

Highlights for 2023

DVM_{S2}

Samsung has been manufacturing DVM (Digital Variable Multi) outdoor units for 20 years. In 2021, Samsung introduced 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 technologies that are significantly more efficient.
- Active Al 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, even at low temperatures, providing non-stop comfort in the coldest conditions.



Unique Indoor Range

In 2022, we added a new WindFree[™] 4-Way Cassette for FCU to our signature WindFree[™] 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 moving at speeds below 0.15 m/s, which lacks the presence of cold draughts. 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.

^{*} Now available in FCU

Premium Panels

Samsung has introduced 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 filter maintenance 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

- Easy and safe maintenance of the filter therefore indoor air quality
- Dedicated remote controller
- Stylish design

b.IoT Lite

The integrated control solution optimized for Samsung's HVAC system provides operational convenience and energy savings.



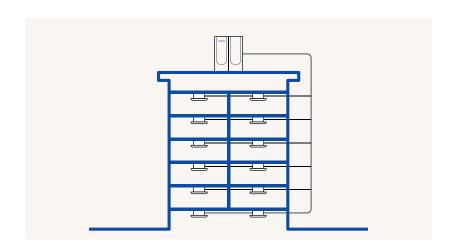
- Suitable for small and medium sized buildings
- Differentiated control screen
- Operation history management
- Convenient control authority setting
 Management of connected devices (open protocol support for 3rd party devices)
- Energy saving for air conditioning (embedded algorithm)
- Energy use management

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 %, Staphylococus aureus: above 99 %)

Product overview

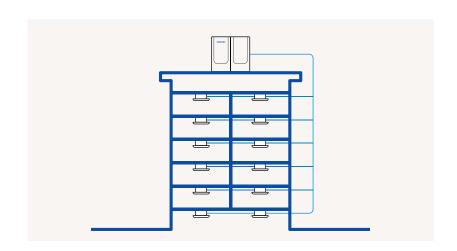
VRF (DVM)

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.



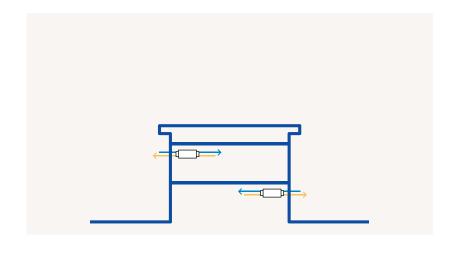
VRF Chiller (HVM)

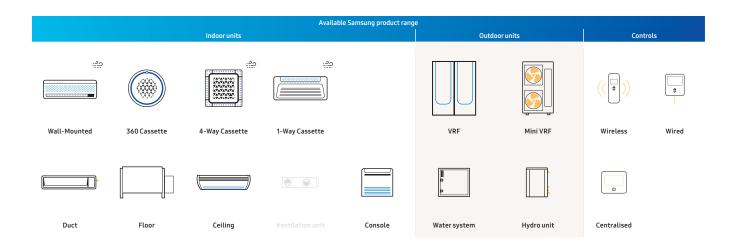
A Samsung VRF Chiller air conditioning system follows a modular concept with the option of combining up to 16 HVM outdoor units to form one climate solution, which can be connected to a wide range of Fan Coil Units. The system utilises water for comfortable cooling and heating of any type of space.

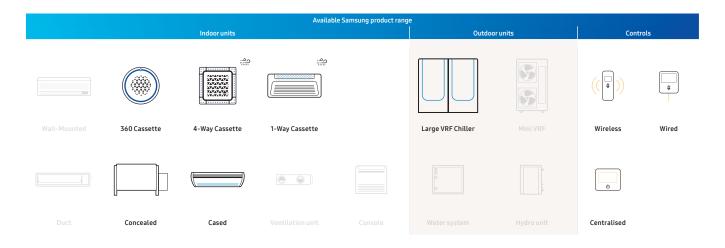


Ventilation (ERV)

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 solution.







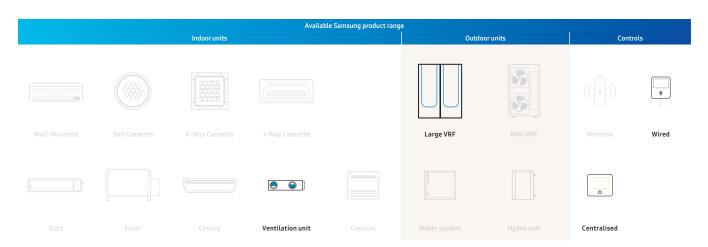




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LSP Slim Duct

MSP/HSP Duct S

WindFree™ Deluxe UNIQUE

WindFree™ 4-Way Cassette UNIQUE

WindFree™ 1-Way Cassette UNIQUE

360 Cassette

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 NEW

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 NEW

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

LSP Duct

MSP Duct

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) UNIQUE

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 UNIQUE

WindFree™ 4-Way Cassette FCU UNIQUE

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

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

Samsung Climate Solutions aims to help people find their flow, so they may feel and live their best life – be it at work, play or rest. We are committed to offering more energy-efficient solutions with innovative cooling, heating, domestic hot water, refrigeration and smart building solutions. For every space where people create memorable experiences together, be it commercial spaces or residential homes.

Residential

Commercial

Heating

Controls

We offer:

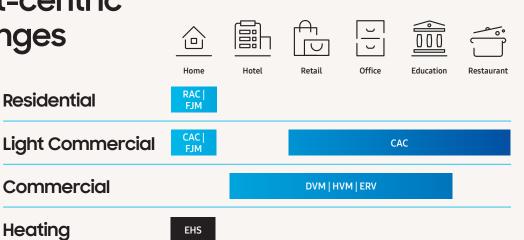




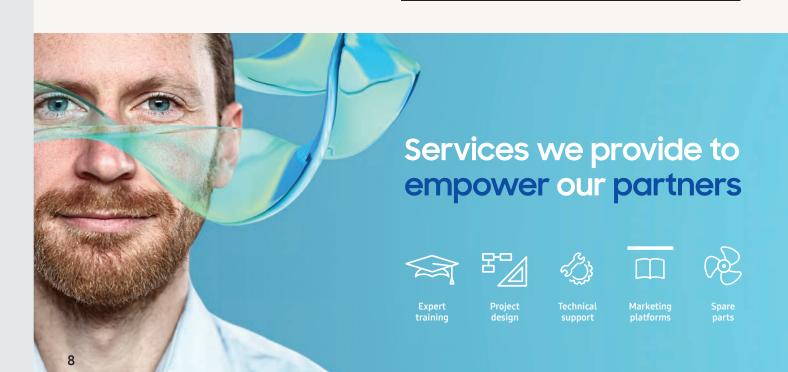




Our market-centric product ranges



CONTROLS



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



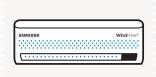
Arrival of the Samsung TDM concept, an all-in-one heat pump solution for heating, cooling and domestic hot water supply.

2015



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

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.







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.
- 16 | Samsung offices
- 8 | Warehouses
 - 9 | Training centres



Samsung reference projects in the spotlight **Aria Hotel, Budapest**







Management Team

Aria Hotel Budapest

Aria Hotel is an iconic luxury boutique hotel in downtown Budapest, Hungary where one may frequently encounter Hollywood stars, world-famous pop singers, and other celebrities from all around the world. The hotel is one of the six hotels belonging to the award-winning The Library Collection, a hotel chain famous for unique interior design and an exquisite attention to details. The interior design of Aria Hotel Budapest was, for example, inspired by music: a spectacular piano is placed in the centre of the lobby, and the rooms are organized around different musical genres. The hotel combines the lavish atmosphere of a historic Hungarian palace while also embracing visitors in the warmth and comfort of a private residence.

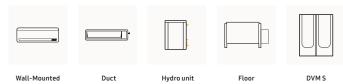
Various Samsung systems have been running in the hotel since its opening in 2015. Gábor Fodor, Operational Manager of Aria Hotel Budapest explains "Thanks to the central control, we can reach every single unit on the same system from our control room. The hydro units provide hot water for the rooms, the kitchen and the spa. The air handling units supply fresh air, and the ducted indoor units are responsible for the cooling and heating of the rooms. We really love working with the Samsung systems because of their high level of efficiency and the intuitiveness of the units. We can safely rely on Samsung for the technical needs of our facility. They definitely help make our lives easier so we can focus on the wellbeing of our guests."

Application



Hote

Samsung products installed



Regulations and standards

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

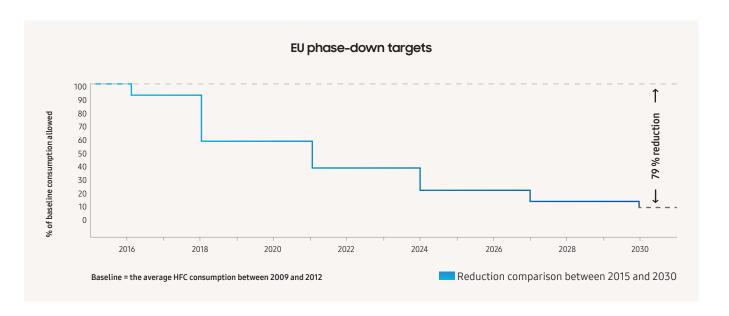
on 26 September 2015 and include residential air to water heat pumps for space heating and hot water production respectively (< 400 kW). It is mandatory to provide energy labels for products with a capacity less than 70 kW. On 1 January 2018, LOT 21 came into force. LOT 21 covers commercial cooling and 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	CAC DVM HVM		

F-Gas regulation

The EU aims to reduce the environmental impact of F-gases through the reduction of the CO_2 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 CO_2 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.

WEEE: Electronic Waste

Samsung adheres to the WEEE (Waste Electrical and Electronic Equipment) Directive. This Directive applies to the principles of extended producer responsibility. It stipulates the safe collection, treatment, recycling and environmentally sound disposal of all electrical and electronic equipment. By working with collective recycling schemes in each EU member state Samsung co-finances the take-back and recycling of electronic products.

Batteries

Samsung has been giving new life to used batteries by funding collection, treatment and recycling by local battery recycling organisations.

Packaging

Samsung works together with recycling schemes and governmental organisations to collect, separate and reuse all packaging materials at various points in the distribution chain. Many materials can be recycled into new products and recycling helps to save natural resources. Recycling packaging helps to reuse valuable raw materials and to reduce the overall impact on the environment.

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.



Innovations in detail



DVM_{S2}

Higher Energy Efficiency

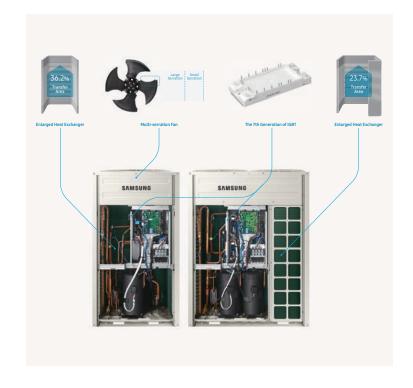
The DVM S2 is equipped with four innovative technology components that together result in the DVM S2 delivering greater energy efficiency.

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 the smaller platform¹ and 23.7 % greater heat transfer on the larger platform². The power module which is an integral part of the inverter system is improved as it lowers heat dissipation and saves energy.

The aerodynamic Multi-serration Fan minimizes the turbulence of the air vortex, which reduces the air resistance. The high efficiency Multi-Serration fan lowers power consumption by 32 % while providing more airflow³. The unit uses a superior Samsung scroll compressor 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.





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 algorithms.

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 refrigerant level by analyzing various operating data from the outdoor unit, and helps maintain the optimal amount of refrigerant by alarming before the problem occurs.

^{20 %} faster cooling based on internal testing of the cooling operation, with the temperature set at 22 °C and using Auto mode for 4 hours, at a room temperature of 33 °C and an external temperature of 35 °C. The tested model was an AM080AXVGGH/EU connected to AM083NN4BHD1 and AM145NN4DBH1 indoor units with 25 m of piping. The elapsed times were measured when the room temperate reached 25 °C. The second of the consumption is reduced with an AM080AXVGGH/EU 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 °C and a set temperature of 22 °C. Results may

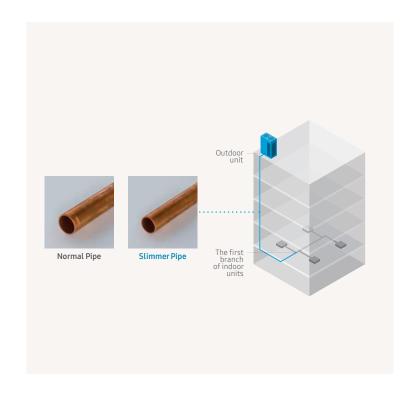
vary depending on the actual installation and usage conditions, such as the piping length, elevation and external temperature

Slimmer Liquid Line -(Optional Diameter Reduction)

The DVM S2 requires less refrigerant as it can use a slimmer liquid line¹. So, it saves costs on the installation and maintenance of refrigerant and piping materials. In addition, the decreasing of pipes can result 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.

- A slimmer liquid line can be used between an outdoor unit and the first branch of indoor units. 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 with certain in functions of outdoor units. Please contact Samsung's technical professionals regarding its availability and for more detailed information.

 Based on internal measurements. 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.





AFI (Advanced Flash Injection) Compressor™

The Samsung AFI Compressor™ 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 even at low 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 compared to the previous generation of DVM S.

Samsung circulates 14.400 cc/sec refrigerant (= 90 cc (displacement volume) x 160 rps (revolutions per second)), while Company A circulates 12,480cc/sec (= 96cc x 130rps), Company B circulates 14,080cc/sec (= 88cc x 160rps) and Company C circulates 12,320cc/sec (=88cc x 140rps).

Innovations in detail

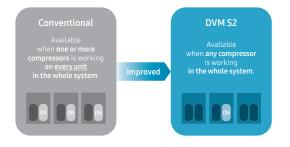


DVM_{S2}

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.

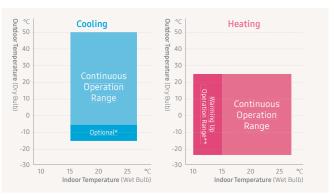


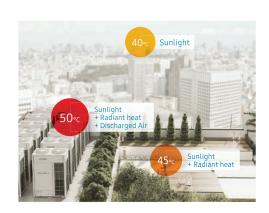
ь.		Emergency Operation		
E)	Example Cases of Malfunction		DVM S2	
	When there are 2 or more units in a system, and one of the two compressors on a unit is not working.	Yes	Yes	
n	When there are 2 or more units in a system, and one of the two compressors on each unit is not working.	Yes	Yes	
	When there 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	
î	When there is 1 unit in a system, and one of the two compressors on it is not working.	Not Available	Yes	

Stable Performance in a Wide Range of Temperatures

The DVM S2 operates in a wider range of weather conditions, delivering a more stable performance compared to the first generation of DVM S. It operates across a wide temperature spectrum. It can cool during a heat of up to 50 °C and provide warmth during freezing cold conditions of up to -25 °C, ensuring a constant comfortable indoor environment throughout the year.

The wide operating range is particularly helpful as most DVM S2 will be installed on the rooftop of a building. Here the unit is directly exposed to sunlight and the radiant heat of the rooftop as well as to the discharged air of the other outdoor units.





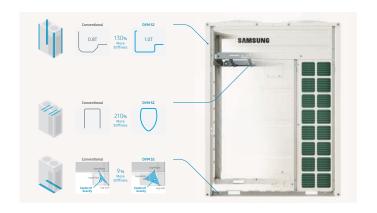
When the 'Expand Operational Temperature Range' option is applied; the low limit of the cooling operation range can be expanded from -5°C to -15°C. Only available on HR models and under certain conditions. **if the indoor temperature is lower than 15°C, it can work in heating mode but it cannot operate continuously due to a protection control, delivering thus a more stable performance than the DVM S.

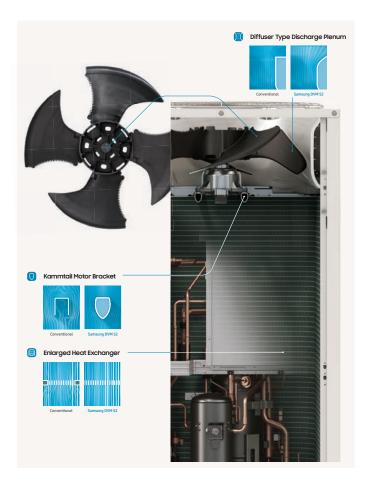
Lasting Performance in Challenging Weather Conditions

The Samsung DVM S2 is equipped with the new and innovative design features that are proven to significantly enhance its durability¹. These include the robust frame, the Kammtail motor bracket and an improved structure of the legs of the unit.

In addition, it features anti-corrosion capabilities on the heat exchanger and chassis, due to the new Durafin™ Ultra fin coating, and the Galvanized Iron Steel Plate casing with a PE powder coating of up to 100μm thickness. These features were proven to ensure a maximum durability in challenging weather conditions.2

- Based on a test in accordance with ICC ES AC156: 2010 (SDS=2.5g, z/h=1), conducted by SGS Korea Co., Ltd. Result Report No.: SGS-R20-1599-KR00
 Based on internal testing using corrosion chambers, Q-FOG and CCT-1100. The Complex Cycle Test (ICCT) includes cycles of spray (for 2 hours at 35 °Celsius), dry (for 4 hours at 60 °C s with 30% Relative Humidity) and damp (for 2 hours at 50 °C with 95% Relative Humidity) conditions. As a result, the Galvanized Iron Steel Plate (GI) formed red rust after 240 hours, which is 43% slower than general Electro-Galvanized Steel Plate (EGI), which forms red rust after 168 hours.



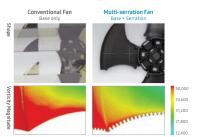


Quiet operation: improvements on core elements

The DVM S2 reduces fan noise by minimizing the air vortex due to the unique Multi-serration Fan¹. In addition, it works quietly and efficiently at night due to its quiet operation feature.

Along with the Multi-serration Fan, the Samsung DVM S2 includes a new range of technologies that support the unit's air flow optimization, namely: the Diffuser Type Discharge Plenum, Kammtail Motor Bracket and the Enlarged Heat Exchanger. Thanks to these technologies the air flows smoothly and quickly, minimizing the turbulence of the air vortex, thus resulting in less noise².

- Only available on model of 33.6W or less. The shape of the fan may vary by model and region. Based on internal testing and stimulation using a fluid dynamics software, Ansys CFX. Results may vary depending on the actual usage conditions.



Comparison of vorticity based on the design of the edge

Innovations in detail



DVM S2

Extended Installation Flexibility

The Samsung DVM S2 maximizes space without compromising on the quality of its performance. It is 33%¹ smaller compared to the previous DVM S generation. The DVM S2 compact design enables outdoor units to be installed even inside the building. This can be especially important for high-rise buildings. It can result in freeing up valuable amounts of space. The DVM S2 is designed to enhance installation flexibility within the building, due to the 110Pa External Static Pressure². This function effectively discharges air through a longer duct, making it a suitable choice for high-rise buildings.



SAMSUNG 1.695mm 930mm

- Based on the AM140AXVAGH/EU, compared to the same capacity models of companies. May vary by model and depending on the actual condition of the ductwork and installation location. For more detailed information, please contact Samsung's technical professionals.



Convenient handling

The Samsung DVM S2 is designed to increase convenience with its updated features: the Center Point Indicator of Weight and the Simplified Cover with Handle, making it easier to transfer, install and service, while securing more safety with less effort.

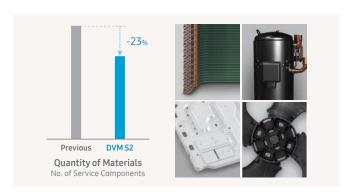
In addition, it includes a service window that can be accessed easily when servicing, without opening the whole cabinet.



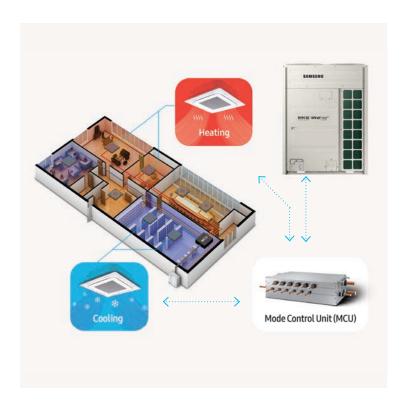
Fewer parts, less effort and cost for service

The Samsung DVM S2 consists of optimized modular components that come in fewer parts compared to the previous generation of Samsung's DVM S.

Based on its Quality-based Modular Design (QMD), the DVM S2 is built with high-quality modules that were preselected and preconfigured. It delivers both superior performance and reliability. Additionally, it saves up significant warehouse space, as it does not come in multiple parts.







Independently Cools and Heats Multiple Spaces

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 specifications allow).





Innovations in detail



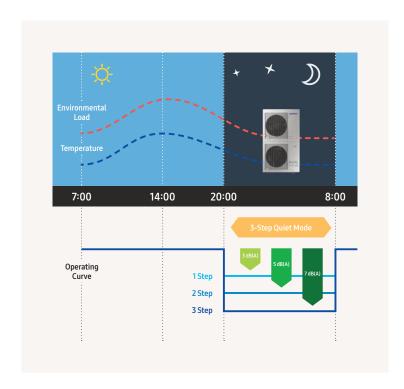
DVM S Eco

High capacity in a compact design

DVM S Eco combines a high capacity up to 12 HP. 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 makes good use of valuable space with a compact design. With a height of just 1210 mm and a small footprint of only 0.318m², its overall volume is 5% less than competing models¹. It makes it a convenient space-saving option in offices and can be installed easily in a wide range of locations.

Based on internal testing. Height comparison in 6HP models: Samsung DVM S ECO = 1210mmm vs. Model of a competing brand = 1380mm.





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 environment.

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

¹ Based on internal testing comparing silent mode with regular operating mode. 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.



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.





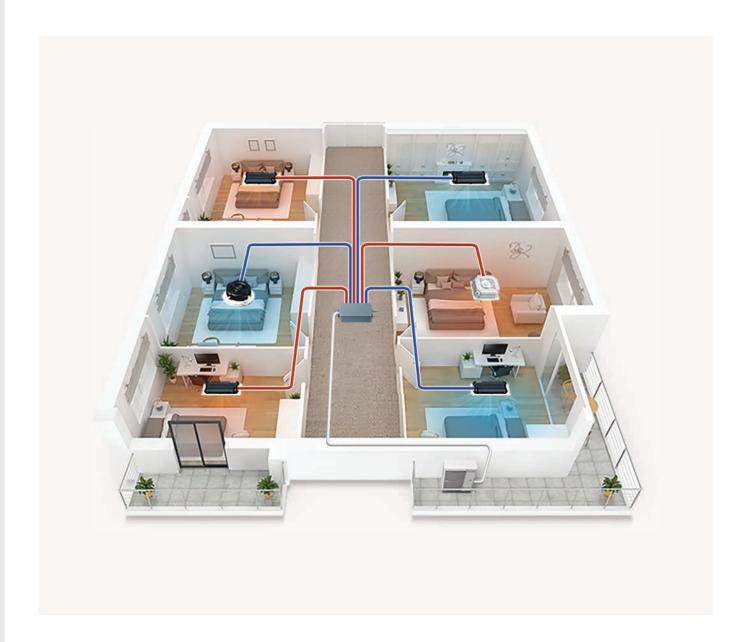
Geothermal applications

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.

Innovations in detail



Heat Recovery for DVM



Compact Heat Recovery solution

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).



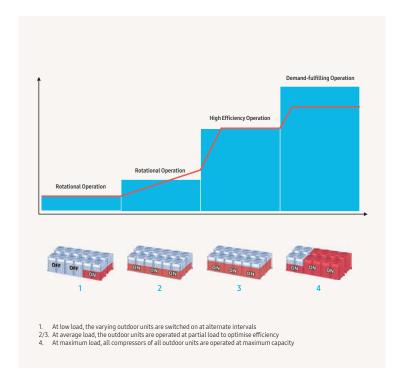
HVM Chiller

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 Samsung Fan Coil Unit Interface Module HVM Chiller On/Off (Linked with Chiller) Central Controller Third party pumps and hydronic components

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 easy.

Innovations in detail



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

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

Innovations in detail



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.



Indoor discharge temperature

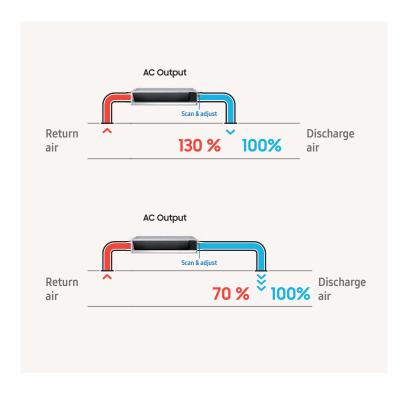
Each ducted indoor unit, or Air Handling Unit (AHU) kit, boosts discharge air temperature control function that offers greater comfort without the need to change the outdoor unit setting. Cooling and heating options can be selected using a remote control, and this applies to all ducted/AHU connected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

¹Based on model AM***AN*PKH/EU

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.



Installation flexibility and easy maintenance with a lightweight and compact Slim Fit design

The compact and lightweight Slim Fit Design allows you to fit your air conditioner unit into small spaces, thus facilitating its handling as well as the set up. This means you can now install it in most places within a building with minimum difficulty.



Innovations in detail



Airzone

Integrated Zoning Solution

Airzone provides centralised control and improvement in energy performance to Samsung ducted applications.

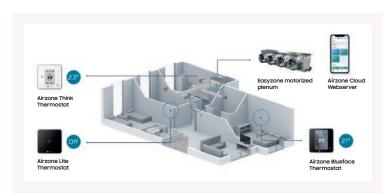
This third party solution offers the possibility to control the temperature of up to 8 zones or rooms separately. The Airzone plenum with dampers determines the required airflow to each room to meet the desired temperature.

Airzone's multiple zoning control solution can be easily connected to Samsung's ducted systems and allows for a reduction in maintenance operations and refrigerant charge compared to installing separate AC units for each zone.

Unlike other third party solutions, Airzone uses Samsung's communication protocol to control the needed airflow. If there is no demand, the indoor unit is stopped. This avoids unwanted operation; therefore increases the energy efficiency of the system.







- Available for IOS and Android Voice control is supported by Al speakers; Google Assistant (Google Home) and Amazon Alexa Google Assistant is not available in certain languages and countries. Google is a trademark of Google LLC Airzone is not compatible with SmartThings and SmartThings App

Flexibility and Smart Operation

The integrated zoning system from Airzone with smart control allows for optimized energy efficiency, as temperatures in the different zones can be independently controlled. This translates into energy efficiency since the AC unit will not unnecessarily cool or heat unoccupied zones.

Each damper is controlled by an Airzone room controller either wired or wireless. In addition, Airzone also allows controlling the room temperature remotely with the Airzone Cloud App¹, Google Assistant^{2,3} and Amazon Alexa^{2,4}.



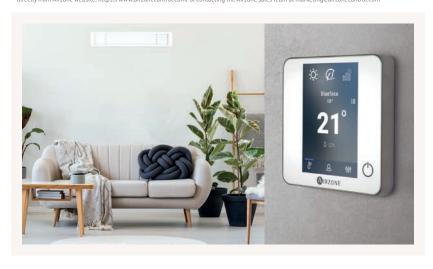


Airzone⁵ compatible models

Product Group	Samsung Model Code	Detail	Dimensions (W×H×D)	3 Port	4 Port	5 Port	6 Port	8 Port
DVM	AM017ANLDKH/EU	DUCT LSP1.7kW	700×199×440	AZEZ8SAMSL03S3				
DVM	AM022ANLDKH/EU	DUCT LSP 2.2kW	700×199×440	AZEZ8SAMSL03S3				
DVM	AM028ANLDKH/EU	DUCT LSP 2.8kW	700×199×440	AZEZ8SAMSL03S3				
DVM	AM036ANLDKH/EU	DUCT LSP 3.6kW	700×199×440	AZEZ8SAMSL03S3				
DVM	AM045ANLDKH/EU	DUCT LSP 4.5kW	700×199×440		AZEZ8SAMSL03M4			
DVM	AM056ANLDKH/EU	DUCT LSP 5.6kW	700×199×440		AZEZ8SAMSL03M4			
DVM	AM071ANLDKH/EU	DUCT LSP 7.1kW	1100×199×440			AZEZ8SAMSL03L5		
DVM	AM090ANLDKH/EU	DUCT LSP 9kW	1300×295×690			AZEZ8SAMST04L5	AZEZ8SAMST04L6	AZEZ8SAMST04L8
DVM	AM112ANLDKH/EU	DUCT LSP11.2kW	1300×295×690			AZEZ8SAMST04L5	AZEZ8SAMST04L6	AZEZ8SAMST04L8
DVM	AM128ANLDKH/EU	DUCT LSP12.8kW	1300×295×690					AZEZ8SAMST04XL8
DVM	AM140ANLDKH/EU	DUCT LSP14kW	1300×295×690					AZEZ8SAMST04XL8
DVM	AM017KNLDEH/EU	DUCT LSP1.7kW	700×199×440	AZEZ8SAMSL03S3				
DVM	AM022KNLDEH/EU	DUCT LSP 2.2kW	700×199×440	AZEZ8SAMSL03S3				
DVM	AM028KNLDEH/EU	DUCT LSP 2.8kW	700×199×440	AZEZ8SAMSL03S3				
DVM	AM036KNLDEH/EU	DUCT LSP 3.6kW	700×199×440	AZEZ8SAMSL03S3				
DVM	AM045MNLDEH/EU	DUCT LSP 4.5kW	700×199×440		AZEZ8SAMSL03M4			
DVM	AM056MNLDEH/EU	DUCT LSP 5.6kW	700×199×440		AZEZ8SAMSL03M4			
DVM	AM071MNLDEH/EU	DUCT LSP 7.1kW	1100×199×440			AZEZ8SAMSL03L5		
DVM	AM090MNLDKH/EU	DUCT LSP 9kW	1300×295×690			AZEZ8SAMST04L5	AZEZ8SAMST04L6	AZEZ8SAMST04L8
DVM	AM112MNLDKH/EU	DUCT LSP11.2kW	1300×295×690			AZEZ8SAMST04L5	AZEZ8SAMST04L6	AZEZ8SAMST04L8
DVM	AM128MNLDKH/EU	DUCT LSP12.8kW	1300×295×690					AZEZ8SAMST04XL8
DVM	AM140MNLDKH/EU	DUCT LSP14kW	1300×295×690					AZEZ8SAMST04XL8
DVM	AM022ANMPKH/EU	DUCT MSP 2.2kW	850×250×700	AZEZ8SAMST06XS3				
DVM	AM028ANMPKH/EU	DUCT MSP 2.8kW	850×250×700	AZEZ8SAMST06XS3				
DVM	AM036ANMPKH/EU	DUCT MSP 3.6kW	850×250×700	AZEZ8SAMST06S3	AZEZ8SAMST06S4			
DVM	AM045ANMPKH/EU	DUCT MSP 4.5kW	850×250×700	AZEZ8SAMST06S3	AZEZ8SAMST06S4			
DVM	AM056ANMPKH/EU	DUCT MSP 5.6kW	850×250×700	AZEZ8SAMST06S3	AZEZ8SAMST06S4			
DVM	AM071ANMPKH/EU	DUCT MSP 7.1kW	850×250×700	AZEZ8SAMST06M3	AZEZ8SAMST06M4	AZEZ8SAMST06M5	AZEZ8SAMST06M6	
DVM	AM090ANMPKH/EU	DUCT MSP 9kW	1200×250×700			AZEZ8SAMST06L5	AZEZ8SAMST06L6	AZEZ8SAMST06L8
DVM	AM112ANMPKH/EU	DUCT MSP11.2kW	1300×300×700					AZEZ8SAMST06XL8
DVM	AM128ANMPKH/EU	DUCT MSP12.8kW	1300×300×700					AZEZ8SAMST06XL8
DVM	AM140ANMPKH/EU	DUCT MSP14kW	1300×300×700					AZEZ8SAMST06XL8

$Communication\ gateway\ for\ all\ models:\ AZX6GTCSA2$

⁵ Airzone is a third party and not part of Samsung, Airzone Plenum with damper, wired & wireless thermostats and gateway, can be purchased directly from Airzone website: https://www.airzonecontrol.com/or contacting the Airzone sales team at marketing@airzonecontrol.com/



Innovations in detail



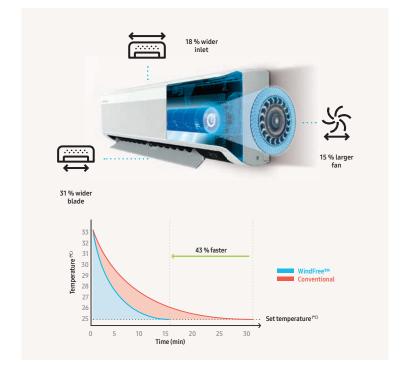


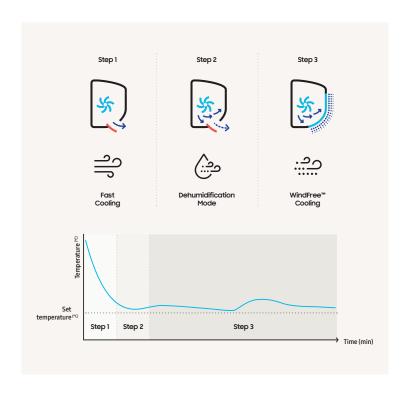
WindFree™ Deluxe

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 compared to Samsung conventional model1. This means that cool air is dispersed farther and wider into every corner of a room, reaching up to 15 metres².

- Tested on the AM022TNVDKHEU model compared with the Samsung conventional
- AM022JNVDKHEU model
 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.





WindFree™ Cooling mode

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.

- ¹ 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.
 ² Tested on the AR12TXCAAWKNEU 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.
 ³ Tested on the AR12TYCAAWKNAP model under specific testing conditions, based on the power consumption of Fast Cooling mode vs. WindFree™ Cooling mode.

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.





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 and group devices. With the optional Wi-Fi Kit, the different aspects of the system with up to 16 connectible indoor units can be controlled via smartphone.

¹ 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.





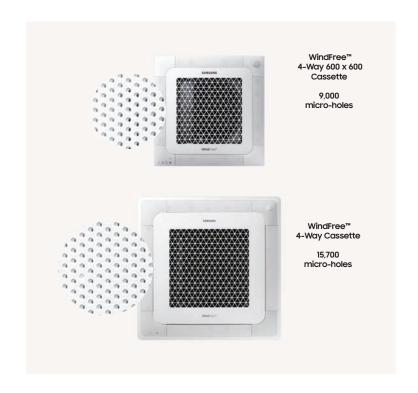
WindFree™ 4-Way Cassette

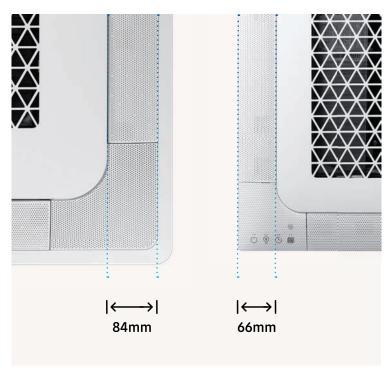
WindFree[™] Technology

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 drafts.

The WindFree™ 4-Way Cassette is now available in FCU.

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.





Optimised blades

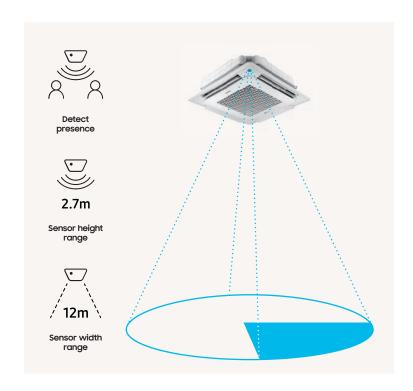
The larger optimised blades¹ (84 mm WindFree™ 4-Way Cassette, 66 mm WindFree™ 4-Way 600 x 600 Cassette) facilitate a wider cooling range and improved air circulation within the room. This advanced technology also cools the space much faster leaving no zone untouched. These blades are detachable and can 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 cleaner environment.

¹ Samsung testing compares the WindFree™ 4-Way and WindFree™ 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.

WindFree™ 4-Way Cassette

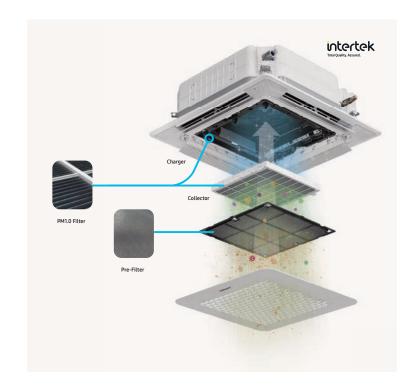
Air Purification Panel

The Air Purification Panels in the WindFree™ 4-Way Cassette contain two types of filters to enhance the mitigation of certain Particulate Matter (PM), aimed to keep the indoor air cleaner 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 coll: above 99 %. Stabhylococcus aureus: above 99 %).



4m Pre-Filter

Not all features are available for all models.

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.

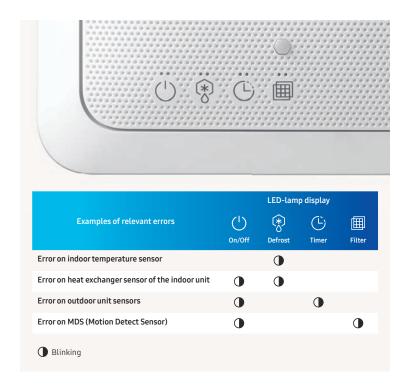
¹ May vary based on the actual usage conditions.

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.





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 problem.



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.





