SAMSUNG **Climate Solutions** Commercial Product Catalogue 2024

Highlights for 2024



NEW

Touch Centralized Controller TCC 2.0

Customizable to harmoniously blend into your space

Effortless Service

Service History

Intuitive Control

SmartThings Style UI

Efficient Management

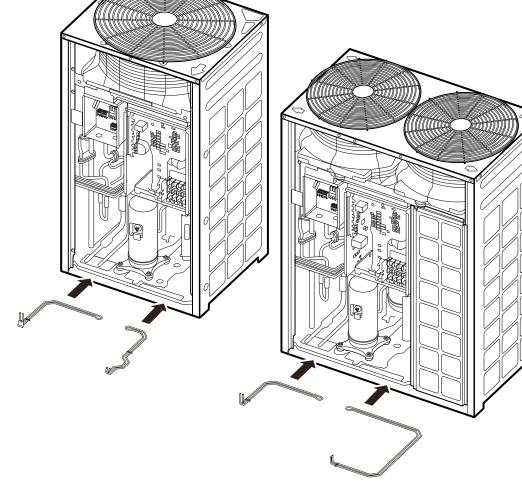
Dashboard on the Home Screen



NEW

Ceiling

- New model code replacement for 5.6kW & 7.1 kW
- Upgraded BLDC motor
- Included EEV
- Bigger chassis, better sound pressure for 7.1kW



NFW

Base heater Kits

Base heater kits are used to prevent ice formation and to promote water drainage after defrost cycles in extreme low ambient temperatures for DVM S Eco and DVM S2 outdoor units.



NEW

Packaged Floor Standing PAC

- New model code replacement for 28kW
- Sirocco fan driven by upgraded BLDC motor
- Auto external static pressure control
- Embedded single Wi-Fi kit helps to control via SmartPhone



b.loT Lite

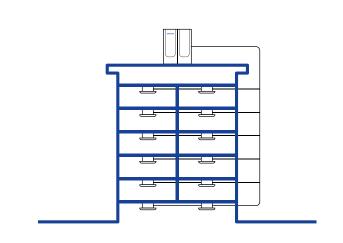
- Differentiated control screer
- Operation history management
- Convenient control authority setting
- Management of connected devices (open protocol support for 3rd party devices)
- Energy saving for air conditioning (embedded algorithm
- Energy use management



Product overview

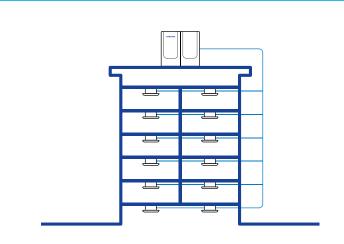
VRF (DVM)

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.



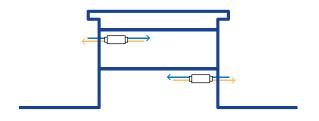
VRF Chiller (HVM)

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.



Available Samsung product range

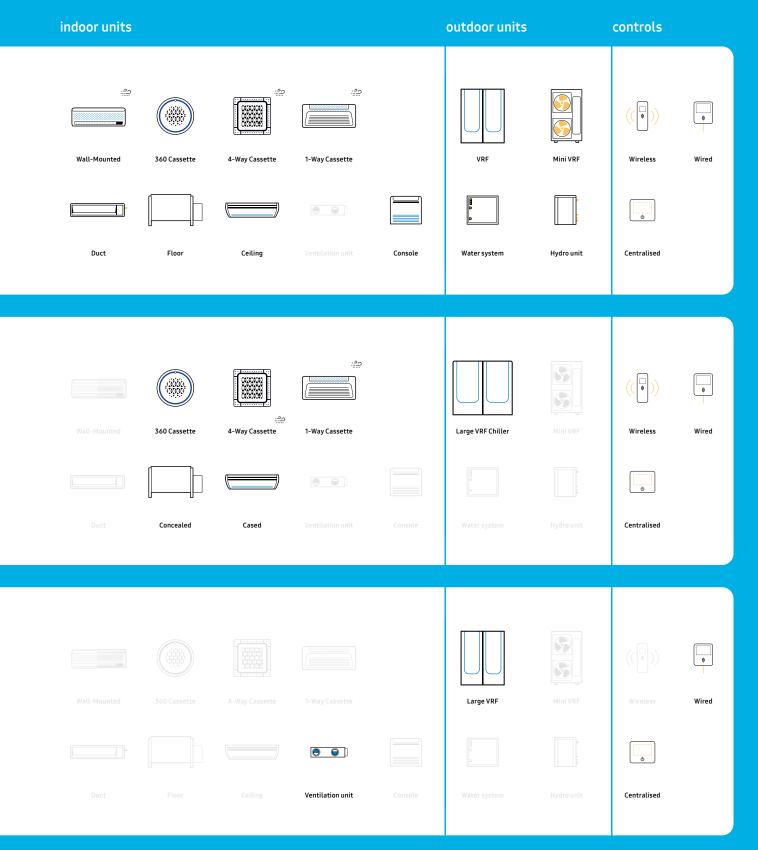


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MSP/HSP Duct S
Airzone
WindFree™ Deluxe UNIQUE
WindFree™ 4-Way Cassette UNIQUE
WindFree™ 1-Way Cassette
ERV (Plus)
Air Handling Unit (AHU) Kit
b.IoT Lite



VRF (DVM)

Line-up outdoor
Line-up indoor
Selection guide
Nomenclature
DVM S Eco Heat Pump
DVM S2 Essential Heat Pump (2-Pipe)
DVM S2 Standard Heat Pump (2-Pipe)
DVM S2 High Efficiency Heat Pump (2-Pipe)
DVM S2 High EER Heat Recovery
DVM S2 High EER Heat Recovery
DVM SWater
WindFreeTM 4-Way 600 x 600 Cassette
WindFreeTM 4-Way Cassette
UNIQUE

WindFree™ 4-Way Cassette UNIQUE
WindFree™ 1-Way Cassette UNIQUE
360 Cassette

LSP Duct
MSP Duct
NEW
HSP Duct
Console
Floor/Ceiling
NEW
Big Ceiling

Concealed Floor-Standing Concealed Floor-Standing High Static Packaged Floor-Standing NEW

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
Concealed FCU
Cased FCU
Cased FCU

228 Ventilation (ERV)

ERV ERV Plus for DVM S OAP Duct for DVM S

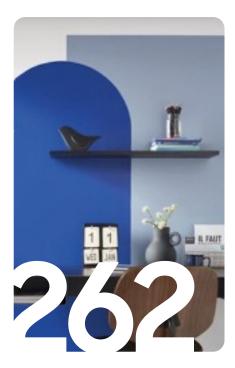


Controls

System Air Conditioner
Innovations in detail | TCC 2.0 NEW
Line-up
Compatibility guide
Selection guide
Features and dimensional drawings

256 Accessories

Line-up NEW



Design and support

Climate Solutions Partner Portal DVM Pro 2.0 HVM Selection Tool Specialist design support 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 help people find their flow

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.

We offer:



Ventilation



Hot water



Cooling



Heating

Services we provide to empower our partners:



Expert training



Project design



Technical support



Marketing platforms



Spare parts









Our flagship innovations that enrich people's lives

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. 2014

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



Our market-centric product ranges

| Home | Apartments | Hotel | Retail | Office | Education | Restaurant | |
|---------|-------------|--------------------|----------|--------|-----------|------------------|-------------|
| RAC FJM | RAC FJM DVM | | | | | | Residential |
| CAC FJM | CAC FJM DVM | CAC | | | | Light Commercial | |
| | | DVM HVM ERV DVM | | | | Commercial | |
| EHS | | | | | | | Heating |
| | | | Controls | | | | Controls |

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



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 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



Reference Project

Meadow, Herent

The challenge in this 68-apartment sized residential new development project was to find a central heating system that is sustainable, silent, performant and small in size due to limited space. Thanks to our partnership with Samsung we were able to provide our client a cascade construction of high efficiency outdoor units and low temperature hydro units. Now all apartments receive comfortable heating without inconveniences. The low sound pressure and the high available static pressure that allows channeling the outdoor units' air makes this a unique solution.



Jeroen Vercammen

Project manager at Belcotec

Application

Residential New

Samsung products installed







DVM S2 High efficiency outdoor units DVM Hydro Low Temperature BACnet













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

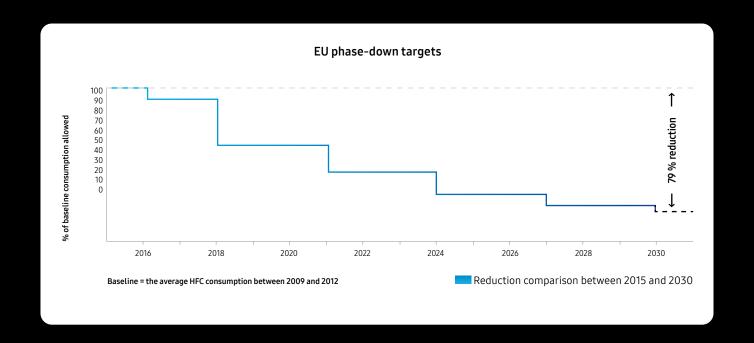
and include residential air to water heat pumps for space heating and hot water production respectively (< 400 kW). It is mandatory to provide energy labels for products with a capacity less than 70 kW. On 1 January 2018, LOT 21 came into force. LOT 21 covers commercial cooling and heating products with 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 CO₂ equivalent consumption of HFCs (hydrofluorocarbons). EU regulation 517/2014 prescribes a phasedown of HFCs, where the quantities of HFCs that are placed on the market are gradually reduced through the allocation of quotas by the European Commission. The phase-down targets are expressed in CO₂ equivalents (= kg x GWP – Global Warming Potential) and aim

to reduce HFC consumption by 79 % in 2030. For new installations of single split air conditioners with a refrigerant charge below 3 kg, the GWP limit is set at 750 starting in 2025. The regulation has been put into force to motivate the industry and its users to transition to refrigerants with a lower GWP. Samsung is doing their part to transition to lower GWP refrigerants such as R32 and will continue to invest in better alternatives for the environment.



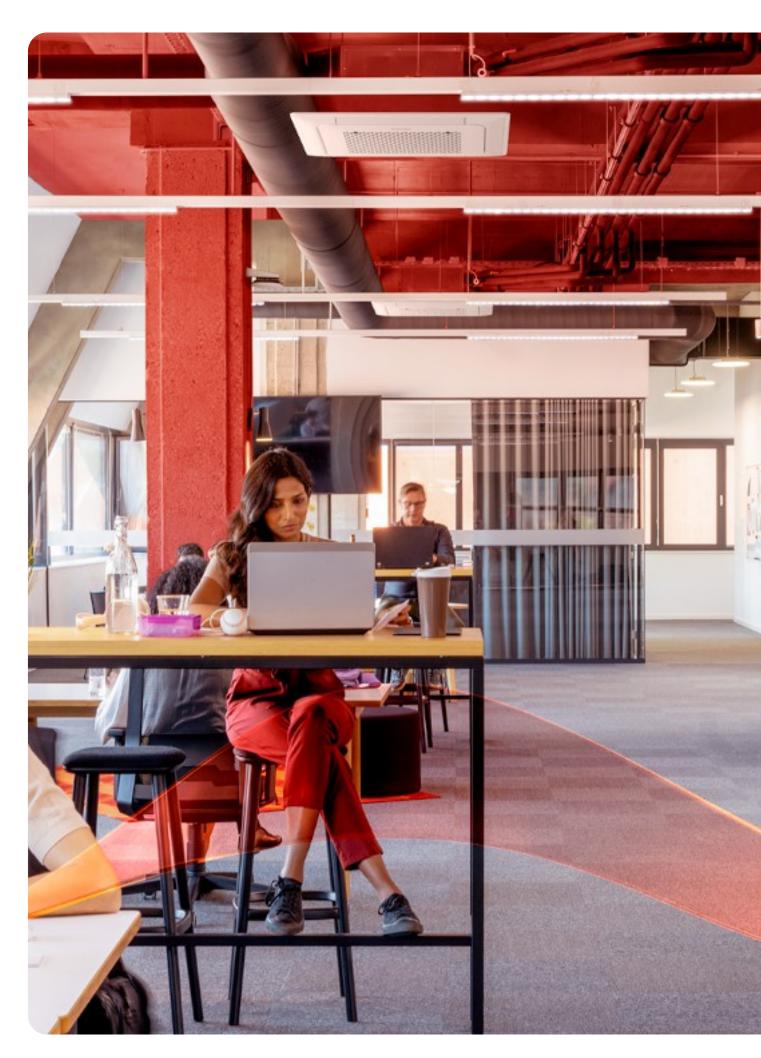
EN378 standard

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.

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

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

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 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



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

Higher Energy Efficiency

DVM S2

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







The 7th Generation of IGBT

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

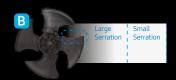




Enlarged Heat Exchanger

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.

- DVMS2 equipped with larger heat exchanger than conventional model AM100JXVAGH/E1. HX Length: 1,700 mm \rightarrow 1,910 mm. Platform Width: 880 \rightarrow 930 [mm]. DVMS2 equipped with larger heat exchanger than conventional model AM200KXVAGH/ET. HX Length: 2,100 mm \rightarrow 2,600 mm.

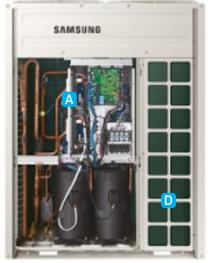


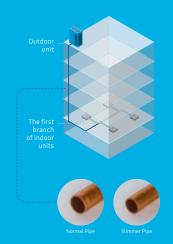
Multi-serration Fan

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 airflow¹. The unit uses a superior Samsung scroll compressor which makes the unit more energy efficient compared to the current DVM S range.

Multi serration fan adopted for small platform. Based on 12 HP models comparison.







Slimmer Liquid Line

(Optional Diameter Reduction)

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

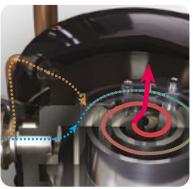
AFI (Advanced Flash Injection) Compressor™

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 130 rps), Company B circulates 14,080 cc/sec (= 88cc x 160 rps) and Company C circulates 12,320 cc/sec (= 88cc x 140 rps).

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.

Conventional

Available when one or more compressors is working on every unit in the whole system.







DVM S2

Available when any compressor is working in the whole system.

Improved >

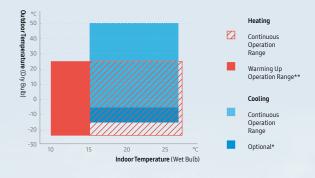


| | Emergency Operation | | |
|--------|---|------------------|--------|
| Exampl | Example Cases of Malfunction | | DVM S2 |
| | When there are 2 or more units in a system, and one of the two compressors on a unit is not working. | Yes | Yes |
| | When there are 2 or more units in a system, and one 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 |
| | 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**

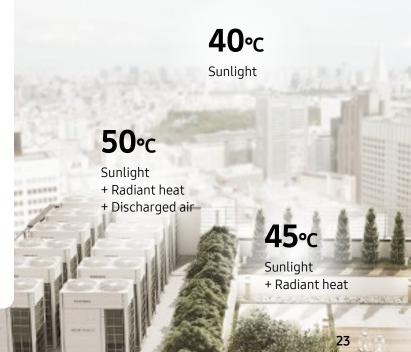
The DVM S2 operates in a wider range of weather conditions, delivering a more stable performance compared to the first generation of DVM S. It operates across a wide temperature spectrum. It can cool during a heat of up to 50 °C and provide warmth during freezing cold conditions of up to -25 °C, ensuring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

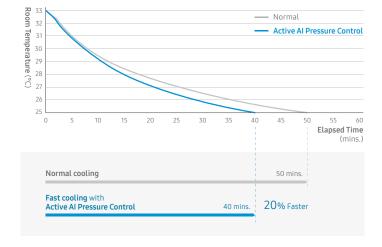


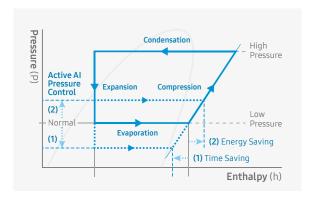
Active Al



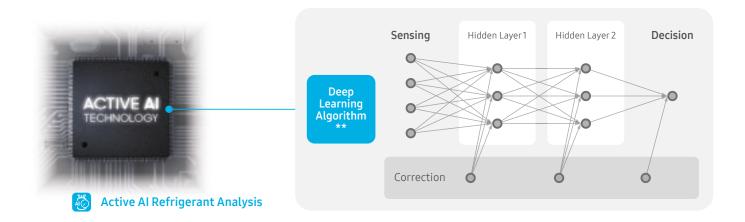
Optimal cooling by learning usage patterns

By learning usage patterns from recent cooling operations and the surrounding conditions, the DVM S2 proactively creates the optimal cooling environment to suit users' general requirements. For example: (1) If a user frequently lowers the room temperature when turning on the air conditioner, the Active Al Pressure Control recognizes this pattern. So, when the air conditioner is turned on again, it automatically lowers the pressure of the inflow refrigerant by up to 33% and cools up to 20% faster*. (2) However, if there's no need for fast cooling, it saves energy by adjusting the refrigerant pressure to be higher than normal.





^{*} 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 AM083NN4DBH1 and AM145NN4DBH1 indoor units with 25m of piping. The elapsed times were measured when the room temperature reached 25°C.

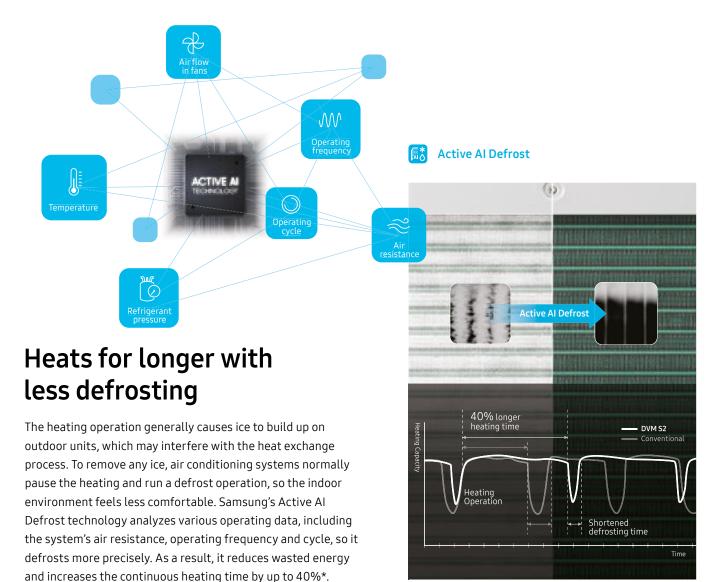


Maintains the optimal amount of refrigerant to ensure the best performance

Shortage of refrigerant hinders the outdoor unit's cooling and heating performance as well as its energy efficiency. And, if refrigerant leaks out, due to any error in installation, operation or maintenance, it also impacts global warming and may even cause the system to stop working. Using Deep

Learning technology*, the Active AI Refrigerant Analysis of the DVM S2 collects and analyzes various operational data in real time, and proactively alerts you with an error message if the amount of refrigerant is too low. So, an installer or a service engineer can maintain the optimal level of refrigerant.

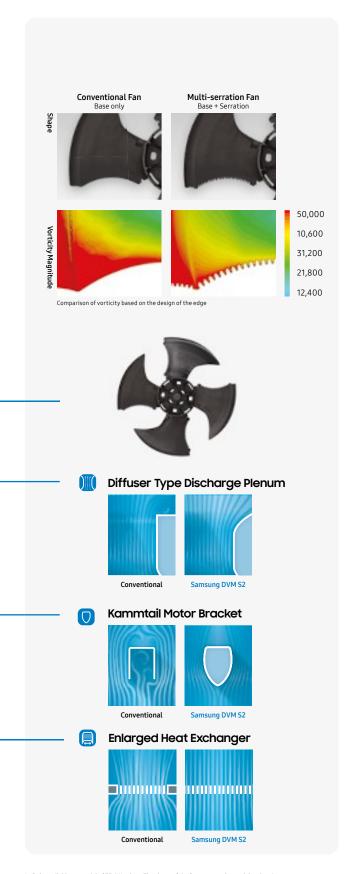
- * A Machine Learning technology that uses an Artificial Neural Network (ANN) to learn like a human using various data.
 ** Based on a research thesis, "A novel hybrid deep neural network model to predict the refrigerant charge amount of heat pumps",



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 noise 2 .



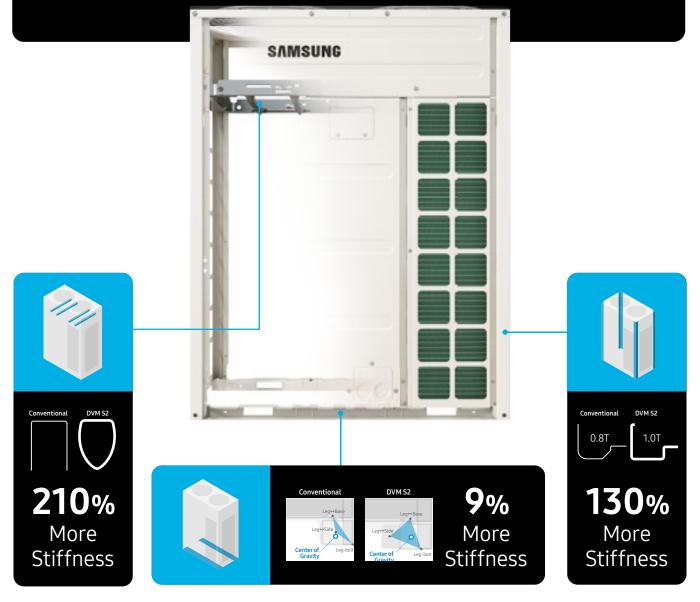


Only available on model of 33.6W or less. The shape of the fan may vary by model and region. Based on internal testing and stimulation using a fluid dynamics software, Ansys CFX. Results may vary depending on the actual usage conditions.

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 $100\mu m$ thickness. These features were proven to ensure a maximum durability in challenging weather conditions.²

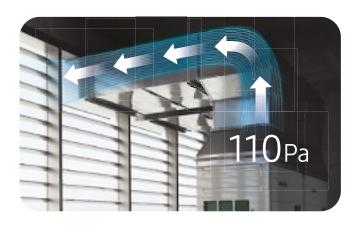


Based on a test in accordance with ICC ES AC156: 2010 (SDS=2.5g, z/h=1), conducted by SGS Korea Co., Ltd. Result Report No.: SGS-R20-1599-KR00

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.

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.





- 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



with its updated features: the Center Point Indicator of Weight and the Simplified Cover with Handle, making it safety with less effort.

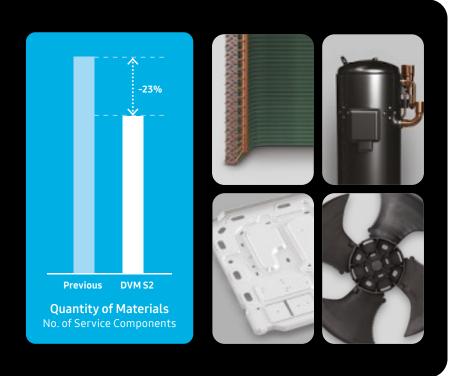
can be accessed easily when servicing, without opening the whole cabinet.



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.

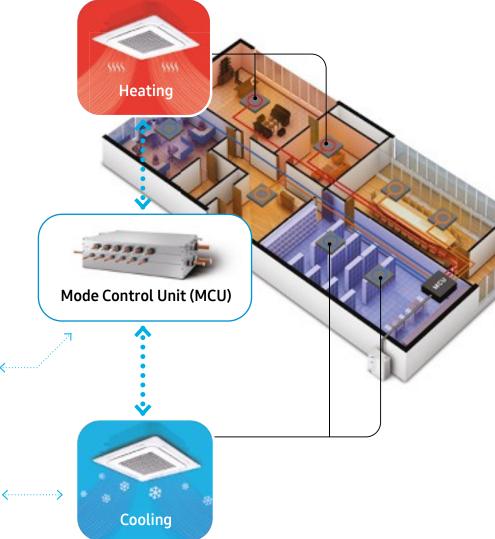
Based on its Quality-based Modular Design (QMD), the DVM S2 is built with high-quality modules that were preselected and preconfigured. It delivers both superior performance and reliability. Additionally, it saves up significant warehouse space, as it does not come in multiple parts.



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 1 to 12 ports and can be piped together. This allows for up to 64 indoor unit connections to a single DVM S2 system (where specifications allow).









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

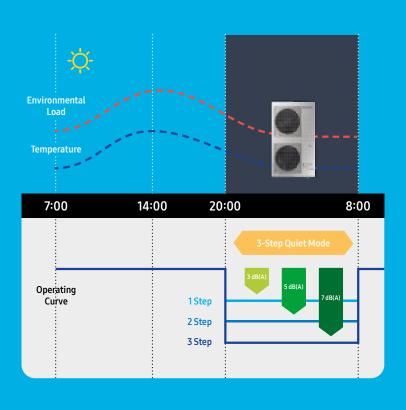
DVM S Water gives an effective and reliable performance using water as a means of heat exchange. It can be connected through a heat exchanger to multiple natural sources like geothermal loops, seawater or lakes.





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 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.

Silent mode

By producing less noise than conventional Samsung 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.

Based on internal testing. Height comparison in 6HP models: Samsung

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.

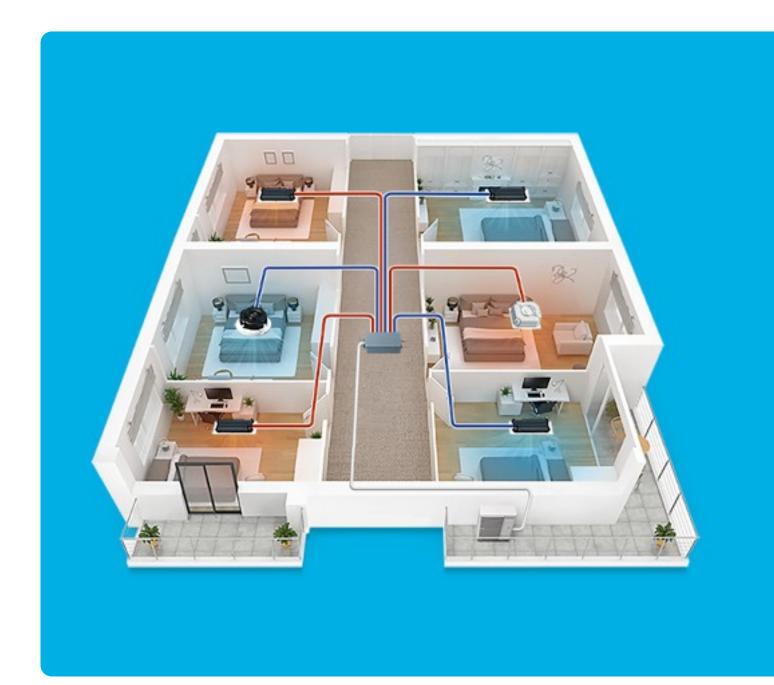
Heat Recovery for DVM



Compact Heat Recovery solution

The Heat Recovery (HR) feature for Samsung DVM S ECO and DVM S2 is designed to control temperatures in multiple spaces at once.

Optimised for hotels, offices and residential buildings, it can provide cooling and heating for up to 12 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

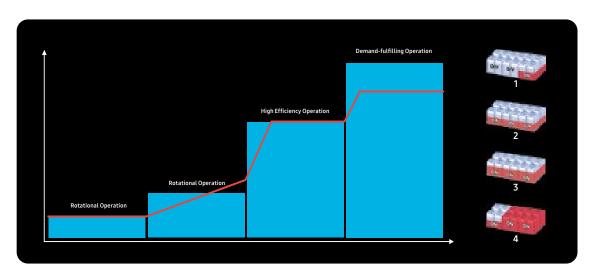


Modular Function

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.

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



- At low load, the varying outdoor units are switched on at alternate intervals 2/3. At average load, the outdoor units are operated at partial load to optimise efficiency At maximum load, all compressors of all outdoor units are operated at maximum capacity

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.

System control Fan Coil Unit HVM Chiller On/Off (Linked with Chiller) Central Controller Third party pumps

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 check valve¹

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

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



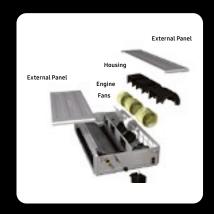


MSP/HSP Duct S¹

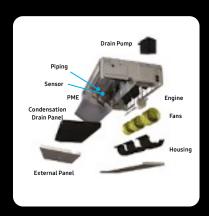
Easy installation and maintenance

Thanks to their ultra-compact design, Samsung duct units can be placed anywhere. This makes for easy installation and maintenance.

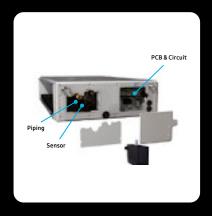
The indoor unit can be accessed from three directions: from the top, bottom and one side, making maintenance simpler than ever.



Accessible from top



Accessible from bottom



Accessible from side

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.



Based on model AM***AN*PKH/EU



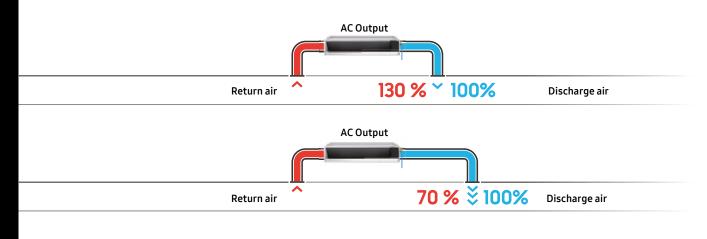
Indoor discharge temperature

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.

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.







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.

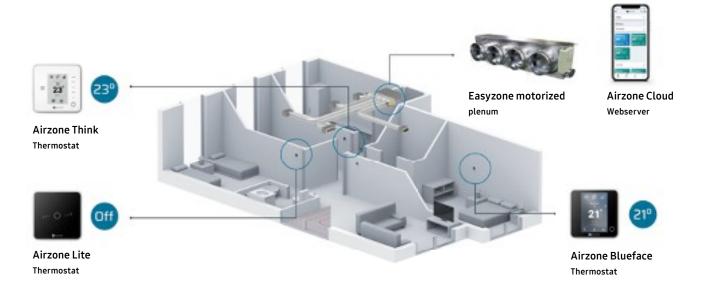
Flexibility and Smart Operation

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 Assistant².³ and Amazon Alexa².⁴.



