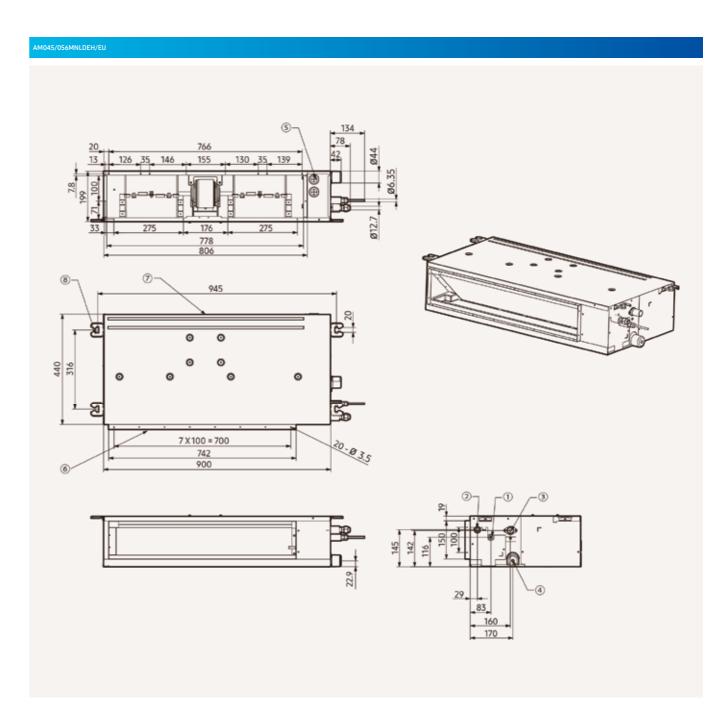
Long-life Filter

750/24

LSP Duct (drain pump included)

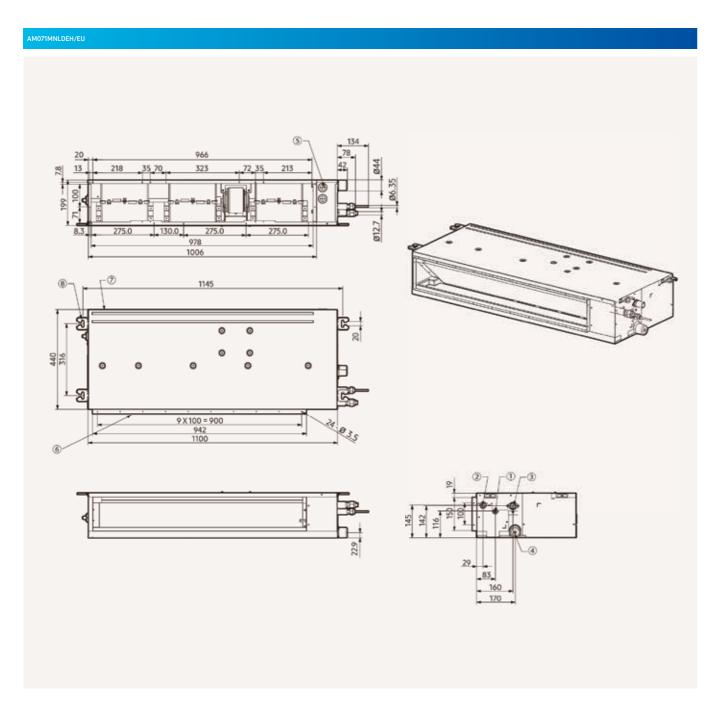


NO	Name	Description
1	Liquid pipe connection	ø6.35 Flare
2	Gas pipe connection	ø12.70 Flare
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
5	Power supply/communication wiring conduits	
6	Air discharge grille flange	
7	Return air side	
8	Hook	ø9.52 or M10

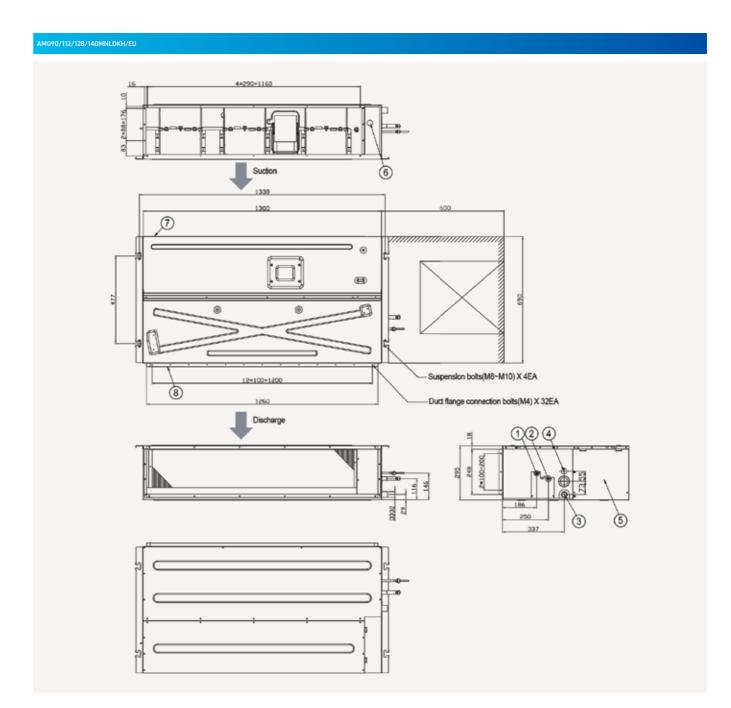


NO	Name	Description
1	Refrigerant Liquid Pipe	Ø6.35 [1/4"] Flare Connection
2	Refrigerant Gas Pipe	Φ12.70 [1/2"] Flare Connection
3	Condensate Drain	VP25 (OD 32, ID 25)
4	Condensate Drain (Option)	VP25 (OD 32, ID 25)
5	Power & Comm. Wiring Conduits	-
6	Supply Air Flange	-
7	Return Air Flange	-
8	Hook	-

LSP Duct (drain pump included)



NO	Name	Description
1	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
2	Refrigerant Gas Pipe	Φ15.88 [5/8"] Flare Connection
3	Condensate Drain	VP25 (OD 32, ID 25)
4	Condensate Drain (Option)	VP25 (OD 32, ID 25)
5	Power & Comm. Wiring Conduits	-
6	Supply Air Flange	-
7	Return Air Flange	-
8	Hook	-



NO	Name	Description
1	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
2	Refrigerant Gas Pipe	Φ15.88 [5/8"] Flare Connection
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connectino with drain pump	VP25 (OD 32, ID 25)
5	Control unit	-
6	Conduit for power supply & communication wiring	-
7	Return air side	-
8	Air outlet duct flange	-

MSP Duct (drain pump included)

- Two-position field adjustable air return, on the bottom or
- at the rear of the unit.

 Equipped with one Sirocco fan direct driven by a single motor.
- Long-life washable permanent filter is included.
- Auto Restart function.

- Automatic ESP setting.Built-in condensation drain pump.Optional SPi Kit.

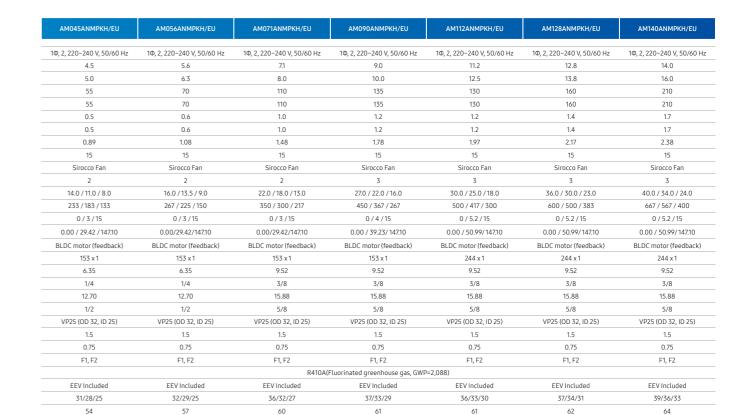






	Model			AM022ANMPKH/EU	AM028ANMPKH/EU	AM036ANMPKH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz
Performance	Capacity (Nominal)	Cooling	kW	2.2	2.8	3.6
		Heating	kW	2.5	3.2	4.0
Power	Power Input (Nominal)	Cooling	W	42	42	45
		Heating	W	42	42	45
	Current Input (Nominal)	Cooling	Α	0.4	0.4	0.4
		Heating	A	0.4	0.4	0.4
	Current	MCA	A	0.67	0.67	0.81
		MFA/MOP	Α	15	15	15
an	Туре		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Number of Fans		ea	2	2	2
	Airflow Rate	H/M/L (UL)	m³/min	10.5 / 9.0 / 7.0	10.5 / 9.0 / 7.0	12.0 / 9.5 / 7.5
			l/s	170 / 150 / 115	170 / 150 / 115	200 / 158 / 125
	External Pressure	Min/Std/Max	mmAq	0 / 2.5 / 15	0 / 2.5 / 15	0 / 2.5 / 15
			Pa	0.00 / 24.52 / 147.10	0.00 / 24.52 / 147.10	0.00 / 24.52 / 147.10
an Motor	Model		-	BLDC motor (feedback)	BLDC motor (feedback)	BLDC motor (feedback)
	Output x n		W	153 x 1	153 x 1	153 x 1
iping Connections	Liquid Pipe		ø, mm	6.35	6.35	6.35
			ø, inch	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.70	12.70	12.70
			ø, inch	1/2	1/2	1/2
	Drain Pipe		ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
iring Connections	For power supply	Minimum	mm²	1.5	1.5	1.5
	Connection with Indoor	Minimum	mm²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
efrigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2	088)
	Control Method		-	EEV Included	EEV Included	EEV Included
ound	Sound Pressure ¹	(H/M/L)	dB(A)	28/26/24	28/26/24	30/27/24
	Sound Power	Cooling (Nominal)	dB(A)	50	51	53
imensions	Net Weight		kg	27.9	27.9	27.5
	Net Dimensions (W × H × D)		mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700
ir Filter	Туре		-	Long life filter	Long life filter	Long life filter
Additional	Drain Pump		Model	INCLUDED	INCLUDED	INCLUDED
Accessories		Max. Lifting Height	mm	750	750	750

Accessories							
860 125	20-700 201-404 20-1-21 20-1-21 20-1-21 20-1-21	1 -	0		1		
Wireless Remote Controller	Touch Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor	SPi Kit		
AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MIM-H04EN	AR-EH03E (to be matched with MRK-A10N)	MRW-TA	MSD-EAN1		



35.0

1,200 x 250 x 700

Long life filter

INCLUDED

750

39.5

1,300 x 300 x 700

Long life filter

INCLUDED

750

39.5

1,300 x 300 x 700

Long life filter

39.5

1,300 x 300 x 700

Long life filter

INCLUDED

750

135 134

27.5

850 x 250 x 700

Long life filter

INCLUDED

750

27.5

850 x 250 x 700

Long life filter

INCLUDED

27.5

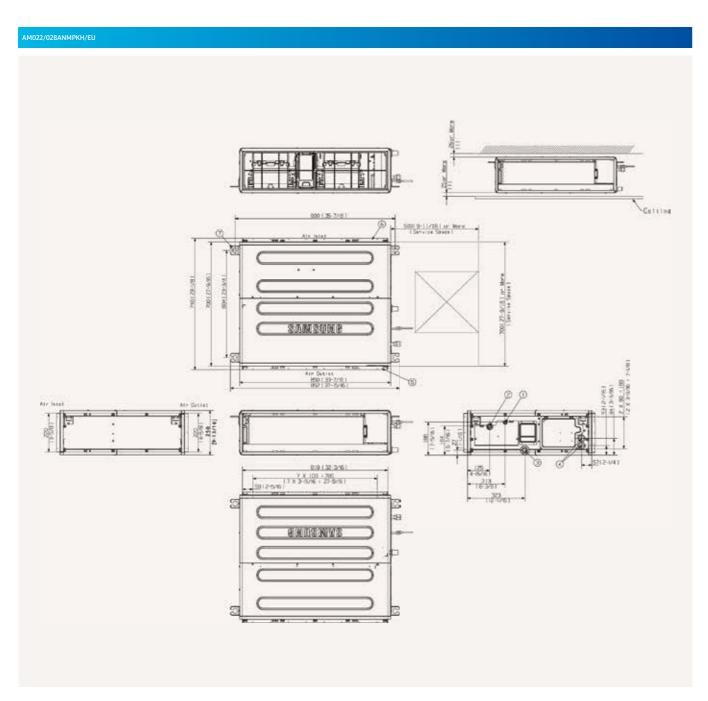
850 x 250 x 700

Long life filter

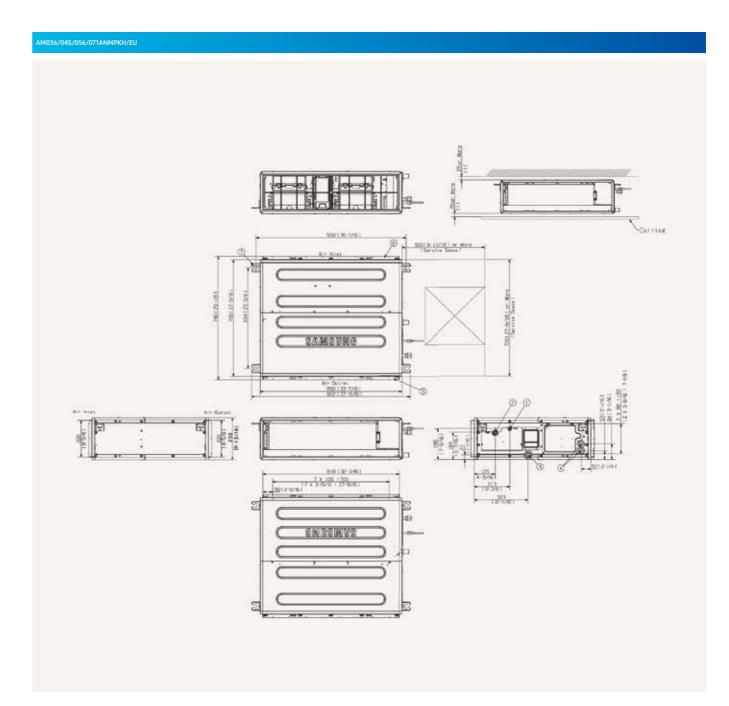
INCLUDED

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

MSP Duct (drain pump included)

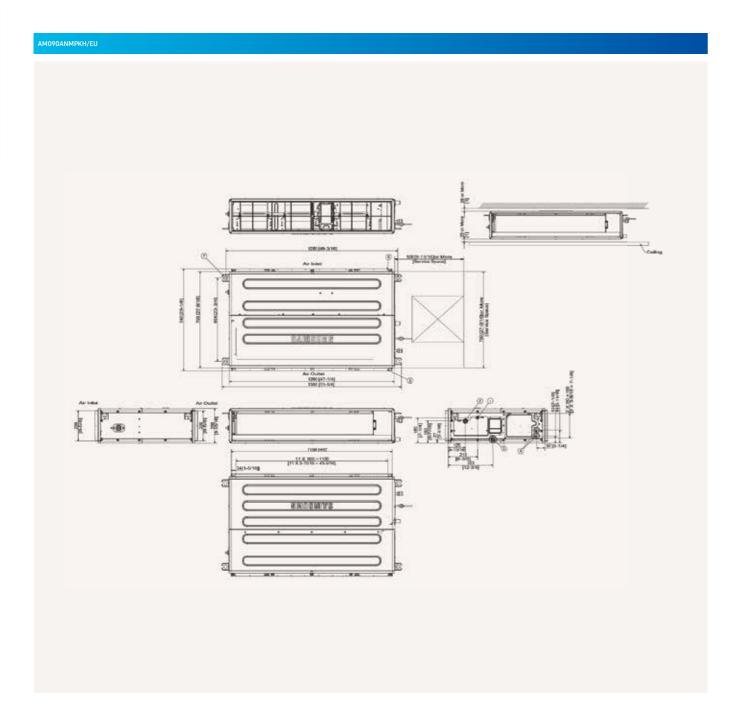


NO	Name	Description
1	Liquid pipe connection	ø6.35 Flare
2	Gas pipe connection	ø12.70 Flare
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
5	Control unit	
6	Power supply/communication wiring conduits	
7	Return air side	
8	Air outlet duct flange	

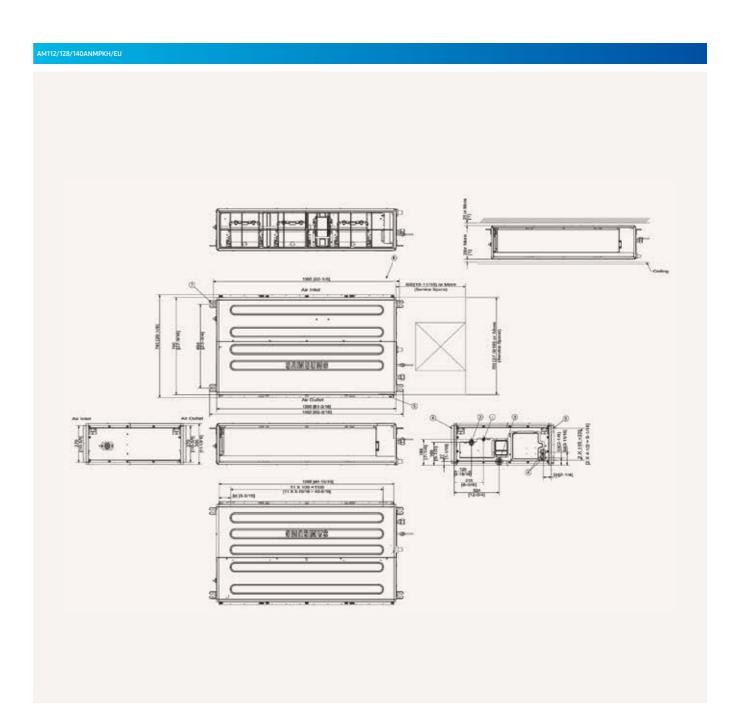


NO	Name	Descri	iption
		AM036/045/056ANMPKH/EU	AM071ANMPKH/EU
1	Refrigerant Liquid Pipe	ø6.35 Flare	ø9.52 Flare
2	Refrigerant Gas Pipe	ø12.70 Flare	ø15.88 Flare
3	Condensate Drain	VP25 (OD	32, ID 25)
4	Power & Comm. Wiring Conduits	-	
5	Supply Air Flange	-	-
6	Return Air Flange	-	
7	Hook	-	-

MSP Duct



NO	Name	Description
1	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
2	Refrigerant Gas Pipe	Φ15.88 [5/8"] Flare Connection
3	Condensate Drain	VP25 (OD 32, ID 25)
4	Power & Comm. Wiring Conduits	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-



NO	Name	Description
1	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
2	Refrigerant Gas Pipe	Φ15.88 [5/8"] Flare Connection
3	Condensate Drain	VP25 (OD 32, ID 25)
4	Power & Comm. Wiring Conduits	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-

HSP Duct

- Two-position field adjustable air return, on the bottom or at the rear of the unit.
 Equipped with two Sirocco fans direct driven by a single motor.
 Auto Restart function.
 Auto ESP setting (model-specific).

- Long-life HD 40 permanent filter is included (model-specific).
 Optional SPi kit (model-specific).







	Model			AM056ANHPKH/EU	AM071ANHPKH/EU	AM090ANHPKH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz
Performance	Capacity (Nominal)	Cooling	kW	5.6	7.1	9.0
		Heating	kW	6.3	8.0	10.0
Power	Power Input (Nominal)	Cooling	W	70.0	120.0	145.0
		Heating	W	70.0	120.0	145.0
	Current Input (Nominal)	Cooling	Α	0.70	1.00	1.20
		Heating	Α	0.70	1.00	1.20
	Current Input (Nominal)	MCA	Α	1.37	1.62	2.05
		MFA/MOP	Α	15	15	15
Fan	Туре		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Number of Fans		ea	3	3	3
	Airflow Rate	H/M/L (UL)	m³/min	18.00/16.00/14.00	22.00/19.00/16.00	29.00/25.00/22.00
			l/s	300.00 / 267.00 /233.00	367.00 / 317.00 / 267.00	483.00 / 417.00 / 367.00
	External Static Pressure	Min/Std/Max	mmAq	0 / 3.00 / 20.00	0 / 3.00 / 20.00	0 / 3.00 / 20.00
			Pa	0 / 29.42 / 196.13	0 / 29.42 / 196.13	0 / 29.42 / 196.13
Fan Motor	Model		-	BLDC motor	BLDC motor	BLDC motor
	Output x n		W	153 x 1	153 x 1	153 x 1
	Liquid Pipe		ø, mm	6.35	9.52	9.52
			ø, inch	1/4"	3/8"	3/8"
	Gas Pipe		ø, mm	12.7	15.88	15.88
			ø, inch	1/2"	5/8"	5/8"
	Drain Pipe		ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire	Below 20 m/ over 20 m	mm²	1.5	1.5	1.5
	Transmission Cable	Transmission Cable	mm²	0.75	0.75	0.75
		Remark	-	F1,F2	F1,F2	F1,F2
Refrigerant	Туре		-	R410.	A(Fluorinated greenhouse gas, GWP=2	,088)
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure ¹	(H/M/L)	dB(A)	31/28/25	32/29/26	34/31/28
	Sound Power	Cooling	dB(A)	58	58	60
Dimensions	Net Weight		kg	35.4	35.4	35.4
	Net Dimensions (W x H x D)		mm	1,200x250x700	1,200x250x700	1,200x250x700
AirFilter			-	Long-life Filter	Long-life Filter	Long-life Filter
Additional	Drain Pump	Internal	-	INCLUDED	INCLUDED	INCLUDED
Accessories		External	-	-	-	-
		Max. Lifting Height/ Displacement	mm / litres/h	750/24	750/24	750/24

_	_	_	_	_	
				-	
	_	_		_	









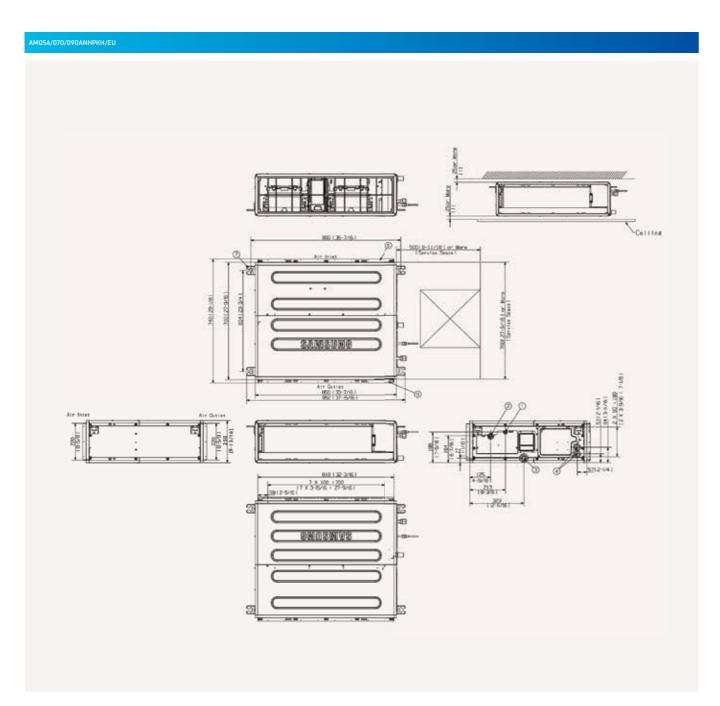


AM112ANHPKH/EU	AM128ANHPKH/EU	AM140ANHPKH/EU	AM180JNHFKH/EU	AM220FNHDEH/EU	AM280FNHDEH/EU	
10, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220–240 V, 50/60 Hz	1Ф, 2, 220–240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	
11.2	12.8	14.0	18.0	22.4	28.0	
12.5	13.8	16.0	20.0	25.0	31.5	
130	185	220	340	530	790	
130	185	220	340	530	790	
1.20	1.30	1.50	1.90	3.80	5.90	
1.20	1.30	1.50	1.90	3.80	5.90	
2.41	2.96	3.23	-	-	-	
15	15	15	-	-	-	
Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	
3	3	3	1	1	1	
32.0 / 26.0 / 20.0	37.0 / 30.0 / 22.0	41.0 / 34.0 / 25.0	58.0 / 50.0 / 43.0	58.0 / 52.0 / 47.0	72.0 / 65.0 / 58.0	
533.00 / 433.00 / 333.00	617.00 / 500.00 / 367.00	683.00 / 567.00 / 417.00	966.67/833.33/716.67	966.67/866.67/783.33	3.33 1,200.00/1,083.33/966.67	
3.00 / 6.20 / 20.00	3.00 / 6.20 / 20.00	3.00 / 6.20 / 20.00	5.00/7.34/20.00	5.00/15.00/25.00	5.00/15.00/28.00	
29.42 / 60.80 / 196.13	29.42 / 60.80 / 196.13	29.42 / 60.80 / 196.13	49.00/71.93/196.00	49.03/147.10/245.17	49.03/147.10/274.59	
BLDC motor	BLDC motor	BLDC motor	-	-	-	
350 x 1	350 x1	350 x 1	630 x 1	400 x 1	400 x 1	
9.52	9.52	9.52	9.52	9.52	9.52	
3/8"	3/8"	3/8"	3/8	3/8	3/8	
15.88	15.88	15.88	19.05	19.05	22.23	
5/8"	5/8"	5/8"	3/4	3/4	3/4	
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)	
1.5	1.5	1.5	1.5/2.5	1.5/2.5 1.5/2.5		
0.75	0.75	0.75	0.75~1.50	0.75~1.50	0.75~1.50	
F1,F2	F1,F2	F1,F2	F1,F2	F1,F2	F1,F2	
		R410A(Fluorinated green	house gas, GWP=2,088)			
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	
36/33/30	39/36/33	42/38/34	43/39/35	45/43/41	48/46/43	
61	64	65				
44.5	44.5	44.5	82.5	89.0	89.0	
1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700	1,350 x 450 x 910	1,240 x 470 x 1,040	1,240 x 470 x 1,040	
Long-life Filter	Long-life Filter	Long-life Filter	-	-	-	
INCLUDED	INCLUDED	INCLUDED	MDP-G075SP	MDP-N047SNC1D	MDP-N047SNC1D	
-	-	-	MDP-G075SQ	-	-	
750/24	750/24	750/24		750/24	750/24	

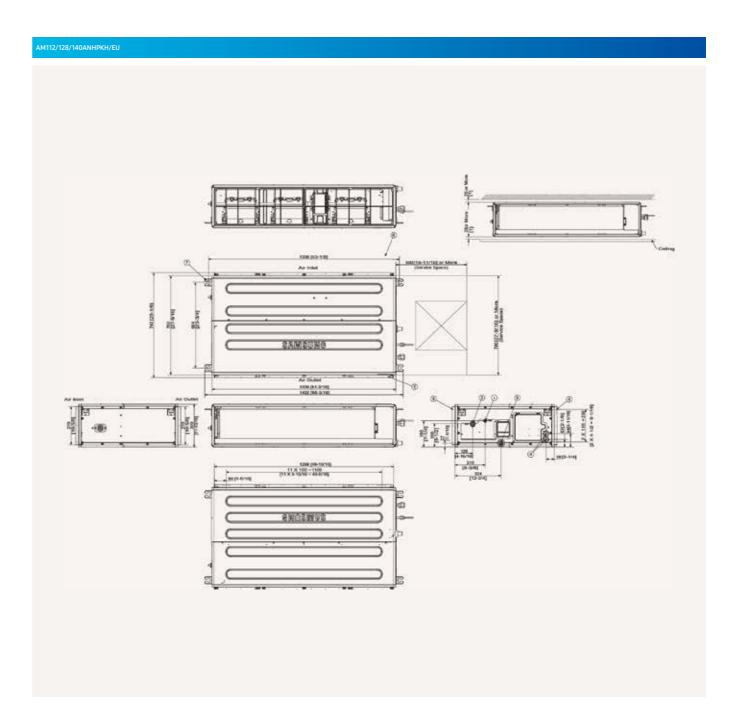
				Accessories				
	本	890	21-7-10 21-7-10 21-2-10 21-10	* 10 2	1 -	0	T.	
Drain Pump (optional)	Drain Pump (optional)	Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor	SPi Kit
MDP-G075SP/Q	MDP-N0475NC1D	AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA	MSD-EAN1

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

HSP Duct

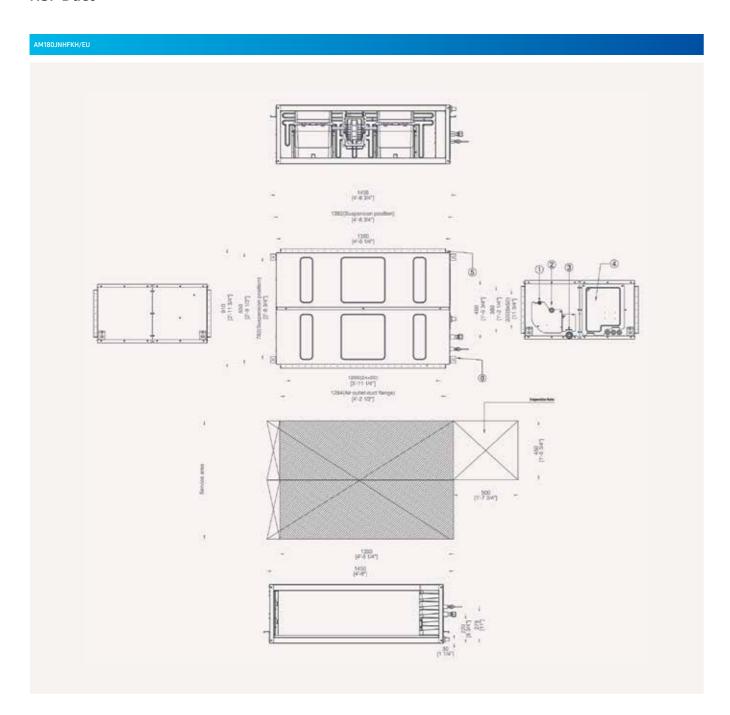


NO	Name	Description
1	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
2	Refrigerant Gas Pipe	Φ15.88 [5/8"] Flare Connection
3	Condensate Drain	VP25 (OD 32, ID 25)
4	Power & Comm. Wiring Conduits	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-
8	Hook	3/8 or M10



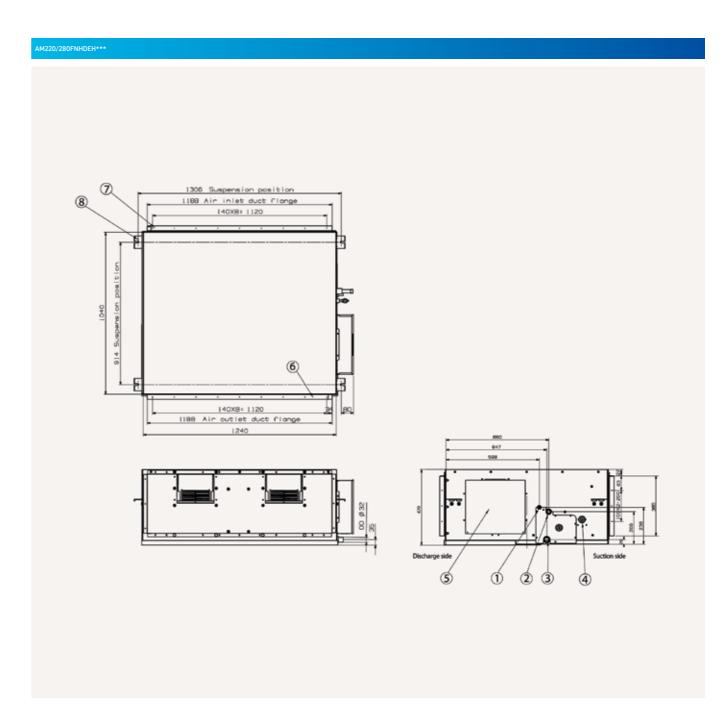
NO	Name	Description
1	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
2	Refrigerant Gas Pipe	Φ15.88 [5/8"] Flare Connection
3	Condensate Drain	VP25 (OD 32, ID 25)
4	Power & Comm. Wiring Conduits	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-
8	Hook	3/8 or M10

HSP Duct



Dimensional drawings

NO	Name					
1	Liquid pipe connection					
2	Gas pipe connection					
3	Drain pipe connection					
4	Power supply connetion					
5	Air discharge flange					
6	Hook					



NO	Name	Description
1	Liquid pipe connection	ø9.52 (3/8)
2	Gas pipe connection	AM220***: ø19.05 (3/4), AM280***: ø22.22 (7/8)
3	Drain pipe connection	VP25 (OD 32, ID 25)
4	Power supply connetion	VP25 (OD 32, ID 25)
5	Air discharge flange	
6	Hook	
7	Suction flange	
8	Hook	3/8 or M10

Console

- SPi Kit for air purification included as standard.
 Slim design: only 199 mm in width.
 Turbo fan with single-phase inverter motor.
 Two separate air outlets to avoid stratification.
- Long-life washable permanent filter.
- Compatible with Wi-Fi Kit controller.
 Auto Restart function.