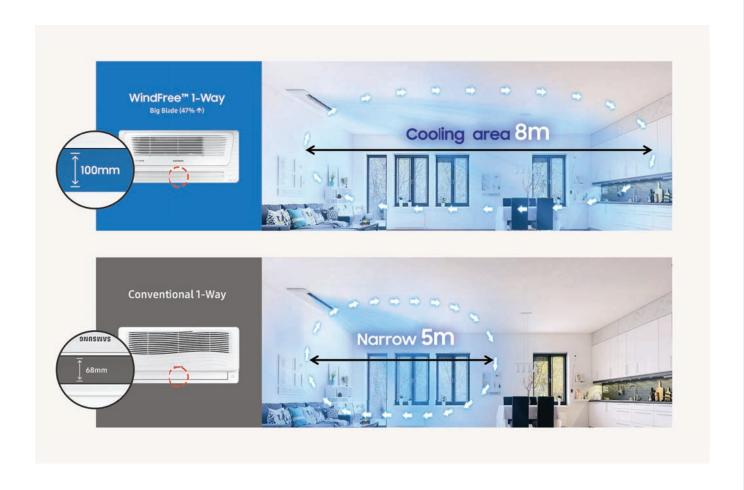
Not all features are available for all models.

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.

¹ 135 mm is the height of the unit until the ceiling tile. 145 mm is the height including the ceiling tile. Up to 3.6 kW (DVM) 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.

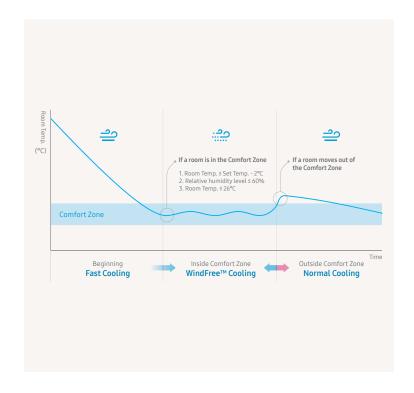
Samsung testing compares the WindFree™ 1-Way Cassette to a conventional 1-Way Cassette-type air conditioner.
 Based on the 7.1 kW indoor unit.

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.

¹ The humidity level will only be shown during WindFree™ operation and Dry Mode via the SmartThings app display.





Not all features are available for all models.

Easy Maintenance

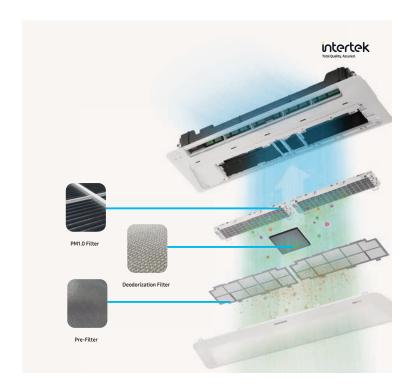
The Samsung WindFree™ 1-Way Cassette requires no duct work. You simply need to regularly clean the built-in filter with water, after removing it from your air conditioner.

Air Purification Panel

The Air Purification Panels in the WindFree™ 1-Way Cassette contain three types of filters to enhance the mitigation of certain Particulate Matter, aimed to keep the indoor air cleaner 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-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 %)







360 Cassette

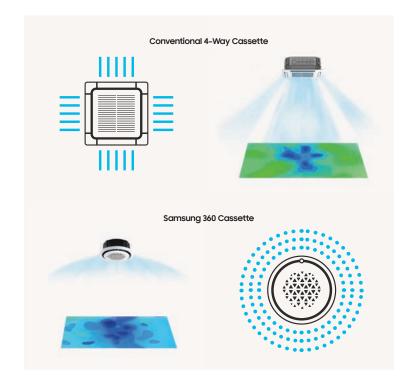
Circular airflow

Unlike traditional 4-Way Cassette units¹, which create areas of uneven airflow $\!\!\!^2$, 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.

- ¹ Samsung testing compares the 360 Cassette to a conventional 4-Way Cassette type air conditioner.
- Conductioner.

 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.



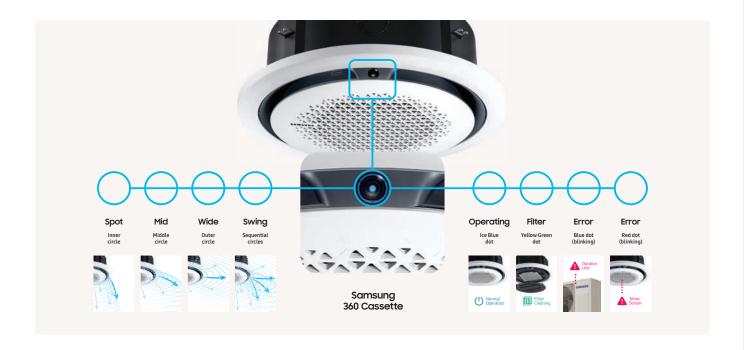


Not all features are available for all models.

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.

¹ 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.

360 Cassette

Air Purification Panel

The Samsung 360 Cassette offers an Purifying Panel that keeps the indoor air fresher and cleaner. 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 μ m 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 https://doi.org/10.1006/j.coccus.





Not all features are available for all models.

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.

¹ May vary based on the actual usage conditions.



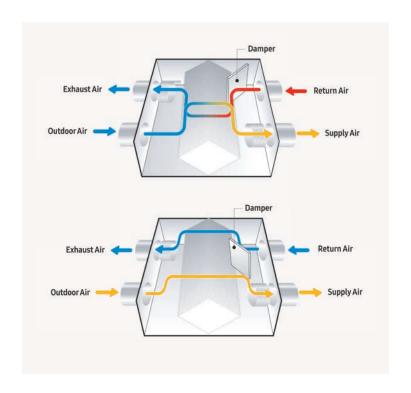


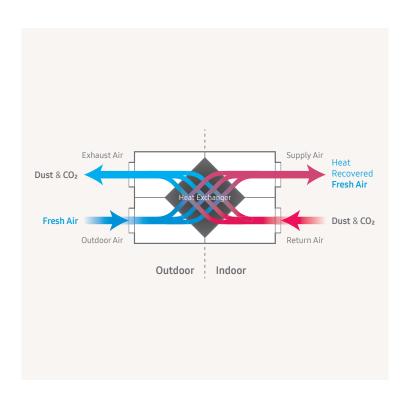


ERV (Plus)

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.





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 the 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 Optional

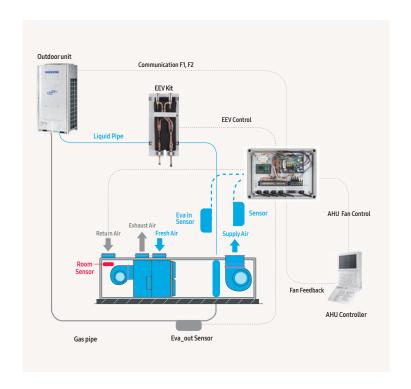
Air Handling Unit (AHU) Kit

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



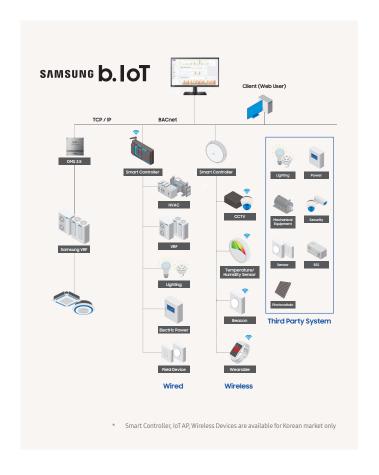
¹ Please contact your local Samsung representative for more information.

b.loT

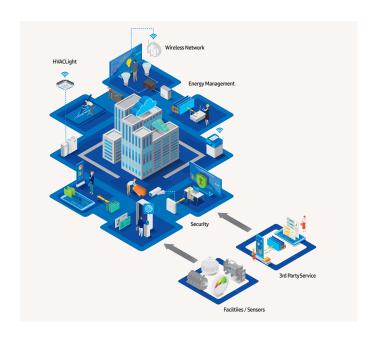
Samsung b.IoT (building Internet of Things) is a building management solution that can efficiently manage and save energy. It is an open platform with expandability and compatibility options that enable integrated control of the facility's major systems, such as VRF and third-party party devices via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



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) products
- Intuitive Graphic UI & convenient rules editor for various solutions
- Trends & alarm lookup



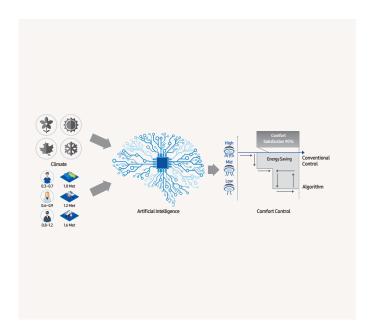


Effective energy usage management

- 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

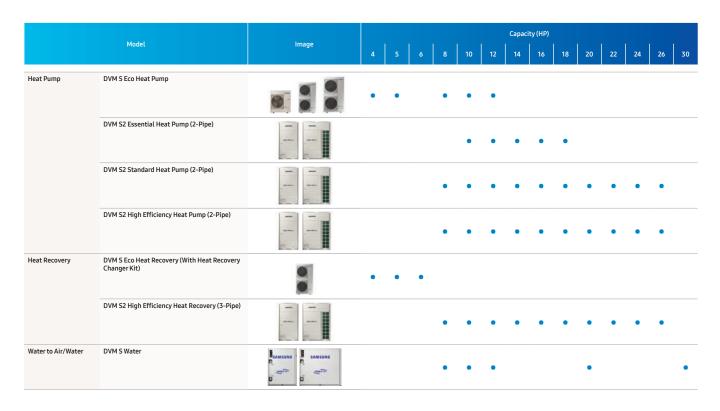


VRF





Line-up outdoor



Line-up indoor

Model	lmage				,	Capacit	y (kW)			,	
Houce	illuge	1.5	1.7	2.2	2.8	3.6	4.5	5.6	6.0	7.1	8.2
WindFree™ 1-Way Cassette	(prints)		•	•	•	•		•		•	
WindFree™ 4-Way 600 x 600 Cassette		•		•	•	•	•	•	•		
WindFree™ 4-Way Cassette					•	•	•	•		•	
360 Cassette							•	•		•	
LSP Duct (drain pump excluded)			•	•	•	•	•	•		•	
LSP Duct (drain pump included)			•	•	•	•	•	•		•	
MSP Duct (drain pump included)				•	•	•	•	•		•	
HSP Duct								•		•	
Console				•	•	•	•				
Floor/Ceiling								•		•	
Big Ceiling											
Concealed Floor-Standing						•		•		•	
Packaged Floor-Standing											
Boracay Wall-Mounted (EEV included)		•		•	•	•	•	•		•	
Boracay Wall-Mounted (EEV excluded)	- 7	•		•	•	•	•	•		•	
WindFree™ Deluxe (EEV included)	-	•		•	•	•	•	•		•	•
WindFree™ Deluxe (EEV excluded)	-	•		•	•	•	•	•		•	•
Max Wall-Mounted											
Hydro Unit HE											
Hydro Unit HT											

- NOTE

 Make sure to use an indoor unit that is compatible with DVM 52.

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

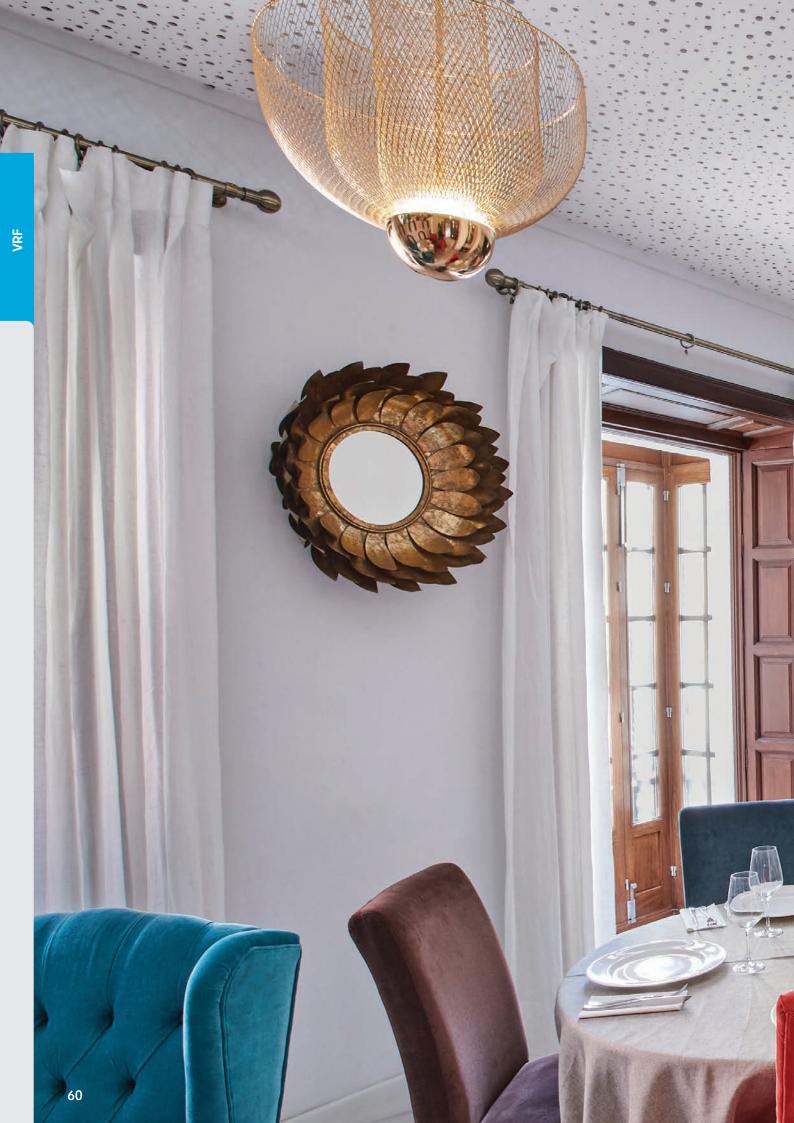
 If the total capacity of the connected indoor units exceeds the indicated maximum capacity, the cooling and heating capacity of the indoor unit may decrease.

 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.

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

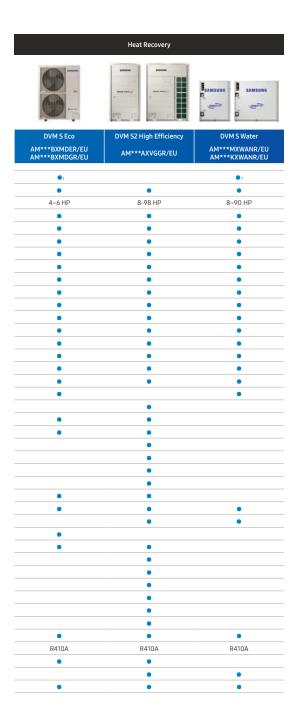




Selection guide

Model		DVM	S Eco	DVM S2 Essential	DVM S2 Standard	DVM S2 High Efficiency
		AM***BXMDEH/EU AM***BXMDGH/EU	AM***BXMWGH/EU	AM***AXVDGH/EU	AM***AXVAGH/EU	AM***AXVGGH/EU
Туре	Heat Pump	•	•	•	•	•
	Heat Recovery					
	Capacity range	4-8 HP	8-12 HP	10-40 HP	8-98 HP	8-98 HP
Connectability	WindFree™ Cassette	•	•	•	•	•
	360 Cassette	•	•	•	•	•
	LSP Duct	•	•	•	•	•
	MSP Duct	•	•	•	•	•
	HSP Duct	•	•	•	•	•
	ERV Plus/OAP Duct	•	•	•	•	•
	Wall-Mounted	•	•	•	•	•
	Ceiling/Concealed/Floor-Standing	•	•	•	•	•
	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 °C²		•	•	•	•
	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 AI Pressure Control			•	•	•
	Active AI 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	•	•	•	•	•

¹ Can be connected as a 2-pipe system. ² Model specific. ³ Optional.



Selection guide



Model		WindFree™1-Way Cassette	WindFree™ 4-Way Cassette	360 Cassette
Airflow	WindFree™ Cooling	•	•	
	360 Degree Air Supply			•
Air Purification	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		'	'	<u>'</u>	'
	360 Degree Air Supply					
Air Purification	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					



LSP Duct	MSP Duct	HSP Duct
•	•	•
•	•	•
•	•	•
	•	Model-specific
•	•	•
Model-specific	•	Model-specific



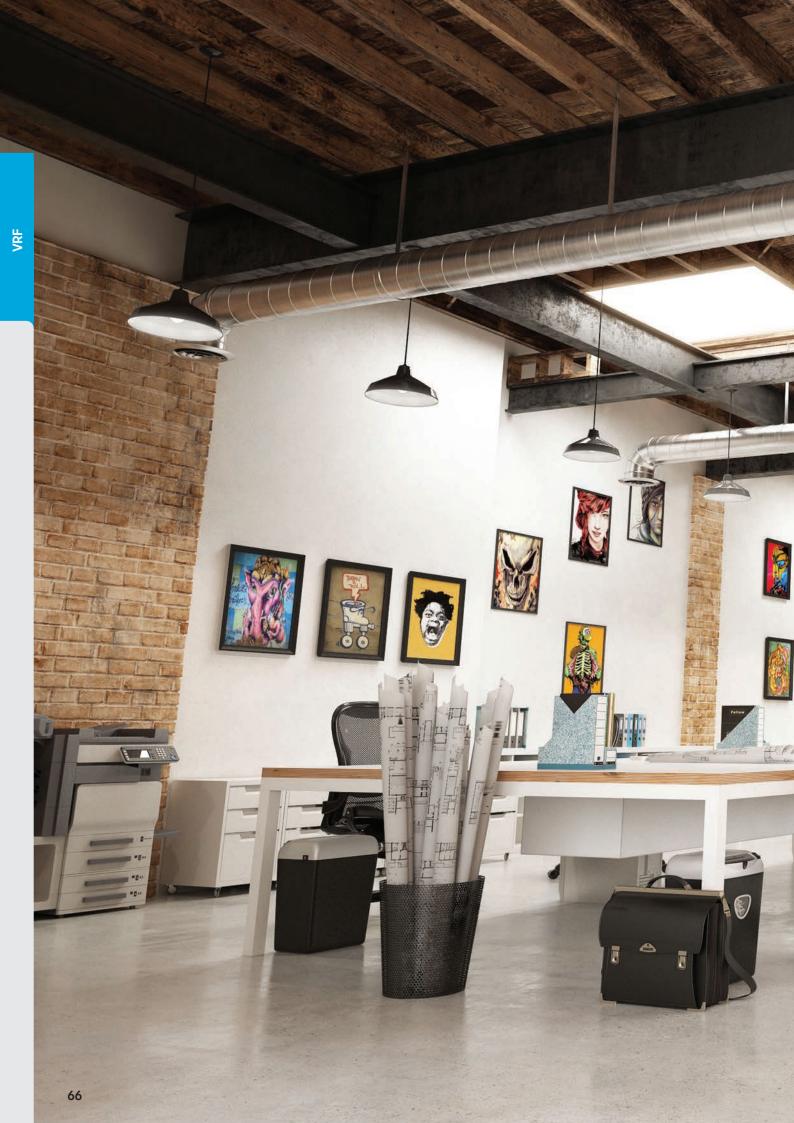
Model-specific

Model-specific¹

•

•

•



Nomenclature

Indoor units



	Classification	AM	VRF (DVM)
	Classification	AN	Ventilation (ERV)
2	Capacity		x1/10 kW (3 digits)
		F	2013
		Н	2014
		J	2015
	Version	К	2016
		М	2017
		N	2018
		R	2019
		т	2020
		Α	2021
		N	Indoor Unit (NASA)
	Product Type	S	ERV
		1	WindFree™ 1-Way Cassette
		4	360 Cassette & WindFree™ 4-Way Cassette
		N	WindFree™ 4-Way 600 x 600 Cassette
		L	Low Static Pressure Duct (Slim Duct)
		М	Medium Static Pressure Duct
		Н	High Static Pressure Duct
		E	Outdoor Air Processing Duct
		С	Ceiling
		J	Console
	Product Notation	F	Floor-Standing
		P	Packaged Floor-Standing
		Т	Boracay Wall-Mounted (EEV excluded)
		Q	Boracay, Max Wall-Mounted (EEV included)
		Α	AR5000 Wall-Mounted (EEV excluded)
		V	AR5000 Wall-Mounted (EEV included)
		В	Hydro Unit
		К	ERV (Plus)
		w	DVM S Water
		F	Flagship
	Feature	Р	Premium
	reature	D	Deluxe
		S	Standard
		E	1Ф, 220~240 V, 50 Hz
	Voltage Rating	K	1Ф, 220~240 V, 50/60 Hz
		G	3Ф, 220~240 V, 50 Hz
		Н	Heat Pump (R410A)
	Mode	В	Heat Pump (R134A)
		N	ERV

Outdoor units



1	Classification	АМ	VRF (DVM)			
2	Capacity	x1/10 HP (3 digits)				
		К	2016			
		М	2017			
		N	2018			
3	Version	R	2019			
		T	2020			
		Α	2021			
		В	2022			
4	Product Type	Х	Outdoor Unit			
		V	DVM S 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			
0	reacule	G	High EER + General Temperature + Module			
		D,W	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.

- Four-way direction piping connection.







	Model			AM040BXMDEH/EU	AM050BXMDEH/EU	AM080BXMDGH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	3Ф, 4, 380–415 V, 50 H
Performance	НР		HP	4	5	8
	Capacity	Cooling	kW	12.1	14	22.4
		Heating	kW	12.1	14	22.4
	Maximum number of connectable indoor units	EA	6	8	13	
	Total capacity of the connected indoor units	Min.	kW	5.6	7	11.2
		Max.	kW	15.7	18.2	29.1
Power	Power Input	Cooling	kW	3.9	5.19	10.98
rowei		Heating	kW	3.23	4.12	6.4
	Current Input	Cooling	A	17.8	23.8	17.2
	Carrentinpat	Heating	A	14.8	18.9	10
	Current	Minimum SSC value	MVA	- 14.0	-	3.4
	Current					
		MCA	A	24	27	18.4
1		MFA	A	32	40	25
inergy Efficiency ¹	EER (Nominal Cooling)		W/W	3.1	2.7	2.04
	COP (Nominal Heating)		W/W	3.75	3.4	3.5
	SEER (Cassette)		W/W	7.6	7.35	6
	SCOP (Cassette)		W/W	4.2	4.4	4.25
Compressor	Туре		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Output		kW × n	4.04 x 1	4.04 x 1	4.78 x 1
	Oil	Туре	-	PVE	PVE	PVE
		Initial Charge	СС	1,700	1,700	1,700
an	Type & Discharge direction		-	Propeller	Propeller	Propeller
			-	Horizontal	Horizontal	Horizontal
	Number of Fans		EA	1	1	2
	Airflow Rate		m³/min	64	70	135
	External Static Pressure	Max.	mmAq	3	3	3
			Pa	29.4	29.4	29.4
an Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	125 x 1	139 x 1	139 x 2
Piping Connections	Liquid Pipe		ø, mm	9.52	9.52	9.52
iping connections	Elquid 1 ipc		ø, inch	3/8	3/8	3/8
	Gas Pipe		ø, mm	15.88	15.88	19.05
	Gas Fipe					
	District Locate (ODII IDII)3	M (F)	ø, inch	5/8	5/8	3/4
	Piping length (ODU-IDU) ³	Max. (Equiv.)	m	50 (65)	50 (65)	100 (130)
	Piping length (1st Branch - IDU) ³	Max.	m	40	40	40
	Total piping length (System)	Max.	m	150	150	300
	Level Difference (Outdoor in highest position)	Max.	m	30	30	30
	Level Difference (Indoor in highest position)	Max.	m	25	25	30
	Level Difference (IDU-IDU) ³	Max.	m	15	15	30
Wiring Connections	Communication	Min.	mm²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Туре				R410A(Fluorinated greenhouse gas, GWP=2,088)	
	Factory Charging		kg / tCO₂e	2.00/4.18	2.50/5.22	3.70/7.73
ound ²	Sound Pressure	Cooling	dB(A)	53	56	58
		Heating	dB(A)	56	58	59
	Sound Power		dB(A)	70	73	73
External Dimensions	Net Weight		kg	79	84	115
	Net Dimensions (W x H x D)		mm	940 x 998 x 330	940 x 998 x 330	940 x 1,420 x 330
Operating	Cooling		°C	-5.0~48.0	-5.0~48.0	-5.0~48.0
Temperature Range			°C		***	







AM080BXMWGH/EU	AM100BXMWGH/EU	AM120BXMWGH/EU		
3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz		
8	10	12		
22.4	28	33.6		
22.4	28	33.6		
13	18	21		
11.2	14	16.8		
29.1	36.4	43.6		
9.96	12.73	14.3		
5.89	7.78	9.21		
15.6	20	22.4		
9.2	12.2	14.4		
3.4	4.6	5.1		
18	21.5	23.5		
25	30	30		
2.25	2.2	2.35		
3.8	3.6	3.65		
6.3	6.4	6.5		
4.25	4.15	4.5		
Scroll Inverter	Scroll Inverter	Scroll Inverter		
5.18 x 1	6.39 x1	6.39 x 1		
PVE	PVE	PVE		
1,100	1,100	1,100		
Propeller	Propeller	Propeller		
Horizontal	Horizontal	Horizontal		
2	2	2		
135	165	166		
3	3	3		
29.4	29.4	29.4		
BLDC Motor	BLDC Motor	BLDC Motor		
139 x 2	244 x 2	244 x 2		
9.52	9.52	12.70		
3/8	3/8	1/2		
19.05	22.22	28.58		
3/4	7/8	11/8		
100 (130)	160 (185)	160 (185)		
40	40	40		
300	300	300		
50	50	50		
40	40	40		
50	50	50		
0.75	0.75	0.75		
F1, F2	F1, F2	F1, F2		
	A(Fluorinated greenhouse gas, GWP=2			
3.70/7.73	4.30/8.98	4.80/10.02		
5.7677.75	58	60		
59	64	64		
73	74	76		
135	155	162		
940 x 1,420 x 330	940 x 1,630 x 460	940 x 1,630 x 460		
-5.0~48.0	-5.0~52.0	-5.0~52.0		
-5.0~48.0	-5.0~52.0			
-20.0~24.0	-zo.u~z4.U	-25.0~24.0		

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

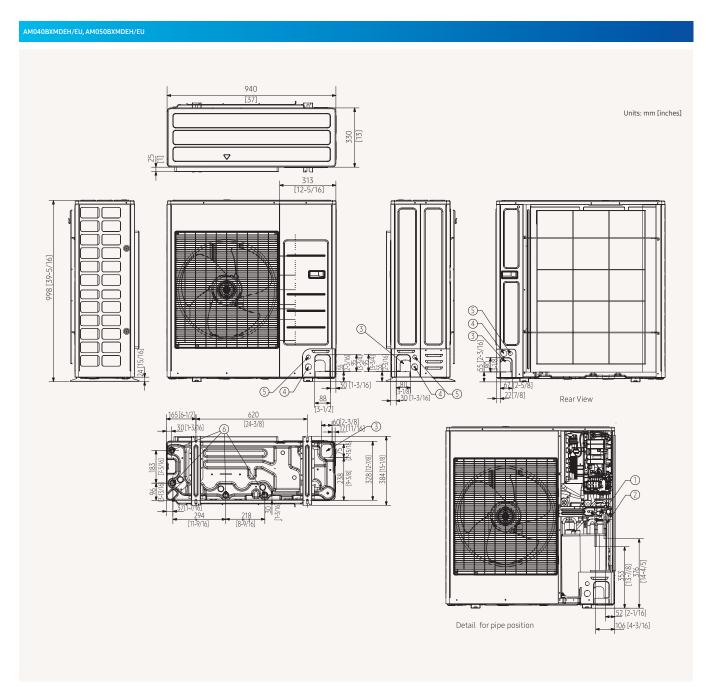
²Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

³ODU: Outdoor Unit, IDU: Indoor Unit

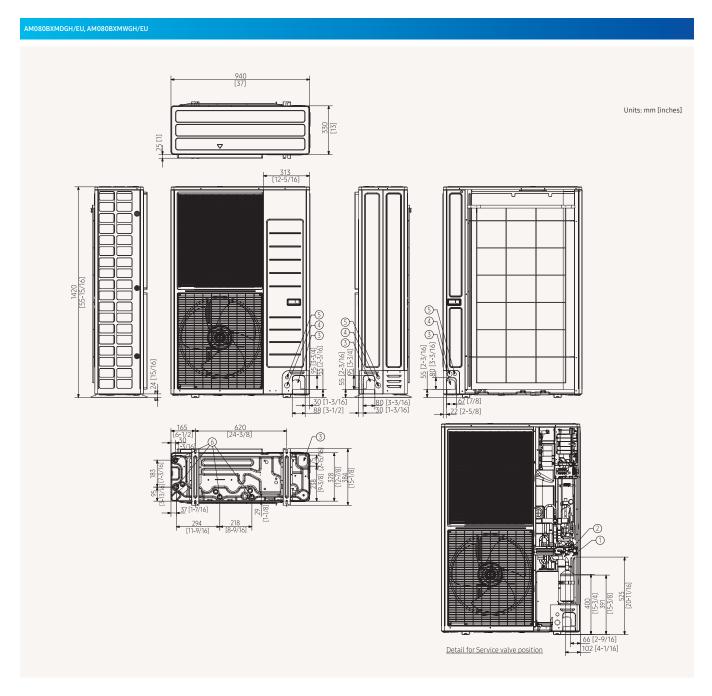


Dimensional drawings

DVM S Eco Heat Pump

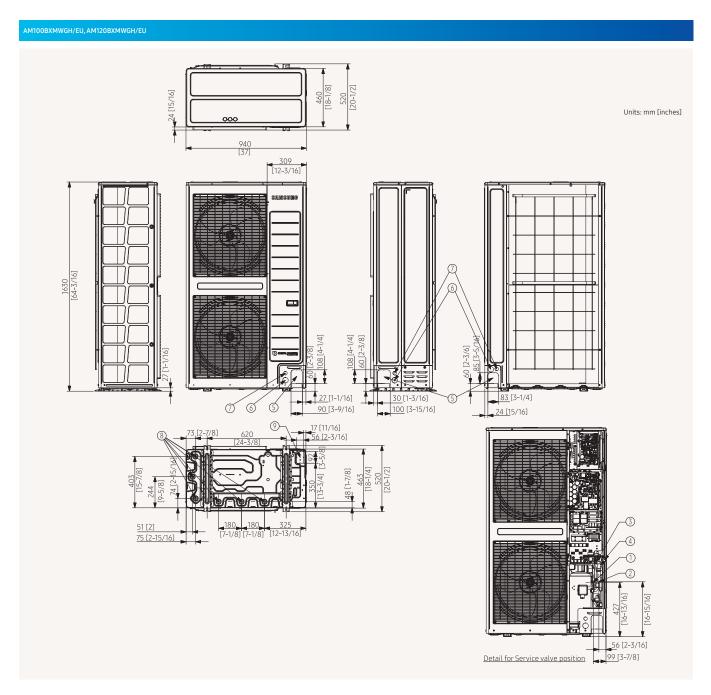


NO	Name	Description
		4/5 hp
1	Refrigerant liquid pipe	ø9.52 (ø3/8)
2	Refrigerant gas pipe	ø15.88 (ø5/8)
3	Knock-out hole for pipe intake	Front/Side/Rear/Bottom
4	Power wiring conduits	Front/Side/Rear, ø34.00 (ø1 3/8)
5	Communication wiring conduits	Front/Side/Rear, ø22.00 (ø7/8)
6	Drain holes	Connect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

DVM S Eco Heat Pump



NO	Name	Description			
		10 hp	12 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/Si	de/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	Bott	tom		



DVM S2 Essential Heat Pump (2-Pipe)

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

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









	Model			AM100AXVDGH/EU	AM120AXVDGH/EU	AM140AXVDGH/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 H
Performance	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	A	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
	ŋs.c		%	237	253	245
	ŋs.h		%	161	169	161
ompressor	Туре		-	Inverter Scroll x 1	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
an	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Vertical	Vertical	Vertical
	Number of Fans		ea	1	1	1
	Airflow Rate		m³/min	167	196	210
	All tow rate		l/s	2,779	3,260	3,500
	External Static Pressure	Max.	mmAq	11	11	8
	External state (ressure	-iux.	Pa	110	110	80
an Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
an Motor	Output		Wxn	630 x 1	630 x 1	630 x 1
Piping Connections	Liquid Pipe		ø, mm	9.52	12.70	12.70
iping connections	Elquid i ipc		ø, inch	3/8	1/2	1/2
	Gas Pipe		ø, mm	22.22	28.58	28.58
	dasripe		ø, inch	7/8	11/8	11/8
	Piping length (ODU-IDU) ³	Max. (Equiv.)	m m	200 [220]	200 [220]	200 [220]
				90	90	90
	Piping length (1st Branch - IDU) ³ Total piping length (System)	Max.	m m		1,000	1,000
	Total piping length (System)			1,000		
	Level difference (ODU in highest position)	Max.	m	110	110	110
	Level Difference (IDU in highest position)	Max.	m			
liring Conservices	Level Difference (IDU-IDU)3	Max.	m mm²	50	50	50
iring Connections	Transmission Cable	Min.	mm²	0.75	0.75	0.75
	*	Remark	-	F1, F2	F1, F2	F1, F2
efrigerant	Type		-		A (Fluorinated greenhouse gas, GWP=2	
	Factory Charging		kg	5.5	7.0	7.0
			tCO₂e	11.48	14.62	14.62
ound	Sound Pressure ²	Cooling	dB(A)	56	61	63
		Heating	dB(A)	60	63	65
	Sound Power	Cooling	dB(A)	78	81	85
xternal 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	Heating		°C	-25~24	-25~24	-25~24





AM160AXVDGH/EU	AM180AXVDGH/EU		
3Ф, 4, 380-415 V, 50 Hz	3Ф, 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 x 1	Inverter Scroll x 1		
8.93 x 1	8.93 x 1		
PVE	PVE		
1,400 x 1	1,400 x 1		
Propeller	Propeller		
Vertical	Vertical		
2	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		
	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

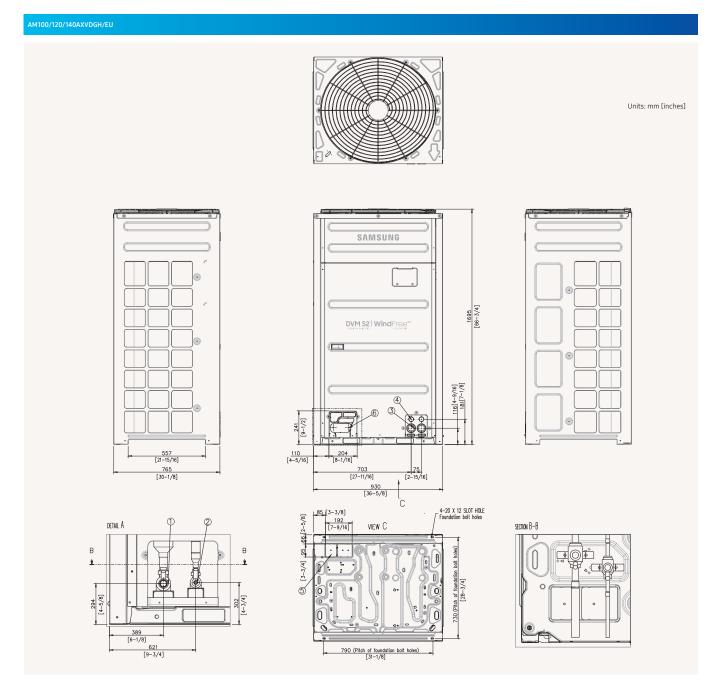
 Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

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)

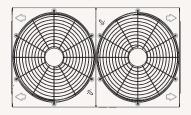


NO	Name	Description
1	Gas Ref.pipe	See NOTE 4.
2	Liquid Ref.pipe	See NOTE 4.
3	Power wiring conduit	Ø44
4	Communication wiring conduit	Ø34
5	Knock-out Hole for Ref.Piping (bottom)	
6	Knock-out Hole for Ref.Piping (front)	

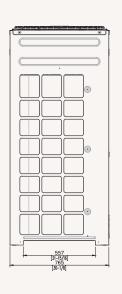
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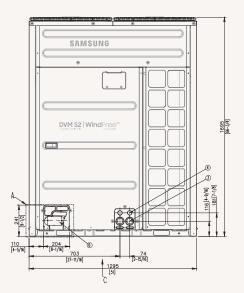
- Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
- 2. Item 3-6: Knock-out hole
 3. View C indicate the dimension of knock-out hole (bottom)
 4. Pipe [Ø, mm(inch)]: Brazing connection

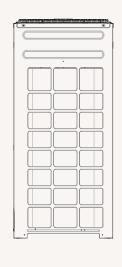
НР	Liquid pipe	Gas pipe
8	9.52(3/8)	19.05(3/4)
10	9.52(3/8)	22.22(7/8)
12	12.70(1/2)	28.58(1-1/8)
14	12.70(1/2)	28.58(1-1/8)
16	12.70(1/2)	28.58(1-1/8)
18	15.88(5/8)	28.58(1-1/8)
20	15.88(5/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)
26	19.05(3/4)	34.92(1-3/8)

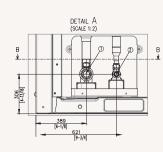


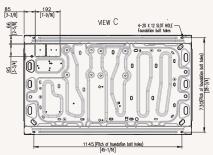
Units: mm [inches]

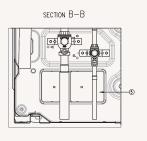












NO	Name	Description		
1	Gas Ref.pipe	See NOTE 4.		
2	Liquid Ref.pipe	See NOTE 4.		
3	Power wiring conduit	Ø44		
4	Communication wiring conduit Ø34			
5	Knock-out Hole for Ref.Piping (bottom)			
6	Knock-out Hole for Ref.Piping (front)			

- 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 AI Defrost.