- Available for iOS and Android Voice control is supported by AI 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





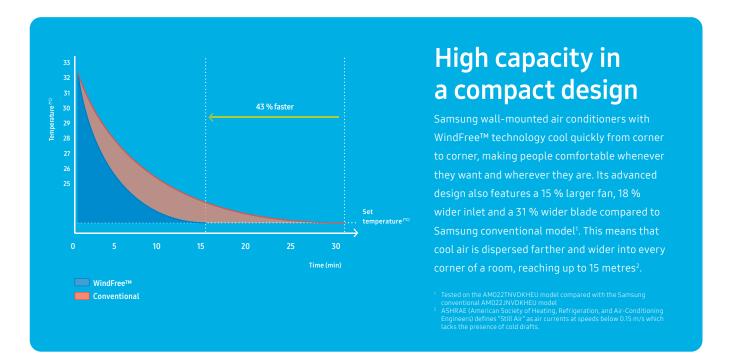
Airzone⁵ compatible models

| 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

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





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.





Samsung's roller type bracket makes mounting the unit much easier. Simply hang it on the unit and find the best place to install it by sliding the bracket from side to side.

45%

Assembled parts (6)/ Screw points (5)

Installation time¹:

Assembled parts (3)/ Screw points (2)

Installation time¹: 5.1 min

¹ Tested on the AM022TNVDKHEU model compared with the Samsung conventional AM022JNVDKHEU model under specific conditions and may vary on specific factors

Step 1 Step 2 Step 3 Fast Dehumidification WindFree™ Cooling Cooling

Step 3

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 do not have to deal with the unpleasant feeling of a cold draft on their skin. This results in a "Still Air" environment¹ with a very low air speed and limited noise2. The advanced airflow structure of this mode also means that it cools a wider and larger area more evenly. And it consumes 77 % less energy than Fast Cooling mode³, so people can stay comfortably cool while reducing energy costs.

- ASHRAE (the American Society of Heating, Refrigerating, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts. Tested on the ARI2TXCAAWKNEU mode lin an anechoic environment. WindFreel* 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.
- operating conditions.

 Tested on the ARIZTVEAMKNAP model under specific testing conditions, based on the power consumption of Fast Cooling mode vs. WindFree^{IM} Cooling mode.



Smart Control

Step 1

Step 2

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.



→ Time (min)





WindFree™ 4-Way Cassette ™



WindFree[™] Technology

The WindFree[™] 4-Way Cassette directs air through 15,700 microholes 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.

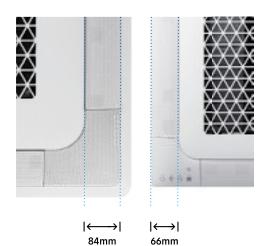
ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents at speeds below 0.15 m/s which lacks the presence of cold drafts.



WindFree™ 4-Way Cassette

15,700 micro-holes





9,000 micro-holes

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.

' Samsung testing compares the WindFree™ 4-Way and WindFree™ 4-Way 600 x 600 Cassette to a previous 4-Way Cassette type

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.





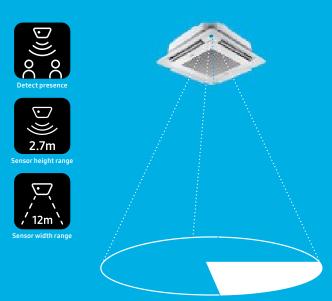




WindFree™ Cooling

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.



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.

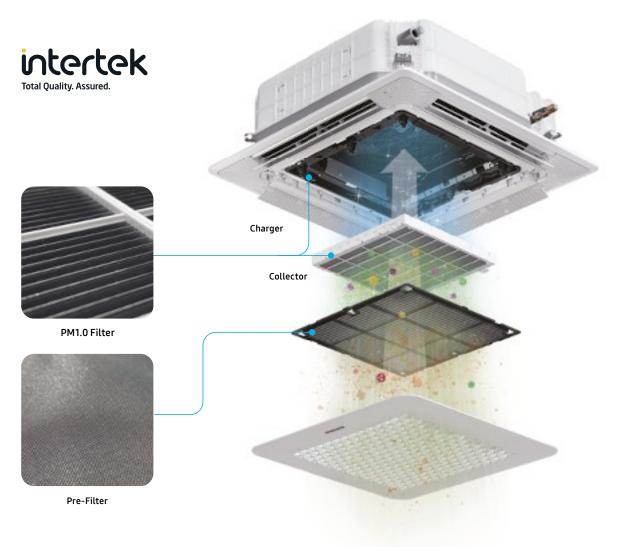
¹ May vary based on the actual usage conditions.



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.



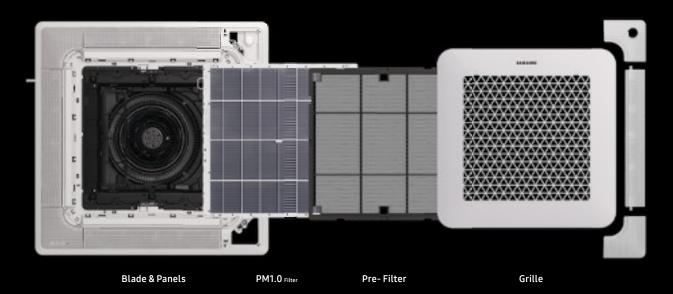
Intertek Report No.: RT20E-S0010-R Date: APR. 17, 2020 (Revised) Based on the data collected the Hypothesis is accepted: The K-element (Electrostatic Precipitator) of Samsung Electronics can sterilize the certain types of bacteria that collected on the filter. (Escherichia coli: above 99 %, Staphylococcus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

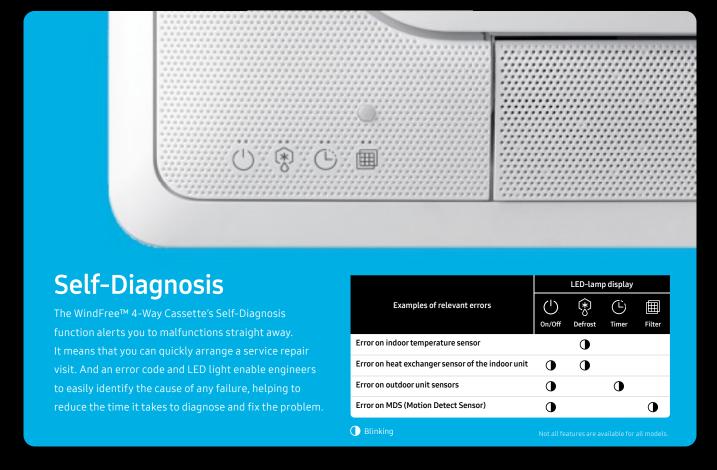
Detachable Washable Parts

The cleanliness of the exterior, as well as the filters, is very important for 4-Way Cassettes that are widely used in commercial spaces. The panels and filters of the WindFreeTM 4-Way Cassette are very

easy to remove and clean. 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.





WindFree™ 1-Way Cassette

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.



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.

Ducted Airconditioner



Duct work requiredDust particles accumulate in both filters and duct work



Professional cleaning service or tool required It is difficult to clean the inside duct work, so you need to hire a professional cleaner

WindFree™ 1-Way Cassette



No duct work required
Only the filter needs to be cleaned



Anyone can clean it with water
Only the filter needs to be cleaned

^{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)

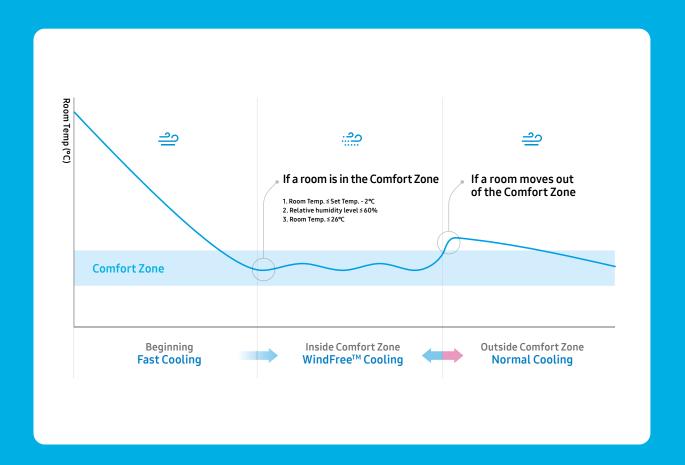




Samsung testing compares the WindFree™ 1-Way Cassette to a conventional 1-Way Cassette-type air conditioner.
Resed on the 71 kW indoor unit

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



Smart Comfort Operation

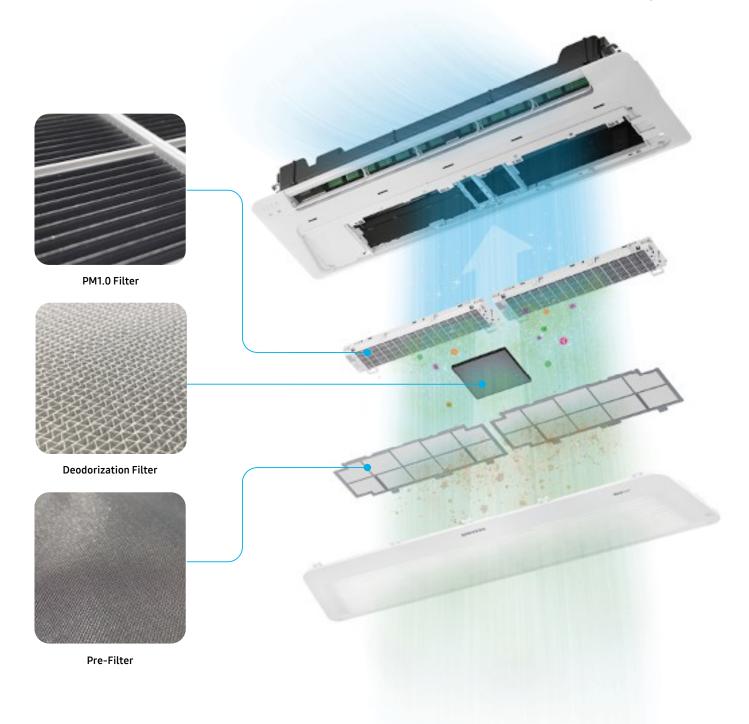
The WindFree™ 1-Way Cassette has a humidity sensor as well as a temperature sensor. It continually monitors both the temperature and relative humidity¹ and analyzes the room

conditions. It then automatically switches between operating modes to keep everyone feeling really comfortable without the need for any manual control.

Not all features are available for all models

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





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 $0.3~\mu m$ 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.

The Deodorization Filter can only be found in WindFree^{IM} 1-Way Cassette.
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 %)

13,000 micro-holes

SAMSUNG

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.

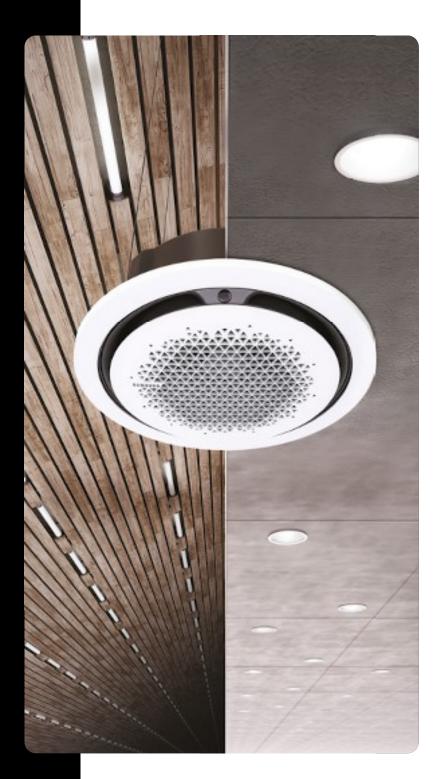
ASHRAE (the American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts.



Innovations in detail

360 Cassette



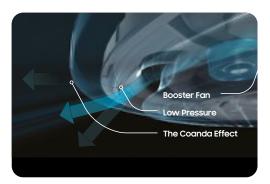


Airflow Control

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.





Stylish design

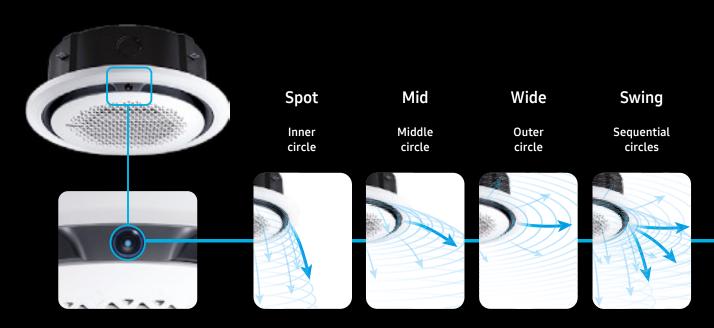
The 360 Cassette has an innovative circular design that enables it to match a multitude of interior designs, that adds a touch of style to any room. Its minimalistic and elegant styling can help to create a sophisticated and distinctive look in many different sites. With a circular panel, it can fit 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.

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.



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.



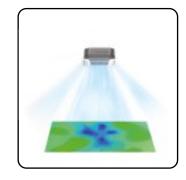
Samsung 360 Cassette

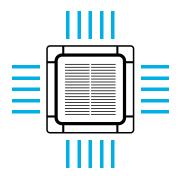
Circular airflow

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

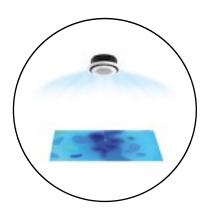
- Samsung testing compares the 360 Cassette to a conventional 4-Way Cassette type air conditioner.
 The temperature difference is less than 0.6 °C within a 9.3 m radius.
 No cold draft between 0-1.5 m in height (with a 14.0 kW indoor unit) within a 5 m radius.

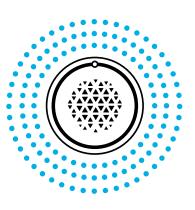
Conventional 4-Way Cassette





Samsung **360 Cassette**







Innovations in detail | 360 Cassette



Air Purification Panel

The Samsung 360 Cassette offers an Purifying Panel that keeps the indoor air 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 μm in size, but it also sterilizes up to 99 % of certain types of bacteria1 trapped by the filter using an electrostatic precipitator1.

- Precipitator) of Samsung Electronics can sterilize certain types of bacteria that collected on the filter (Escherichia coli: above 99 %, Staphylococcus aureus: above 99 %).
- The Air Purification panel is an optional accessory



Auto Elevation Panel

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

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

- May vary based on the actual usage conditions.
 The Auto Elevation panel is an optional accessory





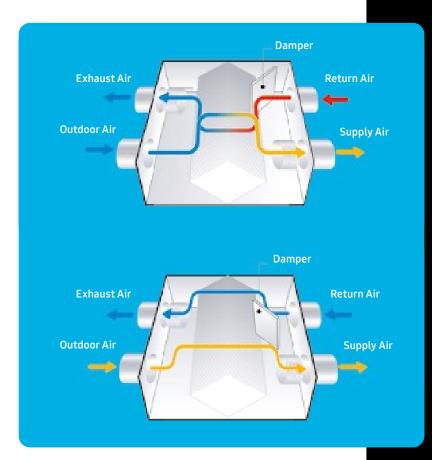


ERV (Plus)



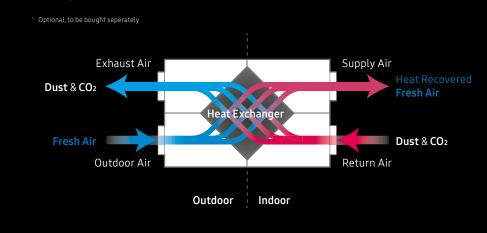
Smart cooling auto mode

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 indoor unit has a CO_2 Sensor¹ that detects the level of CO_2 in the air and instantly draws in more outdoor air to maintain a comfortable environment. When the CO_2 level is low the fan speed will be lower and energy will be saved due to the lower power consumption of the fans and loss due to the ventilation of the room air.



Air Handling Unit (AHU) Kit

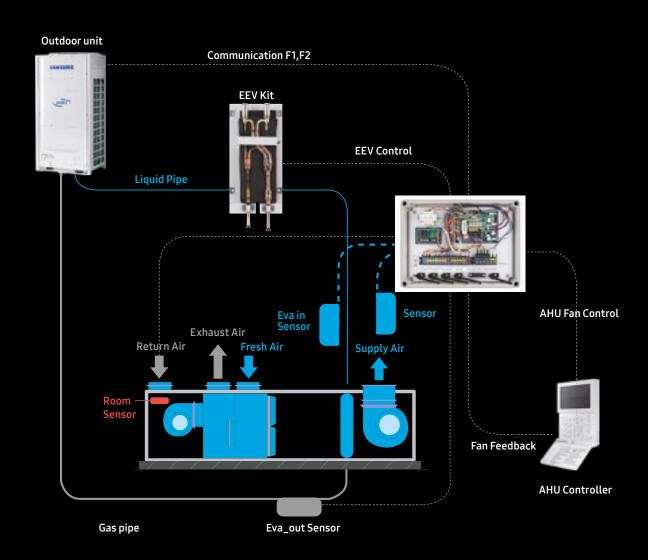
Connect to third-party air handling units

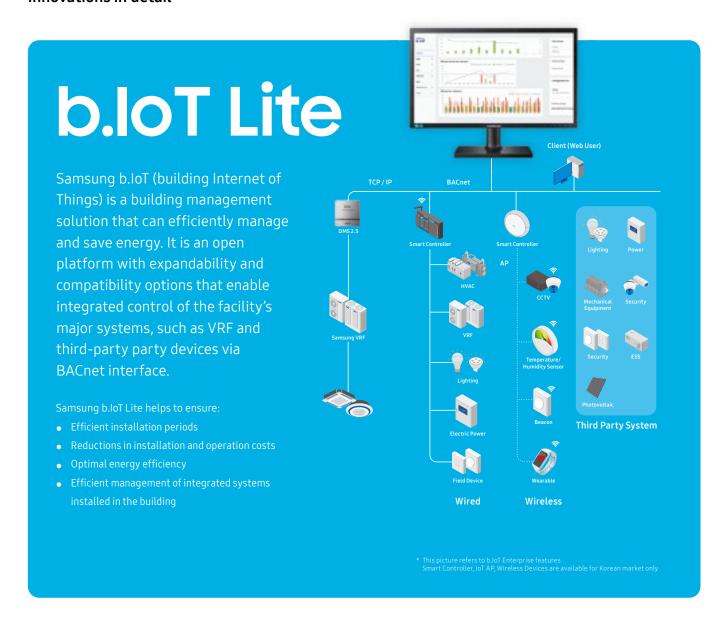
The Samsung AHU kit allows the connection of DVM outdoor units to third-party air handling units (AHUs)¹. With this kit you can supply heating or cooling to a DX coil in the AHU. This is a cost-efficient and effective way to provide fresh air to the building at the correct temperature. The unit improves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

Features include:

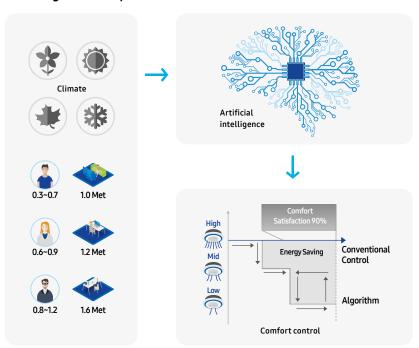
- IP54 waterproof certification (for MXD type AHU kit only)
- Variable capacity
- 2.5 HP-40 HP
- Simple BMS application (0-10 V, MXD-K/X Series)
- Discharge air temperature control and outdoor capacity control

¹ Please contact your local Samsung representative for more information.





Samsung b.IoT Lite provides:



Intelligent energy saving algorithms

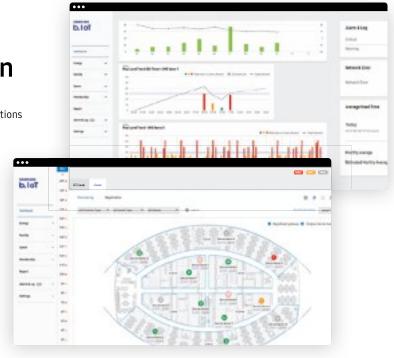
- Data-Based Comfort Control
 Comfort based on user-specific algorithms
- Learning-Based Control
 Optimised control by artificial intelligence (AI)
- Occupancy-Based Control
 Lighting, humidity & temperature
- Inefficient Operation Detection
 Time, space & temperature

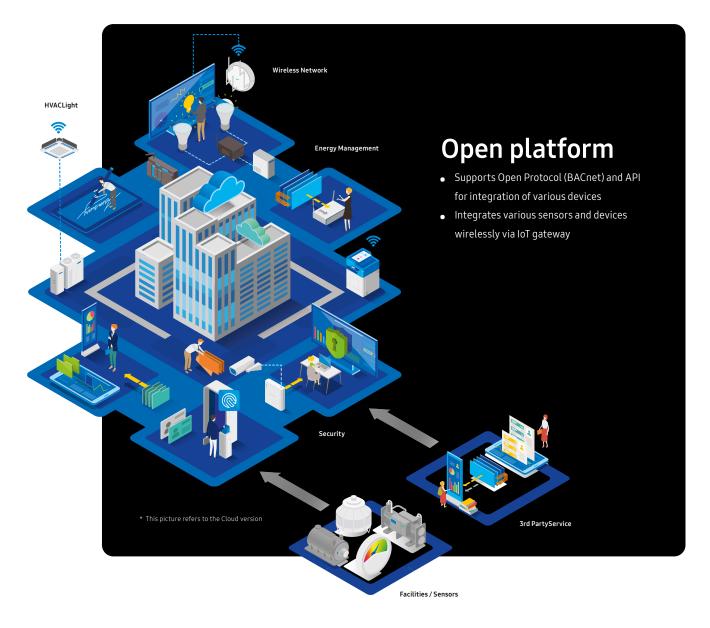
Easy and smart operation

- 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
- Energy consumption distribution









Line-up outdoor

| Model Image | | | | | | | | | Capac | ity (HP) | | | | | | |
|---|---|--|---|---|---|---|----|----|-------|----------|----|----|----|----|----|----|
| | | | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 30 |
| Heat Pump | DVM S Eco Heat Pump | | • | • | | • | • | • | | | | | | | | |
| | DVM S2 Essential Heat Pump (2-Pipe) | | | | | | • | • | • | • | • | | | | | |
| | DVM S2 Standard Heat Pump (2-Pipe) | | | | | • | • | • | • | • | • | • | • | • | • | |
| DVM S2 High Efficiency Heat Pump (2-Pip | | | | | | • | • | • | • | • | • | • | • | • | • | |
| Heat Recovery | DVM S Eco Heat Recovery (With Heat Recovery Changer Kit) | | • | • | • | | | | | | | | | | | |
| | DVM S2 High Efficiency Heat Recovery (3-Pipe) | | | | | • | • | • | • | • | • | • | • | • | • | |
| Water to Air/Water | DVM S Water | | | | | • | • | • | | | | • | | | | • |



Line-up indoor

| Model | Image | | | | | | C | apacity (kW) | | | |
|---------------------------------------|------------|-----|-----|-----|-----|-----|-----|--------------|-----|-----|--|
| | | 1.5 | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 6.0 | 7.1 | |
| WindFree™ 1-Way Cassette | - mine | | • | • | • | • | | • | | • | |
| 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 | 706 | | | | | • | | • | | • | |
| Packaged Floor-Standing | | | | | | | | | | | |
| WindFree™ Deluxe (EEV included) | | • | | • | • | • | • | • | | • | |
| WindFree™ Deluxe (EEV excluded) | THE STREET | • | | • | • | • | • | • | | • | |
| Max Wall-Mounted | | | | | | | | | | | |
| Hydro Unit HE | TI. | | | | | | | | | | |
| Hydro Unit HT | | | | | | | | | | | |

- NOTE

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

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

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

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

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

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

| Capacity (kW) | | | | | | | | | | | |
|---------------|-----|------|------|------|------|------|------|------|------|------|------|
| 8.2 | 9.0 | 11.2 | 12.8 | 14.0 | 16.0 | 18.0 | 22.0 | 25.0 | 28.0 | 32.0 | 50.0 |
| | | | | | | | | | | | |
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Selection guide

Heat pump







| | 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

Heat recovery



| DVM S Eco | DVM S2 High Efficiency | DVM S Water |
|----------------------------------|------------------------|----------------------------------|
| AM***BXMDER/EU AM***BXMDGR/EU | AM***AXVGGR/EU | AM***MXWANR/EU AM***KXWANR/EU |
| •i | | •1 |
| • | • | • |
| 4-6 HP | 8-98 HP | 8-90 HP |
| • | • | • |
| • | • | • |
| • | • | • |
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| R410A | R410A | R410A |
| • | • | · |
| - | • | • |
| • | • | • |
| - | - | - |

Selection guide

Cassette











| | Model | WindFree™ 1-Way Cassette | WindFree™ 4-Way Cassette | 360 Cassette | LSP Duct | MSP Duct | |
|------------------|-------------------------------------|--------------------------|--------------------------|--------------|----------------|----------|--|
| | | | | | | | |
| 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-specific | • | |
| | | | | | | | |

Others



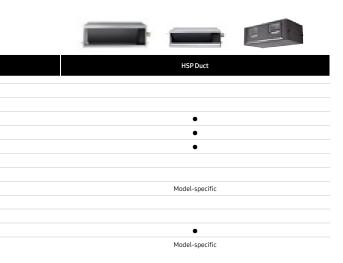


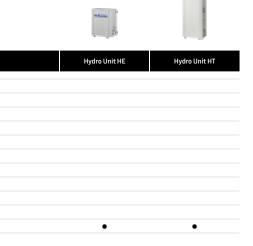






| | Model | Console | Floor/Ceiling | Big Ceiling | Concealed Floor-Standing | Packaged Floor-Standing | |
|------------------|-------------------------------------|---------|---------------|-------------|--------------------------|-------------------------|--|
| | | | | | | | |
| Airflow | WindFree™ 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) | | | | | | |
| | Automatic ESP Setting | | | | | | |
| | Quiet Mode | | | | • | | |
| Controls | Wireless remote controller included | • | | | | | |
| Others | EEV included | • | | • | • | • | |
| | Built-In Drain Pump | | | | | | |











Nomenclature

Indoor units



| | | AM | VRF (DVM) | |
|---|------------------|----|--|--|
| 1 | Classification | AN | Ventilation (ERV) | |
| 2 | Capacity | | x 1/10 kW (3 digits) | |
| | | F | 2013 | |
| | | н | 2014 | |
| | | J | 2015 | |
| | Version | K | 2016 | |
| 3 | | М | 2017 | |
| | | N | 2018 | |
| | | R | 2019 | |
| | | т | 2020 | |
| | | A | 2021 | |
| | | N | Indoor Unit (NASA) | |
| 4 | 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 | |
| 5 | Product Notation | F | Floor-Standing | |
| | | Р | Packaged Floor-Standing | |
| | | Т | Boracay Wall-Mounted (EEV excluded) | |
| | | Q | Boracay, Max Wall-Mounted (EEV included) | |
| | | A | AR5000 Wall-Mounted (EEV excluded) | |
| | | V | AR5000 Wall-Mounted (EEV included) | |
| | | В | Hydro Unit | |
| | | К | ERV (Plus) | |
| | | W | DVM S Water | |
| | | F | Flagship | |
| | | Р | Premium | |
| 6 | Feature | D | Deluxe | |
| | | S | Standard | |
| | | E | 1Ф, 220~240 V, 50 Hz | |
| 7 | Voltage Rating | К | 1Ф, 220~240 V, 50/60 Hz | |
| | | G | 3Ф, 220~240 V, 50 Hz | |
| | | Н | Heat Pump (R410A) | |
| 8 | Mode | В | Heat Pump (R134A) | |
| | | N | ERV | |

Nomenclature

Outdoor units



| 1 | Classification | AM | VRF (DVM) | |
|---|------------------|----------------------|---|--|
| 2 | Capacity | x 1/10 HP (3 digits) | | |
| | | K | 2016 | |
| | | М | 2017 | |
| | | N | 2018 | |
| 3 | Version | R | 2019 | |
| | | Т | 2020 | |
| | | А | 2021 | |
| | | В | 2022 | |
| 4 | Product Type | Х | Outdoor Unit | |
| | | ٧ | DVM S Essential/Standard/High Efficiency | |
| 5 | Product Notation | W | DVM S Water | |
| | | М | DVM S Eco | |
| | | А | Standard + General Temperature + Module | |
| 6 | | Н | High EER + Low Temperature + Module | |
| 0 | Feature | 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 | |
| | | Н | Heat Pump | |
| 8 | Mode | R | Heat Recovery | |

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.







| | | | | 100 | The same of | DOMEST OF | |
|--------------------------------|--|-------------------|-------------|-------------------------|---------------------------------------|-------------------------|--|
| | 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 Hz | |
| Performance | HP | | 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 | |
| | | Heating | kW | 3.23 | 4.12 | 6.4 | |
| | Current Input | Cooling | Α | 17.8 | 23.8 | 17.2 | |
| | | Heating | Α | 14.8 | 18.9 | 10 | |
| | Current | Minimum SSC value | MVA | | - | 3.4 | |
| | | MCA | Α | 24 | 27 | 18.4 | |
| | | MFA | Α | 32 | 40 | 25 | |
| Energy 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 | |
| Fan | 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 | |
| Fan 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 | |
| | | | ø, inch | 3/8 | 3/8 | 3/8 | |
| | Gas Pipe | | ø, mm | 15.88 | 15.88 | 19.05 | |
| | | | 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 | A(Fluorinated greenhouse gas, GWP=2,0 | 088) | |
| | Factory Charging | | kg/tCO₂e | 2.00/4.18 | 2.50/5.22 | 3.70/7.73 | |
| Sound 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 | Heating | | °C | -20.0~24.0 | -20.0~24.0 | -20.0~24.0 | |
| | | | | | | | |







| 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 x 1 | 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 |
| | R410A(Fluorinated greenhouse gas, GWP=2,088) | |
| 3.70/7.73 | 4.30/8.98 | 4.80/10.02 |
| 58 | 58 | 60 |
| 59 | 64 | 64 |
| | | |
| 73 | 74 | 76 |
| | 74 155 | 76 162 |
| 73 | | |
| 73 135 | 155 | 162 |

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

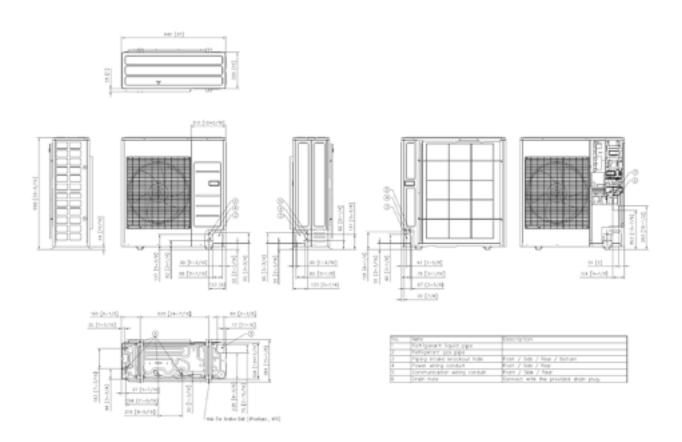
Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

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. Sound Power: ODU and IDU operation mode is "Cooling" and hydro unit is "Heating".