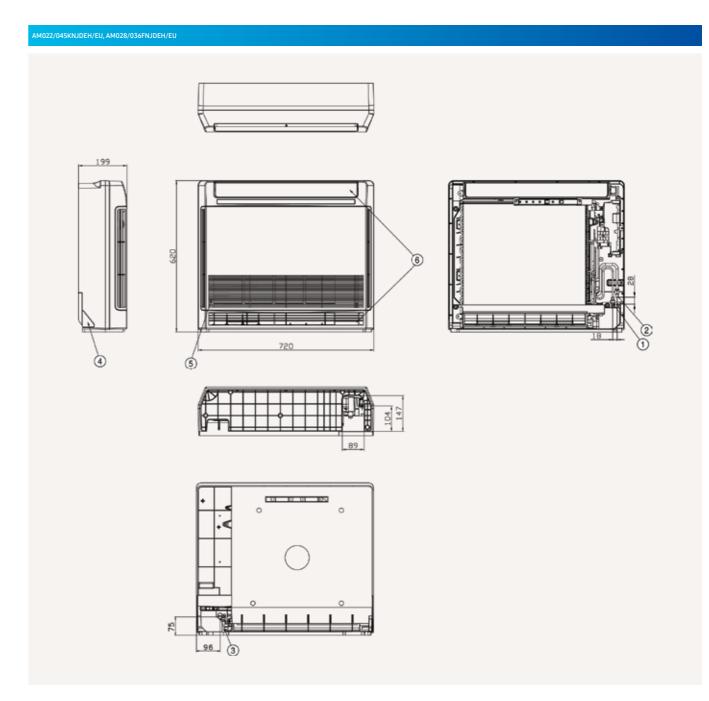


	Model			AM028FNJDEH/EU	AM028FNJDEH/EU	AM036FNJDEH/EU	AM045KNJDEH/EU	AM056FNJDEH/EU
Power Supply			Ф, #, V, Hz	1Φ, 2, 220~240 V, 50 Hz	1ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
Performance	Capacity	Cooling	kW	2.8	2.8	3.6	4.5	5.6
	(Nominal)	Heating	kW	3.2	3.2	4	5	6.3
Power	Power Input	Cooling	W	30	30	35	36	62
	(Nominal)	Heating	W	30	30	35	36	62
	Current Input	Cooling	A	0.25	0.25	0.29	0.30	0.49
	(Nominal)	Heating	A	0.25	0.25	0.29	0.30	0.49
Fan	Motor	Туре	-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
		Output x n	w	37	37	37	37 x 1	37
		Number of Fans	ea	1	1	1	-	1
	Airflow Rate	H/M/L (UL)	m³/min	7.00/6.00/5.00	7.00/6.00/5.00	8.50/7.50/6.50	11.30/9.80/8.20	13.00/11.50/10.00
			l/s	116.67/100.00/83.33	116.67/100.00/83.33	141.67/125.00/108.33	188.33/163.33/136.67	216.67/191.67/166.67
Piping Connections	Liquid Pipe		ø, mm	6.35	6.35	6.35	6.35	6.35
			ø, inch	1/4	1/4	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.7	12.7	12.7	12.7	12.7
			ø, inch	1/2	1/2	1/2	1/2	1/2
	Drain Pipe		ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Win	·e	mm²	1.5/2.5	1.5/2.5	1.5/2.5	1.5-2.5	1.5/2.5
	Transmission Cab	ole	mm²	0.75~1.50	0.75~1.50	0.75~1.50	0.75-1.50	0.75~1.50
Refrigerant	Туре		-		R410A(Fl	uorinated greenhouse gas, GW	P=2,088)	
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Pressure ¹	(H/M/L)	dB(A)	38/36/34	38/36/34	39/37/34	42/39/36	43/40/37
	Power	Cooling	dB(A)	58	58	59	63	64
Dimensions	Net Weight		kg	16.0	16.0	16.0	16.0	16.0
	Net Dimensions ((W x H x D)	mm	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199
Air Filter			-	Long-life Filter	Long-life Filter	Long-life Filter	-	Long-life Filter

			Accessories			
200 - 100 年 201 - 100 年 201 - 100 年 201 - 100 年 東京会社	D < 2 > 10	1 —		_0	4	
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	EEV Kit 1 Indoor	EEV Kit 2 Indoor	EEV Kit 3 Indoor
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA	MEV-**SA	MXD-E24/32K***A	MXD-E24/32K***A

Dimensional drawings

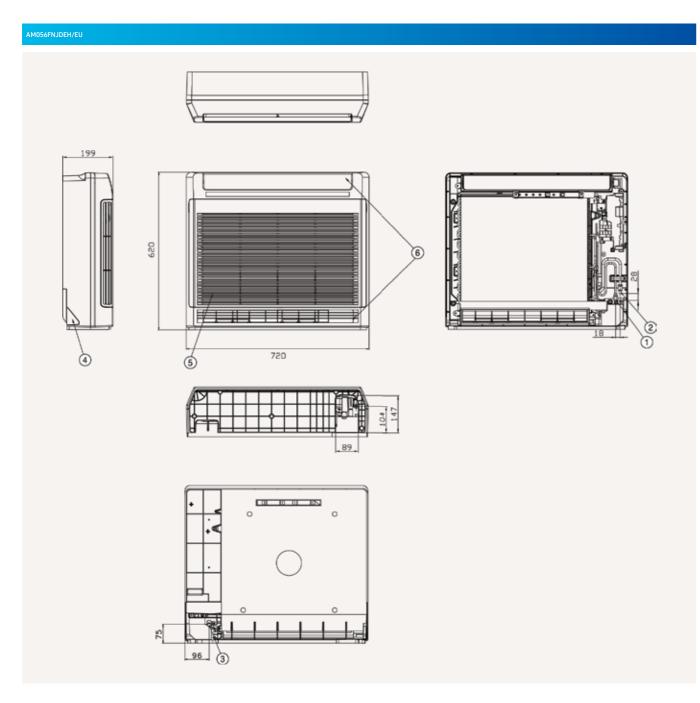
Console



NO	Name	Description
1	Liquid pipe connection	ø6.35 Flare
2	Gas pipe connection	ø12.70 Flare
3	Drain pipe connection	ID 18 Hose
4	Power supply/communication wiring conduits	
5	Air inlet grille	
6	Air outlet louvre	

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment.

Console



NO	Name	Description
1	Liquid pipe connection	ø6.35 Flare
2	Gas pipe connection	ø12.70 Flare
3	Drain pipe connection	ID 18 Hose
4	Power supply/communication wiring conduits	
5	Air inlet grille	
6	Air outlet louvre	



Floor/Ceiling

- Optional vertical or horizontal installation.
 Air supply by means of one adjustable blade.
 Reduced noise thanks to the remotely controlled EEV.
- Sirocco Fan direct driven by a single motor.

- Long-life washable HD 40 permanent filter is included.
 Compatible with Wi-Fi Kit controller.



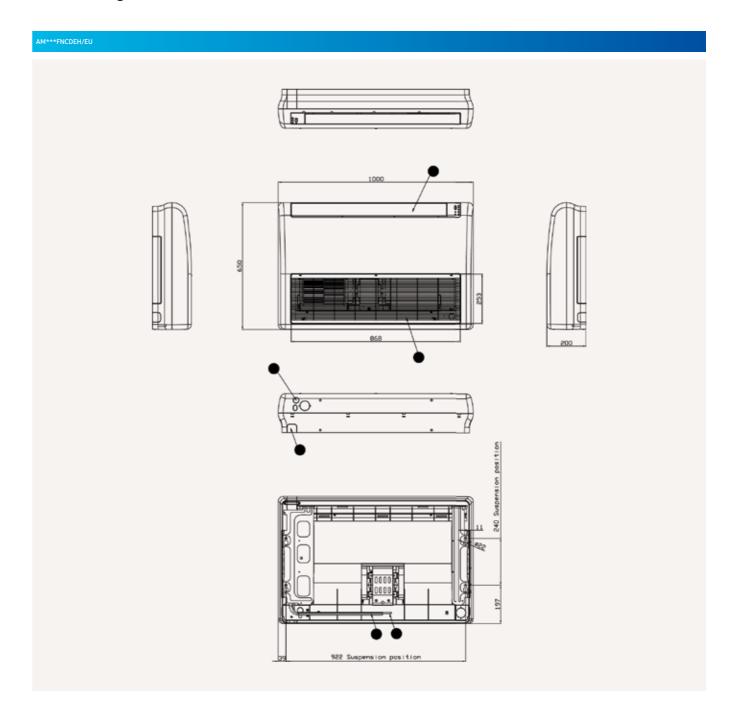


	Model			AM056FNCDEH/EU	AM071FNCDEH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	5.6	7.1
		Heating	kW	6.3	8.0
Power	Power Input (Nominal)	Cooling	W	72	80
		Heating	W	72	77
	Current Input (Nominal)	Cooling	Α	0.33	0.35
		Heating	Α	0.28	0.29
Fan	Motor	Туре	-	Sirocco Fan	Sirocco Fan
		Output	W	60	120
		Number of Fans	ea	1	1
	Airflow Rate	H/M/L (UL)	m³/min	14.00/13.00/12.00	18.00/16.50/15.00
			l/s	233.33/216.67/200.00	300.00/275.00/250.00
Piping Connections	Liquid Pipe		ø, mm	6.35	9.52
			ø, inch	1/4	3/8
	Gas Pipe		ø, mm	12.70	15.88
			ø, inch	1/2	5/8
	Drain Pipe		ø, mm	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire	Below 20 m/ over 20 m	mm²	1.5/2.5	1.5/2.5
	Transmission Cable		mm²	0.75~1.50	0.75~1.50
Refrigerant	Туре -			R410A(Fluorinated gree	nhouse gas, GWP=2,088)
	Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure ¹	(H/M/L)	dB(A)	40/37/34	44/42/40
Dimensions	Net Weight		kg	21.0	21.0
	Net Dimensions (W × H × D)		mm	1,000 x 650 x 200	1,000 x 650 x 200
Air Filter			-	Long-life Filter	Long-life Filter

			Accessories			
20-70 201-44 201-44	0 (4)	1 -		_0	1	
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	EEV Kit 1 Indoor	EEV Kit 2 Indoor	EEV Kit 3 Indoor
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA	MEV-**SA	MXD-E24/32K***A	MXD-E24/32K***A

Dimensional drawings

Floor/Ceiling



NO	Name	Description			
		5.6 kW	7.1 kW		
1	Liquid pipe connection	ø6.35 Flare	ø9.52 Flare		
2	Gas pipe connection	ø12.70 Flare	ø15.88 Flare		
3	Drain pipe connection	ID 18	3 Hose		
4	Power supply/communication wiring conduits				
5	Air inlet grille				
6	Air outlet louvre				

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

Big Ceiling

- Horizontal installation only.
 Air supply by means of one adjustable blade.
 Sirocco Fan direct driven by a single motor.
 Long-life washable HD 40 permanent filter is included.
- Compatible with Wi-Fi Kit controller.



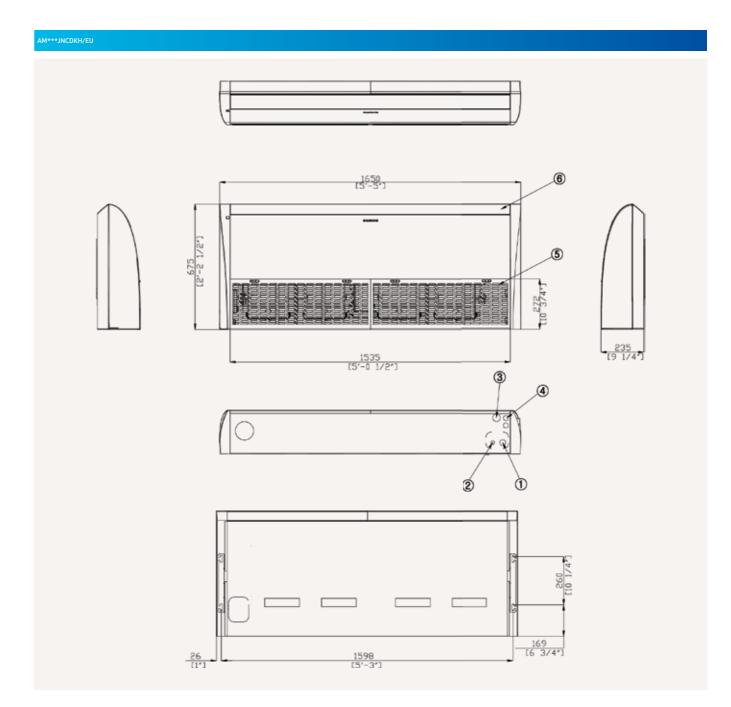
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	Model			AM112JNCDKH/EU	AM140JNCDKH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	11.2	14.0
		Heating	kW	12.5	16.0
Power	PowerInput (Nominal)	Cooling	W	92.0	160.0
		Heating	W	80.0	160.0
	Current Input (Nominal)	Cooling	Α	0.94	1.45
		Heating	Α	0.83	1.45
Fan	Motor	Туре	-	Sirocco Fan	Sirocco Fan
		Output	W	260 x 1	260 x 1
	Airflow Rate	H/M/L (UL)	m³/min	29.30/23.90/18.50	36.40/30.80/26.00
			l/s	488.33/398.33/308.33	606.67/513.33/433.33
Piping Connections	Liquid Pipe		ø, mm	9.52	9.52
			ø, inch	3/8	3/8
	Gas Pipe		ø, mm	15.88	15.88
			ø, inch	5/8	5/8
	Drain Pipe		ø, mm	VP25 (OD 25, ID 20)	VP25 (OD 25, ID 20)
Field Wiring	Power Source Wire	Below 20 m/over 20 m	mm²	1.5/2.5	1.5/2.5
	Transmission Cable		mm²	0.75~1.50	0.75~1.50
Refrigerant	Туре		-	R410A(Fluorinated gree	nhouse gas, GWP=2,088)
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure ¹	(H/M/L)	dB(A)	45/41/37	46/43/38
	Sound Power	Cooling	dB(A)	61	63
Dimensions	Net Weight		kg	33.5	42.5
	Net Dimensions (W × H × D)		mm	1,350 x 235 x 675	1,350 x 235 x 675

	Accessories					
15 - 200 101 - 44 2 - 44 2 - 44	0 (2)	1		The same of the sa		
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	SPi Kit		
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA	MSD-CAN1		

Dimensional drawings

Big Ceiling



NO	Name				
1	Refrigerant gas pipe				
2	Refrigerant liquid pipe				
3	Condensate drain				
4	Power supply/communication wiring conduits				
5	Air inlet grille				
6	Air outlet grille				

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

Concealed Floor-Standing

- Silent operation.Sirocco fan driven by inverter motor.Compatible with Wi-Fi Kit controller.
- Long-life washable permanent filter.

Auto Restart function.





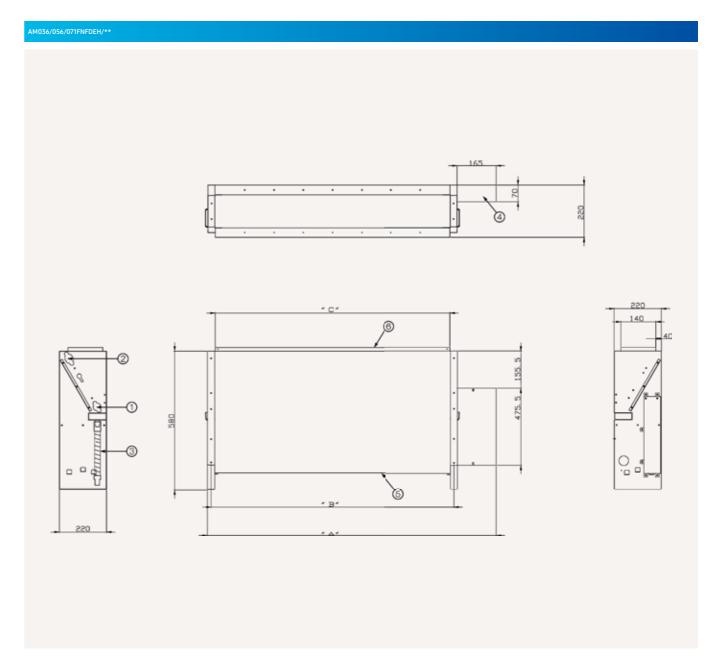


	Model			AM036FNFDEH/EU	AM056FNFDEH/EU	AM071FNFDEH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	3.6	5.6	7.1
		Heating	kW	4.0	6.3	8.0
Power	PowerInput (Nominal)	Cooling	W	50	110	110
		Heating	W	50	110	110
	Current Input (Nominal)	Cooling	Α	0.24	0.53	0.53
		Heating	Α	0.24	0.53	0.53
Fan	Motor	Туре	-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Airflow Rate	H/M/L(UL)	m³/min	10.00/8.50/6.00	15.50/14.00/11.00	15.50/14.00/11.00
			l/s	166.67/141.67/100.00	258.33/233.33/183.33	258.33/233.33/183.33
Piping Connections	Liquid Pipe		ø, mm	6.35	9.52	9.52
			ø, inch	1/4	3/8	3/8
	Gas Pipe		ø, mm	12.70	15.88	15.88
			ø, inch	1/2	5/8	5/8
	Drain Pipe		ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire	Below 20 m/ over 20 m	mm²	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm²	0.75~1.50	0.75~1.50	0.75~1.50
Refrigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2	,088)
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure ¹	(H/M/L)	dB(A)	37/32/27	40/36/32	40/36/32
Dimensions	Net Weight		kg	23.0	28.5	28.5
	Net Dimensions (W × H × D)		mm	945 x 600 x 220	1,225 x 600 x 220	1,225 x 600 x 220
Air Filter			-	Long-life Filter	Long-life Filter	Long-life Filter

	Access	sories	
72-770 701-44 701-44	0.000	-	
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA

Dimensional drawings

Concealed Floor-Standing



Model	А	В	с
AM036FNFDEH/EU	945	730	700
AM056/071FNFDEH/EU	1,225	1,010	980

NO	Name	Description		
		3.6 kW	5.6 kW	7.1 kW
1	Liquid pipe connection	ø6.35 Flare	ø6.35 Flare	ø9.52 Flare
2	Gas pipe connection	ø12.70 Flare	ø12.70 Flare	ø15.88 Flare
3	Drain pipe connection		ID 18 Hose	
4	Power supply/communication wiring conduits			
5	Air inlet grille			
6	Air outlet louvre			

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

Concealed Floor-Standing High Static Pressure

- Silent operation.Sirocco fan driven by inverter motor.Compatible with Wi-Fi Kit controller.
- Long-life washable permanent filter.

Auto Restart function.





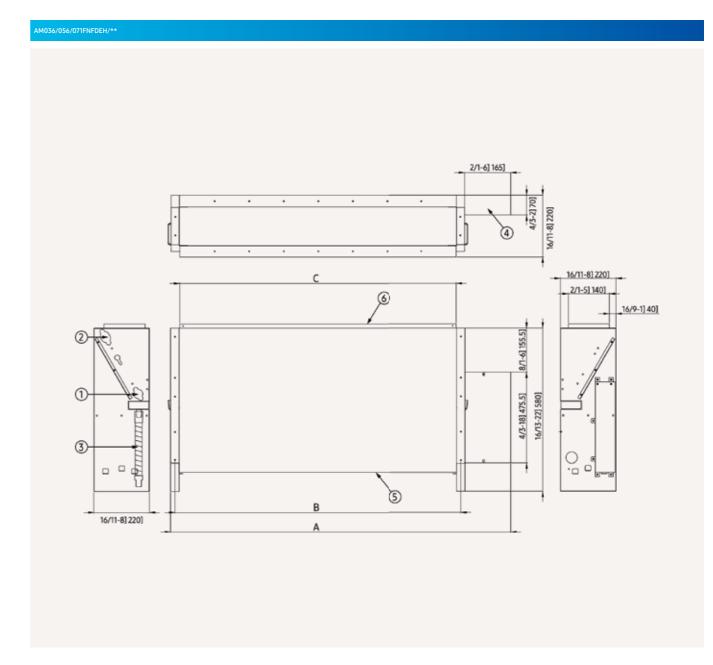


	Model			AM036MNFDEH/EU	AM056MNFDEH/EU	AM071MNFDEH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	3.6	5.6	7.1
		Heating	kW	4.0	6.3	8.0
Power	Power Input (Nominal)	Cooling	kW	0.022	0.042	0.042
		Heating	kW	0.022	0.042	0.042
	Current Input (Nominal)	Cooling	Α	0.20	0.37	0.37
		Heating	Α	0.20	0.37	0.37
an	Motor	Туре	-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output x n	W	100 x 1	100 x 1	100 x 1
	External Static Pressure	Min/Std/Max	mmAq	0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00
		Min/Std/Max	Pa	0.00/29.40/58.90	0.00/29.40/58.90	0.00/29.40/58.90
	Airflow Rate	(H/M/L)	m³/h	600/510/360	930/840/660	930/840/660
Piping Connections	Liquid Pipe		ø, mm	6.35	6.35	9.52
			ø, inch	1/4	1/4	3/8
	Gas Pipe		ø, mm	12.70	12.70	15.88
			ø, inch	1/2	1/2	5/8
	Drain Pipe		ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
ield Wiring	Power Source Wire		mm²	1.5~2.5	1.5~2.5	1.5~2.5
	Transmission Cable		mm²	0.75~1.50	0.75~1.50	0.75~1.50
Refrigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2	,088)
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
ound	Sound Pressure ¹	(H/M/L)	dB(A)	37/32/27	40/36/32	40/36/32
	Sound Power		dB(A)	53.0	59.0	59.0
Dimensions	Net Weight		kg	22.0	27.0	27.0
	Net Dimensions (W x H x D)		mm	945 x 600 x 220	1,225 x 600 x 220	1,225 x 600 x 220
Air Filter			-	Long-life Filter	Long-life Filter	Long-life Filter

	Access	sories	
201-200 201-201 201-201 201-201	0 (4)	1	
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA

Dimensional drawings

Concealed Floor-Standing High Static Pressure



Model	А	В	С
AM036MNFDEH/EU	945	730	700
AM056/071MNFDEH/EU	1,225	1,010	980

NO	Name	Description		
		3.6 kW	5.6 kW	7.1 kW
1	Liquid pipe connection	ø6.35 Flare	ø6.35 Flare	ø9.52 Flare
2	Gas pipe connection	ø12.70 Flare	ø12.70 Flare	ø15.88 Flare
3	Drain pipe connection		ID 18 Hose	
4	Power supply/communication wiring conduits			
5	Air inlet grille			
6	Air outlet louvre			

Packaged Floor-Standing

- Sirocco fan driven by inverter motor.Compatible with Wi-Fi Kit controller.



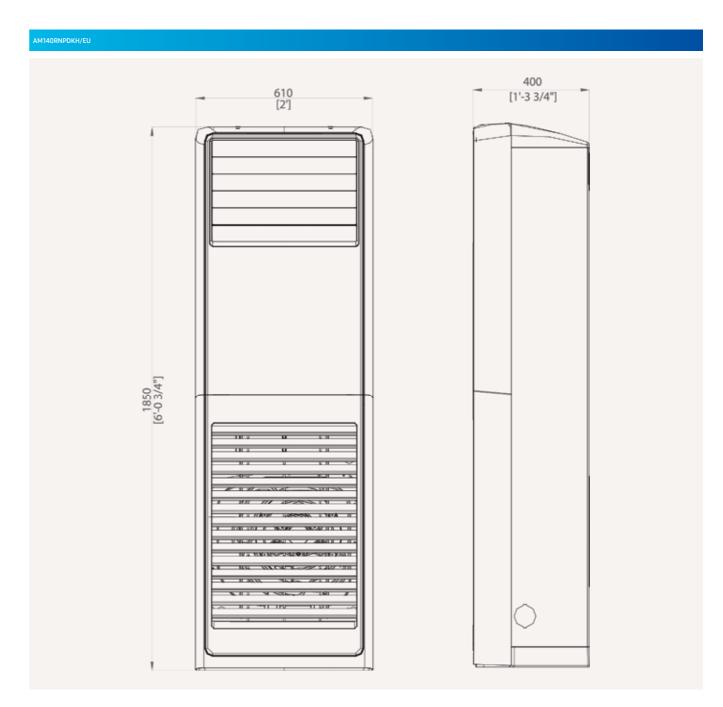


	Model			AM140RNPDKH/EU	AM280RNPDKH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	14	28
		Heating	kW	16	31.5
Power	PowerInput (Nominal)	Cooling	W	190	955
		Heating	W	190	955
	Current Input (Nominal)	Cooling	Α	0.90	4.73
		Heating	Α	0.90	4.73
Fan	Motor	Туре	-	Sirocco Fan	Sirocco Fan
		Output x n	W	154 x 1	700 x 1
	Airflow Rate	H/M/L (UL)	m³/min	35.00/30.50/27.50	70.00/60.00/50.00
			l/s	583.33/508.33/458.33	1,166.67/1,000.00/833.33
Piping Connections	Liquid Pipe		ø, mm	9.52	9.52
			ø, inch	3/8	3/8
	Gas Pipe		ø, mm	15.88	22.22
			ø, inch	5/8	7/8
	Drain Pipe		ø, mm	ID 18 HOSE	VP25 (OD 32, ID 25)
Field Wiring	Power Source Wire		mm²	2.5	2.5
	Transmission Cable		mm²	VCTF 0.75-1.50	VCTF 0.75-1.50
Refrigerant	Туре		-	R410A(Fluorinated green	nhouse gas, GWP=2,088)
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure ¹	(H/L)	dB(A)	54/47	58/54
	Sound Power	Cooling	dB(A)	-	-
Dimension	Net Weight		kg	48.0	115.0
	Net Dimensions (W x H x D)		mm	650 x 1,850 x 400	1,100 x 1,800 x 485

Ac	cessories
1 -	
Wi-Fi Kit	External Room Sensor
MIM-H04EN	MRW-TA

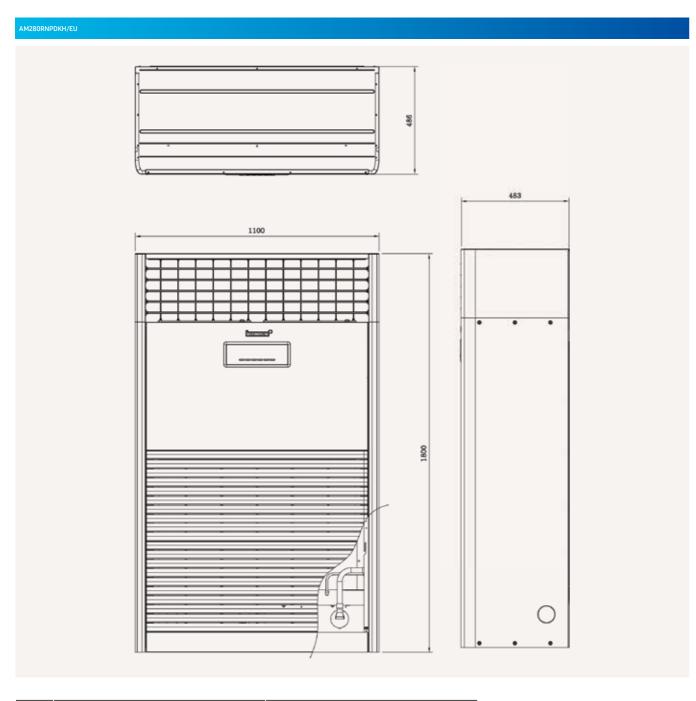
Dimensional drawings

Packaged Floor-Standing



NO	Name	Description
1	Gas piping refrigerant	ø15.88 (5/8)
2	Liquid piping refrigerant	ø9.52 (3/8)
3	Condensation drain piping	-

Packaged Floor-Standing



NO	Name	Description
1	Refrigerant gas pipe	ø22.22 (7/8) Flare
2	Refrigerant liquid pipe	ø9.52 (3/8) Flare
3	Drain pipe connection	VP25 (OD 32, ID 25)



Boracay Wall-Mounted (EEV excluded)

- Motorised louvre provides an automatic change in airflow
- by directing the air up and down.

 Manual adjustable guide vane allows users to change the airflow from side to side (left to right).
- Turbo function provides fast and powerful cooling.
- Cross-flow fan direct driven by a single motor.
 Washable Full HD 80 filter.
- Four-direction drain and refrigerant piping connection as standard.