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







				Bio., more, med.	Brita Common Const.	Bin
	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 H
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	A	12.60	18.41	19.83
	Carrentinpac	Heating	Α	9.50	12.90	14.82
	Current	MCA	Α	18.0	23.0	25.0
	Current	MFA	A	25	32	32
	SEER	MFA	W/W	6.5		
nergy Efficiency ¹					6.2	6.6
	SCOP		W/W	4.2	4.2	4.4
	ns.c		%	257	245	261
	ηs.h		%	165	165	173
ompressor	Output		kW x n	4.39 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
an	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Vertical	Vertical	Vertical
	Number of Fans		ea	1	1	1
	Airflow Rate		m³/min	151	167	196
			l/s	2,515.00	2,779.00	3,260.00
	External Static Pressure	Max.	mmAq	11	11	11
			Pa	110	110	110
an Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	630 x 1	630 x 1	630 x 1
iping 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.	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	50	50	50
/iring Connections	Transmission Cable	. Ius.	mm²	0.75	0.75	0.75
ming connections	Remark		- mm-	F1, F2	F1, F2	F1, F2
efrigerant			-	•	A (Fluorinated greenhouse gas, GWP=2	
en igerant	Type Factory Charging					
	Factory Charging		kg	5.5	5.5	7.0
			tCO₂e	11.48	11.48	14.62
ound	Sound Pressure ²	Cooling	dB(A)	53	56	61
		Heating	dB(A)	58	60	63
	Sound Power	Cooling	dB(A)	75	78	81
xternal Dimensions	Net Weight		kg	175	185	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
perating	Cooling		°C	-5~50	-5~50	-5~50
emperature Range	Heating		°C	-25~24	-25~24	-25~24

- 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 sound source generates.
- ³ ODU: Outdoor Unit, IDU: Indoor Unit











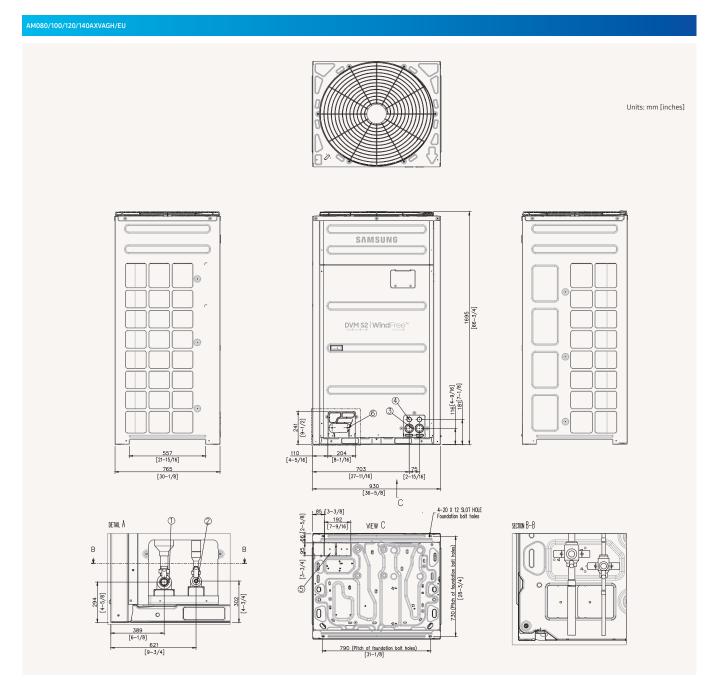






AM140AXVAGH/EU	AM160AXVAGH/EU	AM180AXVAGH/EU	AM200AXVAGH/EU	AM220AXVAGH/EU	AM240AXVAGH/EU	AM260AXVAGH/EU
3Ф, 4, 380–415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 H
14	16	18	20	22	24	26
40.0	45.0	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 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
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	110	1,000	1,000	1,000
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
FI, FZ	F 1, FZ				F I, FZ	F 1, FZ
70	0.0		Fluorinated greenhouse gas, GW		14.0	14.0
7.0	8.0	8.0	10.5	10.5	14.0	14.0
14.62	16.70	16.70		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

DVM S2 Standard Heat Pump (2-Pipe)

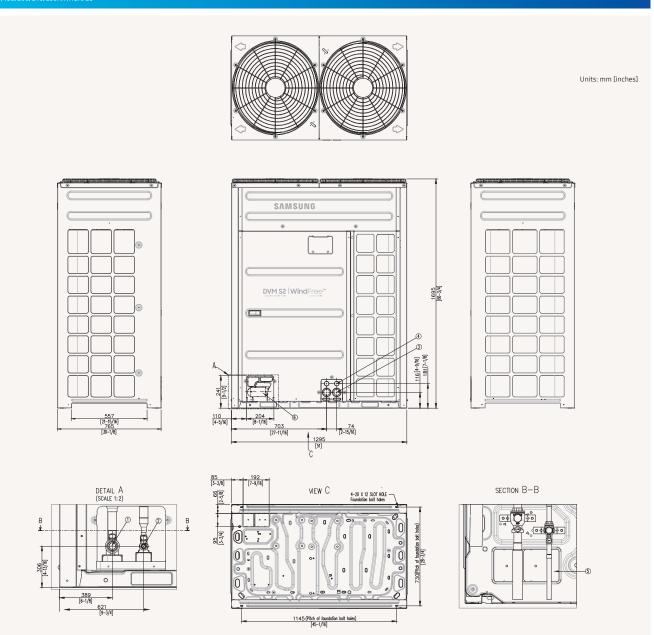


NO	Name	Description			
1	Gas Ref.pipe	See NOTE 4.			
2	Liquid Ref.pipe	See NOTE 4.			
3	Power wiring conduit	Ø44			
4	Communication wiring conduit	Ø34			
5	Knock-out Hole for Ref.Piping (bottom)				
6	Knock-out Hole for Ref.Piping (front)				

٨	ı	n	+	,

- 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 AI Defrost.

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







	Model			AM080AXVGGH/EU	AM100AXVGGH/EU	AM120AXVGGH/EU
Power Supply			Φ, #, V, Hz	3Φ, 4, 380–415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 I
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	A	11.44	15.97	19.25
		Heating	A	9.09	11.41	14.37
	Current	Minimum SSC value	MVA	3.0	3.4	4.0
		MCA	A	18.0	21.2	25.0
		MFA	A	25	32	32
Energy Efficiency ¹	SEER		W/W	7.2	6.9	6.9
inergy Efficiency	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	4.39 x 1	6.67 x 1	6.67 x 1
.ompressor	Oil	T	- KW X II	PVE	PVE	PVE
	Oil	Type				
	T	Initial Charge	cc x n	900 x 1	1,100 x 1	1,100 x 1
an	Type			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		-		A (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

- 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 sound source generates.
- ³ ODU: Outdoor Unit, IDU: Indoor Unit











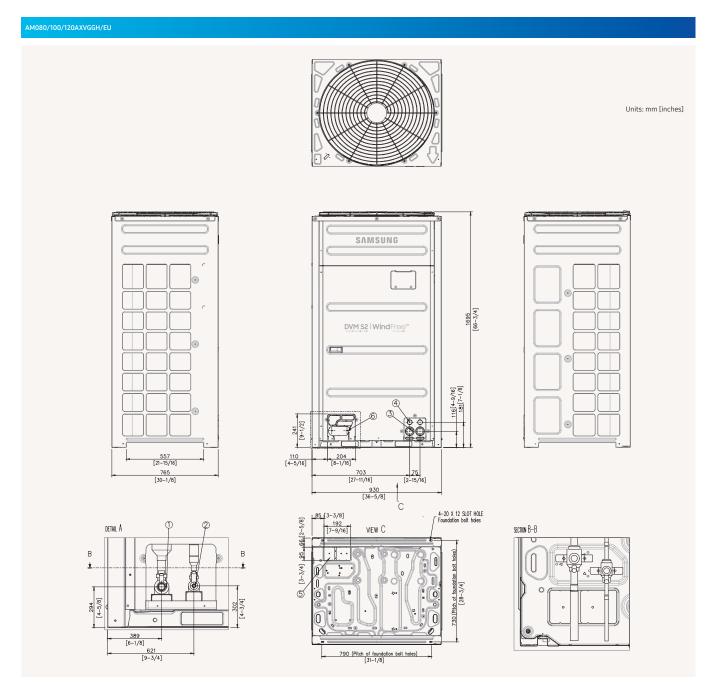






AM140AXVGGH/EU	AM160AXVGGH/EU	AM180AXVGGH/EU	AM200AXVGGH/EU	AM220AXVGGH/EU	AM240AXVGGH/EU	AM260AXVGGH/EU
3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 H			
14	16	18	20	22	24	26
40.0	45.0	50.4	56.0	61.6	67.2	72.8
40.0	45.0	50.4	56.0	61.6	67.2	68.0
26	29	32	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
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	4.30	4.80	4.50	4.30	3.90	3.90
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
4,852.00	4,866.00	5,209.00	5,209.00	5,698.00	6,089.00	6,089.00
11	11	11	11	11	8	8
110.00	110.00	110.00	110.00	110.00	80.00	80.00
BLDC Motor	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	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	1 3/8
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 (Fluorinated greenhouse gas, GW	P=2,088)		
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
233	262	268	268	301	325	325
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 High Efficiency Heat Pump (2-Pipe)

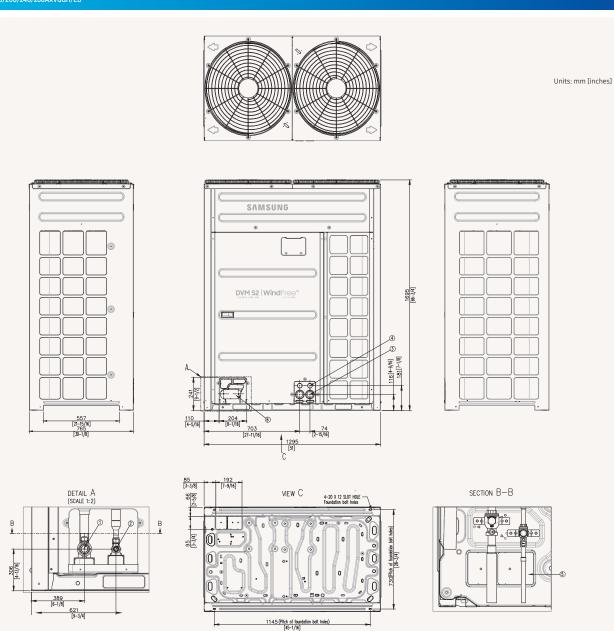


NO	Name	Description
1	Gas Ref.pipe	See NOTE 4.
2	Liquid Ref.pipe	See NOTE 4.
3	Power wiring conduit	Ø44
4	Communication wiring conduit	Ø34
5	Knock-out Hole for Ref.Piping (bottom)	
6	Knock-out Hole for Ref.Piping (front)	

8.1	- 4 -
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- 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)	

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- 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 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			AM040BXMDER/EU	AM050BXMDER/EU	AM060BXMDER/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	3.87	5	5.74
		Heating	kW	3.04	3.83	4.43
	Current Input (Nominal)	Cooling	Α	17.7	22.9	26.3
		Heating	Α	13.9	17.5	20.3
	Current	MCA	Α	22	24	30
		MFA	Α	25	32	40
Energy Efficiency ¹	EER (Nominal Cooling)		W/W	3.13	2.8	2.7
	COP (Nominal Heating)		W/W	3.98	3.66	3.5
	SEER (Cassette)		W/W	7.9	7.4	7.75
	SCOP (Cassette)		W/W	4.65	4.65	4.9
Compressor	Туре		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	Output		kW x n	4.04 x 1	4.04 x 1	4.04 x 1
	Oil	Туре	-	PVE	PVE	PVE
		Initial Charge	СС	1,700	1,700	1,700
	Type & Discharge direction	gc	-	Propeller	Propeller	Propeller
uii	Type a Discharge direction			Horizontal	Horizontal	Horizontal
	Number of Fans		EA	2	2	2
	Airflow Rate	(H/M/L)	m³/min	100	100	100
	All tow Rate	(H/M/L)	l/s			
	External Static Pressure	May		1,667	1,667	1,667
	External Static Pressure	Max.	Pa mmAq	3	3	3
	W. J. I		Pa -	29.4	29.4	29.4
an Motor	Model			BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		Wxn	125.0 x 2	125.0 x 2	125.0 x 2
Piping 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	15.88	15.88
			ø, inch	5/8	5/8	5/8
	Discharge Gas Pipe		ø, mm	15.88	15.88	15.88
			ø, inch	5/8	5/8	5/8
	Piping length (ODU-IDU)	Max. [Equiv.]	m	150 (75)	150 (75)	150 (75)
	Piping length (1st Branch-IDU)	Max	m	40	40	40
	Total Piping length (System)	Max	m	300	300	300
	Level difference (ODU in highest position)	Max	m	50	50	50
	Level difference (IDU in highest position)	Max	m	40	40	40
	Level difference (IDU-ODU)	Max	m	50	50	50
Viring Connections	Communication	Min.	m	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
tefrigerant	Туре		-	R410	A (Fluorinated greenhouse gas, GWP=2	2,088)
	Factory Charging		kg	3.2	3.2	3.3
			kg/tCO₂e	6.68	6.68	6.89
ound	Sound Pressure ² (Cooling)		dB(A)	51	52	53
	Sound Pressure ² (Heating)		dB(A)	55	55	55
	Sound Power		dB(A)	68	69	70
xternal Dimensions	Net Weight		kg	97	97	100
	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	Cooling		°C	-5.0~48.0	-5.0~48.0	-5.0~48.0
emperature Range						







AM050BXMDGR/EU	AM060BXMDGR/EU		
3Ф, 380~415 V, 50 Hz	3Ф, 380~415 V, 50 Hz		
5	6		
14.0	15.5		
14.0	15.5		
5	5.74		
3.83	4.43		
7.6	8.7		
5.8	6.7		
16.1	16.1		
20	20		
2.8	2.7		
	3.5		
	7.75		
	4.9		
	Twin BLDC Rotary		
	4.04 x 1		
	PVE		
	1,700		
	Propeller		
	Horizontal		
	2		
	100		
	1,667		
3	3		
29.4	29.4		
BLDC Motor	BLDC Motor		
125.0 x 2	125.0 x 2		
9.52	9.52		
3/8	3/8		
15.88	15.88		
5/8	5/8		
15.88	15.88		
5/8	5/8		
150 (75)	150 (75)		
40	40		
300	300		
50	50		
40	40		
50	50		
0.75	0.75		
	F1, F2		
	·		
	3.3		
	6.89		
	53		
	55		
	70		
	98		
940 x 1,210 x 330	940 x 1,210 x 330		
-5.0~48.0	-5.0~48.0		
	30,380-415 V,50 Hz 5 14.0 14.0 14.0 5 3.83 7.6 5.8 16.1 20 2.8 3.66 7.4 4.65 Twin BLDC Rotary 4.04 x1 PVE 1,700 Propeller Horizontal 2 100 1,667 3 29.4 BLDC Motor 125.0 x 2 9.52 3/8 15.88 5/8 15.88 5/8 15.88 5/8 15.88 5/8 15.88 5/8 15.0 (75) 40 300 50 40 50 0.75 F1,F2 10A (Fluorinated greenhouse gas, GWP=2) 3.2 6.68 52 55 69 95		

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

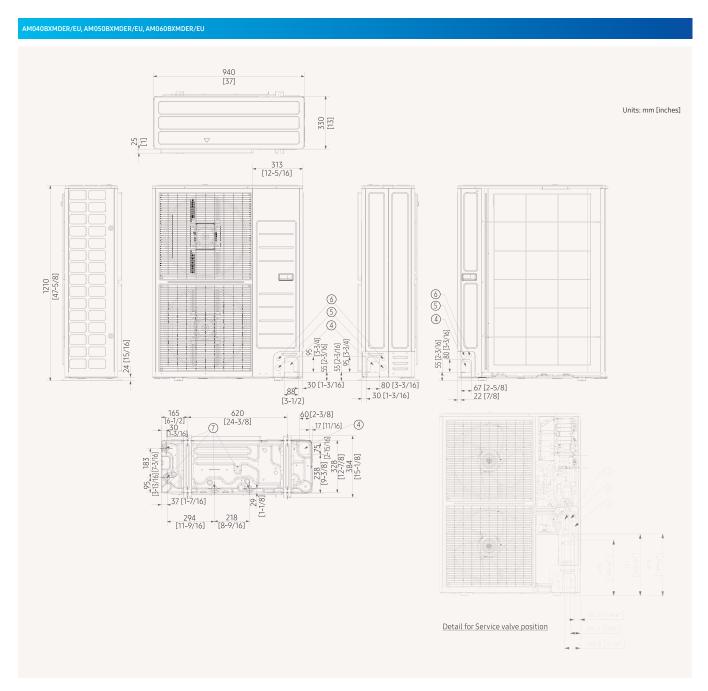
- Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB

- 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)	ø19.05 (ø3/4)			
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	rovided 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 AI Defrost.

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







				Fig. 10		
	Model			AM080AXVGGR/EU	AM100AXVGGR/EU	AM120AXVGGR/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
4ode			-	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
erformance	HP		HP	8	10	12
	Capacity	Cooling	kW	22.4	28.0	33.6
	cupacity	Heating	kW	22.4	28.0	33.6
	Maximum number of connectable indoor units	ricuting	ea	14	18	21
	Total capacity of the connected indoor units	Min.	kW	11.2	14.0	16.8
	local capacity of the connected moon units	Max.	kW	29.1	36.4	43.7
	Command In mod			11.44	15.97	19.25
ower	Current Input	Cooling	A			
	C	Heating	A	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
nergy 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
ompressor	Output		-	4.39 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
ın	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
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	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
	riigii i ressure dus i ipe (iii onty)		ø, inch	5/8	3/4	3/4
	Piping length (ODU-IDU) ³	Max. (Equiv.)	m m	200 [220]	200 [220]	200 [220]
	Piping length (1st Branch - IDU) ³	Max.	m	90	90	90
	Total piping length (System)	Max.		1,000	1,000	1,000
	Level Difference (ODU in highest position) ³		m	110	110	110
		Max.	m			
	Level Difference (IDU in highest position) ³	Max.	m	110	110	110
Patra Cara at	Level Difference (IDU-IDU) ³	Max.	m	50	50	50
iring Connections	Transmission Cable		mm²	0.75	0.75	0.75
	Remark		-	F1, F2	F1, F2	F1, F2
efrigerant	Type		-		A (Fluorinated greenhouse gas, GWP=2	
	Factory Charging		kg	7.0	7.0	7.0
			tCO₂e	14.62	14.62	14.62
ound	Sound Pressure ²	Cooling	dB(A)	53	56	61
		Heating	dB(A)	58	60	63
	Sound Power		dB(A)	75	78	81
xternal 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
	Cooling		°C	-5~50	-5~50	-5~50
perating emperature Range						

- 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 sound source generates.
- ³ ODU: Outdoor Unit, IDU: Indoor Unit











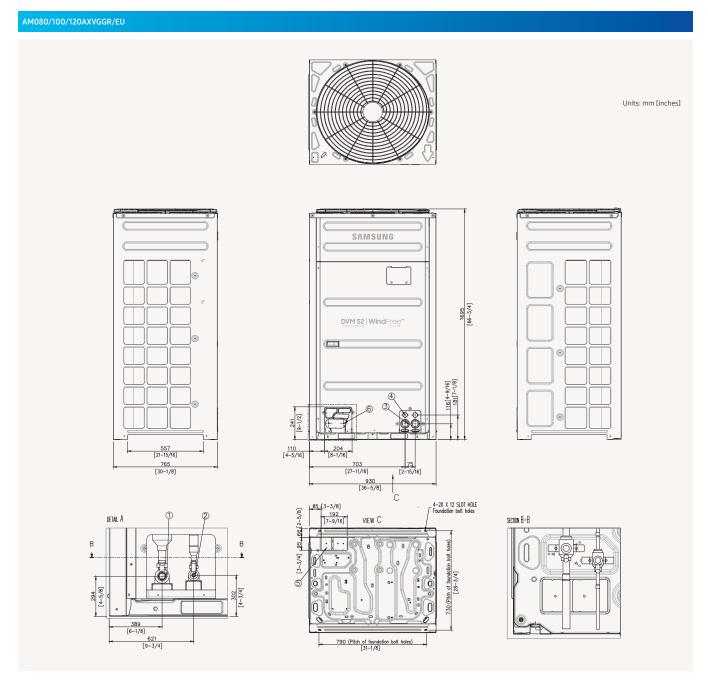






AM140AXVGGR/EU	AM160AXVGGR/EU	AM180AXVGGR/EU	AM200AXVGGR/EU	AM220AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU
3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50/60 Hz	3Ф, 4, 380-415 V, 50/60 Hz			
HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
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	1 3/8
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
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 (Fluorinated greenhouse gas, GW	P=2,088)		
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

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)	

N	d	_	+	^
н	ч	u	u	c

- Note:

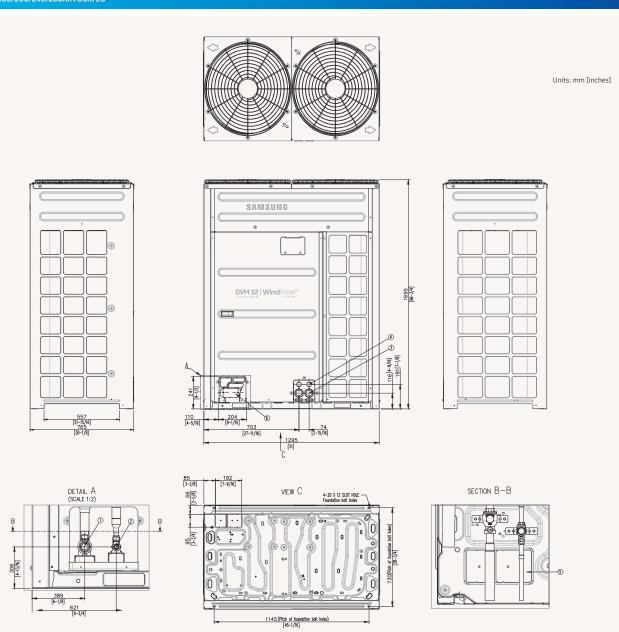
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.

 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

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)	

Name	Description
Low Pressure Gas Ref.pipe	See NOTE 4.
High Pressure Ref.pipe	See NOTE 4.
Liquid Ref.pipe	See NOTE 4.
Power wiring conduit	Ø44
Communication wiring conduit	
Knock-out Hole for Ref.Piping (bottom)	
Knock-out Hole for Ref.Piping (front)	
	Low Pressure Gas Ref.pipe High Pressure Ref.pipe Liquid Ref.pipe Power wiring conduit Communication wiring conduit Knock-out Hole for Ref.Piping (bottom)

- 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)

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 compressors with Flash Injection technology.







		MkW			AM080MXWANR/EU	AM100MXWANR/EU	AM120MXWANR/EU
Power Supply				Ф, #, 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 Н
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 of connectable indoor units		ea	14	18	22	
	Total capacity of	Min.		kW	11.2	14.0	16.8
	the connected indoor units	Max.		kW	29.1	36.4	43.7
ower	Power Input	Cooling		kW	3.67	4.87	6.00
	(Nominal)	Heating		kW	3.97	5.04	6.25
	Current Input	Cooling		A	5.9	8.1	9.6
	(Nominal)	Heating		A	6.4	8.4	10.0
	Current	Minimum SSC value		MVA	3.9	3.9	4.8
	Carrent	MCA		A	16.1	16.1	20.0
		MFA		Α	20	20	25
OP1	Nominal Cooling	MLW		W/W	6.10	5.75	5,60
.ор-							
	Nominal Heating			W/W	6.35	6.25	6.05
ompressor	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
Condenser	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
Piping 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	System	Actual	m	500	500	500
	length				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
Viring Connections	Communication	Minimum		mm²	0.75	0.75	0.75
		Remark		-	F1, F2	F1, F2	F1, F2
tefrigerant	Туре			-	R410	A (Fluorinated greenhouse gas, GWP=2	2,088)
	Factory Charging			kg	5.5	5.8	6.0
				tCO₂e	11.48	12.11	12.53
ound	Sound Pressure ²		Cooling	dB(A)	48	48	50
			Heating	dB(A)	51	51	52
	Sound Power			dB(A)	70	70	70
xternal Dimensions	Net Weight			kg	160.0	160.0	160.0
	Net Dimensions (\	W x H x D)		mm	770 x 1,000 x 545	770 x 1,000 x 545	770 x 1,000 x 545
Operating	Cooling			°C	10.0~45.0	10.0~45.0	10.0~45.0
Temperature Range	cooming			-	10.0 45.0	10.0 45.0	10.0 -43.0





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
10.86	16.88
17.3	26.4
17.4	26.5
7.7	
32.2	48.0
40	63
5.20	5.00
5.80	5.60
Inverter Scroll	SSC Scroll x 2
4.96 x 2	6.75 x 2
PVE	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 green	house gas, GWP=2,088)
9.8	11.0
20.46	22.96
51	55
52	58
73	75
73 240.0	75 280.0
240.0	280.0

¹Performances are based on the following test conditions:

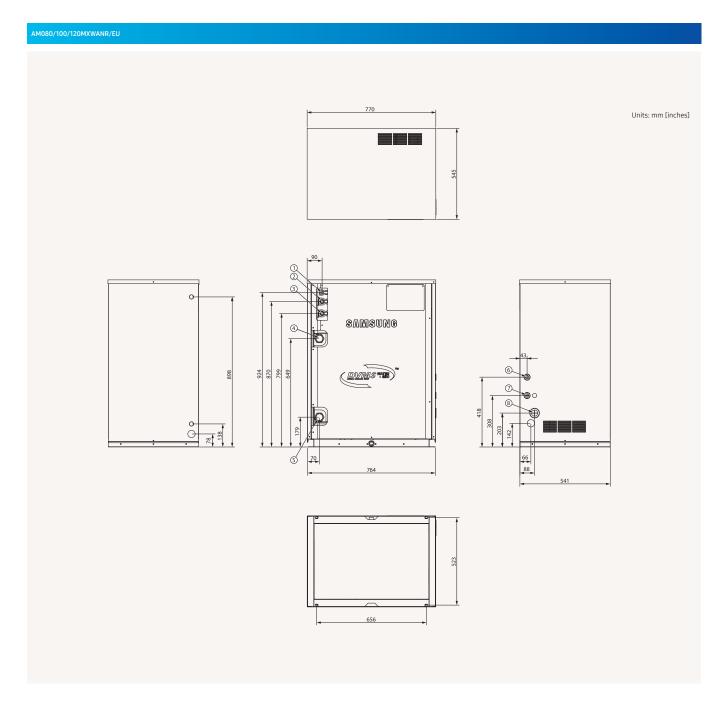
- Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Inlet water temperature: 30 °C

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

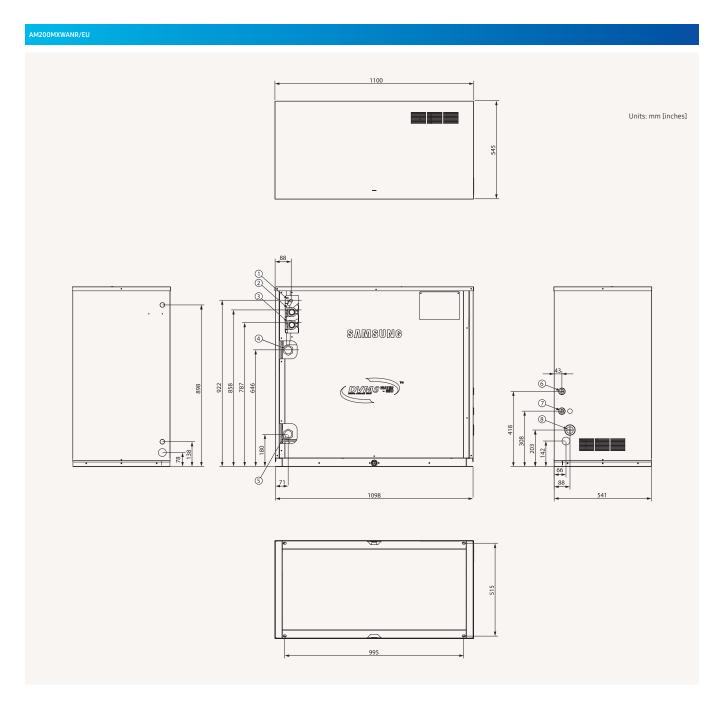
- Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

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

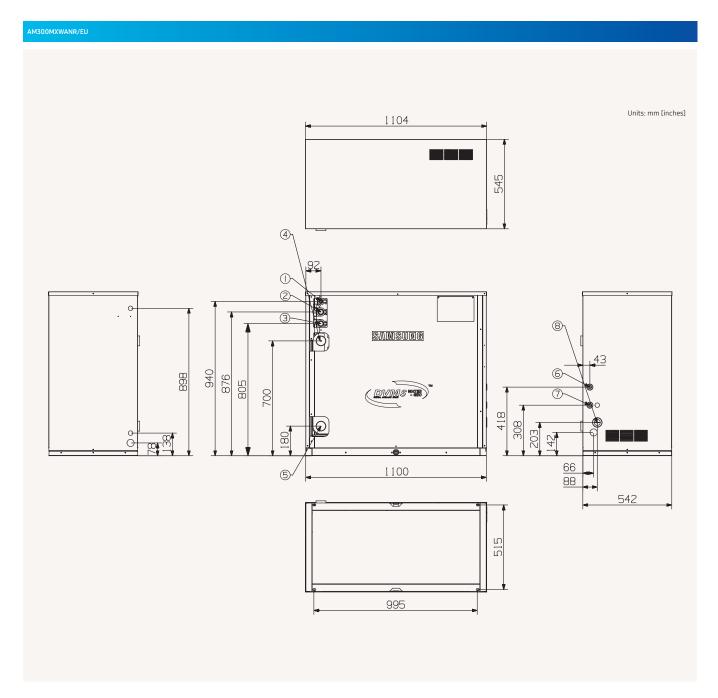


NO	Name	Description		
1	Liquid Ref. pipe	ø19.05 (3/4)		
2	High Pressure Gas Ref. pipe	ø28.58 (11/8)		
3	Low Pressure Gas Ref. pipe	ø 34.92 (1 3/8)		
4	Water outlet pipe	PT2		
5	Water inlet pipe	PT2		
6	Communication wiring conduits			
7	External contact wiring			
8	Power wiring conduits			

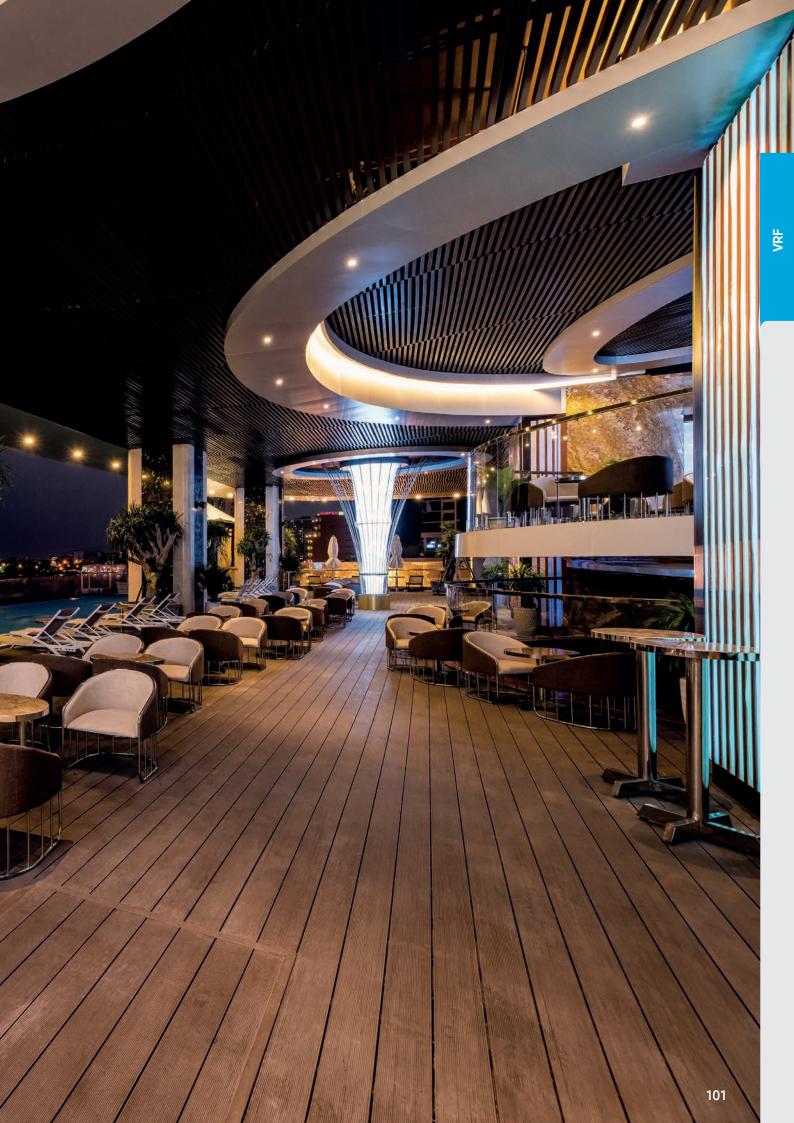


NO	Name	Description		
1	Liquid Ref. pipe	15.88 (5/8)		
2	High Pressure Gas Ref. pipe	ø28.58 (11/8)		
3	Low Pressure Gas Ref. pipe	ø28.58 (11/8)		
4	Water outlet pipe	PT11/4		
5	Water inlet pipe	PT11/4		
6	Communication wiring conduits			
7	External contact wiring			
8	Power wiring conduits			

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	PT2
5	Water inlet pipe	PT2
6	Communication wiring conduits	
7	External contact wiring	
8	Power wiring conduits	



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.

- Can be controlled by Smartphone via Wi-Fi Kit.
 Motion Detect Sensor (Optional).







Model			AM015NNNDEH/EU	AM022NNNDEH/EU	AM028NNNDEH/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	Cooling	kW	1.5	2.2	2.8
		Heating	kW	1.7	2.5	3.2
Power	Power Input	Cooling	W	18	18	18
		Heating	W	18	18	18
	Current Input	Cooling	A	0.17	0.17	0.17
	· ·	Heating	A	0.17	0.17	0.17
	Current	MCA	A	0.2	0.2	0.2
		MFA	Α	15	15	15
an	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
Orain Pump	Drain Pump		-	INCLUDED	INCLUDED	INCLUDED
	Max. Lifting Height/Displacement		mm / litres/h	750/24	750/24	750/24

		Acce	sories		
5 10 to 10 t	(A.1.2) (C.1.2) (C.1.2) (G.2.2)	日日 (本年) 日日 (本年) 日本 (本年) 日本 (本年)	* (\$) \$	-	money .
/ireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Senso
AR-EH03E	MWR-SH00N	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA

MCR-SMD

Panel (Mandatory) PC4SUFMAN

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.