ODU: Outdoor Unit, IDU: Indoor Unit

DVM S Eco Heat Pump

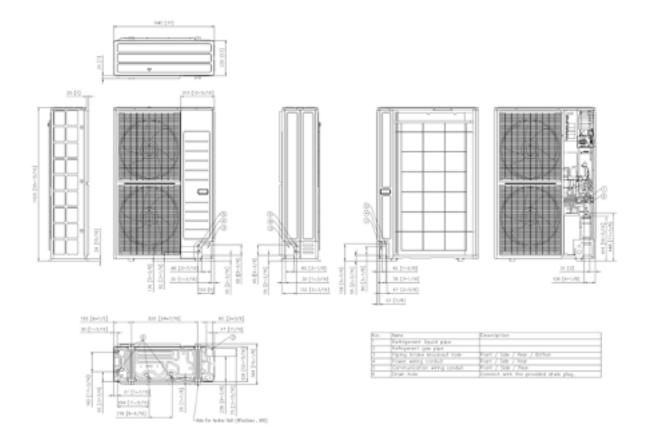
AM040BXMDEH/EU, AM050BXMDEH/EU
Units: mm [inches



| 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. |

AM080BXMDGH/EU, AM080BXMWGH/EU

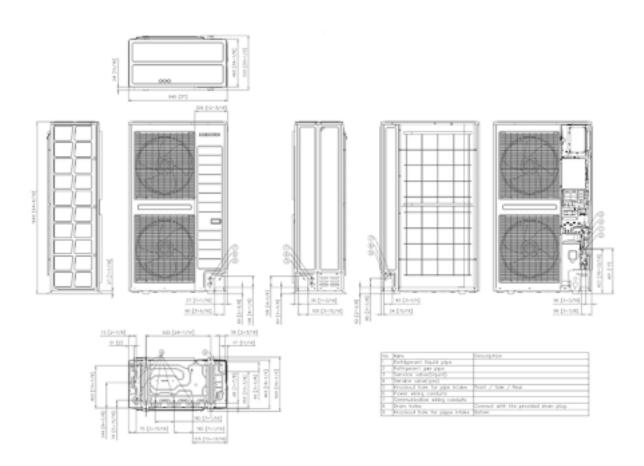
Units: mm [inches]



| 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

AM100BXMWGH/EU, AM120BXMWGH/EU



| 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/Side/Rear | | |
| 6 | Power wiring conduits | Front/Side/Rear, ø44 (ø1 3/4) | | |
| 7 | Communication wiring conduits | Front/Side/Rear, ø28 (ø11/8) | | |
| 8 | Drain holes | Connect with the provided drain plug. | | |
| 9 | Knock-out hole for pipe intake | Bottom | | |



DVM S2 Essential Heat Pump (2-Pipe)

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

- Active AI Refrigerant analysis.
- Durafin™ Ultra Heat Exchanger Fin.
- Optional Slimmer Liquid Pipe.
- 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 Hz |
| Performance | НР | | 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 |
| Power | Current Input | Cooling (Rated) | Α | 20.50 | 22.01 | 28.60 |
| | | Heating (Rated) | Α | 14.34 | 16.45 | 20.91 |
| | Current | Minimum SSC value | MVA | 3.7 | 4.0 | 4.6 |
| | | MCA | Α | 23.0 | 25.0 | 29.0 |
| | | MFA | Α | 32 | 32 | 32 |
| Energy efficiency | SEER | | W/W | 6.00 | 6.40 | 6.20 |
| | SCOP | | W/W | 4.10 | 4.30 | 4.10 |
| | ηs.c | | % | 237 | 253 | 245 |
| | ηs.h | | % | 161 | 169 | 161 |
| Compressor | Туре | | - | Inverter Scroll x 1 | Inverter Scroll x 1 | Inverter Scroll x1 |
| • | 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 |
| Fan | Туре | | - | Propeller | Propeller | Propeller |
| | Discharge direction | | - | Vertical | Vertical | Vertical |
| | Number of Fans | | ea | 1 | 1 | 1 |
| | Airflow Rate | | m³/min | 167 | 196 | 210 |
| | 7 | | l/s | 2,779 | 3,260 | 3,500 |
| | External Static Pressure | Max. | mmAq | 11 | 11 | 8 |
| | External static ressure | T I I I | Pa | 110 | 110 | 80 |
| Fan Motor | Туре | | - | BLDC Motor | BLDC Motor | BLDC Motor |
| Tun Piotoi | Output | | Wxn | 630 x 1 | 630 x 1 | 630 x 1 |
| Piping Connections | Liquid Pipe | | ø, mm | 9.52 | 12.70 | 12.70 |
| riping connections | Liquid Fipe | | ø, inch | 3/8 | 1/2 | 1/2 |
| | Gas Pipe | | | 22.22 | 28.58 | 28.58 |
| | das Pipe | | ø, mm ø, inch | 7/8 | 11/8 | 11/8 |
| | 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. | m | 1,000 | 1,000 | 1,000 |
| | Level difference (ODU in highest position) | Max. | m | 110 | 110 | 110 |
| | Level difference (IDU in highest position) ³ | Max. | m | 110 | 110 | 110 |
| | | | | 50 | | |
| Misiaa Caasatiaaa | Level Difference (IDU-IDU)3 Transmission Cable | Max. | m ? | | 50 | 50 |
| Wiring Connections | Transmission Cable | Min. | mm² | 0.75 | 0.75 F1, F2 | 0.75 |
| Defricerent | Time | Remark | - | F1, F2 | | F1, F2 |
| Refrigerant | Type | | | | A (Fluorinated greenhouse gas, GWP=2 | |
| | Factory Charging | | kg | 5.5 | 7.0 | 7.0 |
| | Sound Droceuro ² | Cooling | tCO₂e | 11.48 | 14.62 | 14.62 63 |
| Sound | Sound Pressure ² | Cooling | dB(A) | | 61 | |
| | Causad Danies | Heating | dB(A) | 60 | 63 | 65 |
| External Dimensions | Sound Power | Cooling | dB(A) | 78 | 81 | 85 |
| External Dimensions | Net Weight | | kg | 185 | 205 | 207 |
| 0 | 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 Temperature Range | Cooling | | °C | -5~50 | -5~50 | -5~50 |
| | 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 |
| 34, 4, 360-413 V, 30 H2 | 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 |
| R410A (Fluorinated gree | enhouse gas, GWP=2,088) |
| 8.0 | 8.0 |
| 16.70 | 16.70 |
| 60 | 61 |
| 62 | 64 |
| 81 | 83 |
| 242 | 242 |
| 1,295 x 1,695 x 765 | 1,295 x 1,695 x 765 |
| -5~50 | -5~50 |

1 Performances are based on the following test conditions:

- Cooling: Indoor temperature: 27 °C DB, 19 °C WB,
Outdoor temperature: 25 °C DB, 24 °C WB

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

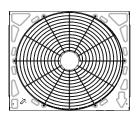
- Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

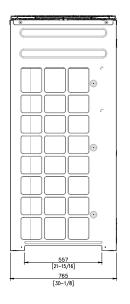
2 Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates. Sound Power: ODU and IDU operation mode is "Cooling" and hydro unit is "Heating".

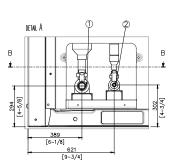
3 ODU: Outdoor Unit, IDU: Indoor Unit

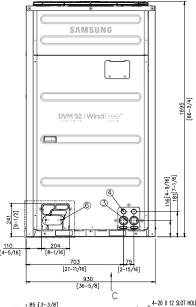
DVM S2 Essential Heat Pump (2-Pipe)

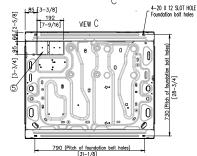
AM100/120/140AXVDGH/EU Units: mm [inches]

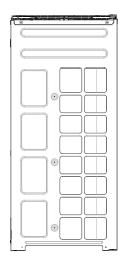


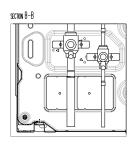












| NO | Name | Description | | |
|----|--|-------------|--|--|
| 1 | Gas Ref.pipe | See NOTE 4. | | |
| 2 | Liquid Ref.pipe | See NOTE 4. | | |
| 3 | Power wiring conduit | Ø44 | | |
| 4 | Communication wiring conduit | Ø34 | | |
| 5 | Knock-out Hole for Ref.Piping (bottom) | | | |
| 6 | Knock-out Hole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

- Note:

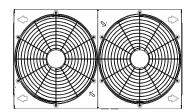
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.

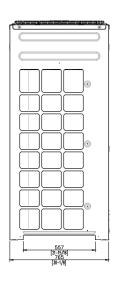
 2. Item 3-6: Knock-out hole
 3. View C indicate the dimension of knock-out hole (bottom)

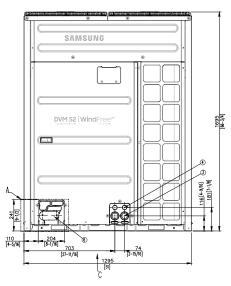
 4. Pipe [Ø, mm(inch)]: Brazing connection

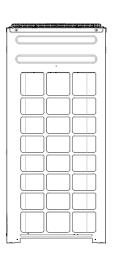
| HP | Liquid pipe | Gas pipe |
|----|-------------|--------------|
| 8 | 0.52(7.(0) | 10.05(7/4) |
| - | 9.52(3/8) | 19.05(3/4) |
| 10 | 9.52(3/8) | 22.22(7/8) |
| 12 | 12.70(1/2) | 28.58(1-1/8) |
| 14 | 12.70(1/2) | 28.58(1-1/8) |
| 16 | 12.70(1/2) | 28.58(1-1/8) |
| 18 | 15.88(5/8) | 28.58(1-1/8) |
| 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) |

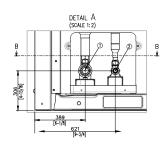
AM160/180AXVDGH/EU Units: mm [inches]

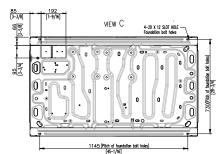


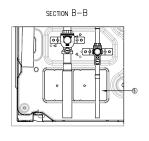












| NO | Name | Description | | |
|----|--|-------------|--|--|
| 1 | Gas Ref.pipe | See NOTE 4. | | |
| 2 | Liquid Ref.pipe | See NOTE 4. | | |
| 3 | Power wiring conduit | Ø44 | | |
| 4 | Communication wiring conduit | Ø34 | | |
| 5 | Knock-out Hole for Ref.Piping (bottom) | | | |
| 6 | Knock-out Hole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

| M | ^ | + | _ |
|-----|---|---|---|
| 1.4 | U | L | C |

- Note:

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

 2. Item 3-6: Knock-out hole

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

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

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

DVM S2 Standard Heat Pump (2-Pipe)

- Erp (Ecodesign) compliant and Eurovent certified.
- Advanced Flash Injection™ technology.
- Active AI Pressure Control.
- Active Al Defrost.
- Active AI Refrigerant analysis.
- Durafin™ Ultra Heat Exchanger Fin.
- Optional Slimmer Liquid Pipe.
- On-device Inverter Checker™.



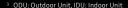




| | Model | | | AM080AXVAGH/EU | AM100AXVAGH/EU | AM120AXVAGH/EU | |
|--------------------------------|---|----------------|--------------------|-------------------------|---------------------------------------|-------------------------|--|
| | Model | | | AMOSOAXVAGII/ EO | AMIOUAXVAGII/EU | AM120AXVAG11/L0 | |
| Power Supply | | | Φ, #, V, Hz | 3Ф, 4, 380-415 V, 50 Hz | 3Ф, 4, 380-415 V, 50 Hz | 3Ф, 4, 380-415 V, 50 Hz | |
| Performance | HP | | HP | 8 | 10 | 12 | |
| | Capacity | Cooling | kW | 22.4 | 28.0 | 33.6 | |
| | | Heating | kW | 22.4 | 28.0 | 33.6 | |
| | Maximum number of connectable indoor units | | ea | 14 | 18 | 21 | |
| | Total capacity of the connected indoor units | Min. | kW | 11.2 | 14.0 | 16.8 | |
| | | Max. | kW | 29.1 | 36.4 | 43.7 | |
| Power | Current Input | Cooling | Α | 12.60 | 18.41 | 19.83 | |
| | | Heating | Α | 9.50 | 12.90 | 14.82 | |
| | Current | MCA | Α | 18.0 | 23.0 | 25.0 | |
| | | MFA | Α | 25 | 32 | 32 | |
| Energy Efficiency ¹ | SEER | | W/W | 6.5 | 6.2 | 6.6 | |
| | SCOP | | W/W | 4.2 | 4.2 | 4.4 | |
| | ηs.c | | % | 257 | 245 | 261 | |
| | ηs.h | | % | 165 | 165 | 173 | |
| Compressor | Output | | kW x n | 4.39 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 | |
| Fan | 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 | |
| Fan Motor | Туре | | - | BLDC Motor | BLDC Motor | BLDC Motor | |
| | Output | | Wxn | 630 x 1 | 630 x 1 | 630 x 1 | |
| Piping Connections | Liquid Pipe | | ø, mm | 9.52 | 9.52 | 12.70 | |
| | | | ø, inch | 3/8 | 3/8 | 1/2 | |
| | Gas Pipe | | ø, mm | 19.05 | 22.22 | 28.58 | |
| | | | ø, inch | 3/4 | 7/8 | 11/8 | |
| | 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 | |
| Wiring Connections | Transmission Cable | | mm² | 0.75 | 0.75 | 0.75 | |
| | Remark | | - | F1, F2 | F1, F2 | F1, F2 | |
| Refrigerant | Туре | | - | R410 | A (Fluorinated greenhouse gas, GWP=2, | 088) | |
| | Factory Charging | | kg | 5.5 | 5.5 | 7.0 | |
| | | | tCO ₂ e | 11.48 | 11.48 | 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 | 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 | |
| Operating | Cooling | | °C | -5~50 | -5~50 | -5~50 | |
| Temperature 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
- 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. Sound Power: ODU and IDU operation mode is "Cooling" and hydro unit is "Heating".















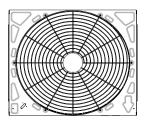


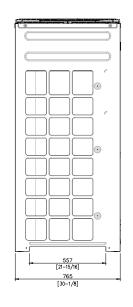


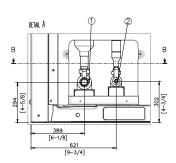
| AM140AXVAGH/EU | AM160AXVAGH/EU | AM180AXVAGH/EU | AM200AXVAGH/EU | AM220AXVAGH/EU | AM240AXVAGH/EU | AM260AXVAGH/EU |
|-------------------------|-------------------------|-------------------------|---------------------------------|-------------------------|-------------------------|-------------------------|
| 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 |
| 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 | 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 (I | Fluorinated greenhouse gas, GWI | P=2,088) | | |
| 7.0 | 8.0 | 8.0 | 10.5 | 10.5 | 14.0 | 14.0 |
| 14.62 | 16.70 | 16.70 | 21.92 | 21.92 | 29.23 | 29.23 |
| 63 | 60 | 61 | 61 | 64 | 65 | 65 |
| 65 | 62 | 64 | 63 | 65 | 67 | 67 |
| 85 | 81 | 83 | 84 | 86 | 87 | 87 |
| 207 | 242 | 242 | 268 | 301 | 325 | 325 |
| 930 x 1,695 x 765 | 1,295 x 1,695 x 765 | 1,295 x 1,695 x 765 | 1,295 x 1,695 x 765 | 1,295 x 1,695 x 765 | 1,295 x 1,695 x 765 | 1,295 x 1,695 x 765 |
| -5~50 | -5~50 | -5~50 | -5~50 | -5~50 | -5~50 | -5~50 |
| -25~24 | -25~24 | -25~24 | -25~24 | -25~24 | -25~24 | -25~24 |

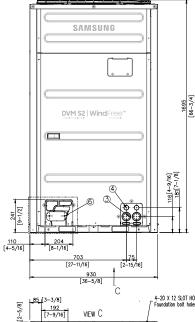
DVM S2 Standard Heat Pump (2-Pipe)

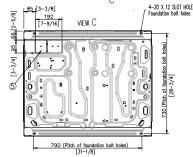
AM080/100/120/140AXVAGH/EU Units: mm [inches]

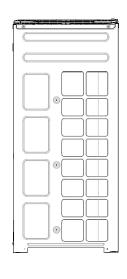


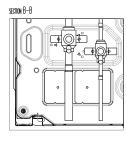












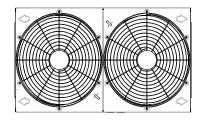
| NO | Name | Description |
|----|--|-------------|
| 1 | Gas Ref.pipe | See NOTE 4. |
| 2 | Liquid Ref.pipe | See NOTE 4. |
| 3 | Power wiring conduit | Ø44 |
| 4 | Communication wiring conduit | Ø34 |
| 5 | Knock-out Hole for Ref.Piping (bottom) | |
| 6 | Knock-out Hole for Ref.Piping (front) | |

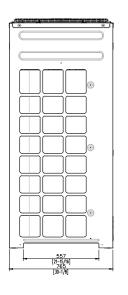
| НР | Liquid pipe | Gas pipe |
|----|-------------|--------------|
| 8 | 9.52(3/8) | 19.05(3/4) |
| 10 | 9.52(3/8) | 22.22(7/8) |
| 12 | 12.70(1/2) | 28.58(1-1/8) |
| 14 | 12.70(1/2) | 28.58(1-1/8) |
| 16 | 12.70(1/2) | 28.58(1-1/8) |
| 18 | 15.88(5/8) | 28.58(1-1/8) |
| 20 | 15.88(5/8) | 28.58(1-1/8)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

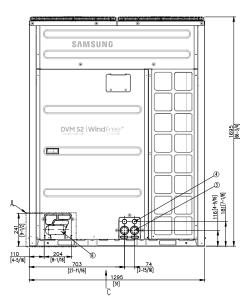
- Note:

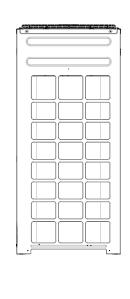
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
 2. Item 3-6: Knock-out hole
 3. View C indicate the dimension of knock-out hole (bottom)
 4. Pipe [Ø, mm(inch)]: Brazing connection

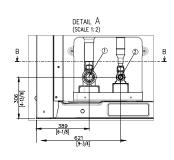
Units: mm [inches] AM160/180/200/240/260AXVAGH/EU

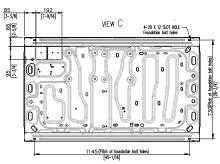


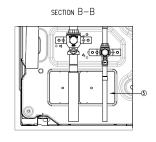












| NO | Name | Description |
|----|--|-------------|
| 1 | Gas Ref.pipe | See NOTE 4. |
| 2 | Liquid Ref.pipe | See NOTE 4. |
| 3 | Power wiring conduit | Ø44 |
| 4 | Communication wiring conduit | Ø34 |
| 5 | Knock-out Hole for Ref.Piping (bottom) | |
| 6 | Knock-out Hole for Ref.Piping (front) | |

| 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) |

- 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

DVM S2 High Efficiency Heat Pump (2-Pipe)

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

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



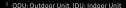




| | | | | E-1 | | Marine and |
|--------------------------------|---|-------------------|-------------|----------------------------|---------------------------------------|-------------------------|
| | Model | | | AM080AXVGGH/EU | AM100AXVGGH/EU | AM120AXVGGH/EU |
| Power Supply | | | Ф, #, V, Hz | 3Ф, 4, 380-415 V, 50 Hz | 3Ф, 4, 380-415 V, 50 Hz | 3Ф, 4, 380–415 V, 50 Hz |
| Performance | HP | | HP | 8 | 10 | 12 |
| | Capacity | Cooling | kW | 22.4 | 28.0 | 33.6 |
| | | Heating | kW | 22.4 | 28.0 | 33.6 |
| | Maximum number of connectable indoor units | ricuting | ea | 14 | 18 | 21 |
| | Total capacity of the connected indoor units | Min. | kW | 11.2 | 14.0 | 16.8 |
| | iotal capacity of the commerce major and | Max. | kW | 29.1 | 36.4 | 43.7 |
| Power | Current Input | Cooling | A | 11.44 | 15.97 | 19.25 |
| | current input | Heating | Α | 9.09 | 11.41 | 14.37 |
| | Current | Minimum SSC value | MVA | 3.0 | 3.4 | 4.0 |
| | current | MCA | A | 18.0 | 21.2 | 25.0 |
| | | MFA | A | 25 | 32 | 32 |
| Energy Efficiency ¹ | SEER | rii A | W/W | 7.2 | 6.9 | 6.9 |
| Lifergy Efficiency | SCOP | | W/W | 4.50 | 4.40 | |
| | ηs.c | | % | 285 | 273 | 4.56 273 |
| | ηs.h | | % | 177 | 173 | 179.4 |
| Compressor | Output | | kW x n | 4.39 x 1 | 6.67 x 1 | 6.67 x 1 |
| compressor | Oil | Туре | - | PVE | PVE | PVE |
| | Oit . | Initial Charge | cc x n | 900 x1 | 1,100 x 1 | 1,100 x 1 |
| Fan | Туре | illitiat charge | - | Propeller | Propeller | Propeller |
| Tall | Discharge direction | | | Тор | Тор | Тор |
| | Number of Fans | | ea | 1 | 1 | 1 |
| | Airflow Rate | | m³/min | 164 | 181 | 196 |
| | Airtow Rate | | l/s | 2,738.00 | 3,019.00 | 3,260.00 |
| | External Static Pressure | Max. | mmAq | 11 | 11 | 11 |
| | External Static Fressure | i-iux. | Pa | 110.00 | 110.00 | 110.00 |
| Fan Motor | Туре | | - | BLDC Motor | BLDC Motor | BLDC Motor |
| Tall Motor | Output | | Wxn | TBD | TBD | TBD |
| Piping Connections | Liquid Pipe | | ø, mm | 9.52 | 9.52 | 12.70 |
| r iping connections | Elquid Fipe | | ø, inch | 3/8 | 3/8 | 1/2 |
| | Gas Pipe | | ø, mm | 19.05 | 22.22 | 28.58 |
| | Cas Fipe | | ø, inch | 3/4 | 7/8 | 11/8 |
| | Piping length (ODU-IDU) ³ | Max. (Equiv.) | m 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 | i-iux. | mm² | 0.75 | 0.75 | 0.75 |
| Willing Connections | Remark | | - | F1, F2 | F1, F2 | F1, F2 |
| Refrigerant | Туре | | | | A (Fluorinated greenhouse gas, GWP=2, | |
| Kenigerane | Factory Charging | | kg | 7.0 | 7.0 | 7.0 |
| | ractory charging | | tCO₂e | 14.62 | 14.62 | 14.62 |
| Sound | Sound Pressure ² | Cooling | dB(A) | 53 | 14.62 | 61 |
| Journa | Joung Flessule | Heating | dB(A) | | 60 | 63 |
| | Sound Power | Cooling | dB(A) | 58 75 | | 81 |
| External Dimensions | Net Weight | Cooting | | | 78 | |
| LACETHAL DIMENSIONS | Net Dimensions (W x H x D) | | kg mm | 194 | 205 | 205 |
| Operating | | | °C | 930 x 1,695 x 765 -5~50 | 930 x 1,695 x 765 | 930 x 1,695 x 765 |
| Temperature Range | Cooling | | | | -5~50 | -5~50 |
| | 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
- 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. Sound Power: ODU and IDU operation mode is "Cooling" and hydro unit is "Heating".















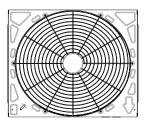


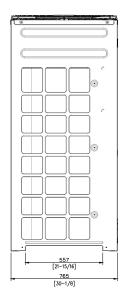


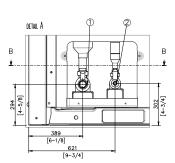
| AM140AXVGGH/EU | AM160AXVGGH/EU | AM180AXVGGH/EU | AM200AXVGGH/EU | AM220AXVGGH/EU | AM240AXVGGH/EU | AM260AXVGGH/EU |
|-------------------------|-------------------------|-------------------------|---------------------------------|-------------------------|-------------------------|-------------------------|
| 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 Hz | 3Ф, 4, 380-415 V, 50 Hz | 3Φ, 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 | 13/8 |
| 200 [220] | 200 [220] | 200 [220] | 200 [220] | 200 [220] | 200 [220] | 200 [220] |
| 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| F1, F2 | F1, F2 | F1, F2 | F1, F2 | F1, F2 | F1, F2 | F1, F2 |
| 1 1,1 2 | 1 1,1 4 | | Fluorinated greenhouse gas, GWF | | 11,12 | 11,12 |
| 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 | | -5~50 -25~24 | -5~50 | -5~50 | -25~24 | -5~50 |
| -25~24 | -25~24 | -25~24 | -25~24 | -25~24 | -25~24 | -25~24 |

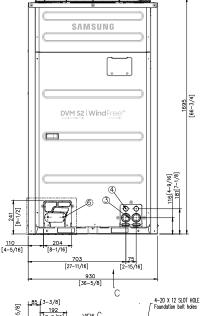
DVM S2 High Efficiency Heat Pump (2-Pipe)

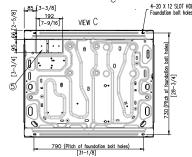
Units: mm [inches] AM080/100/120AXVGGH/EU

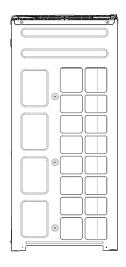


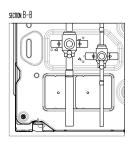












| NO | Name | Description | | |
|----|--|-------------|--|--|
| 1 | Gas Ref.pipe | See NOTE 4. | | |
| 2 | Liquid Ref.pipe | See NOTE 4. | | |
| 3 | Power wiring conduit | Ø44 | | |
| 4 | Communication wiring conduit | Ø34 | | |
| 5 | Knock-out Hole for Ref.Piping (bottom) | | | |
| 6 | Knock-out Hole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

| 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) |

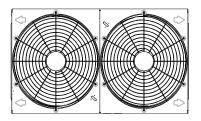
- Note:

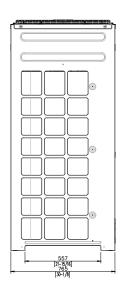
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.