Model				AM015KNTDEH/EU	AM022KNTDEH/EU	AM028KNTDEH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz
Performance		Cooling	kW	1.5	2.2	2.8
		Heating	kW	1.7	2.5	3.2
Power	PowerInput (Nominal)	Cooling	W	32.0	32.0	38.0
		Heating	W	34.0	35.0	39.0
	Current Input (Nominal)	Cooling	Α	0.20	0.20	0.22
		Heating	Α	0.20	0.20	0.22
	MCA		Α	0.3	0.3	0.4
	MFA		Α	15.0	15.0	15.0
Fan	Туре		-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Number of Fans		ea	1	1	1
	Airflow Rate	H/M/L(UL)	m³/min	6.2/5.7/5.1	6.6/5.7/5.1	7.0/6.2/5.5
			l/s	103.3/95.0/85.0	110.0/95.0/85.0	116.7/103.3/91.7
Fan motor	Туре		-	SSR Feedback	SSR Feedback	SSR Feedback
	Output x n		W	19 x 1	19 x 1	19 x 1
Piping Connections	Liquid Pipe		ø, mm	6.35	6.35	6.35
			ø, inch	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.7	12.7	12.7
			ø, inch	1/2	1/2	1/2
	Drain Pipe		ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire	Minimum	mm²	1.5	1.5	1.5
	For connection with indoor	Minimum	mm²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Туре		-	R410	R410A(Fluorinated greenhouse gas, GWP=2,088)	
	Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure ¹	H/M/L	dB(A)	30/28/25	31/28/25	31/29/26
	Sound Power	Cooling	dB(A)	47	48	48
Dimensions	Net Weight		kg	8.0	8.0	8.5
	Net Dimensions (W × H × D)		mm	820 x 285 x 227	820 x 285 x 227	820 x 285 x 227

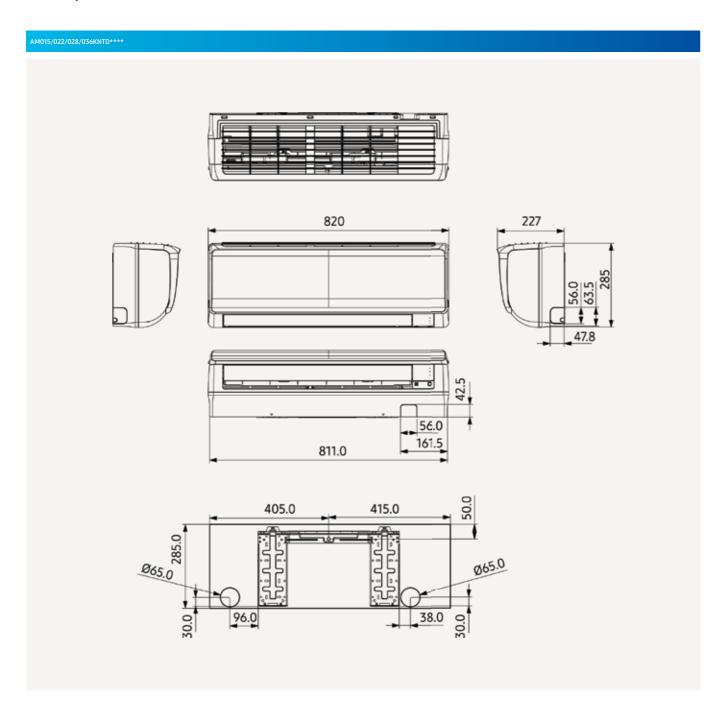
	Accessories						
899 145		b (2) 2	1 —		_0	4	
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	EEV Kit 1 Indoor	EEV Kit 2 Indoor	EEV Kit 3 Indoor
AR-EH03E	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA	MEV-**SA	MXD-E24/32K***A	MXD-E24/32K***A



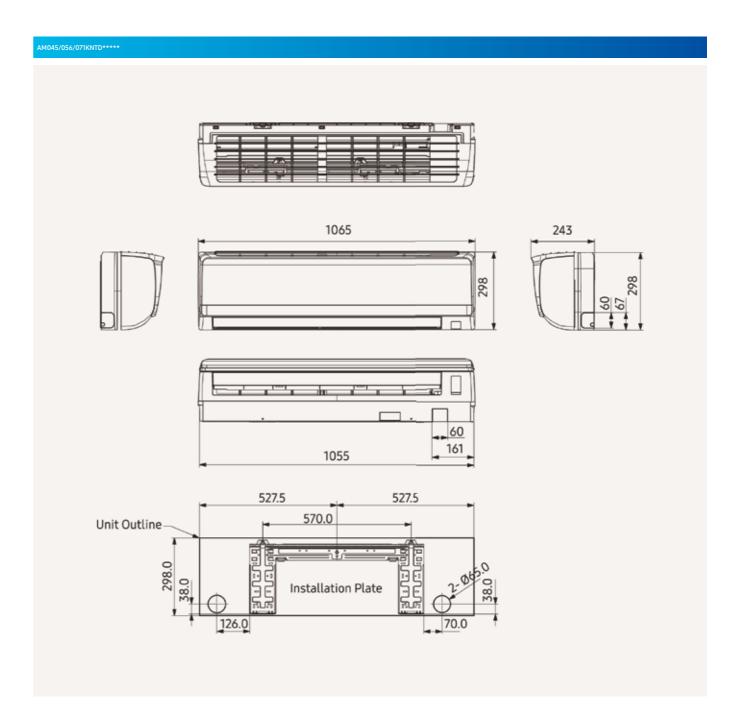
AM036KNTDEH/EU	AM045KNTDEH/EU	AM056KNTDEH/EU	AM071KNTDEH/EU
1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz
3.6	3.6 4.5		6.8
4.0	5.0	6.3	7.0
42.0	47.0	48.0	51.0
42.0	47.0	48.0	53.0
0.23	0.27	0.27	0.28
0.23	0.27	0.27	0.28
0.4	0.4	0.4	0.4
15.0	15.0	15.0	15.0
Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
1	1	1	1
8.5/7.5/6.6	13.9/12.4/11.2	14.4/12.9/11.2	15.7/14.1/12.9
141.7/125.0/110.0	231.7/206.7/186.7	240.0/215.0/186.7	261.7/235.0/215.0
SSR Feedback	SSR Feedback	SSR Feedback	SSR Feedback
19 x 1	28 x 1	28 x 1	28 x 1
6.35	6.35	6.35	9.52
1/4	1/4	1/4	3/8
12.7	6.35	6.35	9.52
1/2	1/2	1/2	5/8
ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
1.5	1.5	1.5	1.5
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
	R410A(Fluorinated green	nhouse gas, GWP=2,088)	
EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
36/33/29	38/35/33	39/36/33	40/38/35
51	53	53	55
8.5	12.0	12.0	12.0
820 x 285 x 227	1,065 x 298 x 243	1,065 x 298 x 243	1,065 x 298 x 243

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

Boracay Wall-Mounted (EEV excluded)



NO	Name	Description
1	Liquid pipe connection	ø6.35 (1/4)
2	Gas pipe connection	ø12.70 (1/2)
3	Drain pipe connection	ID18 HOSE
4	Power supply/communication wiring conduits	-



NO	Name	Description
1	Liquid pipe connection	ø6.35 (1/4)
2	Gas pipe connection	ø12.70 (1/2)
3	Drain pipe connection	ID 18 HOSE
4	Power supply/communication wiring conduits	-

Boracay Wall-Mounted (EEV included)

- Motorised louvre provides an automatic change in airflow by directing the air up and down.
 Manual adjustable guide vane allows users to change the airflow from side to side (left to right).
- Turbo function provides fast and powerful cooling.
 Cross-flow fan direct driven by a single motor.
 Washable Full HD 80 filter.

- Four-direction drain and refrigerant piping connection as standard.



Model				AM015KNQDEH/EU	AM022KNQDEH/EU	AM028KNQDEH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz
Performance		Cooling	kW	1.5	2.2	2.8
		Heating	kW	1.7	2.5	3.2
Power	Power Input (Nominal)	Cooling	W	32.0	32.0	38.0
		Heating	W	34.0	35.0	39.0
	Current Input (Nominal)	Cooling	Α	0.20	0.20	0.22
		Heating	Α	0.20	0.20	0.22
	MCA		Α	0.3	0.3	0.4
	MFA		Α	15.0	15.0	15.0
an	Туре		-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Number of Fans		ea	1	1	1
	Airflow Rate	H/M/L(UL)	m³/min	6.2/5.7/5.1	6.6/5.7/5.1	7.0/6.2/5.5
			l/s	103.3/95.0/85.0	110.0/95.0/85.0	116.7/103.3/91.7
Fan motor	Туре		-	SSR Feedback	SSR Feedback	SSR Feedback
	Output x n		W	19 x 1	19 x 1	19 x 1
Piping Connections	Liquid Pipe		ø, mm	6.35	6.35	6.35
			ø, inch	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.7	12.7	12.7
			ø, inch	1/2	1/2	1/2
	Drain Pipe		ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipe
ield Wiring	Power Source Wire	Minimum	mm²	1.5	1.5	1.5
	For connection with indoor	Minimum	mm²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
efrigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2	088)
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure ¹	H/M/L	dB(A)	30/28/25	31/28/25	31/29/26
	Sound Power	Cooling	dB(A)	47	48	48
Dimensions	Net Weight		kg	8.5	8.5	9.0
	Net Dimensions (W × H × D)		mm	820 x 285 x 227	820 x 285 x 227	820 x 285 x 227

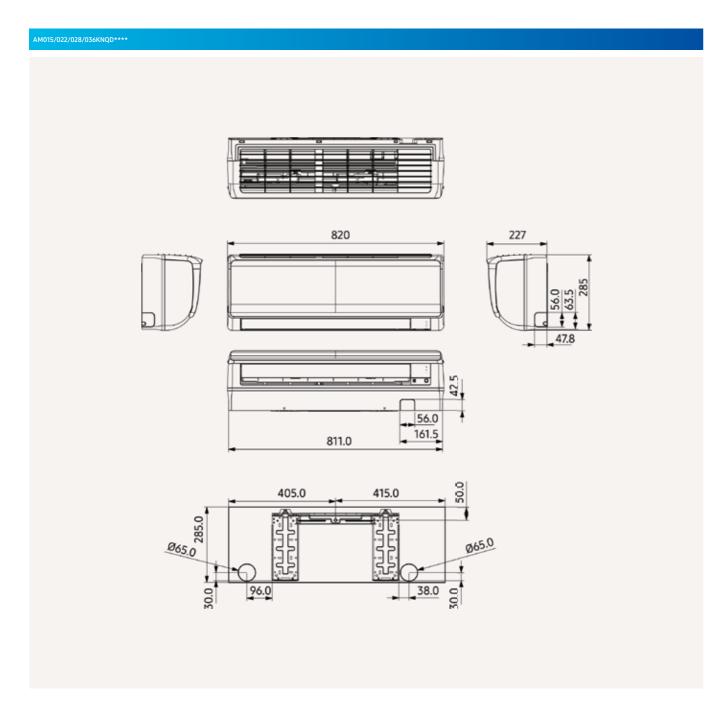
		Accessories		
89) 125	72-731 201-48 2-12-13 2-13-13 2-13-13	0 (2)	:	
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
AR-EH03E	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA



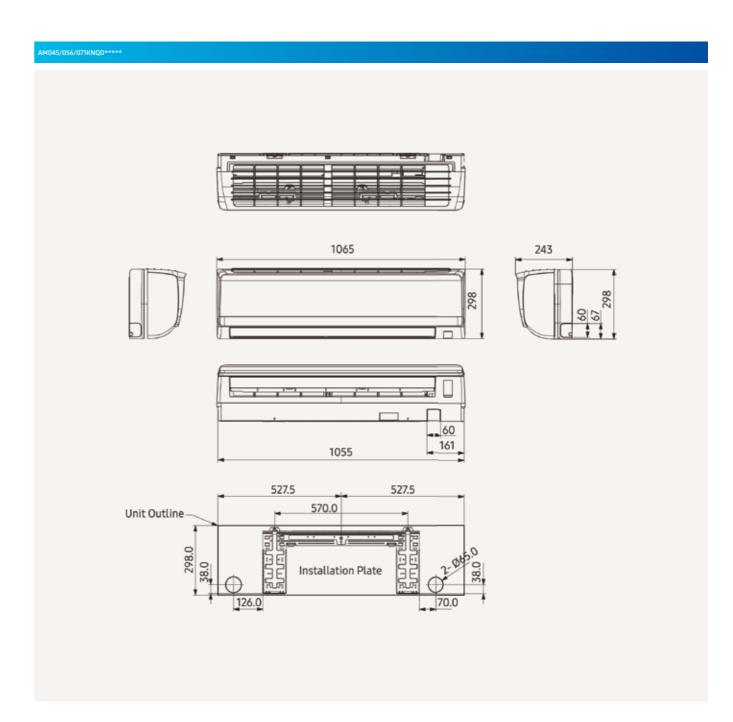
AM036KNQDEH/EU	AM045KNQDEH/EU	AM056KNQDEH/EU	AM071KNQDEH/EU
1Ф, 2, 220-240 V, 50 Hz			
3.6 4.5		5.6	6.8
4.0	5.0	6.3	7.0
42.0	47.0	48.0	51.0
42.0	47.0	48.0	53.0
0.23	0.27	0.27	0.28
0.23	0.27	0.27	0.28
0.4	0.4	0.4	0.4
15.0	15.0	15.0	15.0
Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
1	1	1	1
8.5/7.5/6.6	13.9/12.4/11.2	14.4/12.9/11.2	15.7/14.1/12.9
141.7/125.0/110.0	231.7/206.7/186.7	240.0/215.0/186.7	261.7/235.0/215.0
SSR Feedback	SSR Feedback	SSR Feedback	SSR Feedback
19 x 1	28 x 1	28 x 1	28 x 1
6.35	6.35	6.35	9.52
1/4	1/4	1/4	3/8
12.7	12.7	12.7	15.88
1/2	1/2	1/2	5/8
ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Both liquid and gas pipes			
1.5	1.5	1.5	1.5
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
	R410A(Fluorinated gree	nhouse gas, GWP=2,088)	
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
36/33/29	38/35/33	39/36/33	40/38/35
51	53	53	55
9.0	12.5	12.5	12.5
820 x 285 x 227	1,065 x 298 x 243	1,065 x 298 x 243	1,065 x 298 x 243

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

Boracay Wall-Mounted (EEV included)



NO	Name	Description
1	Liquid pipe connection	ø6.35 (1/4)
2	Gas pipe connection	ø12.70 (1/2)
3	Drain pipe connection	ID 18 HOSE
4	Power supply/communication wiring conduits	-



NO	Name	Description
1	Liquid pipe connection	ø6.35 (1/4)
2	Gas pipe connection	ø12.70 (1/2)
3	Drain pipe connection	ID 18 HOSE
4	Power supply/communication wiring conduits	-

WindFree™ Deluxe (EEV included)

- Three-step cooling: Fast Cooling mode
 WindFree™ Cooling Mode
 Wi-Fi Control with SmartThings and Bixby voice controls
- Equipped with NASA communication protocol
 Equipped with Easy Filter Plus







				AM015TNVDKH/EU	AM022TNVDKH/EU	AM028TNVDKH/EU
Power Supply			Ф, #, V, Hz	10, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz
Performance	Capacity (Nominal)	Cooling	kW	1.5	2.2	2.8
Periormance	Capacity (Nonlinat)	Heating	kW	1.7	2.5	3.2
	C . ': (N . ' . I)					
Power	Capacity (Nominal)	Cooling	W	20	24	30
		Heating	W	20	24	30
	Current Input (Nominal)	Cooling	Α	0.13	0.16	0.20
		Heating	Α	0.13	0.16	0.20
Fan	Motor	Туре	-	Crossflow Fan	Crossflow Fan	Crossflow Fan
		Output	W	27 x 1	27 x 1	27 x 1
	Airflow Rate	H/M/L (UL)	m³/min	4.9/4.5/4.1	5.7/5.0/4.5	8.5/7.7/6.9
			l/s	81.7/75.0/68.3	95.0/83.3/75.0	141.7/128.3/115.0
Piping	Liquid Pipe		ø, mm	6.35	6.35	6.35
Connections			ø, inch	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.70	12.70	12.70
			ø, inch	1/2	1/2	1/2
	Drain Pipe		ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire		mm²	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm²	0.75~1.50	0.75~1.50	0.75~1.50
Refrigerant	Туре		-	R410	A (Fluorinated greenhouse gas, GWP = 2	,088)
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure ¹	(H/M/L)	dB(A)	31/30/27/26 (WindFree™)	34/32/30/27 (WindFree™)	34/33/32/26 (WindFree™)
	Sound Power	Cooling	dB(A)	50	51	52
Dimensions	Net Weight		kg	9.0	9.0	9.5
	Net Dimensions (WxHxD)		mm	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215

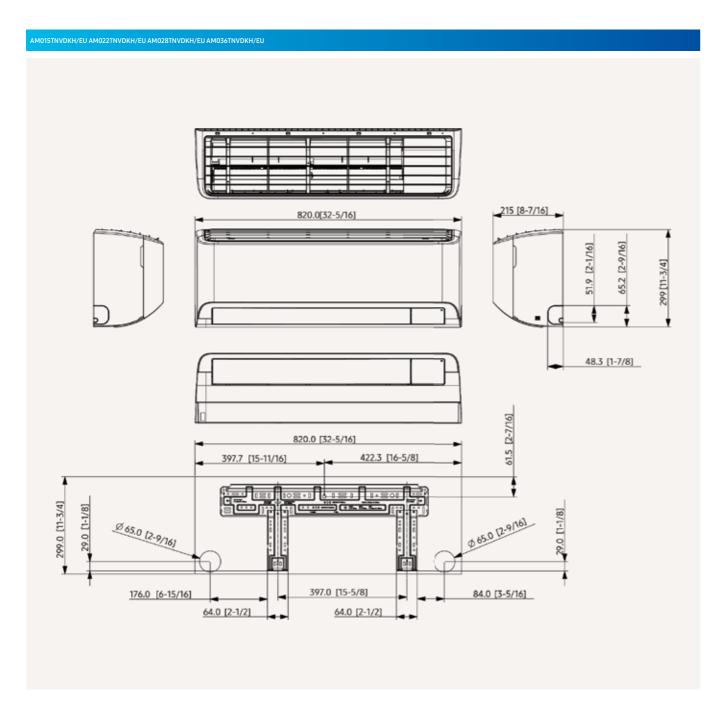
	Acce	ssories	
898 187	20-20 20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20 20-20 20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20-20 20 20-20 20 20-20 20 20-20 20 20 20 20 20 20 20 20 20 20	p 42 %	
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit
AR-EH03E	MWR-SH11N	MWR-WG00*N	MIM-H04EN



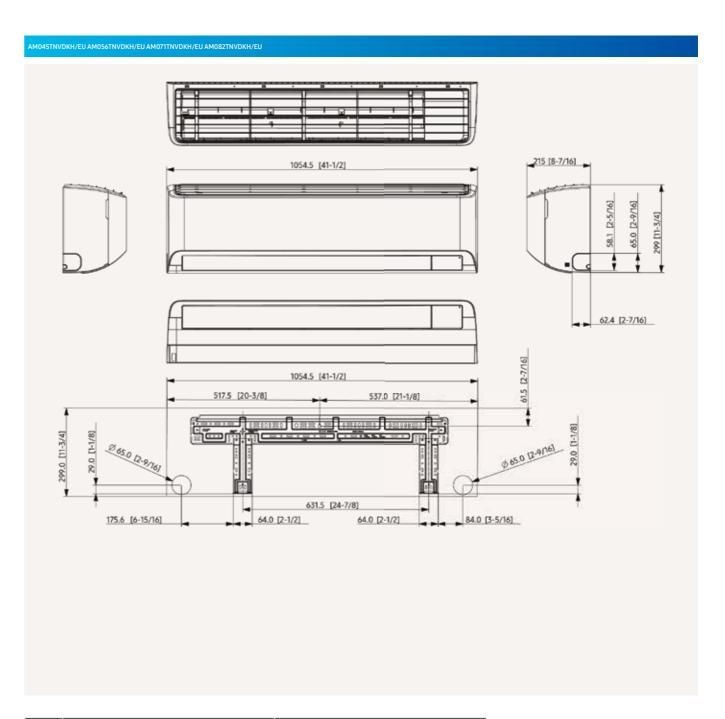
AM036TNVDKH/EU	AM045TNVDKH/EU	AM056TNVDKH/EU	AM071TNVDKH/EU	AM082TNVDKH/EU
1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz
3.6	4.5	5.6	6.8	8.2
4.0	5.0	6.3	7.0	8.5
37	40	52	60	65
37	40	52	60	65
0.25	0.27	0.35	0.40	0.43
0.25	0.27	0.35	0.40	0.43
Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
27 x 1	27 x1	27 x 1	27 x 1	27 x 1
10.3/9.1/8.3	12.5/11.4/10.5	15.7/13.8/12.0	16.8/15.0/13.2	17.5/15.6/13.8
171.7/151.7/138.3	208.3/190.0/175.0	261.7/230.0/200.0	280.0/250.0/220.0	291.7/260.0/230.0
6.35	6.35	6.35	9.52	9.52
1/4	1/4	1/4	3/8	3/8
12.70	12.70	12.70	15.88	15.88
1/2	1/2	1/2	5/8	5/8
ID 18 HOSE	ID18 HOSE	ID 18 HOSE	ID 18 HOSE	ID18 HOSE
1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
	R41	OA (Fluorinated greenhouse gas, GWP = 2,	088)	
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
40/36/34/26 (WindFree™)	37/34/33/29 (WindFree™)	40/37/34/29 (WindFree™)	43/40/37/29 (WindFree™)	46/45/43/30 (WindFree™)
56	55	58	62	64
9.5	12.0	12.0	12.0	13.0
820 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

WindFree™ Deluxe (EEV included)



NO	Name	Description
1	Refrigerant gas pipe	ø12.70 (1/2) Flare
2	Refrigerant liquid pipe	ø6.35 (1/4) Flare
3	Drain pipe connection	ID 18 Hose



NO	Name	Description
1	Refrigerant gas pipe	ø12.70 (1/2) Flare
2	Refrigerant liquid pipe	ø6.35 (1/4) Flare
3	Drain pipe connection	ID 18 Hose

WindFree™ Deluxe (EEV excluded)

- Three-step cooling: Fast Cooling mode
 WindFree™ Cooling Mode
 Wi-Fi Control with SmartThings and Bixby voice controls
- Equipped with NASA communication protocol
 Equipped with Easy Filter Plus







				AM015TNADKH/EU	AM022TNADKH/EU	AM028TNADKH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz
Performance	Capacity (Nominal)	Cooling	kW	1.5	2.2	2.8
		Heating	kW	1.7	2.5	3.2
Power	Capacity (Nominal)	Cooling	W	20	24	30
		Heating	W	20	24	30
	Current Input (Nominal)	Cooling	Α	0.13	0.16	0.20
		Heating	Α	0.13	0.16	0.20
Fan	Motor	Туре	-	Crossflow Fan	Crossflow Fan	Crossflow Fan
		Output	W	27 x 1	27 x1	27 x1
	Airflow Rate	H/M/L (UL)	m³/min	4.9/4.5/4.1	5.7/5.0/4.5	8.5/7.7/6.9
			l/s	81.7/75.0/68.3	95.0/83.3/75.0	141.7/128.3/115.0
Piping	Liquid Pipe		ø, mm	6.35	6.35	6.35
Connections			ø, inch	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.70	12.70	12.70
			ø, inch	1/2	1/2	1/2
	Drain Pipe		ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire		mm²	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm²	0.75~1.50	0.75~1.50	0.75~1.50
Refrigerant	Туре		-	R410	A (Fluorinated greenhouse gas, GWP = 2,	088)
	Control Method ¹		-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure ²	(H/M/L)	dB(A)	31/30/27/26 (WindFree™)	34/32/30/27 (WindFree™)	34/33/32/26 (WindFree™)
	Sound Power	Cooling	dB(A)	50	51	52
Dimensions	Net Weight		kg	8.5	8.5	9.0
	Net Dimensions (WxHxD)		mm	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215

			Accessories			
890 127		0 (2) 2	:	_0	4	
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	EEV Kit 1 Indoor	EEV Kit 2 Indoor	EEV Kit 3 Indoor
AR-EH03E	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MEV-**SA	MXD-E24/32K***A	MXD-E24/32K***A

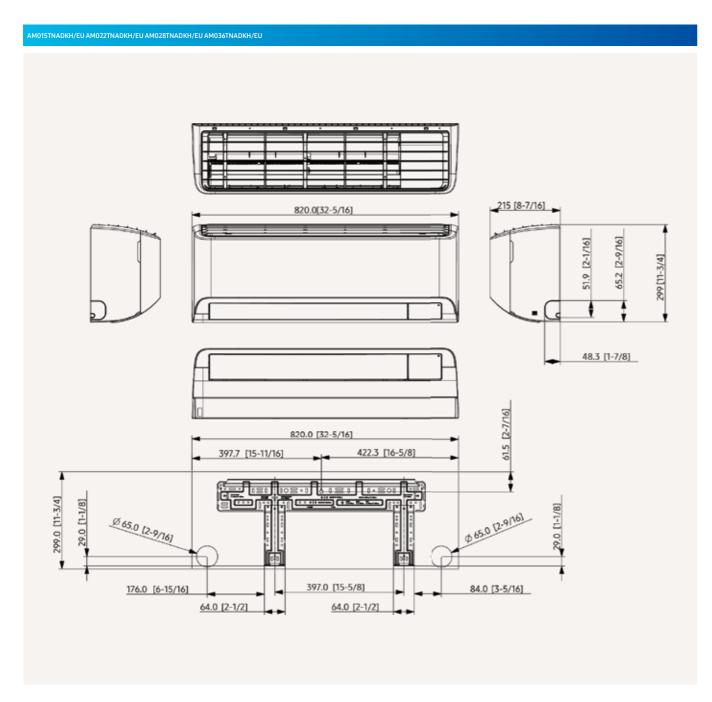


AM036TNADKH/EU	AM045TNADKH/EU	AM056TNADKH/EU	AM071TNADKH/EU	AM082TNADKH/EU
1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz
3.6	4.5	5.6	6.8	8.2
4.0	5.0	6.3	7.0	8.5
37	40	52	60	65
37	40	52	60	65
0.25	0.27	0.35	0.40	0.43
0.25	0.27	0.35	0.40	0.43
Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
27 x 1	27 x 1	27 x 1	27 x 1	27 x 1
10.3/9.1/8.3	12.5/11.4/10.5	15.7/13.8/12.0	16.8/15.0/13.2	17.5/15.6/13.8
171.7/151.7/138.3	208.3/190.0/175.0	261.7/230.0/200.0	280.0/250.0/220.0	291.7/260.0/230.0
6.35	6.35	6.35	9.52	9.52
1/4	1/4	1/4	3/8	3/8
12.70	12.70	12.70	15.88	15.88
1/2	1/2	1/2	5/8	5/8
ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
	R41	OA (Fluorinated greenhouse gas, GWP = 2,0	88)	
EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
40/36/34/26 (WindFree™)	37/34/33/29 (WindFree™)	40/37/34/29 (WindFree™)	43/40/37/29 (WindFree™)	46/45/43/30(WindFree™)
56	55	58	62	64
9.0	11.5	11.5	11.5	12.5
820 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215

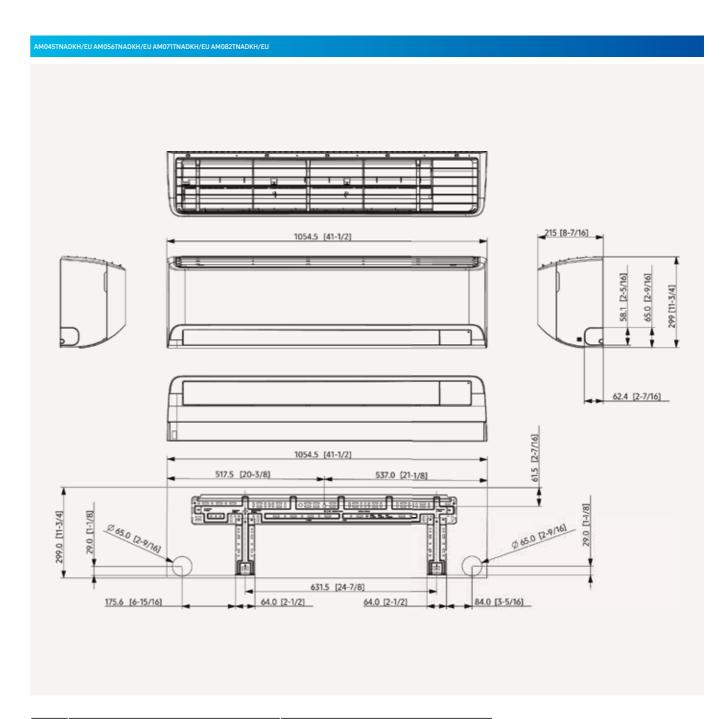
EEV Kit is necessary to control the refrigerant flow in the WindFree^{IM} Deluxe (EEV Excluded), please order EEV Kit separately.

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

WindFree™ Deluxe (EEV excluded)



NO	Name	Description
1	Refrigerant gas pipe	ø12.70 (1/2) Flare
2	Refrigerant liquid pipe	ø6.35 (1/4) Flare
3	Drain pipe connection	ID 18 Hose



NO	Name	Description
1	Refrigerant gas pipe	ø12.70 (1/2) Flare
2	Refrigerant liquid pipe	ø6.35 (1/4) Flare
3	Drain pipe connection	ID 18 Hose

Max Wall-Mounted

- Cross-flow fan direct driven by a single BLDC motor.
 Return air is filtered by means of an easily removable, washable Full HD 80 filter.
- Motorised louvre provides an automatic change in airflow
- by directing the air up and down.

 Manual adjustable guide vane allows users to change the airflow from side to side (left to right).

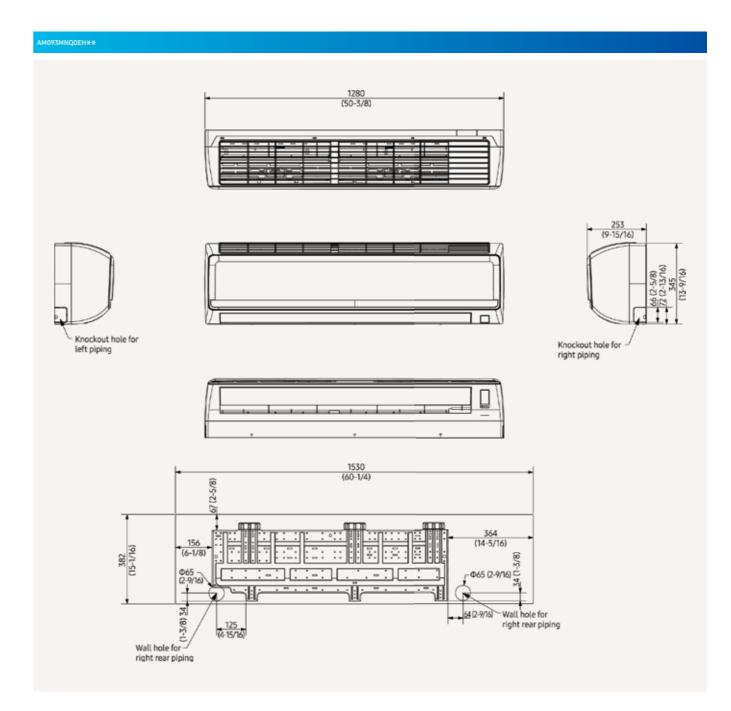


Model				AM093MNQDEH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz
Performance	Capacity	Cooling	kW	9.3
		Heating	kW	9.8
Power	Power Input	Cooling	W	66
		Heating	W	76
	Current Input	Cooling	Α	0.47
		Heating	Α	0.54
	Current	MCA	Α	0.68
		MFA	Α	15
Fan	Туре		-	Crossflow Fan
	Number of Fans		ea	1
	Airflow Rate	H/M/L	m³/min	23/20/17
			l/s	383/333/283
Fan Motor	Туре		-	BLDC Motor
	Output x n		W	58 x 1
Piping Connections	Liquid Pipe		ø, mm	9.52
			ø, inch	3/8
	Gas Pipe		ø, mm	15.88
			ø, inch	5/8
	Drain Pipe		ø, mm	ID 18 HOSE
Wiring Connections	Communication	Min.	mm²	0.75
		Remark	-	F1, F2
Refrigerant	Туре		-	R410A(Fluorinated greenhouse gas, GWP=2,088)
	Electronic Expansion Valve		-	EEV INCLUDED
Sound	Sound Pressure ¹	H/M/L	dB(A)	49/46/42
	Sound Power	Cooling	dB(A)	66
Dimensions	Net Weight		kg	18.5
	Net Dimensions (W × H × D)		mm	1,280 x 345 x 253

Accessories				
	0 (4) 7	-		
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA	

Dimensional drawings

Max Wall-Mounted



NO	Name	Description
1	Liquid pipe connection	ø9.52 (3/8)
2	Gas pipe connection	ø15.88 (5/8)
3	Drain pipe connection	ID 18 HOSE
4	Power supply/communication wiring conduits	-

Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment.

Hydro Unit

- Production of low temperature hot water and chilled water.
- Hot water production to a maximum temperature of 50 °C/80 °C (HT models).
- Two-way control: leaving water temperature and room temperature control.
- Connection to low temperature radiators and AHU water coils.
- Hot water production for domestic hot water use.
 Connectable to Heat Recovery DVM S systems (excluding 50 kW hydro unit).