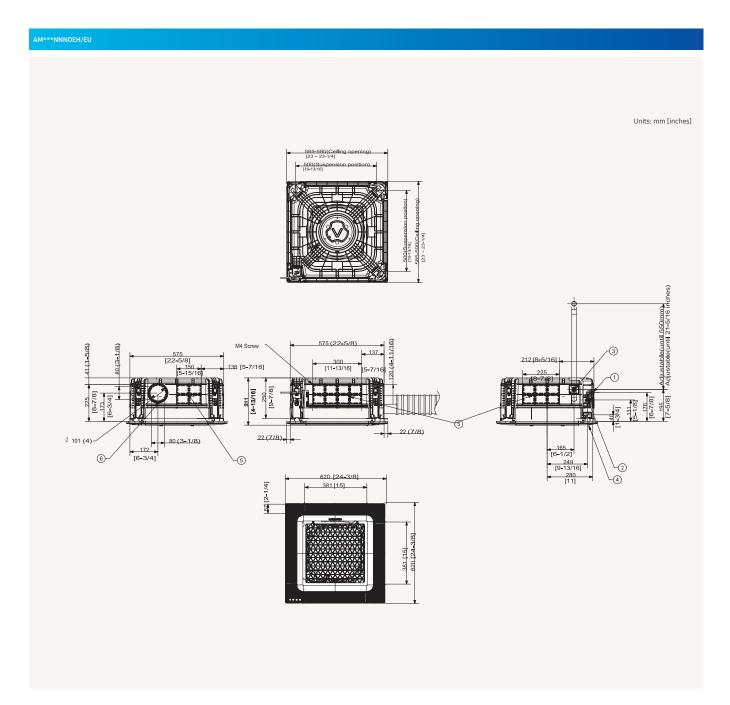




3.6 4.5 5.6 6.0 4.0 5.0 6.3 6.8 20 23 28 31 20 23 28 31 0.19 0.22 0.27 0.30 0.19 0.22 0.27 0.30 0.2 0.3 0.4 0.4 15 15 15 15 Turbo Fan Turbo Fan Turbo Fan Turbo Fan 1 1 1 1 10.5/9.5/8.0 11.5/10.2/9.0 13.0/11.0/9.5 13.5/12.0/10.2 175/158/133 192/170/150 217/183/158 225/200/170 BLDC Motor BLDC Motor BLDC Motor BLDC Motor 65 x1 65 x1 65 x1 65 x1 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	AM036NNNDEH/EU	AM045NNNDEH/EU	AM056NNNDEH/EU	AM060NNNDEH/EU
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 x1 65 x1 65 x1 65 x1 65 x1 6.35 6.35 6.35 6.35 4.35 1/4 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	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
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 13.5/12.0/10.2 175/188/133 192/170/150 217/183/158 225/200/170 BLDC Motor BLDC Motor BLDC Motor BLDC Motor 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 1/4 1/2 1/2 1/2 1/2 VP25 (DD 32, ID 25) VP25 (DD 32, ID 25)	3.6	4.5	5.6	6.0
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 BLDC Motor BLDC Motor BLDC Motor BLDC Motor 65 x1 65 x1 65 x1 65 x1 6.35 6.35 6.35 6.35 1/4 1/4 1/4 1/4 1/4 12.7 12.7 12.7 12.7 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)	4.0	5.0	6.3	6.8
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 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	20	23	28	31
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 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 x1 65 x1 65 x1 65 x1 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) 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) P1, F2 F1, F2<	20	23	28	31
0.2 0.3 0.4 0.4 15 15 15 15 Turbo Fan Turbo Fan Turbo Fan Turbo Fan 1 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 x1 65 x1 65 x1 65 x1 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) 0.75 0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 F2 VINCLUDED EEV INCLUDED EEV INCLUDED EEV INCLUDED 34.0/30.0/26.0 36.0/34.0/32.0 39.0/36.0/33.0	0.19	0.22	0.27	0.30
15 15 15 15 Turbo Fan Turbo Fan Turbo Fan Turbo Fan 1 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 x1 65 x1 65 x1 65 x1 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 (DD 32, ID 25) 0.75 0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 F2 VINCLUDED 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 <td>0.19</td> <td>0.22</td> <td>0.27</td> <td>0.30</td>	0.19	0.22	0.27	0.30
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 x1 65 x1 65 x1 65 x1 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) 0.75 0.75 0.75 0.75 0.75 FI, F2 F1, F2 F1, F2 F1, F2 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 <td< td=""><td>0.2</td><td>0.3</td><td>0.4</td><td>0.4</td></td<>	0.2	0.3	0.4	0.4
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 x1 65 x1 65 x1 65 x1 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) 0.75 0.75 0.75 0.75 0.75 FI, F2 F1, F2 F1, F2 F1, F2 R410A (Fluorinated greenhouse gas, GWP=2,088) 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 <td>15</td> <td>15</td> <td>15</td> <td>15</td>	15	15	15	15
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) 0.75 0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 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 PC4SUFMAN <t< td=""><td>Turbo Fan</td><td>Turbo Fan</td><td>Turbo Fan</td><td>Turbo Fan</td></t<>	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
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) 0.75 0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN	1	1	1	1
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) 0.75 0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN	10.5/9.5/8.0	11.5/10.2/9.0	13.0/11.0/9.5	13.5/12.0/10.2
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) 0.75 0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 R410A (Fluorinated greenhouse gas, GWP=2,088) 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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	175/158/133	192/170/150	217/183/158	225/200/170
6.35 6.35 6.35 6.35 1/4 1/4 1/4 1/4 1/4 12.7 12.7 12.7 12.7 12.7 1/2 1/2 1/2 1/2 1/2 VP25 (OD 32, ID 25) PP25 (OD 32, ID 25) VP25 (OD 32, ID 25) PP25 (OD 32, ID 25) SP2 (OD 32, ID 25) PP2 (OD 32, ID 25)	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
1/4 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) 0.75 0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 R410A (Fluorinated greenhouse gas, GWP=2,088) 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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED	65 x 1	65 x 1	65 x 1	65 x 1
12.7 12.7 12.7 12.7 1/2 1/2 1/2 1/2 VP25 (OD 32, ID 25) 0.75 0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 R410A (Fluorinated greenhouse gas, GWP=2,088) 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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	6.35	6.35	6.35	6.35
1/2 1/2 1/2 1/2 VP25 (OD 32, ID 25) 0.75 0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 R410A (Fluorinated greenhouse gas, GWP=2,088) 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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	1/4	1/4	1/4	1/4
VP25 (OD 32, ID 25) 0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 R410A (Fluorinated greenhouse gas, GWP=2,088) 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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	12.7	12.7	12.7	12.7
0.75 0.75 0.75 0.75 F1, F2 F1, F2 F1, F2 F1, F2 R410A (Fluorinated greenhouse gas, GWP=2,088) 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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	1/2	1/2	1/2	1/2
F1, F2 F1, F2 F1, F2 F1, F2 R410A (Fluorinated greenhouse gas, GWP=2,088) 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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
R410A (Fluorinated greenhouse gas, GWP-2,088) 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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	0.75	0.75	0.75	0.75
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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	F1, F2	F1, F2	F1, F2	F1, F2
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 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED		R410A (Fluorinated green	nhouse gas, GWP=2,088)	
51 53 56 57 12.0 12.0 12.0 12.0 575 x 250 x 575 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
12.0 12.0 12.0 12.0 575 x 250 x 575 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED 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
575 x 250 x 575 PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	51	53	56	57
PC4SUFMAN PC4SUFMAN PC4SUFMAN PC4SUFMAN INCLUDED INCLUDED INCLUDED INCLUDED	12.0	12.0	12.0	12.0
INCLUDED INCLUDED INCLUDED INCLUDED	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN
750/24 750/24 750/24 750/24 750/24	INCLUDED	INCLUDED	INCLUDED	INCLUDED
	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



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.

- Can be controlled by Smartphone via Wi-Fi Kit (Optional).
- Motion Detect Sensor (Optional).
 Air Purification Panel, Auto Elevation Panel (Optional).







	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 H:
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	Α	0.25	0.27	0.30
	Current	MCA	Α	0.3	0.4	0.4
		MFA	Α	15	15	15
an	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
Orain Pump	Drain Pump		-	INCLUDED	INCLUDED	INCLUDED
	Max. Lifting Height/Displacement		mm / litres/h	750 / 24	750 / 24	750/24

		Acces	ssories		
898 327	(A.A.) (B.A.) (B.A.)	880 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	n (4 × 4)	inness of the same	
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
Air Purification Panel (Optional)	Auto Elevation Panel (Optional)	Motion Detect Sensor			
PC4NUCEAN	PC4NUXMAN	MCR-SMC			

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.









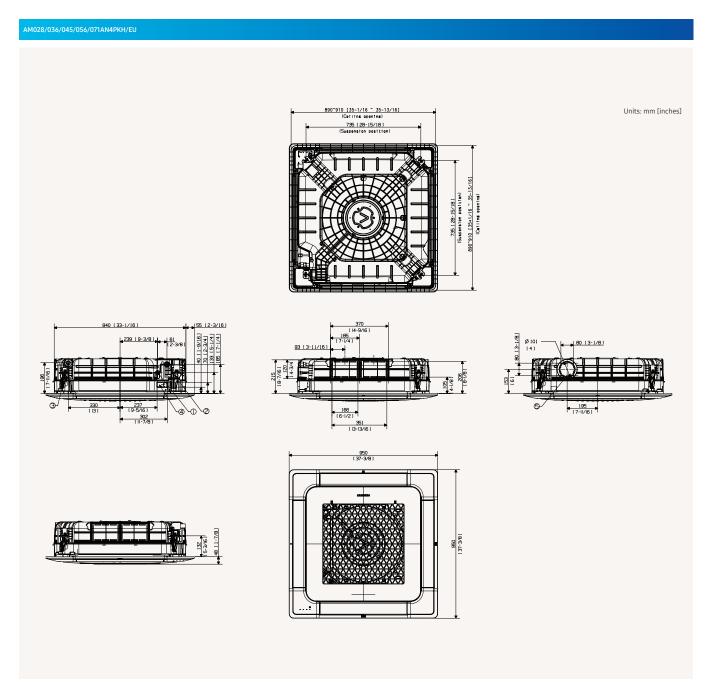




AM056AN4PKH/EU	AM071AN4PKH/EU	AM090AN4PKH/EU	AM112AN4PKH/EU	AM128AN4PKH/EU	AM140AN4PKH/EU
IФ, 2, 220–240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220–240 V, 50/60 H			
5.6	7.1	9.0	11.2	12.8	14.0
6.3	8.0	10.0	12.5	13.8	16.0
32	34	55	78	95	115
32	34	55	78	95	115
0.32	0.35	0.45	0.60	0.75	0.85
0.32	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	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	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)	VP25 (OD 32, ID 25)				
0.75	0.75	0.75	0.75	0.75	0.75
F1, F2	F1, F2				
		R410A (Fluorinated gree	nhouse gas, GWP=2,088)		
EEV INCLUDED	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

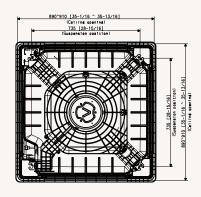
WindFree™ 4-Way Cassette

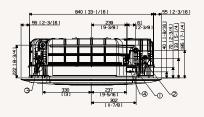


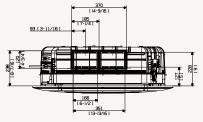
NO	Name	Description				
		AM028/036/045/056AN4PKH/EU	AM071AN4PKH/EU			
1	Liquid pipe connection	ø6.35 (1/4)	ø9.52 (3/8)			
2	Gas pipe connection	ø12.7 (1/2)	ø15.88 (5/8)			
3	Drain pipe connection	VP25 (OD 32, ID 25)				
4	Power supply/communication wiring conduits					
5	Fresh air intake knock-out hole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

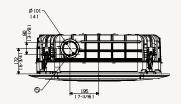
AA4000 (440 AA44 D)(11 (F)

Units: mm [inches]

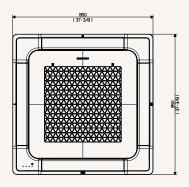








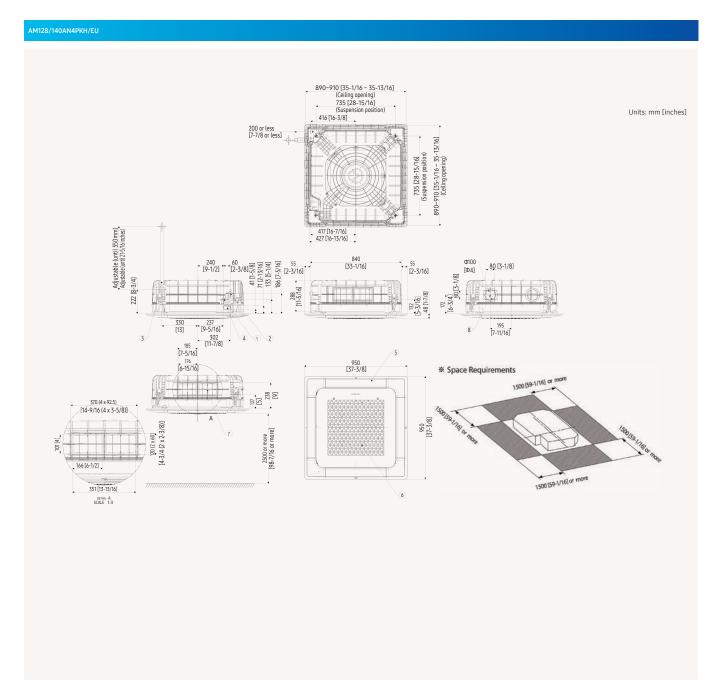




NO	Name	Description
1	Liquid pipe connection	ø9.52 (3/8)
2	Gas pipe connection	ø15.88 (5/8)
3	Drain pipe connection	VP25 (OD 32, ID 25)
4	Power supply/communication wiring conduits	
5	Fresh air intake knock-out hole	ø10 [4], use M4 Screw

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



WindFree™ 1-Way Cassette :: ≏

- 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.
- Fast Cooling mode and WindFree™ Cooling mode.
 One-way air supply by means of a 100 mm wide bla
 Built-in condensation drain numbered by self-if.

- Can be controlled by Smartphone via Wi-Fi Kit (Optional).Optional Air Purification Panel.







Model				AM017NN1PEH/EU	AM022NN1PEH/EU	AM022NN1DKH/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	Cooling	kW	1.7	2.2	2.2
		Heating	kW	1.9	2.5	2.5
Power	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
an	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
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	27 x 1	27 x 1	27 x 1
Piping	Liquid Pipe		ø, mm	6.35	6.35	6.35
Connections			ø, inch	1/4	1/4	1/4
	Gas Pipe		ø, mm	12.7	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)
Viring	Connection with Indoor	Minimum	mm²	0.75	0.75	0.75
Connections		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Туре		-	R410	A (Fluorinated greenhouse gas, GWP=2	(880,
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	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
Dimension	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
Panel	Model Name		-	PC1MWFMAN	PC1MWFMAN	PC1NWFMAN
Orain pump			-	INCLUDED	INCLUDED	INCLUDED
	Max. Lifting Height/Displacement		mm / litres/h	750/24	750/24	750/24

		Acces	sories		
593 020	(41.5) (51.5) (61.5)	日本 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本 日	e (4) \$;	-	and the same of
Vireless 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



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.



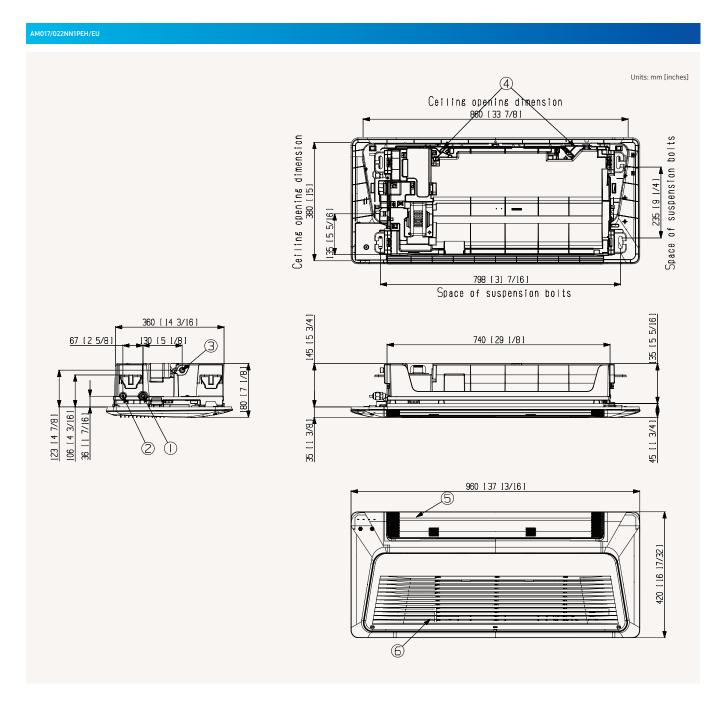




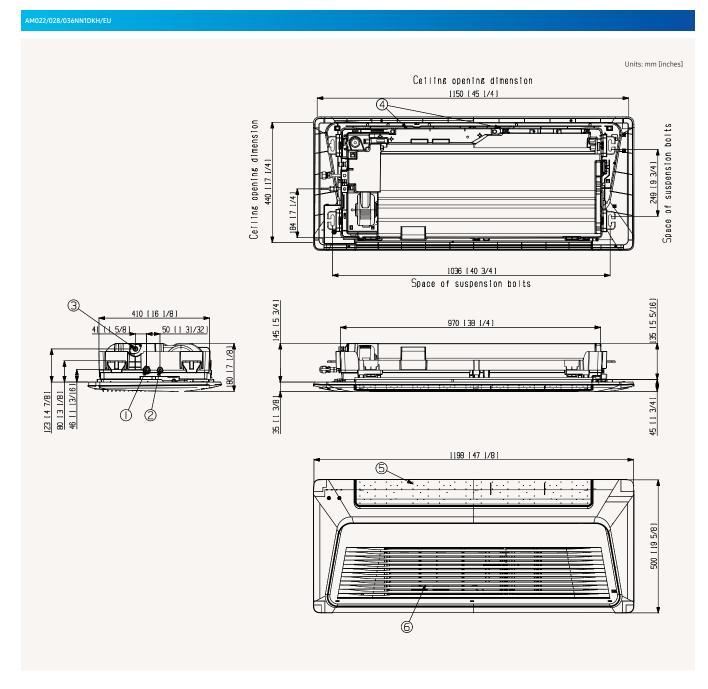


AM028NN1DKH/EU	AM036NN1DKH/EU	AM056NN1DEH/EU	AM071NN1DEH/EU
1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz
2.8	3.6	5.6	7.1
3.2	4.0	6.3	8.0
32	40	55	80
32	40	55	80
0.17	0.20	0.28	0.40
0.17	0.20	0.28	0.40
0.21	0.25	0.35	0.50
15	15	15	15
Crossflow Fan	Crossflow 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)	VP20 (OD 25, ID 20)	VP20 (OD 25, ID 20)	VP20 (OD 25, ID 20)
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
	R410A (Fluorinated greer	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

WindFree™ 1-Way Cassette

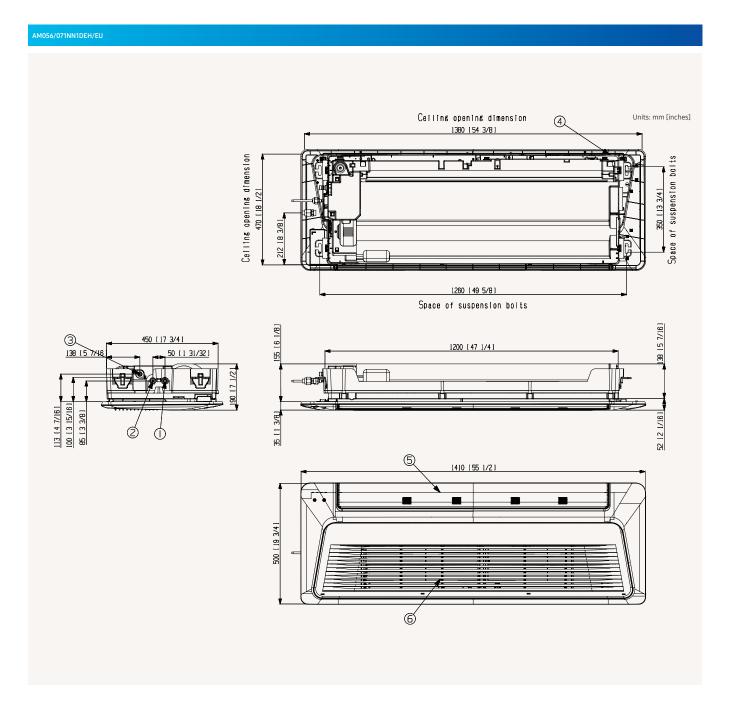


NO	Name	Description
1	Gas pipe connection	Ø12.7 (1/2")
2	Liquid pipe connection	Ø6.35 (1/4")
3	Drain hose connection	VP20 (OD26, ID20)
4	Power supply/Communication wiring conduit	-
5	Air outlet louver	-
6	Air inlet grille	-



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	Description		
		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 (OD	32, 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. Coanda effect is created even
- The PM 1.0 panel is an optional accessory for square and circle panel. Auto elevation panel is an optional accessory available in both the circle
- and square panel.
- Built-in condensation drain pump.

- Predisposition of the air inlet to let fresh air in.
 Can be controlled by Smartphone via Wi-Fi Kit (Optional).
 Circular or square cassette panel. Available in white and black.
- Motion Detector Sensor is optional for square cassette panel.







	Model			AM045KN4DEH/EU	AM056KN4DEH/EU	AM071KN4DEH/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	4.5	5.6	7.1
		Heating	kW	5.0	6.3	8.0
Power	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
Fan	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
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	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
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		-	R410A (Fluorinated greenhouse gas, GWP=2,088)		
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	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
Dimension	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		
9	(A.1.) (A.1.) (A.1.)	88h min		-	10000
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



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.



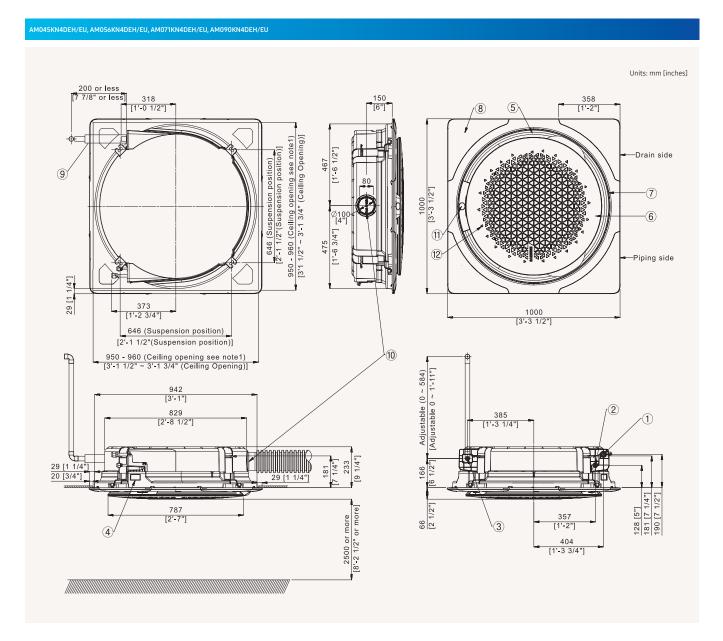






AM090KN4DEH/EU	AM112KN4DEH/EU	AM128KN4DEH/EU	AM140KN4DEH/EU
1Ф, 2, 220–240 V, 50 Hz			
9.0	11.2	12.8	14.0
10.0	12.5	13.8	16.0
55	53	77	91
55	53	77	91
0.42	0.41	0.62	0.75
0.42	0.41	0.62	0.75
Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
65 x 1	97 x 1	97 x 1	97 x 1
22.00/18.50/16.00	25.50/21.00/17.50	29.50/24.00/19.00	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 [3'13/4"]
- 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

Units: mm [inches] 200 or less [7 7/8" or less] 318 [1'-0 1/2"] 358 [1'-2"] (8) 950 - 960 (Ceiling opening see note1) [311 1/2" ~ 3'-1 3/4" (Ceiling Opening)] 467 646 (Suspension position) Drain side 9 80 [3"] 1000 (7) 6 475 [1'-6 3/4"] (11) 12 -Piping side 29 [1 1/4"] 373 [1'-2 3/4"] 1000 [3'-3 1/2"] 10 646 (Suspension position) [2'-1 1/2"(Suspension position)] 950 - 960 (Ceiling opening see note1) [3'-1 1/2" ~ 3'-1 3/4" (Ceiling Opening)] 9 Adjustable (0 ~ 584) [Adjustable 0 ~ 1'-11"] 942 [3'-1"] 823 [2'-8 1/2"] 385 [1'-3 1/4"]

[1'-0 1/2"]

2500 or more [8'-2 1/2" or more]

1/4"]

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			

787 [2'**-**7"]

29 [1 1/4"]

20 [3/4"]

1. Make sure the spacing between the ceiling and the cassette is no more than 29 mm [1 1/4"]. Max ceiling opening: 960 mm [3'1 3/4"]

1/2

1/2"]

66

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)

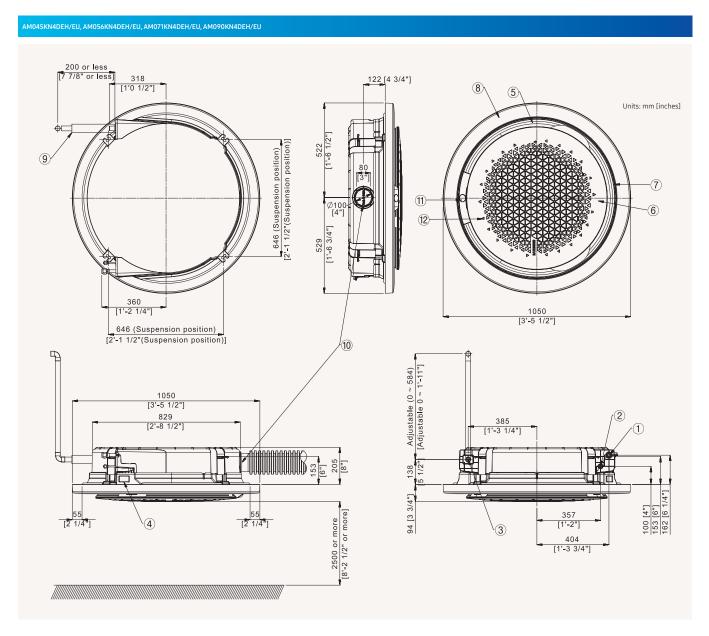
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404 [1'-3 3/4"]

3. Open type panel model code: PC4NUDMAN

128 [5"] 181 [7 1/4"] 190 [7 1/2"]

360 Cassette (circular)

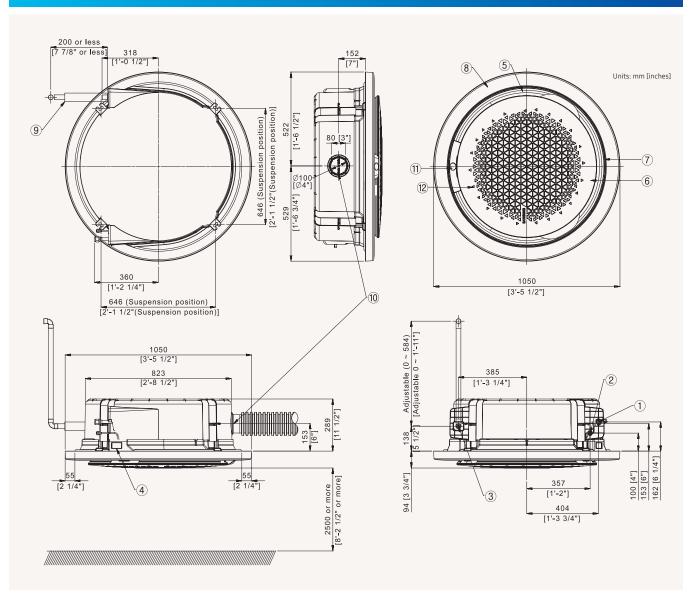


NO	Name
1	Refrigerant liquid pipe
2	Refrigerant gas pipe
3	Condensate drain
4	Power supply/communication wiring conduits
5	Air discharge opening
6	Air suction grille
7	Suction rim for booster fan
8	Corner decoration cover
9	Drain hose
10	Fresh air intake knock-out hole
11	Display window
12	Infrared receiver

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.
- 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.

AM112KN4DEH/EU, AM128KN4DEH/EU, AM140KN4DEH/EU



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.





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.
- Can be controlled by Smartphone via Wi-Fi Kit (Optional).



	Model			AM017ANLDKH/EU	AM022ANLDKH/EU	AM028ANLDKH/EU	AM036ANLDKH/EU
Power Supply			Ф, #, 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

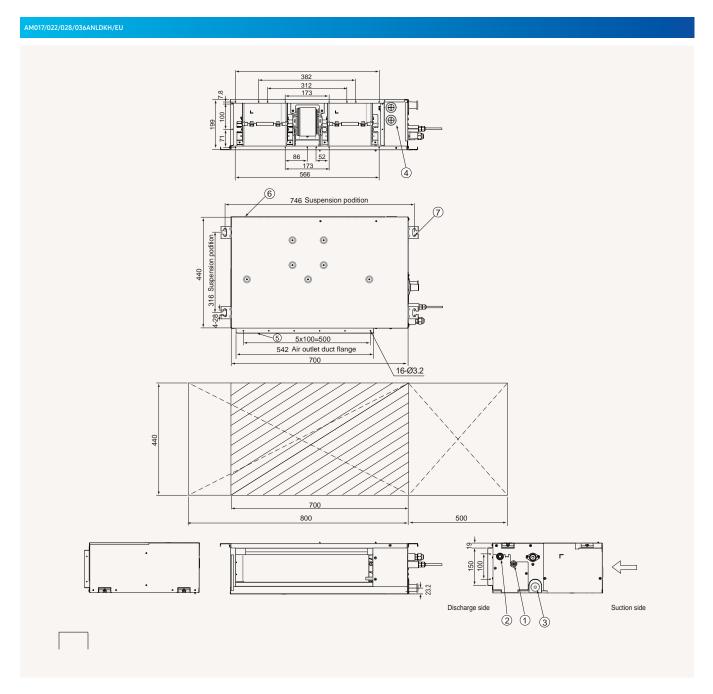
	Accessories					
2	880	s (\$1.5)	-		Seeman .	
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor	
AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA	

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.



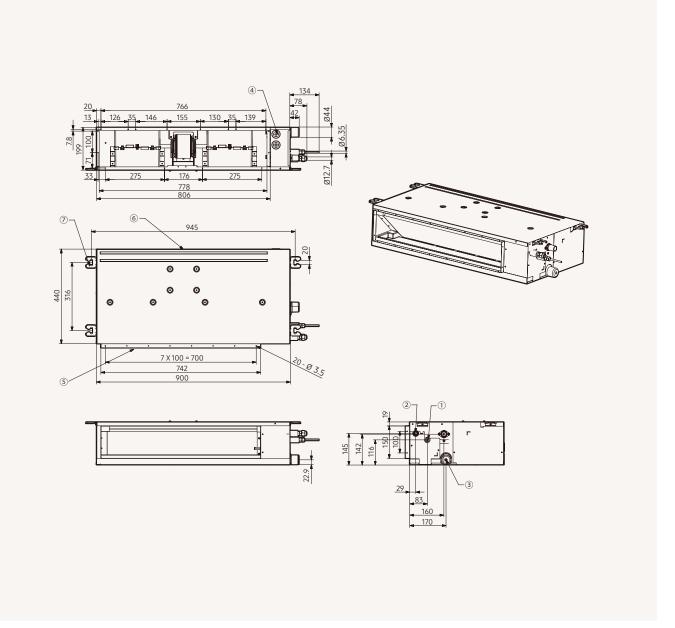
AM045ANLDKH/EU	AM056ANLDKH/EU	AM071ANLDKH/EU	AM090ANLDKH/EU	AM112ANLDKH/EU	AM128ANLDKH/EU	AM140ANLDKH/EU
1Ф, 2, 220–240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz
4.5	5.6	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 (Fluorinated greenhouse gas, GWI	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

LSP Duct (drain pump excluded)



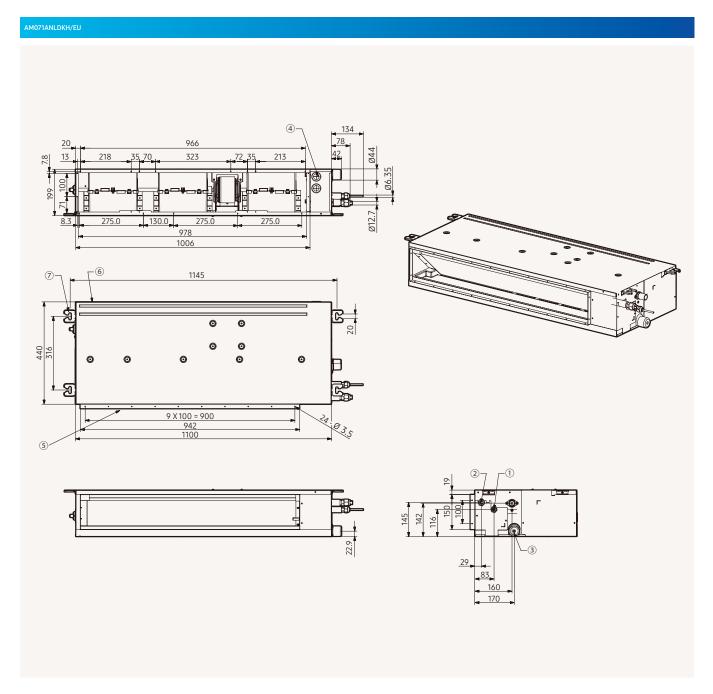
NO	Name	Description
1	Refrigerant Liquid Pipe	Ø6.35 [1/4"]
2	Refrigerant Gas Pipe	Ф12.70 [1/2"]
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Power supply / Communication connection	-
5	Air discharge grille flange	-
6	Return air side	-
7	Hook	ø9.52 or M10

AM045/056ANLDKH/EU



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 (Option)	VP25 (OD 32, ID 25)
4	Power & Comm. Wiring Conduits	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	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 (Option)	VP25 (OD 32, ID 25)
4	Power & Comm. Wiring Conduits	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-

AM090/112/128/140*NLDKH/EU 4×290=1160 16 Suction (5) 600 6 \(\text{\tin\text{\tin\tin}\tint{\text{\text{\text{\text{\text{\text{\text{\texi}\tinz{\ti}\text{\text{\texi}\tinz{\text{\texi}\tinz}{\text{\text{\texit{\texitt{\texit{\text{\texi{\texi\tint{\tiin}\tint{\tiin}\tint{\tin}\tint{\tintht{\texi{\texi{\texi{\tin}\tint{\tiin}\tint{\tiin}\ ⊃ ⊚ ⊕ 477 Suspension bolts(M8~M10) X 4EA 7 -Duct flange connection bolts(M4) X 32EA 1260 Discharge 12 2*100=200 295 186 250 3 337

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	Control unit	-
5	Conduit for power supply & communication wiring	-
6	Return air side	-
7	Air outlet duct flange	-

LSP Duct (drain pump included)

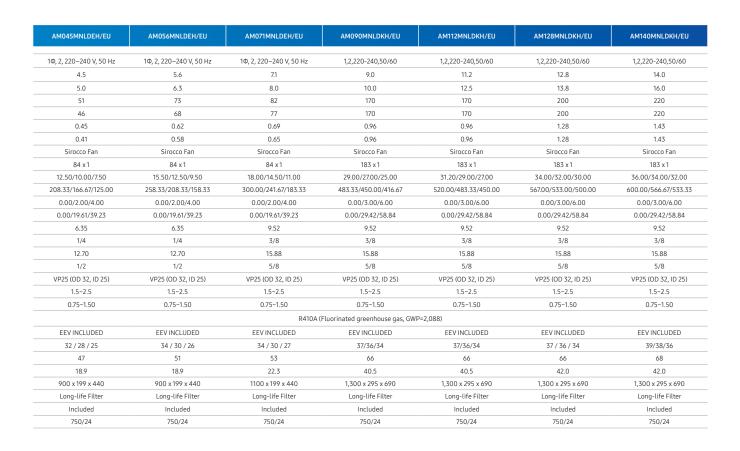
- Two-position field adjustable air return, on the bottom or
- at the rear of the unit.
 Equipped with one Sirocco fan direct driven by a single motor.
 Long-life washable HD 40 permanent filter is included.
- Auto Restart function.
- Built-in condensation drain pump (included).
 Can be controlled by Smartphone via Wi-Fi Kit (Optional).



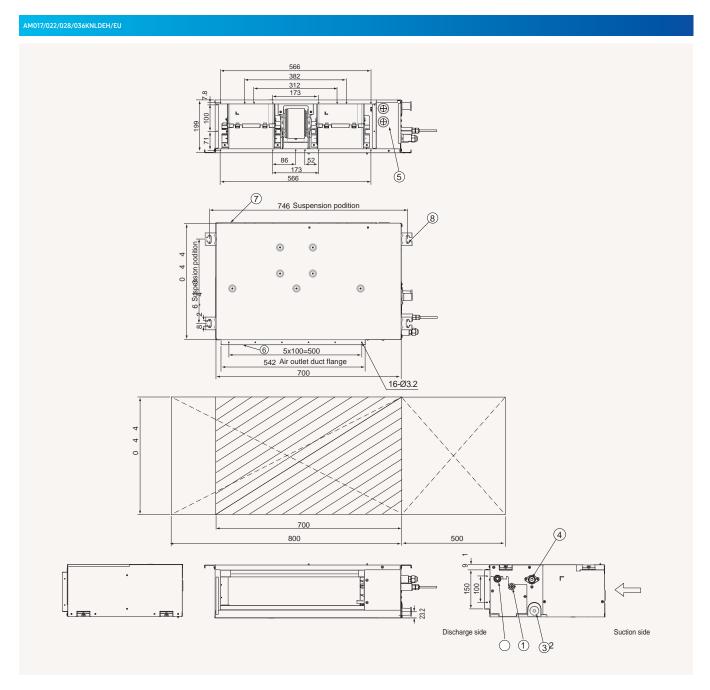
	Model			AM017KNLDEH/EU	AM022KNLDEH/EU	AM028KNLDEH/EU	AM036KNLDEH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	1.7	2.2	2.8	3.6
		Heating	kW	1.9	2.5	3.2	4.0
Power	Power Input (Nominal)	Cooling	W	28	30	34	40
		Heating	w	28	30	36	42
	Current Input (Nominal)	Cooling	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	5.45/4.45/3.80	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 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	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

Accessories					
655 047	080 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	* (\$2.\$)	-		
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.



LSP Duct (drain pump included)

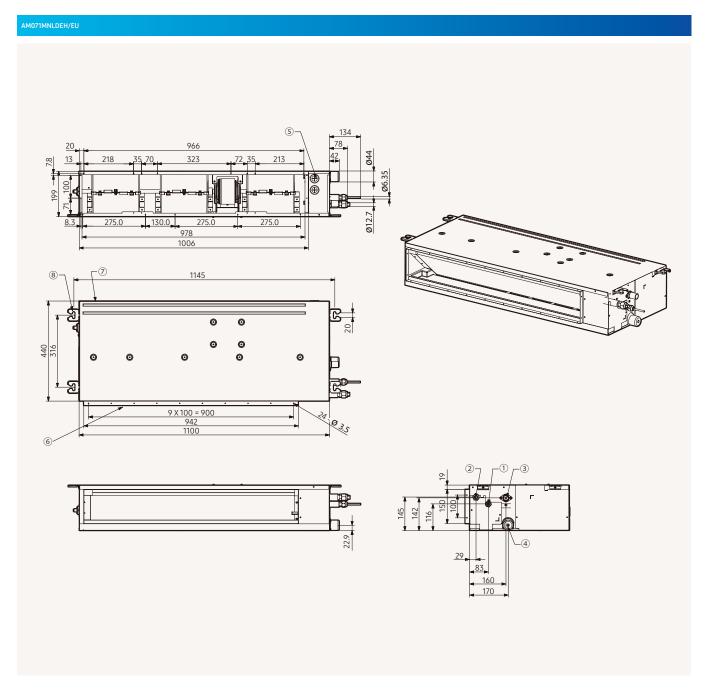


NO	Name	Description
1	Liquid pipe connection	ø6.35 Flare
2	Gas pipe connection	ø12.70 Flare
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
5	Power supply/communication wiring conduits	
6	Air discharge grille flange	
7	Return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

AM045/056MNLDEH/EU 134 78 42 139 Ø6.35 Ø12.7 7-945 প্ত 0 0 440 316 0 0 7 X 100 = 700 742 900 20.03.5 160 170

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	-

AM090/112/128/140MNLDKH/EU 4×290=1160 Suction 6 600 7 ⊃ ⊚ ⊜ 477 Suspension bolts(M8~M10) X 4EA 8 -Duct flange connection bolts(M4) X 32EA 1260 Discharge 124 2*100=200 295 7355 3 337

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.
 Can be controlled by Smartphone via Wi-Fi Kit (Optional).