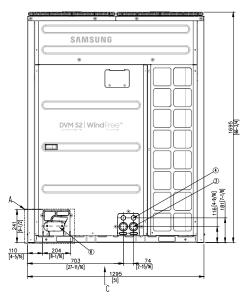
 2. Item 3-6: Knock-out hole
 3. View C indicate the dimension of knock-out hole (bottom)

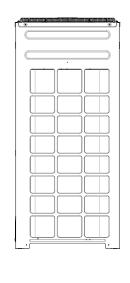
 4. Pipe [Ø, mm(inch)]: Brazing connection

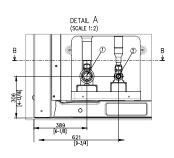
AM140/160/180/200/240/260AXVGGH/EU Units: mm [inches]

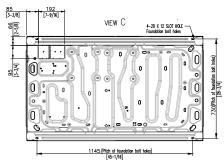


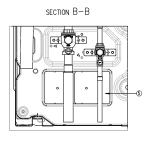












| NO | Name | Description |
|----|--|-------------|
| 1 | Gas Ref.pipe | See NOTE 4. |
| 2 | Liquid Ref.pipe | See NOTE 4. |
| 3 | Power wiring conduit | Ø44 |
| 4 | Communication wiring conduit | Ø34 |
| 5 | Knock-out Hole for Ref.Piping (bottom) | |
| 6 | Knock-out Hole for Ref.Piping (front) | |

| 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) |

- 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(linch]]: Brazing connection

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.







| | | | | Salara Contract | Separate Co. | Separate Sep | |
|--------------------------------|--|----------------|------------|----------------------|--|--|--|
| | 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 | |
| Fan | Type & Discharge direction | | - | Propeller | Propeller | Propeller | |
| | | | - | Horizontal | Horizontal | Horizontal | |
| | Number of Fans | | ea | 2 | 2 | 2 | |
| | Airflow Rate | (H/M/L) | m³/min | 100 | 100 | 100 | |
| | | | l/s | 1,667 | 1,667 | 1,667 | |
| | External Static Pressure | Max. | mmAq | 3 | 3 | 3 | |
| | | | Pa | 29.4 | 29.4 | 29.4 | |
| Fan 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) Level difference (IDU-ODU) | Max | m | 40 | 40 | 40 | |
| Wiring Connections | Communication | Max Min. | m m | 0.75 | 50 0.75 | 0.75 | |
| wiring connections | Communication | | - | | | | |
| Refrigerant | Туре | Remark | - | F1, F2 | F1, F2 A (Fluorinated greenhouse gas, GWP=2 | F1, F2 | |
| Kenigerani | Factory Charging | | kg | 3.2 | 3.2 | 3.3 | |
| | . accory charging | | kg / tCO₂e | 6.68 | 6.68 | 6.89 | |
| Sound | Sound Pressure ² (Cooling) | | dB(A) | 51 | 52 | 53 | |
| 230.10 | Sound Pressure ² (Heating) | | dB(A) | 55 | 55 | 55 | |
| | Sound Power | | dB(A) | 68 | 69 | 70 | |
| External Dimensions | Net Weight | | kg | 97 | 97 | 100 | |
| 2 | 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 | |
| Temperature Range | Heating | | °C | -25.0~26.0 | -25.0~26.0 | -25.0-26.0 | |
| | • | | - | | | | |







| AM040BXMDGR/EU | AM050BXMDGR/EU | AM060BXMDGR/EU |
|----------------------|---|----------------------|
| 3Ф, 380~415 V, 50 Hz | 3Ф, 380~415 V, 50 Hz | 3Ф, 380~415 V, 50 Hz |
| 4 | 5 | 6 |
| 12.1 | 14.0 | 15.5 |
| 12.1 | 14.0 | 15.5 |
| 3.87 | 5 | 5.74 |
| | 3.83 | 4.43 |
| 3.04 | | |
| 5.9 | 7.6 | 8.7 |
| 4.6 | 5.8 | 6.7 |
| 16.1 | 16.1 | 16.1 |
| 20 | 20 | 20 |
| 3.13 | 2.8 | 2.7 |
| 3.98 | 3.66 | 3.5 |
| 7.9 | 7.4 | 7.75 |
| 4.65 | 4.65 | 4.9 |
| Twin BLDC Rotary | Twin BLDC Rotary | Twin BLDC Rotary |
| 4.04 x 1 | 4.04 x 1 | 4.04 x 1 |
| PVE | PVE | PVE |
| 1,700 | 1,700 | 1,700 |
| Propeller | Propeller | Propeller |
| Horizontal | Horizontal | Horizontal |
| 2 | 2 | 2 |
| 100 | 100 | 100 |
| 1,667 | 1,667 | 1,667 |
| 3 | 3 | 3 |
| 29.4 | 29.4 | 29.4 |
| BLDC Motor | BLDC Motor | BLDC Motor |
| 125.0 x 2 | 125.0 x 2 | 125.0 x 2 |
| 9.52 | 9.52 | 9.52 |
| 3/8 | 3/8 | 3/8 |
| 15.88 | 15.88 | 15.88 |
| 5/8 | 5/8 | 5/8 |
| 15.88 | 15.88 | 15.88 |
| 5/8 | 5/8 | 5/8 |
| 150 (75) | 150 (75) | 150 (75) |
| 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 |
| | P I, F2 OA (Fluorinated greenhouse gas, GWP=2, | |
| 3.2 | 3.2 | 3.3 |
| | | |
| 6.68 | 6.68 | 6.89 |
| 51 | 52 | 53 |
| 55 | 55 | 55 |
| 68 | 69 | 70 |
| 95 | 95 | 98 |
| 940 x 1,210 x 330 | 940 x 1,210 x 330 | 940 x 1,210 x 330 |
| -5.0~48.0 | -5.0~48.0 | -5.0~48.0 |
| -25.0~26.0 | -25.0~26.0 | -25.0~26.0 |
| | | |

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

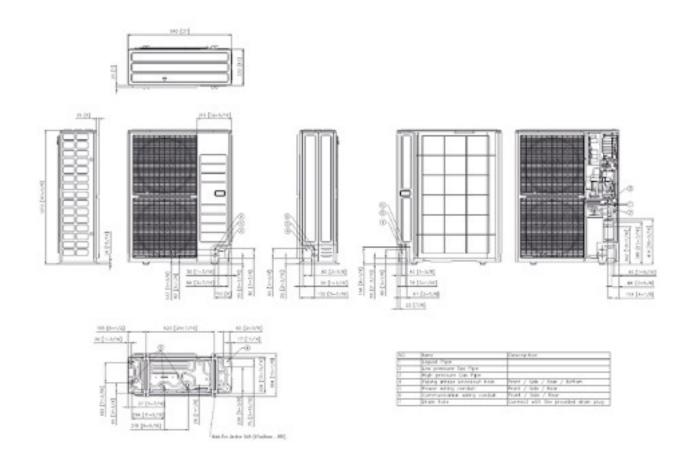
Heating: Indoor temperature: 20 °C DB, 15 °C WB,
Outdoor temperature: 7 °C DB, 6 °C WB

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

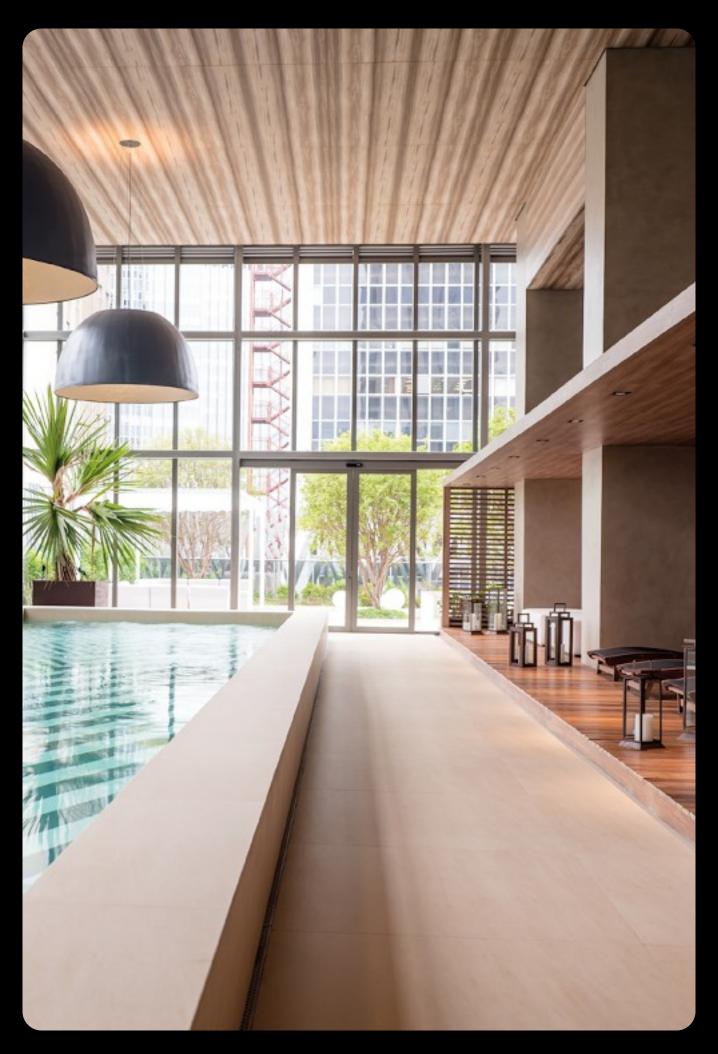
Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates. Sound Power: ODU and IDU operation mode is "Cooling" and hydro unit is "Heating".

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

AM040BXMDER/EU, AM050BXMDER/EU, AM060BXMDER/EU



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

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







| | | | | - | - | | |
|--------------------------------|---|-------------------|-------------|-------------------------|---------------------------------------|-------------------------|--|
| | 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 | |
| Mode | | | - | HEAT RECOVERY | HEAT RECOVERY | HEAT RECOVERY | |
| C M | HP | | HP | 8 | 10 | 12 | |
| | Capacity | Cooling | kW | 22.4 | 28.0 | 33.6 | |
| | | Heating | kW | 22.4 | 28.0 | 33.6 | |
| | Maximum number of connectable indoor units | | ea | 14 | 18 | 21 | |
| | Total capacity of the connected indoor units | Min. | kW | 11.2 | 14.0 | 16.8 | |
| | | Max. | kW | 29.1 | 36.4 | 43.7 | |
| Power | Current Input | Cooling | Α | 11.44 | 15.97 | 19.25 | |
| | | Heating | Α | 9.09 | 11.41 | 14.37 | |
| | Current | Minimum SSC value | MVA | 3.0 | 3.4 | 4.0 | |
| | | MCA | Α | 18.0 | 21.1 | 25.0 | |
| | | MFA | Α | 25 | 32 | 32 | |
| Energy Efficiency ¹ | SEER | | W/W | 7.2 | 6.9 | 6.9 | |
| | SCOP | | W/W | 4.5 | 4.4 | 4.56 | |
| | ηs.c | | % | 285 | 273 | 273 | |
| | ηs.h | | % | 177 | 173 | 179.4 | |
| Compressor | Output | | - | 4.39 x 1 | 6.67 x 1 | 6.67 x 1 | |
| | Oil | Туре | - | PVE | PVE | PVE | |
| | | Initial Charge | cc x n | 900 x1 | 1,100 x 1 | 1,100 x 1 | |
| Fan | Туре | | - | Propeller | Propeller | Propeller | |
| | Discharge direction | | - | Тор | Тор | Тор | |
| | Number of Fans | | ea | 1 | 1 | 1 | |
| | Airflow Rate | | m³/min | 164 | 181 | 196 | |
| | | | l/s | 2,738 | 3,019 | 3,260 | |
| | External Static Pressure | Max. | mmAq | 11 | 11 | 11 | |
| | | | Pa | 110 | 110 | 110 | |
| Fan Motor | Туре | | - | BLDC Motor | BLDC Motor | BLDC Motor | |
| | Output | | Wxn | 630 x 1 | 630 x 1 | 630 x 1 | |
| Piping Connections | Liquid Pipe | | ø, mm | 9.52 | 9.52 | 12.70 | |
| | | | ø, inch | 3/8 | 3/8 | 1/2 | |
| | Gas Pipe | | ø, mm | 19.05 | 22.22 | 28.58 | |
| | | | ø, inch | 3/4 | 7/8 | 11/8 | |
| | High Pressure Gas Pipe (HR Only) | | ø, mm | 15.88 | 19.05 | 19.05 | |
| | | | ø, inch | 5/8 | 3/4 | 3/4 | |
| | Piping length (ODU-IDU) ³ | Max. (Equiv.) | m | 200 [220] | 200 [220] | 200 [220] | |
| | Piping length (1st Branch - IDU) ³ | Max. | m | 90 | 90 | 90 | |
| | Total piping length (System) | Max. | m | 1,000 | 1,000 | 1,000 | |
| | Level Difference (ODU in highest position) ³ | Max. | m | 110 | 110 | 110 | |
| | Level Difference (IDU in highest position) ³ | Max. | m | 110 | 110 | 110 | |
| | Level Difference (IDU-IDU) ³ | Max. | m | 50 | 50 | 50 | |
| Wiring Connections | Transmission Cable | | mm² | 0.75 | 0.75 | 0.75 | |
| | Remark | | - | F1, F2 | F1, F2 | F1, F2 | |
| Refrigerant | Туре | | - | R410 | A (Fluorinated greenhouse gas, GWP=2, | 088) | |
| | 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 | | dB(A) | 75 | 78 | 81 | |
| External Dimensions | Net Weight | | kg | 199 | 211 | 211 | |
| | Net Dimensions (W x H x D) | | mm | 930 x 1,695 x 765 | 930 x 1,695 x 765 | 930 x 1,695 x 765 | |
| Operating | Cooling | | °C | -5~50 | -5~50 | -5~50 | |
| Temperature Range | 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
- Sound pressure level is batined 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. Sound Power: ODU and IDU operation mode is "Cooling" and hydro unit is "Heating".















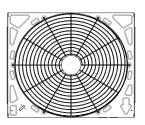


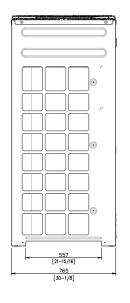


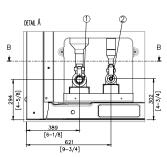
| AM140AXVGGR/EU | AM160AXVGGR/EU | AM180AXVGGR/EU | AM200AXVGGR/EU | AM220AXVGGR/EU | AM240AXVGGR/EU | AM260AXVGGR/EU |
|-----------------------------|-------------------------|-------------------------|---------------------------------|-------------------------|----------------------------|----------------------------|
| 3Ф, 4, 380-415 V, 50 Hz | 3Ф, 4, 380–415 V, 50 Hz | 3Ф, 4, 380–415 V, 50 Hz | 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 1 3/8 | 34.92 13/8 |
| 11/8 | 11/8 | 11/8 | 11/8 | 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 |
| • | • | | Fluorinated greenhouse gas, GWF | | • | • |
| 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 | 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 |
| | | | | | | |

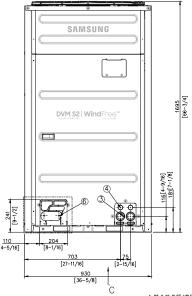
DVM S2 High EER Heat Recovery (3-Pipe)

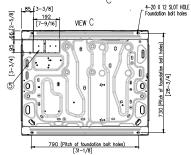
AM080/100/120AXVGGR/EU Units: mm [inches]

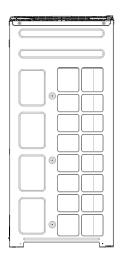


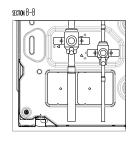












| NO | Name | Description |
|----|--|-------------|
| 1 | Low Pressure Gas Ref.pipe | See NOTE 4. |
| 2 | High Pressure Ref.pipe | See NOTE 4. |
| 3 | Liquid Ref.pipe | See NOTE 4. |
| 4 | Power wiring conduit | Ø44 |
| 5 | Communication wiring conduit | Ø34 |
| 6 | Knock-out Hole for Ref.Piping (bottom)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

| 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) |

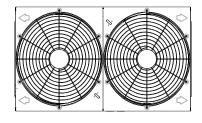
- Note:

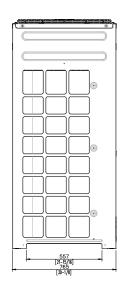
 1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.

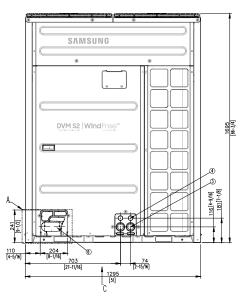
 2. Item 3-7: Knock-out hole

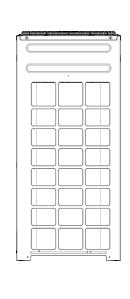
 3. View C indicate the dimension of knock-out hole (bottom)

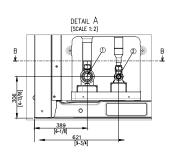
 4. Pipe [Ø, mm(inch)]: Brazing connection

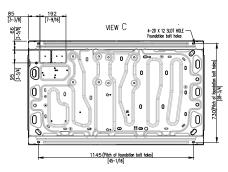


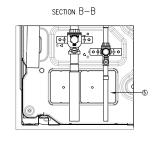












| NO | Name | Description |
|----|--|-------------|
| 1 | Low Pressure Gas Ref.pipe | See NOTE 4. |
| 2 | High Pressure Ref.pipe | See NOTE 4. |
| 3 | Liquid Ref.pipe | See NOTE 4. |
| 4 | Power wiring conduit | Ø44 |
| 5 | Communication wiring conduit | |
| 6 | Knock-out Hole for Ref.Piping (bottom)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

| 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) |

- 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

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 | | | | Φ, #, V, Hz | 3Ф, 4, 380-415 V, 50/60 Hz | 3Ф, 4, 380-415 V, 50/60 Hz | 3Ф, 4, 380-415 V, 50/60 Hz | |
| Performance | НР | | | HP | 8 | 10 | 12 | |
| | Capacity (Nominal) | Cooling | | kW | 22.4 | 28.0 | 33.6 | |
| | (itoiiiiiat) | Heating | | kW | 25.2 | 31.5 | 37.8 | |
| | Maximum number | of connectable indoor units | | ea | 14 | 18 | 22 | |
| | Total capacity of the connected | Min. | | kW | 11.2 | 14.0 | 16.8 | |
| | indoor units | Max. | | kW | 29.1 | 36.4 | 43.7 | |
| Power | Power Input (Nominal) | Cooling | | kW | 3.67 | 4.87 | 6.00 | |
| | (itoiiiiiat) | Heating | | kW | 3.97 | 5.04 | 6.25 | |
| | Current Input (Nominal) | Cooling | | Α | 5.9 | 8.1 | 9.6 | |
| | (Nonlinat) | Heating | | Α | 6.4 | 8.4 | 10.0 | |
| | Current | Minimum SSC value | | MVA | 3.9 | 3.9 | 4.8 | |
| | | MCA | | Α | 16.1 | 16.1 | 20.0 | |
| | | MFA | | Α | 20 | 20 | 25 | |
| COP1 | Nominal Cooling | | | W/W | 6.10 | 5.75 | 5,60 | |
| | Nominal Heating | | | W/W | 6.35 | 6.25 | 6.05 | |
| Compressor | Туре | | | - | Inverter Scroll | Inverter Scroll | Inverter Scroll | |
| | Output | | kW × n | 4.96 x 1 | 4.96 x 1 | 6.13 x 1 | | |
| | Oil | Туре | | - | PVE | PVE | PVE | |
| | | Initial Charge | | сс | 3,900 | 3,900 | 3,900 | |
| 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 Gas Pipe | | ø, mm | 9.52 | 9.52 | 12.70 | | |
| | | | ø, inch | 3/8 | 3/8 | 1/2 | | |
| | | | 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 length | System | Actual | m | 500 | 500 | 500 | |
| | Level difference | Outdoor-Indoor | Outdoor unit in highest position | m | 50 | 50 | 50 | |
| | | | Indoor unit in highest position | m | 40 | 40 | 40 | |
| | | Indoor-Indoor | Max. | m | 50 | 50 | 50 | |
| Wiring Connections | Communication | 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) | |
| | Factory Charging | | | kg | 5.5 | 5.8 | 6.0 | |
| | | | | tCO₂e | 11.48 | 12.11 | 12.53 | |
| Sound | Sound Pressure ² | | Cooling | dB(A) | 48 | 48 | 50 | |
| | | | Heating | dB(A) | 51 | 51 | 52 | |
| | Sound Power | | | dB(A) | 70 | 70 | 70 | |
| External Dimensions | Net Weight | | | kg | 160.0 | 160.0 | 160.0 | |
| | Net Dimensions (V | V x H x D) | | mm | 770 x 1,000 x 545 | 770 x 1,000 x 545 | 770 x 1,000 x 545 | |
| Operating Temperature Range | Cooling | | | °C | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | |
| peracare numbe | Heating | | | °C | 10.0~45.0 | 10.0~45.0 | 10.0~45.0 | |
| | | | | | | | | |





| AM200MXWANR/EU | AM300KXWANR/EU |
|----------------------------|-------------------------------|
| 3Ф, 4, 380–415 V, 50/60 Hz | 3Ф, 4, 380-415 V, 50/60 Hz |
| 3W, 4, 380–413 V, 30/60 H2 | 30 30, 4, 380–413 V, 30/60 H2 |
| 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 4 200 |
| 6,200 | 6,200 |
| Plate Heat Exchanger | Plate Heat Exchanger |
| PT11/4 | PT 2 |
| 54 | 50 |
| 190 | 285 |
| 1.96 | 1.96 |
| 15.88 | 19.05 |
| 5/8 | 3/4 |
| 28.58 | 34.92 |
| 11/8 | 13/8 |
| 28.58 | 28.58 |
| 11/8 | 11/8 |
| 170 (190) | 170 (190) |
| 90 | 90 |
| 500 | 500 |
| 50 | 50 |
| 40 | 40 |
| 50 | 50 |
| 0.75 | 0.75 |
| F1, F2 | F1, F2 |
| R410A (Fluorinated gre | enhouse gas, GWP=2,088) |
| 9.8 | 11.0 |
| 20.46 | 22.96 |
| 51 | 55 |
| 52 | 58 |
| 73 | 75 |
| 240.0 | 280.0 |
| 1,100 x 1,000 x 545 | 1,100 x 1,000 x 545 |
| 10.0~45.0 | 10.0~45.0 |
| 10.0~45.0 | 10.0~45.0 |

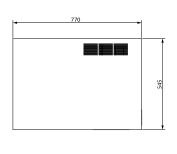
- Performances are based on the following test conditions:

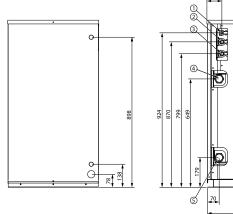
 Cooling: Indoor temperature: 27 °C DB, 19 °C WB,
 Inlet water temperature: 30 °C
 Heating: Indoor temperature: 20 °C DB, 15 °C WB,
 Inlet water temperature: 20 °C
 Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

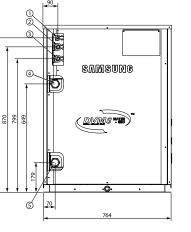
- ² Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates. Sound Power: ODU and IDU operation mode is "Cooling" and hydro unit is "Heating".

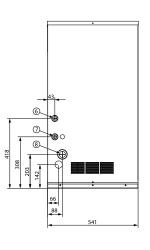
DVM S Water

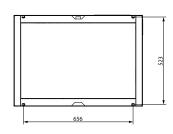
AM080/100/120MXWANR/EU Units: mm [inches





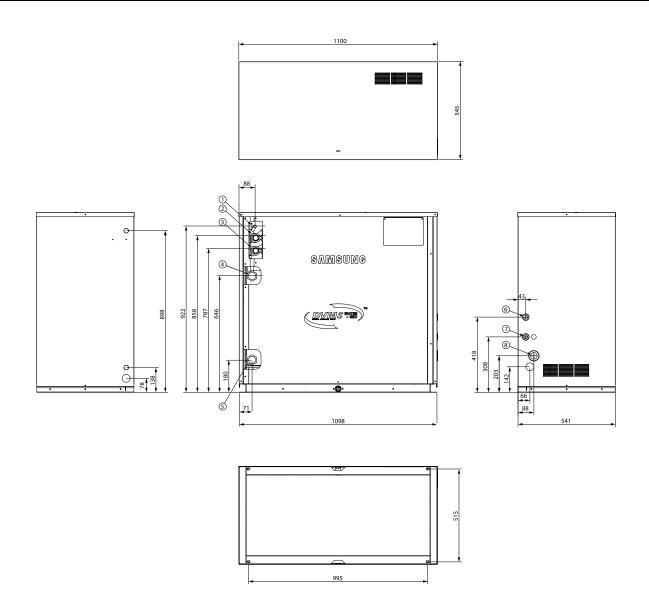






| NO | Name | Description |
|----|-------------------------------|-----------------|
| | | |
| 1 | Liquid Ref. pipe | ø19.05 (3/4) |
| 2 | High Pressure Gas Ref. pipe | ø28.58 (11/8) |
| 3 | Low Pressure Gas Ref. pipe | ø 34.92 (1 3/8) |
| 4 | Water outlet pipe | PT 2 |
| 5 | Water inlet pipe | PT 2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

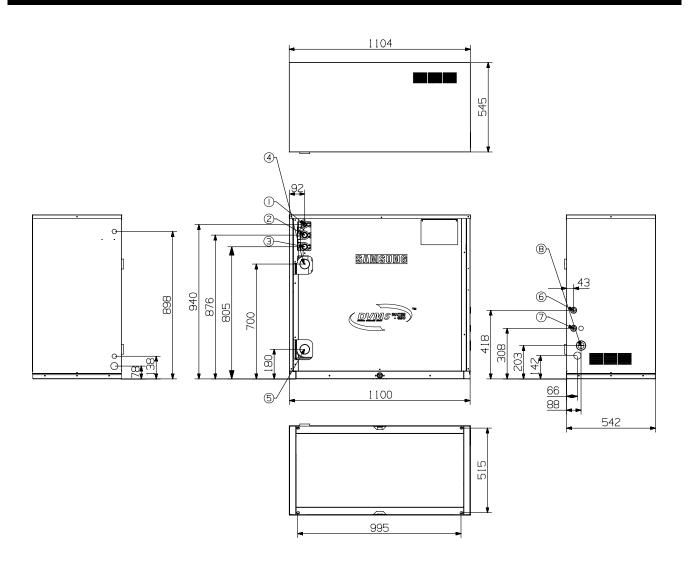
AM200MXWANR/EU Units: mm [inches]



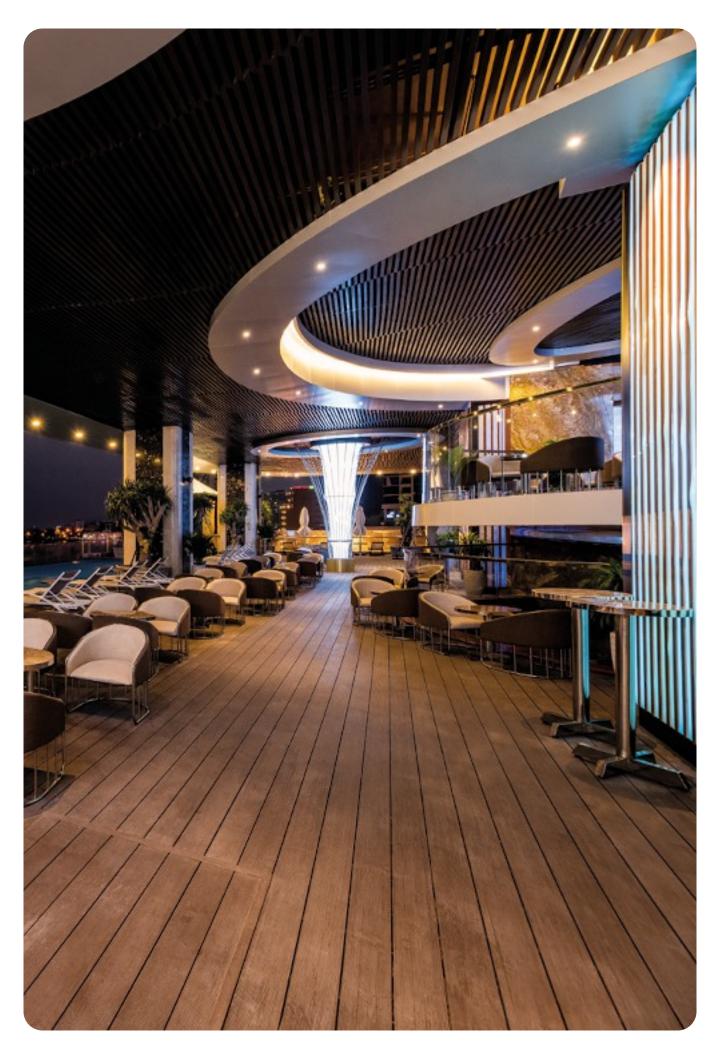
| NO | Name | Description |
|----|-------------------------------|---------------|
| 1 | Liquid Ref. pipe | 15.88 (5/8) |
| 2 | High Pressure Gas Ref. pipe | ø28.58 (11/8) |
| 3 | Low Pressure Gas Ref. pipe | ø28.58 (11/8) |
| 4 | Water outlet pipe | PT11/4 |
| 5 | Water inlet pipe | PT11/4 |
| 6 | Communication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

DVM S Water

AM300MXWANR/EU Units: mm [inches]



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



- 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).







| | N | lodel | | AM015NNNDEH/EU | AM022NNNDEH/EU | AM028NNNDEH/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 | 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 | Α | 0.17 | 0.17 | 0.17 | |
| | | Heating | Α | 0.17 | 0.17 | 0.17 | |
| | Current | MCA | Α | 0.2 | 0.2 | 0.2 | |
| | | MFA | Α | 15 | 15 | 15 | |
| Fan | Туре | | - | Turbo Fan | Turbo Fan | Turbo Fan | |
| | Number of Fans | | ea | 1 | 1 | 1 | |
| | Airflow Rate | H/M/L | m³/min | 8.2/7.0/6.3 | 9.0/7.7/6.5 | 10.0/8.5/7.5 | |
| | | | l/s | 137/117/105 | 150/128/108 | 167/142/125 | |
| Fan Motor | Model | | - | BLDC Motor | BLDC Motor | BLDC Motor | |
| | Output x n | | W | 65 x 1 | 65 x 1 | 65 x 1 | |
| Piping Connections | Liquid Pipe | | ø, mm | 6.35 | 6.35 | 6.35 | |
| | | | ø, inch | 1/4 | 1/4 | 1/4 | |
| | Gas Pipe | | ø, mm | 12.7 | 12.7 | 12.7 | |
| | | | ø, inch | 1/2 | 1/2 | 1/2 | |
| | Drain Pipe | | ø, mm | VP25 (OD 32, ID 25) | VP25 (OD 32, ID 25) | VP25 (OD 32, ID 25) | |
| Wiring Connections | Communication | Min. | mm² | 0.75 | 0.75 | 0.75 | |
| | | Remark | - | F1, F2 | F1, F2 | F1, F2 | |
| Refrigerant | Туре | | - | 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) | 30.0/28.0/23.0 | 32.0/29.0/25.0 | 33.0/30.0/26.0 | |
| | Sound Power | Cooling | dB(A) | 46 | 47 | 50 | |
| Dimensions | Net Weight | | kg | 12.0 | 12.0 | 12.0 | |
| | Net Dimensions (W × H × D) | | mm | 575 x 250 x 575 | 575 x 250 x 575 | 575 x 250 x 575 | |
| Panel | Model Name | | - | PC4SUFMAN | PC4SUFMAN | PC4SUFMAN | |
| Drain Pump | Drain Pump | | - | INCLUDED | INCLUDED | INCLUDED | |
| | Max. Lifting Height/Displacer | nent | mm/ litres/h | 750/24 | 750/24 | 750/24 | |

















| Wireless Remote Controller | Simple Type Controller | Touch Controller | Wired Remote Controller | Wi-Fi Kit | External Room Sensor | Panel (Mandatory) | Motion Detect Sensor |
|-------------------------------|------------------------|------------------|----------------------------|-----------|----------------------|-------------------|----------------------|
| AR-EH03E | MWR-SH00N | MWR-SH11N | MWR-WG00*N | MIM-H04EN | MRW-TA | PC4SUFMAN | MCR-SMD |

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.