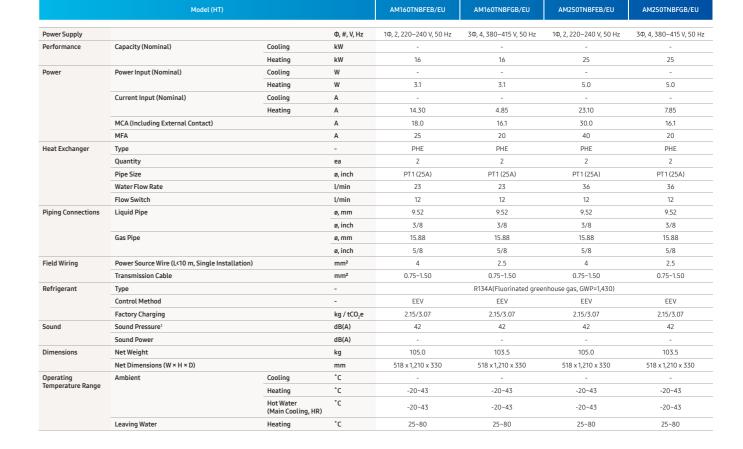






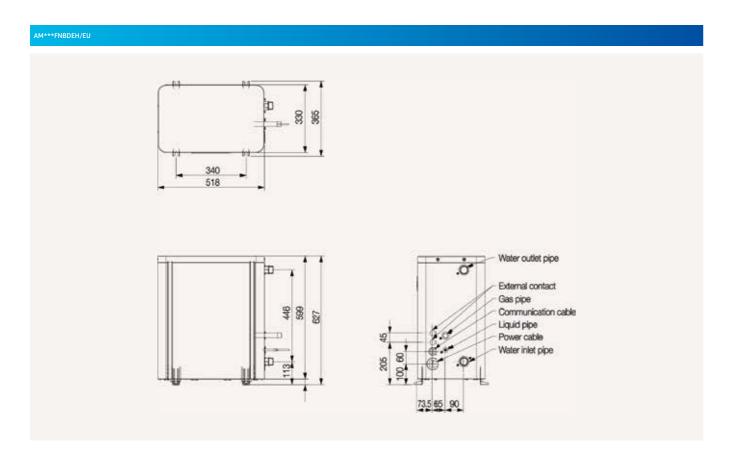
	Model (HE)			AM160FNBDEH/EU	AM320FNBDEH/EU	AM500FNBDEH/EU	
Power Supply			Φ, #, V, Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	
Performance	Capacity (Nominal)	Cooling	kW	14.0	28,0	44.8	
		Heating	kW	16.0	31.5	50.4	
ower	Power Input (Nominal)	Cooling	W	10	10	10	
		Heating	W	10	10	10	
	Current Input (Nominal)	Cooling	Α	0.05	0.05	0.05	
		Heating	A	0.05	0.05	0.05	
	MCA (Including External Contact)		A	2.2	2.2	2.2	
	MFA		A	2.75	2.75	2.75	
leat Exchanger	Туре		-	PHE	PHE	PHE	
	Quantity		ea	1	1	1	
Pipe	Pipe Size		ø, inch	PT1 (25A)	PT1 (25A)	PT11/4 (32A)	
	Water Flow Rate		l/min	48	92	150	
	Flow Switch		l/min	20	30	50	
iping Connections	Liquid Pipe		ø, mm	9.52	9.52	12.70	
			ø, inch	3/8	3/8	1/2	
	Gas Pipe		ø, mm	15.88	22.20	28.58	
			ø, inch	5/8	7/8	11/8	
ield Wiring	Power Source Wire (L<10 m, Single Installation)		mm²	2.5	2.5	2.5	
	Transmission Cable		mm²	0.75~1.50	0.75~1.50	0.75~1.50	
tefrigerant	Туре		-	R410.	R410A(Fluorinated greenhouse gas, GWP=2,088)		
	Control Method		-	EEV	EEV	EEV	
ound	Sound Pressure ¹		dB(A)	27	28	31	
Dimensions	Net Weight		kg	29.0	33.0	40.0	
	Net Dimensions (W × H × D)		mm	518 x 627 x 330	518 x 627 x 330	518 x 627 x 330	
perating	Ambient	Cooling	°C	-5.0~48.0	-5.0~48.0	-5.0~48.0	
emperature Range		Heating	°C	-20.0~35.0	-20.0~35.0	-20.0~35.0	
		Hot Water (Main Cooling, HR)	°C	-20.0~35.0 (43.0)	-20.0~35.0 (43.0)	-20.0~35.0 (43.0)	
	Leaving Water	Cooling	°C	5.0~30.0	5.0~30.0	5.0~30.0	
		Heating	°C	20.0~50.0	20.0~50.0	20.0~50.0	

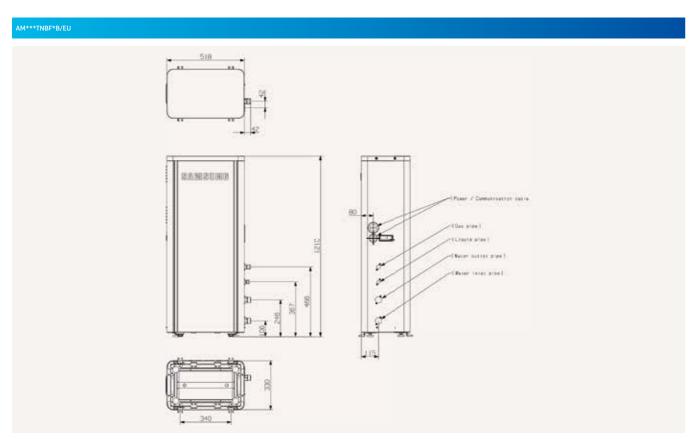
Ac	ccessories
	0 149 2
Wired	Wired
Remote Controller	Remote Controller
MWR-WW00N	MWR-WW10*N

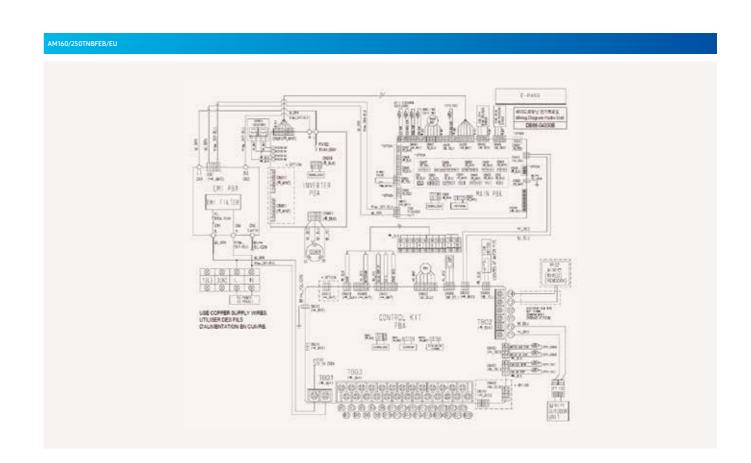


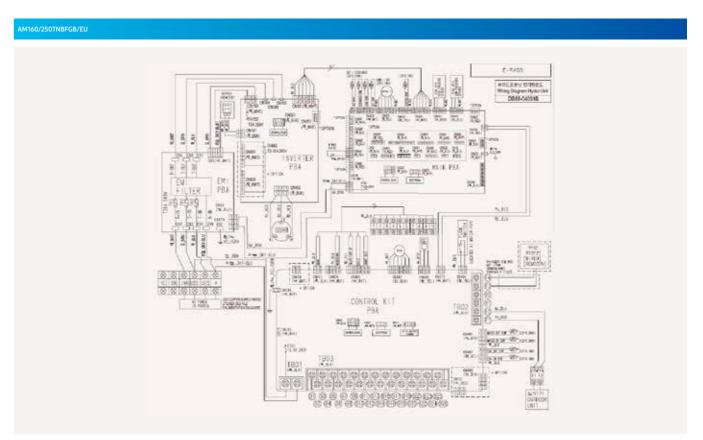
Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment.

Hydro Unit





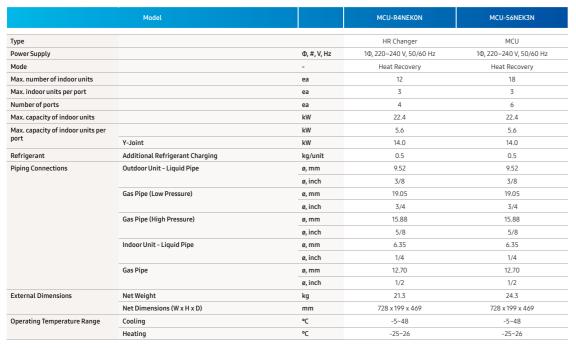




Mode Control Unit (MCU)

• Enable simultaneous heating and cooling for DVM Heat Recovery model.

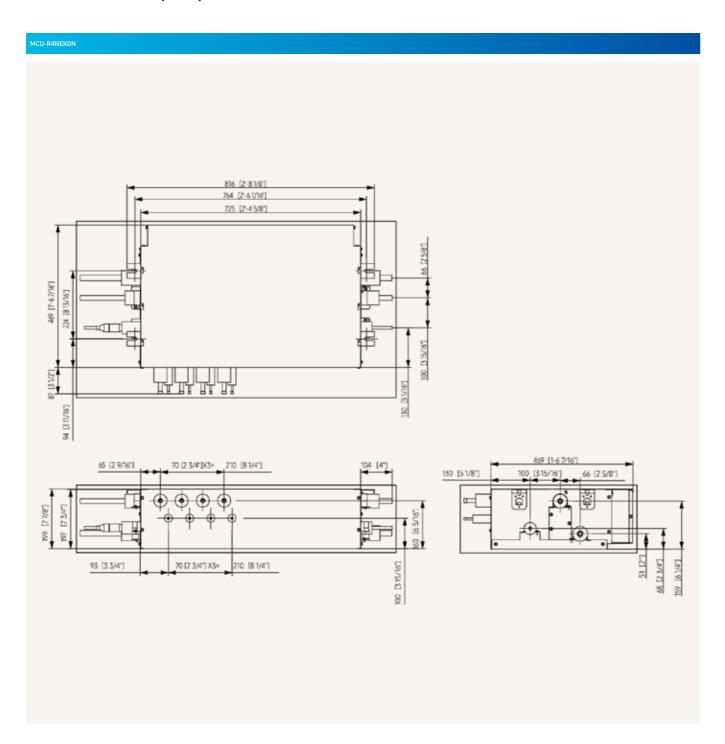


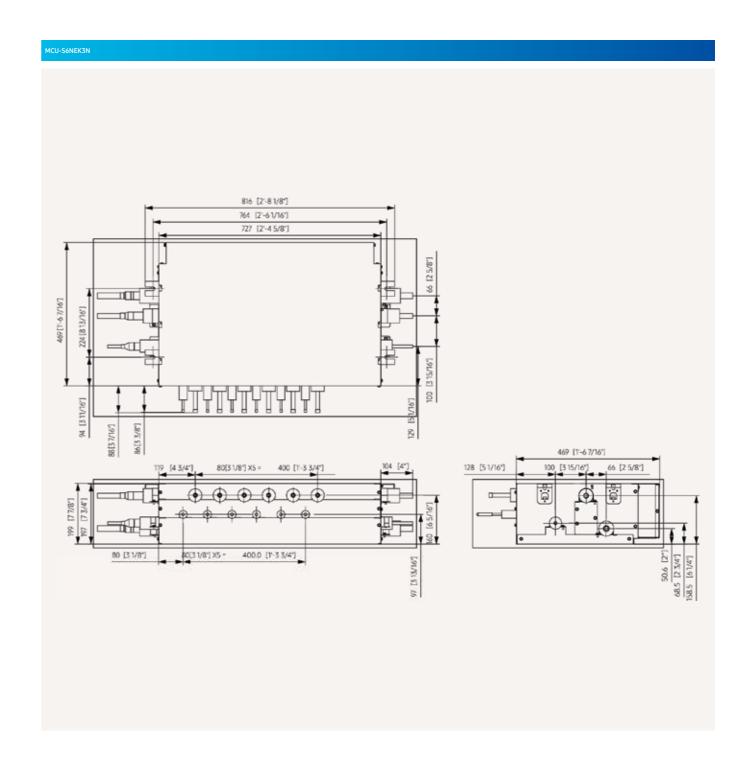




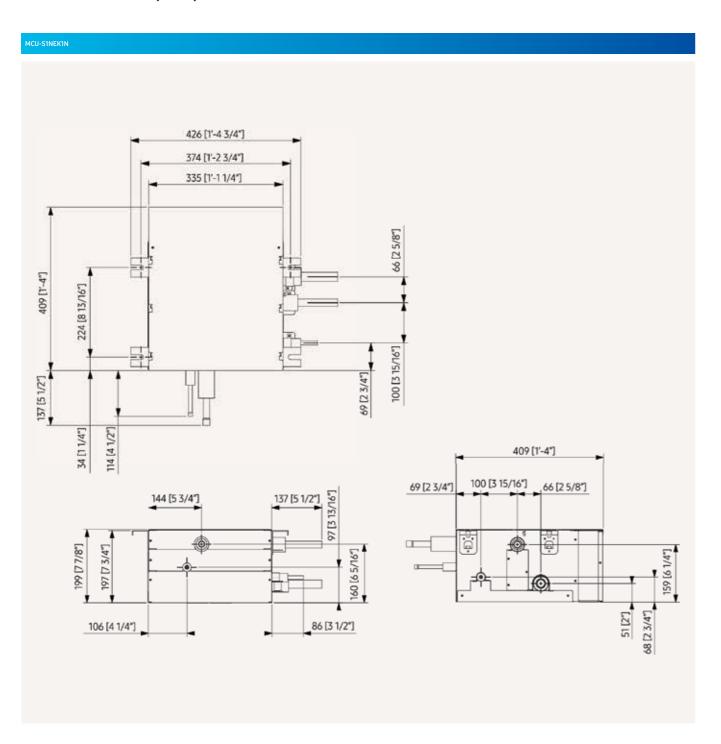
	Model			MCU-S1NEK1N	MCU-S2NEK2N	MCU-S4NEK3N	MCU-S6NEK2N	
PowerSupply Φ, #, V, Hz				1ф, 2, 220-240 V, 50 Hz, 1ф, 2, 208-230 V, 60 Hz				
Power	Power Input (Nominal)	Cooling	W	19	25	40	55	
		Heating	W	19	25	40	55	
	Current Input (Nominal)	Cooling	Α	0.20	0.20	0.20	0.30	
		Heating	Α	0.20	0.20	0.20	0.30	
	MCA		Α	2.0	2.0	2.0	2.0	
	MFA (MOP)		Α	15.0	15.0	15.0	15.0	
Max. number of connectable indoor units			ea	8	16	32	32	
Max. number of connectable indoor units per branch			ea	8	8	8	8	
Number of branches			ea	1	2	4	6	
Max. capacity of connectable indoor units			kW	16.0	32.0	61.6	61.6	
Max. capacity of			kW	16.0	16.0	16.0	16.0	
connectable indoor units per branch		Y-Joint	kW	-	32.0	32.0	32.0	
ield Wiring	Power Source Wire		mm²	2.5	2.5	2.5	2.5	
	Transmission Cable		mm²	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	
Sound Pressure	Stable Cooling Operation		dB(A)	33	34	36	36	
	Heating-to-Cooling Changeove	er	-	50	50	50	50	
Additional Refrigerant Charging			kg/unit	0.5	0.5	0.5	0.5	
Piping Connections	Outdoor Unit	Liquid Pipe	ø, mm	9.52	15.88	15.88	15.88	
			ø, inch	3/8	5/8	5/8	5/8	
		Gas Pipe	ø, mm	22.22	28.58	28.58	28.58	
			ø, inch	7/8	11/8	11/8	11/8	
		Discharge Gas	ø, mm	19.05	28.58	28.58	28.58	
			ø, inch	3/8	11/8	11/8	11/8	
	Indoor Unit	Liquid Pipe	ø, mm	9.52	9.52	9.52	9.52	
			ø, inch	3/8	3/8	3/8	3/8	
		Gas Pipe	ø, mm	15.88	15.88	15.88	15.88	
			ø, inch	5/8	5/8	5/8	5/8	
External Dimensions	Net Weight		kg	11.0	21.0	24.5	28.5	
	Net Dimensions (W x H x D)		mm	338 x 409 x 199	728 x 469 x 199	728 x 469 x 199	728 x 469 x 199	
Operation Limit	Cooling		°C (°F)	-15~48 (5~118.4)	-15~48 (5~118.4)	-15~48 (5~118.4)	-15~48 (5~118.4)	
	Heating		°C (°F)	-25~24 (-13~75.2)	-25~24 (-13~75.2)	-25~24 (-13~75.2)	-25~24 (-13~75.2	

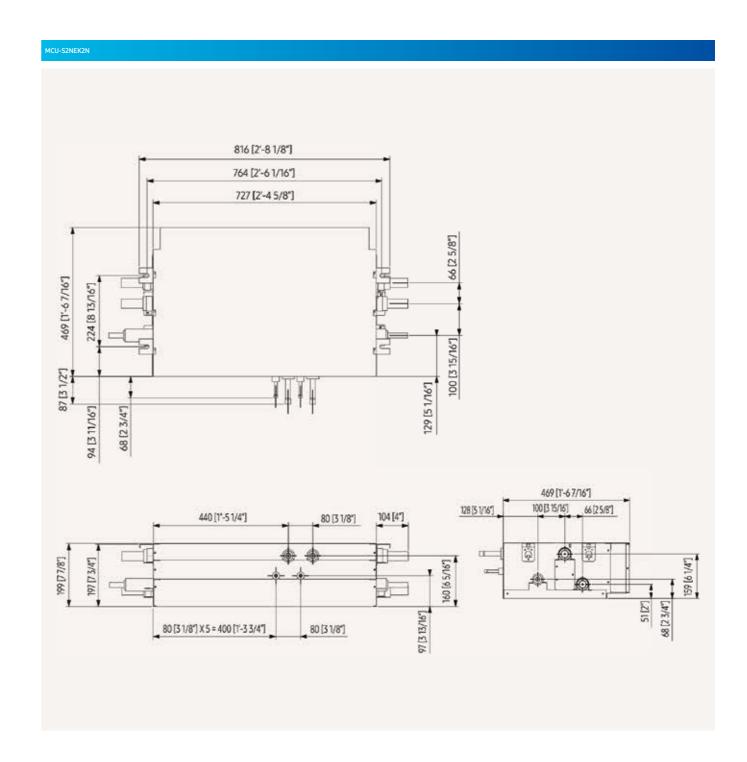
Mode Control Unit (MCU)



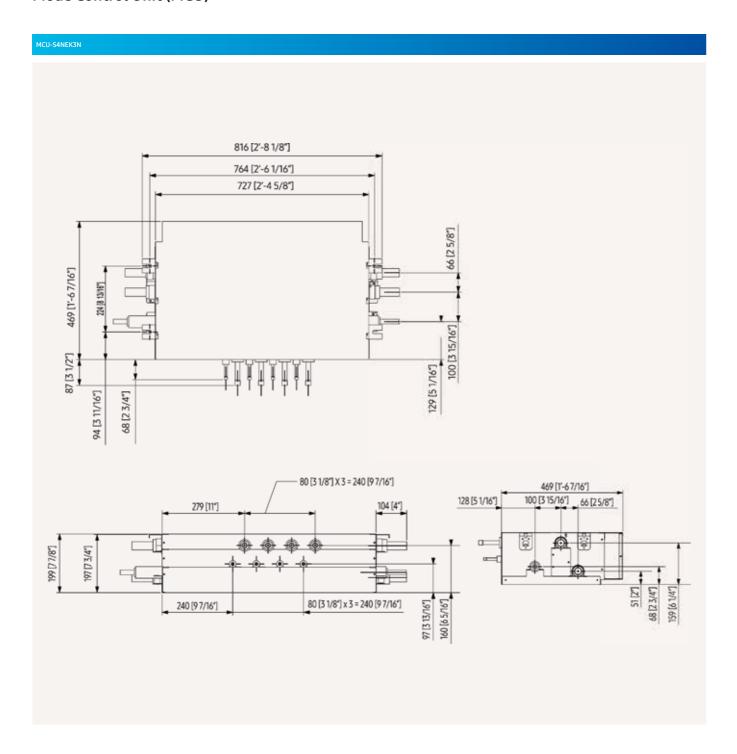


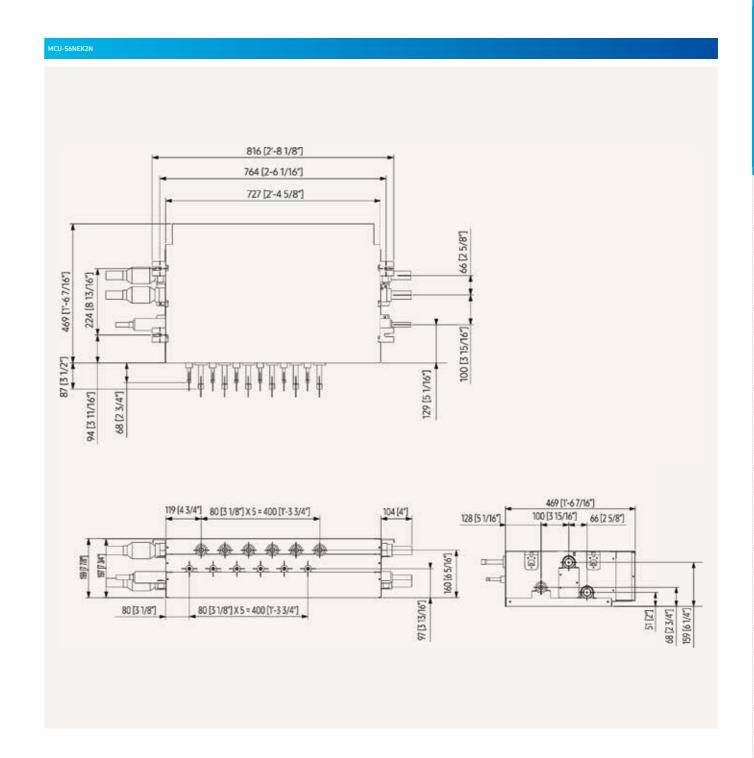
Mode Control Unit (MCU)





Mode Control Unit (MCU)





AHU Kit for Outdoor Unit

- Provide the benefits of the AHU and DVM systems at the same time.
 Centralised air conditioning system.
 The AHU kit can provide cooling or heating in one package.







Model			AHU Kit			
	Model			MXD-K025AN	MXD-K050AN	MXD-K075AN
onnectable Outdoor				HP/HR	HP/HR	HP/HR
ower Supply			Φ, #, V, Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz
esign	AHU Capacity Allowance	Max.	kW	8.8	17.5	24.9
ecommendation			МВН	30	60	85
		Min.	kW	6.3	12.6	18.9
			MBH	21.6	43.2	64.8
	AHU Internal Heat Exchanger	Max.	cm³	2,000	4,000	6,000
	Volume Allowance	Min.	cm³	1,200	2,400	4,100
oing Connections	High pressure pipe from outdoor unit		ø, mm	9.52	9.52	9.52
High pressure pipe to AHU		ø, inch	3/8	3/8	3/8	
		ø, mm	9.52	9.52	9.52	
			ø, inch	3/8	3/8	3/8
ensor EVA. IN			Туре/Ф	103HW/6Φ	103HW/6Φ	103HW/6Φ
			m/mm²	10 m/2*0.75 mm ²	10 m/2*0.75 mm ²	10 m/2*0.75 mm ²
	EVA. OUT		Туре/Ф	103HW/7Φ	103HW/7Φ	103HW/7Φ
			m/mm²	10 m/2*0.75 mm ²	10 m/2*0.75 mm ²	10 m/2*0.75 mm ²
	Room	Room		103HW/Moulding	103HW/Moulding	103HW/Moulding
			m/mm²	10 m/2*0.75 mm ²	10 m/2*0.75 mm ²	10 m/2*0.75 mm ²
	Discharge		Туре/Ф	103HW/7Φ	103HW/7Φ	103HW/7Φ
			m/mm²	10 m/2*0.75 mm ²	10 m/2*0.75 mm ²	10 m/2*0.75 mm ²
frigerant	Туре		-	R410.	A(Fluorinated greenhouse gas, GWP=2	2,088)
V Kit	Туре		-	INCLUDED	INCLUDED	INCLUDED
	EEV Wire Length		m	2	2	7
			ft	6.6	6.6	23.0
ternal Dimensions	EEV Kit	(W x H x D)	mm	415 x 102 x 170	415 x 102 x 170	415 x 102 x 170
	Control Box	(W x H x D)	mm	380 x 130 x 280	380 x 130 x 280	380 x 130 x 280







	M		
AHU Kit	Control Kit	EEV Kit (Optional)	
MXD-K100AN	MCM-D201N	MXD-A64K100E	
HP/HR	HP	НР	
1Ф, 2, 220-240 V, 50/60 Hz	10, 2, 220-240 V, 50/60 Hz	-	
35.0	35.0/70.0/105.0/140.0	35.0	
120	119/239/358/478	119	
25.2	25.2/50.4/75.6/100.8	25.2	
86.4	86.4/172.8/259.2/345.6	86.4	
8,000	8,000/16,000/24,000/32,000	8,000	
6,100	6,100/12,200/18,300/24,400	6,100	
9.52	-	12.70	
3/8	-	1/2	
9.52	-	12.70	
3/8	-	1/2	
103HW/6Φ	103HW/6Φ	-	
10 m/2*0.75 mm ²	7 m/2*0.75 mm ²	-	
103HW/7Φ	103HW/7Φ	-	
10 m/2*0.75 mm ²	7 m/2*0.75 mm ²	-	
103HW/Moulding	PT1000Ω/4~20 mA Field Supply	-	
10 m/2*0.75 mm ²	-	-	
103HW/7Φ	PT1000Ω/4~20 mA Field Supply	-	
10 m/2*0.75 mm ²	-	-	
R41	OA(Fluorinated greenhouse gas, GWP=	2,088)	
INCLUDED	NOTINCLUDED	-	
7	-	7	
23.0	-	23.0	
415 x 102 x 170	-	Accessory for MCM-D201N, ordere separately (1 per 10HP)	
380 x 130 x 280	385 x 53 x 275	-	



Line-up outdoor

Model Type Image 42 kW 56 kW 65 kW Non-Pump Model AG042KSVANH/EU AG056KSVANH/EU AG070KSVANH/EU

Combining modules allows each product to work at high capacity. You can combine up to 16 modules.

Combination guide - outdoor

Modulation guide

Total Capacity		Model		Suggested ø water type
(kW)	AG042	AG056	AG070	controller piping
42	1			40
56		1		40
65			1	50
84	2			50
112		2		65
126	3			65
130			2	80
168		3		80
168 (high efficiency)	4			80
195			3	80
210	5			80
224		4		100
252	6			100
260			4	100
280		5		100
294	7			100
325			5	100
336		6		100
336 (high efficiency)	8			100
378	9			100
390			6	100
392		7		100
420	10			100
448		8		125

Total Capacity		Model		Suggested ø water type
(kW)	AG042	AG056	AG070	controller piping
455			7	125
462	11			125
504		9		125
504 (high efficiency)	12			125
520			8	125
546	13			125
560		10		125
585			9	125
588	14			125
616		11		125
630	15			125
650			10	125
672		12		125
672 (high efficiency)	16			125
715			11	150
728		13		125
780			12	150
784		14		150
840		15		150
845			13	150
896		16		150
910			14	150
975			15	150
1,040			16	150

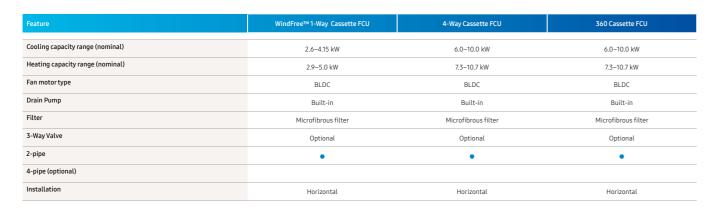
Line-up indoor

Image	1.9 kW	2.6 kW	3.0 kW	4.2 kW	6.0 kW	7.2 kW	7.8 kW	9.0 kW	10.0 kW
		•	•	•					
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Selection guide

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Concealed and Cased

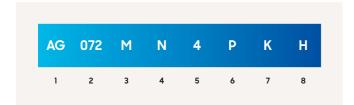




Feature	Concealed FCU	Cased FCU
Cooling capacity range (nominal)	1.9-7.8 kW	1.9–7.8 kW
Heating capacity range (nominal)	2.1-8.4 kW	2.1-8.4 kW
Fan motor type	3-step AC	3-step AC
Drain Pump	Optional	Optional
Filter	Polypropylene washable	Polypropylene washable
3-Way Valve	Built-in	Built-in
2-pipe	•	•
4-pipe (optional)	•	•
Installation	Horizontal/vertical	Horizontal/vertical

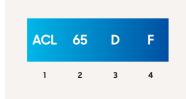
Nomenclature

Indoor units



1	Classification	AG	Chiller/Fan Coil Unit (FCU)
	Capacity		x1/10 kW (3 digits)
		К	2016
	Version	М	2017
	version	N	2018
		Т	2020
	Product Type	N	Indoor Unit
	Product Notation	1	WindFree™ 1-Way Cassette
	Product Notation	4	4-Way Cassette, 360 Cassette
6	Feature	D	Deluxe
ď	reature	Р	Premium
	Voltage Rating	К	1Ф, 220~240 V, 50/60 Hz
	Mode	Н	Heat Pump

Indoor units (third party)



	Classification	ACL Chiller/Fan Coil Unit (FCU)					
	Capacity	x1/10 kW (3 digits)					
		D	2-Pipe FCU				
	Product Notation 4 Product Type	Q	4-Pipe FCU				
		Α	Accessory				
		F	Concealed				
4		G	Cased				

Outdoor units



1	Classification	AG	AG Chiller (HVM Chiller)			
	Capacity		kW (3 digits)			
	3 Version	К	2016			
		М	2017			
		N	2018			
	Product Type	S	SET HVM Chiller			
	Product Notation	V	Inverter			
	Feature	Α	Non-pump			
	Voltage Rating	N	3Ф, 380~415 V, 50/60 Hz			
8	Mode	Н	Heat Pump			



HVM Chiller

- Air-cooled HVM Chiller Heat Pump.
 Option of connecting up to 16 modules for a total capacity of more than 1 MW.
 Capacity modulation between 15% and 100%.
- Each unit houses 2 Inverter Scroll compressors, all equipped with Flash Injection technology.