	Model			AM022ANMPKH/EU	AM028ANMPKH/EU	AM036ANMPKH/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 H
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	A	0.4	0.4	0.4
		Heating	Α	0.4	0.4	0.4
	Current Input (Nominal)	MCA	A	0.67	0.67	0.81
		MFA/MOP	A	15	15	15
Fan	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
Fan Motor	Model		-	BLDC motor (feedback)	BLDC motor (feedback)	BLDC motor (feedback)
	Output x n		W	153 x 1	153 x 1	153 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	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
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)	28/26/24	28/26/24	30/27/24
	Sound Power	Cooling (Nominal)	dB(A)	50	51	53
Dimensions	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
Air 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

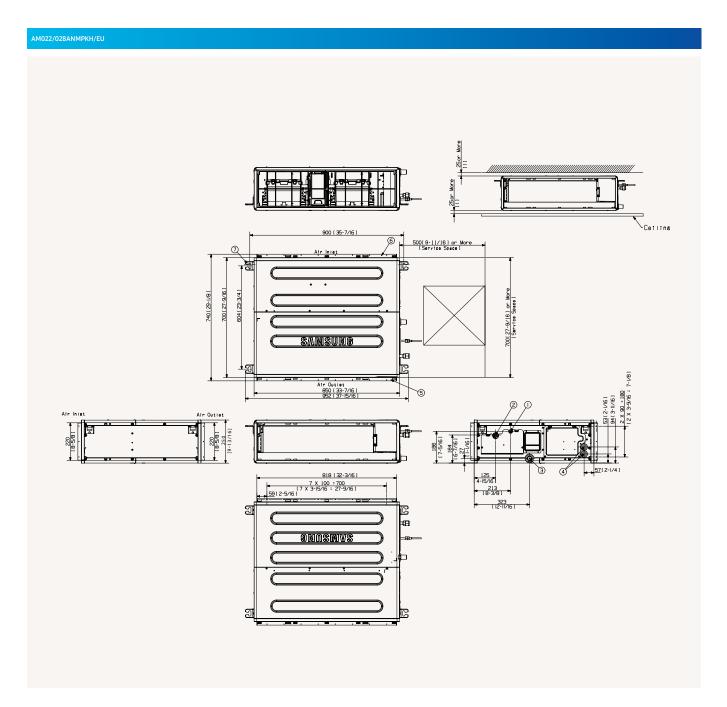
		Accessories		
5 H 5	BBI	-		Statement of the Statem
Wireless Remote Controller	Touch Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
AR-EH03E			MRK-A10N	
(to be matched with MRK-A10N)	MWR-SH11N	MIM-H04EN	(to be matched with AR-EH03E)	MRW-TA

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.

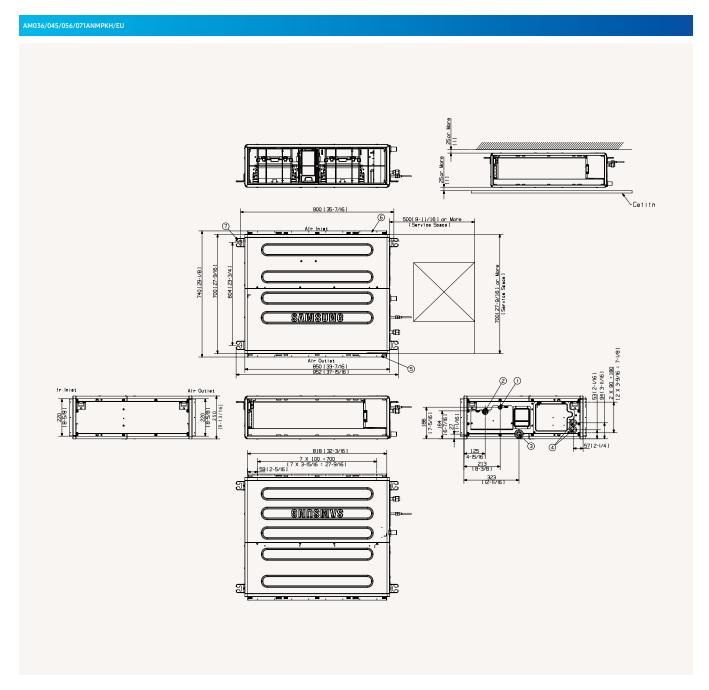


AM045ANMPKH/EU	AM056ANMPKH/EU	AM071ANMPKH/EU	AM090ANMPKH/EU	AM112ANMPKH/EU	AM128ANMPKH/EU	AM140ANMPKH/EU
1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz			
4.5	5.6	7.1	9.0	11.2	12.8	14.0
5.0	6.3	8.0	10.0	12.5	13.8	16.0
55	70	110	135	130	160	210
55	70	110	135	130	160	210
0.5	0.6	1.0	1.2	1.2	1.4	1.7
0.5	0.6	1.0	1.2	1.2	1.4	1.7
0.89	1.08	1.48	1.78	1.97	2.17	2.38
15	15	15	15	15	15	15
Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
2	2	2	3	3	3	3
14.0 / 11.0 / 8.0	16.0 / 13.5 / 9.0	22.0 / 18.0 / 13.0	27.0 / 22.0 / 16.0	30.0 / 25.0 / 18.0	36.0 / 30.0 / 23.0	40.0 / 34.0 / 24.0
233 / 183 / 133	267 / 225 / 150	350 / 300 / 217	450 / 367 / 267	500 / 417 / 300	600 / 500 / 383	667 / 567 / 400
0/3/15	0/3/15	0/3/15	0 / 4 / 15	0 / 5.2 / 15	0 / 5.2 / 15	0 / 5.2 / 15
0.00 / 29.42 / 147.10	0.00/29.42/147.10	0.00/29.42/147.10	0.00 / 39.23/147.10	0.00 / 50.99/147.10	0.00 / 50.99/ 147.10	0.00 / 50.99/ 147.10
BLDC motor (feedback)	BLDC motor (feedback)	BLDC motor (feedback)	BLDC motor (feedback)	BLDC motor (feedback)	BLDC motor (feedback)	BLDC motor (feedback)
153 x 1	153 x 1	153 x 1	153 x 1	244 x 1	244 x 1	244 x 1
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	1.5	1.5	1.5	1.5	1.5	1.5
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 (Fluorinated greenhouse gas, GWF	P=2,088)		
EEV Included	EEV Included	EEV Included	EEV Included	EEV Included	EEV Included	EEV Included
31/28/25	32/29/25	36/32/27	37/33/29	36/33/30	37/34/31	39/36/33
54	57	60	61	61	62	64
27.5	27.5	27.5	35.0	39.5	39.5	39.5
850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	1,200 x 250 x 700	1,300 x 300 x 700	1,300 x 300 x 700	1,300 x 300 x 700
Long-life filter	Long-life filter	Long-life filter	Long-life filter	Long-life filter	Long-life filter	Long-life filter
INCLUDED	INCLUDED	INCLUDED	INCLUDED	INCLUDED	INCLUDED	INCLUDED
750	750	750	750	750	750	750

MSP Duct (drain pump included)

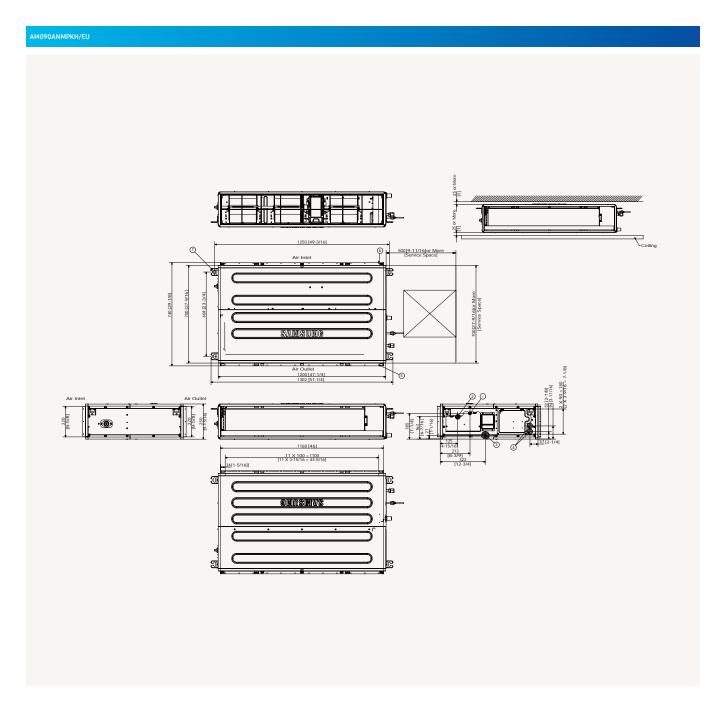


NO	Name	Description
1	Liquid pipe connection	ø6.35 Flare
2	Gas pipe connection	ø12.70 Flare
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
5	Control unit	
6	Power supply/communication wiring conduits	
7	Return air side	
8	Air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



NO	Name	Description			
		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 (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	Power & Comm. Wiring Conduits	-	
5	Supply Air Flange	-	
6	Return Air Flange	-	
7	Hook	-	

AM112/128/140ANMPKH/EU 500[19-11/16] or More (Service Space) Samsung Air Outlet 1300 [51-3/16] 1402 [55-3/16] 84 [3-5/16] OHASMVS

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).
 Can be controlled by Smartphone via Wi-Fi Kit (Optional).







	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 F
Performance	Capacity (Nominal) Coolin	ng	kW	5.6	7.1	9.0
	Heatin		kW	6.3	8.0	10.0
Power	Power Input (Nominal) Coolin		W	70.0	120.0	145.0
	Heatin		W	70.0	120.0	145.0
	Current Input (Nominal) Coolin		Α	0.70	1.00	1.20
	Heatir		A	0.70	1.00	1.20
	Current Input (Nominal) MCA		A	1.37	1.62	2.05
	MFA/I	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	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 / 367.0
	External Static Pressure Min/S	td/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
Piping Connections	Liquid Pipe		ø, mm	6.35	9.52	9.52
			ø, inch	1/4"	3/8"	3/8"
	Gas Pipe		ø, mm	12.7	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	•	/ 20 m/ 0 m	mm²	1.5	1.5	1.5
	Transmission Cable Transm	mission Cable	mm²	0.75	0.75	0.75
	Remai	rk	-	F1,F2	F1,F2	F1,F2
Refrigerant	Туре		-	R410A (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 Coolin	ng	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
Air Filter			-	Long-life Filter	Long-life Filter	Long-life Filter
Additional	Drain Pump Intern	ıal	-	INCLUDED	INCLUDED	INCLUDED
Accessories	Extern	nal	-	-	-	-
		ifting Height/	mm / litres/h	750/24	750/24	750/24

Accessories Accessories									
	The state of the s	895 123	888 444	****) -		in the state of th		
Drain Pump (optional)	Drain Pump (optional)	Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor		
MDP-G075SP/Q	MDP-N047SNC1D	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		

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.







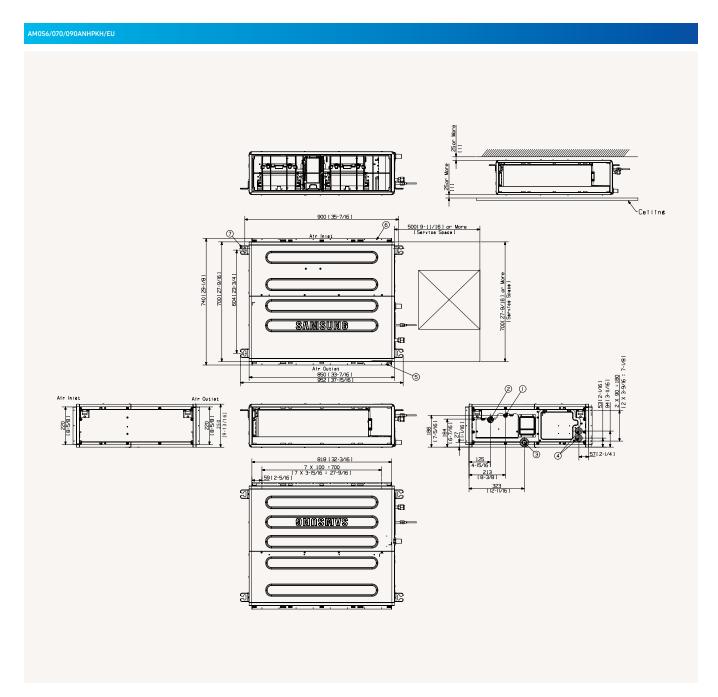




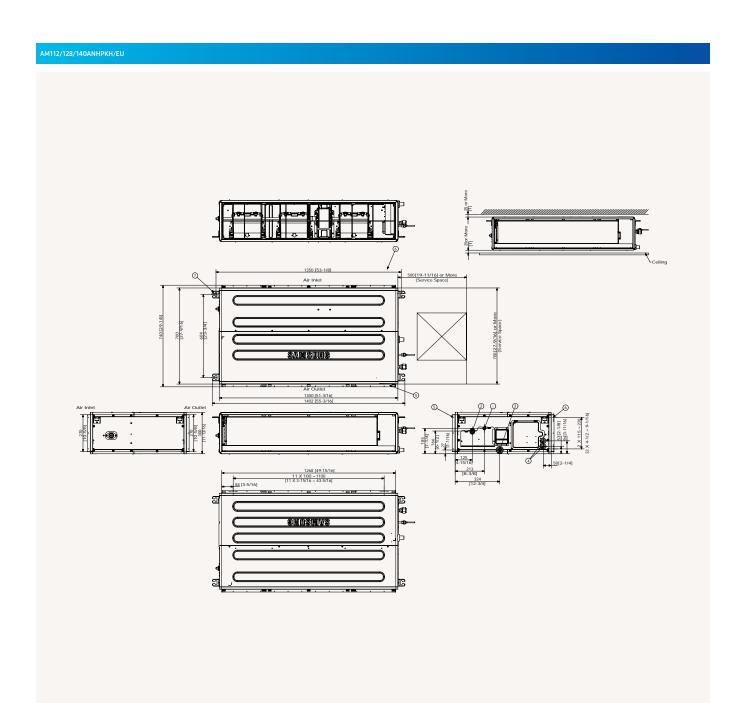


AM112ANHPKH/EU	AM128ANHPKH/EU	AM140ANHPKH/EU	AM180JNHFKH/EU	AM220FNHDEH/EU	AM280FNHDEH/EU
1Ф, 2, 220–240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz
11.2	12.8	14.0	18.0	22.4	28.0
12.5	13.8	16.0	20.0	25.0	31.5
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	5.72	5.80	8.64
15	15	15	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	1,200.00/1,083.33/966.6
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 x1	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 greer	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

HSP Duct

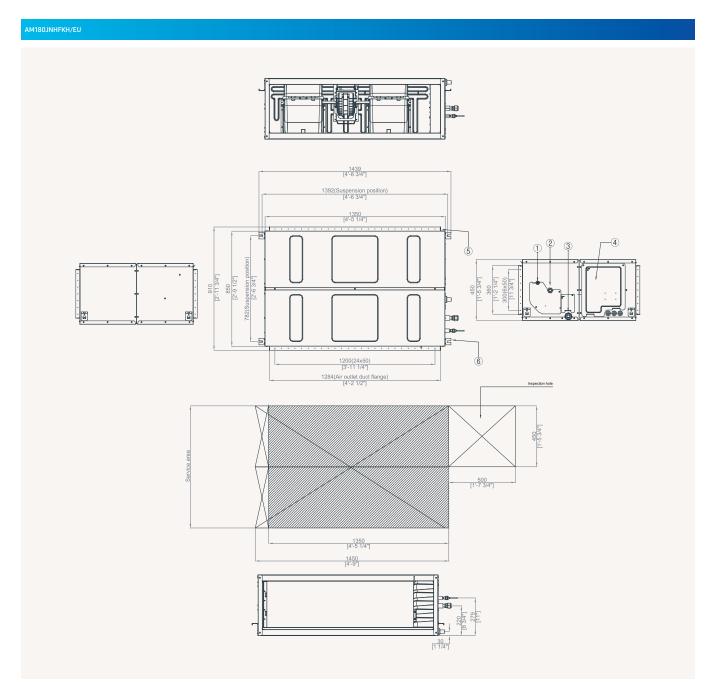


NO	Name	Description
1	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
2	Refrigerant Gas Pipe	Φ15.88 [5/8"] Flare Connection
3	Condensate Drain	VP25 (OD 32, ID 25)
4	Power & Comm. Wiring Conduits	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-
8	Hook	3/8 or M10



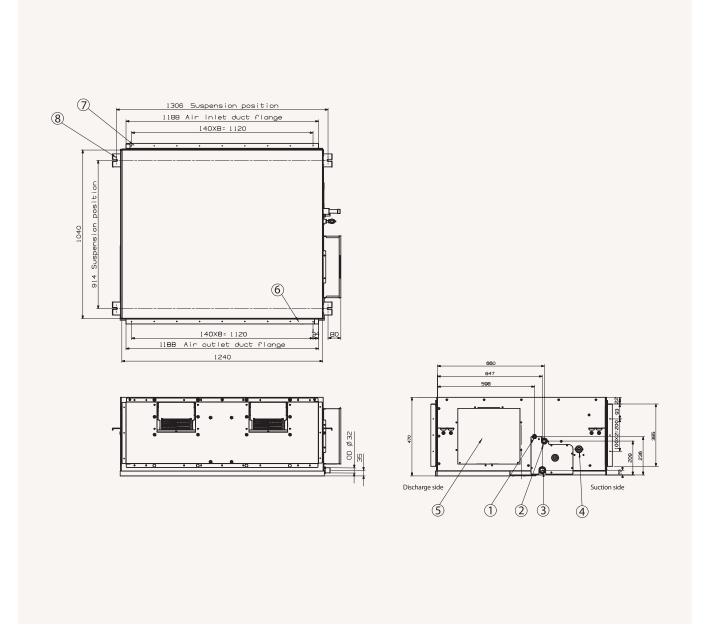
NO	Name	Description	
1	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection	
2	Refrigerant Gas Pipe	Φ15.88 [5/8"] Flare Connection	
3	Condensate Drain	VP25 (OD 32, ID 25)	
4	Power & Comm. Wiring Conduits	-	
5	Supply Air Flange	-	
6	Return Air Flange	-	
7	Hook	-	
8	Hook	3/8 or M10	

HSP Duct



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

AM220/280FNHDEH***



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

- Slim design: only 199 mm in depth. Turbo fan with single-phase inverter motor. Two separate air outlets to avoid stratification. Long-life washable permanent filter.

- Can be controlled by Smartphone via Wi-Fi Kit (Optional).
 Auto Restart function.









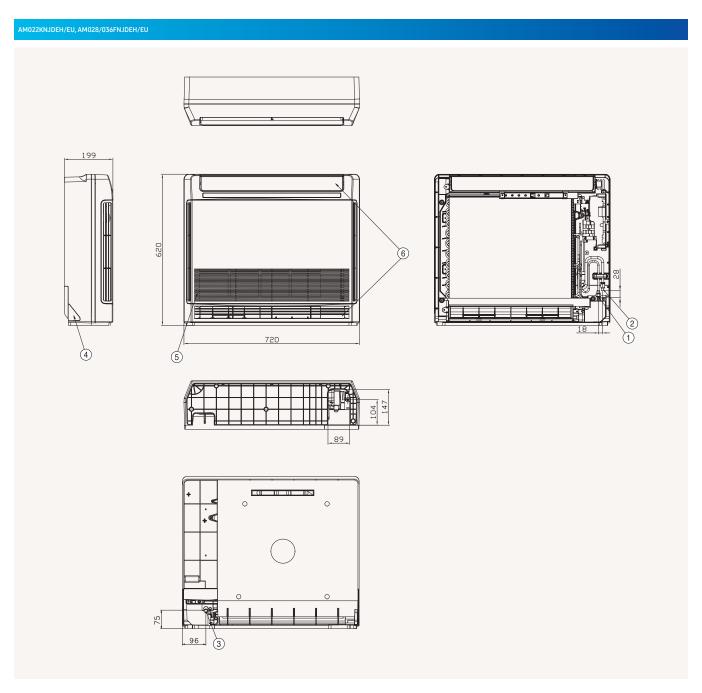


	Model			AM022KNJDEH/EU	AM028FNJDEH/EU	AM036FNJDEH/EU	AM045KNJDEH/EU	AM056FNJDEH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz
Performance	Capacity	Cooling	kW	2.8	2.8	3.6	4.5	5.6
(Nominal)	(Nominal)	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	Α	0.25	0.25	0.29	0.30	0.49
	(Nominal)	Heating	Α	0.25	0.25	0.29	0.30	0.49
Fan	Motor	Туре	-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
		Output	W	37	37	37	37	37
		Number of Fans	ea	1	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 Wi	ire	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
Refrigerant	Туре		-		R410A (F	luorinated 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

	Accessories					
880 and 0 4 2 1	e (2)	-	Tenerous .			
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor			
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA			

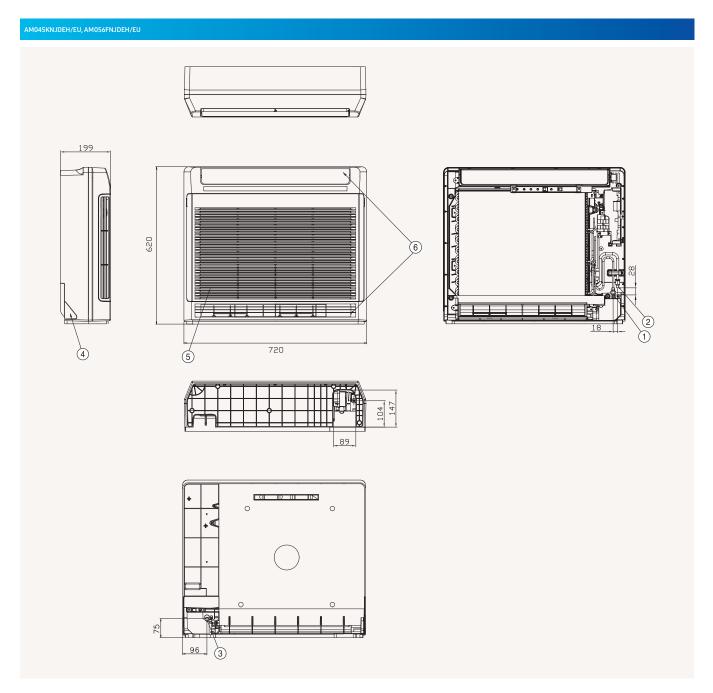
Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

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			

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 cost: 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.
 Can be controlled by Smartphone via Wi-Fi Kit (Optional).



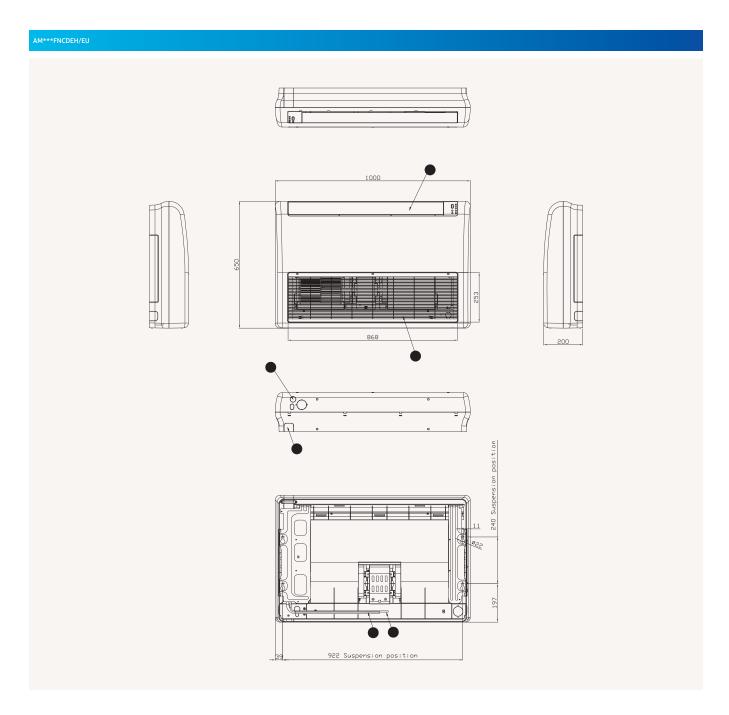


	Model			AM056FNCDEH/EU	AM071FNCDEH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	5.6	7.1
		Heating	kW	6.3	8.0
Power	Power Input (Nominal)	Cooling	W	72	80
		Heating	W	72	77
	Current Input (Nominal)	Cooling	Α	0.33	0.35
		Heating	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			
BBB sales	m (2) (2)	-	manual and a second		2	
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

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.

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 Hose			
4	Power supply/communication wiring conduits				
5	Air inlet grille				
6	Air outlet louvre				

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.

• Can be controlled by Smartphone via Wi-Fi Kit (Optional).



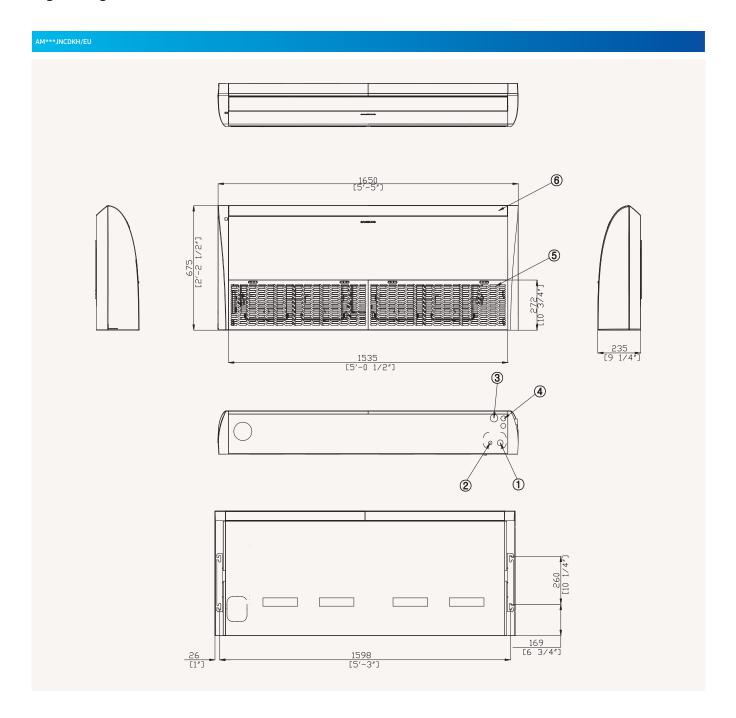


	Model			AM112JNCDKH/EU	AM140JNCDKH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	11.2	14.0
		Heating	kW	12.5	16.0
Power	Power Input (Nominal)	Cooling	W	92.0	160.0
		Heating	W	80.0	160.0
	Current Input (Nominal)	Cooling	Α	0.94	1.45
		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				
98 h - 10 c 4 c 4 c 4 c 4 c 4 c 4 c 4 c 4 c 4 c	n' (\$1.5 h)	-	THE STATE OF THE S	
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA	

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.

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

Concealed Floor-Standing

- Silent operation.
 Sirocco fan driven by inverter motor.
 Can be controlled by Smartphone via Wi-Fi Kit.
 Long-life washable permanent filter.

Auto Restart function.





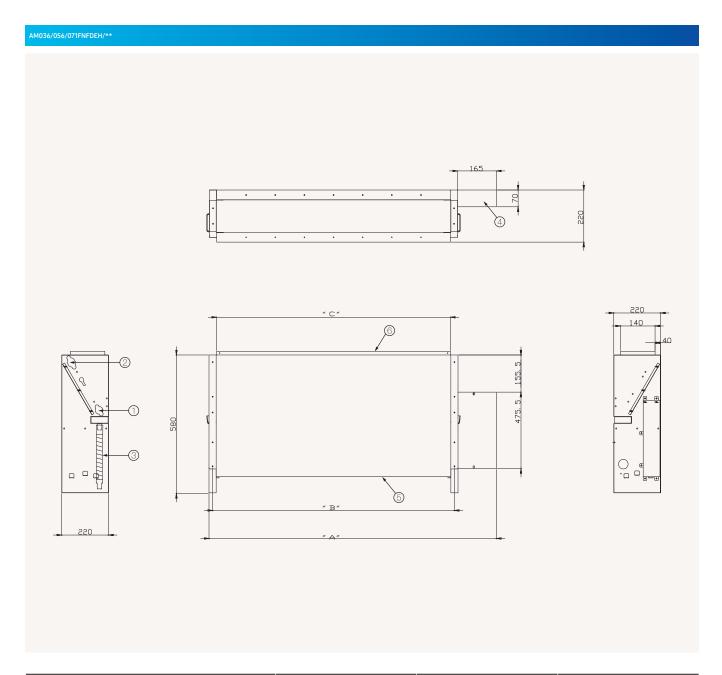


	Model			AM036FNFDEH/EU	AM056FNFDEH/EU	AM071FNFDEH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 H:
Performance	Capacity (Nominal)	Cooling	kW	3.6	5.6	7.1
		Heating	kW	4.0	6.3	8.0
Power	Power Input (Nominal)	Cooling	W	50	110	110
		Heating	W	50	110	110
	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	
日日 - 日日	* ((2) *)		2000
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA

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.

Concealed Floor-Standing



Model	A	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			

Concealed Floor-Standing High Static Pressure

- Silent operation.
 Sirocco fan driven by inverter motor.
 Can be controlled by Smartphone via Wi-Fi Kit.
 Long-life washable permanent filter.

Auto Restart function.





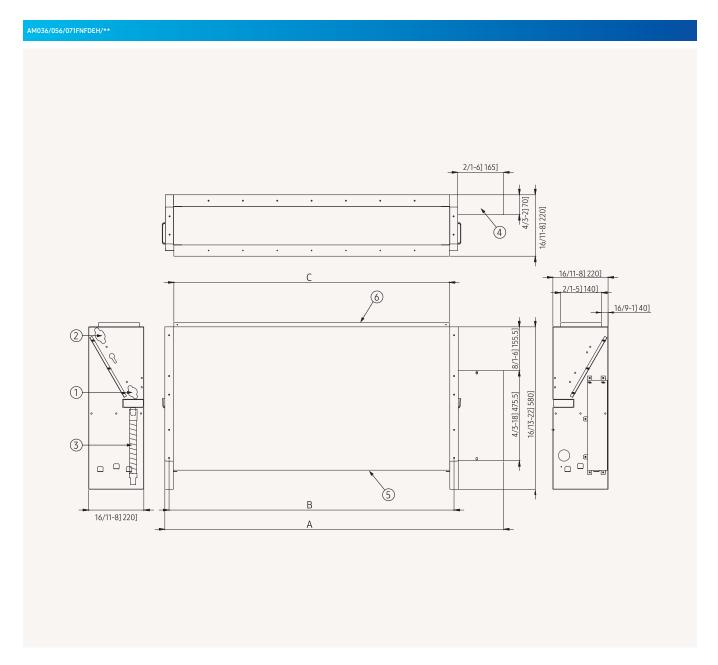


	Model			AM036MNFDEH/EU	AM056MNFDEH/EU	AM071MNFDEH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	3.6	5.6	7.1
		Heating	kW	4.0	6.3	8.0
Power	Power Input (Nominal)	Cooling	kW	0.022	0.042	0.042
		Heating	kW	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
Fan	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
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		-	R410A (Fluorinated greenhouse gas, GWP=2,088)		,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
	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	
BBh die	* (() *)		3000
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA

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.

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.
- Sirocco fan driven by inverter motor.
 Can be controlled by Smartphone via Wi-Fi Kit.



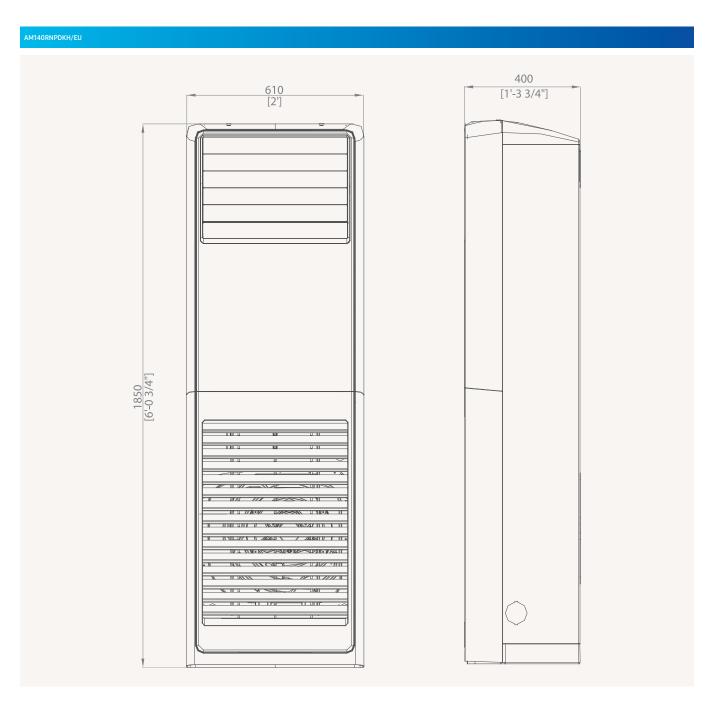


	Model			AM140RNPDKH/EU	AM280RNPDKH/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220–240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	14	28
		Heating	kW	16	31.5
Power	Power Input (Nominal)	Cooling	W	190	955
		Heating	W	190	955
	Current Input (Nominal)	Cooling	Α	0.90	4.73
		Heating	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 gree	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



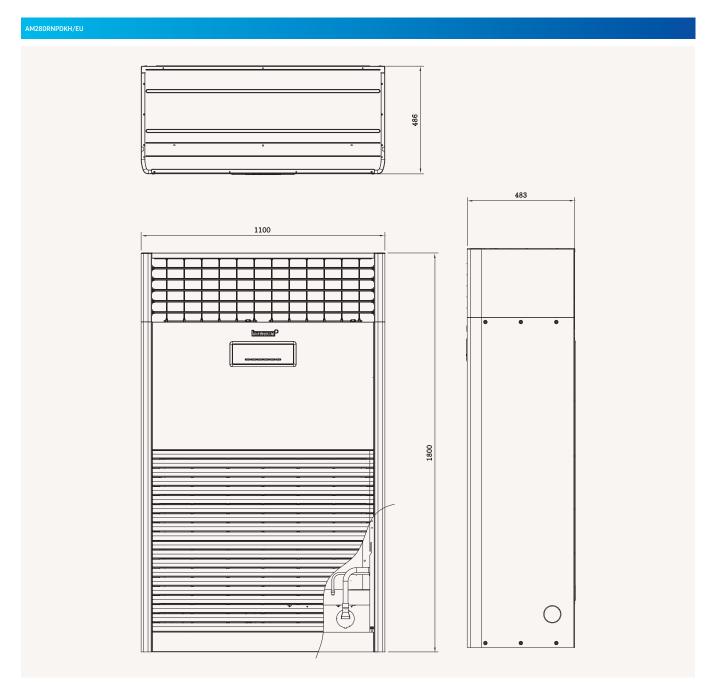
¹ Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

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



Model				AM015KNTDEH/EU	AM022KNTDEH/EU	AM028KNTDEH/EU
Model				AMOTSKINT DEH/EU	AMUZZKNIDEH/EU	AMUZSKNIDEH/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		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
an 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
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
Refrigerant	Туре		-	R410	A (Fluorinated greenhouse gas, GWP=2	,088)
	Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
ound	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
Air Filter			-	Pre filter	Pre filter	Pre filter

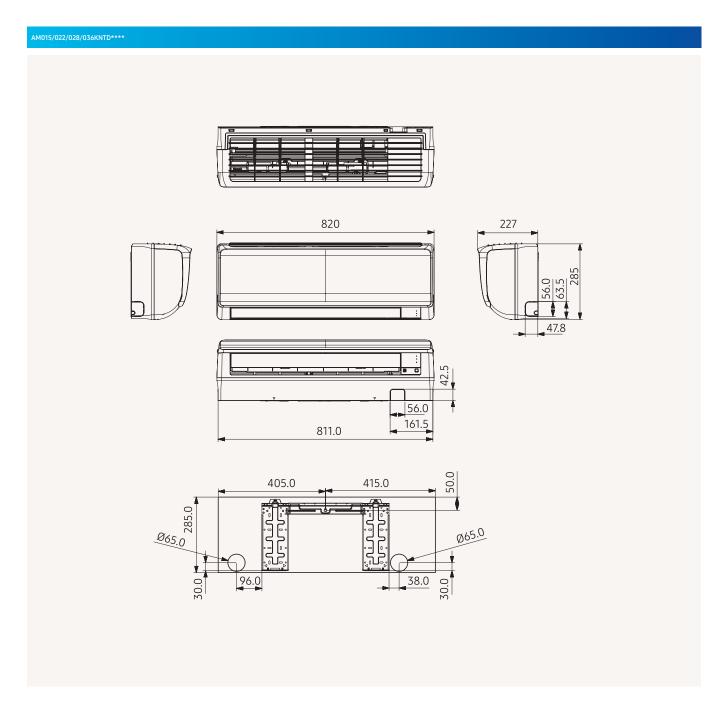
			Acc	essories			
999 040	88n mm	* (*) *	-	Description of the Control of the Co	_0		
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	EEV Kit 1 Indoor	EEV Kit 2 Indoor	EEV Kit 3 Indoor
AR-EH03E	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA	MEV-**SA	MXD-E24/32K***A	MXD-E24/32K***A

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.