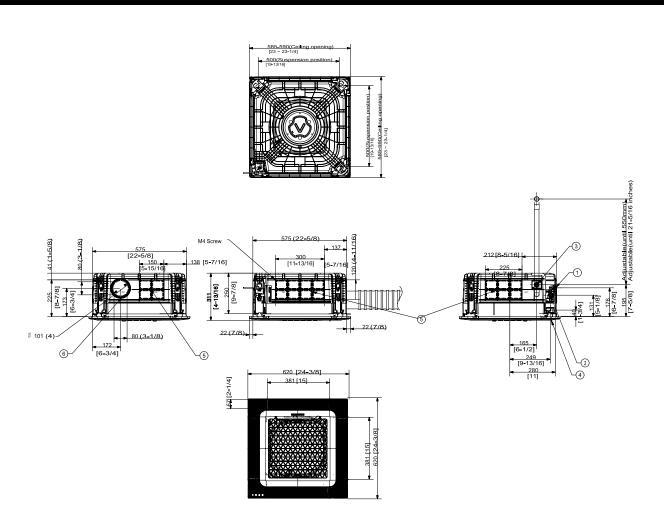




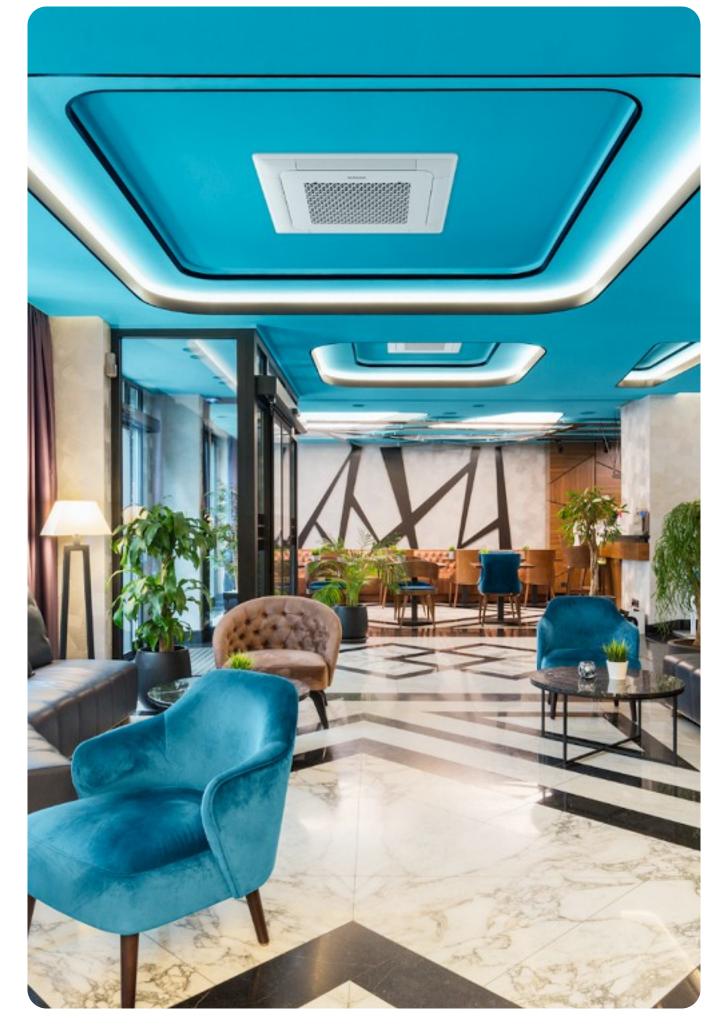
| AM036NNNDEH/EU | AM045NNNDEH/EU | AM056NNNDEH/EU | AM060NNNDEH/EU |
|-------------------------|-------------------------|-------------------------|-------------------------|
| 1Ф, 2, 220–240 V, 50 Hz | 1Ф, 2, 220-240 V, 50 Hz | 1Ф, 2, 220-240 V, 50 Hz | 1Ф, 2, 220–240 V, 50 Hz |
| 3.6 | 4.5 | 5.6 | 6.0 |
| 4.0 | 5.0 | 6.3 | 6.8 |
| 20 | 23 | 28 | 31 |
| 20 | 23 | 28 | 31 |
| 0.19 | 0.22 | 0.27 | 0.30 |
| 0.19 | 0.22 | 0.27 | 0.30 |
| 0.2 | 0.3 | 0.4 | 0.4 |
| 15 | 15 | 15 | 15 |
| Turbo Fan | Turbo Fan | Turbo Fan | Turbo Fan |
| 1 | 1 | 1 | 1 |
| 10.5/9.5/8.0 | 11.5/10.2/9.0 | 13.0/11.0/9.5 | 13.5/12.0/10.2 |
| 175/158/133 | 192/170/150 | 217/183/158 | 225/200/170 |
| BLDC Motor | BLDC Motor | BLDC Motor | BLDC Motor |
| 65 x 1 | 65 x 1 | 65 x 1 | 65 x 1 |
| 6.35 | 6.35 | 6.35 | 6.35 |
| 1/4 | 1/4 | 1/4 | 1/4 |
| 12.7 | 12.7 | 12.7 | 12.7 |
| 1/2 | 1/2 | 1/2 | 1/2 |
| VP25 (OD 32, ID 25) |
| 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 |
| 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 |
| 750/24 | 750/24 | 750/24 | 750/24 |

Specifications WindFree™ 4-Way 600 x 600 Cassette

AM***NNNDEH/EU Units: mm [inches]



| 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 | | |







- 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 Hz |
| Performance | Capacity | Cooling | kW | 2.8 | 3.6 | 4.5 |
| renormance | capacity | Heating | kW | 3.2 | 4.0 | 5.0 |
| Power | PowerInput | Cooling | w | 24 | 26 | 28 |
| | | Heating | w | 24 | 26 | 28 |
| | Current Input | Cooling | A | 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 |
| Fan | Туре | | - | Turbo Fan | Turbo Fan | Turbo Fan |
| | Number of Fans | | ea | 1 | 1 | 1 |
| | Airflow Rate | | m³/min | 14.4/13.4/12.4 | 15.4/14.4/13.4 | 16.3/15.4/14.4 |
| | H/M/L | | l/s | 240/223/207 | 255/240/223 | 272/257/240 |
| Fan Motor | Model | | - | BLDC Motor | BLDC Motor | BLDC Motor |
| | Output x n | | w | 65 x 1 | 65 x 1 | 65 x 1 |
| Piping Connections | Liquid Pipe | | ø, mm | 6.35 | 6.35 | 6.35 |
| | | | ø, inch | 1/4 | 1/4 | 1/4 |
| | Gas Pipe | | ø, mm | 12.70 | 12.70 | 12.70 |
| | | | ø, inch | 1/2 | 1/2 | 1/2 |
| | Drain Pipe | | ø, mm | VP25 (OD 32,ID 25) | VP25 (OD 32,ID 25) | VP25 (OD 32, ID 25) |
| Wiring Connections | Communication | Minimum | mm² | 0.75 | 0.75 | 0.75 |
| | | Remark | - | F1, F2 | F1, F2 | F1, F2 |
| Refrigerant | Туре | | - | 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) | 30.0/28.0/27.0 | 31.0/30.0/28.0 | 33.0/31.0/29.0 |
| | Sound Power | Cooling | dB(A) | 46 | 47 | 49 |
| Dimensions | Net Weight | | kg | 15.0 | 15.0 | 15.0 |
| | Net Dimensions (W × H × D) | | mm | 840 x 204 x 840 | 840 x 204 x 840 | 840 x 204 x 840 |
| Panel | Model Name | | - | PC4NUFMAN | PC4NUFMAN | PC4NUFMAN |
| Drain Pump | Drain Pump | | - | INCLUDED | INCLUDED | INCLUDED |
| | Max. Lifting Height/Displacement | | mm/ litres/h | 750 / 24 | 750 / 24 | 750/24 |



















| Wireless Remote Controller | Simple Type Controller | Touch Controller | Wired Remote Controller | External Room Sensor | Panel (Mandatory) | Air Purification Panel (Optional) | Auto Elevation Panel (Optional) | Motion Detect Sensor |
|-------------------------------|---------------------------|------------------|----------------------------|----------------------|-------------------|--------------------------------------|------------------------------------|----------------------|
| AR-EH03E | MWR-SH00N | MWR-SH11N | MWR-WG00*N | MRW-TA | PC4NUFMAN | 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.











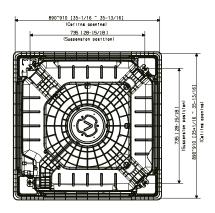


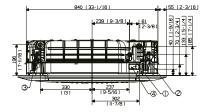
| AM056AN4PKH/EU | AM071AN4PKH/EU | AM090AN4PKH/EU | AM112AN4PKH/EU | AM128AN4PKH/EU | AM140AN4PKH/EU |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1Ф, 2, 220-240 V, 50/60 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 |
| 1 | 1 | 1 | 1 | 1 | 1 |
| 16.4/14.6/12.8 | 18.2/15.4/12.8 | 24.4/19.9/15.5 | 26.6/21.0/15.5 | 35.4/29.2/24.3 | 37.9/31.7/25.5 |
| 273/243/213 | 303/257/213 | 407/332/258 | 43/350/258 | 590/487/405 | 632/528/425 |
| BLDC Motor |
| 65 x 1 | 65 x 1 | 65 x 1 | 65 x 1 | 97 x 1 | 97 x 1 |
| 6.35 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| 1/4 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 |
| 1/2 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| VP25 (OD 32, ID 25) |
| 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| F1, F2 |
| | | R410A (Fluorinated gree | enhouse gas, GWP=2,088) | | |
| EEV INCLUDED |
| 35.0/33.0/29.0 | 37.0/34.0/30.0 | 39.0/35.0/30.0 | 41.0/36.0/30.0 | 42.0/37.0/35.0 | 44.0/39.0/35.0 |
| 51 | 53 | 55 | 59 | 58 | 60 |
| 16.5 | 16.5 | 18.0 | 18.0 | 21.5 | 21.5 |
| 840 x 204 x 840 | 840 x 204 x 840 | 840 x 246 x 840 | 840 x 246 x 840 | 840 x 288 x 840 | 840 x 288 x 840 |
| PC4NUFMAN | PC4NUFMAN | PC4NUFMAN | PC4NUFMAN | PC4NUFMAN | PC4NUFMAN |
| INCLUDED | INCLUDED | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| 750/24 | 750/24 | 750/24 | 750/24 | 750/24 | 750/24 |

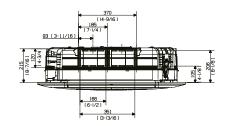
Technical Drawings

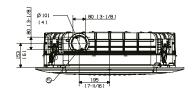
WindFree™ 4-Way Cassette

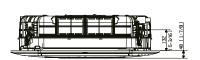
AM028/036/045/056/071AN4PKH/EU Units: mm [inches]

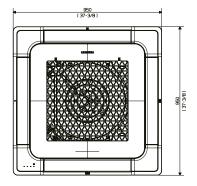






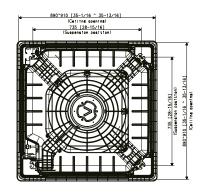


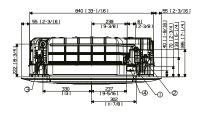


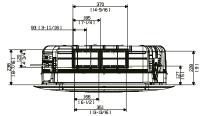


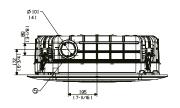
| NO | Name | Description | | | |
|----|--|----------------------------|----------------|--|--|
| | | AM028/036/045/056AN4PKH/EU | AM071AN4PKH/EU | | |
| 1 | Liquid pipe connection | ø6.35 (1/4) | ø9.52 (3/8) | | |
| 2 | Gas pipe connection | ø12.7 (1/2) | ø15.88 (5/8) | | |
| 3 | Drain pipe connection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

AM090/112AN4PKH/EU Units: mm [inches]

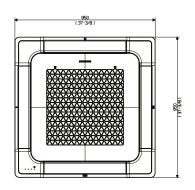










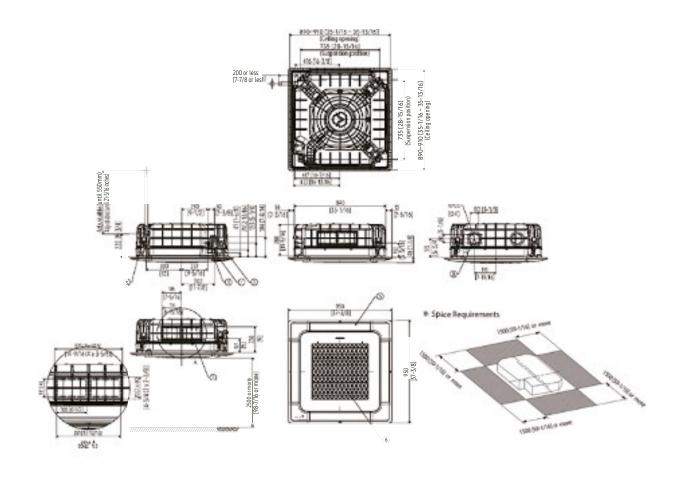


| NO | Name | Description | | |
|----|--|-----------------------|--|--|
| 1 | Liquid pipe connection | ø9.52 (3/8) | | |
| 2 | Gas pipe connection | ø15.88 (5/8) | | |
| 3 | Drain pipe connection | VP25 (OD 32, ID 25) | | |
| 4 | Power supply/communication wiring conduits | | | |
| 5 | Fresh air intake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

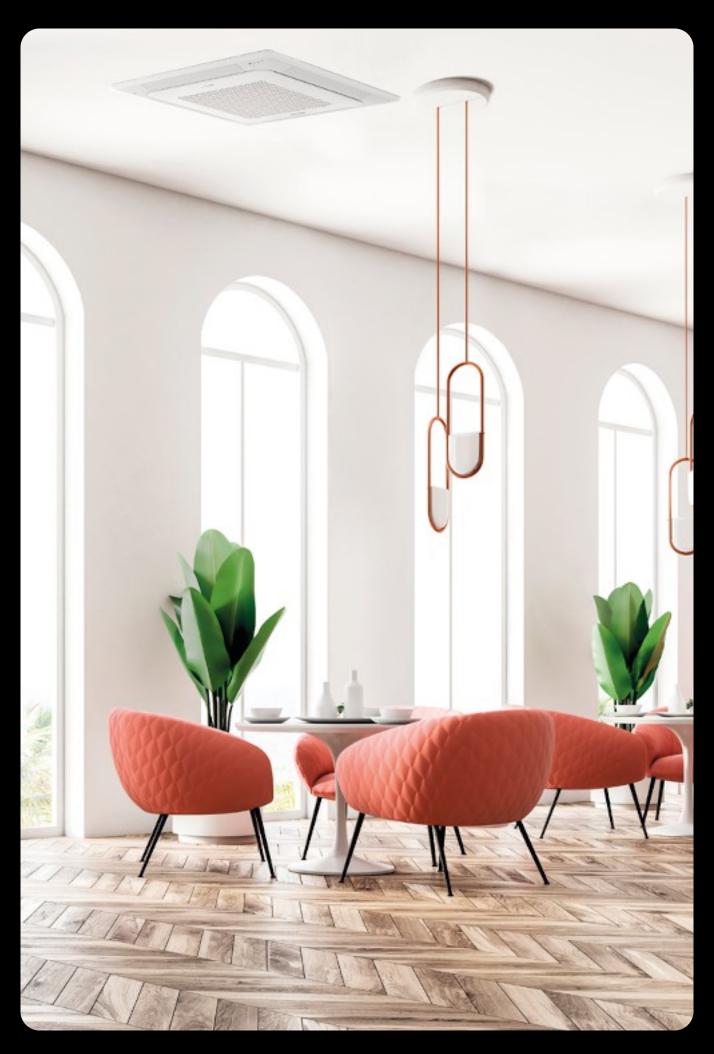
Technical Drawings

WindFree™ 4-Way Cassette

AM128/140AN4PKH/EU
Units: mm [inches



| NO | Name | Description | | |
|----|---|---|--|--|
| 1 | Liquid pipe connection | Ф9.52(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 | | |







- Fast Cooling mode and WindFree™ Cooling mode.
- One-way air supply by means of a 100 mm wide blade.
- Built-in condensation drain pump and humidity sensor.
- Cross-flow fan direct driven by a BLDC motor.
- Can be controlled by Smartphone via Wi-Fi Kit (Optional).
- Optional Air Purification Panel.







| | | | | 1442-111- 214121-111 | 1112-111 | 1112-111- 1112-112 | |
|-----------------------|----------------------------------|---------|------------------|-------------------------|--------------------------------------|-------------------------|--|
| 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 | |
| Fan | 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 Connections | 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) | |
| Wiring Connections | 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 | ,088) | |
| | 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 | |
| Drain pump | | | - | INCLUDED | INCLUDED | INCLUDED | |
| | Max. Lifting Height/Displacement | | mm / litres/h | 750/24 | 750/24 | 750/24 | |

















| Wireless Remote Controller | Simple Type Controller | Touch Controller | Wired Remote Controller | Wi-Fi Kit | Panel (Mandatory) | Air Purification Panel (Optional) | External Room Sensor |
|-------------------------------|------------------------|------------------|----------------------------|-----------|-------------------|--------------------------------------|----------------------|
| AR-EH03E | MWR-SH00N | MWR-SH11N | MWR-WG00*N | MIM-H04EN | PC1*WFMAN | PC1*WCMAN | MRW-TA |

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





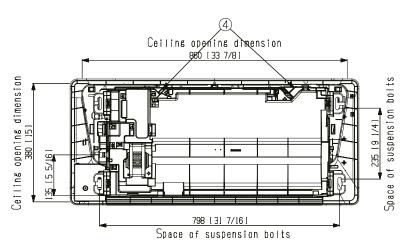


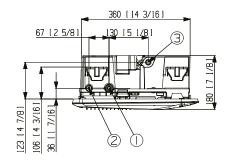


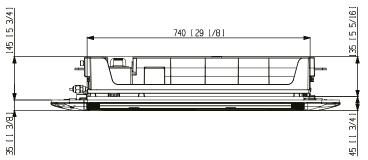
| AM028NN1DKH/EU | AM036NN1DKH/EU | AM056NN1DEH/EU | AM071NN1DEH/EU | |
|-------------------------|-------------------------|-------------------------|-------------------------|--|
| 1Ф, 2, 220-240 V, 50 Hz | |
| 2.8 | 3.6 | 5.6 | 7.1 | |
| 3.2 | 4.0 | 6.3 | 8.0 | |
| 32 | 40 | 55 | 80 | |
| 32 | 40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

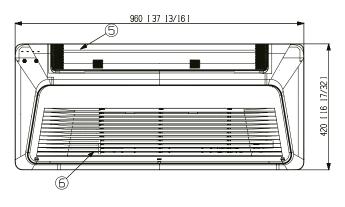
WindFree™ 1-Way Cassette

AM017/022NN1PEH/EU Units: mm [inches]



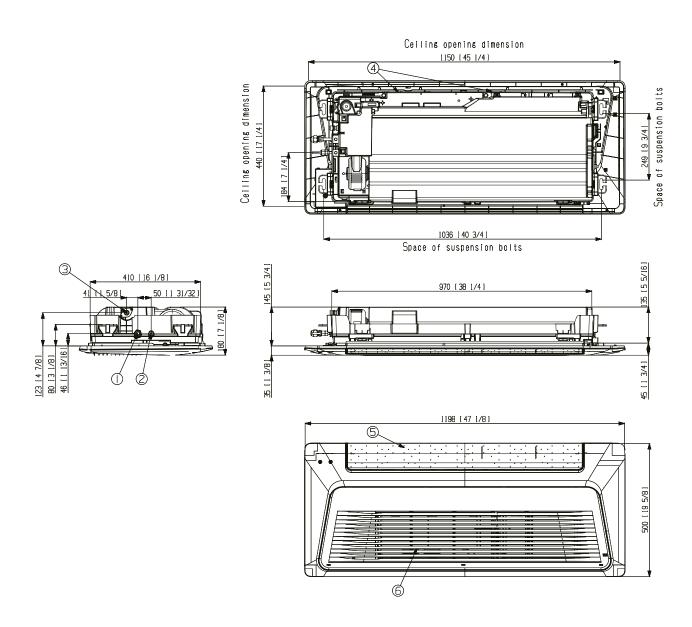






| NO | Name | Description |
|----|---|-------------------|
| 1 | Gas pipe connection | Ø12.7 (1/2") |
| 2 | Liquid pipe connection | Ø6.35 (1/4") |
| 3 | Drain hose connection | VP20 (OD26, ID20) |
| 4 | Power supply/Communication wiring conduit | - |
| 5 | Air outlet louver | - |
| 6 | Air inlet grille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

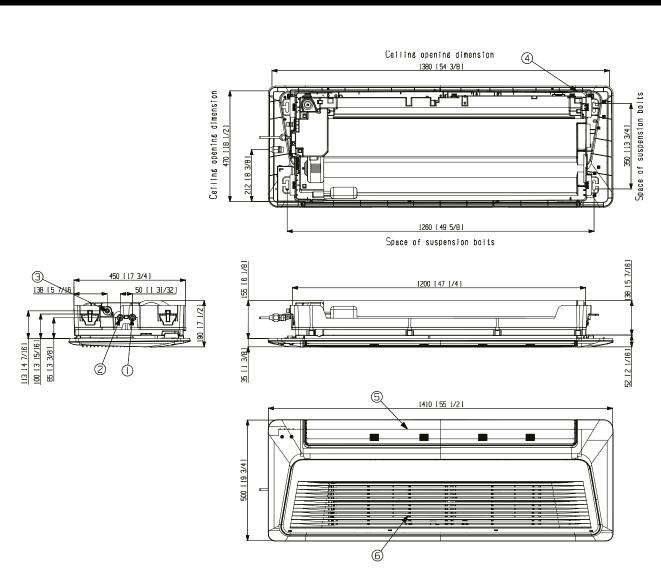
AM022/028/036NN1DKH/EU Units: mm [inches]



| 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

AM056/07INN1DEH/EU Units: mm [inches]



| 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 (OI | D32, ID25) | |
| 4 | Power supply/Communication wiring conduit | | - | |
| 5 | Air outlet louver | | - | |
| 6 | Air inlet grille | | - | |



360 Cassette

- 360 degree air supply.
- Bladeless discharge. Booster fans can be individually controlled, allowing for completely horizontal flow discharge. Coandă effect is created even without ceiling.
- Built-in condensation drain pump.
- 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.
- Circular or square cassette panel. Available in white and black.
- Predisposition of the air inlet to let fresh air in.
- Can be controlled by Smartphone via Wi-Fi Kit (Optional).
- Motion Detector Sensor is optional for square cassette panel.







| Power Support | | Model | | | AM045KN4DEH/EU | AM056KN4DEH/EU | AM071KN4DEH/EU | |
|---|--------------------|-----------------------------|------------|-------------|-------------------------|--|-------------------------|--|
| Power | Power Supply | | | Φ, #, V, Hz | 1Ф, 2, 220-240 V, 50 Hz | 1Φ, 2, 220–240 V, 50 Hz | 1Ф, 2, 220–240 V, 50 Hz | |
| Power Paper | Performance | Capacity (Nominal) | Cooling | kW | 4.5 | 5.6 | 7.1 | |
| Part | | | Heating | kW | 5.0 | 6.3 | 8.0 | |
| Position Positio | Power | Power Input (Nominal) | Cooling | w | 26 | 30 | 34 | |
| Heating Final | | | Heating | w | 26 | 30 | 34 | |
| Fan | | Current Input (Nominal) | Cooling | Α | 0.18 | 0.21 | 0.25 | |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | Heating | Α | 0.18 | 0.21 | 0.25 | |
| Airflow Rate H/M/L (ULL) m³/min 14.50/13.50/12.50 16.00/14.50/13.50 18.00/16.00/14.00 Piping Connections Liquid Pipe 4,mm 6.35 6.35 9.52 Airch 1/4 1/4 1/4 3/8 Piping Connections Airch 1/4 1/4 3/8 Airch 1/4 1/4 1/4 3/8 Piping Connections Airch 1/4 1/4 3/8 Airch 1/4 1/4 1/4 3/8 Airch 1/4 1/4 1/4 3/8 By Pipe | Fan | Motor | Туре | - | Turbo Fan | Turbo Fan | Turbo Fan | |
| Piping Connection Vs 241.67/225.00/208.33 266.67/241.67/225.00 30.00/266.67/233.33 Piping Connection Piping Connect | | | Output x n | w | 65 x 1 | 65 x 1 | 65 x 1 | |
| Piping Connections Processing Figure 1 Liquid Pipe a, inch 6.35 6.35 9.52 Apple 2 a, inch 1/4 1/4 3/8 Be Pipe 2 a, mm 12.70 12.70 15.88 Be Pipe 2 a, mm 12.70 1/2 1/2 5/8 Pied Wiring 2 Power Source Wire 1 mm² 0.75 - 1.50 | | 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 | |
| Part | | | | l/s | 241.67/225.00/208.33 | 266.67/241.67/225.00 | 300.00/266.67/233.33 | |
| Power Source Wire Pow | Piping Connections | · · · | | ø, mm | 6.35 | 6.35 | 9.52 | |
| Power Source Wire Filed Wiring Filed Wiring | | | | ø, inch | 1/4 | 1/4 | 3/8 | |
| Point Pipe 8, mm VP25 (OD 32, ID 25) 1.5 - 2.5 | | Gas Pipe | | ø, mm | 12.70 | 12.70 | 15.88 | |
| Field Wiring Field Wiring Final State (Minimal State (Min | | | | ø, inch | 1/2 | 1/2 | 5/8 | |
| Framission Cable mm² 0.75-1.50 | | Drain Pipe | | ø, mm | VP25 (OD 32, ID 25) | VP25 (OD 32, ID 25) | VP25 (OD 32, ID 25) | |
| Refrigerant Type - R410A (Fluorinated greenhouse gas, GWP=2,088) Control Method - EEV INCLUDED EEV INCLUDED EEV INCLUDED Sound Pressure¹ (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 | Field Wiring | Power Source Wire | | mm² | 1.5-2.5 | 1.5-2.5 | 1.5-2.5 | |
| Control Method - EEV INCLUDED EEV INCLUDED EEV INCLUDED Sound Pressure¹ (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 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 | | Transmission Cable | | mm² | 0.75-1.50 | 0.75-1.50 | 0.75-1.50 | |
| Sound Pressure¹ (H/M/L) dB(A) 33/31/29 34/32/29 36/33/30 Sound Power Cooling dB(A) 50 51 53 Dimension (M keight Power (M keight Power) kg 21.0 21.0 21.0 Net Dimensions (W k H x D) mm 947 x 281 x 947 947 x 281 x 947 947 x 281 x 947 | Refrigerant | Туре | | - | R410A | \ (Fluorinated greenhouse gas, GWP=2,0 | 088) | |
| Sound Power Cooling dB(A) 50 51 53 Dimension (Mx Hx D) kg 21.0 21.0 21.0 21.0 21.0 Net Dimensions (Wx Hx D) mm 947 x 281 x 947 947 x 281 x 947 947 x 281 x 947 | | Control Method | | - | EEV INCLUDED | EEV INCLUDED | EEV INCLUDED | |
| Dimension Net Weight kg 21.0 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 | Sound | Sound Pressure ¹ | (H/M/L) | dB(A) | 33/31/29 | 34/32/29 | 36/33/30 | |
| Net Dimensions (W x H x D) mm 947 x 281 x 947 | | Sound Power | Cooling | dB(A) | 50 | 51 | 53 | |
| | Dimension | Net Weight | | kg | 21.0 | 21.0 | 21.0 | |
| Panel Model Name - PC4NUDMAN PC4NUDMAN PC4NUDMAN PC4NUDMAN | | 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 | |















| Wireless Remote Controller | Simple Type Controller | Touch Controller | Wired Remote Controller | Wi-Fi Kit | External Room Sensor | Panel (Mandatory) |
|----------------------------|------------------------|------------------|----------------------------|-----------|----------------------|-------------------|
| AR-KH03E | MWR-SH00N | MWR-SH11N | MWR-WG00*N | MIM-H04EN | MRW-TA | PC4NUDMAN |

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 |
| | | | |











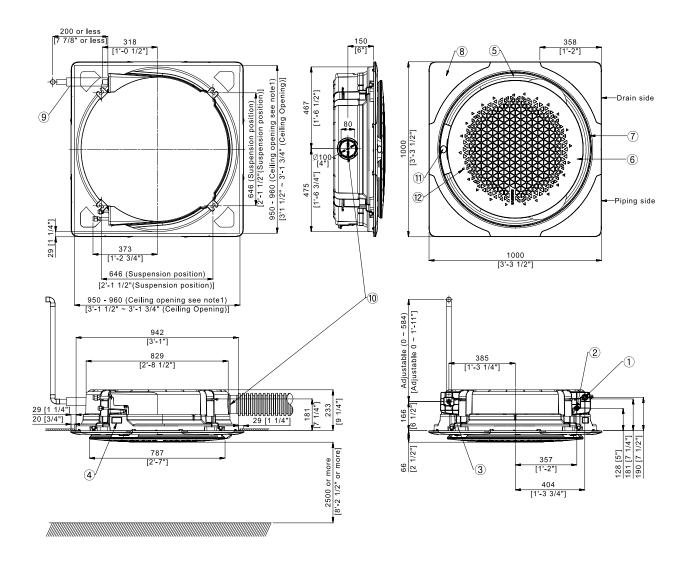


| Panel (Mandatory) | Panel (Mandatory) | Panel (Mandatory) | Air Purification Panel (Optional) | Auto Elevation Panel (Optional) | Motion Detect Sensor for PC4NUDMAN |
|-------------------|-------------------|-------------------|-----------------------------------|------------------------------------|---------------------------------------|
| PC4NUNMAN | PC4NBDMAN | PC4NBNMAN | PC6EUCMAN | PC6EUXMAN | MCR-SME |

360 Cassette (square)

AM045KN4DEH/EU, AM056KN4DEH/EU, AM071KN4DEH/EU, AM090KN4DEH/EU

Units: mm [inches]

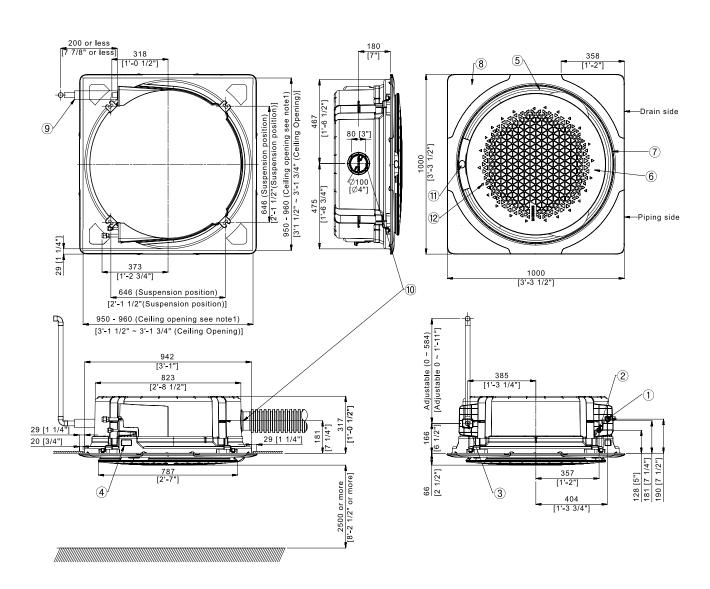


| NO | Name |
|----|--|
| 1 | Refrigerant liquid pipe |
| 2 | Refrigerant gas pipe |
| 3 | Condensate drain |
| 4 | Power supply/communication wiring conduits |
| 5 | Air discharge opening |
| 6 | Air suction grille |
| 7 | Suction rim for booster fan |
| 8 | Corner decoration cover |
| 9 | Drain hose |
| 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 [1 1/4"]. Max ceiling opening: 960 mm [3'1 3/4"]

^{2.} When the conditions exceed 30 °C and RH 80 % in the ceiling or fresh air inducted into the ceiling, additional insulation is required (polythene foam, thickness 10 mm [3/8"] or more)