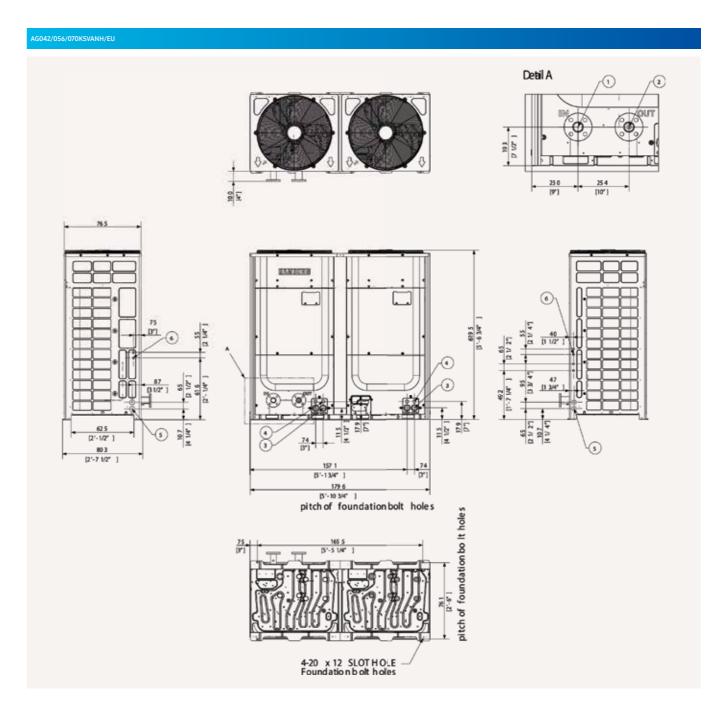


				12 Oc. 17	The State of the S	THE OWNER OF THE OWNER OF
	Model			AG042KSVANH/EU	AG056KSVANH/EU	AG070KSVANH/EU
Power Supply			Ф, #, V, Hz	3Ф, 4, 380-415 V, 50/60 Hz	3Ф, 4, 380-415 V, 50/60 Hz	30, 4, 380-415 V, 50/60 Hz
Performance	Capacity (Nominal)	Cooling	kW	42	56	65
		Heating	kW	42.0	56.0	69.5
Power	Power Input (Nominal)	Cooling	kW	12.35	18.67	26.00
		Heating	kW	11.83	17.50	24.39
	Current Input (Nominal)	Cooling	Α	19.6	29.6	41.2
		Heating	Α	18.8	27.8	38.7
	Current	MCA	Α	32	46	58
		MFA	A	40	60	75
Efficiency	EER Nominal Cooling (pump input is no	t included)	W/W	3.4	3.0	2.5
	COP Nominal Heating (pump input is no	ot included)	W/W	3.55	3.20	2.85
	ESEER (Pump input is not included)		W/W	5.7	5.4	5.0
Fan	Туре		-	Axial Fan	Axial Fan	Axial Fan
	Number of Fans		-	2	2	2
	Airflow Rate		m³/min	364 (182 x 2)	364 (182 x 2)	392 (196 x 2)
			l/s	6,067	6,067	6,535
	External Static Pressure	Max.	mmAq	8.00	8.00	8.00
			Pa	78.5	78.5	78.5
Fan Motor	Type Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	630 x 2	630 x 2	630 x 2
Water Side Heat Exchanger	Туре		-	Brazing Plate	Brazing Plate	Brazing Plate
	Water Flow Rate (Cooling/Heating)		l/min	120/120	160/160	186/200
	Pressure Drop (Set. Nominal)		kPa	60	100	120
	Max. Operating Pressure		MPa	1	1	1
	Connection Type		-	FLANGE	FLANGE	FLANGE
	Pipe Connection (Inlet/Outlet)		ø, mm	40	40	50
			ø, inch	11/2	11/2	2
	Quantity		-	2	2	2
Wiring Connections	Communication	Min.	mm²	0.75	0.75	0.75
		Remark		F1, F2	F1, F2	F1, F2
Refrigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2,	088)
	Factory Charging		kg/tCO ₂ e	18/37.58	18/37.58	18/37.58
Sound 2	Sound Pressure	Cooling	dB(A)	60	62	63
		Heating	dB(A)	57	59	64
	Sound Power		dB(A)	80	83	85
External Dimensions	Net Weight		kg	446.0	446.0	465.0
	Net Dimensions (W x H x D)		mm	1,795 x 1,695 x 765	1,795 x 1,695 x 765	1,795 x 1,695 x 765
Operating Water	Cooling		°C	5.0~25.0	5.0~25.0	5.0~25.0
Temperature Range	Cooling (if using brine)		°C	-10.0~25.0	-10.0~25.0	-10.0~25.0
	Heating		°C	25.0~55.0	25.0~55.0	25.0~55.0
Operating Water Flow	Water Flow Rate		l/min	60~240	80~320	93~400
Range	Minimum Water Storage in the System		L	294	392	490
Operating Ambient	Cooling		°C	-15.0~48.0	-15.0~48.0	-15.0~48.0
Temperature Range	Heating		°C	-25.0~43.0	-25.0~43.0	-25.0~43.0

Accessories Accessories									
	=		-		<u></u>		11 1111		
Module Controller	DMS2.5	BACnet Gateway	Touch Centralised Controller	On/Off controller	PIM Module (Pulse Interface Module	LonWorks Gateway	External Contact Interface Module		
MCM-A00N	MIM-D01AN	MIM-B17BN	MCM-A300N	MCM-A202DN	MIM-B16N	MIM-B18BN	MIM-B14		

Dimensional drawings

HVM Chiller



NO	Name	Description				
	Inlet water flange	15/20 hp 40A Din Flange, 25 hp: 50A Din Flange				
	Outlet water flange	15/20 hp 40A Din Flange, 25 hp: 50A Din Flange				
	Power wiring conduits	Knock-out hole (front)				
	Communication wiring conduits	Knock-out hole (front)				
	Power wiring conduits	Knock-out hole (side)				
	Communication wiring conduits	Knock-out hole (side)				

WindFree™ 1-Way Cassette FCU

- One-way air supply by means of a 100 mm wide blade
 Cross-flow fan direct driven by a BLDC motor
 Built-in condensation drain pump

- Optional 3-Way valve kit
 Available in WindFree™ function

Compatible with Wi-Fi Kit controller.







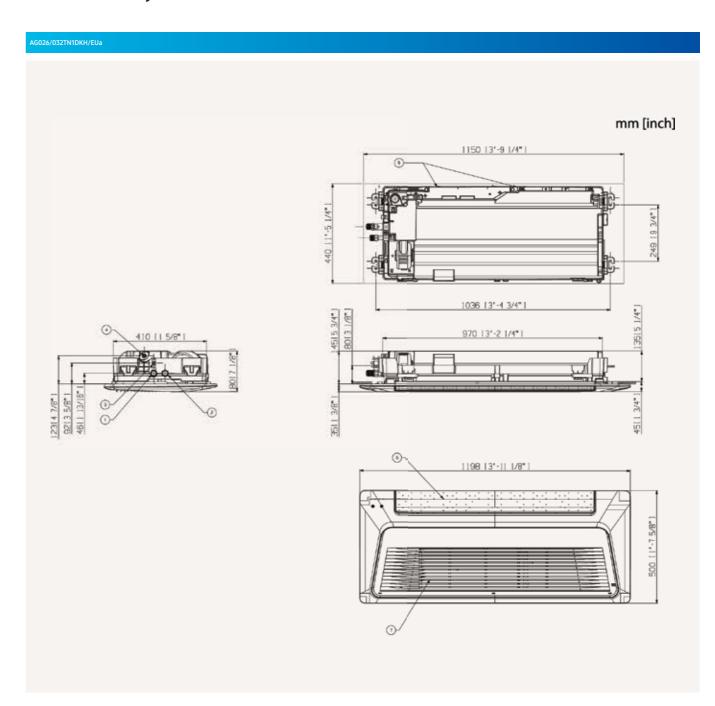
	Model			AG026TN1DKH/EU	AG032TN1DKH/EU	AG042TN1DKH/EU
Power Supply			Ф, V, Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz
Mode			-	HP	HP	HP
Performance	Capacity (Nominal)	oling	kW	2.60	3.00	4.20
	Hea	ating	kW	2.90	3.40	5.00
Power	Power Input (Nominal) Cod	oling	W	27	35	55
	Hea	ating	W	27	35	55
	Current Input (Nominal) Cod	oling	A	0.14	0.19	0.29
	Hea	ating	Α	0.14	0.19	0.29
Heat Exchanger	Туре		-	Fin & tube	Fin & tube	Fin & tube
Fan	Туре		-	Crossflow fan	Crossflow fan	Crossflow fan
	Number of Fans		ea	1	1	1
	Airflow Rate H/M	M/L	m³/min	6.8/5.8/4.9	7.8/6.8/5.8	14.6/12.6/10.7
Fan Motor	Туре		-	BLDC	BLDC	BLDC
	Output x n		W	27 x 1	27 x 1	65 x 1
W P	Water Flow Rate Coo	oling	l/min	7.5	9.6	11.9
	Water Flow Rate Hea	ating	l/min	8.4	9.7	14.4
	Pressure Drop Coo	oling	kPa	23.0	34.5	45.0
	Pressure Drop Hea	ating	kPa	28.0	35.8	64.6
Piping Connections	Liquid Pipe (IN)		Туре	PF MALE	PF MALE	PF MALE
			ø, mm (inch)	20A (3/4")	20A (3/4")	20A (3/4")
	Liquid Pipe (OUT)		Туре	PF MALE	PF MALE	PF MALE
			ø, mm (inch)	20A (3/4")	20A (3/4")	20A (3/4")
	Heat Insulation		-	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/outlet pipes
	Drain Pipe		ø, mm	VP20 (OD 26, ID 20)	VP20 (OD 26, ID 20)	VP25 (OD 32, ID 25)
Sound	Sound Pressure ¹ (H/	/M/L)	dB(A)	33/31/29	38/35/31	40/37/33
	Sound Power Coo	oling	dB(A)	50	53	59
Dimensions	Net Weight		kg	10.1	10.1	14.0
	Net Dimensions (W × H × D)		mm	970 × 135 × 410	970 × 135 × 410	1,200 × 138 × 450
Casing	Material		-	Plastic	Plastic	Plastic
Panel	Panel Model		-	PC1NWFMBN(WindFree™)	PC1NWFMBN(WindFree™)	PC1BWFMBN(WindFree™)
Additional	Drain Pump Typ	pe	-	Built-in	Built-in	Built-in
Accessories		x. Lifting Height/ splacement	mm/(cc/ min)	750/400	750/400	750/400
	3-Way Valve Kit (optional)		-	ACL-A60V3	ACL-A60V3	ACL-A60V3
	Filter		_			

	Accessories								
, prime	-		LAMESON	899	200 200 200	73-700 (B) - 44 (B) - 44 (B) - 45 (B) -	p (2) %		
Panel WindFree™ (optional)	Panel WindFree™ (optional)	FCU Interface Module	Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller		
PC1NWFMBN	PC1BWFMBN	MIM-F10N	AR-EH03E	MWR-SH00N	MWR-SH11N	MWR-WG00*N	MWR-WG00*N		

Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications may be subject to change without prior notice. Select wire size based on the Minimum Circuit Ampacity (MCA) value.

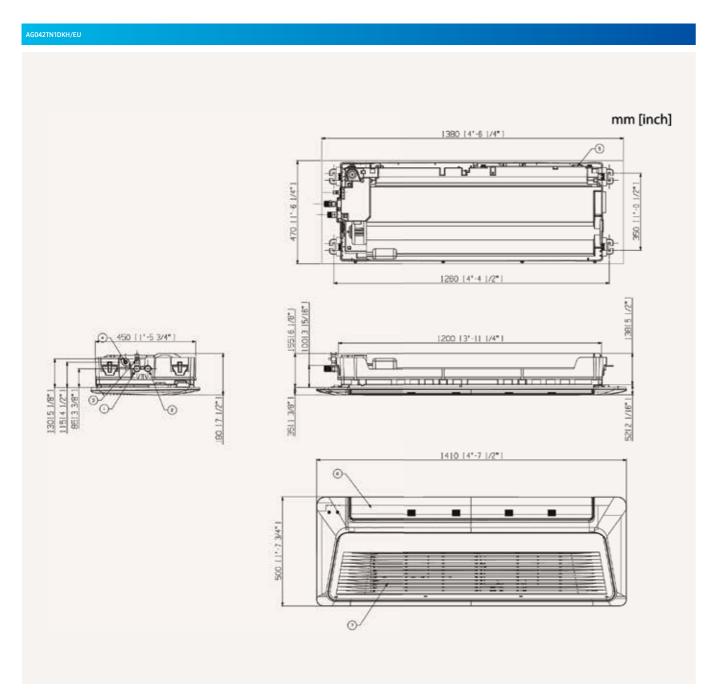
Dimensional drawings

WindFree™ 1-Way Cassette FCU



NO	Name	Description
1	Water pipe connection out	PF Male 3/4" (20A)
2	Water pipe connection in	PF Male 3/4" (20A)
3	Airvent valve	
4	Drain hose	VP20 (OD 26, ID 20)
5	Power supply/communication wiring conduits	
6	Air discharge part	
7	Air suction part	

WindFree™ 1-Way Cassette FCU



NO	Name	Description
1	Water pipe connection out	PF Male 3/4" (20A)
2	Water pipe connection in	PF Male 3/4" (20A)
3	Air vent valve	
4	Drain hose	VP25 (OD 32, ID 25)
5	Power supply/communication wiring conduits	
6	Air discharge part	
7	Air suction part	



4-Way Cassette FCU

- Four-way air supply via independently adjustable blades.
- Direct drive fan powered by a BLDC motor.
 Built-in condensation drain pump.
- Optional 3-Way valve kit.

- Compatible with Wi-Fi Kit controller.



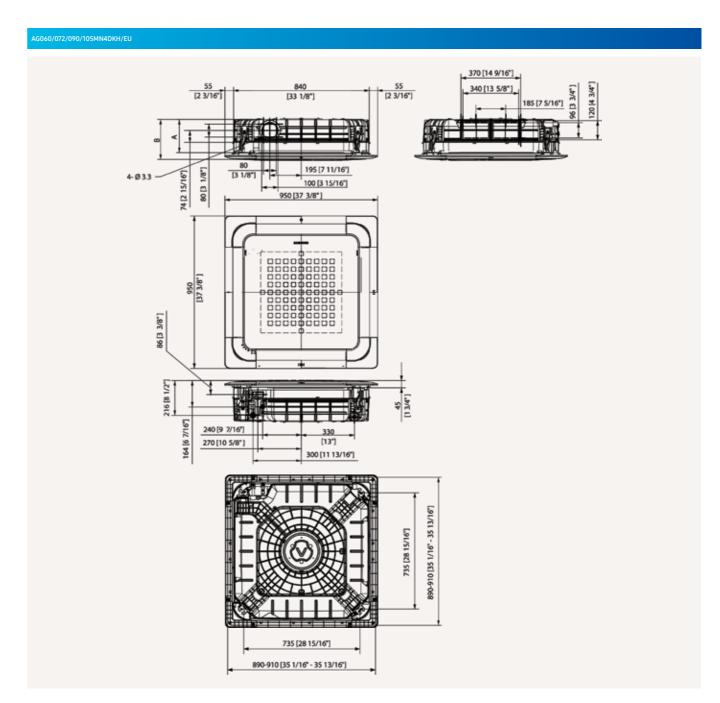
	Model			AG060MN4DKH/EU	AG072MN4DKH/EU	AG090MN4DKH/EU	AG105MN4DKH/EU
Power Supply			Ф, V, Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220-240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz
Mode			-	HP	HP	HP	HP
Performance	Capacity (Nominal)	Cooling	kW	6.0	7.2	9.0	10.0
		Heating	kW	7.3	8.5	10.0	10.7
Power	Power Input (Nominal)	Cooling	W	50	73	82	99
		Heating	W	50	73	82	99
	Current Input (Nominal)	Cooling	A	0.37	0.50	0.58	0.79
		Heating	Α	0.37	0.5	0.58	0.79
Fan	Туре		-	Fin & tube	Fin & tube	Fin & tube	Fin & tube
	Туре		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Number of Fans		-	1	1	1	1
	Airflow Rate	H/M/L	m³/min	18.9/16.5/13.6	21.3/18.2/13.6	23.3/21.3/19.4	30.1/26.2/19.4
Fan Motor	Туре		-	BLDC	BLDC	BLDC	BLDC
	Output x n		W	65 x 1	65 x 1	65 x 1	97 x 1
Water	Water Flow Rate	Cooling	l/min	17.5	20.8	26.0	28.9
	Water Flow Rate	Heating	l/min	21.1	24.5	28.9	30.9
	Pressure Drop	Cooling	kPa	27.0	36.0	46.8	56.3
	Pressure Drop	Heating	kPa	37.3	48.6	56.3	63.4
Piping Connections	Liquid Pipe (IN)		Туре	PF MALE	PF MALE	PF MALE	PF MALE
			ø, mm (inch)	20A (3/4)	20A (3/4)	20A (3/4)	20A (3/4)
	Liquid Pipe (OUT)		Туре	PF MALE	PF MALE	PF MALE	PF MALE
			ø, mm (inch)	20A (3/4)	20A (3/4)	20A (3/4)	20A (3/4)
	Heat Insulation		-	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/outlet pipes
	Drain Pipe		ø, mm	VP25 (OD 32, ID 25)			
Sound	Sound Pressure	(H/M/L)	dB(A)	37/33/30	41/35/30	42/38/35	45/40/35
	Sound Power	Cooling	dB(A)	56	60	58	60
Dimensions	Net Weight		kg	15.5	15.5	18.0	18.0
	Net Dimensions (W × H × D)		mm	840 x 204 x 840	840 x 204 x 840	840 × 246 × 840	840 × 246 × 840
Panel	Panel Model		-	PC4NUSKAN PC4NUSKEN	PC4NUSKAN PC4NUSKEN	PC4NUSKAN PC4NUSKEN	PC4NUSKAN PC4NUSKEN
Additional Accessories	Drain Pump	Туре	-	Built-in	Built-in	Built-in	Built-in
Accessories		Max. Lifting Height/ Displacement	mm/(cc/ min)	750/400	750/400	750/400	750/400
	3-Way Valve Kit (optional)			ACL-A60V3	ACL-A60V3	ACL-A60V3	ACL-A60V3
	Filter		-	Microfibrous filter	Microfibrous filter	Microfibrous filter	Microfibrous filter

Accessories								
			895 185		76-20 四年-64 四年-64 20-7-13 20-7-13 20-7-13	= (4) *	T.S	
Panel 4-W Waffle (Optional)	Panel 4-W Classic (Optional)	FCU Interface Module	Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	SPI Kit (optional)	
PC4NUSKAN	PC4NUSKEN	MIM-F10N	AR-EH03E	MWR-SH00N	MWR-SH11N	MWR-WG00*N	MSD-CAN1	

Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications may be subject to change without prior notice. Select wire size based on the Minimum Circuit Ampacity (MCA) value.

Dimensional drawings

4-Way Cassette FCU



Pos.	Name	Description		
Model	AG060MN4DKH/EU	AG090MN4DKH/EU		
	AG072MN4DKH/EU	AG105MN4DKH/EU		
	204 [81/16]	246 [9 11/16]		
A	253 [915/16]	295 [11 5/8]		
A	205	289		
Pipe connection	PF 3/4	4 Male		
Drain pipe connection	VP25 (OD	32, ID 25)		

360 Cassette FCU

- 360 degree air supply.
 Bladeless discharge. Booster fans can be individually controlled, allowing for completely horizontal flow discharge. Coanda effect is created even
- 3-Way valve kit (optional)Compatible with Wi-Fi Kit controller.

- Built-in condensation drain pump.Predisposition of the air inlet to let fresh air in.
- Circular or square cassette panel.
- Optional Motion Detect Sensor









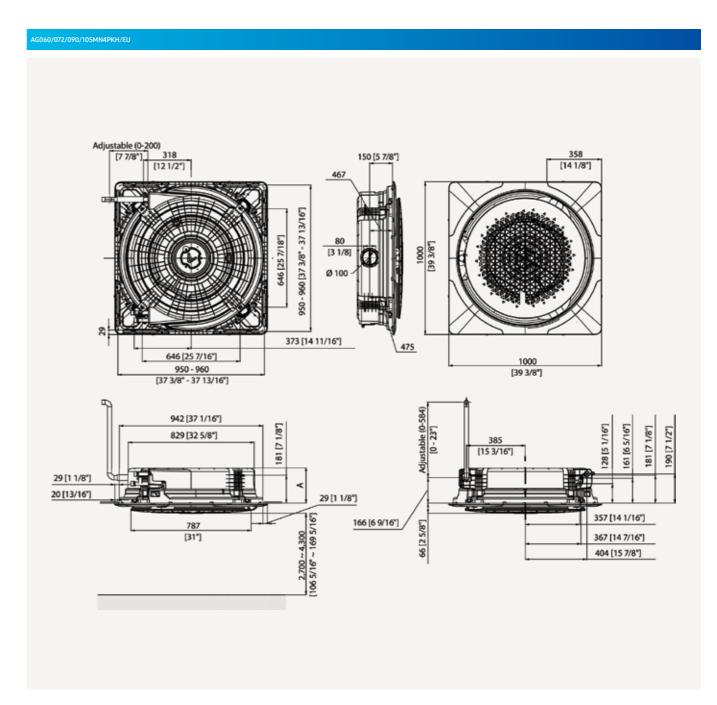
	Model			AG060MN4PKH/EU	AG072MN4PKH/EU	AG090MN4PKH/EU	AG105MN4PKH/EU
Power Supply			Ф, V, Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz
Mode			-	HP	HP	HP	HP
Performance	Capacity (Nominal)	Cooling	kW	6.0	7.2	9.0	10.0
		Heating	kW	7.3	8.5	10.0	10.7
Power	PowerInput (Nominal)	Cooling	W	58	58	77	100
		Heating	W	58	58	77	100
	Current Input (Nominal)	Cooling	Α	0.50	0.50	0.62	0.79
		Heating	Α	0.50	0.50	0.62	0.79
Heat Exchanger	Туре		-	Fin & tube	Fin & tube	Fin & tube	Fin & tube
Fan	Туре		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Number of Fans		ea	1	1	1	1
	Airflow Rate	H/M/L	m³/min	21.0/17.5/15.0	25.5/22.0/19.8	29.5/24.0/19.8	31.5/22.5/19.8
Fan Motor	Туре		-	BLDC	BLDC	BLDC	BLDC
	Output x n		W	65 x 1	97 x 1	97 x 1	97 x 1
Water	Water Flow Rate	Cooling	l/min	17.5	20.8	26.0	28.9
	Water Flow Rate	Heating	l/min	21.1	24.5	28.9	30.9
	Pressure Drop	Cooling	kPa	27.0	26.0	38.5	47.4
	Pressure Drop	Heating	kPa	37.6	35.6	47.4	53.2
Piping Connections	Liquid Pipe (IN)		Туре	PF MALE	PF MALE	PF MALE	PF MALE
			ø, mm (inch)	20A (3/4)	20A (3/4)	20A (3/4)	20A (3/4)
	Liquid Pipe (OUT)		Туре	PF MALE	PF MALE	PF MALE	PF MALE
			ø, mm (inch)	20A (3/4)	20A (3/4)	20A (3/4)	20A (3/4)
	Heat Insulation		-	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/outlet pipes
	Drain Pipe		ø, mm	VP25 (OD 32, ID 25)			
Sound	Sound Pressure	(H/M/L)	dB(A)	40/37/32	39/35/33	43/38/33	45/39/33
	Sound Power	Cooling	dB(A)	57	58	60	62
Dimensions	Net Weight		kg	21.0	25.0	25.0	25.0
	Net Dimensions (W × H × D)		mm	947 x 281 x 947	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
Casing	Material		-	-	-	-	-
Panel	Panel Model		White	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
				PC4NUNMAN	PC4NUNMAN	PC4NUNMAN	PC4NUNMAN
			Black	PC4NBDMAN	PC4NBDMAN	PC4NBDMAN	PC4NBDMAN
				PC4NBNMAN	PC4NBNMAN	PC4NBNMAN	PC4NBNMAN
Additional	Drain Pump	Туре	-	Built-in	Built-in	Built-in	Built-in
Accessories		Max. Lifting Height/ Displacement	mm/(cc/ min)	750/400	750/400	750/400	750/400
		3-Way Valve Kit	(optional)	ACL-A60V3	ACL-A60V3	ACL-A60V3	ACL-A60V3
	Filter		-	Microfibrous filter	Microfibrous filter	Microfibrous filter	Microfibrous filter

Accessories										
					895	26-200 四年前 25-201	F 127 *	895	TIS.	
Panel (Optional)	Panel (Optional)	Panel (Optional)	Panel (Optional)	FCU Interface Module	Wireless Remote Controller	Touch Controller	Wired Remote Controller	Simple Type Controller	SPI Kit (optional)	Motion Detect Sensor
PC4NBDMAN	PC4NBNMAN	PC4NUDMAN	PC4NUNMAN	MIM-F10N	AR-EH03E	MWR-SH11N	MWR-WG00*N	MWR-SH00N	MSD-CAN1	MCR-SME

Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications may be subject to change without prior notice. Select wire size based on the Minimum Circuit Ampacity (MCA) value.

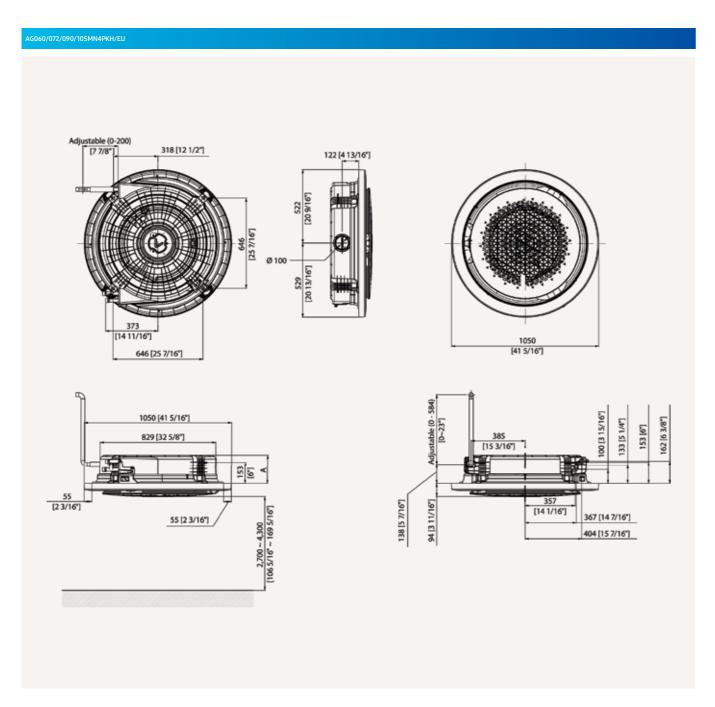
Dimensional drawings

360 Cassette FCU



Pos.	A Type	В Туре
Model		AG072MN4PKH/EU
	AG060MN4PKH/EU	AG090MN4PKH/EU
		AG105MN4PKH/EU
A	233 [9 3/16] 317 [12 1/2]	
Pipe connection	PF 3/4 Male	
Drain pipe connection	VP25 (OD	32, ID 25)

360 Cassette FCU



Pos.	A Type	В Туре	
Model		AG072MN4PKH/EU	
	AG060MN4PKH/EU	AG090MN4PKH/EU	
		AG105MN4PKH/EU	
A	205	289	
Pipe connection	PF 3/4 Male		
Drain pipe connection	VP25 (OD 32, ID 25)		



Concealed FCU

- Plug & play solution in combination with HVM Chiller.
 Optional vertical or horizontal installation
 3-Way valve kit included as standard.

- FCU kit included as standard.

- Optional drain pipe.
 Optional heating coil 4-pipe.
 Optional 3-way valve kit 4-pipe.
 Auxilary Drain Pan vertical/horizontal







		Model		ACL-18DF	ACL-25DF	ACL-35DF
ower Supply			Ф, V, Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz
lode			-	HP	HP	HP
erformance Capacity (Nominal)		Cooling (H/M/L)	kW	1.91/1.66/1.34	2.87/2.34/1.73	4.24/3.20/2.47
	(Nominal)	Heating (H/M/L)	kW	2.15/1.81/1.50	2.91/2.35/1.73	4.24/3.24/2.47
ower PowerInput		Cooling (H/M/L)	W	53/36/24	56/43/29	90/50/40
	(Nominal)	Heating (H/M/L)	W	53/36/24	56/43/29	90/50/40
	Current Input	Cooling	Α	0.26	0.28	0.45
	(Nominal)	Heating	Α	0.26	0.28	0.45
eat Exchanger	Туре		-	Fin & tube	Fin & tube	Fin & tube
an	Туре		-	Double suction centrifugal fan	Double suction centrifugal fan	Double suction centrifugal fa
	Number of Fans		ea	2	2	2
	Airflow Rate	H/M/L	m³/min	5.7/4.5/3.5	7.6/5.7/4.0	11.7/8.3/6.0
an Motor	Туре		-	3-step AC	3-step AC	3-step AC
	Output x n		W	53/36/24	56/43/29	90/50/40
/ater	Water Flow Rate	Cooling	l/min	5.6	8.4	12.4
		Heating	l/min	6.2	8.4	12.4
	Pressure Drop	Cooling	kPa	17	24	35
11033		Heating	kPa	20	24	35
iping Connections	Liquid Pipe (IN)	Type	_	Female	Female	Female
		Dimension	ø, mm (inch)	1/2	1/2	1/2
	Liquid Pipe	Туре	-	Female	Female	Female
	(OUT)	Dimension	ø, mm (inch)	1/2	1/2	1/2
	Heat Insulation		-	-	-	-
	Drain Pipe		ø, mm			
ound	Sound Pressure	(H/M/L)	dB(A)	42/36/32	40/34/28	45/35/27
Juna	Sound Power	(H/M/L)	dB(A)	50/44/40	48/42/36	53/43/35
imensions	Net Weight	(11/1-1/2)	kg	18.0	23.0	27.0
	Net Dimensions (\	N×H×D)	mm	725 x 224 x 535	935 x 224 x 535	1,145 x 224 x 535
asing	Material		-	-	-	-
anel	Panel Model		_	-	-	
dditional	Drain Pump	Туре	optional	ACL-ADP	ACL-ADP	ACL-ADP
ccessories	S.diii i diiip	Max. Lifting Height/Displacement	mm/			
		and height pispucement	(cc/min)	750/133	750/133	750/133
	Heating Coil	4-pipe	optional	ACL-A018HC	ACL-A025HC	ACL-A035HC
	3-Way Valve	4-pipe	optional	ACL-A018V3	ACL-A018V3	ACL-A018V3
	Auxiliary	Vertical	optional	ACL-ADV	ACL-ADV	ACL-ADV
	Drain Pan	Horizontal	optional	ACL-ADH	ACL-ADH	ACL-ADH
	Filter			Polypropylene washable	Polypropylene washable	Polypropylene washable

		Accessories		
	Lawrence	20 20 0 20 20 0 20 20 0 20 20 0 20 20 0	- 6.2	898 162
FCU Interface Module	FCU Kit	Touch Controller	Wired Remote Controller	Simple Type Controller
MIM-F10N	MIM-F00N	MWR-SH11N	MWR-WG00*N	MWR-SH00N

Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications may be subject to change without prior notice.

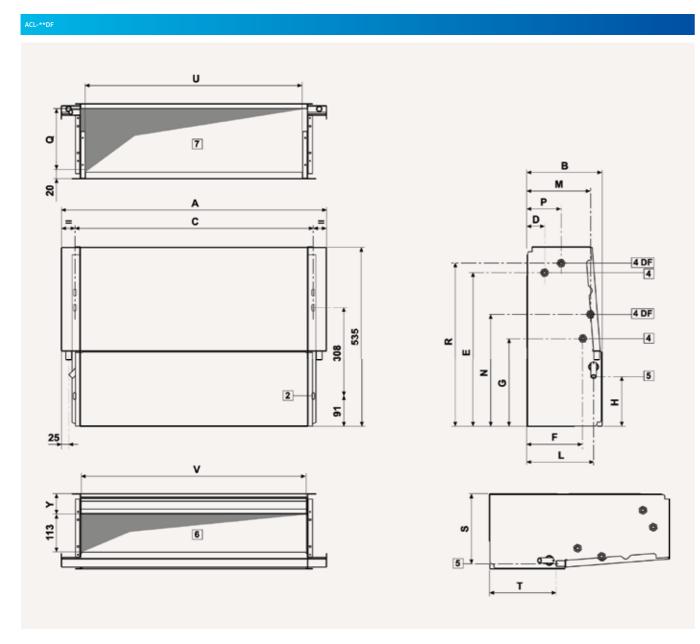
Select wire size based on the Minimum Circuit Ampacity (MCA) value.