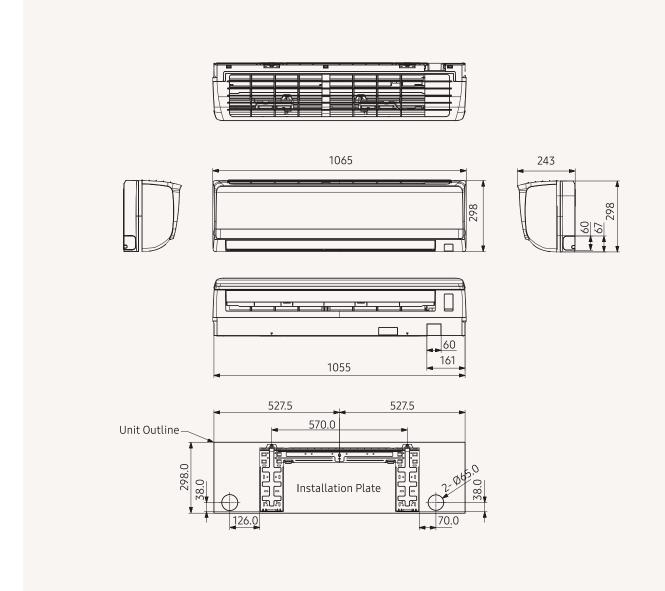
AM036KNTDEH/EU	AM045KNTDEH/EU	AM056KNTDEH/EU	AM071KNTDEH/EU
1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz 1Ф, 2, 220–240 V, 50 Hz		1Ф, 2, 220-240 V, 50 Hz
3.6	4.5	5.6	6.8
4.0	5.0	6.3	7.0
42.0	47.0	48.0	51.0
42.0	47.0	48.0	53.0
0.23	0.27	0.27	0.28
0.23	0.27	0.27	0.28
0.4	0.4	0.4	0.4
15.0	15.0	15.0	15.0
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	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 greer	house 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
Pre filter	Pre filter	Pre filter	Pre filter

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	-

AM045/056/071KNTD****



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



Model				AM015KNQDEH/EU	AM022KNQDEH/EU	AM028KNQDEH/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
Performance		Cooling	kW	1.5	2.2	2.8
		Heating	kW	1.7	2.5	3.2
ower	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
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)	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
Air Filter			-	Pre filter	Pre filter	Pre filter

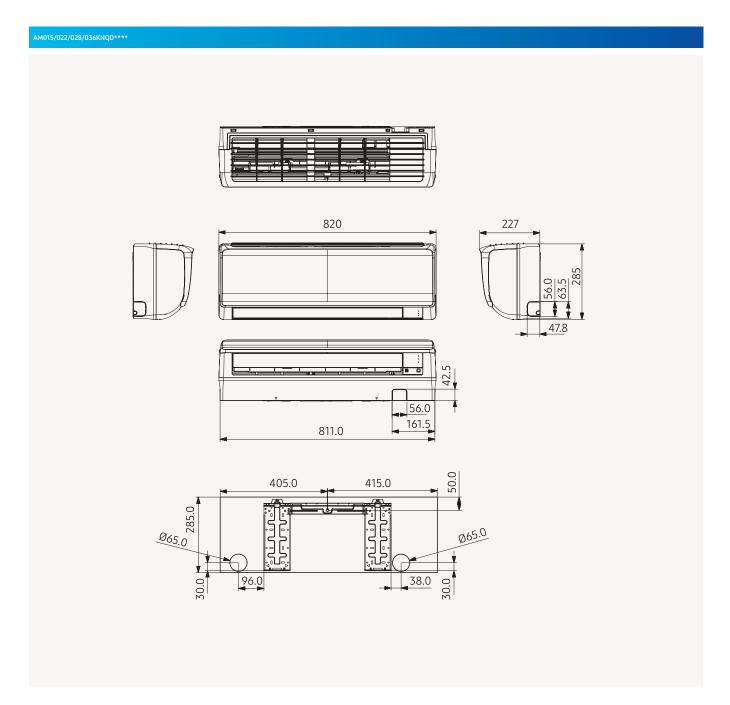
		Accessories		
999	98h-min	*(0.0)	-	Section 1
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
AR-EH03E	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA

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.



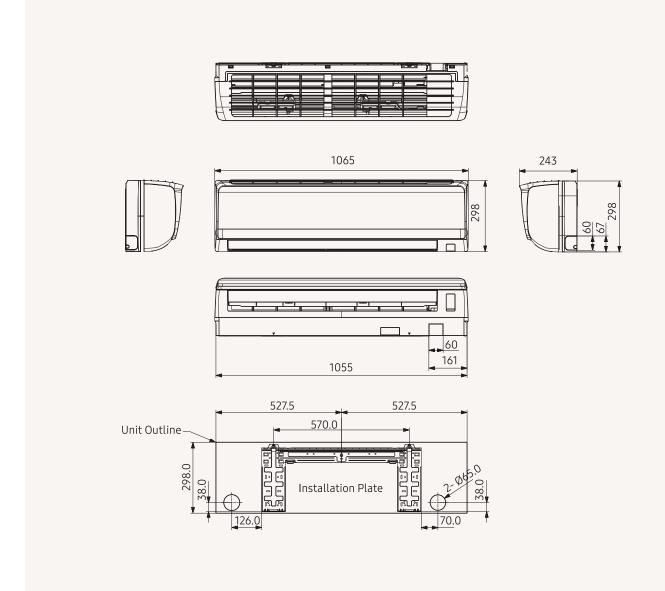
AM036KNQDEH/EU	AM045KNQDEH/EU	AM056KNQDEH/EU	AM071KNQDEH/EU
1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz
3.6	4.5	5.6	6.8
4.0	5.0	6.3	7.0
42.0	47.0	48.0	51.0
42.0	47.0	48.0	53.0
0.23	0.27	0.27	0.28
0.23	0.27	0.27	0.28
0.4	0.4	0.4	0.4
15.0	15.0	15.0	15.0
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
Pre filter	Pre filter	Pre filter	Pre filter

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	-

AM045/056/071KNQD****



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, Dehumidification mode and WindFree™ Cooling mode.
 Wi-Fi Control with SmartThings and Bixby voice controls.
 Equipped with Easy Filter Plus.







				AM015TNVDKH/EU	AM022TNVDKH/EU	AM028TNVDKH/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
	MCA		Α	0.2	0.2	0.3
	MFA		Α	15	15	15
an	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
iping	Liquid Pipe		ø, mm	6.35	6.35	6.35
onnections			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
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
	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)	31/30/27/26 (WindFree™)	34/32/30/27 (WindFree™)	34/33/32/26 (WindFree™)
	Sound Power	Cooling	dB(A)	50	51	52
imensions	Net Weight		kg	9.0	9.0	9.5
	Net Dimensions (W × H × D))	mm	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215
Air Filter			-	Easy Filter Plus	Long-life Filter	Long-life Filter

Accessories Accessories					
913	88h min	- (\$\frac{1}{2}\).	-		
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit		
AR-EH03E	MWR-SH11N	MWR-WG00*N	MIM-H04EN		

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.





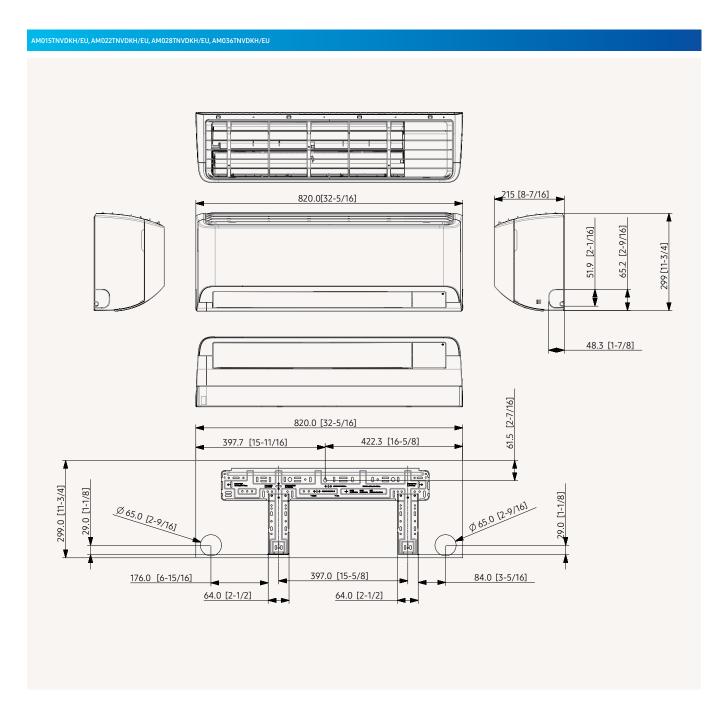






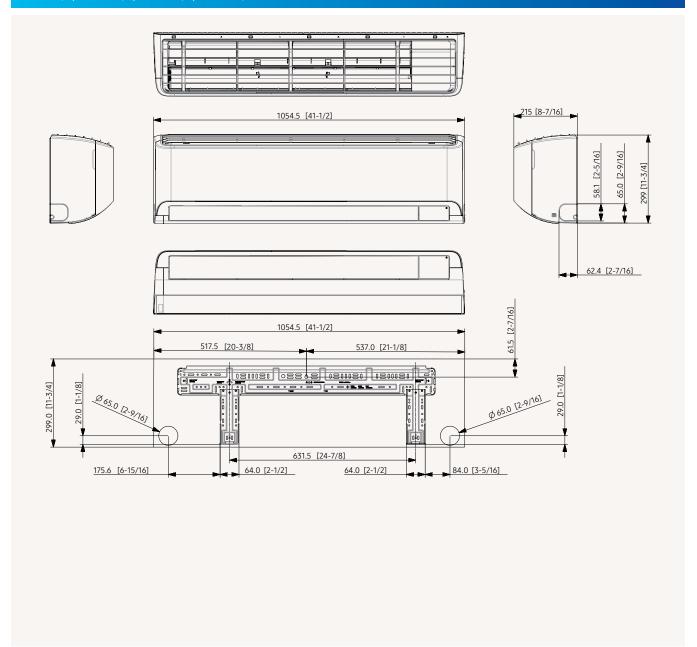
AM036TNVDKH/EU	AM045TNVDKH/EU	AM056TNVDKH/EU	AM071TNVDKH/EU	AM082TNVDKH/EU
1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz
3.6	4.5	5.6	6.8	8.2
4.0	5.0	6.3	7.0	8.5
37	40	52	60	65
37	40	52	60	65
0.25	0.27	0.35	0.40	0.43
0.25	0.27	0.35	0.40	0.43
0.3	0.3	0.4	0.5	0.5
15	15	15	15	15
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
F1, F2	F1, F2	F1, F2	F1, F2	F1, F2
	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
Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter

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	

AM045TNVDKH/EU, AM056TNVDKH/EU, AM071TNVDKH/EU, AM082TNVDKH/EU



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, Dehumidification mode and WindFree™ Cooling mode.
 Wi-Fi Control with SmartThings and Bixby voice controls.
 Equipped with Easy Filter Plus.







				AM015TNADKH/EU	AM022TNADKH/EU	AM028TNADKH/EU
ower 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
	MCA		Α	0.2	0.2	0.3
	MFA		A	15	15	15
an	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
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
	Remark		-	F1, F2	F1, F2	F1, F2
Refrigerant	Type -		R410A (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 (W × H × D)		mm	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215
Air Filter			-	Easy Filter Plus	Long-life Filter	Long-life Filter

			Accessories			
979 040	88a and 0 4 3 4 4	· (\$1.5)	-		20	
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

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.





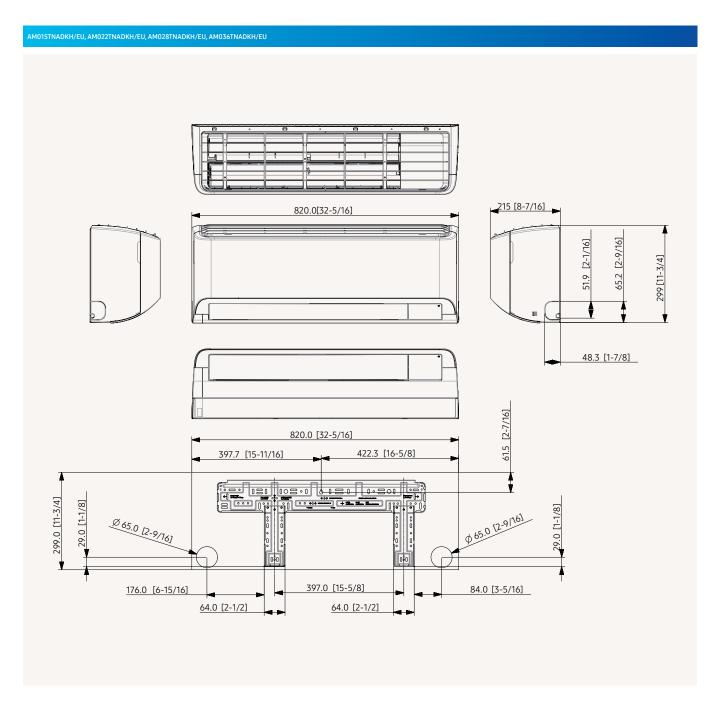






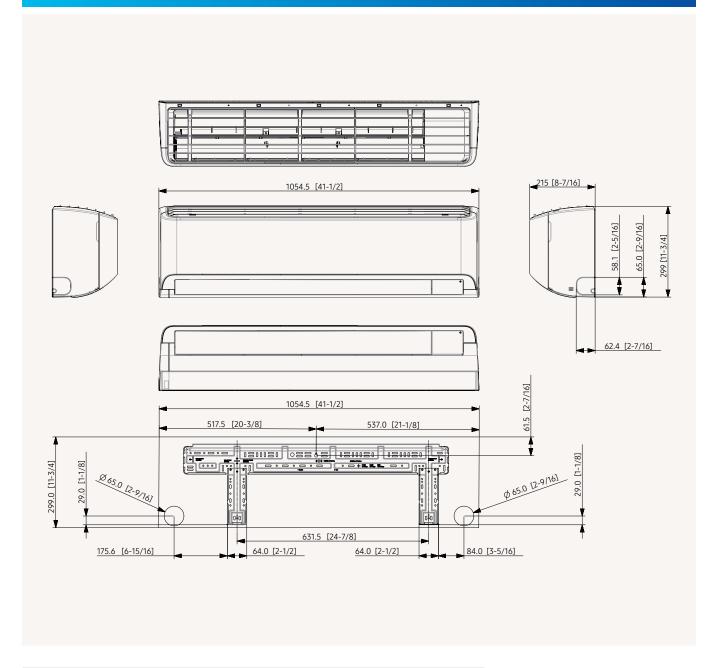
AM036TNADKH/EU	AM045TNADKH/EU	AM056TNADKH/EU	AM071TNADKH/EU	AM082TNADKH/EU
1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz	1Ф, 2, 220~240 V, 50/60 Hz
3.6	4.5	5.6	6.8	8.2
4.0	5.0	6.3	7.0	8.5
37	40	52	60	65
37	40	52	60	65
0.25	0.27	0.35	0.40	0.43
0.25	0.27	0.35	0.40	0.43
0.3	0.3	0.4	0.5	0.5
15	15	15	15	15
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
F1, F2	F1, F2	F1, F2	F1, F2	F1, F2
	R41	OA (Fluorinated greenhouse gas, GWP = 2,	088)	
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
Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter

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 pre 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).
 Can be controlled by Smartphone via Wi-Fi Kit (Optional).

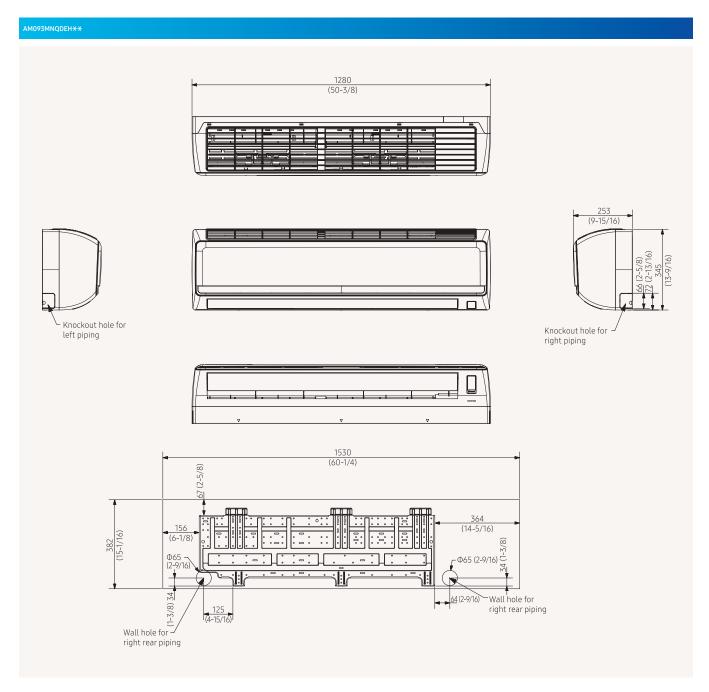


Model				AM093MNQDEH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz
Performance	Capacity	Cooling	kW	9.3
		Heating	kW	9.8
Power	Power Input	Cooling	W	66
		Heating	W	76
	Current Input	Cooling	Α	0.47
		Heating	Α	0.54
	Current	MCA	Α	0.68
		MFA	Α	15
an	Туре		-	Crossflow Fan
	Number of Fans		ea	1
	Airflow 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
iping 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
Viring Connections	Communication	Min.	mm²	0.75
		Remark	-	F1, F2
Refrigerant	Туре		-	R410A (Fluorinated greenhouse gas, GWP=2,088)
	Electronic Expansion Valve		-	EEV INCLUDED
ound	Sound Pressure ¹	H/M/L	dB(A)	49/46/42
	Sound Power	Cooling	dB(A)	66
imensions	Net Weight		kg	18.5
	Net Dimensions (W × H × D)		mm	1,280 x 345 x 253
Air Filter			-	Pre filter

Accessories						
880 miles	# (() b)	-	THE COLUMN TWO IS NOT			
Touch Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor			
MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRW-TA			

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.

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	-

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			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	14.0	28,0	44.8
		Heating	kW	16.0	31.5	50.4
Power	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)		Α	2.2	2.2	2.2
	MFA		A	2.75	2.75	2.75
Heat Exchanger	Туре		-	PHE	PHE	PHE
	Quantity		ea	1	1	1
	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
Piping 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
Refrigerant	Туре		-	R410A (Fluorinated greenhouse gas, GWP=		,088)
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure ¹		dB(A)	27	28	31
	Sound Power		dB(A)	54	56	59
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
Operating	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

Acces	sories
	* (\$0.3)
Wired Remote Controller	Wired 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. Sound pressure level may differ depending on operation conditions.



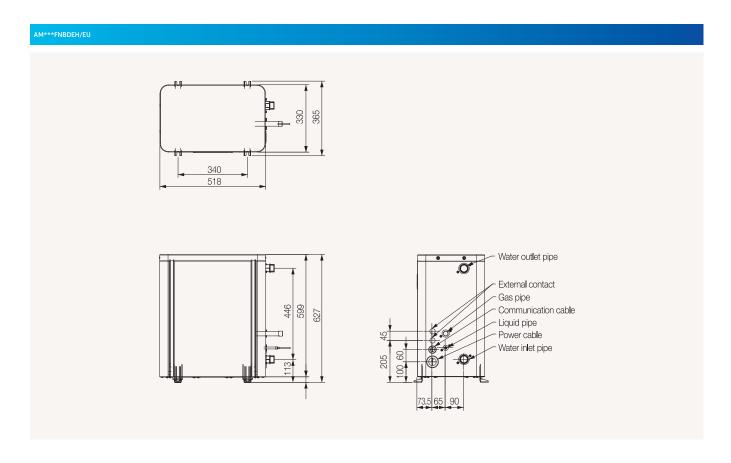


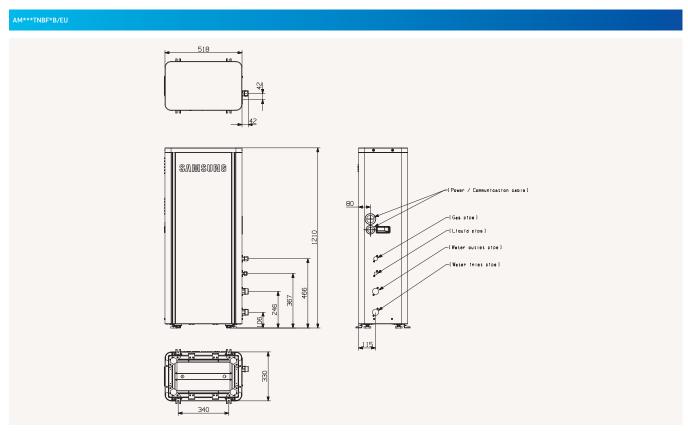




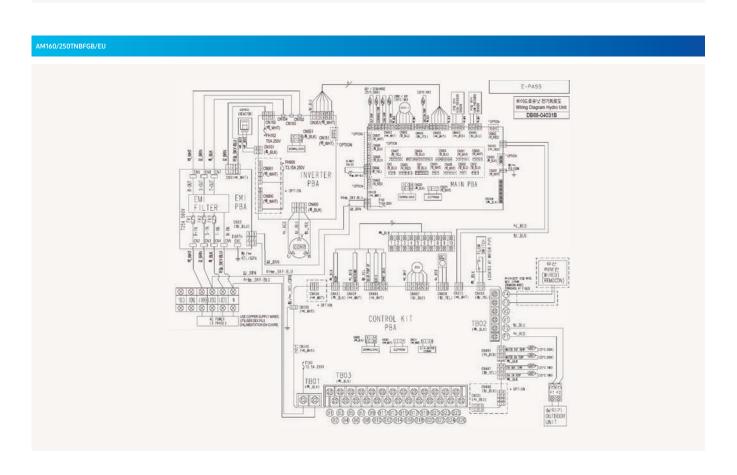
	Model (HT)			AM160TNBFEB/EU	AM160TNBFGB/EU	AM250TNBFEB/EU	AM250TNBFGB/EU
Power Supply			Ф, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	3Ф, 4, 380-415 V, 50 H:
Performance	Capacity (Nominal)	Cooling	kW	-	-	-	-
		Heating	kW	16	16	25	25
Power	Power Input (Nominal)	Cooling	W	-	-	-	-
		Heating	W	3.1	3.1	5.0	5.0
	Current Input (Nominal)	Cooling	Α	-	-	-	-
		Heating	Α	14.30	4.85	23.10	7.85
	MCA (Including External Contact)		Α	18.0	16.1	30.0	16.1
	MFA		Α	25	20	40	20
leat Exchanger	Туре		-	PHE	PHE	PHE	PHE
	Quantity		ea	2	2	2	2
	Pipe Size		ø, inch	PT1 (25A)	PT1 (25A)	PT1 (25A)	PT1 (25A)
	Water Flow Rate		l/min	23	23	36	36
	Flow Switch		l/min	12	12	12	12
iping Connections	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
ield Wiring	Power Source Wire (L<10 m, Single Installation	1)	mm²	4	2.5	4	2.5
	Transmission Cable		mm²	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
tefrigerant	Туре		-		R134A (Fluorinated gree	nhouse gas, GWP=1,430)	
	Control Method		-	EEV	EEV	EEV	EEV
	Factory Charging		kg/tCO₂e	2.15/3.07	2.15/3.07	2.15/3.07	2.15/3.07
ound	Sound Pressure ¹		dB(A)	42	42	42	42
	Sound Power		dB(A)	60	60	61	61
Dimensions	Net Weight		kg	105.0	103.5	105.0	103.5
	Net Dimensions (W × H × D)		mm	518 x 1,210 x 330			
perating	Ambient	Cooling	°C	-	-	-	-
emperature Range		Heating	°C	-20~43	-20~43	-20~43	-20~43
		Hot Water (Main Cooling, HR)	°C	-20~43	-20~43	-20~43	-20~43
	Leaving Water	Heating	°C	25~80	25~80	25~80	25~80

Hydro Unit





하이드로유닛 전기회로도 Wiring Diagram Hydro Ur DB68-04030B 0.648 (#_(E,K) 0.846 (#_(E2) DIU. CNSS1 | Company | Comp 000 1 1 1 0 m INVERTER PBA EMI PBA DOWN, CHICAGO MAIN PBA OMA! DOM: EMI FILTER N.BLU CHICK CHICK CHICK (WC.BRIT) AC POMER 11 PRASES (14,801) (14,801) USE COPPER SUPPLY WIRES. UTILISER DES FILS D'ALIMENTATION EN CUIVRE. CONTROL KIT [(N)(0 (M,RH) MILE STATE OF THE \$1162 72.54 250V TB01



Mode Control Unit (MCU)

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



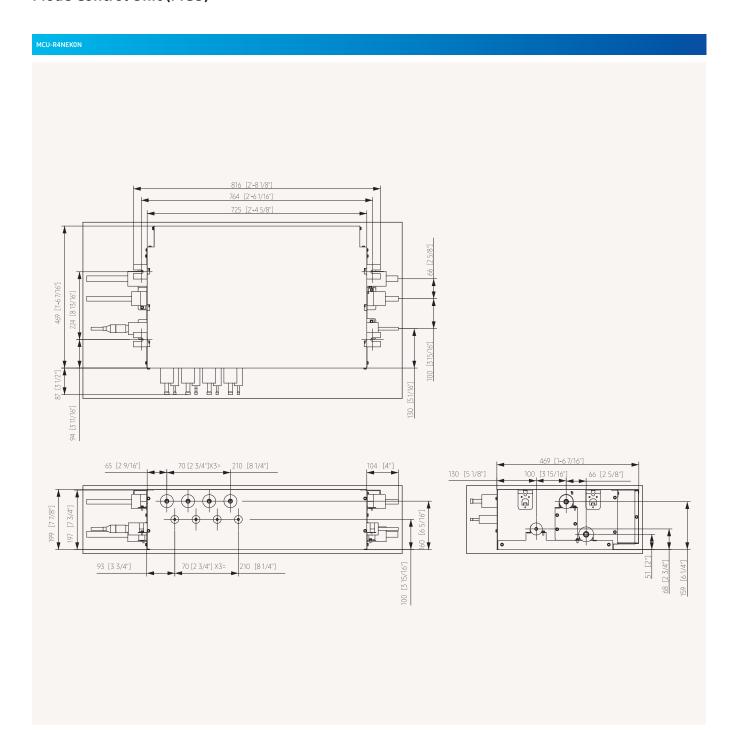


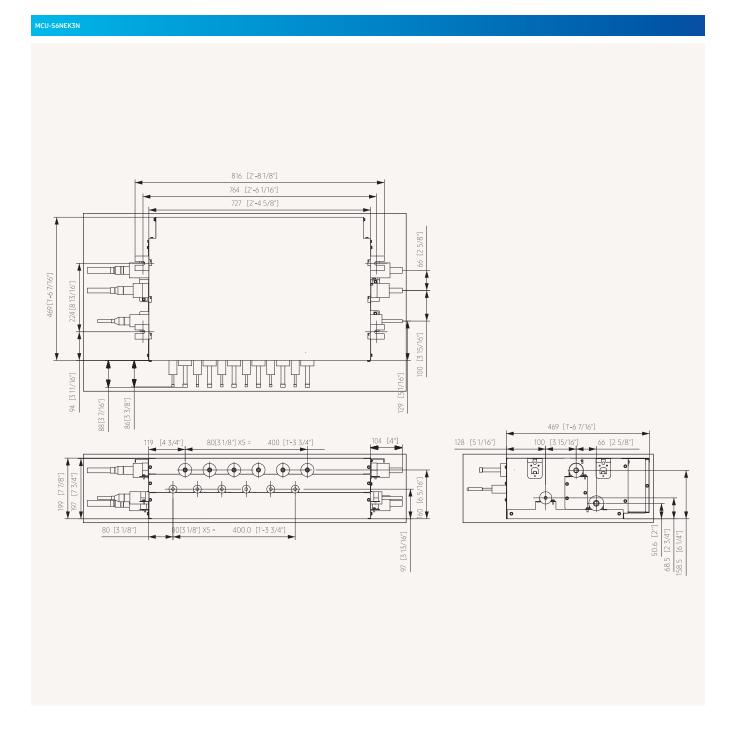
	Model		MCU-R4NEK0N	MCU-S6NEK3N
Туре			HR Changer	MCU
Power Supply		Φ, #, V, Hz	1Ф, 220-240 V, 50/60 Hz	1Ф, 220-240 V, 50/60 Hz
Mode		-	Heat Recovery	Heat Recovery
Max. number of indoor units		ea	12	18
Max. indoor units per port		ea	3	3
Number of ports		ea	4	6
Max. capacity of indoor units		kW	22.4	22.4
Max. capacity of indoor units per port		kW	5.6	5.6
	Y-Joint	kW	14.0	14.0
Refrigerant	Additional Refrigerant Charging	kg/unit	0.5	0.5
Piping Connections	Outdoor Unit - Liquid Pipe	ø, mm	9.52	9.52
		ø, inch	3/8	3/8
	Gas Pipe (Low Pressure)	ø, mm	19.05	19.05
		ø, inch	3/4	3/4
	Gas Pipe (High Pressure)	ø, mm	15.88	15.88
		ø, inch	5/8	5/8
	Indoor Unit - Liquid Pipe	ø, mm	6.35	6.35
		ø, inch	1/4	1/4
	Gas Pipe	ø, mm	12.70	12.70
		ø, inch	1/2	1/2
External Dimensions	Net Weight	kg	21.3	24.3
	Net Dimensions (W x H x D)	mm	728 x 199 x 469	728 x 199 x 469
Operating Temperature Range	Cooling	°C	-5~48	-5~48
	Heating	°C	-25~26	-25~26



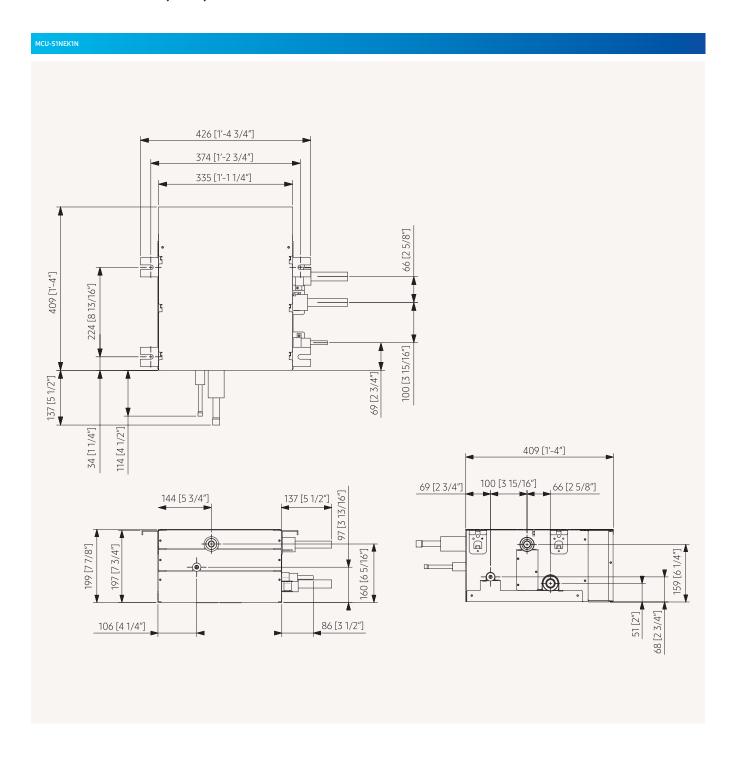
	Model			MCU-S1NEK1N	MCU-S2NEK2N	MCU-S4NEK3N	MCU-S6NEK2N
Power Supply			Ф, #, V, Hz		10, 2, 220~240 V, 50 Hz	,1Ф, 2, 208~230 V, 60 Hz	
Power	Power Input (Nominal)	Cooling	W	19	25	40	55
	·	Heating	W	19	25	40	55
	Current Input (Nominal)	Cooling	Α	0.20	0.20	0.20	0.30
		Heating	Α	0.20	0.20	0.20	0.30
	MCA		Α	2.0	2.0	2.0	2.0
	MFA (MOP)		A	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
Field 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 Changeov	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)

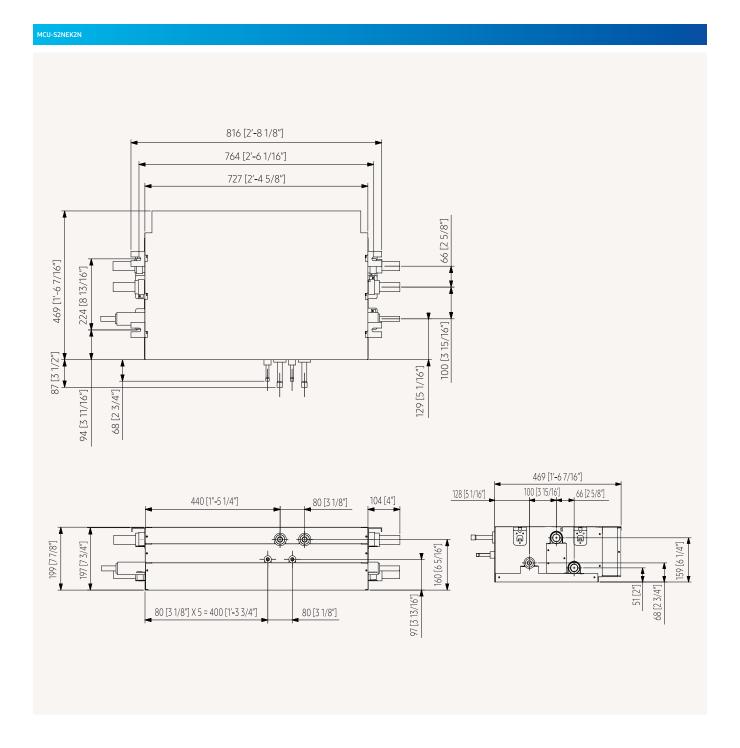
Mode Control Unit (MCU)



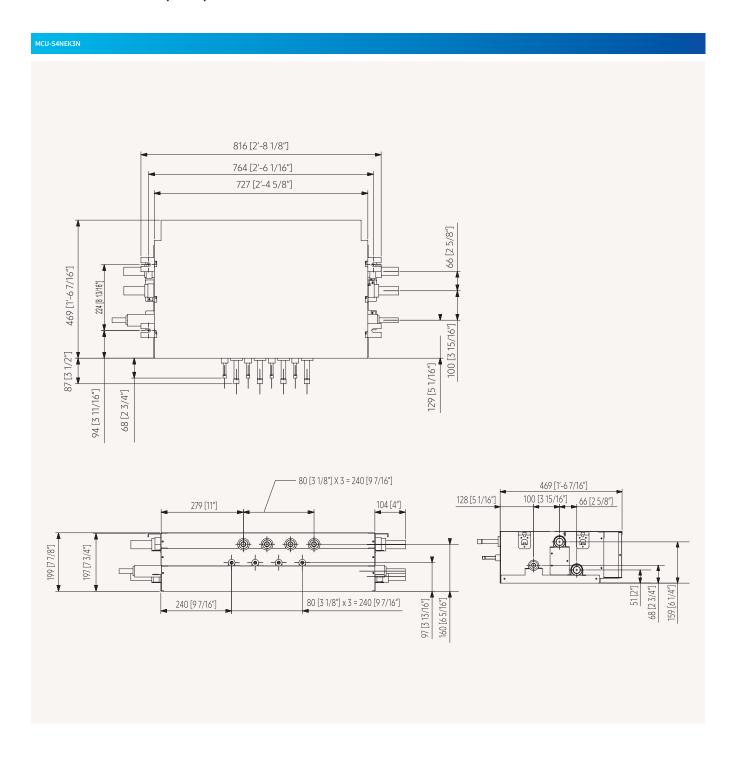


Mode Control Unit (MCU)





Mode Control Unit (MCU)



MCU-S6NEK2N 816 [2'-8 1/8"] 764 [2-6 1/16"] 727 [2'-4 5/8"] 66 [2 5/8"] 469 [1'-6 7/16"] 224 [8 13/16"] 100 [3 15/16"] 87 [3 1/2"] 129 [5 1/16"] 94 [3 11/16"] 68 [2 3/4"] 469 [1'-6 7/16"] 100 [3 15/16"] 66 [2 5/8"] 119 [4 3/4"] 80 [3 1/8"] X 5 = 400 [1'-3 3/4"] 104 [4"] 128 [5 1/16"] 160 [6 5/16"] 199 [7 7/8"] Ģ 97 [3 13/16"] 80 [3 1/8"] 80 [3 1/8"] X 5 = 400 [1'-3 3/4"] 51 [2"] 68 [2 3/4"]

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.