^{3.} Open type panel model code: PC4NUDMAN



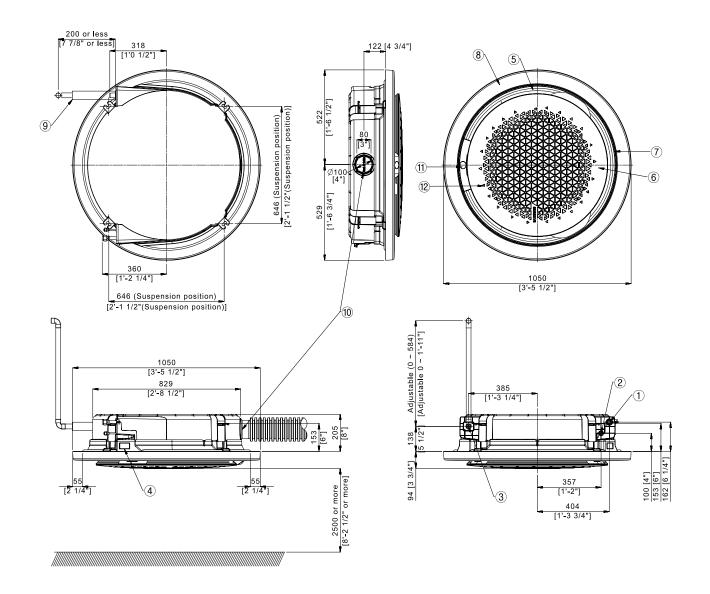
| NO | Name |
|----|--|
| 1 | Refrigerant liquid pipe |
| 2 | Refrigerant gas pipe |
| 3 | Condensate drain |
| 4 | Power supply/communication wiring conduits |
| 5 | Air discharge opening |
| 6 | Air suction grille |
| 7 | Suction rim for booster fan |
| 8 | Corner decoration cover |
| 9 | Drain hose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

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

360 Cassette (circular)

AM045KN4DEH/EU, AM056KN4DEH/EU, AM071KN4DEH/EU, AM090KN4DEH/EU

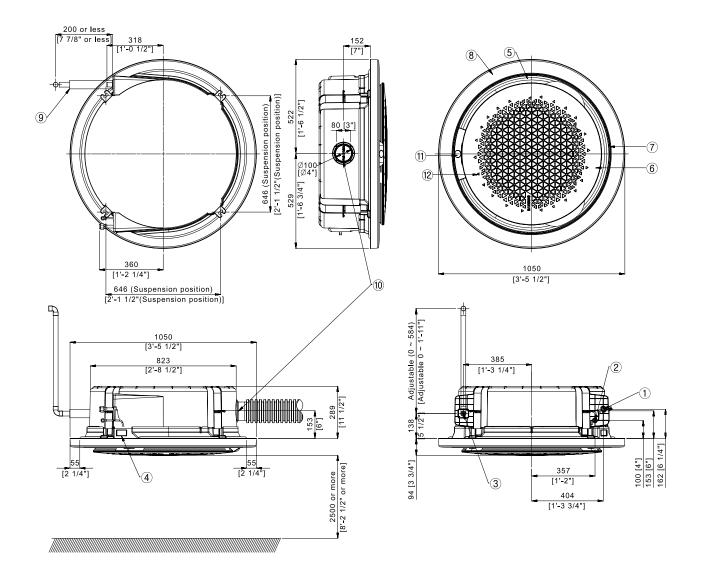
Units: mm [inches]



| 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 | | - | | |

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

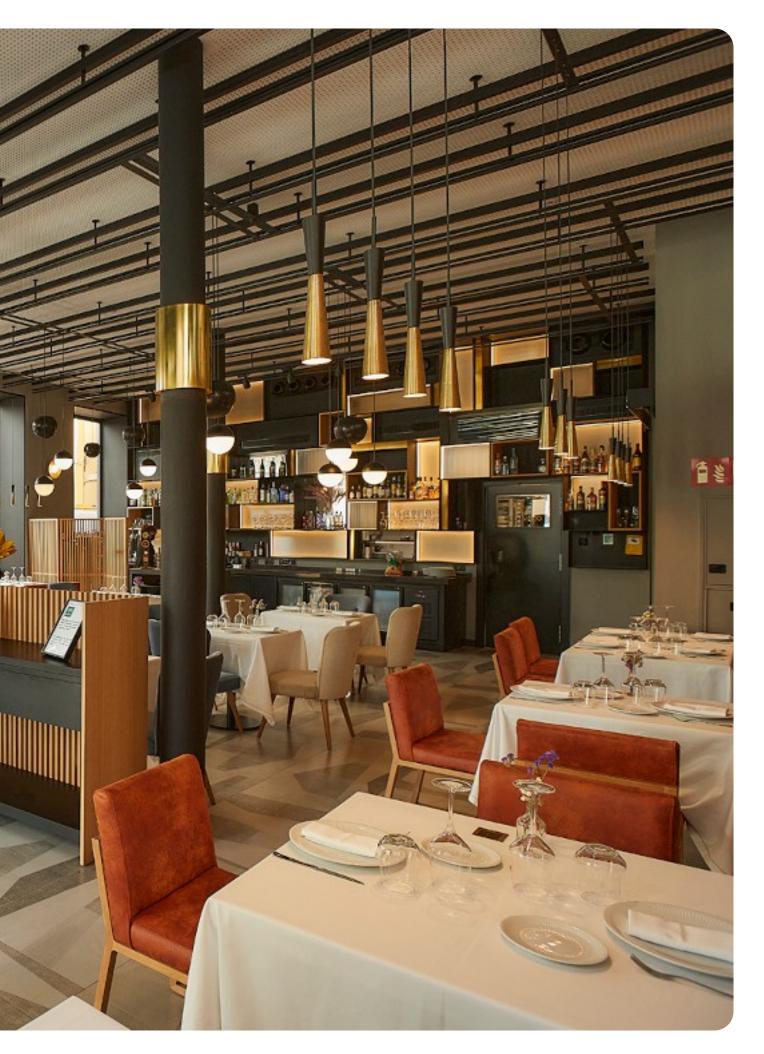


| NO | Name |
|----|--|
| 1 | Refrigerant liquid pipe |
| 2 | Refrigerant gas pipe |
| 3 | Condensate drain |
| 4 | Power supply/communication wiring conduits |
| 5 | Air discharge opening |
| 6 | Air suction grille |
| 7 | Suction rim for booster fan |
| 8 | Corner decoration cover |
| 9 | Drain hose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

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

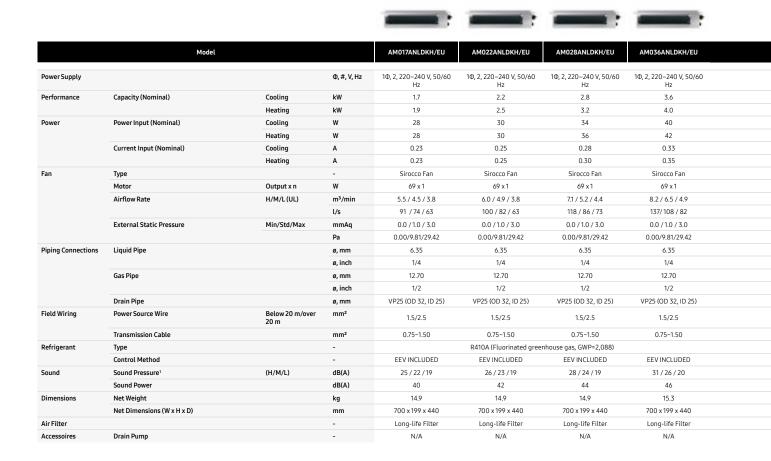
- 1. Make sure the spacing between the ceiling and the cassette is no more than 10 mm [3/8"].
- 2. When the conditions exceed 30 °C and RH 80 % in the ceiling or fresh air inducted into the ceiling, additional insulation is required (polythene foam, thickness 10 mm [3/8*] or more)
- 3. Open type panel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



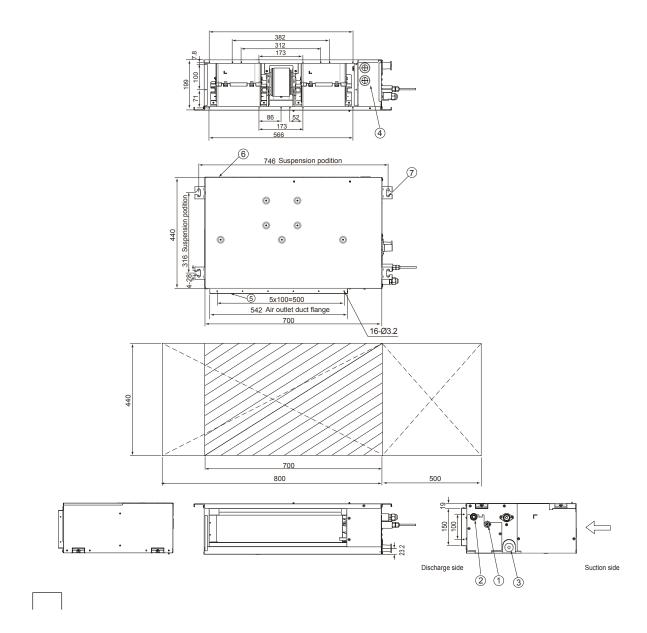


Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment Sound pressure level may differ depending on operation conditions.

| AM045ANLDKH/EU | AM056ANLDKH/EU | AM071ANLDKH/EU | AM090ANLDKH/EU | | |
|----------------------------|----------------------------|----------------------------|----------------------------|--|--|
| 1Ф, 2, 220-240 V, 50/60 Hz | | |
| 4.5 | 5.6 | 7.1 | 9.0 | | |
| 5.0 | 6.3 | 8.0 | 10.0 | | |
| 51 | 73 | 82 | 170 | | |
| 46 | 68 | 77 | 170 | | |
| 0.45 | 0.62 | 0.69 | 0.96 | | |
| 0.41 | 0.58 | 0.65 | 0.96 | | |
| Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | | |
| 84 x 1 | 84 x 1 | 84 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 | | |
| 208/167/125 | 258/208/158 | 300/242/183 | 483/450/417 | | |
| 0.0 / 2.0 / 4.0 | 0.0 / 2.0 / 4.0 | 0.0 / 2.0 / 4.0 | 0.0 / 3.0 / 6.0 | | |
| 0.00/19.61/39.23 | 0.00/19.61/39.23 | 0.00/19.61/39.23 | 0.00/29.42/58.84 | | |
| 6.35 | 6.35 | 9.52 | 9.52 | | |
| 1/4 | 1/4 | 3/8 | 3/8 | | |
| 12.70 | 12.70 | 15.88 | 15.88 | | |
| 1/2 | 1/2 | 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 | | |
| 32 / 28 / 25 | 34 / 30 / 26 | 34 / 30 / 27 | 37 / 36 / 34 | | |
| 47 | 49 | 49 | 66 | | |
| 18.8 | 18.8 | 22.0 | 40.0 | | |
| 700 x 199 x 440 | 900 x 199 x 440 | 1,100 x 199 x 440 | 1,300 x 295 x 690 | | |
| Long-life Filter | Long-life Filter | Long-life Filter | Long-life Filter | | |
| N/A | N/A | N/A | MDP-E075SEE3D | | |
| | | | | | |

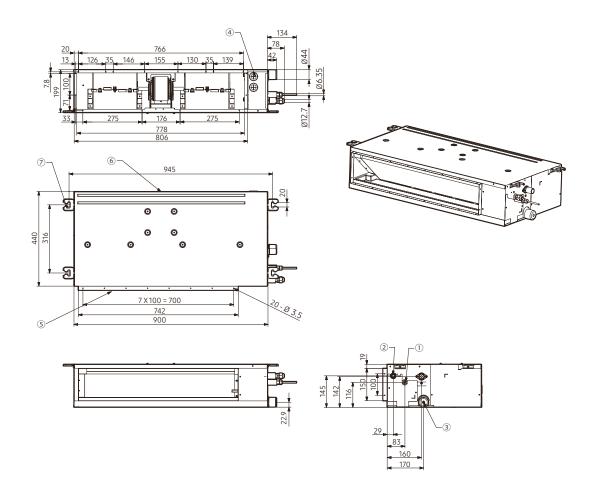
LSP Duct (drain pump excluded)

AM017/022/028/036ANLDKH/EU
Units: mm [inches]



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

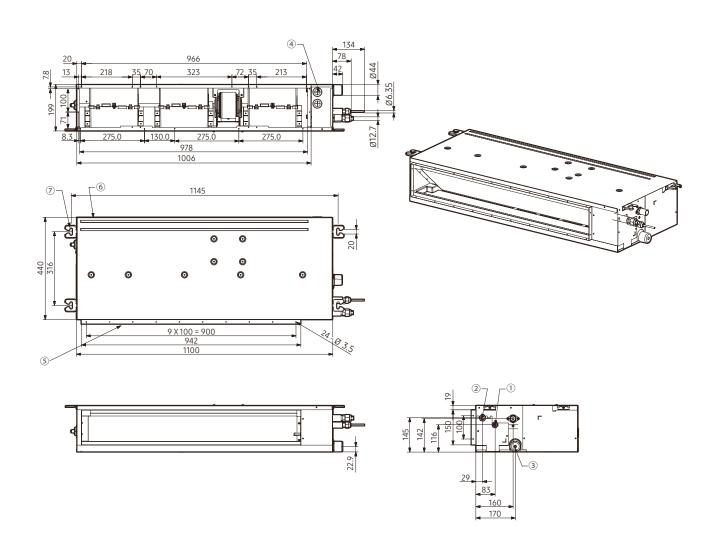
AM045/056ANLDKH/EU Units: mm [inches]



| 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 | - |
| | | |

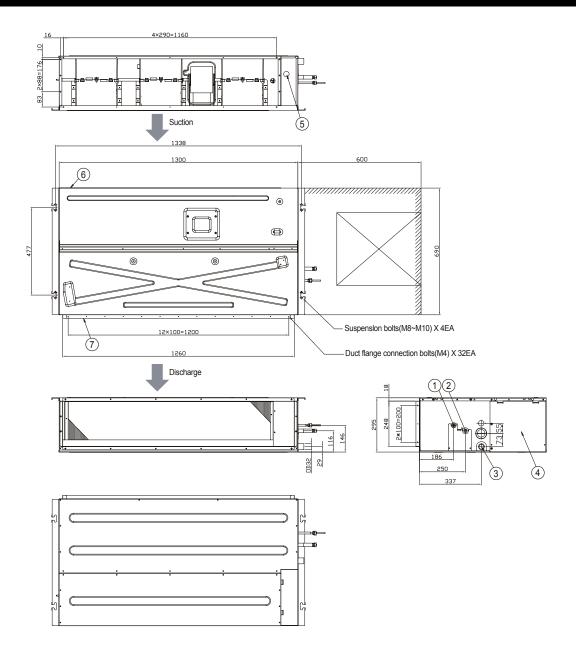
LSP Duct (drain pump excluded)

AM071ANLDKH/EU Units: mm [inches]



| 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 | - |
| | | |

AM090ANLDKH/EU Units: mm [inches]



| 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 | | | Ф, #, V, Hz | 1Ф, 2, 220-240 V, 50 Hz | 1Ф, 2, 220-240 V, 50 Hz | 1Ф, 2, 220–240 V, 50 Hz | 1Ф, 2, 220–240 V, 50 Hz | |
| Performance | Capacity (Nominal) | Cooling | kW | 1.7 | 2.2 | 2.8 | 3.6 | |
| | | Heating | kW | 1.9 | 2.5 | 3.2 | 4.0 | |
| Power | Power Input (Nominal) | Cooling | w | 28 | 30 | 34 | 40 | |
| | | Heating | w | 28 | 30 | 36 | 42 | |
| | Current Input (Nominal) | Cooling | 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 | |







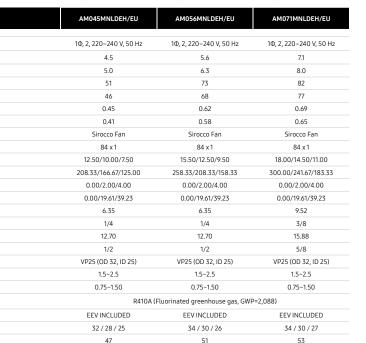






| - | | | | | - |
|----------------------------------|------------------|----------------------------|-----------|----------------------------------|----------------------|
| Wireless Remote Controller | Touch Controller | Wired Remote Controller | Wi-Fi Kit | Wireless Receiver Kit | External Room Sensor |
| AR-EH03E | | | | MRK-A10N | |
| (to be matched with MRK-A10N) | MWR-SH11N | MWR-WG00*N | 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.



18.9

900 x 199 x 440

Long-life Filter

Included

750/24

22.3

1100 x 199 x 440 Long-life Filter

Included

750/24

18.9

900 x 199 x 440

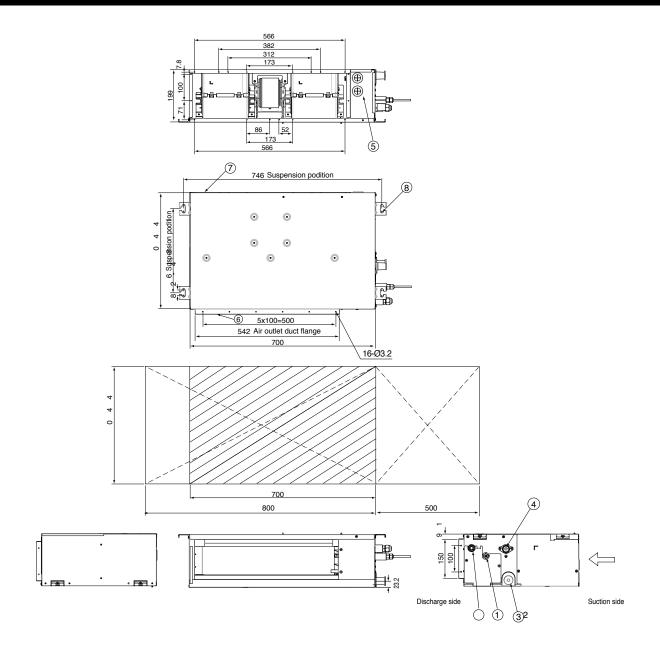
Long-life Filter

Included

750/24

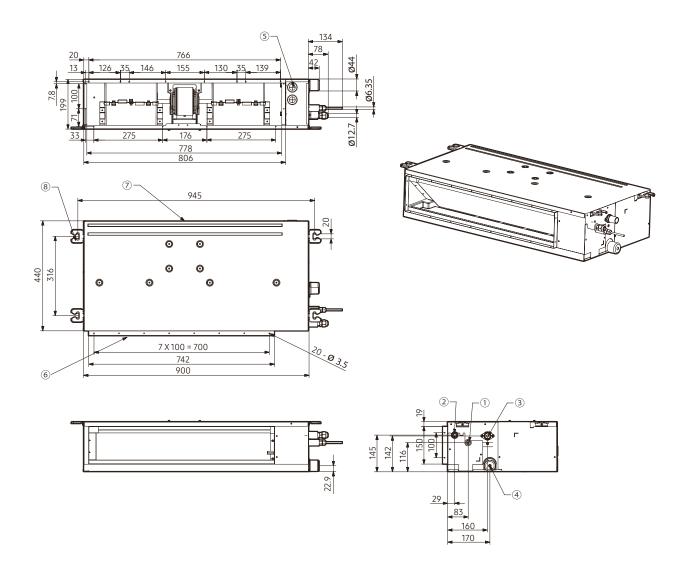
LSP Duct (drain pump included)

AM017/022/028/036KNLDEH/EU Units: mm [inches]



| 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 |

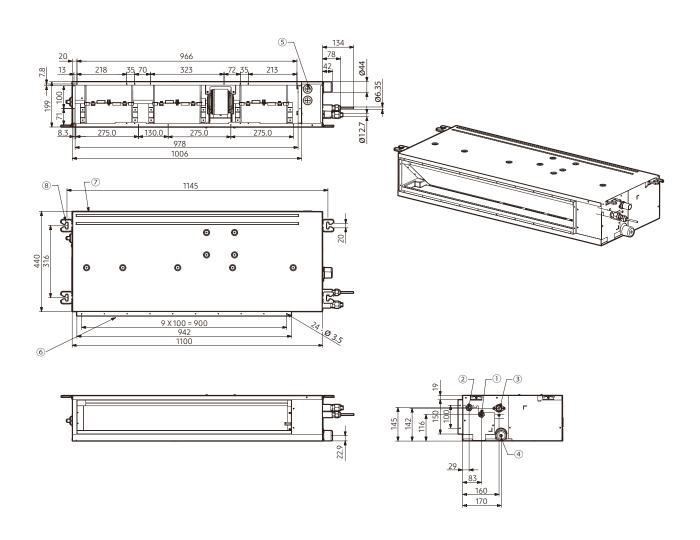
AM045/056MNLDEH/EU Units: mm [inches]



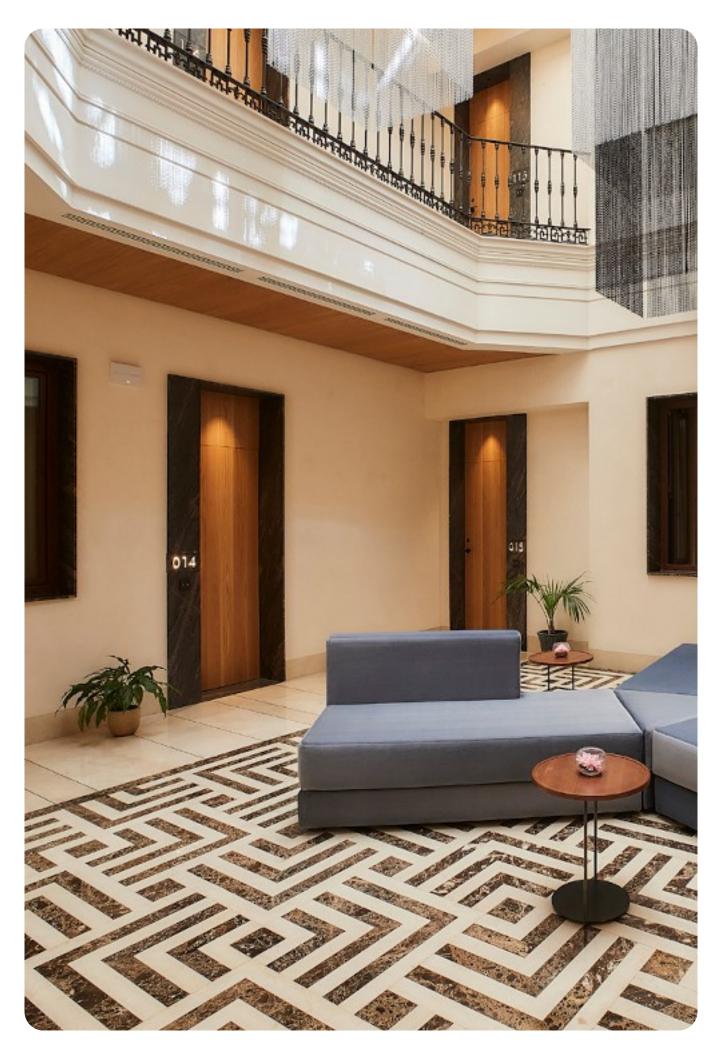
| NO | Name | Description |
|----|-------------------------------|--------------------------------|
| 1 | Refrigerant Liquid Pipe | Ø6.35 [1/4"] Flare Connection |
| 2 | Refrigerant Gas Pipe | Φ12.70 [1/2"] Flare Connection |
| 3 | Condensate Drain | VP25 (OD 32, ID 25) |
| 4 | Condensate Drain (Option) | 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)

AM071MNLDEH/EU Units: mm [inches]



| 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 | - |



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 | AM045ANMPKH/EU |
|--------------------|-----------------------------|---------------------|-------------|----------------------------|--------------------------------|----------------------------|----------------------------|
| | | | | | | | |
| PowerSupply | | | Φ, #, V, Hz | 1Ф, 2, 220~240 V, 50/60 Hz | 1Ф, 2, 220~240 V, 50/60 Hz | 1Ф, 2, 220~240 V, 50/60 Hz | 1Ф, 2, 220~240 V, 50/60 Hz |
| Performance | Capacity (Nominal) | Cooling | kW | 2.2 | 2.8 | 3.6 | 4.5 |
| | | Heating | kW | 2.5 | 3.2 | 4.0 | 5.0 |
| Power | Power Input (Nominal) | Cooling | W | 42 | 42 | 45 | 55 |
| | | Heating | W | 42 | 42 | 45 | 55 |
| | Current Input (Nominal) | Cooling | Α | 0.4 | 0.4 | 0.4 | 0.5 |
| | | Heating | Α | 0.4 | 0.4 | 0.4 | 0.5 |
| | Current Input (Nominal) | MCA | Α | 0.67 | 0.67 | 0.81 | 0.89 |
| | | MFA/MOP | Α | 15 | 15 | 15 | 15 |
| Fan | Туре | | - | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Number of Fans | | ea | 2 | 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 | 14.0 / 11.0 / 8.0 |
| | | | l/s | 170 / 150 / 115 | 170 / 150 /115 | 200 / 158 / 125 | 233 / 183 / 133 |
| | External Pressure | Min/Std/Max | mmAq | 0 / 2.5 / 15 | 0 / 2.5 / 15 | 0 / 2.5 / 15 | 0 / 3 / 15 |
| | | | Pa | 0.00 / 24.52 / 147.10 | 0.00 / 24.52 / 147.10 | 0.00 / 24.52 / 147.10 | 0.00 / 29.42 / 147.10 |
| Fan Motor | Model | | - | BLDC motor (feedback) | BLDC motor (feedback) | BLDC motor (feedback) | BLDC motor (feedback) |
| | Output x n | | W | 153 x 1 | 153 x 1 | 153 x 1 | 153 x 1 |
| 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) | 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 | 1.5 |
| | Connection with Indoor | Minimum | mm² | 0.75 | 0.75 | 0.75 | 0.75 |
| | | Remark | - | F1, F2 | F1, F2 | F1, F2 | F1, F2 |
| Refrigerant | Туре | | - | R410A (F | luorinated greenhouse gas, GWI | P=2,088) | |
| | Control Method | | - | EEV Included | EEV Included | EEV Included | EEV Included |
| Sound | Sound Pressure ¹ | (H/M/L) | dB(A) | 28/26/24 | 28/26/24 | 30/27/24 | 31/28/25 |
| | Sound Power | Cooling (Nominal) | dB(A) | 50 | 51 | 53 | 54 |
| Dimensions | Net Weight | | kg | 27.9 | 27.9 | 27.5 | 27.5 |
| | Net Dimensions (W × H × D) | | mm | 850 x 250 x 700 | 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 | Long-life filter |
| Additional | Drain Pump | | Model | INCLUDED | INCLUDED | INCLUDED | INCLUDED |
| Accessories | | Max. Lifting Height | mm | 750 | 750 | 750 | 750 |
| | | | | | | | |











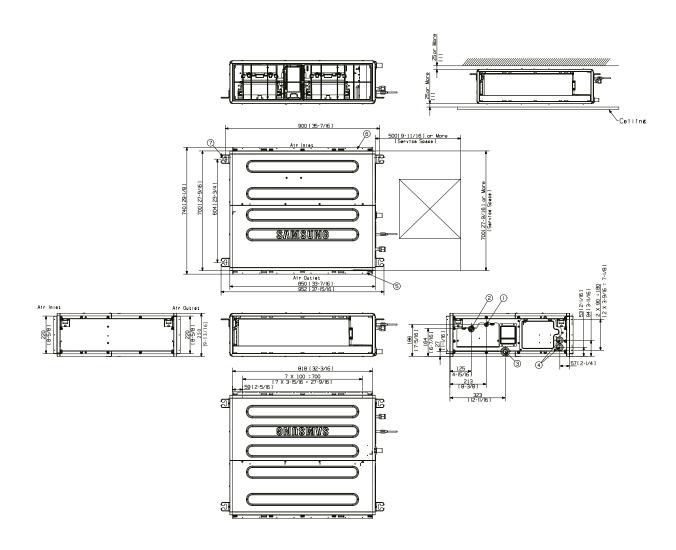
| Wireless Remote Controller | Touch Controller | Wi-Fi Kit | Wireless Receiver Kit | External Room Sensor |
|----------------------------|------------------|-----------|-----------------------|----------------------|
| AR-EH03E | | | MRK-A10N | |
| (to be matched | MWR-SH11N | MIM-H04EN | (to be matched | MRW-TA |
| with MRK-A10N) | | | with AR-EH03E) | |

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.

| AM056ANMPKH/EU | AM071ANMPKH/EU | AM090ANMPKH/EU | AM112ANMPKH/EU | AM128ANMPKH/EU | AM140ANMPKH/EU | AM160DNMPKH/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 |
| 5.6 | 7.1 | 9.0 | 11.2 | 12.8 | 14.0 | 16.0 |
| 6.3 | 8.0 | 10.0 | 12.5 | 13.8 | 16.0 | 18.0 |
| 70 | 110 | 135 | 130 | 160 | 210 | 300 |
| 70 | 110 | 135 | 130 | 160 | 210 | 300 |
| 0.6 | 1.0 | 1.2 | 1.2 | 1.4 | 1.7 | 2.5 |
| 0.6 | 1.0 | 1.2 | 1.2 | 1.4 | 1.7 | 2.5 |
| 1.08 | 1.48 | 1.78 | 1.97 | 2.17 | 2.38 | 3.16 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 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 | 45.0 / 35.0 / 25.0 |
| 267 / 225 / 150 | 350 / 300 / 217 | 450 / 367 / 267 | 500 / 417 / 300 | 600 / 500 / 383 | 667 / 567 / 400 | 750 / 583 / 417 |
| 0/3/15 | 0 / 3 / 15 | 0 / 4 / 15 | 0 / 5.2 / 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 / 39.23/147.10 | 0.00 / 50.99/ 147.10 | 0.00 / 50.99/ 147.10 | 0.00 / 50.99/147.10 | 0.00 / 51.0/ 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 | 244 x 1 | 244 x 1 | 244 x 1 | 350 x 1 |
| 6.35 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.5 |
| 1/4 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.9 |
| 1/2 | 5/8 | 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) | 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 | 0.8 |
| F1, F2 | F1, F2 | F1, F2 | F1, F2 | F1, F2 | F1, F2 | F1, F2 |
| R410A (Fluor | inated greenhouse gas, GWP=2,0 | 088) | | | | |
| EEV Included | EEV Included | EEV Included | EEV Included | EEV Included | EEV Included | EEV Included |
| 32/29/25 | 36/32/27 | 37/33/29 | 36/33/30 | 37/34/31 | 39/36/33 | 43/39/35 |
| 57 | 60 | 61 | 61 | 62 | 64 | 65 |
| 27.5 | 27.5 | 35.0 | 39.5 | 39.5 | 39.5 | 44.6 |
| 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 | 1300 x 300 x 700 |
| 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)