377
5

ACL-55DF	ACL-65DF
1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz
HP	HP
7.19/5.69/4.32	7.78/6.07/4.00
7.19/5.69/4.32	8.37/6.53/4.39
182/127/86	244/169/109
182/127/86	244/169/109
0.90	1.20
0.90	1.20
Fin & tube	Fin & tube
Double suction centrifugal fan	Double suction centrifugal fan
3	3
16.8/12.8/9.5	23.2/17.0/10.7
3-step AC	3-step AC
182/127/86	244/169/109
21.1	22.9
20.2	24.2
39	42
35	47
Female	Female
3/4	3/4
Female	Female
3/4	3/4
-	-
-	-
53/46/39	59/52/41
61/54/47	67/60/49
37.0	37.0
1,355 x 249 x 535	1,355 x 249 x 535
-	-
-	-
ACL-ADP	ACL-ADP
750/133	750/133
ACL-A055HC	ACL-A055HC
ACL-A055V3	ACL-A055V3
ACL-ADV	ACL-ADV
ACL-ADH	ACL-ADH
Polypropylene washable	Polypropylene washable

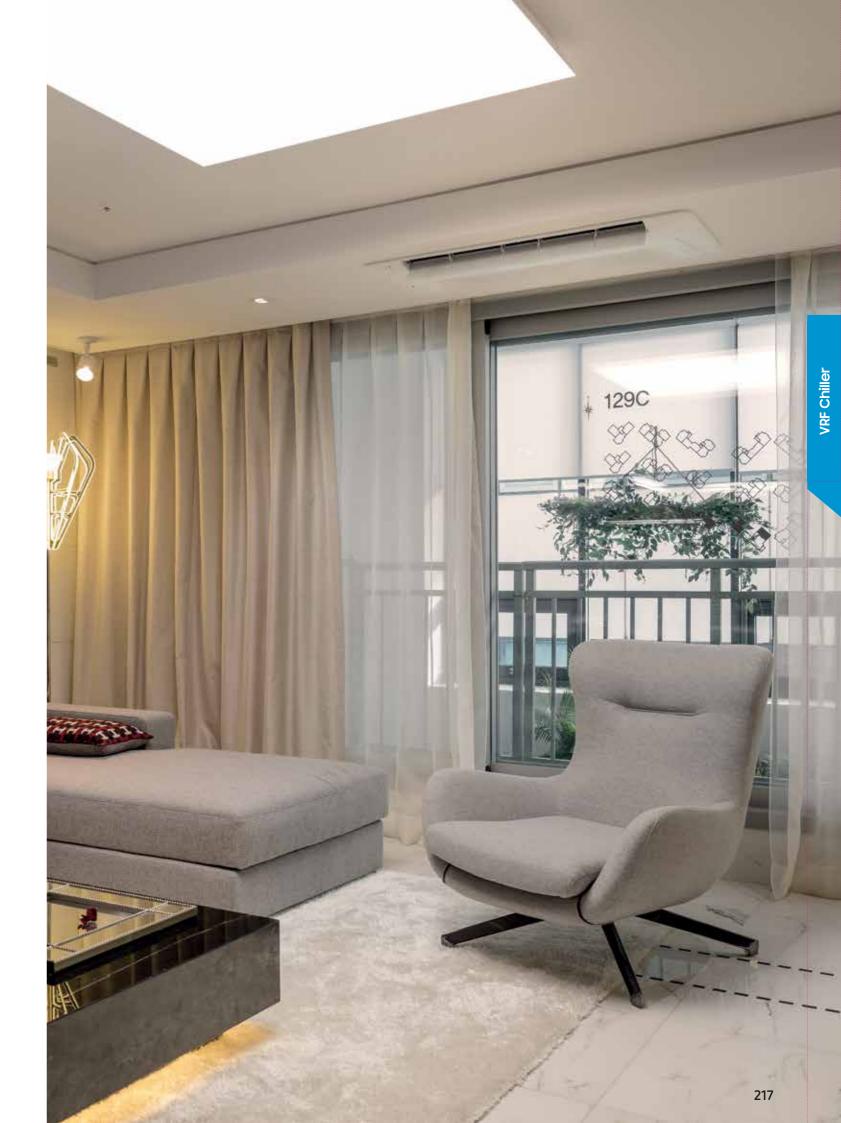
Dimensional drawings

Concealed FCU



NO	Name	Description
1	Water pipe connection out	PF Male 3/4 (20A)
2	Water pipe connection in	PF Male 3/4 (20A)
3	Air vent valve	
4	Drain hose	VP25 (OD 32, ID 25)
5	Power supply/communication wiring conduits	
6	Air discharge part	
7	Air suction part	

MODEL	А	В	С	н	L	S	Т	Y
ACL-18DH	584	224	498	149	198	208	198	61
ACL-25DH	794	224	708	149	198	208	198	61
ACL-35DH	1004	224	918	149	198	208	198	61
ACL-55DH	1214	249	1128	155	220	234	208	67
ACL-65DH	1214	249	1128	155	220	234	208	67



Cased FCU

- Plug & play solution in combination with HVM Chiller.
 Optional vertical or horizontal installation
 3-Way valve kit included as standard.

- FCU kit included as standard.

- Optional drain pipe.
- Optional heating coil 4-pipe.
 Optional 3-Way valve kit 4-pipe. Auxilary Drain Pan vertical/horizontal







		Model		ACL-18DG	ACL-25DG	ACL-35DG
Power Supply			Ф, V, Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz
Mode			-	HP	HP	HP
Performance	Capacity	Cooling (H/M/L)	kW	1.91/1.66/1.34	2.87/2.34/1.73	4.24/3.20/2.47
	(Nominal)	Heating (H/M/L)	kW	2.15/1.81/1.50	2.91/2.35/1.73	4.24/3.24/2.47
Power	Power Input	Cooling (H/M/L)	W	53/36/24	56/43/29	90/50/40
	(Nominal)	Heating (H/M/L)	W	53/36/24	56/43/29	90/50/40
	Current Input	Cooling	A	0.26	0.28	0.45
	(Nominal)	Heating	A	0.26	0.28	0.45
Heat Exchanger	Туре		-	Fin & tube	Fin & tube	Fin & tube
Fan	Туре		-	Double suction centrifugal fan	Double suction centrifugal fan	Double suction centrifugal fa
	Number of Fans		-	2	2	2
	Airflow Rate	H/M/L	m³/min	5.7/4.5/3.5	7.6/5.7/4.0	11.7/8.3/6.0
Fan Motor	Туре		-	3-step AC	3-step AC	3-step AC
	Output x n		W	53/36/24	56/43/29	90/50/40
Water	Water Flow Rate	Cooling	l/min	5.6	8.4	12.4
Pressure Drop		Heating	l/min	6.2	8.4	12.4
	Pressure Drop	Cooling	kPa	17	24	35
	·	Heating	kPa	20	24	35
iping Connections Liquid Pipe (IN)		Type	-	Female	Female	Female
		Dimension	ø, mm (inch)	1/2	1/2	1/2
	Liquid Pipe	Туре	-	Female	Female	Female
	(OUT)	Dimension	ø, mm (inch)	1/2	1/2	1/2
	Heat Insulation		-	-	-	-
	Drain Pipe		ø, mm	-	-	-
Sound	Sound Pressure	(H/M/L)	dB(A)	42/36/32	40/34/28	45/35/27
	Sound Power	(H/M/L)	dB(A)	50/44/40	48/42/36	53/43/35
Dimensions	Net Weight		kg	22.0	29.0	35.0
	Net Dimensions (\	WxHxD)	mm	774x564x226	984x564x226	1,194x564x226
Casing	Material		-	-	-	-
Panel	Panel Model		-	-	-	-
Additional	Drain Pump	Туре	optional	ACL-ADP	ACL-ADP	ACL-ADP
Accessories		Max. Lifting Height/Displacement	mm / (cc/min)	750/133	750/133	750/133
	Heating Coil	4-pipe	optional	ACL-A018HC	ACL-A025HC	ACL-A035HC
	3-Way Valve	4-pipe	optional	ACL-A018V3	ACL-A018V3	ACL-A018V3
	Auxiliary Drain Pa		optional	ACL-ADV	ACL-ADV	ACL-ADV
	Auxiliary Drain Pa		optional	ACL-ADH	ACL-ADH	ACL-ADH
	Filter		-	Polypropylene washable	Polypropylene washable	Polypropylene washable

		Accessories		
	CAMPBOOK	200 - 200 200 - 404 200 - 200 200 - 200 200 - 200 200 - 200		8 m 5 10.77
FCU Interface Module	FCU Kit	Touch Controller	Wired Remote Controller	Simple Type Controller
MIM-F10N	MIM-F00N	MWR-SH11N	MWR-WG00*N	MWR-SH00N

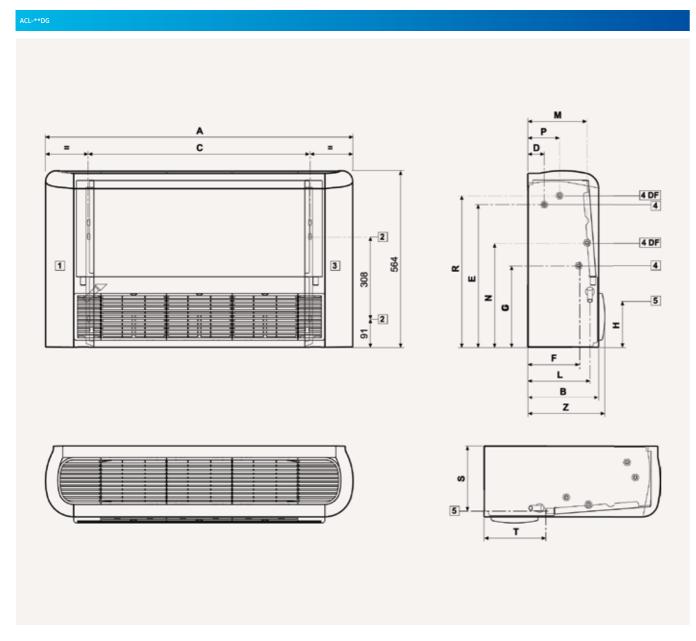
Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications may be subject to change without prior notice. Select wire size based on the Minimum Circuit Ampacity (MCA) value.



ACL-55DG	ACL-65DG				
1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz				
HP	HP				
7.19/5.69/4.32	7.78/6.07/4.00				
7.19/5.69/4.32	8.37/6.53/4.39				
182/127/86	244/169/109				
182/127/86	244/169/109				
0.90	1.20				
0.90	1.20				
Fin & tube	Fin & tube				
Double suction centrifugal fan	Double suction centrifugal fan				
3	3				
16.8/12.8/9.5	23.2/17.0/10.7				
3-step AC	3-step AC				
182/127/86	244/169/109				
21.1	22.9				
20.2	24.2				
39	42				
35	47				
Female	Female				
3/4	3/4				
Female	Female				
3/4	3/4				
-	-				
-	-				
53/46/39	59/52/41				
61/54/47	67/60/49				
45.0	45.0				
1,404x564x251	1,404x564x251				
-	-				
-	-				
ACL-ADP	ACL-ADP				
750/133	750/133				
ACL-A055HC	ACL-A055HC				
ACL-A055V3	ACL-A055V3				
ACL-ADV	ACL-ADV				
ACL-ADH	ACL-ADH				
Polypropylene washable	Polypropylene washable				

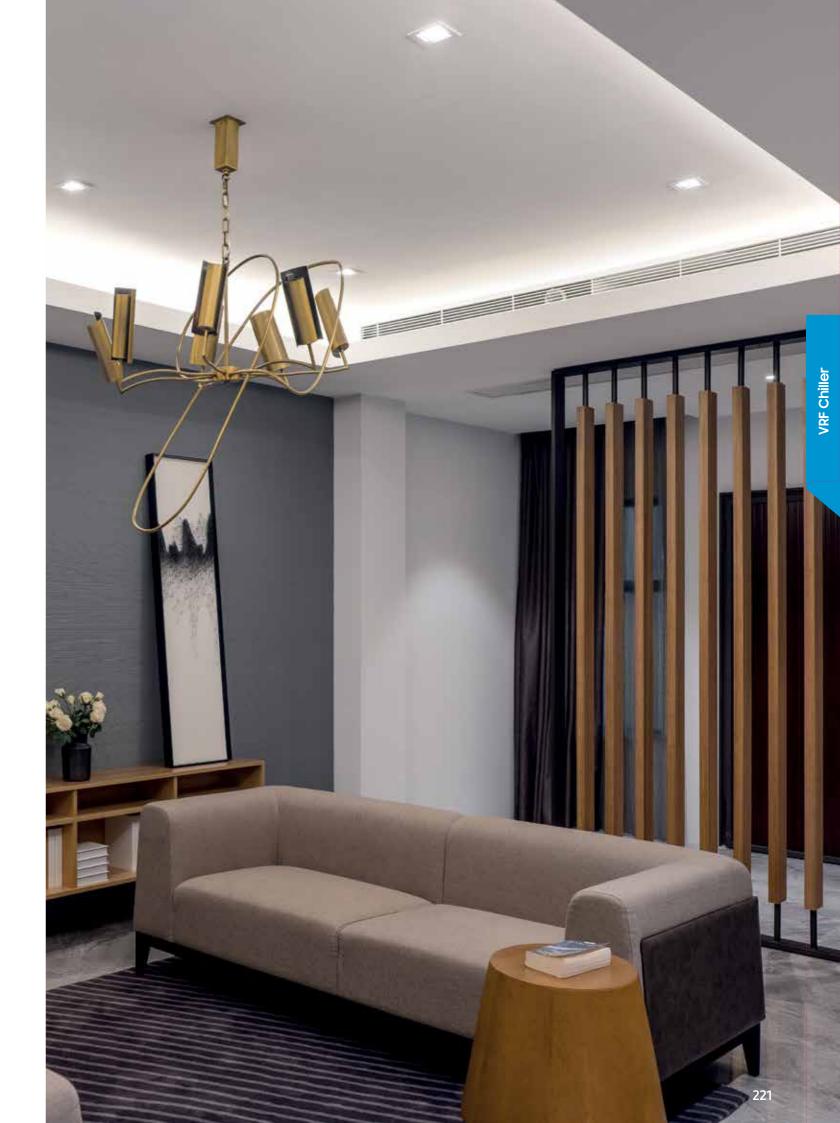
Dimensional drawings

Cased FCU



NO	Name	Description
1	Water pipe connection out	PF Male 3/4 (20A)
2	Water pipe connection in	PF Male 3/4 (20A)
3	Air vent valve	
4	Drain hose	VP25 (OD 32, ID 25)
5	Power supply/communication wiring conduits	
6	Air discharge part	
7	Air suction part	

MODEL	А	В	С	н	L	S	Т	Z
ACL-18DG	774	226	498	149	198	208	198	246
ACL-25DG	984	226	708	149	198	208	198	246
ACL-35DG	1194	226	918	149	198	208	198	246
ACL-55DG	1404	251	1128	155	220	234	208	271
ACL-65DG	1404	251	1128	155	220	234	208	271
ACL-65DG	1404	251	1128	155	220	234	208	271





Specifications

ERV

- Energy recovery ventilation unit.
 Cellulose heat exchanger element.
 High Efficiency (F7 class) air filter.

- Optional CO2 sensor for automatic regulation.
- Bypass operation mode when there's a small temperature difference between indoor and outdoor environment (automatically or manually operated).

 Interlocking with DVM S indoor units.

 Frost formation prevention without electric heater.

- Optional SPi Kit.

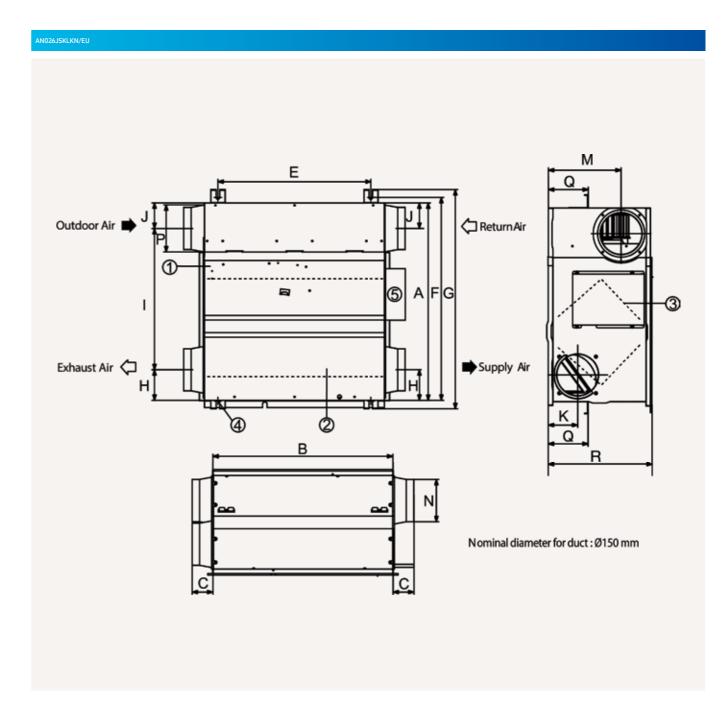


		Model			AN026JSKLKN/EU	AN035JSKLKN/EU	AN050JSKLKN/EU	AN080JSKLKN/EU	AN100JSKLKN/EU
Power Supply				Ф, #, V, Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220–240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220–240 V, 50/60 Hz
Performance	Air Volume			m³/h	260	350	500	800	1,000
	Temperature	Cooling	Turbo/High/Low	%	70/70/74	70/70/74	70/70/74	70/70/74	70/70/74
	Exchange Efficiency	Heating	Turbo/High/Low	%	74/74/75	78/78/79	74/74/75	77/77/78	74/74/75
	Effective	Cooling	Turbo/High/Low	%	50/50/55	50/50/55	50/50/55	50/50/55	50/50/55
	Enthalpy Exchange Efficiency	Heating	Turbo/High/Low	%	70/70/76	70/70/76	70/70/76	70/70/76	70/70/76
Power	Power Input		Turbo/High/Low	W	115/80/45	115/80/50	175/120/65	330/230/125	450/280/155
	Current Input		Turbo	Α	0.7	0.7	1.1	2.1	2.9
Fan	Airflow Rate		Turbo/High/Low	m³/h	260/250/180	350/350/256	500/500/360	800/800/560	1,000/1,000/690
	External Static P	ressure	Turbo/High/Low	Pa	100/65/55	155/100/83	165/100/85	155/90/80	155/90/75
Noise Level	Sound Pressure ¹		Turbo/High/Low/ Quiet	dB(A)	31/28/25/22	32/29/26/23	35/32/28/24	36/33/29/25	37/34/30/26
	Sound Power			dB(A)	-	-	-	-	-
Field Wiring	Power Source Wi	re		mm²	1.5~2.5	1.5~2.5	1.5~2.5	1.5~2.5	1.5~2.5
	Transmission Ca	ble		mm²	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
Dimensions	Net Weight			kg	28.5	42.5	42.5	67.0	67.0
	Net Dimensions	(W x H x D)		mm	600 x 350 x 660	1,012 x 270 x 1,000	1,012 x 270 x 1,000	1,2220 x 340 x 1,135	1,2220 x 340 x 1,135
	Supply/Return/Exhaust/Outside Du		e Duct Flange (ø)	mm	150	200	200	250	250

		Accessories		
		- 200	((***))	The same of the sa
Differential pressure switch ²	ERV Wired Remote Controller	Wired Remote Controller	CO ₂ Sensor	SPi Kit
MOS-P1050	MWR-VH12N	MWR-WG00*N	MOS-C1	MSD-EAN1

Dimensional drawings

ERV



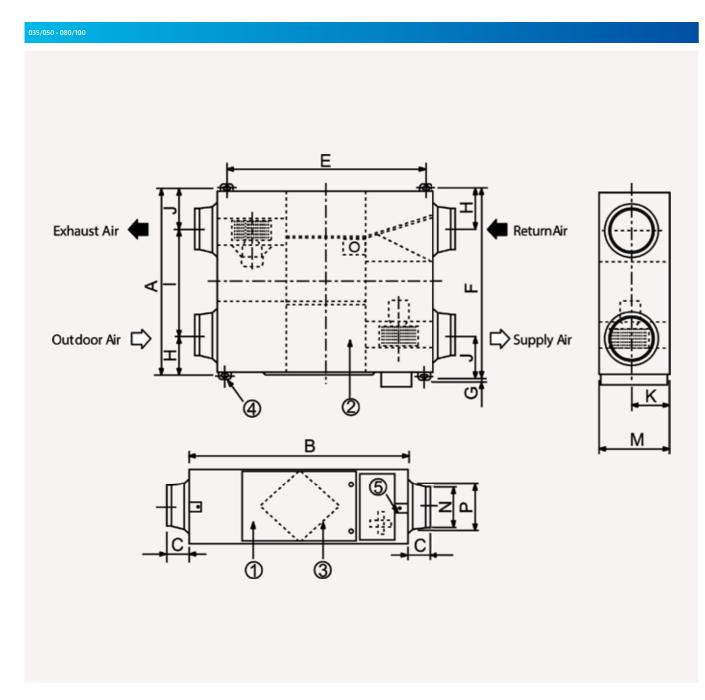
NO	Name	Description
1	Maintenance cover	1
2	Heat exchange element	1
3	Dust filter	2
4	Hanger	4
5	Electrical component box	1

Model	A	В	С	E	F	G	н		J	к	М	N	Р	Q	R
					Length	(mm)					Diamet	er (mm)		Length (mm)	
026	600	660	70	510	675	729	102	470	85	98	242	140	156	133	350

¹ Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
2 Please order MOS-P1050 separately. Differential pressure switch (model code: MOS-P1050) is a mandatory accessory for all ERV and ERV Plus units in EU countries according to Ecodesign Directive 1253/2014.

Dimensional drawings

ERV



NO	Name	Description
1	Maintenance cover	1
2	Heat exchange element	2
3	Dust filter	4
4	Hanger	4
5	Electrical component box	1

Model	Nominal diameter for duct (mm)
035/050	200
080/100	250

Model	А	В	С	E	F Length	G (mm)	н	1	J	к	M Diamet	N er (mm)	P	Q Length (mm)	R
035/050	1,000.00	1,012.00	99.00	940.60	1,036.40	26.00	130.00	617.00	253.00	135.00	270.00	194.00	241.50	133.00	350.00
080/100	1,135.00	1,220.00	84.00	1,110.00	1,183.00	25.00	184.00	613.25	387.75	170.00	340.00	244.00	270.00		



Specifications

ERV Plus for DVM S

- Energy recovery ventilation unit with built-in direct expansion coil.
 Cellulose heat exchanger element.
 High Efficiency (F7 class) air filter.

- Two centrifugal fans direct driven by electric BLDC motor.
- Optional CO₂ sensor for automatic regulation.
- Bypass operation mode when there's a small temperature difference between indoor and outdoor environment (automatically or manually operated).

 Frost formation prevention without electric heater.

- Optional SPi Kit.





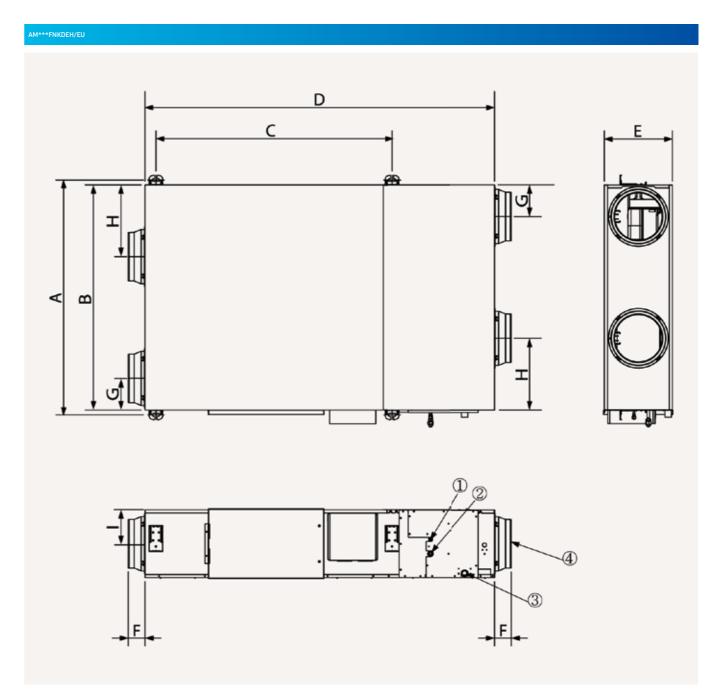
		Model			AM050FNKDEH/EU	AM100FNKDEH/EU
Power Supply				Ф, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz
Performance	Temp. Exchange	Cooling	Turbo/High/Low	%	70/70/74	70/70/74
	Efficiency	Heating	Turbo/High/Low	%	75/75/79	75/75/79
	Effective Enthalpy	Cooling	Turbo/High/Low	%	60/60/66	62/62/68
	Exchange Efficiency	Heating	Turbo/High/Low	%	73/73/79	75/75/81
	Outside Air Processing	Capacity	Cooling (DX Coil/Element)	-	5.1 (3.6/1.5)	10.5 (7.1/3.4)
			Heating (DX Coil/Element)	-	6.5 (4.0/2.5)	13.2 (8.0/5.2)
Fan	Airflow Rate		Turbo/High/Low (UL)	m ₃ /hr	500/500/360	1,000/1,000/690
				l/s	138.9/138.9/100.0	277.8/277.8/191.7
	External Static Pressur	e	Turbo/High/Low	mmAq	16.30/10.20/8.70	15.30/9.20/7.60
				Pa	160.00/100.00/85.00	150.00/90.00/75.00
	Motor		Туре	-	BLDC	BLDC
			Output	W	60	70
			Quantity	ea	2	2
Power	PowerInput		Turbo/High/Low	W	220/140/90	510/350/235
	Current Input		Turbo/High/Low	A	1.7/1.0/0.6	3.7/2.4/1.6
Piping Connections	Liquid Pipe g, mm g, inch			ø, mm	6.35	6.35
				ø, inch	1/4	1/4
	Gas Pipe Drain Pipe Water Supply			ø, mm	12.70	12.70
				ø, inch	1/2	1/2
				ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
				ø, inch	VP25 (OD 1-1/4", ID 1")	VP25 (OD 1-1/4", ID 1")
				ø, mm	12.70	12.70
				ø, inch	1/2	1/2
Field Wiring	Power Source Wire			mm²	1.5/2.5	1.5/2.5
	Transmission Cable			mm²	0.75~1.50 0.75~1.50	
Refrigerant	Туре			-	R410A(Fluorinated greer	nhouse gas, GWP=2,088)
	Control Method			-	EEV EEV	
Sound	Sound Pressure ¹		Turbo/High/Low	dB(A)	36/32/28	36/33/31
	Soud Power		<u> </u>	dB(A)	67	67
Dimensions	Net Weight			kg	61.0	90.0
	Net Dimensions (W x H	x D)		mm	1,553 x 270 x 1,000	1,763 x 340 x 1,135
	Supply/Return/Exhaus	t/Outside Duc	t Flange (ø)	mm	200	250
Air Filter				-	High Efficiency Filter (PP)	High Efficiency Filter (PP)
Ambient Conditions	Around Unit			-	0~40 °C DB, 80 % RH or less	0~40 °C DB, 80 % RH or less
	Outdoor Air			-	-15~40 °C DB, 80 % RH or less	-15~40 °C DB, 80 % RH or less
	Return Air			-	0~40 °C DB, 80 % RH or less	0~40 °C DB, 80 % RH or less

	Acces	sories	
			ESS.
Differential pressure switch ²	Wired Remote Controller	CO ₂ Sensor	SPi Kit
MOS-P1050	MWR-WG00*N	MOS-C1	MSD-EAN1

Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
Please order MOS-P1050 separately. Differential pressure switch (model code: MOS-Pa) is a mandatory accessory for all ERV and ERV Plus units in EU countries according to Ecodesign Directive 1253/2014.

Dimensional drawings

ERV Plus for DVM S



NO	Name	Descri	otion				
		AM050FNKDEH	AM100FNKDEH				
1	Liquid pipe connection	quid pipe connection ø6.35 Flare					
2	Gas pipe connection	ø12.70 Flare					
3	Drain pipe connection	VP25 (OD 32, ID 25)					
4	Nominal diameter for duct	Ø200 Ø250					

Model	A	В	С	D	E	F	G	н	1
RHF050KHEA	1,036	1,000	987	1,553	270	99	130	253	135
RHF100KHEA	1,183	1,135	1,189	1,763	340	84	160	362	170

OAP Duct for DVM S

- 100% Fresh Air unit.
 Equipped with two Sirocco fans direct driven by a single motor.
 Discharge temperature control.
 No limitation in OAP Duct quantity for one system.

- Auto ESP function: the fan speed is adjustable according
- to ductwork external static pressure.

 Can be combined with other DVM indoor units to form one system.