	11.10				AHU Kit	
	Model			MXD-K025AN	MXD-K050AN	MXD-K075AN
Connectable Outdoor				HP/HR	HP/HR	HP/HR
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
Design	AHU Capacity Allowance	Max.	kW	8.8	17.5	24.9
Recommendation			MBH	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
Piping Connections	High pressure pipe from outdoor unit		ø, mm	9.52	9.52	9.52
(EEV Kit)			ø, inch	3/8	3/8	3/8
	High pressure pipe to AHU		ø, mm	9.52	9.52	9.52
			ø, inch	3/8	3/8	3/8
Sensor	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		Type/Φ	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		Type/Φ	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
Refrigerant	Туре		-	R410	A (Fluorinated greenhouse gas, GWP=2	088)
EEV Kit	Туре		-	INCLUDED	INCLUDED	INCLUDED
	EEV Wire Length		m	2	2	7
			ft	6.6	6.6	23.0
External 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







AHU Kit	Control Kit	EEV Kit (Optional)
MXD-K100AN	MCM-D201N	MXD-A64K100E
HP/HR	HP	НР
1Φ, 2, 220-240 V, 50/60 Hz	1Ф, 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	-	-
R410	A (Fluorinated greenhouse gas, GWP=	2,088)
INCLUDED	NOT INCLUDED	-
7	-	7
23.0	-	23.0
415 x 102 x 170	-	Accessory for MCM-D201N, ordered separately (1 per 10HP)
380 x 130 x 280	385 x 53 x 275	-



Line-up outdoor



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

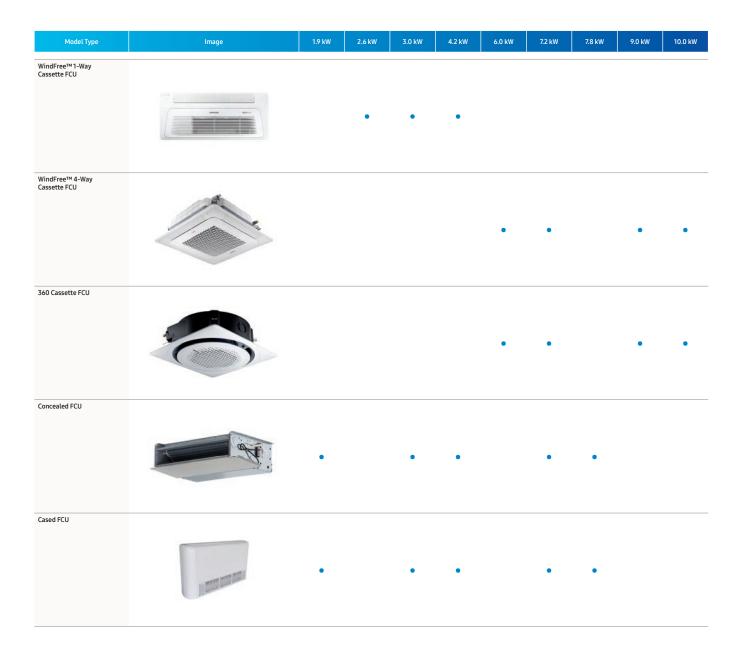
Combination guide - outdoor

Modulation guide

Total Capacity			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

KWW AG042 AG056 AG070 controller piping 455 7 125 462 11 125 504 9 125 504 (high efficiency) 12 8 125 546 13 125 125 560 10 125 125 585 9 125 125 588 14 125 125 616 11 125 125 650 15 12 125 672 12 12 125 672 (high efficiency) 16 12 125 775 11 150 125 780 13 12 150 784 14 15 150 845 13 150 150	Total Capacity		Model		Suggested ø water type
462 11 125 504 9 125 504 (high efficiency) 12 125 520 8 125 546 13 125 560 10 10 125 585 9 125 588 14 125 616 11 125 630 15 125 650 10 10 125 650 10 10 125 650 11 11 125 650 15 12 125 672 12 12 125 672 12 12 125 672 12 125 672 12 125 673 13 125 784 14 150 784 14 150 8840 15 15 150 8845 15 15 150	(kW)	AG042	AG056	AG070	controller
504 9 125 504 (high efficiency) 12 125 520 8 125 546 13 125 560 10 125 585 9 125 588 14 125 630 15 125 650 10 125 672 12 125 672 (high efficiency) 16 12 125 715 11 150 125 728 13 12 150 780 12 150 150 840 15 15 150 845 13 150 150	455			7	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 12 672 10 125 672 (high efficiency) 16 12 125 715 11 150 728 13 12 150 784 14 150 840 15 15 150 845 13 150	462	11			125
520 8 125 546 13 125 560 10 125 585 9 125 588 14 125 616 11 125 630 15 12 672 12 12 672 (high efficiency) 16 12 125 715 11 150 728 13 12 150 780 12 150 150 840 15 15 150 845 13 150	504		9		125
546 13 125 560 10 125 585 9 125 588 14 125 616 11 125 630 15 10 125 650 10 125 672 12 12 125 672 (high efficiency) 16 12 125 715 11 150 15 728 13 12 150 784 14 150 150 840 15 15 150 845 13 150 150	504 (high efficiency)	12			125
560 10 125 585 9 125 588 14 125 616 11 125 630 15 10 125 650 10 125 672 12 125 672 high efficiency) 16 12 125 715 11 150 728 13 125 780 12 150 784 14 150 840 15 15 845 13 150	520			8	125
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630 15 125 650 10 125 672 12 12 125 672 (high efficiency) 16 125 715 11 150 728 13 12 150 784 14 150 840 15 15 150	588	14			125
650 10 125 672 12 125 672 (high efficiency) 16 125 715 11 150 728 13 12 150 780 12 150 784 14 150 840 15 150	616		11		125
672 12 125 672 (high efficiency) 16 125 715 11 150 728 13 12 150 784 14 150 840 15 150 845 13 150	630	15			125
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728 13 125 780 12 150 784 14 150 840 15 150 845 13 150	672 (high efficiency)	16			125
780 12 150 784 14 150 840 15 150 845 13 150	715			11	150
784 14 150 840 15 150 845 13 150	728		13		125
840 15 150 845 13 150	780			12	150
845 13 150	784		14		150
15 150	840		15		150
896	845			13	150
150	896		16		150
910 14 150	910			14	150
975 15 150	975			15	150
1,040 16 150	1,040			16	150

Line-up indoor



Selection guide

Cassette







Feature	WindFree™1-Way Cassette FCU	WindFree™ 4-Way Cassette FCU	360 Cassette FCU
Cooling capacity range (nominal)	2.6-4.15 kW	6.0-10.0 kW	6.0-10.0 kW
Heating capacity range (nominal)	2.9-5.0 kW	7.3–10.7 kW	7.3-10.7 kW
Fan motor type	BLDC	BLDC	BLDC
Drain Pump	Built-in	Built-in	Built-in
Filter	Microfibrous filter	Microfibrous filter	Microfibrous filter
3-Way Valve	Optional	Optional	Optional
2-pipe	•	•	•
4-pipe (optional)			
Installation	Horizontal	Horizontal	Horizontal

Concealed and Cased





Feature	Concealed FCU ¹	Cased FCU ¹
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

¹ Concealed FCU and Cased FCU are third party products

Nomenclature

Indoor units



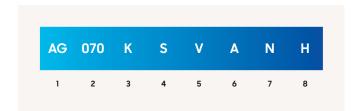
	Classification	AG	Chiller/Fan Coil Unit (FCU)	
	Capacity	x1/10 kW (3 digits)		
		К	2016	
		М	2017	
	Version	N	2018	
		Т	2020	
		Α	2021	
	Product Type	N	Indoor Unit	
5	Product Notation	1	WindFree™1-Way Cassette	
5	Product Notation	4	WindFree™ 4-Way Cassette, 360 Cassette	
		D	Deluxe	
6	6 Feature	Р	Premium	
	Voltage Rating	К	1Ф, 220~240 V, 50/60 Hz	
	Mode	Н	Heat Pump	

Indoor units (third party)



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

Outdoor units



	Classification	AG	Chiller (HVM Chiller)	
	Capacity	kW (3 digits)		
		К	2016	
	Version	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.



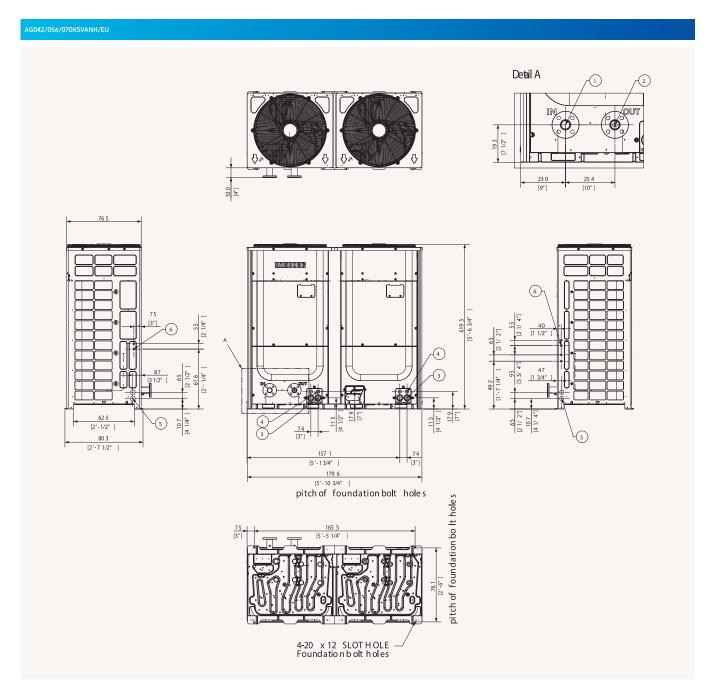




	Model			AG042KSVANH/EU	AG056KSVANH/EU	AG070KSVANH/EU
Power Supply			Φ, #, V, Hz	3Ф, 4, 380–415 V, 50/60 Hz	3Ф, 4, 380-415 V, 50/60 Hz	3Ф, 4, 380-415 V, 50/60 H
Performance	Capacity (Nominal)	Cooling	kW	42	56	65
		Heating	kW	42.0	56.0	69.5
ower	Power Input (Nominal)	Cooling	kW	12.35	18.67	26.00
		Heating	kW	11.83	17.50	24.39
	Current Input (Nominal)	Cooling	A	19.6	29.6	41.2
		Heating	A	18.8	27.8	38.7
	Current	MCA	Α	32	46	58
		MFA	Α	40	60	75
Efficiency	EER Nominal Cooling (pump input is not inc		W/W	3.4	3.0	2.5
incicicy	COP Nominal Heating (pump input is not in		W/W	3.55	3.20	2.85
	ESEER (Pump input is not included)	ctudeu/	W/W	5.7	5.4	5.0
an			-	Axial Fan	Axial Fan	Axial Fan
all	Type Number of Fans		-	Axidi Fdii	AXIdi FdII	Axidi Fdii
	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
an Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	630 x 2	630 x 2	630 x 2
Vater Side Heat Exchanger	Туре		-	Brazing Plate	Brazing Plate	Brazing Plate
Exchanger	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		-)A(Fluorinated greenhouse gas, GWP=2	.,088)
	Factory Charging		kg/tCO₂e	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
emperature 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	25.0~55.0	93~400
Range			-	294	392	490
Operating A	Minimum Water Storage in the System		L °C			
Operating Ambient Temperature Range	Cooling			-15.0~48.0	-15.0~48.0	-15.0~48.0
	Heating		°C	-25.0~43.0	-25.0~43.0	-25.0~43.0

Touch Centralised Controller PIM Module (Pulse Interface Module Module Controller DMS2.5 BACnet Gateway On/Off controller LonWorks Gateway MCM-A300N MIM-B14 MCM-A00N MIM-D01AN MIM-B17BN MCM-A202DN MIM-B16N MIM-B18BN

HVM Chiller



NO	Name	Description
1	Inlet water flange	15/20 HP 40A Din Flange, 25 HP: 50A Din Flange
2	Outlet water flange	15/20 HP 40A Din Flange, 25 HP: 50A Din Flange
3	Power wiring conduits	Knock-out hole (front)
1	Communication wiring conduits	Knock-out hole (front)
5	Power wiring conduits	Knock-out hole (side)
ذ	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.
- Can be controlled by Smartphone via Wi-Fi Kit.





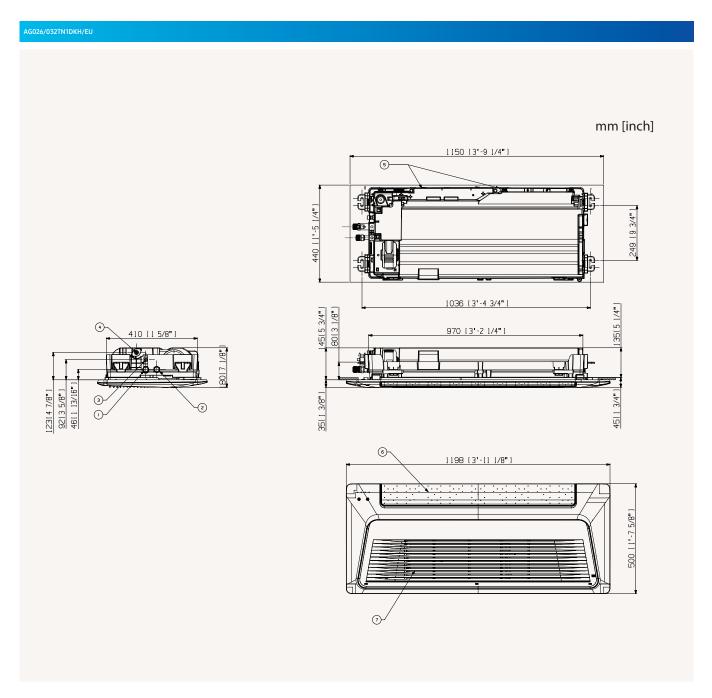


	Model		AG026TN1DKH/EU	AG032TN1DKH/EU	AG042TN1DKH/EU
Power Supply		Φ, V, Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 H;
Mode		-	HP	HP	HP
Performance	Capacity (Nominal) Cooling	kW	2.60	3.00	4.20
	Heating	kW	2.90	3.40	5.00
Power	Power Input (Nominal) Cooling	W	27	35	55
	Heating	W	27	35	55
	Current Input (Nominal) Cooling	А	0.14	0.19	0.29
	Heating	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/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
Water	Water Flow Rate Cooling	l/min	7.5	9.6	11.9
	Water Flow Rate Heating	l/min	8.4	9.7	14.4
	Pressure Drop Cooling	kPa	23.0	34.5	45.0
	Pressure Drop Heating	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 Cooling	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 Type	-	Built-in	Built-in	Built-in
Accessories	Max. Lif Displace	ting Height/ mm/(cc/ ement min)	750/400	750/400	750/400
	3-Way Valve Kit (optional)	-	ACL-A60V3	ACL-A60V3	ACL-A60V3
	Filter	-			

			Accessories			
and the same			器		880 - 440 0 - 4 0 0 - 5 0 1 - 5 0	- 4 ;
Panel WindFree™ (optional)	Panel WindFree™ (optional)	FCU Interface Module	Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller
PC1NWFMBN	PC1BWFMBN	MIM-F10N	AR-EH03E	MWR-SH00N	MWR-SH11N	MWR-WG00*N

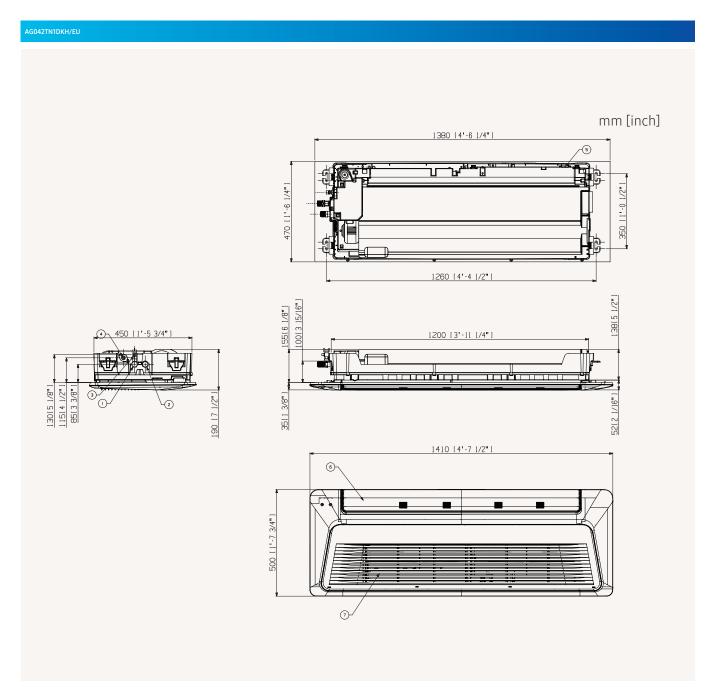
Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications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

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	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	

WindFree™ 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.

- Can be controlled by Smartphone via Wi-Fi Kit.
- Available in WindFree™ function.







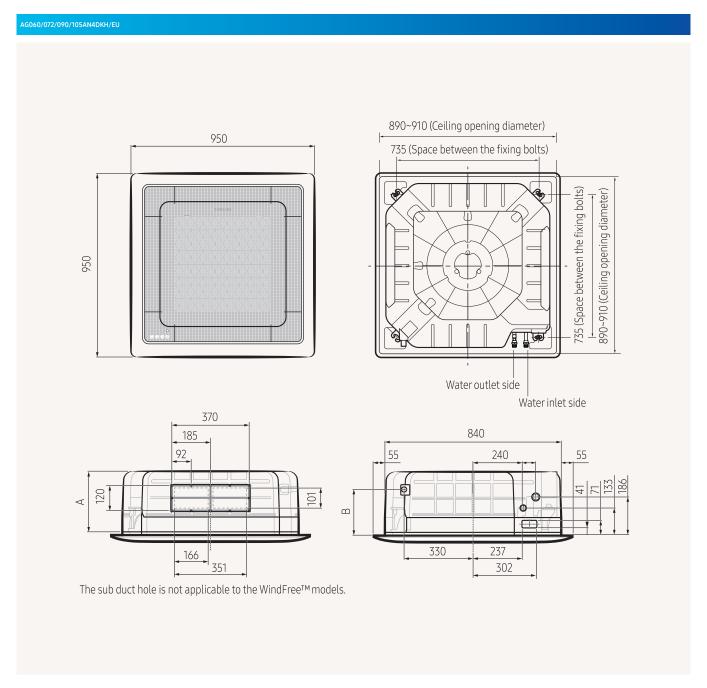


	Model			AG060AN4DKH/EU	AG072AN4DKH/EU	AG090AN4DKH/EU	AG105AN4DKH/EU
Power Supply			Ф, V, Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz	1Ф, 220~240 V, 50/60 Hz
Mode			-	HP	HP	HP	HP
Performance	Capacity (Nominal)	Cooling	kW	6.0	7.2	9.0	10.0
		Heating	kW	7.3	8.5	10.0	10.7
Power		Cooling	W	50	73	82	99
		Heating	W	50	73	82	99
		Cooling	A	0.37	0.50	0.58	0.79
		Heating	A	0.37	0.50	0.58	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		-	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	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
		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	41/36/30	42/39/36	45/41/37
	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		-	PC4NUFMAN	PC4NUFMAN	PPC4NUFMAN	PC4NUFMAN
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							
		918	211	88) - 6 a c c c c c c c c c c c c c c c c c c	n (
Panel WindFree™	FCU Interface Module	Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller		
PC4NUFMAN	MIM-F10N	AR-EH03E	MWR-SH00N	MWR-SH11N	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.

WindFree™ 4-Way Cassette FCU



Ca	ategory	Туре А	Type B	
Model		AG060*N4DKH*	AG090*N4DKH*	
		AG072*N4DKH*	AG105*N4DKH*	
A	(mm)	204	246	
В	(mm)	196	222	
Connection port	(mm)	PF 3/4" Male		
Flexible hose connection port	(mm)	VP25 (outer diameter: Ø32, inner diameter: Ø25)		

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). A front panel is mandatory and can be selected from one of the 4 front panels mentioned in the accessories.
- Can be controlled by Smartphone via Wi-Fi Kit.
- 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	Power Input (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	ound 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



















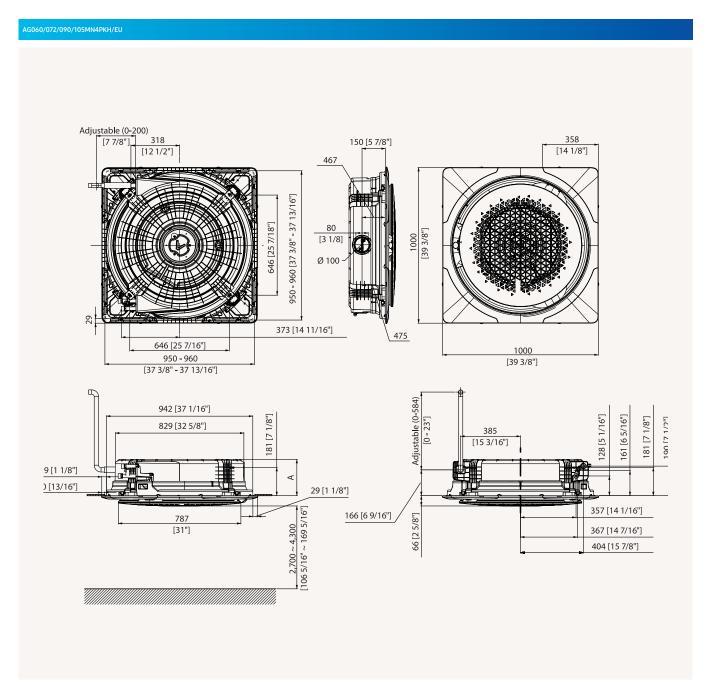




Panel (Mandatory)	Panel (Mandatory)	Panel (Mandatory)	Panel (Mandatory)	FCU Interface Module	Wireless Remote Controller	Touch Controller	Wired Remote Controller	Simple Type Controller	Motion Detect Sensor (Optional)
PC4NBDMAN	PC4NBNMAN	PC4NUDMAN	PC4NUNMAN	MIM-F10N	AR-EH03E	MWR-SH11N	MWR-WG00*N	MWR-SH00N	MCR-SME

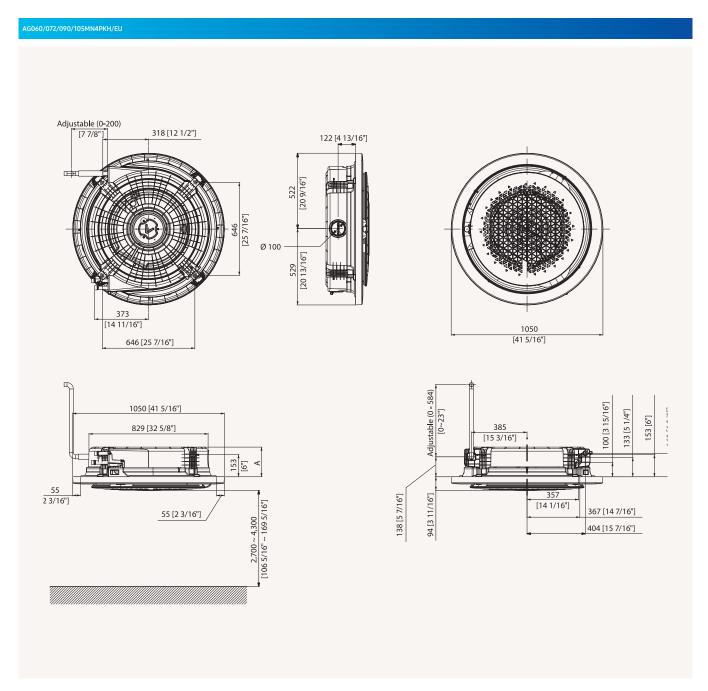
Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications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

360 Cassette FCU



Pos.	A Type	В Туре	
Model		AG072MN4PKH/EU	
	AG060MN4PKH/EU	AG090MN4PKH/EU	
		AG105MN4PKH/EU	
A	233 [9 3/16]	317 [121/2]	
Pipe connection	PF 3/4 Male		
Drain pipe connection	VP25 (OD 32, ID 25)		

360 Cassette FCU



Pos.	АТуре	ВТуре	
Model		AG072MN4PKH/EU	
	AG060MN4PKH/EU	AG090MN4PKH/EU	
		AG105MN4PKH/EU	
Α	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
Power Supply			Φ, 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
(No	(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 Inpu	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
-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	Type	11/19/12	-	3-step AC	3-step AC	3-step AC
an Motor			W	53/36/24	56/43/29	90/50/40
Water	Output x n Water Flow Rate	Cooling	l/min	5.6	8.4	12.4
water	water Flow Rate	Cooling				
	Pressure Drop	Heating	l/min	6.2	8.4	12.4
		Cooling	kPa		24	35
		Heating	kPa	20	24	35
Piping Connections	Liquid Pipe (IN)	Туре	-	Female	Female	Female
		Dimension	ø, mm (inch)	1/2	1/2	1/2
	Liquid Pipe (OUT)	Туре	-	Female	Female	Female
		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	18.0	23.0	27.0
	Net Dimensions (W×H×D)	mm	725 x 224 x 535	935 x 224 x 535	1,145 x 224 x 535
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	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		
	SAMSUNO	000 mm	* 151 E	
FCU Interface Module	FCU Kit	Touch Controller	Wired Remote Controller	Simple Type Controller
MIM-F10N	MIM-F00N	MWR-SH11N	MWR-WG00*N	MWR-SH00N

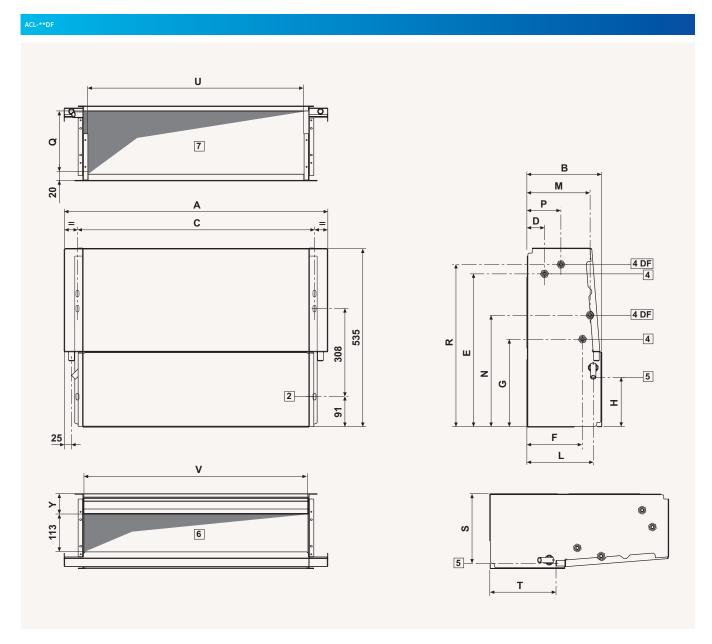
Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications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





ACL-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			
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		

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	T	Υ
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.
- Auxiliary 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
(No	(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 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	Α	0.26	0.28	0.45
	(Nominal)	Heating	Α	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 far
	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
		Heating	l/min	6.2	8.4	12.4
	Pressure Drop	Cooling	kPa	17	24	35
		Heating	kPa	20	24	35
Piping Connections	Liquid Pipe (IN)	Туре	-	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 (W x H x D)	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	an Vertical	optional	ACL-ADV	ACL-ADV	ACL-ADV
	Auxiliary Drain Pa	an Horizontal	optional	ACL-ADH	ACL-ADH	ACL-ADH
	Filter		-	Polypropylene washable	Polypropylene washable	Polypropylene washable

		Accessories		
	SAMSUNG	980 mm	* 127 E	101 TO 10
FCU Interface Module	FCU Kit	Touch Controller	Wired Remote Controller	Simple Type Controller
MIM-F10N	MIM-F00N	MWR-SH11N	MWR-WG00*N	MWR-SH00N

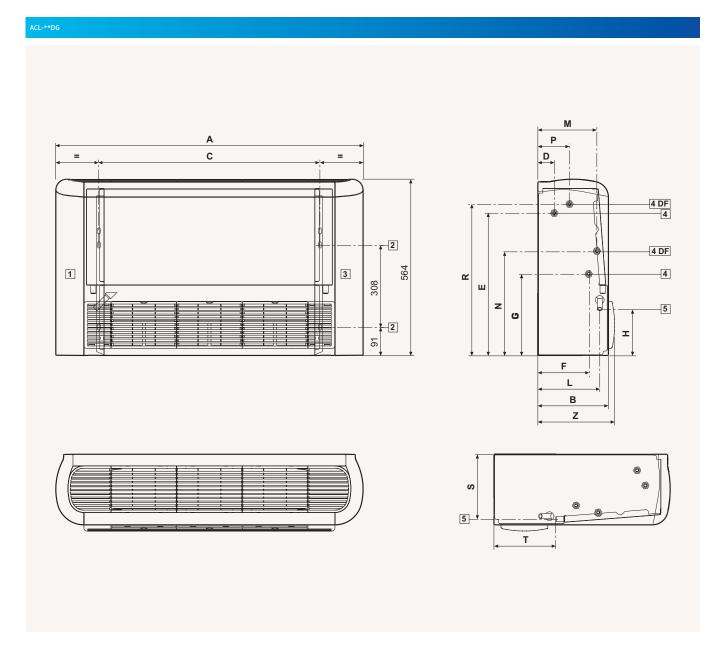
Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications 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		

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	A	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
			-					



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.



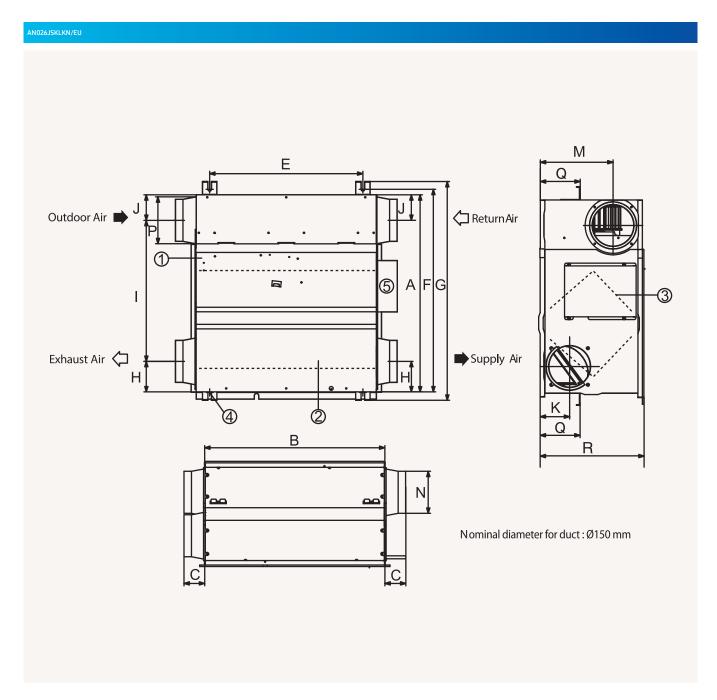
		Model			AN026JSKLKN/EU	AN035JSKLKN/EU	AN050JSKLKN/EU	AN080JSKLKN/EU	AN100JSKLKN/EU
Power Supply				Ф, #, V, Hz	1Ф, 2, 220-240 V, 50/60 Hz	1Ф, 2, 220–240 V, 50/60 Hz			
Performance	Air Volume			m³/h	260	350	500	800	1,000
	Temperature	Cooling	Turbo/High/Low	%	70/70/74	70/70/74	70/70/74	70/70/74	70/70/74
	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 F	Pressure	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)	49	50	53	54	55
Field Wiring	Power Source W	ire		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/I	Exhaust/Outsid	le Duct Flange (ø)	mm	150	200	200	250	250
Air Filter				-	Pre filter				

	Acces	sories	
	2.1.00 2.1.00 3.1.00	* (4.3)	
Differential pressure switch ²	ERV Wired Remote Controller	Wired Remote Controller	CO₂ Sensor
MOS-P1050	MWR-VH12N	MWR-WG00*N	MOS-C1

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.

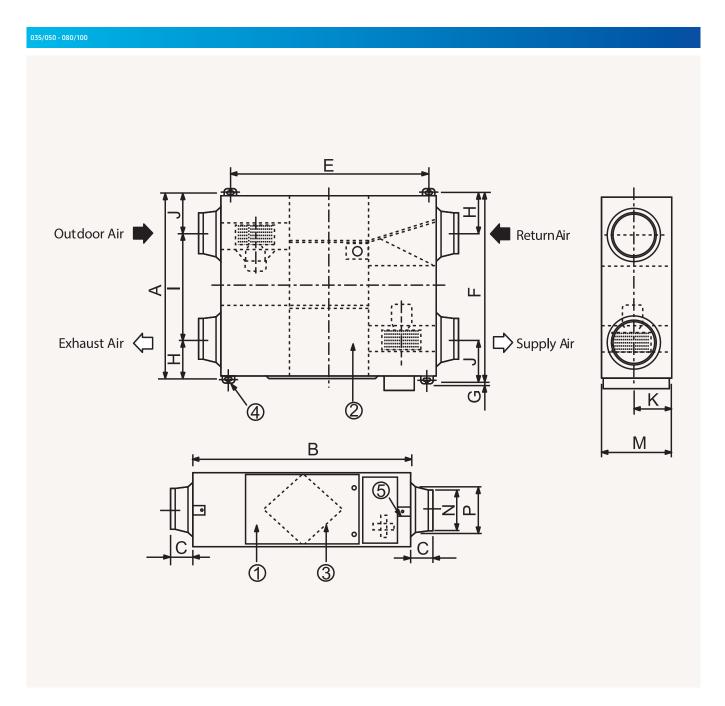
ERV



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

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
080/100	250

Model	А	В	С	E	F	G	н	1	J	К	М	N	Р	Q	R
					Length	(mm)					Diamet	er (mm)		Length (mm)	
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		



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.



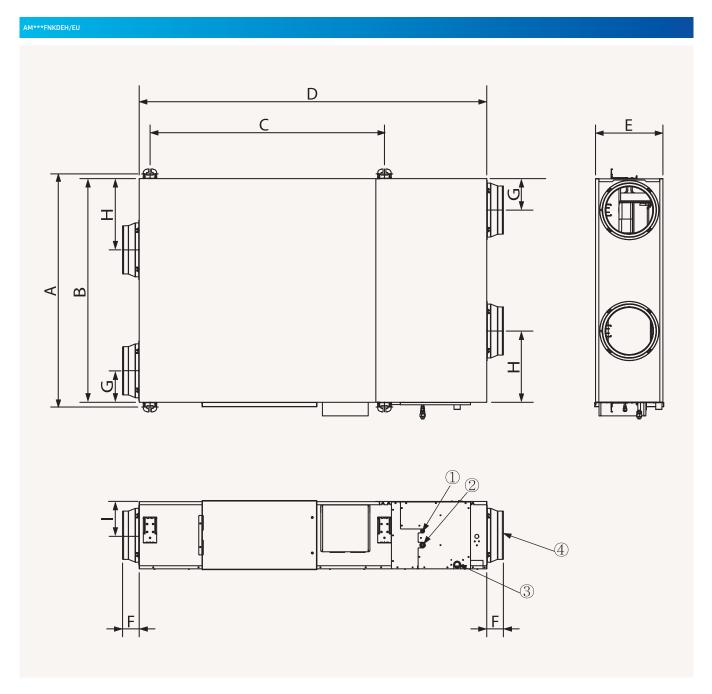


		Model			AM050FNKDEH/EU	AM100FNKDEH/EU	
Power Supply				Φ, #, V, Hz	1Ф, 2, 220~240 V, 50 Hz	1Ф, 2, 220~240 V, 50 Hz	
Performance	Temp. Exchange	Cooling	Turbo/High/Low	%	70/70/74	70/70/74	
	Efficiency	Heating	Turbo/High/Low	%	75/75/79	75/75/79	
	Effective Enthalpy	Cooling	Turbo/High/Low	%	60/60/66	62/62/68	
	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 Pressure		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	Α	1.7/1.0/0.6	3.7/2.4/1.6	
Piping Connections	Liquid Pipe			ø, mm	6.35	6.35	
				ø, inch	1/4	1/4	
	Gas Pipe			ø, mm	12.70	12.70	
				ø, inch	1/2	1/2	
	Drain Pipe			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")	
	Water Supply			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 green	nhouse gas, GWP=2,088)	
	Control Method			-	EEV	EEV	
Sound	Sound Pressure ¹		Turbo/High/Low	dB(A)	36/32/28	36/33/31	
	Sound Power			dB(A)	67	67	
Dimensions	Net Weight			kg	61.0	90.0	
	Net Dimensions (W x H	H x D)		mm	1,553 x 270 x 1,000	1,763 x 340 x 1,135	
	Supply/Return/Exhau	st/Outside Duc	t Flange (ø)	mm	200	250	
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 les	
	Return Air			-	0~40 °C DB, 80 % RH or less	0~40 °C DB, 80 % RH or less	
Air Filter				-	Pre filter	Pre filter	

	Accessories	
	n: (**)	
Differential pressure switch ²	Wired Remote Controller	CO ₂ Sensor
MOS-P1050	MWR-WG00*N	MOS-C1

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.

ERV Plus for DVM S



NO	Name	Desci	iption						
		AM050FNKDEH	AM100FNKDEH						
1	Liquid 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	А	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% outdoor 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.