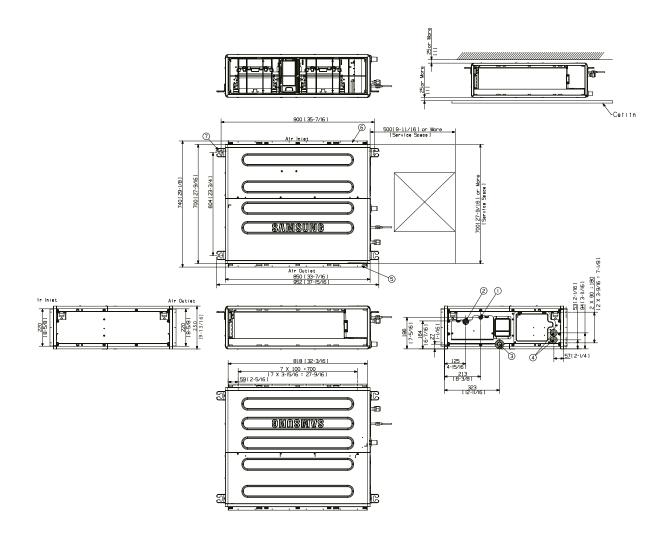
AM022/028ANMPKH/EU Units: mm [inches]



| 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 | |

AM036/045/056/071ANMPKH/EU

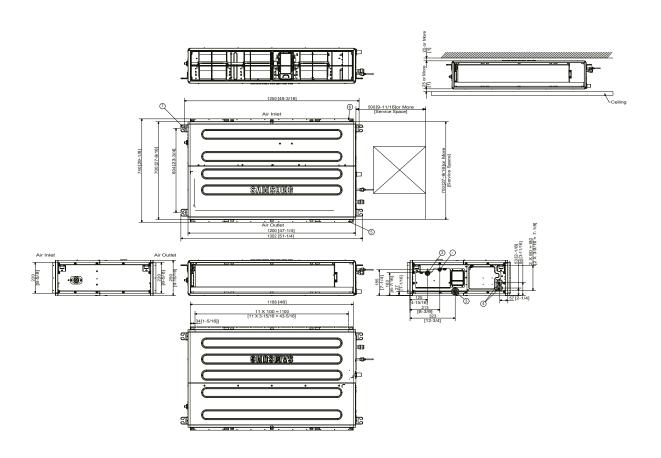
Units: mm [inches]



| 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 | | - | |

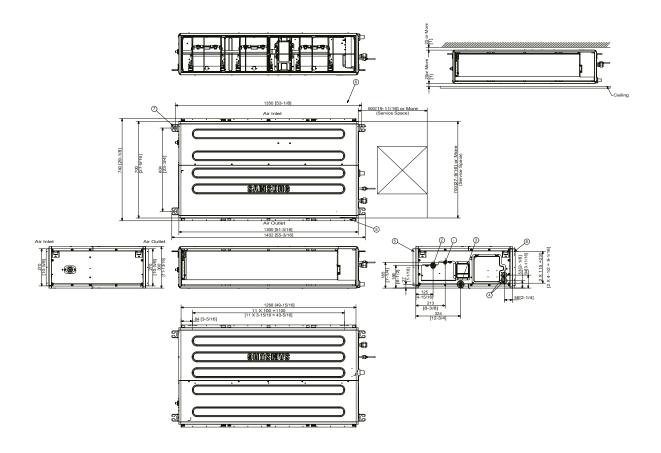
MSP Duct (drain pump included)

AM090ANMPKH/EU Units: mm [inches]



| 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 | - |

AM112/128/140/160ANMPKH/EU Units: mm [inches]



| 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 | | | AM090ANHPKH/EU | AM112ANHPKH/EU | AM128ANHPKH/EU |
|--------------------|-----------------------------|--------------------------------------|------------------|----------------------------|----------------------------|----------------------------|
| | | | | | | |
| Power Supply | | | Φ, #, V, Hz | 1Ф, 2, 220-240 V, 50/60 Hz | 1Φ, 2, 220-240 V, 50/60 Hz | 1Ф, 2, 220–240 V, 50/60 Hz |
| Performance | Capacity (Nominal) | Cooling | kW | 9.0 | 11.2 | 12.8 |
| | | Heating | kW | 10.0 | 12.5 | 13.8 |
| Power | Power Input (Nominal) | Cooling | W | 145.0 | 130 | 185 |
| | | Heating | W | 145.0 | 130 | 185 |
| | Current Input (Nominal) | Cooling | Α | 1.20 | 1.20 | 1.30 |
| | | Heating | Α | 1.20 | 1.20 | 1.30 |
| | Current Input (Nominal) | MCA | Α | 2.05 | 2.41 | 2.96 |
| | | MFA/MOP | Α | 15 | 15 | 15 |
| Fan | Туре | | - | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Number of Fans | | ea | 3 | 3 | 3 |
| | Airflow Rate | H/M/L (UL) | m³/min | 29.00/25.00/22.00 | 32.0 / 26.0 / 20.0 | 37.0 / 30.0 / 22.0 |
| | | | l/s | 483.00 / 417.00 / 367.00 | 533.00 / 433.00 / 333.00 | 617.00 / 500.00 / 367.00 |
| | External Static Pressure | Min/Std/Max | mmAq | 0 / 3.00 / 20.00 | 3.00 / 6.20 / 20.00 | 3.00 / 6.20 / 20.00 |
| | | | Pa | 0 / 29.42 / 196.13 | 29.42 / 60.80 / 196.13 | 29.42 / 60.80 / 196.13 |
| Fan Motor | Model | | - | BLDC motor | BLDC motor | BLDC motor |
| | Output x n | | W | 153 x 1 | 350 x 1 | 350 x 1 |
| 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" |
| | Drain Pipe | | ø, mm | VP25 (OD 32,ID 25) | VP25 (OD 32,ID 25) | VP25 (OD 32,ID 25) |
| Field Wiring | Power Source Wire | Below 20 m/ over 20 m | mm² | 1.5 | 1.5 | 1.5 |
| | Transmission Cable | Transmission Cable | mm² | 0.75 | 0.75 | 0.75 |
| | | Remark | - | F1,F2 | F1,F2 | F1,F2 |
| Refrigerant | Туре | | - | | | |
| | Control Method | | - | EEV INCLUDED | EEV INCLUDED | EEV INCLUDED |
| Sound ² | Sound Pressure ¹ | (H/M/L) | dB(A) | 34/31/28 | 36/33/30 | 39/36/33 |
| | Sound Power | Cooling | dB(A) | 60 | 61 | 64 |
| Dimensions | Net Weight | | kg | 35.4 | 44.5 | 44.5 |
| | Net Dimensions (W x H x D) | | mm | 1200x250x700 | 1300 x 300 x 700 | 1300 x 300 x 700 |
| Air Filter | | | - | Long-life Filter | Long-life Filter | Long-life Filter |
| Additional | Drain Pump | Internal | - | INCLUDED | INCLUDED | INCLUDED |
| Accessories | | External | - | - | - | - |
| | | Max. Lifting Height/ Displacement | mm / litres/h | 750/24 | 750/24 | 750/24 |

















| 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 | MWR-SH11N | MWR-WG00*N | MIM-H04EN | MRK-A10N (to be matched | 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.







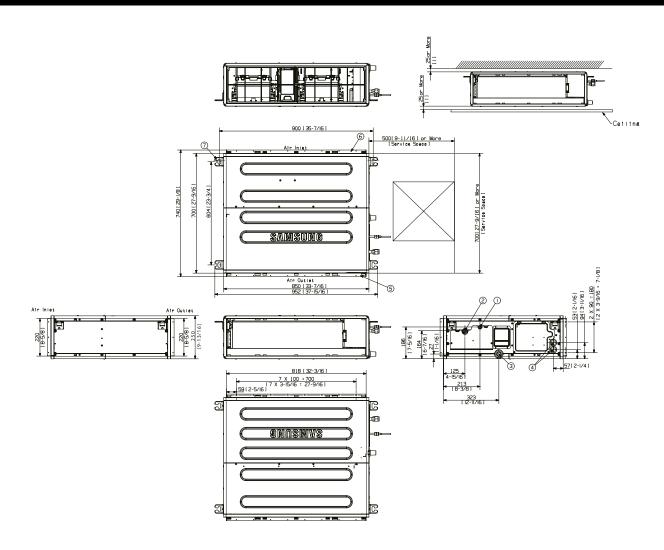




| 14.0 18.0 22.4 22.4 28.0 16.0 20.0 25.0 25.0 31.5 220 340 530 530 790 220 340 530 530 530 790 1.50 1.90 2,9 3.80 5,90 1.50 1.90 2,9 3.80 5,90 3.23 5,72 - 5,80 8.64 15 15 - 15 15 Sirocco Fan Sirocco Fan Sirocco Fan Sirocco Fan Sirocco Fan Sirocco Fan 510 41.0 / 34.0 / 25.0 58.0 / 50.0 / 43.0 72.0 / 61.0 / 50.0 58.0 / 52.0 / 47.0 72.0 / 65.0 / 58.0 | | | | | |
|---|----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 14.0 18.0 22.4 22.4 22.4 28.0 16.0 20.0 25.0 25.0 31.5 16.0 20.0 32.0 35.0 37.0 790 16.0 22.0 34.0 55.0 53.0 790 17.0 15.0 19.0 2.9 3.80 5.0 18.0 19.0 2.9 3.80 5.0 18.0 19.0 2.9 3.80 5.0 18.0 19.0 19.0 2.9 3.80 5.0 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19 | AM140ANHPKH/EU | AM180JNHFKH/EU | AM224JNHFKH/EU | AM220FNHDEH/EU | AM280FNHDEH/EU |
| 16.0 20.0 25.0 25.0 31.5 220 340 530 530 790 220 340 530 530 790 1.50 1.90 2.9 3.80 5.90 3.22 5.72 - 5.80 8.64 1.5 1.5 1.5 3.80 8.64 1.5 1.5 1.5 3.80 8.64 1.5 1.5 1.5 1.5 1.5 1.5 1.5 Sirocco Fan Sirocco Fan Sirocco Fan Sirocco Fan 1.0 1 | 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 | 1Ф, 2, 220–240 V, 50 Hz |
| 220 340 530 530 790 220 340 530 550 790 150 190 2,9 3.80 5.90 150 190 2,9 3.80 5.90 323 5.72 - 3.80 8.44 15 15 - 15 15 Sirocco Fan Sirocco Fan Sirocco Fan Sirocco Fan Sirocco Fan 3 1 1 1 1 1 410/34.0/25.0 58.0/50.0/43.0 72.0/610/50.0 58.0/52.0/40.0 72.0/65.0/58.0 68300/56700/417.00 966.67853.33/716.67 1200.00/106.0/833.33 966.6786.67785.33 1200.00/108.33/96.6 300/6.20/20.00 5.00/75.00/25.00 5.00/75.00/25.00 5.00/75.00/25.00 5.00/75.00/28.00 2942/6.08.0/196.13 9.00/73.470.00 4.00/73.4710.025.17 4.00/73.4710.025.17 4.00/73.4710.025.17 4.00/73.4710.025.17 4.00/73.4710.025.17 4.00/73.4710.025.17 4.00/73.4710.025.17 4.00/73.4710.025.17 4.00/73.4710.025.17 4.00/73.4710.02 | 14.0 | 18.0 | 22.4 | 22.4 | 28.0 |
| 220 340 530 530 790 150 190 2,9 3.80 5,90 150 190 2,9 3.80 5,90 323 5,72 - 5.80 8.64 15 15 - 15 15 15 Sirocco Fan Sirocco Fan Sirocco Fan Sirocco Fan 11 | 16.0 | 20.0 | 25.0 | 25.0 | 31.5 |
| 1.50 1.90 2.9 3.80 5.90 1.50 1.90 2.9 3.80 5.90 1.50 1.90 2.9 3.80 5.90 1.50 3.23 5.72 - 5.80 8.64 1.51 1.5 1.5 - 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | 220 | 340 | 530 | 530 | 790 |
| 1.50 1.90 2.90 3.80 5.90 3.23 5.72 | 220 | 340 | 530 | 530 | 790 |
| 3 23 5.72 - 5.80 8.64 15 15 15 15 15 Sirocco Fan Ta 1 2 20 20 20 20 20 20 20 20 20 3 | 1.50 | 1.90 | 2,9 | 3.80 | 5.90 |
| 15 15 15 15 15 15 15 15 15 15 15 15 15 1 | 1.50 | 1.90 | 2,9 | 3.80 | 5.90 |
| Sirocco Fan 1 2 0 0 0 0 1 0 1 0 0 1 0 0 0 1 0 0 0 2 2 <th< td=""><td>3.23</td><td>5.72</td><td>-</td><td>5.80</td><td>8.64</td></th<> | 3.23 | 5.72 | - | 5.80 | 8.64 |
| 3 1 1 1 1 1 1 41.0 / 34.0 / 25.0 58.0 / 50.0 / 43.0 72.0 / 61.0 / 50.0 58.0 / 52.0 / 47.0 72.0 / 65.0 / 58.0 683.00 / 56/00 / 41700 966.67/833.33 / 7/16.67 1200.00/1016.67/833.33 966.67/866.66/783.33 1200.00/1083.33/96.6 3.00 / 62/0 / 20.00 5.00/73.4/20.00 5.00/73.4/20.00 5.00/15.00/25.00 5.00/15.00/25.00 2942 / 40.80 / 196.13 49.00/71.95/196.00 49.03/71.93/196.00 49.03/147.10/245.17 49.03/147.10/274.59 BLDC motor - - - - - - 350 x1 630 x1 630 x1 400 x1 400 x1 400 x1 9.52 9.52 9.52 9.52 9.52 9.52 9.52 3/8 3/8 3/8 3/8 3/8 3/8 3/8 15.88 19.05 19.05 19.05 19.05 19.05 22.23 5/8° 3/4 3/4 3/4 7/8 7/8 VP25 (0D 32,1D 25) VP25 (0D 25,1D 20) | 15 | 15 | - | 15 | 15 |
| 410/340/250 58.0/50.0/430 72.0/610/500 58.0/52.0/470 72.0/65.0/58.0 683.00/56700/41700 966.67/833.33/716.67 1200.00/1016.67/833.33 966.67/866.67/783.33 1200.00/1083.33/966.6 3.00/6.20/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/734/20.00 5.00/73.00/26.00 5.00/73.00/73.00/26.00 5.00/73.00/73.00/26.00 5.00/73.00/73.00/26.00 5.00/73.00/7 | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| 683.00 / 567.00 / 417.00 966.67/833.33/716.67 1200.00/1016.67/833.33 966.67/866.67/783.33 1200.00/1083.33/966.6 | 3 | 1 | 1 | 1 | 1 |
| 3.00 / 6.20 / 20.000 5.00 / 7.34 / 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 49.00 / 17.93 / 196.00 49.03 / 17.93 / 196.00 49.03 / 14.710 / 245.17 49.03 / 24.710 / 245.17 49.03 / 24.710 / 245.17 49.03 / 24.710 / 245.17 49.03 / 24.710 | 41.0 / 34.0 / 25.0 | 58.0 / 50.0 / 43.0 | 72.0 /61.0 / 50.0 | 58.0 / 52.0 / 47.0 | 72.0 / 65.0 / 58.0 |
| 29.42 / 60.80 / 196.13 49.00/7193/196.00 49.03/1493/196.00 49.03/14710/245.77 49.03/14710/2745.97 BLDC motor - | 683.00 / 567.00 / 417.00 | 966.67/833.33/716.67 | 1200.00/1016.67/833.33 | 966.67/866.67/783.33 | 1200.00/1083.33/966.6 |
| BLDC motor - | 3.00 / 6.20 / 20.00 | 5.00/7.34/20.00 | 5.00/7.34/20.00 | 5.00/15.00/25.00 | 5.00/15.00/28.00 |
| 350 x1 630 x1 630 x1 400 x1 400 x1 9.52 9.52 9.52 9.52 9.52 3/8* 3/8 3/8 3/8 3/8 15.88 19.05 19.05 19.05 22.23 5/8* 3/4 3/4 3/4 7/8 VP25 (DD 32,ID 25) VP25 (DD 25, ID 20) VP25 (DD 25, ID 20) VP25 (DD 32, ID 25) VP25 (DD 32, ID 25) 1.5 1.5/2.5 1.5/2.5 1.5/2.5 1.5/2.5 1.5/2.5 0.75 0.75 - 1.50 | 29.42 / 60.80 / 196.13 | 49.00/71.93/196.00 | 49.03/71.93/196.00 | 49.03/147.10/245.17 | 49.03/147.10/274.59 |
| 9,52 9,52 9,52 9,52 9,52 3/8° 3/8 3/8 3/8 3/8 15,88 19,05 19,05 19,05 22,23 5/8° 3/4 3/4 3/4 7/8 VP25 (OD 32,ID 25) VP25 (OD 25,ID 20) VP25 (OD 52,ID 20) VP25 (OD 32,ID 25) VP25 (OD 32,ID 25) 1,5 1,5/2.5 | BLDC motor | - | - | - | - |
| 3/8¹ 3/8 3/8 3/8 3/8 15.88 19.05 19.05 19.05 22.23 5/8¹ 3/4 3/4 3/4 3/4 7/8 VP25 (OD 32,ID 25) VP25 (OD 25, ID 20) VP25 (OD 25, ID 20) VP25 (OD 32, ID 25) 15/25 1.5/25 1.5/25 1.5/25 1.5/25 1.5/25 1.5/25 1.5/25 1.5/25 1.5/25 1.5/25 1.5/25 1.5/25 1.5/25 1.5/2 | 350 x 1 | 630 x 1 | 630 x 1 | 400 x 1 | 400 x 1 |
| 15.88 19.05 19.05 19.05 22.23 5/8° 3/4 3/4 3/4 3/4 7/8 VP25 (DD 32,ID 25) VP25 (DD 25, ID 20) VP25 (DD 25, ID 20) VP25 (DD 32, ID 25) VP25 (DD 32, ID 25) 1.5 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 0.75−1.50 0.75−1.50 0.75−1.50 0.75−1.50 0.75−1.50 F1,F2 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| 5/8¹ 3/4 3/4 3/4 3/4 7/8 VP25 (DD 32,ID 25) VP25 (DD 25, ID 20) VP25 (DD 32, ID 25) TP25 (DD 32, ID 25) | 3/8" | 3/8 | 3/8 | 3/8 | 3/8 |
| VP25 (OD 32,ID 25) VP25 (OD 25, ID 20) VP25 (OD 25, ID 20) VP25 (OD 32, ID 25) VP25 (OD 32, ID 25) 1.5 1.5/2.5 <td< td=""><td>15.88</td><td>19.05</td><td>19.05</td><td>19.05</td><td>22.23</td></td<> | 15.88 | 19.05 | 19.05 | 19.05 | 22.23 |
| 1.5 1.5/2.5 0.75-1.50 <td>5/8"</td> <td>3/4</td> <td>3/4</td> <td>3/4</td> <td>7/8</td> | 5/8" | 3/4 | 3/4 | 3/4 | 7/8 |
| 0.75 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 R410A (Fluorinated greenhouse gas, GWP=2,088) EEV INCLUDED B9.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 1240 x 470 x 1,040 1240 x 470 x 1040 MDP-N0475NC1D MDP-N0475NC1D MDP-N0475NC1D MDP-N0475NC1D MDP-N0475NC1D | VP25 (OD 32,ID 25) | VP25 (OD 25, ID 20) | VP25 (OD 25, ID 20) | VP25 (OD 32, ID 25) | VP25 (OD 32, ID 25) |
| F1,F2 F1,F2 <th< td=""><td>1.5</td><td>1.5/2.5</td><td>1.5/2.5</td><td>1.5/2.5</td><td>1.5/2.5</td></th<> | 1.5 | 1.5/2.5 | 1.5/2.5 | 1.5/2.5 | 1.5/2.5 |
| R410A (Fluorinated greenhouse gas, GWP=2,088) EEV INCLUDED BOP-G075SQ MDP-G075SQ MDP-N047SNC1D MDP-N047SNC1D MDP-N047SNC1D MDP-N047SNC1D C - | 0.75 | 0.75~1.50 | 0.75~1.50 | 0.75~1.50 | 0.75~1.50 |
| EEV INCLUDED 48/46/43< | F1,F2 | F1,F2 | F1,F2 | F1,F2 | F1,F2 |
| 42/38/34 43/39/35 44/40/36 45/43/41 48/46/43 65 80 81 44.5 82.5 82.5 89.0 89.0 1300 x 300 x 700 1350 x 450 x 910 1350 x 450 x 910 1240 x 470 x 1,040 1240 x 470 x 1040 Long-life Filter - - - - - - INCLUDED MDP-G075SQ MDP-G075SQ MDP-N047SNC1D MDP-N047SNC1D MDP-N047SNC1D - MDP-G075SQ MDP-G075SQ - - - | R410A (Fluorinated greenh | nouse gas, GWP=2,088) | | | |
| 65 80 81 44.5 82.5 82.5 89.0 89.0 1300 x 300 x 700 1350 x 450 x 910 1350 x 450 x 910 1240 x 470 x 1,040 1240 x 470 x 1040 Long-life Filter - | EEV INCLUDED | EEV INCLUDED | EEV INCLUDED | EEV INCLUDED | EEV INCLUDED |
| 44.5 82.5 82.5 89.0 89.0 1300 x 300 x 700 1350 x 450 x 910 1350 x 450 x 910 1240 x 470 x 1,040 1240 x 470 x 1040 Long-life Filter - - - - - - INCLUDED MDP-G075SQ MDP-G075SQ MDP-N047SNC1D MDP-N047SNC1D MDP-N047SNC1D - MDP-G075SQ MDP-G075SQ - - - | 42/38/34 | 43/39/35 | 44/40/36 | 45/43/41 | 48/46/43 |
| 1300 x 300 x 700 1350 x 450 x 910 1350 x 450 x 910 1240 x 470 x 1,040 1240 x 470 x 1040 Long-life Filter - - - - - - INCLUDED MDP-G075SQ MDP-G075SQ MDP-N047SNC1D MDP-N047SNC1D MDP-N047SNC1D - - - | 65 | 80 | 81 | | |
| Long-life Filter - - - - - INCLUDED MDP-G075SQ MDP-G075SQ MDP-N047SNC1D MDP-N047SNC1D - MDP-G075SP MDP-G075SP - - | 44.5 | 82.5 | 82.5 | 89.0 | 89.0 |
| INCLUDED MDP-G075SQ MDP-G075SQ MDP-N047SNC1D MDP-N047SNC1D - MDP-G075SP MDP-G075SP - - | 1300 x 300 x 700 | 1350 x 450 x 910 | 1350 x 450 x 910 | 1240 x 470 x 1,040 | 1240 x 470 x 1040 |
| - MDP-G075SP MDP-G075SP | Long-life Filter | - | - | - | - |
| | INCLUDED | MDP-G075SQ | MDP-G075SQ | MDP-N047SNC1D | MDP-N047SNC1D |
| 750/24 750/24 750/24 | - | MDP-G075SP | MDP-G075SP | - | - |
| | 750/24 | - | - | 750/24 | 750/24 |

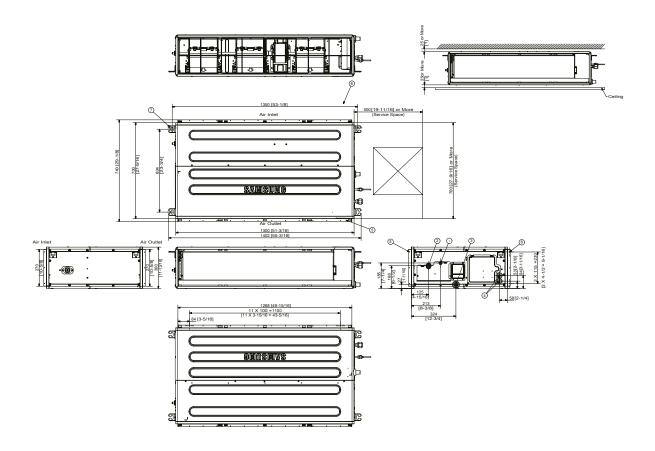
HSP Duct

AM090ANHPKH/EU Units: mm [inches]



| 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 |

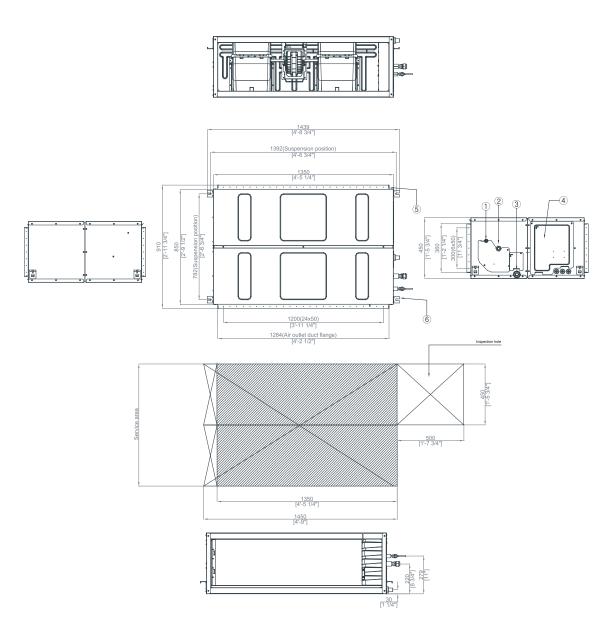
AM112/128/140ANHPKH/EU
Units: mm [inches]



| 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 |

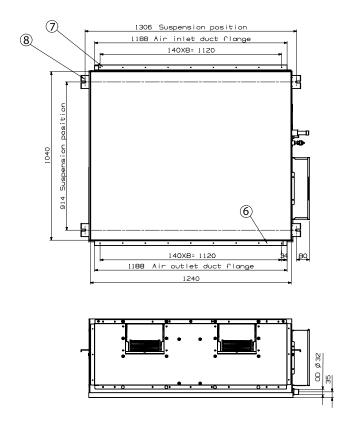
HSP Duct

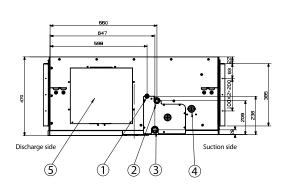
AM180J/224JNHFKH/EU Units: mm [inches]



| 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***
Units: mm [inches]





| 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) | 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 | | 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 (FI | uorinated greenhouse gas, GW | P=2,088) | |
| | Control Method | | - | EEV INCLUDED | EEV INCLUDED | EEV INCLUDED | EEV INCLUDED | EEV INCLUDED |
| Sound | Pressure ¹ | (H/M/L) | dB(A) | 38/36/34 | 38/36/34 | 39/37/34 | 42/39/36 | 43/40/37 |
| | Power | Cooling | dB(A) | 58 | 58 | 59 | 63 | 64 |
| Dimensions | Net Weight | | kg | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| | Net Dimensions | (W x H x D) | mm | 720 x 620 x 199 | 720 x 620 x 199 | 720 x 620 x 199 | 720 x 620 x 199 | 720 x 620 x 199 |
| Air Filter | | | - | - | Long-life Filter | Long-life Filter | - | Long-life Filter |









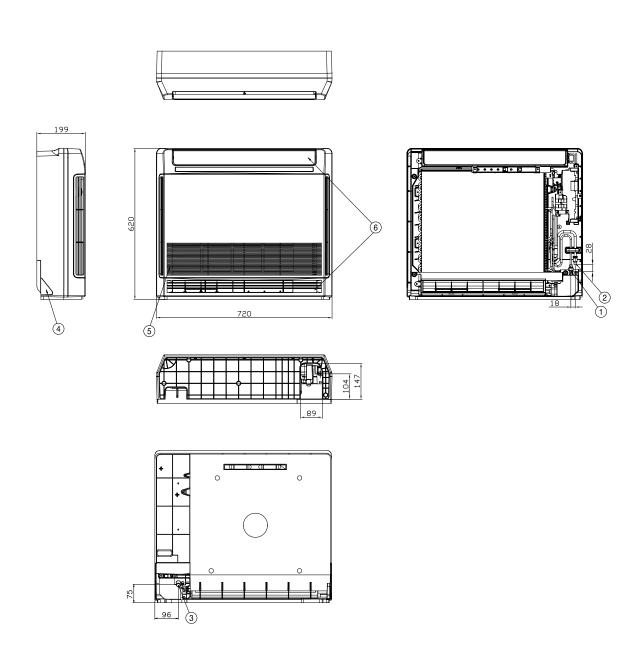
| Touch Controller | Wired Remote Controller | Wi-Fi Kit | External Room Sensor |
|------------------|----------------------------|-----------|----------------------|
| MWR-SH11N | MWR-WG00*N | MIM-H04EN | MRW-TA |

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.