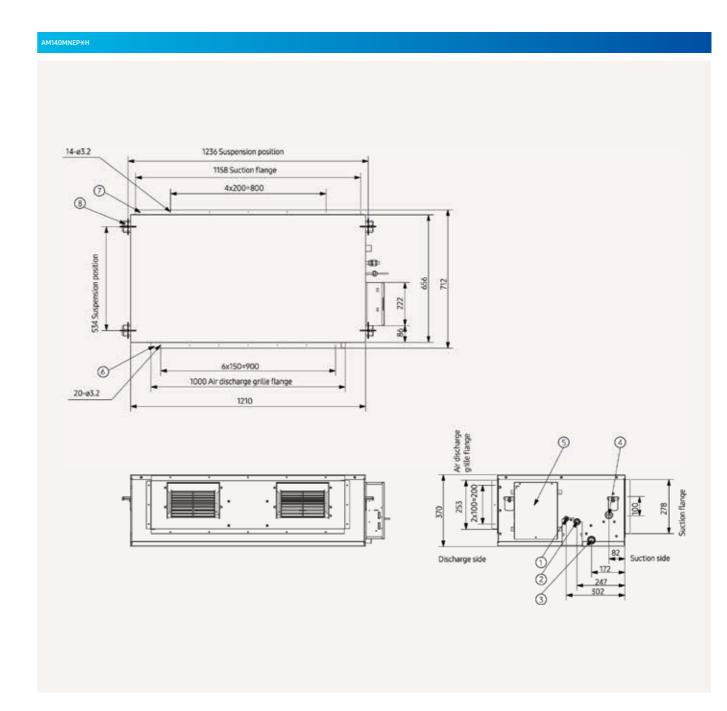


Model				AM140MNEPEH/EU	AM220MNEPEH/EU	AM280MNEPEH/EU
ower Supply			Φ, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	14.0	22.4	28.0
		Heating	kW	8.9	13.9	17.4
ower	Power Input (Nominal)	Cooling	W	300	450	600
		Heating	W	300	450	600
	Current Input (Nominal)	Cooling	Α	2.2	3.5	4.6
		Heating	Α	2.2	3.5	4.6
eat Exchanger	Туре		-	Fin & tube	Fin & tube	Fin & tube
	Material		Fin	Al	Al	AL
			Tube	Cu	Cu	Cu
in	Motor	Туре	-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output x n	W	183 x 1	630 x 1	630 x 1
		Number of Fans	ea	2	2	2
	Airflow Rate	H/M/L	m³/min	18	28	35
			l/s	300.0	466.7	583.3
	External Pressure	Min/Std/Max	mmAq	15.30/20.40/25.50	18.40/23.40/29.60	20.40/25.50/30.60
			Pa	150.00/200.00/250.00	180.00/230.00/290.00	200.00/250.00/300.00
oing Connections	Liquid Pipe		ø, mm	9.52	9.52	9.52
			ø, inch	3/8	3/8	3/8
	Gas Pipe		ø, mm	15.88	19.05	22.22
			ø, inch	5/8	3/4	7/8
	Drain Pipe		ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
eld Wiring	Transmission Cable	Min.	mm²	0.75	0.75	0.75
frigerant	Туре		-	R410	A(Fluorinated greenhouse gas, GWP=2,	,088)
	Control Method		-	EEV (INCLUDED)	EEV (INCLUDED)	EEV (INCLUDED)
oise Level	Sound Pressure ¹	H/M/L	dB(A)	42	46	47
	Sound Power	Cooling	dB(A)	65	66	69
mensions	Net Weight		kg	49.0	81.5	81.5
	Net Dimensions (W x H x D)		mm	1 210 x 370 x 656	1,360 x 460 x 910	1,360 x 460 x 910
ditional	Drain Pump	Drain Pump	-	MDP-M075SGU2D	MDP-G075SP	MDP-G075SP
ccessories		Max. Lifting Height/ Displacement	mm / litres/h	750/24	750/24	750/24
	Air Filter		-	Removable/ Washable	Removable/ Washable	Removable/ Washable

		Access	ories		
880 125	000 mil	- 20°	:	** 0	
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA

Dimensional drawings

OAP Duct for DVM S

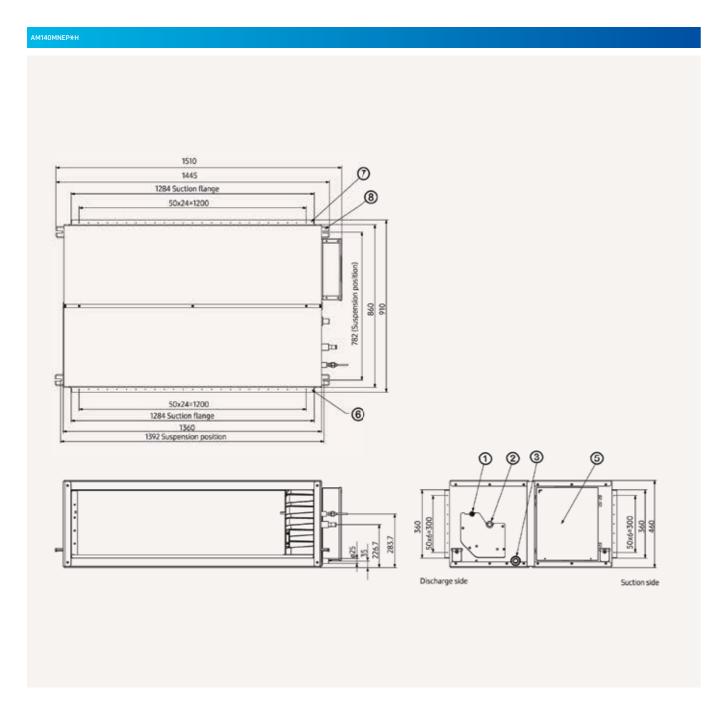


NO	Name	Description		
1	Diameter of liquid pipe	ø9.52		
2	Diameter of air pipe	ø15.88		
3	Diameter of drain pipe	OD ø25, ID ø20		
4	Diameter of drain pipe (Optional drain pump)	OD ø25, ID ø20		
5	Power supply/Communication wiring conduit			
6	Air discharge grille flange			
7	Suction flange			
8	Hook	ø9.52 or M10		

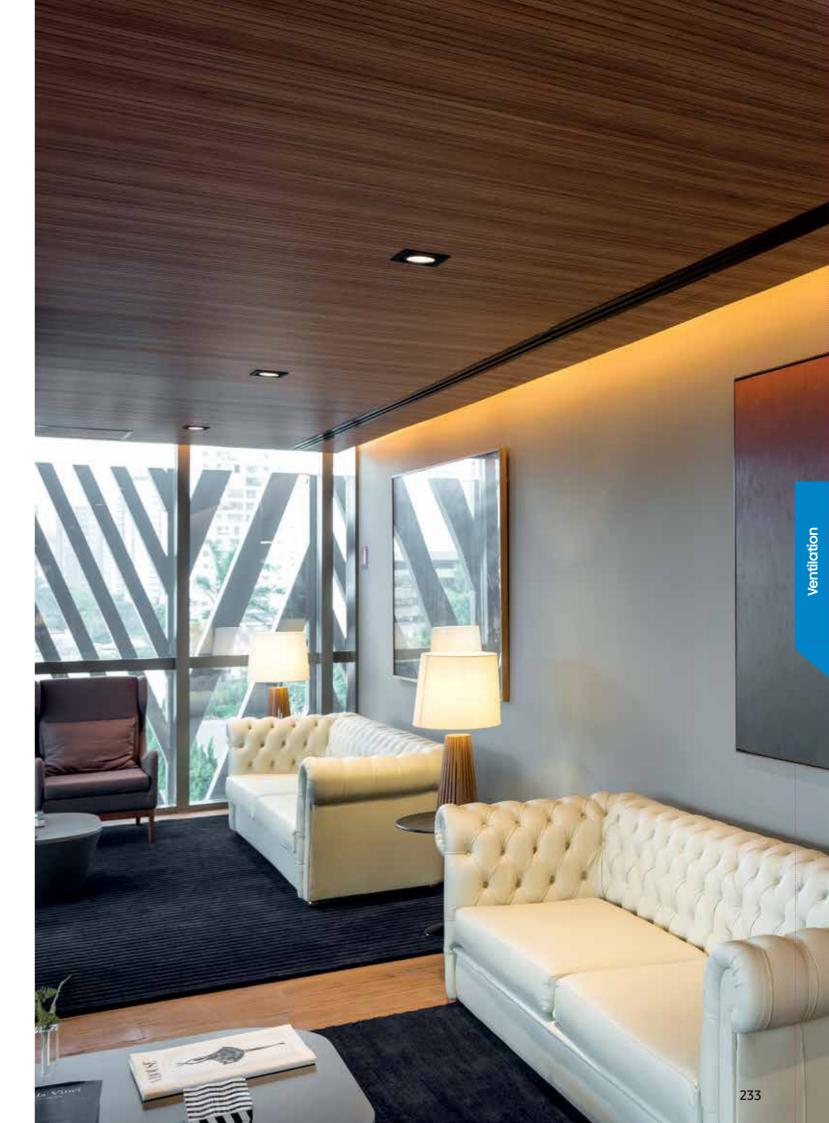
¹ Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

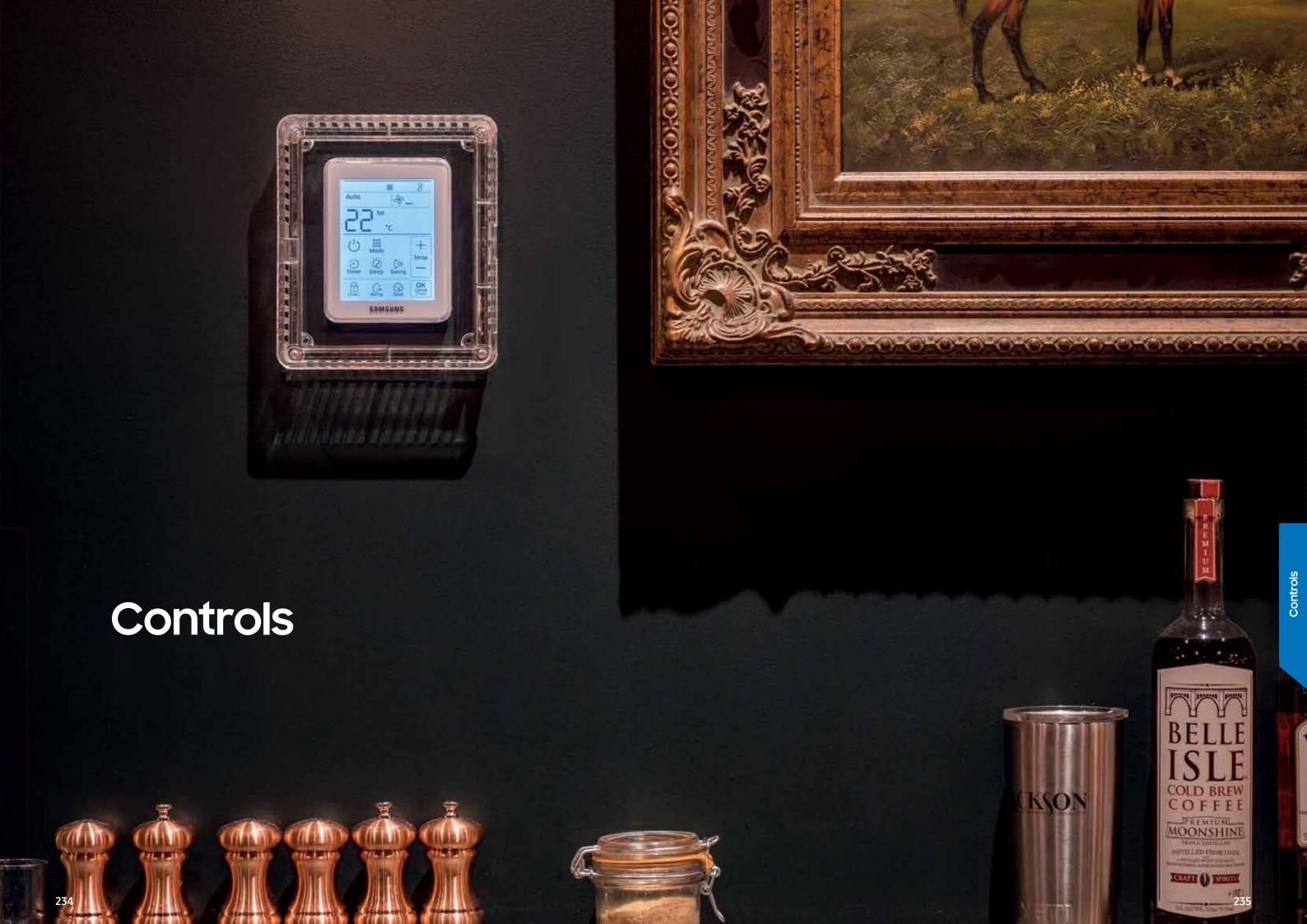
Dimensional drawings

OAP Duct for DVM S



NO	Name	Description		
1	Diameter of liquid pipe	ø9.52		
2	Diameter of air pipe	ø15.88		
3	Diameter of drain pipe	OD ø25, ID ø20		
4	Diameter of drain pipe (Optional drain pump)	OD ø25, ID ø20		
5	Power supply/Communication wiring conduit			
6	Air discharge grille flange			
7	Suction flange			
8	Hook	ø9.52 or M10		





Line-up

	Product	Model	Image	Matchable Products
Individual Control System	Wireless Remote Controller	AR-EH03M AR-EH03E		FJM, CAC, DVM, FCU *only for FCU 1-Way/4-Way Cassette
	Wireless Remote Controller	AR-KH03E	8	CAC, DVM, FCU *only for 360 Cassette
	Wired Remote Controller	MWR-WG00*N	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FJM, CAC, DVM, ERV, FCU
		MWR-WW00N, MWR-WW10*N	-4:	DVM *only for Hydro unit
	Simple Type Controller	MWR-SH00N	East State	CAC, DVM, FCU
	Touch Type Controller	MWR-SH11N	886.44	CAC, DVM, FCU (with WindFree™ function)
	ERV Wired Remote Controller	MWR-VH12N		ERV
	Wireless Receiver Kit	MRK-A10N		CAC, DVM *only for duct models
Centralised Control System	ON/OFF Controller	MCM-A202DN	10000 C	FJM, CAC, DVM, ERV Plus, HVM Chiller
	Touch Centralised Controller	MCM-A300N		FJM, CAC, DVM, ERV Plus, HVM Chiller
	Wi-Fi Kit	MIM-H04EN	1	All (except HVM Chiller & 3rd party FCU)
	Module Controller	MCM-A00N		HVM Chiller

	Product	Model	Image	Matchable Products
Gateway System	BACnet Gateway	MIM-B17BN		FJM, CAC, DVM, ERV Plus, HVM Chiller
	LonWorks Gateway	MIM-B18BN	desired .	FJM, CAC, DVM, ERV Plus, HVM Chiller
	External Contact Interface Module	MIM-B14 (KEY TAG) MIM-B14A (LEAK DETECTION)		RAC, FJM, CAC, DVM, HVM Chiller
	PIM (Pulse Interface Module)	MIM-B16N	_	FJM, CAC, DVM, ERV Plus, HVM Chiller
	MODBUS Gateway	MIM-B19N		FJM, CAC, DVM, ERV Plus, HVM Chiller
	Interface Module (Converter RS485 to NASA)	MIM-N01		FJM, CAC
	ERV Interface Module (Converter RS485 to NASA)	MIM-N10		ERV
	FCU Kit	MIM-F00N	SAMSENG	Concealed & Cased FCU
	FCU Interface Module	MIM-F10N		FCU
Installation/ Test Run Solution	S-Converter	MIM-C02N	a	
Others	External Room Sensor	MRW-TA		FJM, CAC, DVM
	Operation Mode Selection Switch	MCM-C200		
	MTFC (Multi-Tenant Function Controller)	MCM-C210N		
Integrated Management System	DMS2.5	MIM-D01AN	=	FJM, CAC, DVM, ERV Plus, HVM Chiller
	S-NET3	MST-P3P		
	b.loT	MST-BL1A	AAAAAAAA	

Compatibility guide

Classification	Desdest	Model		Compatibility		
Classification	Product	модец	lmage	DVM	HVM Chiller	FCU1W/4W/360
Individual Control System	Wireless Remote Controller	AR-EH03E	1 2 400	•		•
	Wireless Remote Controller (360 Cassette only)	AR-KH03E	$\Gamma_{ii}^{ij}(\circ)$	•		•
	Wired Remote Controller	MWR-WG00*N	w 1 2 1 2	•		•
		MWR-WW00N MWR-WW10*N (DVM Hydro)	:	•		
	Simple Type Controller	MWR-SH00N		•		•
	Touch Controller	MWR-SH11N	02.72 1215	•		•
	ERV Wired Remote Controller	MWR-VH12N	100 miles			
	Wireless Receiver Kit	MRK-A10N	i	•		
Centralised Control System	Touch Centralised Controller	MCM-A300N		•	•	
	ON/OFF Controller	MCM-A202DN		•	•	
	Wi-Fi Kit	MIM-H04EN	-	•		•
	Module Controller	MCM-A00N			•	
Integrated Management System	DMS 2.5	MIM-D01AN	-	•	•	
	S-NET3	MST-P3P		•		
Gateway System	BACnet Gateway	MIM-B17BN	-	•	•	
	Lonworks Gateway	MIM-B18BN		•	•	
	Modbus Interface Module	MIM-B19N		•		
	PIM (Pulse interface module)	MIM-B16N	-	•	•	
	External Contact Interface Module	MIM-B14		•	•	
		MIM-B14A (refrigerant leakage detector)		•		
	Interface Module Converter (RS485-NASA)	MIM-N01	0	•		
	ERV Interface Module Converter (RS485-NASA)	MIM-N10				
	FCU Interface Module	MIM-F00N MIM-F10N				•
Installation/ Test Run Solution	S-Converter	MIM-C02N		•	•	
Others	External Room Sensor	MRW-TA		•		
	Operation Mode Selection Switch	MIM-C200		•		
	MTFC (Multi-Tenant Function Controller)	MCM-210N		•		

		Com	patibility		
FCU 3rd party	ERV	ERV Kit	ERV Plus	PAC	AHU Kit
					•
•	•		•		•
•					
•					
	•		•		
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Selection guide





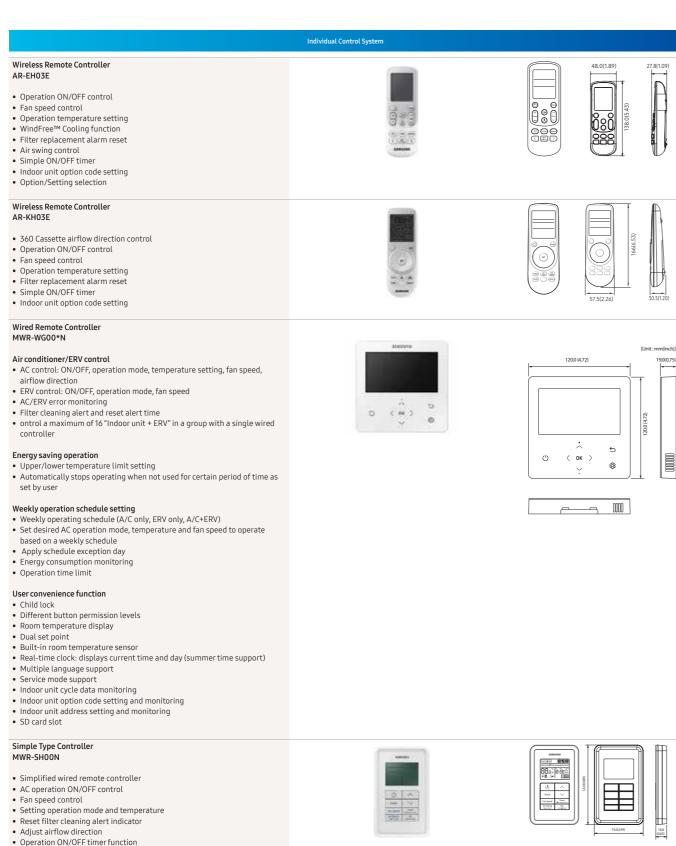


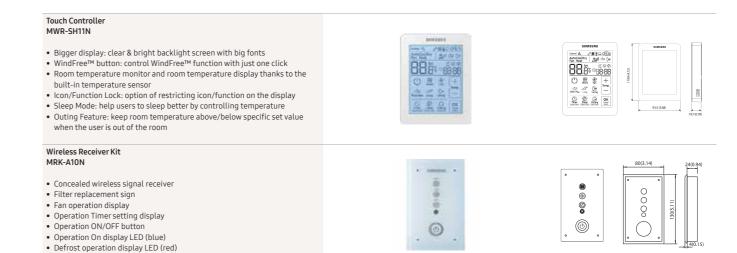


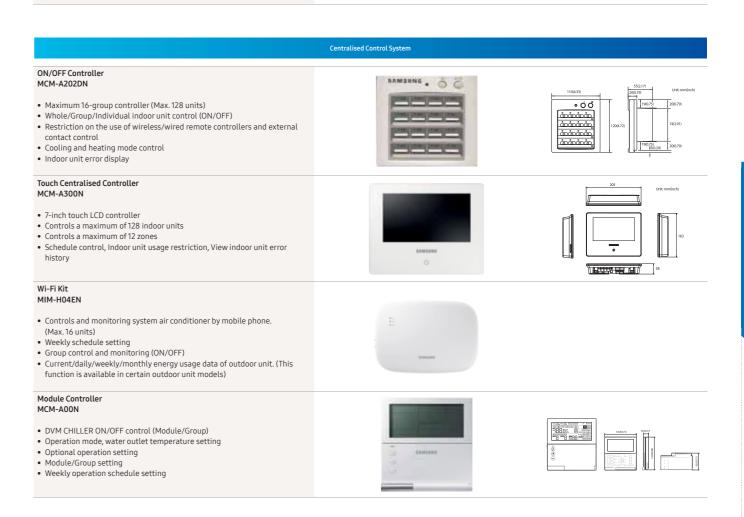
Model		MWR-WG00*N	MWR-SH00N	MWR-SH11N	MWR-VH12N
Appearance	Dimensions	120.0 x 120.0 x 19.0	75x 122x 16.6	94.2 x 122.0 x 19.5	75.0 x 122.0 x 16.6
Connection	Indoor units control	•	•	•	
	ERV control	•			•
	Maximum connectable indoor units	16	16	16	6
ontrol & monitoring	ON/OFF	•	•	•	•
	Operation mode	•	•	•	•
	Fan speed	•	•	•	•
	Airswing	•	•	•	
	Room temperature display	•			
	°C convertible	•		•	
	Filter cleaning alarm reset	•	•	•	
	Air quality display	•			
	Purification display	•			
	Display indoor model number	•			
	Error display	•	•	•	•
	Error list	•			
chedule	Weekly schedule	•	-		
	Simple ON/OFF timer		•	•	•
onvenient function	Dual set point	•			
	Multiple languages	•			
	Built-in room sensor	•		•	
	LCD backlight	•		•	
	Wireless RC restriction	•	•	•	
	Child lock	•	•	•	•
	Partial button lock	•	•	•	•
	Quiet mode	•	•	•	
	Sleep mode	•		•	
	Away mode (SAC)	•		•	
	Away mode (ERV)				•
	IR receiver	•		•	
	Real-time clock				
	Daylight saving time	•			
	Individual blade control	•			
	CO ₂ display	O ERV			•
	Humidity display	O ERV			
	Purification mode	O ERV			
nergy saving	Temperature range limit	• ERV	•	•	
	Automatic operation stop	•			
	Operation time limit	•			
	Energy consumption monitoring	•			
	Energy saving mode with ERV	•			
Maintenance	SD slot	•			



Features and Dimensional drawings







BACnet Gateway MIM-B17BN With the BMS control and monitoring function, BACnet gateway makes it easy to control the air conditioning network in various ways. BACnet gateway can control up to 256 indoor units, used in combination with S-NET 3. Interface for BACnet management system • Maximum of 256 indoor units plus ERVs, supported by a maximum of 80 interface modules • Includes DMS 2.5 functions LonWorks Gateway LonWorks gateway is an interface for Lon-Connection to the LonWorks management system, providing you with 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. • Exclusive use for DMS 2.5 power distribution • Connection with up to eight watt-hour meters Pulse interface with watt-hour meters Watt-hour meter - by third party External Contact Interface Module MIM-B14 Samsung Guestroom Management System saves users the energy and money wasted on cooling an unoccupied room. The air conditioner is activated when the Key-Tag is in place and turns off when the Key-Tag is removed. An external contact interface module provides direct indoor unit control via an external contact signal, as well as window-synchronised indoor unit control. The emergency control function features simple contact input. The module also generates indoor unit operation/error state output through relay contacts. • 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 PIM (Pulse Interface Module) MIM-B16N $\underline{-}$ The Watt-Hour Meter Interface Module can be exclusively used for DMS 2.5 power distribution, displaying power consumption for each watt-hour meter. • Exclusive use for DMS 2.5 power distribution Connection with up to eight watt-hour meters Pulse interface with watt-hour meters Watt-hour meter - by third party

Interface Module MIM-N01

- Communication interface module between outdoor units and the upper level controller which makes use of a different type of communication
- Connect one interface module to one outdoor unit
- Individual control maximum of 48 indoor units
- Group control maximum of 16 groups
- Automatic detection of communication type: determine the communication type used by the upper level controller according to the communication type used by the outdoor
- Supported communication type
- Conventional outdoor unit communication ←→ New upper level controller communication
- New outdoor unit communication \longleftrightarrow Conventional upper level controller communication

FCU Interface Module MIM-F10N

- Communication interface module
- Connect one FCU interface module to a maximum of 16 FCU
- Supports FCU Kit only

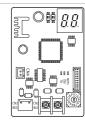
Interface Module (Converter RS485 to NASA) MIM-N10

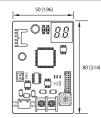
- Communication interface module between new communication FRV and controller
- Connect one ERV interface module to a maximum of 16 ERVs
- Individual control maximum of 16 ERVs
- Group control maximum of 16 groups
- Supported communication type
- Conventional ERV communication ←→ New upper level controller communication
- New ERV communication ←→ Conventional upper level controller communication
- New ERV communication \longleftrightarrow New upper level controller communication

FCU Kit MIM-F00N

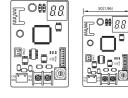
- Communication and control interfacing kit between 3rd party FCU and Samsung control system
- · Possible to use wired remote controller
- Possible to use DMS 2.5, touch centralized controller
- Provides external contact input
- Outputs control signal for FCU fan / water valve
- Size: 270 x 200 x 87.4mm (W x H x D)



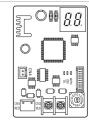








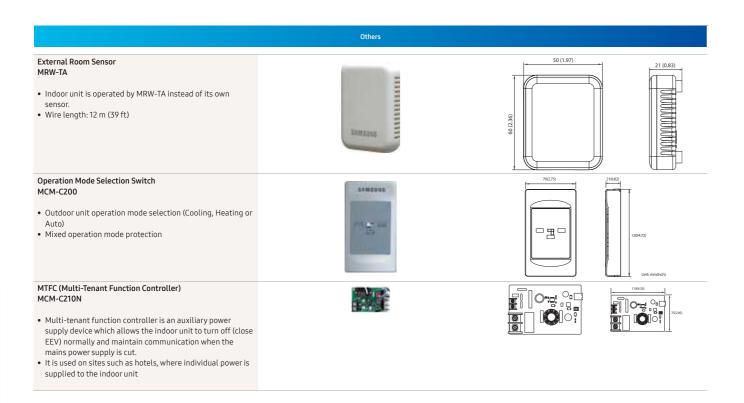








S-Converter MIM-CO2N • Communication converting module to connect Samsung system air conditioner to a PC. • Main purpose for use - To connect with test run programme [Test run programme] - S-NET Pro: Conventional communication - S-NET Pro2: New communication



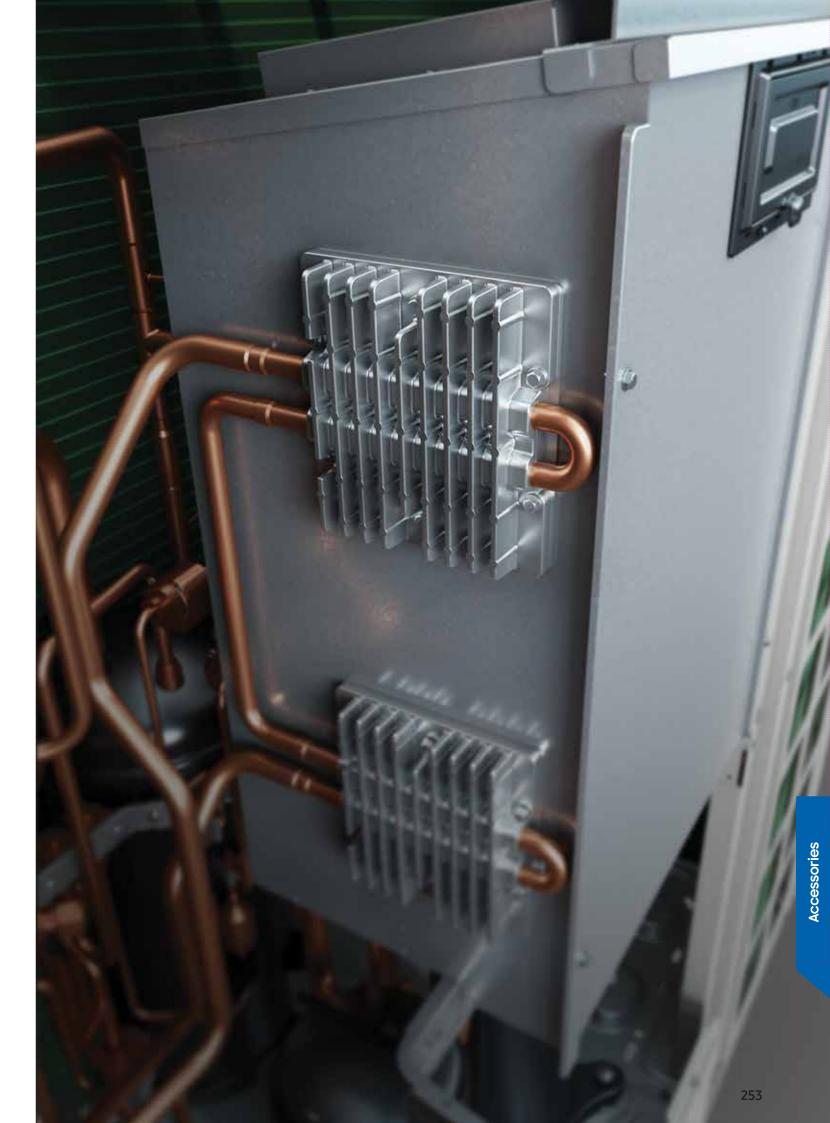


Line-up

Classification	lmage	Model DVM S (New Communication Protocol)	Application
Drain Pump	HAS.	MDP-E075SEE3D	Slim Duct (2.0-14.0 kW)
	132	MDP-N047SNC1D	HSP Duct (22.4/28.0 kW) Fresh Air Intake Duct (14.0 kW)
	•	MDP-G075SP	Global Duct (External Type)
	HES.	MDP-G075SQ	Global Duct (Internal Type)
AHU Kits		MXD-K025AN	EEV + Control Kit (7.00-8.75 kW AHU)
		MXD-K050AN	EEV + Control Kit (14.00~17.50 kW AHU)
	TARACT N	MXD-K075AN	EEV + Control Kit (21.00-26.25 kW AHU)
		MXD-K100AN	EEV + Control Kit (28.00~35.00 kW AHU)
	0	MXD-A64K100E	AHU EEV Kit (10 hp)
	197 have	MCM-D201N	Control Kit (PBA, 10 hp-40 hp)
360 Cassette Front Panel		PC4NUDMAN	NASA, Square
		PC4NBDMAN	NASA, Square - Black
	O	PC4NUNMAN	NASA, Circle (exposed installation)
		PC4NBNMAN	NASA, Circle (exposed installation) - Black
WindFree™ 4-Way Cassette Front Panel		PC4NUFMAN	WindFree™ 4-Way Cassette (900x900)
		PC4SUFMAN	WindFree™ 4-Way 600 x 600 Cassette
4-Way Cassette Front Panel		PC4NUSKAN	4-Way Cassette S - Waffle
		PC4NUSKEN	4-Way Cassette S - Classic
WindFree™ 1-Way Cassette Front Panel	, petition	PC1MWFMAN	WindFree™ 1-Way Cassette (1.7~2.2 kW)
	, selecte	PC1NWFMAN	WindFree™ 1-Way Cassette (2.8~3.6kW)
	- Selline	PC1BWFMAN	WindFree™ 1-Way Cassette (5.6~7.1kW)
WindFree™1-Way Cassette FCU Front Panel Medium	- Selline	PC1NWFMBN	WindFree™ 1-Way Cassette FCU (2.8~3.6kW)
	(.0000m	PC1BWFMBN	WindFree™ 1-Way Cassette FCU (5.6-7.1kW)
1-Way Cassette Front Panel	Secus	PC1BWSMAN	1-Way Cassette (New Air Fluid Design) (1.7–2.2 kW)
		PC1NUSMAN	Slim 1-Way Cassette (2.2~3.5 kW)
Air Purification Panel * For only CAC, DVM		PC6EUCMAN	360 Cassette
		PC4NUCEAN	WindFree™ 4-Way Cassette (900x900)
	- Selline	PC1MWCMAN	WindFree™ 1-Way Cassette (1.7~2.2 kW)
	1,00000	PC1NWCMAN	WindFree™ 1-Way Cassette (2.8~3.6kW)
	(Delitera	PC1BWCMAN	WindFree™ 1-Way Cassette (5.6~7.1kW)
Auto Elevation Panel * For only CAC, DVM		PC6EUXMAN	360 Cassette
		PC4NUXMAN	WindFree™ 4-Way Cassette (900x900)
SPi Kit	-	MSD-CAN1	360 Cassette, WindFree™ 4-Way Cassette, Big Ceiling
		MSD-EAN1	Duct S, ERV (Plus)

		Model			
Classification	lmage	DVM S	Application		
		(New Communication Protocol)			
Motion Detect Sensor		MCR-SMC	WindFree™ 4-Way 600x600 Cassette		
	23332	MCR-SMD	WindFree™ 4-Way Cassette		
		MCR-SME	360 Cassette		
/-joint		MXJ-YA1509M	15.0 kW and below		
		MXJ-YA2512M	Over 15.0 kW-40.0 kW and below		
	Dane .	MXJ-YA2812M	Over 40.0 kW~45.0 kW and below		
	100	MXJ-YA2815M	Over 45.0 kW-70.3 kW and below		
	2	MXJ-YA3419M	Over 70.3 kW-98.4 kW and below		
		MXJ-YA4119M	Over 98.4 kW-135.2 kW and below		
		MXJ-YA4422M	Over135.2 kW		
/-Joint (HR Only)		MXJ-YA1500M	22.4 kW and below		
		MXJ-YA2500M	Over 22.4 kW-70.3 kW and below		
		MXJ-YA3100M	Over 70.3 kW-135.2 kW and below		
		MXJ-YA3800M	Over135.2 kW		
Y-Joint (Outdoor Unit)		MXJ-TA3419M	135.2 kW and below		
		MXJ-TA4122M	140.2 kW and over		
Y-Joint (HR Outdoor Unit)	10 S	MXJ-TA3100M	135.2 kW and below		
		MXJ-TA3800M	140.2 kW and over		
/-Joint (for MCU)	奏	MXJ-YM1509M	Over16.0 kW~28.0 kW and below		
		MXJ-YM1206M	Over 6.0 kW-14.0 kW and below		
		MXJ-YM1206R	Over 6.0 kW~14.0 kW and below		
Distribution Header	1000	MXJ-HA2512M	45.0 kW and below (for 4 rooms)		
		MXJ-HA3115M	70.3 kW and below (for 8 rooms)		
		MXJ-HA3819M	Over 70.3 kW-135.2 kW and below (for 8 rooms)		
leat Recovery Changer	Constant of	MCU-R4NEK0N			
		MCU-S6NEK3N			
ICU		MCU-S6NEK2N	6 ports, max 61.6 kW (~16 kW/port)		
	THE PERSON	MCU-S4NEK3N	4 ports, max 61.6 kW (~16 kW/port)		
		MCU-S2NEK2N	2 ports, max 32.0 kW (~16 kW/port)		
		MCU-S1NEK1N	1 ports, max16.0 kW (~16 kW/port)		

Classification	lmage	Model DVM S (New Communication Protocol)	Application
EEV Kit	5 9 4 5 5 5 5 5 5	MXD-E24K132A	
	20	MXD-E24K200A	2 Indoor
		MXD-E32K200A	
		MXD-E24K232A	
	4	MXD-E24K300A	3 Indoor
	34	MXD-E32K224A	5 Indoor
		MXD-E32K300A	
	_0	MEV-E24SA	1 Indoor
		MEV-E32SA	THOUGH
DRAIN HORSE		MOK-200DA	L TYPE SLIM1-WAY / 4-WAY MINI
Differential Pressure Switch		MOS-P1050	ERV (Plus)
CO₂ SENSOR	MADE TO BE A STATE OF THE STATE	MOS-C1	ERV (Plus)
3rd party FCU Accessories		ACL-A60V3	3-Way Valve Kit
		ACL-ADP	Drain pipe
		ACL-A0**HC	Heating coil 4-pipe
		ACL-A0**V3	3-Way Valve Kit 4-pipe
		ACL-ADV	Auxilliary Drain Pan Vertical
		ACL-ADH	Auxilliary Drain Pan Horizontal



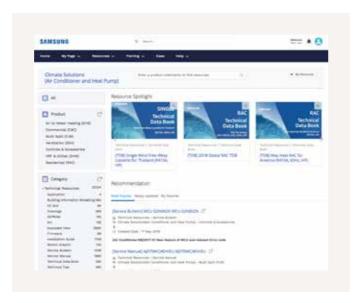


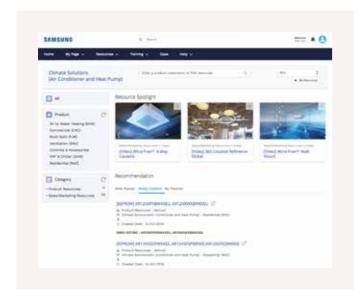
Samsung Climate Solutions Partner Portal

As one of Samsung's registered Climate Solutions partners, you will have access to our Partner Portal and its many benefits. Whether you are looking for marketing materials or technical product documentation, requesting technical support or registering for training, the Samsung Climate Solutions Partner Portal offers you everything you need to consistently deliver the best results.