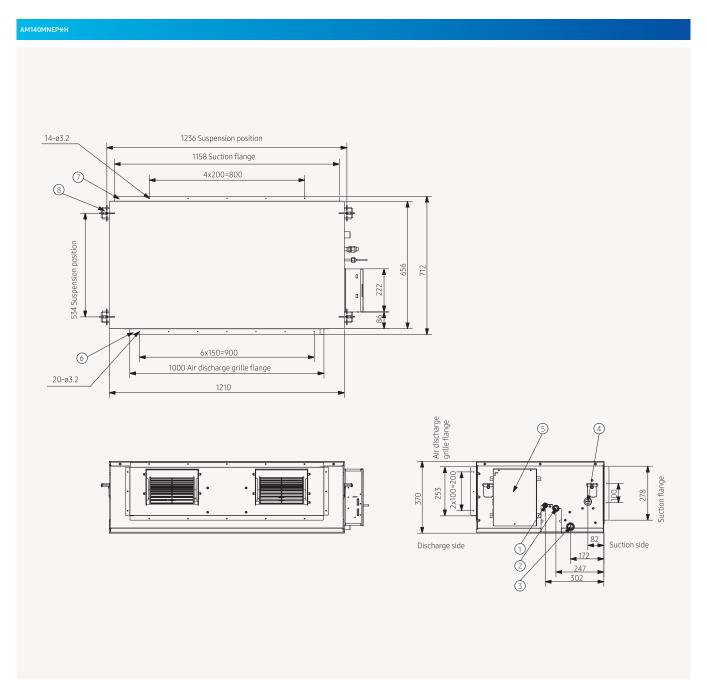


Model				AM140MNEPEH/EU	AM220MNEPEH/EU	AM280MNEPEH/EU
Power Supply			Φ, #, V, Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz
Performance	Capacity (Nominal) Cooling	ıg	kW	14.0	22.4	28.0
	Heatin	ng	kW	8.9	13.9	17.4
Power	Power Input (Nominal) Cooling	ıg	W	300	450	600
	Heatin	ng	W	300	450	600
	Current Input (Nominal) Cooling	ıg	Α	2.2	3.5	4.6
	Heatin	ng	Α	2.2	3.5	4.6
leat Exchanger	Туре		-	Fin & tube	Fin & tube	Fin & tube
	Material		Fin	Al	Al	Al
			Tube	Cu	Cu	Cu
an	Motor Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Output	t x n	W	183 x 1	630 x 1	630 x 1
	Numbe	er 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/St	td/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
iping 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)
ield Wiring	Transmission Cable Min.		mm²	0.75	0.75	0.75
efrigerant	Туре		-	R410A	(Fluorinated greenhouse gas, GWP=2,	088)
	Control Method		-	EEV (INCLUDED)	EEV (INCLUDED)	EEV (INCLUDED)
loise Level	Sound Pressure ¹ H/M/L		dB(A)	42	46	47
	Sound Power Cooling	ıg	dB(A)	65	66	69
imensions	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
Additional	Drain Pump Drain F	Pump	-	MDP-M075SGU2D	MDP-G075SP	MDP-G075SP
Accessories	Max. Li	.ifting Height/ icement	mm / litres/h	750/24	750/24	750/24
	Air Filter		-	Pre filter	Pre filter	Pre filter

		Accessories		
5 min	380 - 460 12.5 - 460 12.5 - 50 13.5 - 50	*: (\$\dot{\dot}_{\dot})	-	
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit
AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)

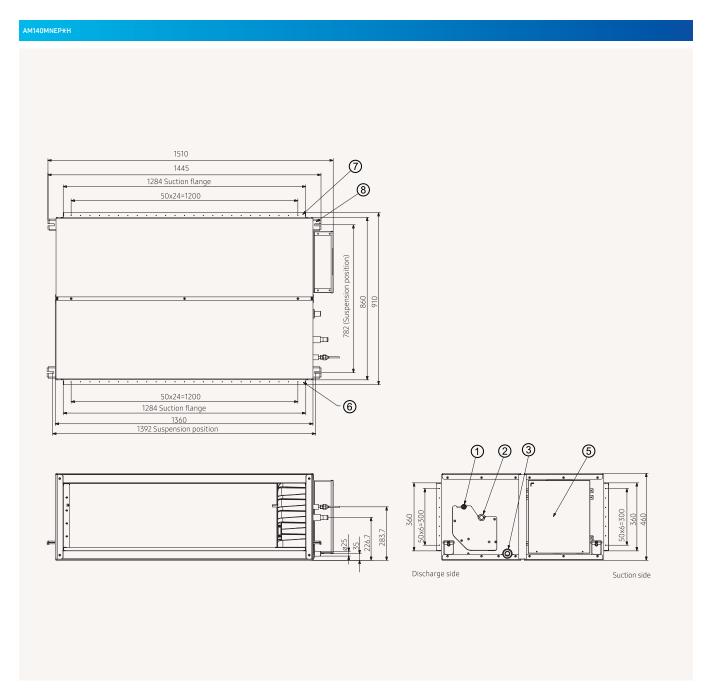
¹ Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

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

OAP Duct for DVM S



NO	Name	Description
1	Diameter of liquid pipe	ø9.52
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5	Power supply/Communication wiring conduit	
6	Air discharge grille flange	
7	Suction flange	
8	Hook	ø9.52 or M10



Controls







Line-up

	Product	Model	lmage	Matchable Products
Individual Control System	Wireless Remote Controller	AR-EH03E	9 + 3 3 × 5	FJM, CAC, DVM, FCU *only for FCU1-Way/4-Way Cassette
	Wireless Remote Controller	AR-KH03E		CAC, DVM, FCU *only for 360 Cassette
	Wired Remote Controller	MWR-WG00JN MWR-WG00KN	0 () 0	FJM, CAC, DVM, ERV, FCU
		MWR-WW00N MWR-WW10N MWR-WW10JN MWR-WW10KN	0 (m) b	DVM *only for Hydro unit
	Simple Type Controller	MWR-SH00N		CAC, DVM, FCU
	Touch Type Controller	MWR-SH11N	850 mm = 1 8 0 mm = 1 0 mm = 1 1 mm = 1	CAC, DVM, FCU (with WindFree™ function)
	ERV Wired Remote Controller	MWR-VH12N	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	ERV
	Wireless Receiver Kit	MRK-A10N	•	CAC, DVM *only for duct models
Centralised Control System	ON/OFF Controller	MCM-A202DN	SAMENG, O C	FJM, CAC, DVM, ERV Plus, HVM Chiller
	Touch Centralised Controller	MCM-A300N	/ Jennes	FJM, CAC, DVM, ERV Plus, HVM Chiller
	Wi-Fi Kit	MIM-H04EN	-	All (except HVM Chiller & 3rd party FCU)
	Module Controller	MCM-A00N		HVM Chiller

	Product	Model	lmage	Matchable Products
Gateway System	BACnet Gateway	MIM-B17BN	the second secon	FJM, CAC, DVM, ERV Plus, HVM Chiller
	LonWorks Gateway	MIM-B18BN	The state of the s	FJM, CAC, DVM, ERV Plus, HVM Chiller
	External Contact Interface Module	MIM-B14 (KEY TAG) MIM-B14A (LEAK DETECTION)	THE TOTAL OF THE T	RAC, FJM, CAC, DVM, HVM Chiller
	PIM (Pulse Interface Module)	MIM-B16N	20,000	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	SAMSUNG	Concealed & Cased FCU
	FCU Interface Module	MIM-F10N		FCU
Installation/ Test Run Solution	S-Converter	MIM-CO2N	5. h. h.	
Others	External Room Sensor	MRW-TA	Marine	FJM, CAC, DVM
	Operation Mode Selection Switch	MCM-C200	P	
	MTFC (Multi-Tenant Function Controller)	MCM-C210N		
Integrated Management System	DMS2.5	MIM-D01AN	the day has been deed	FJM, CAC, DVM, ERV Plus, HVM Chiller
	S-NET3	MST-P3P	CAPPACE TO THE STATE OF THE STA	
	b.loT Lite Software	MST-BL1A	ter and	

Compatibility guide

				Compatibility		
Classification	Product	Model	Image	DVM	HVM Chiller	FCU1W/4W/360
Individual Control System	Wireless Remote Controller	AR-EH03E		•		•
	Wireless Remote Controller (360 Cassette only)	AR-KH03E		•		•
	Wired Remote Controller	MWR-WG00JN MWR-WG00KN	* 95%	•		•
		MWR-WW00N MWR-WW10*N (DVM Hydro)		•		
	Simple Type Controller	MWR-SH00N		•		•
	Touch Controller	MWR-SH11N	565 40 10 x 10 4. x 4. x	•		•
	ERV Wired Remote Controller	MWR-VH12N	15-200 20-200 20-200			
	Wireless Receiver Kit	MRK-A10N	***	•		
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		•		
	b.IoT Lite Software	MST-BL1A	An application of	•		
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		•		
	ERV Interface Module Converter (RS485-NASA)	MIM-N10				
	FCU Interface Module	MIM-F00N MIM-F10N				•
Installation/ Test Run Solution	S-Converter	MIM-C02N	5 A	•	•	
Others	External Room Sensor	MRW-TA		•		
	Operation Mode Selection Switch	MIM-C200	-	•		
	MTFC (Multi-Tenant Function Controller)	MCM-210N		•		

			patibility		
FCU 3rd party	ERV	Com _l ERV Kit	ERV Plus	PAC	AHU Kit
reo sia party	LKV	LKV KIC	ERV Flus	PAC	Allokit
					•
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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
Control & 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	•			
Schedule	Weekly schedule	•			
	Simple ON/OFF timer		•	•	•
Convenient 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			•
	Purification mode	O ERV			
Energy saving	Temperature range limit	•	•	•	
	Automatic operation stop	•			
	Operation time limit	•			
	Energy consumption monitoring	•			
	Energy saving mode with ERV	•			
Maintenance	SD slot	•			



Features and Dimensional drawings

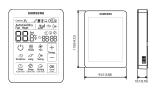
Wireless Remote Controller Operation ON/OFF control · Fan speed control · Operation temperature setting • WindFree™ Cooling function • Filter cleaning alarm reset • Air swing control • Simple ON/OFF timer · Indoor unit option code setting • Option/Setting selection Wireless Remote Controller AR-KH03E 360 Cassette airflow direction control • Operation ON/OFF control • Fan speed control • Operation temperature setting • Filter cleaning alarm reset • Simple ON/OFF timer · Indoor unit option code setting Wired Remote Controller MWR-WG00JN, MWR-WG00KN Air conditioner/ERV control 120.0 (4.72) • AC control: ON/OFF, operation mode, temperature setting, fan speed, airflow direction • ERV control: ON/OFF, operation mode, fan speed • AC/ERV error monitoring · Filter cleaning alert and reset alert time • Control a maximum of 16 "Indoor unit + ERV" in a group with a single wired controller **Energy saving operation** ок Upper/lower temperature limit setting • Automatically stops operating when not used for certain period of time as Weekly operation schedule setting • Weekly operating schedule (A/C only, ERV only, A/C+ERV) 0000 • Set desired AC operation mode, temperature and fan speed to operate based on a weekly schedule Apply schedule exception day • Energy consumption monitoring · Operation time limit User convenience function • Child lock • Different button permission levels Room temperature display Dual set point Built-in room temperature sensor • Real-time clock: displays current time and day (summer time support) • Multiple language support • Service mode support • Indoor unit cycle data monitoring • Indoor unit option code setting and monitoring • Indoor unit address setting and monitoring · SD card slot Available languages: • MWR-WG00JN: English, French, Spanish, Portuguese, Dutch, German • MWR-WG00KN: English, Italian, Greek, Czech, Slovak, Polish Simple Type Controller MWR-SH00N • Simplified wired remote controller • AC operation ON/OFF control Fan speed control Setting operation mode and temperature · Reset filter cleaning alert indicator

Adjust airflow directionOperation ON/OFF timer function

Touch Controller MWR-SH11N

- Bigger display: clear & bright backlight screen with big fonts
- WindFree™ button: control WindFree™ function with just one click
- $\bullet\,$ Room temperature monitor and room temperature display thanks to the built-in temperature sensor
- Icon/Function Lock: option of restricting icon/function on the display
- Sleep Mode: help users to sleep better by controlling temperature
- Outing Feature: keep room temperature above/below specific set value when the user is out of the room



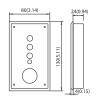


Wireless Receiver Kit MRK-A10N

- Concealed wireless signal receiver
- Filter cleaning sign
- Fan operation display
- Operation Timer setting display
 Operation ON/OFF button
- Operation On display LED (blue)
- Defrost operation display LED (red)





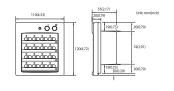


Centralised Control System

ON/OFF Controller

- Maximum 16-group controller (Max. 128 units) • Whole/Group/Individual indoor unit control (ON/OFF)
- Restriction on the use of wireless/wired remote controllers and external contact control
- Cooling and heating mode control
- Indoor unit error display

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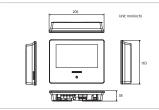


Touch Centralised Controller

MCM-A300N

- 7-inch touch LCD controller
- Controls a maximum of 128 indoor units
- Controls a maximum of 12 zones
- Schedule control, Indoor unit usage restriction, View indoor unit error history





Wi-Fi Kit 2.0

MIM-H04EN

- Enhanced Convenience
- Voice Control available through a smartphone with Bixby
- Connected home with affordable units in every home using SmartThings
- Welcome cooling and heating based on Geo-fencing
- Individual indoor unit control
- Personalized Climate Environment
- Preferred automation
- Multi-device experience interoperable with smart appliances
- Energy Usage Monitoring • Current and daily, weekly or monthly energy usage* of the outdoor unit
- Provides ease of installation • Easy set-up possible for up to 16 indoor units at once
- Net dimensions (W x H x D): 185 x 130 x 29mm





Module Controller

MCM-A00N

- DVM CHILLER ON/OFF control (Module/Group)
- Operation mode, water outlet temperature setting
- Optional operation setting
- Module/Group setting
- Weekly operation schedule setting





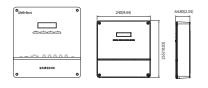
Gateway System

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.

- 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



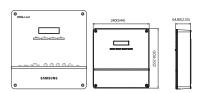


LonWorks Gateway MIM-B18BN

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.

- 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





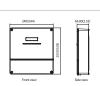
PIM (Pulse Interface Module) MIM-B16N

 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



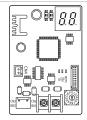




Interface Module MIM-N01

- 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 $% \left\{ 1,2,\ldots,n\right\}$ outdoor unit
- 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 Kits.
- Supports FCU Kit only





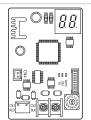


Interface Module (Converter RS485 to NASA) MIM-N10

- Communication interface module between new
- communication ERV 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 \leftarrow → New upper level controller communication







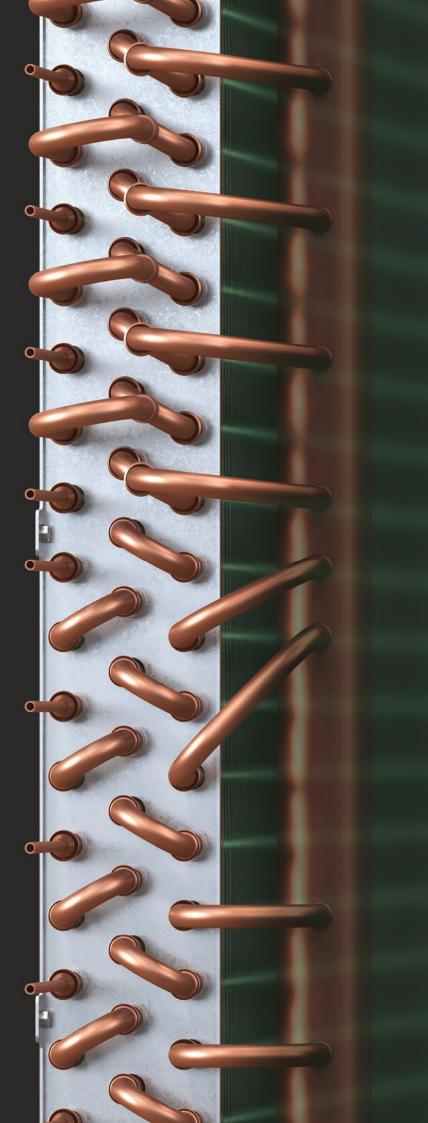
FCU Kit MIM-F00N

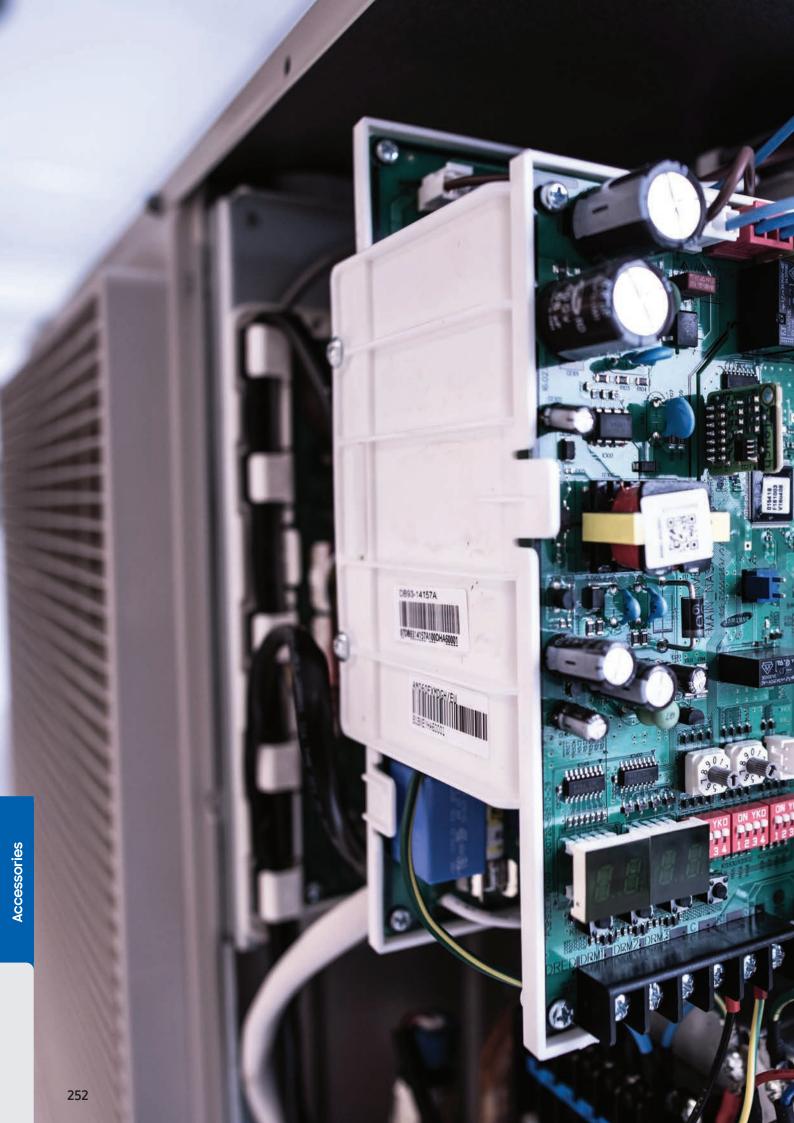
- For 3rdParty FCU
- Communication and control interfacing kit between 3rd party FCU and Samsung control system
- Possible to use wired remote controller
- Possible to use DMS 2.5, touch centralized controller
- Provides external contact input
- Outputs control signal for FCU fan/water valve
- Size: 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: NASA communication









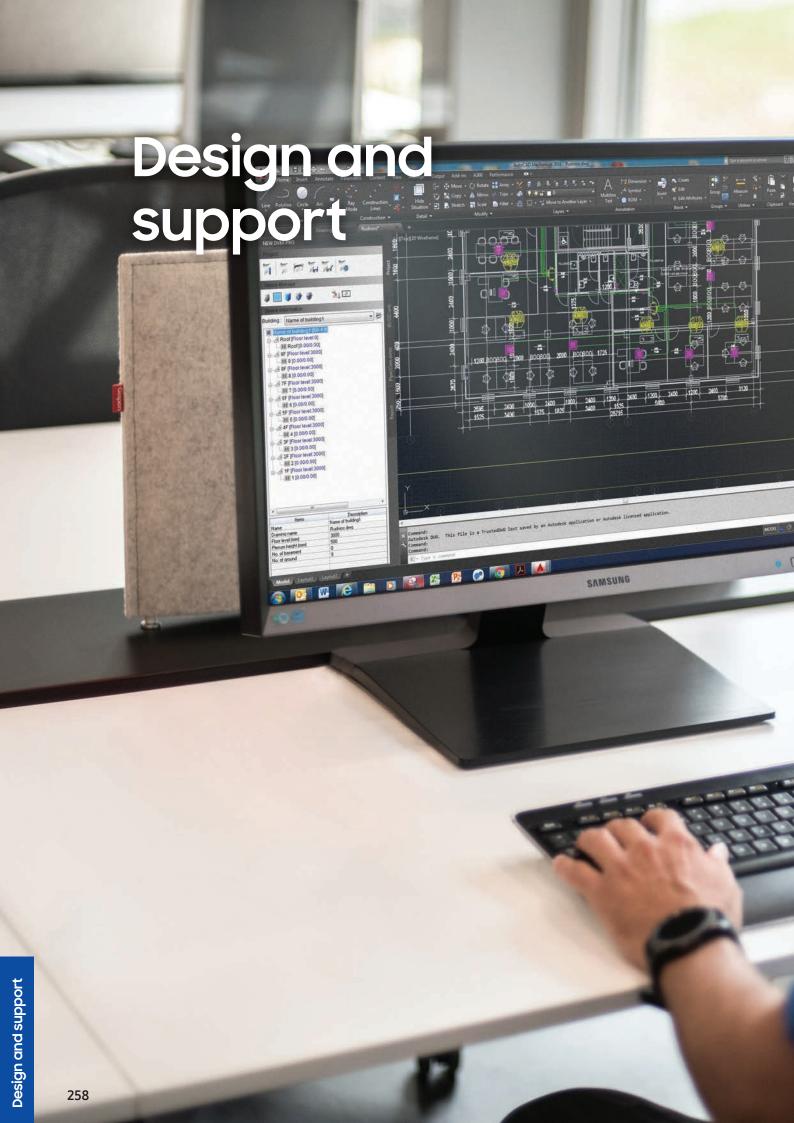
Line-up

Classification	Image	Model DVM S (New Communication Protocol)	Application
Drain Pump		MDP-N047SNC1D	HSP Duct (22.4/28.0 kW) Fresh Air Intake Duct (14.0 kW)
		MDP-M075SGU2D	OAP Duct for DVM S
		MDP-G075SP	Global Duct (External Type)
	Has .	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)
		MXD-K075AN	EEV + Control Kit (21.00~26.25 kW AHU)
		MXD-K100AN	EEV + Control Kit (28.00~35.00 kW AHU)
		MXD-A64K100E	AHU EEV Kit (10 HP)
	100 kilo (1	MCM-D201N	Control Kit (PBA, 10 HP-40 HP)
360 Cassette Front Panel		PC4NUDMAN	NASA, Square
		PC4NBDMAN	NASA, Square - Black
		PC4NUNMAN	NASA, Circle (exposed installation)
		PC4NBNMAN	NASA, Circle (exposed installation) - Black
WindFree™ 4-Way Cassette Front Panel		PC4NUFMAN	WindFree™ 4-Way 900 x 900 Cassette
		PC4SUFMAN	WindFree™ 4-Way 600 x 600 Cassette
WindFree™1-Way Cassette Front Panel	(police)	PC1MWFMAN	WindFree™ 1-Way Cassette (1.7~2.2 kW)
	(parties	PC1NWFMAN	WindFree™ 1-Way Cassette (2.8-3.6 kW)
	(polices	PC1BWFMAN	WindFree™ 1-Way Cassette (5.6-7.1 kW)
WindFree™ 1-Way Cassette FCU Front Panel Medium	(politica	PC1NWFMBN	WindFree™ 1-Way Cassette FCU (2.8~3.6 kW)
	(polices	PC1BWFMBN	WindFree™1-Way Cassette FCU (5.6-71 kW)
Air Purification Panel * For only CAC, DVM		PC6EUCMAN	360 Cassette
		PC4NUCEAN	WindFree™ 4-Way 900 x 900 Cassette
	- prints	PC1MWCMAN	WindFree™ 1-Way Cassette (1.7~2.2 kW)
	(politica	PC1NWCMAN	WindFree™ 1-Way Cassette (2.8–3.6 kW)
	- prints	PC1BWCMAN	WindFree™ 1-Way Cassette (5.6-7.1 kW)
Auto Elevation Panel * For only CAC, DVM		PC6EUXMAN	360 Cassette
		PC4NUXMAN	WindFree™ 4-Way 900 x 900 Cassette

Classification	lmage	Model DVM S	Application
		(New Communication Protocol)	
Motion Detect Sensor		MCR-SMC	WindFree™ 4-Way 600 x 600 Cassette
	****	MCR-SMD	WindFree™ 4-Way Cassette
		MCR-SME	360 Cassette with square panel
Y-joint		MXJ-YA1509M	15.0 kW and below
		MXJ-YA2512M	Over15.0 kW~40.0 kW and below
	3	MXJ-YA2812M	Over 40.0 kW~45.0 kW and below
	-	MXJ-YA2815M	Over 45.0 kW-70.3 kW and below
	7	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
Y-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)	- S	MXJ-TA3100M	135.2 kW and below
		MXJ-TA3800M	140.2 kW and over
Y-Joint (for MCU)	-	MXJ-YM1509M	Over 16.0 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		MXJ-HA2512M	45.0 kW and below (for 4 rooms)
	1111	MXJ-HA3115M	70.3 kW and below (for 8 rooms)
		MXJ-HA3819M	Over 70.3 kW-135.2 kW and below (for 8 rooms)
Heat Recovery Changer	interes of	MCU-R4NEK0N	
		MCU-S6NEK3N	
MCU	Picture N/A	MCU-S12NEK1N	12 ports, max 61.6 kW (-16 kW/port)
	Picture N/A	MCU-S8NEK1N	8 ports, max 61.6 kW (~16 kW/port)
	-20000 \$	MCU-S6NEK2N	6 ports, max 61.6 kW (-16 kW/port)
	- 1111	MCU-S4NEK3N	4 ports, max 61.6 kW (-16 kW/port)
	" #	MCU-S2NEK2N	2 ports, max 32.0 kW (~16 kW/port)
	1 1	MCU-S1NEK1N	1 ports, max 16.0 kW (-16 kW/port)

(New Communication Protocol) EEV Kit MXD-E24K132A	
EEV Kit MXD-E24K132A	
MXD-E24K200A 2 Indoor	
MXD-E32K200A	
MXD-E24K232A	
MXD-E24K300A	
MXD-E32K224A	
MXD-E32K300A	
MEV-E24SA	
MEV-E32SA 1 Indoor	
DRAIN HOSE MOK-200DA LTYPE SLIM1-WAY / 4-WAY	MINI
Differential Pressure Switch MOS-P1050 ERV (Plus)	
CO ₂ SENSOR 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 Auxiliary Drain Pan Vertic	al
ACL-ADH Auxiliary Drain Pan Horizon	ntal





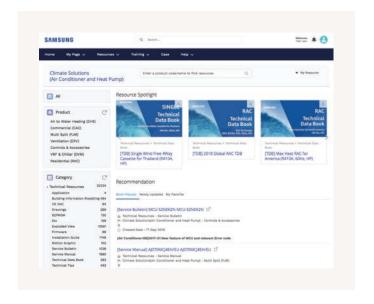


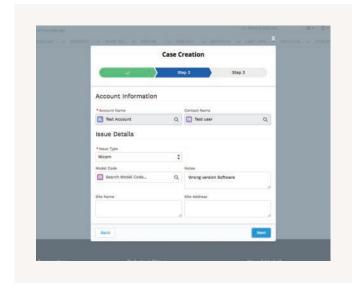
Samsung Climate Solutions Partner Portal

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 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, drawings and different kinds of manuals.





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 possible.

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

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 session.

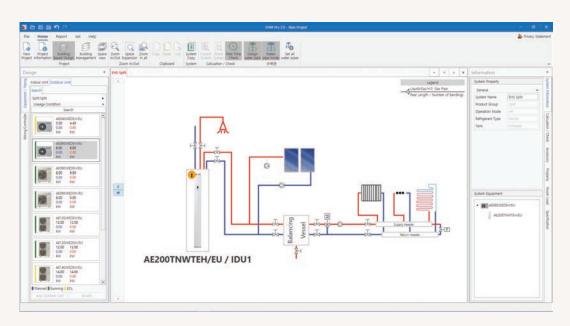
Samsung DVM Pro 2.0

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

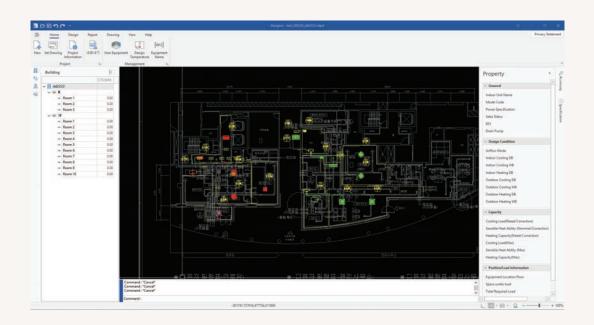
. User-friendly tool bar helps to guide intuitively

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 without using AutoCAD software.



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 without AutoCAD

New DVM Pro 2 CAD mode is able to load AutoCAD drawings (.dwg) without AutoCAD installed on user PC.

How to access



Register

Select

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



Download

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

Google Chrome is the recommended web browserfor using the Samsung DVM Pro 2.0 Portal.

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.

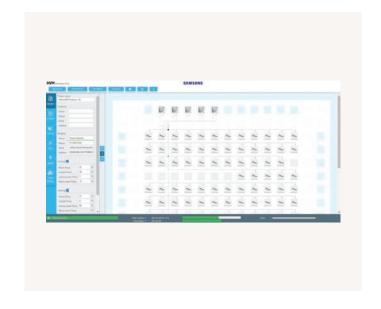
²⁶³

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

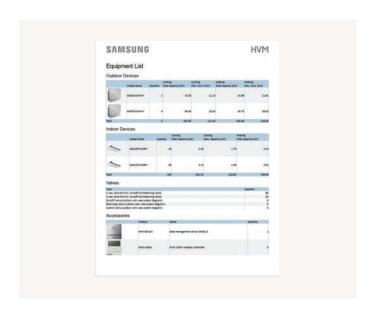
The drag and drop interface of the HVM Selection Tool enables you to configure the HVM system easily and quickly. Based on the configuration selected, the tool generates information such as total water flow and total system pressure drop, enabling you to select the appropriate water pump and piping.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





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



Design



Support

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.

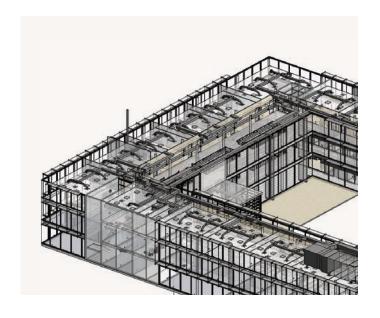
 $^{{}^{1}\}text{Google Chrome is the recommended web browser for using the Samsung Climate Solutions Partner Portal.}\\$

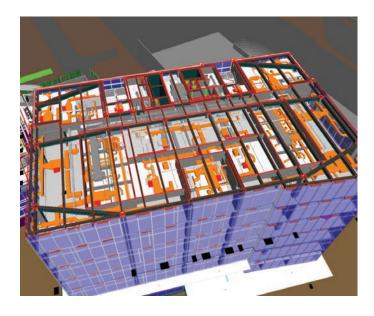
Samsung specialist design support

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.

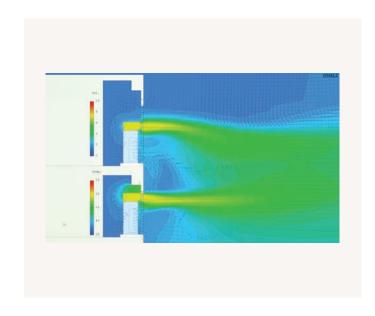
BIM support

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.

¹BRE (Building Research Establishment) is a leading, multidisciplinary building science centre based in the United Kingdom.



How to obtain support



BIM support

2

CFD analysis



BREEAM advice

To download Samsung BIM models, go to 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).

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.





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

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

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



Search

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



Register

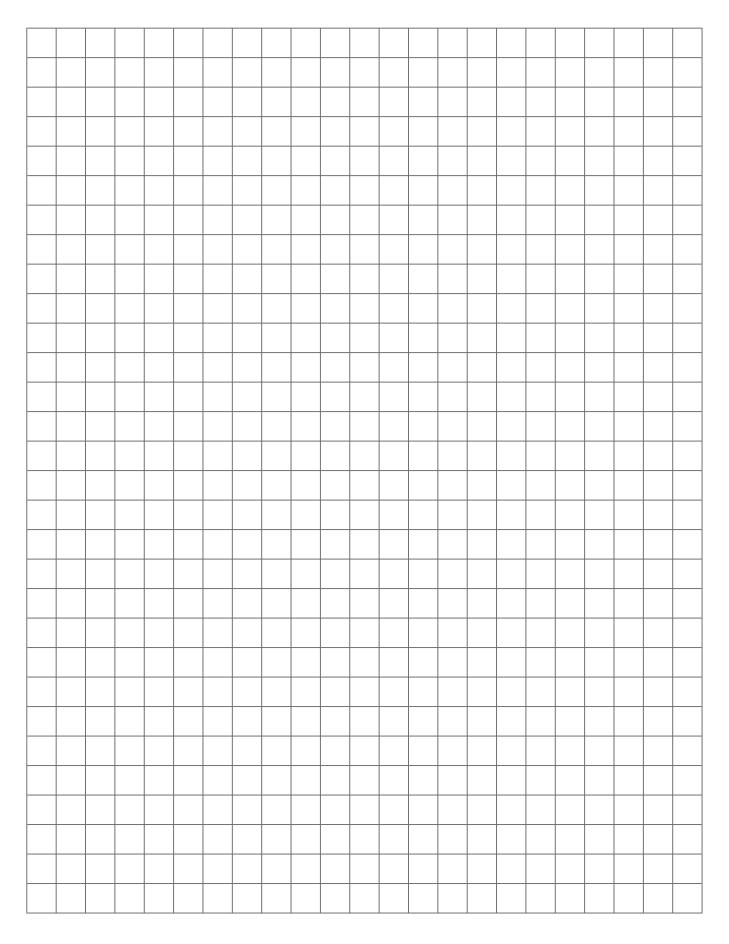
After identifying the training course you would like to attend, follow the registration process. Once you have registered successfully you will receive a confirmation e-mail.

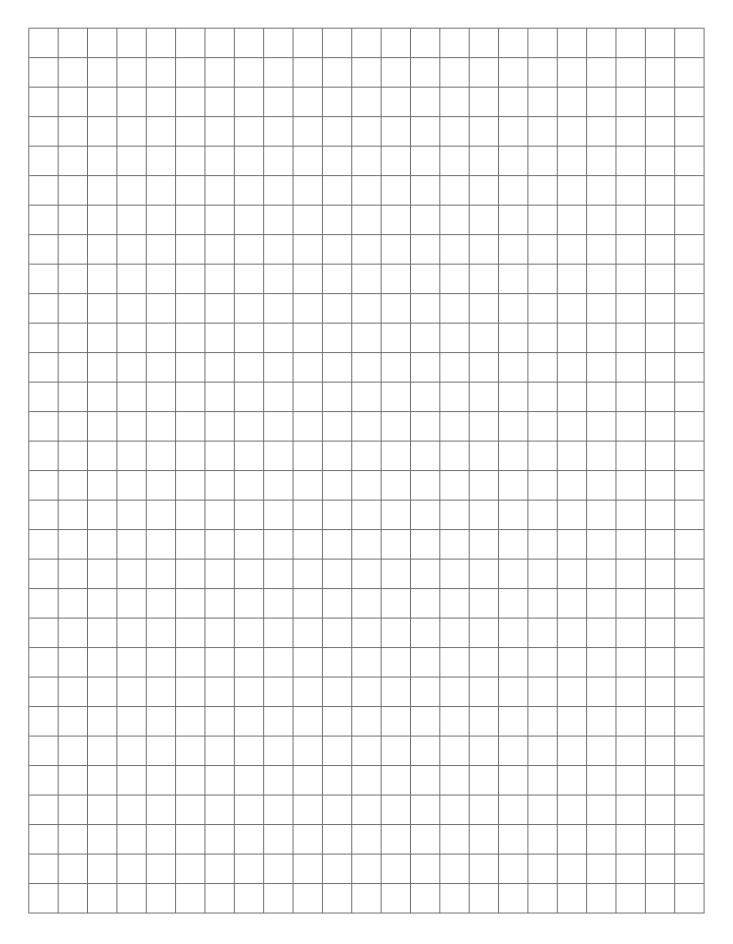


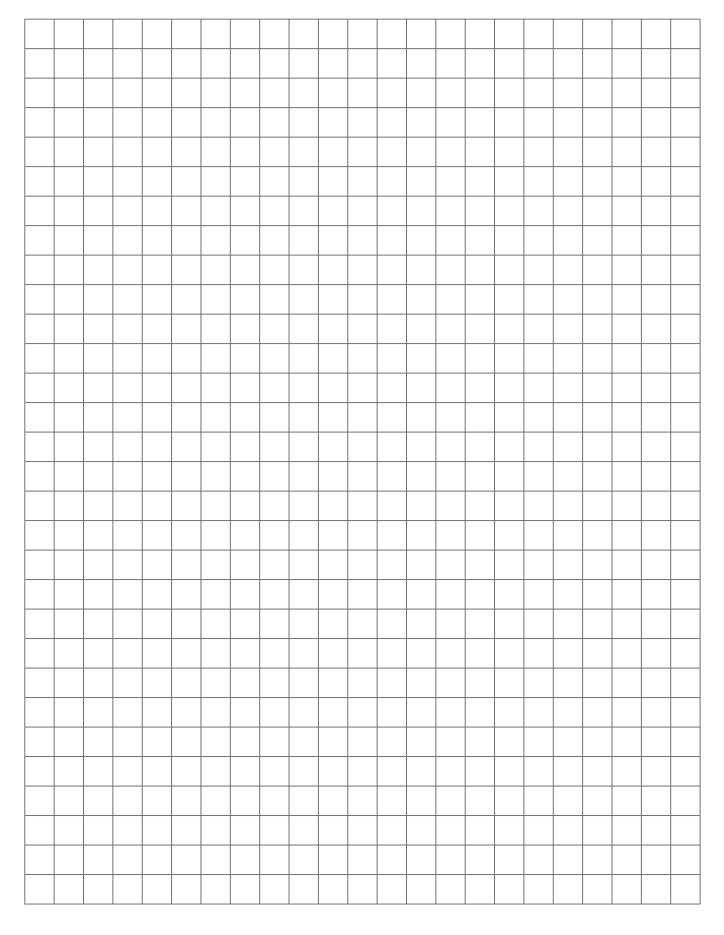
Get certified

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.

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







SAMSUNG



Create your perfect environment.

www.samsung.com/climate

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