Access technical resources

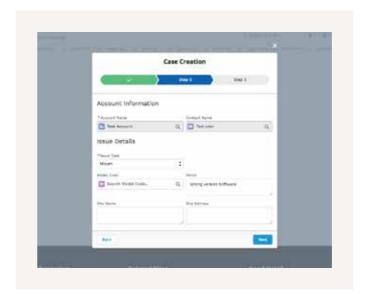
The Technical Resources section provides you with all of the relevant information you need to understand the product's functionality and to prepare and design projects. A library full of technical information is at your fingertips, ranging from technical data books, BIM files and certificates to exploded views, CAD drawings and user and installation manuals..





Obtain marketing resources

Potential buyers like to know that you are on the cutting edge of Samsung's latest innovations. To enable you to align with Samsung's marketing initiatives, the Partner Portal provides you with useful downloadable assets such as images and videos, designed to make your marketing activities easy and



Request technical support

You can easily request technical support through the Samsung Partner Portal by reporting your case using our built-in ticketing system. You can rest assured that our well-trained technical experts will work to solve your issue as soon as

Register for training

If you are dedicated to becoming a Samsung climate solutions expert, you can access Samsung's educational portal for training sessions provided by experienced trainers. The portal allows you to search for online courses and materials, test your climate solutions knowledge, and more. The Samsung Business Academy is here to help you succeed.1

The registration process for and availability of training courses may vary per country Please contact your direct Samsung contact person for more information



How to access



Register

To register for the Samsung Climate Solutions Partner Portal, open your web browser¹ and go to partnerhub.samsung.com/ climate to complete the registration form.



Access

Your information will be verified and your account will be activated. You will receive your personal login details.



Manage account

Keep your account details up to date and invite your colleagues to join.



Search and download

Access a full library of resources, request technical support, or sign up for a Climate Solutions Academy training

Google Chrome is the recommended web browser for using the Samsung Climate Solutions Partner Portal

Design and support

Design and support

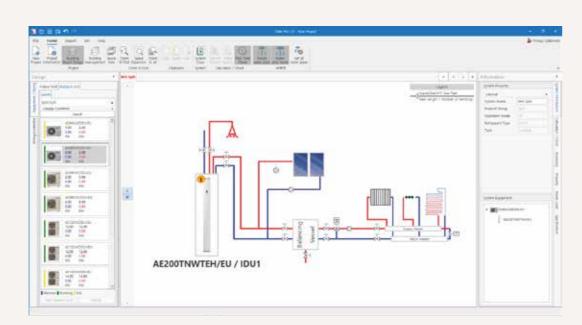
Samsung DVM Pro 2.0

Samsung introduces new updated version of DVM Pro version 2.0. Product selection is extended and now the tool is also available for EHS and HVM lineup.

Samsung DVM Pro 2.0 is an advanced design automation programme which helps you to select the most suitable equipment for easily and precisely designing your air conditioning system. It helps to ensure that the system's design falls within Samsung's engineering guidelines. With its reports, pipe and wire diagrams, additional refrigerant values and other information, Samsung DVM Pro 2.0 is a powerful tool for engineers, designers or installers.

Sales Mode

Sales Mode enables users to define their requirements and select air conditioning products quickly and easily.



Product selection

List of equipment, including indoor units, outdoor units, controls and accessories

Piping schematics

Basic or manual selection with system check and capacity simulation

Control systems

Automatic control unit selection

Reports

Specifications, diagrams in DWG & BMP format, quotations

Performance simulation

Capacity correction tool against specific design conditions

Updated Toolbar NEW

User-friendly tool bar helps to guide intuitively

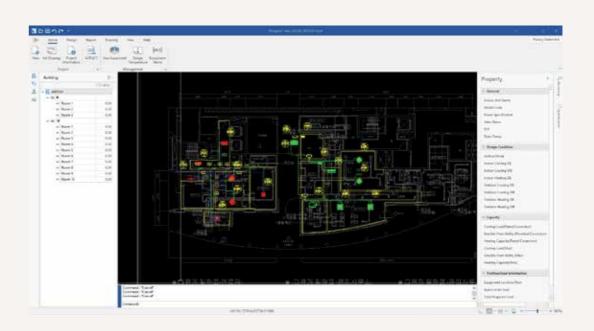
Wiring schematics

Automatic diagrams including communication wiring for indoor/outdoor/control units and electric power meters

CAD Mode

CAD Mode is an in-depth and precise design tool that enables users to design their air conditioning systems using AutoCAD software¹.

¹ Sourced separately.



Pipe sizing & lengths
Refrigerant & drain pipe sizing

System check

Installation regulation & refrigerant charging

Automatic selection Refnet joint, header & distributor kit

Automatic report
Piping installation

Design wihout AutoCAD NEW Compatible with AutoCAD and AutoCAD LT for DWG.

How to access



Register

Go to dvmpro.mkt.samsung.com to access the Samsung DVM Pro 2.0 Portal¹. If you do not have access yet, complete the registration process and you will be sent the access details.



Select

Click on DVM Pro 2.0 via the main menu and scroll to the end of the page to select the option DVM Pro 2.0 download.



Download

Download the DVM Pro 2.0 installation file, view the user manuals, and start designing your project.

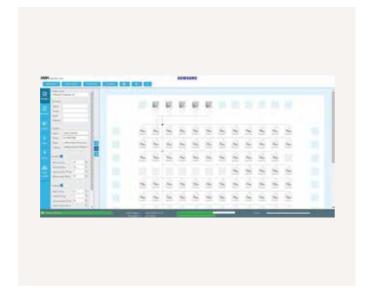
¹Google Chrome is the recommended web browser for using the Samsung DVM Pro 2.0 Portal.

Samsung HVM Selection Tool

To support engineers in designing a Samsung HVM water-based VRF system, Samsung has created an easy-to-use selection tool with convenience in mind. This tool will help you design your whole system in a modular way, simplifying and speeding up the process. The Samsung HVM Selection Tool does not require any software installation and is freely accessible online, giving you a head start in creating and designing your projects for tomorrow.

Easy system configuration

The drag and drop interface of the HVM Selection Tool enables you to configure the HVM system easily and quickly. Based on the configuration selected, the tool generates information such as total water flow and total system pressure drop, enabling you to select the appropriate water pump and piping. Values for cooling and heating are calculated automatically based on the design conditions selected for the project (room temperature, outside temperature, water temperature).





Design and support

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Complete technical information

The HVM Selection Tool includes a detailed list of available outdoor Samsung HVM chiller units and indoor FCU units. It also includes an overview of accessories and essential hydronic components, and features the required efficiency data (SCOP, COP, SEER and EER). To enable the preadjustment of balancing valves, the detailed list of indoor units shows the water flow, pressure drop and pressure difference data for the water line holding the highest pressure drop.



Automated project report

You can opt for a comprehensive annual energy consumption simulation, based on a fixed set of parameters and the climate zone selected for the heating mode (warm, average, cold). High resolution PDF documents can be generated showing the wiring diagrams and hydraulic diagrams for indoor units and outdoor units, including the pipe dimensions. The detailed project report is presented in a layout that is easy to understand.

Tender specifications file

A tender specifications file can be generated that includes full product descriptions, feature explanations and complete technical data. You can also personalise the document by including additional information about the customer and the designer.



How to access



Access

2





20019

To access the HVM Selection Tool, open your web browser¹ and go to hvm.openforce.com. No additional software installation is required.

Create your project, design the HVM system and generate an automated report and tender specifications file online.

If you require support, please consult the manual that can be downloaded directly from the HVM selection tool.

¹ Google Chrome is the recommended web browser for using the Samsung Climate Solutions Partner Portal

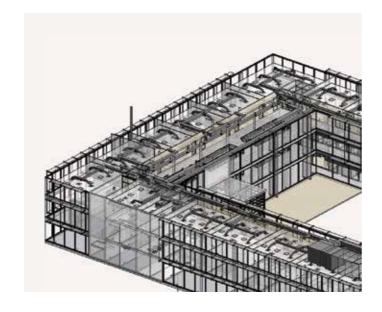
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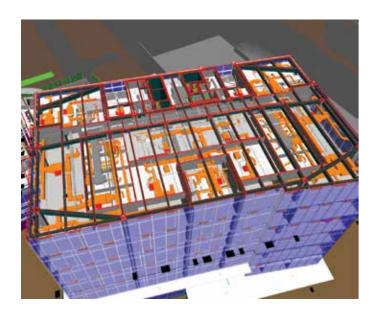
Samsung specialist design support

Bringing together technical expertise and practical experience in climate system design, Samsung provides a single point of contact for the design and management of cooling and heating installations in buildings. With assistance ranging from 3D visualisations with BIM support to CFD analysis to optimise indoor thermal conditions and BREEAM advice to achieve the best environmental performance, Samsung's specialist engineers are ready to support you in making your project a success.

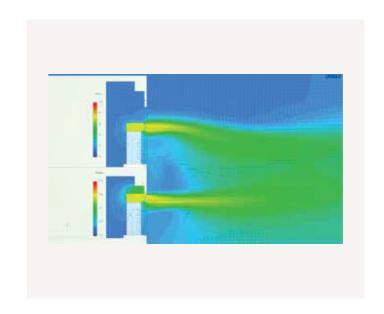
BIM support

Building Information Modelling (BIM) is an intelligent 3D model-based process for creating and managing information on the physical and functional characteristics of a building, across the project lifecycle and covering all parties involved, including the supply chain. BIM gives architects, engineers and construction professionals the insights and tools necessary to efficiently plan, design, construct and manage buildings and infrastructure.





To support you as one of our Climate Solutions partners, Samsung has developed a full range of BIM models for all VRF and VRF Chiller products. You can download these 3D models directly from Samsung Partner Portal or from an online BIM object library by accessing bimobject.com. Alternatively, you can call on our qualified Samsung engineering team for dedicated project design support, using Revit® software to create 3D plans of the building including Samsung air conditioner installations.



CFD analysis

Computational Fluid Dynamics (CFD) uses numerical analysis and data structures to analyse thermal conditions in buildings. It allows the virtual testing and optimisation of various climate system configurations in the context of occupant comfort, energy efficiency and running cost. Samsung can offer you specialist CFD support that includes analyses such as indoor temperature profiling, airflow distribution and sound simulation.

BREEAM advice

BREEAM (BRE1 Environmental Assessment Method) is one of the most widely used environmental assessment methods and rating systems for buildings. It sets the standard for best practice in sustainable design and has become the de facto measure used to describe a building's environmental performance. Samsung's Accredited Professionals (APs) can support you in assessing the optimal installation for achieving a high certification score to match your green building programme.



How to obtain support



BIM support



CFD analysis



To download Samsung BIM models, go tho Technical Resources on

partnerhub.samsung.com/climate¹. To request dedicated project design support from Samsung, please contact your Samsung representative.

To obtain CFD analysis support from Samsung, please contact your Samsung representative. Certain conditions may apply, subject to the project.

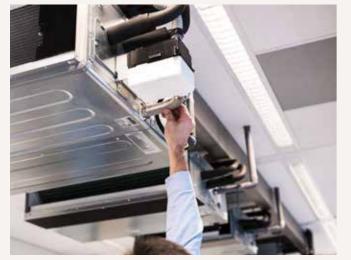
Please contact your Samsung representative to request a BREEAM evaluation by one of Samsung's Accredited Professionals (APs).

BREEAM evaluations

¹ Google Chrome is the recommended web browser for using the Samsung Climate Solutions Partner Portal

Samsung Climate Solutions Academy

Samsung Climate Solutions Academy is committed to providing engineers with the technical skills required to install a Samsung product efficiently, and to help relay necessary information to users. All courses are designed to provide attendees with the opportunity to develop both theoretical and practical knowledge of Samsung's vast range of equipment and solutions.





Samsung training centres in Europe

United Kingdom - Mansfield **United Kingdom** - Chertsey Poland - Warsaw The Netherlands - Amsterdam

France - Lyon •

• Italy - Milan

Portugal - Lisbon •

• Spain - Madrid

Greece - Athens



How to register for training



Available training modules

Essential courses: Basic commercial training

- The product line-up, accessories and available controls
- The unique features of Samsung products
- Installation considerations

Advanced courses: **Technical training**

- How to correctly install and configure a system
- Commissioning: common issues during commissioning and how to resolve any challenges
- Troubleshooting and fault-finding
- (by use of E-codes)
- Control logic Case studies

Advanced courses: **Design training**

- Understanding customers' needs and offering possible solutions
- DVM Pro 2.0 Samsung's advanced design tool
- Case studies



Search

To check for available training courses, go to Samsung Business Academy (SBA) via the Samsung Climate Solutions Partner Portal¹: partnerhub.samsung.com/climate. Search the online event calendar and select the training course you would like to attend.



After identifying the training course you would like to attend, follow the registration process. Once you have registered successfully you will receive a confirmation e-mail.



Get certified

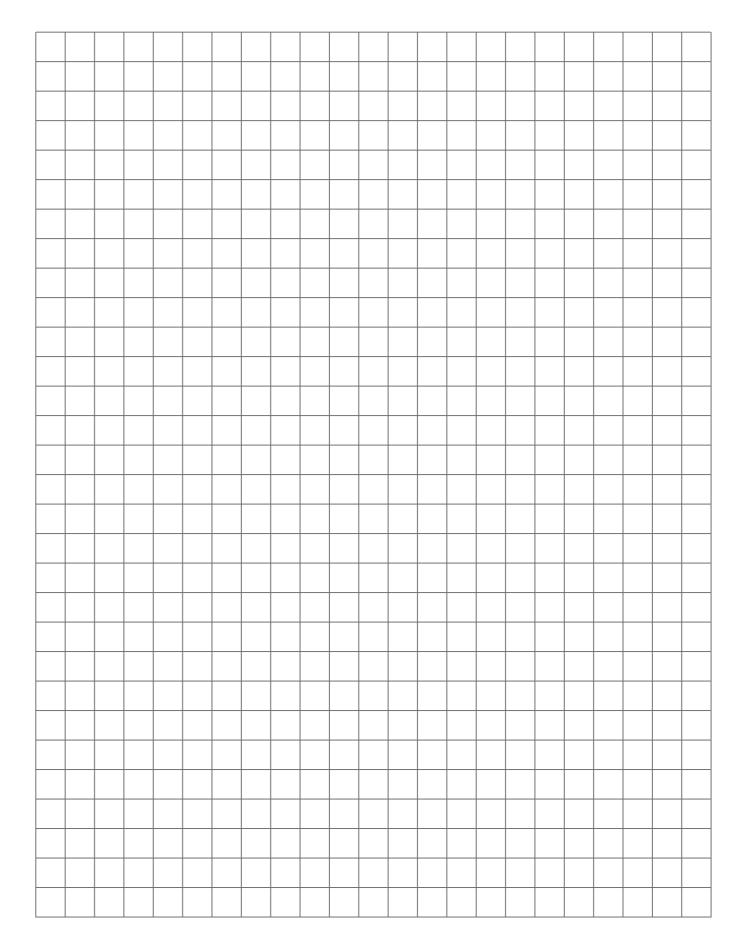
Following confirmation of your registration, we will invite you to one of our training centres. You will be trained by one of our specialised Master Trainers or Product Specialists, and receive a Certificate of Completion.

Note: the registration process for and availability of training courses may vary per country. Please contact your Samsung representative for more information

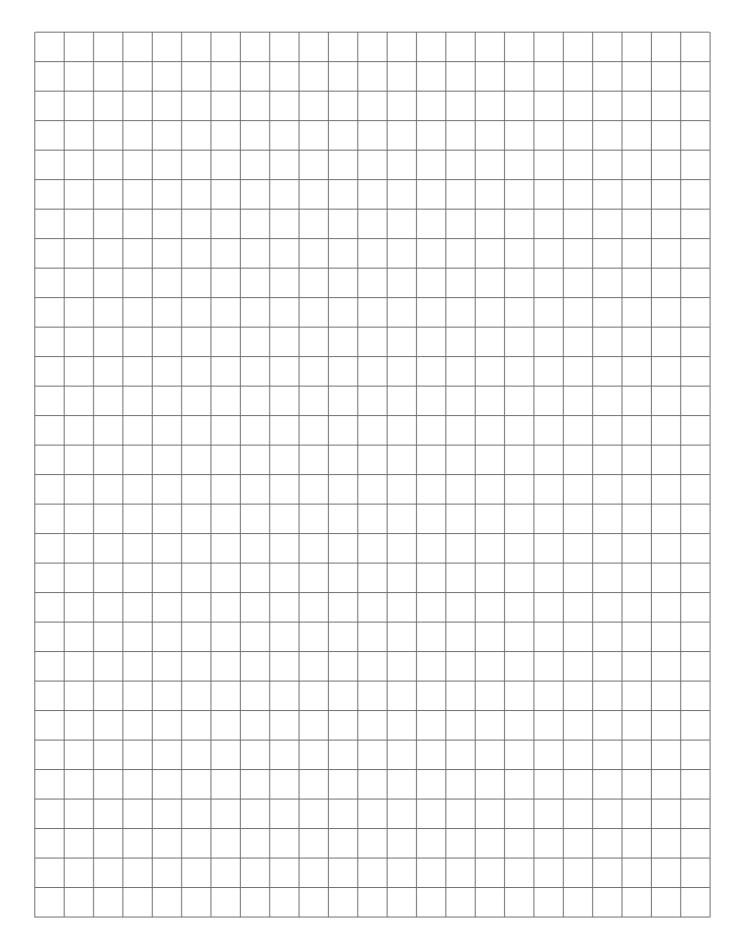
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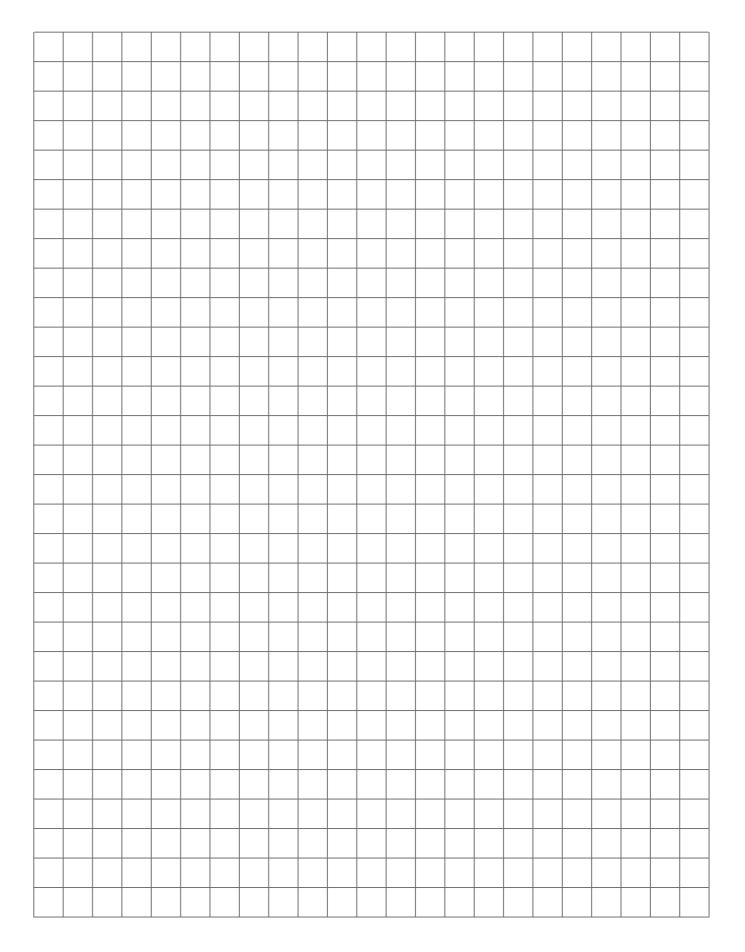


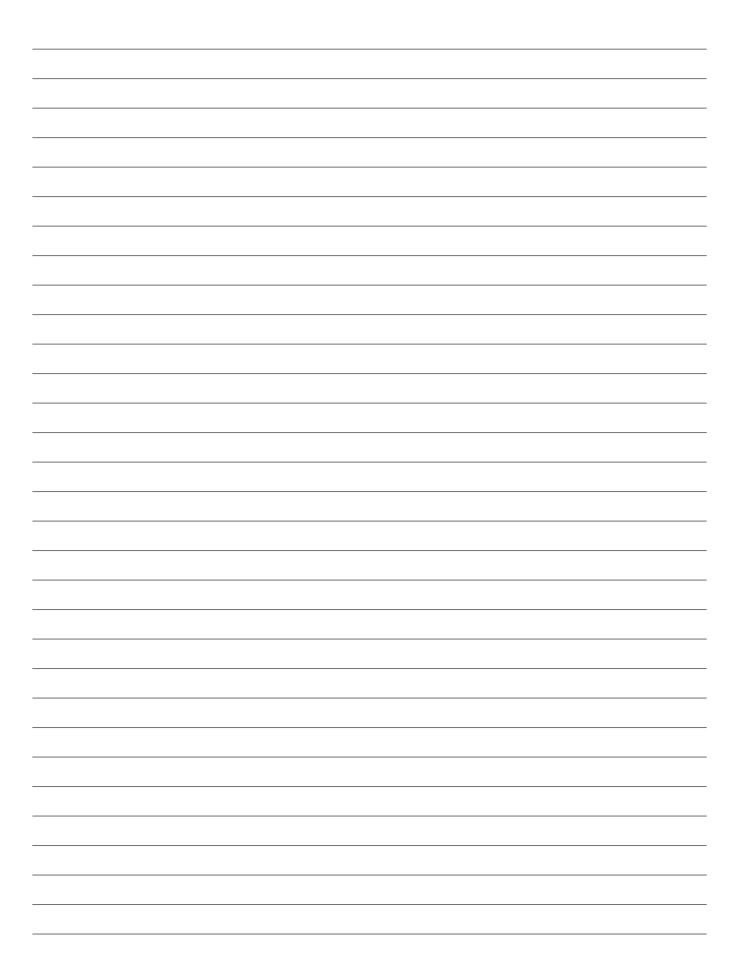


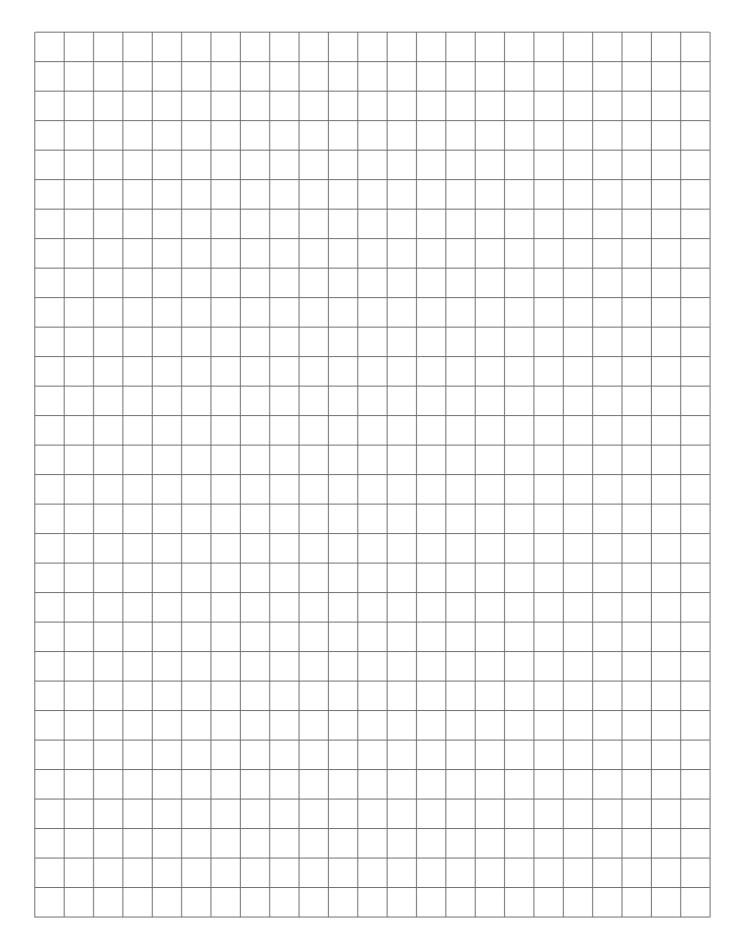




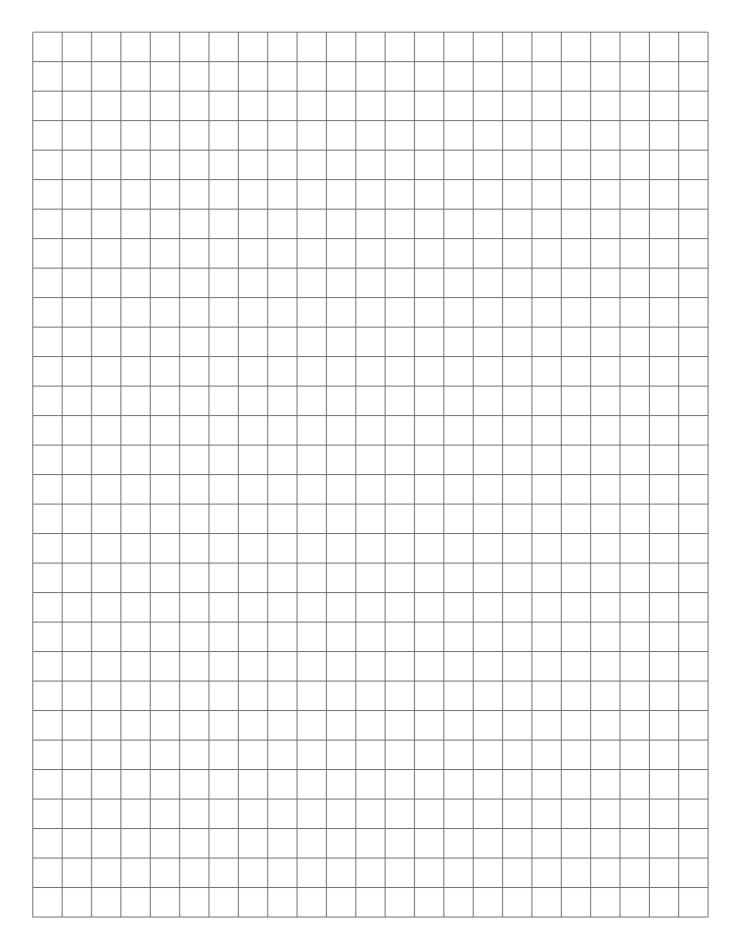


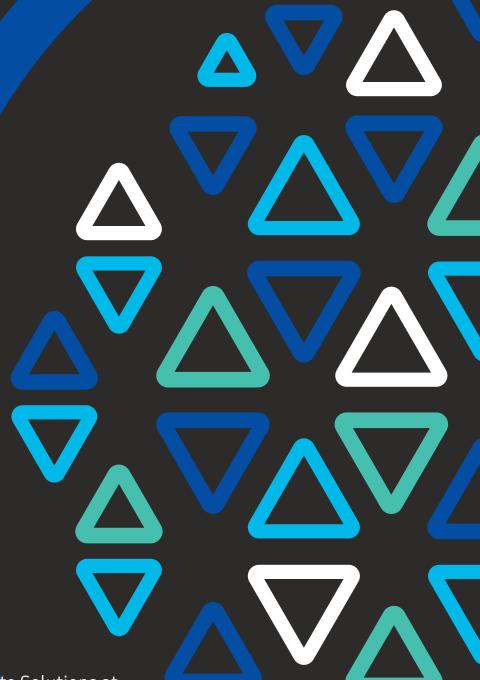












Learn more about Samsung Climate Solutions at: www.samsung.com/climate

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Samsung Electronics Co., Ltd. participates in the Eurovent Certification Programme (ECP) for Air Conditioners (AC), Variable Refrigerant Flow (VRF) and Liquid Chilling Packages Heat Pump (LCP-HP). To check the ongoing validity of certification, please visit: www.eurovent-certification.com

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