Console

AM022KNJDEH/EU, AM028/036FNJDEH/EU

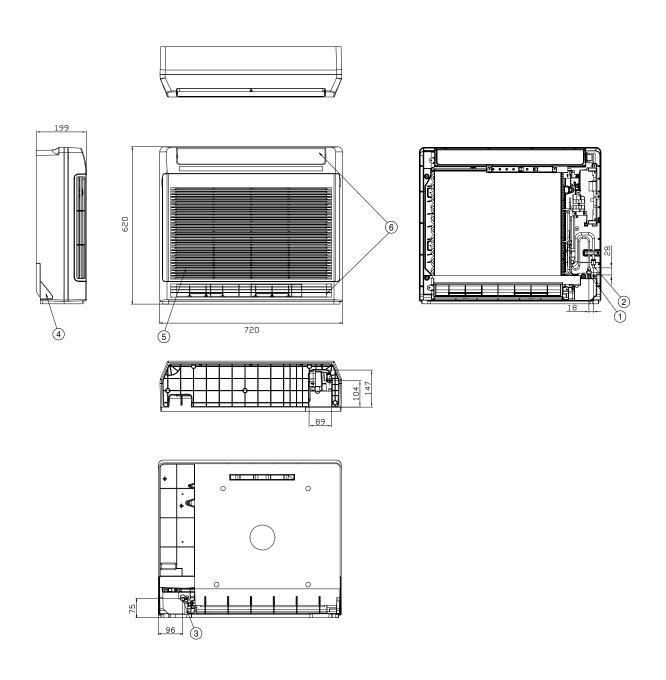
Units: mm [inches]



| 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

AM045KNJDEH/EU, AM056FNJDEH/EU
Units: mm [inches]



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



Floor/Ceiling

- Optional vertical or horizontal installation.
- Air supply by means of one adjustable blade.
- Reduced noise thanks to the remotely controlled EEV.
- Long-life washable HD 40 permanent filter is included.
- Can be controlled by Smartphone via Wi-Fi Kit (Optional).





| | Model | | | AM056DNCDKH/EU | AM071DNCDKH/EU |
|--------------------|-----------------------------|--------------------------|-------------|----------------------------|----------------------------|
| Power Supply | | | Φ, #, V, Hz | 1Ф, 2, 220~240 V, 50/60 Hz | 1Ф, 2, 220~240 V, 50/60 Hz |
| Performance | Capacity (Nominal) | Cooling | kW | 5,6 | 7,1 |
| | | Heating | kW | 6,3 | 8 |
| Power | Power Input (Nominal) | Cooling | W | 50 | 51 |
| | | Heating | w | 50 | 51 |
| | Current Input (Nominal) | Cooling | Α | 0,43 | 0,47 |
| | | Heating | Α | 0,43 | 0,47 |
| Fan | Motor | Туре | - | BLDC | BLDC |
| | | Output | w | 40 | 153 |
| | | Number of Fans | ea | 2 | 3 |
| | Airflow Rate | H/M/L (UL) | m³/min | 12.6/11.3/10 | 18.4/16.4/14.3 |
| | | | l/s | 210/188.33/166.66 | 306.66/273.33/238.33 |
| 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 INCLUDED | EEV INCLUDED |
| Sound | Sound Pressure ¹ | (H/M/L) | dB(A) | 41/39/36 | 37/35/33 |
| Dimensions | Net Weight | | kg | 21.0 | 33 |
| | Net Dimensions (W × H × D) | | mm | 1000 x 650 x 200 | 1350x 675 x 235 |
| Air Filter | | | - | Long-life Filter | Long-life Filter |





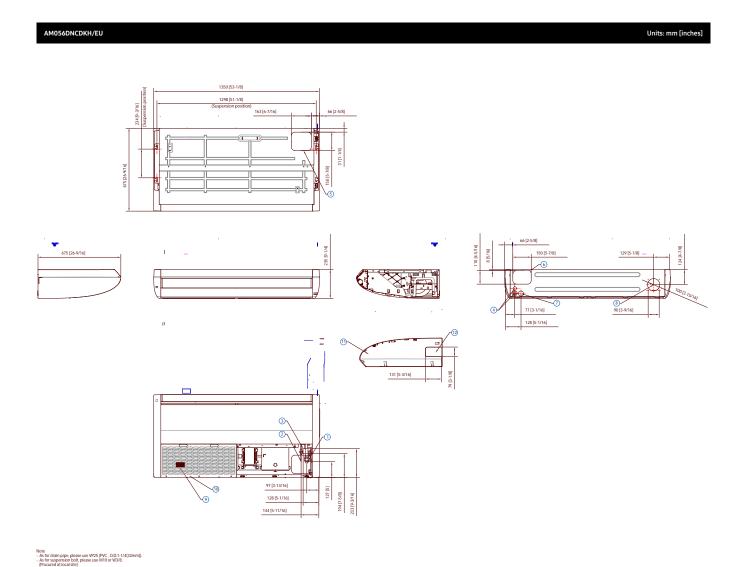




| Touch Controller | Wired Remote Controller | Wi-Fi Kit | External Room Sensor |
|------------------|----------------------------|-----------|----------------------|
| MWR-SH11N | MWR-WG00*N | MIM-H04EN | MRW-TA |

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.

Floor/Ceiling



| NO | Name | Description | | | |
|----|--|--------------------|--|--|--|
| 1 | Refrigerant gas pipe | | | | |
| 2 | Refrigerant liquid pipe | | | | |
| 3 | Condensate drain | VP-25 (OD32, ID25) | | | |
| 4 | Conduit hole | ø28(ø1-1/8) | | | |
| 5 | Knockout hole for upper piping arrangement | | | | |
| 6 | Knockout hole for rear piping arrangement | | | | |
| 7 | Knockout hole for drain pipe arrangement | | | | |
| 8 | Fresh air intake | | | | |
| 9 | Airfilter | | | | |
| 10 | Air suction grille | | | | |
| 11 | Cover side | | | | |
| 12 | Knockout hole for side piping arrangement | | | | |

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



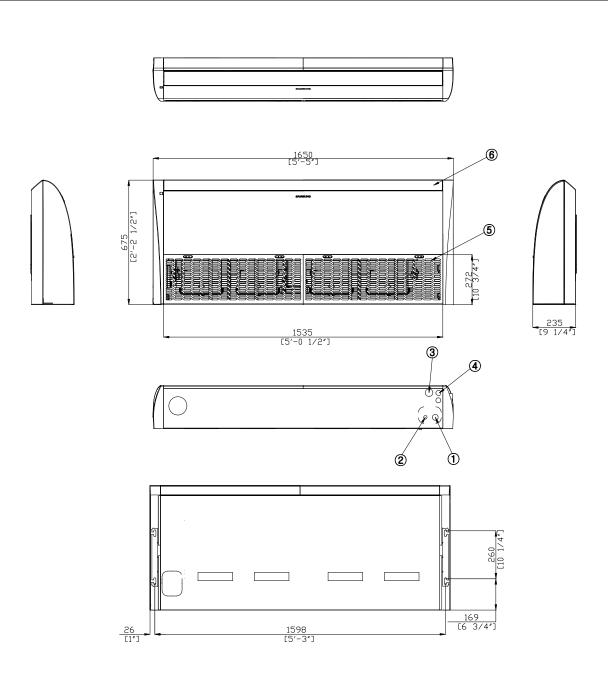
| | Model | | | AM112JNCDKH/EU | AM140JNCDKH/EU |
|--------------------|-----------------------------|-------------------------|-------------|-------------------------|-------------------------|
| Power Supply | | | Φ, #, V, Hz | 1Ф, 2, 220~240 V, 50 Hz | 1Ф, 2, 220~240 V, 50 Hz |
| Performance | Capacity (Nominal) | Cooling | kW | 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 |
| ound | 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 |



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

AM***JNCDKH/EU Units: mm [inches]



| 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 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 | 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 |
| 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) | 37/32/27 | 40/36/32 | 40/36/32 |
| Dimensions | Net Weight | | kg | 23.0 | 28.5 | 28.5 |
| | Net Dimensions (W \times H \times 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 |







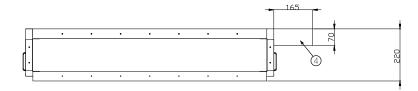


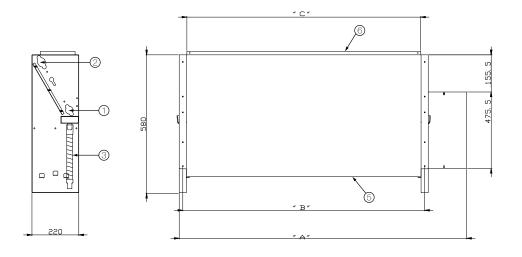
| Touch Controller | Wired Remote Controller | Wi-Fi Kit | External Room Sensor |
|------------------|----------------------------|-----------|----------------------|
| MWR-SH11N | MWR-WG00*N | MIM-H04EN | MRW-TA |

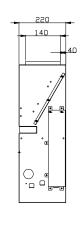
¹ Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment Sound pressure level may differ depending on operation conditions.

Concealed Floor-Standing

AM036/056/071FNFDEH/**
Units: mm [inches]







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

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

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 |
| an | Motor | Туре | - | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | | Output x n | W | 100 x 1 | 100 x 1 | 100 x 1 |
| | External Static Pressure | Min/Std/Max | mmAq | 0.00/3.00/6.00 | 0.00/3.00/6.00 | 0.00/3.00/6.00 |
| | | Min/Std/Max | Pa | 0.00/29.40/58.90 | 0.00/29.40/58.90 | 0.00/29.40/58.90 |
| | Airflow Rate | (H/M/L) | m³/h | 600/510/360 | 930/840/660 | 930/840/660 |
| Piping Connections | Liquid Pipe | | ø, mm | 6.35 | 6.35 | 9.52 |
| | | | ø, inch | 1/4 | 1/4 | 3/8 |
| | Gas Pipe | | ø, mm | 12.70 | 12.70 | 15.88 |
| | | | ø, inch | 1/2 | 1/2 | 5/8 |
| | Drain Pipe | | ø, mm | ID 18 HOSE | ID 18 HOSE | ID 18 HOSE |
| ield Wiring | Power Source Wire | | mm² | 1.5~2.5 | 1.5~2.5 | 1.5~2.5 |
| | Transmission Cable | | mm² | 0.75~1.50 | 0.75~1.50 | 0.75~1.50 |
| 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) | 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 |







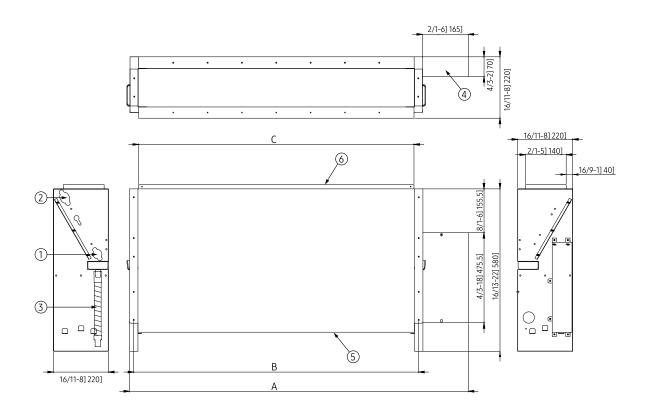


| Touch Controller | Wired | Wi-Fi Kit | External Room Sensor |
|------------------|-------------------|-----------|----------------------|
| | Remote Controller | | |
| MWR-SH11N | MWR-WG00*N | MIM-H04EN | MRW-TA |

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

AM036/056/071FNFDEH/**
Units: mm [inches]



| 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 upgraded BLDC motor.
- Auto external static pressure control
- Embedded single Wi-Fi kit helps to control via SmartPhone





| | Model | | | AM140RNPDKH/EU | AM280CNPDKH/EU |
|--------------------|-----------------------------|----------------|-------------|---|----------------------------|
| Power Supply | | | Ф, #, V, Hz | 1Ф, 2, 220-240 V, 50/60 Hz | 1Ф, 2, 220-240 V, 50/60 Hz |
| Performance | Capacity (Nominal) | Cooling | kW | 14 | 28 |
| | | Heating | kW | 16 | 31.5 |
| Power | Power Input (Nominal) | Cooling | w | 190 | 400 |
| | | Heating | w | 190 | 400 |
| | Current Input (Nominal) | Cooling | Α | 0.90 | 2.7 |
| | | Heating | Α | 0.90 | 2.7 |
| Fan | Motor | Туре | - | Sirocco Fan | Sirocco Fan |
| | | Output x n | w | 154 x 1 | 630 x 1 |
| | Airflow Rate | H/M/L (UL) | m³/min | 35.00/30.50/27.50 | 68.00/63.00/58.00 |
| | | | l/s | 583.33/508.33/458.33 | 2401.5 / 2224.9 / 2048.3 |
| 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 | 0.75 |
| | Transmission Cable | | mm² | VCTF 0.75-1.50 | VCTF 0.75-1.50 |
| Refrigerant | Туре | | - | R410A (Fluorinated greenhouse gas, GWP=2,088) | |
| | Control Method | | - | EEV INCLUDED | EEV INCLUDED |
| Sound | Sound Pressure ¹ | (H/M/L Silent) | dB(A) | 54/47 | 58/56/54 |
| | Sound Power | Cooling | dB(A) | - | 74 |
| Dimension | Net Weight | | kg | 48.0 | 108 |
| | Net Dimensions (W x H x D) | | mm | 610 x 1,850 x 400 | 1,100 x 1,800 x 485 |
| Connectivity | | | | | Single Wi-Fi Kit embedded |



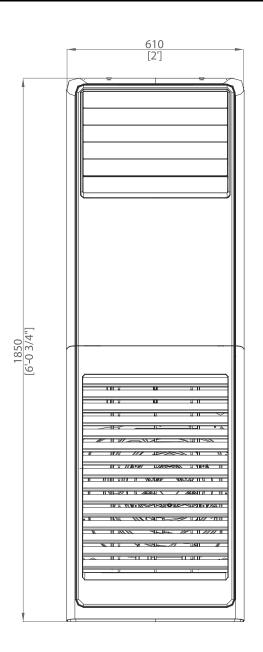


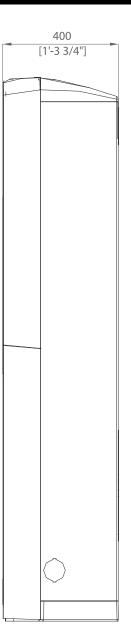
| Wi-Fi Kit | External Room Sensor |
|-----------|----------------------|
| MIM-H04EN | MRW-TA |

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.

Packaged Floor-Standing

AM140RNPDKH/EU Units: mm [inches]

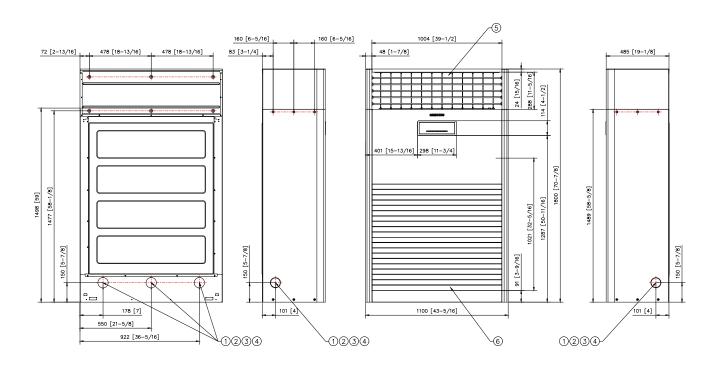




| NO | Name | Description |
|----|---------------------------|--------------|
| 1 | Gas piping refrigerant | ø15.88 (5/8) |
| 2 | Liquid piping refrigerant | ø9.52 (3/8) |
| 3 | Condensation drain piping | - |

Packaged Floor-Standing

AM280CNPDKH/EU Units: mm [inches]



| NO | Name | Description |
|----|---|--------------|
| 1 | Gas pipe connection | Φ22.22 [7/8] |
| 2 | Liquid pipe connection | Ф9.52 [3/8] |
| 3 | Drain hose connection | - |
| 4 | Power supply/Communication wiring conduit | - |
| 5 | Air outlet louver | - |
| 6 | Air inlet grille | - |



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 | |
| Fan | Motor | Туре | - | Crossflow Fan | Crossflow Fan | Crossflow Fan | |
| | | Output | w | 27 x 1 | 27 x 1 | 27 x 1 | |
| | Airflow Rate | H/M/L (UL) | m³/min | 4.9/4.5/4.1 | 5.7/5.0/4.5 | 8.5/7.7/6.9 | |
| | | | l/s | 81.7/75.0/68.3 | 95.0/83.3/75.0 | 141.7/128.3/115.0 | |
| Piping | Liquid Pipe | | ø, mm | 6.35 | 6.35 | 6.35 | |
| Connections | | | ø, inch | 1/4 | 1/4 | 1/4 | |
| | Gas Pipe | | ø, mm | 12.70 | 12.70 | 12.70 | |
| | | | ø, inch | 1/2 | 1/2 | 1/2 | |
| | Drain Pipe | | ø, mm | ID 18 HOSE | ID 18 HOSE | ID 18 HOSE | |
| Field Wiring | Power Source Wire | | mm² | 1.5/2.5 | 1.5/2.5 | 1.5/2.5 | |
| | Transmission Cable | | mm² | 0.75~1.50 | 0.75~1.50 | 0.75~1.50 | |
| | Remark | | - | F1, F2 | F1, F2 | F1, F2 | |
| Refrigerant | Туре | | - | R410A | A (Fluorinated greenhouse gas, GWP = 2 | .088) | |
| | Control Method | | - | EEV INCLUDED | EEV INCLUDED | EEV INCLUDED | |
| Sound | Sound Pressure ¹ | (H/M/L) | dB(A) | 31/30/27/26 (WindFree™) | 34/32/30/27 (WindFree™) | 34/33/32/26 (WindFree™) | |
| | Sound Power | Cooling | dB(A) | 50 | 51 | 52 | |
| Dimensions | Net Weight | | kg | 9.0 | 9.0 | 9.5 | |
| | Net Dimensions (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 | |



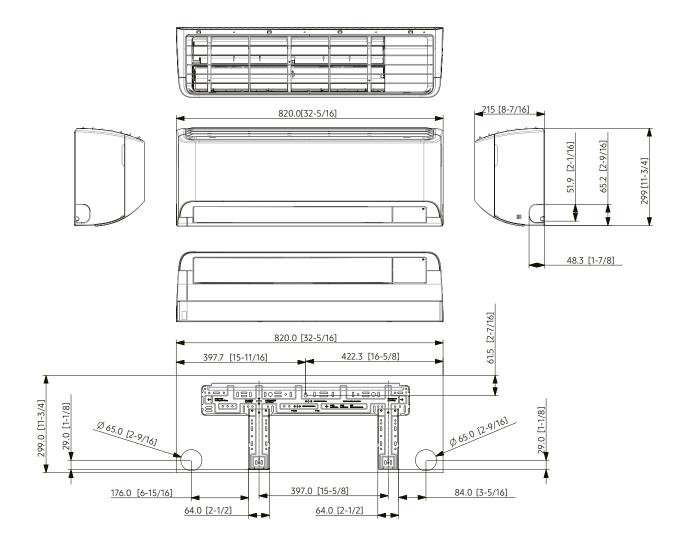
¹ Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment Sound pressure level may differ depending on operation conditions.



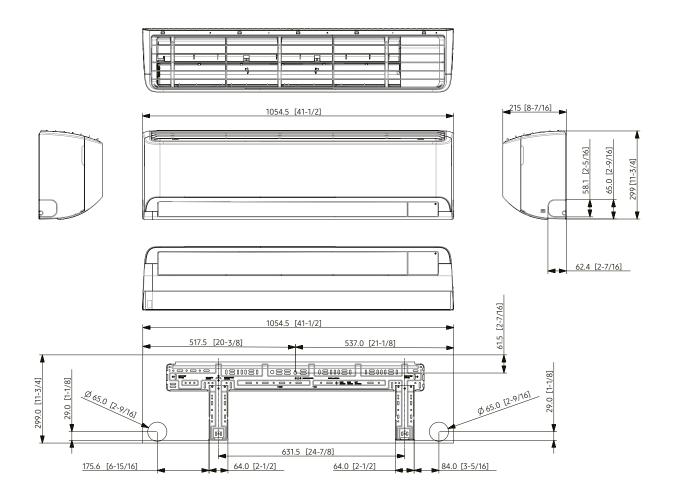
WindFree™ Deluxe (EEV included)

AM015TNVDKH/EU, AM022TNVDKH/EU, AM028TNVDKH/EU, AM036TNVDKH/EU

Units: mm [inches]



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



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

WindFree™ Deluxe (EEV excluded) ™

- Three-step cooling: Fast Cooling mode, 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 | |
|--------------------|-----------------------------|------------|-------------|---|----------------------------|----------------------------|--|
| Power Supply | | | Ф, #, V, Hz | 1Φ, 2, 220~240 V, 50/60 Hz | 1Ф, 2, 220~240 V, 50/60 Hz | 10, 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 | | A | 0.2 | 0.2 | 0.3 | |
| | MFA | | Α | 15 | 15 | 15 | |
| Fan | Motor | Туре | - | Crossflow Fan | Crossflow Fan | Crossflow Fan | |
| | | Output | w | 27 x 1 | 27 x 1 | 27 x 1 | |
| | Airflow Rate | H/M/L (UL) | m³/min | 4.9/4.5/4.1 | 5.7/5.0/4.5 | 8.5/7.7/6.9 | |
| | | | l/s | 81.7/75.0/68.3 | 95.0/83.3/75.0 | 141.7/128.3/115.0 | |
| Piping Liquid Pipe | | | ø, mm | 6.35 | 6.35 | 6.35 | |
| Connections | | | ø, inch | 1/4 | 1/4 | 1/4 | |
| | Gas Pipe | | ø, mm | 12.70 | 12.70 | 12.70 | |
| | | | ø, inch | 1/2 | 1/2 | 1/2 | |
| | Drain Pipe | | ø, mm | ID 18 HOSE | ID 18 HOSE | ID 18 HOSE | |
| Field Wiring | Power Source Wire | | mm² | 1.5/2.5 | 1.5/2.5 | 1.5/2.5 | |
| | Transmission Cable | | mm² | 0.75~1.50 | 0.75~1.50 | 0.75~1.50 | |
| | Remark | | - | F1, F2 | F1, F2 | F1, F2 | |
| Refrigerant | Туре | | - | 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 | |















| Wireless Remote Controller | Touch Controller | Wired Remote Controller | Wi-Fi Kit | EEV Kit1 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™ 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.









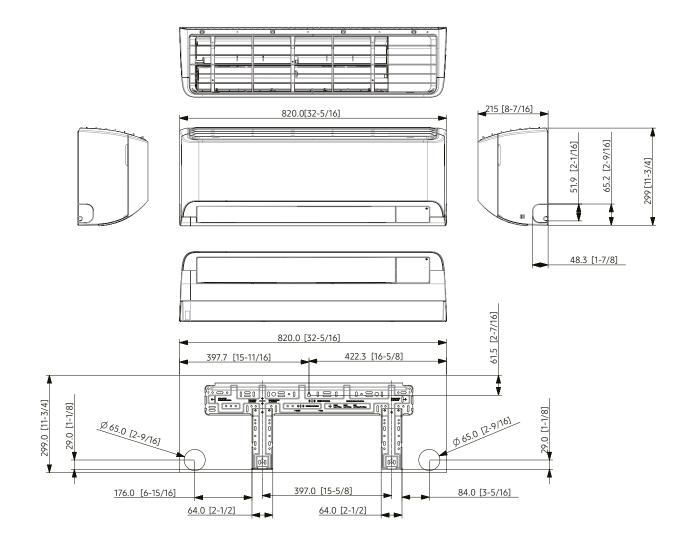


| | _ | | | _ | |
|----------------------------|----------------------------|--|----------------------------|----------------------------|--|
| AM036TNADKH/EU | AM045TNADKH/EU | AM056TNADKH/EU | AM071TNADKH/EU | AM082TNADKH/EU | |
| 10, 2, 220~240 V, 50/60 Hz | 1Ф, 2, 220~240 V, 50/60 Hz | 1Ф, 2, 220~240 V, 50/60 Hz | 1Ф, 2, 220~240 V, 50/60 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 | |
| | R410 | OA (Fluorinated greenhouse gas, GWP = 2,08 | 38) | | |
| 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 | |
| | | | | | |

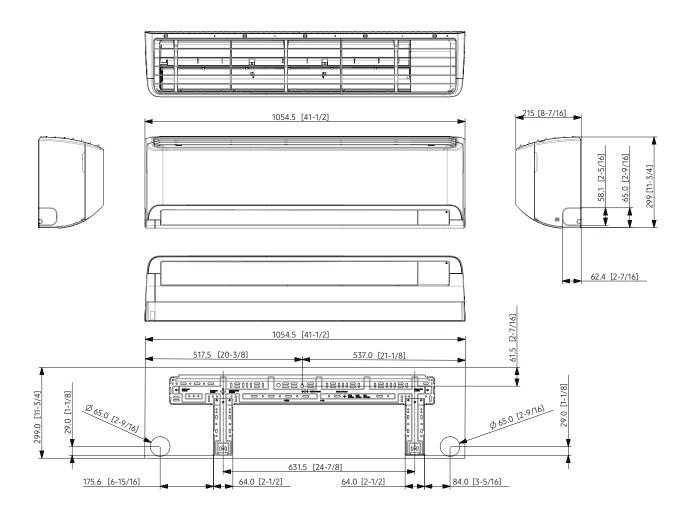
WindFree™ Deluxe (EEV excluded)

AM015TNADKH/EU, AM022TNADKH/EU, AM028TNADKH/EU, AM036TNADKH/EU

Units: mm [inches]



| 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.
- Can be controlled by Smartphone via Wi-Fi Kit (Optional).
- Manual adjustable guide vane allows users to change the airflow from side to side (left to right).



| apacity ower Input urrent Input urrent urrent irflow Rate | Cooling Heating Cooling Heating Cooling Heating MCA MFA | Ф,#,V,Hz kW kW W W A A | 10, 2, 220–240 V, 50 Hz 9.3 9.8 66 76 0.47 0.54 0.68 |
|--|--|--|--|
| ower Input urrent Input urrent urrent urrent | Heating Cooling Heating Cooling Heating MCA | kW W W A A A | 9.8 66 76 0.47 0.54 0.68 |
| urrent input urrent urrent upe | Cooling Heating Cooling Heating MCA | W W A A A | 66 76 0.47 0.54 0.68 |
| urrent input urrent urrent upe | Heating Cooling Heating MCA | W A A A | 76 0.47 0.54 0.68 15 |
| urrent ype umber of Fans | Cooling Heating MCA | A A A | 0.47 0.54 0.68 15 |
| urrent ype umber of Fans | Heating MCA | A A A | 0.54 0.68 15 |
| ype lumber of Fans | MCA | A A | 0.68 15 |
| ype lumber of Fans | | A | 15 |
| lumber of Fans | MFA | •• | |
| lumber of Fans | | - | |
| | | | Crossflow Fan |
| irflow Date | | ea | 1 |
| III ILUW Rate | H/M/L | m³/min | 23/20/17 |
| | | l/s | 383/333/283 |
| ype | | - | BLDC Motor |
| utput x n | | w | 58 x 1 |
| iquid Pipe | | ø, mm | 9.52 |
| | | ø, inch | 3/8 |
| as Pipe | | ø, mm | 15.88 |
| | | ø, inch | 5/8 |
| rain Pipe | | ø, mm | ID 18 HOSE |
| ommunication | Min. | mm² | 0.75 |
| | Remark | - | F1, F2 |
| ype | | - | R410A (Fluorinated greenhouse gas, GWP=2,088) |
| lectronic Expansion Valve | | - | EEV INCLUDED |
| ound Pressure ¹ | H/M/L | dB(A) | 49/46/42 |
| ound Power | Cooling | dB(A) | 66 |
| et Weight | | kg | 18.5 |
| et Dimensions (W × H × D) | | mm | 1,280 x 345 x 253 |
| ֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜ | utput x n iquid Pipe as Pipe rain Pipe ommunication //pe lectronic Expansion Valve ound Pressure' ound Power et Weight | tutput x n iquid Pipe as Pipe rain Pipe ommunication Min. Remark //pe lectronic Expansion Valve ound Pressure¹ H/M/L ound Power cooling et Weight | Victor V |

Accessories









| 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.

Max Wall-Mounted

AM093MNQDEH** Units: mm [inches] 253 (9-15/16) Knockout hole for Knockout hole for left piping right piping 64 (2-9/16) ∼Wall hole for Wall hole for right rear piping right rear piping

| 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 | | | Φ, #, 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 | 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 | Α | 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 | |
| leat 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 Insta | llation) | mm² | 2.5 | 2.5 | 2.5 | |
| | Transmission Cable | | mm² | 0.75~1.50 | 0.75~1.50 | 0.75~1.50 | |
| efrigerant | Туре | | - | R410 | A (Fluorinated greenhouse gas, GWP=2 | inated greenhouse gas, GWP=2,088) | |
| | Control Method | | - | EEV | EEV | EEV | |
| ound | Sound Pressure ¹ | | dB(A) | 27 | 28 | 31 | |
| | Sound Power | | dB(A) | 54 | 56 | 59 | |
| imensions | Net Weight | | kg | 29.0 | 33.0 | 40.0 | |
| | Net Dimensions (W × H × D) | | mm | 518 x 627 x 330 | 518 x 627 x 330 | 518 x 627 x 330 | |
| perating | Ambient | Cooling | °c | -5.0~48.0 | -5.0~48.0 | -5.0~48.0 | |
| mperature 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 | |

Accessories



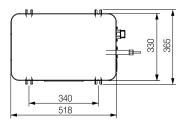
Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment Sound pressure level may differ depending on operation conditions.

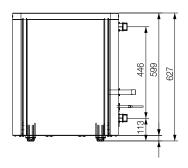


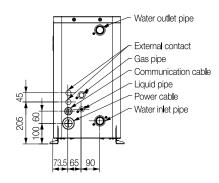
| | Model (HT) | | | AM160TNBFEB/EU | AM160TNBFGB/EU | AM250TNBFEB/EU | AM250TNBFGB/EU |
|--------------------|---|---------------------------------|-------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Power Supply | | | Ф, #, V, Hz | 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 Hz |
| 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 |
| Heat 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 |
| Piping 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 |
| Field Wiring | Power Source Wire (L<10 m, Single Installation) | | 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 |
| Refrigerant | 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 |
| Sound | 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 |
| Operating | Ambient | Cooling | °C | - | - | - | - |
| Temperature 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

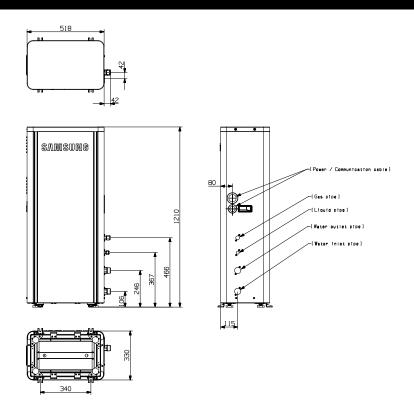
AM***FNBDEH/EU

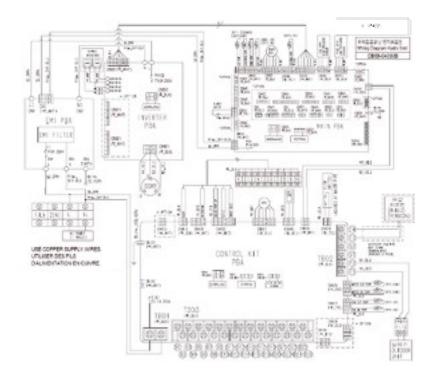




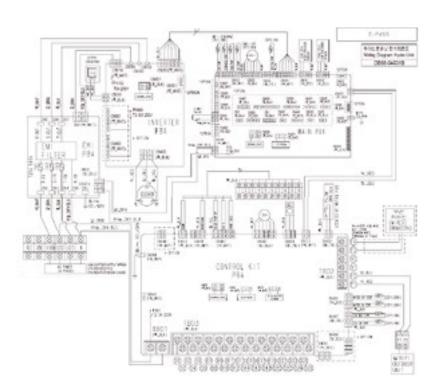


AM***TNBF*B/EU





AM160/250TNBFGB/EU



Specifications Mode Control Unit (MCU)

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





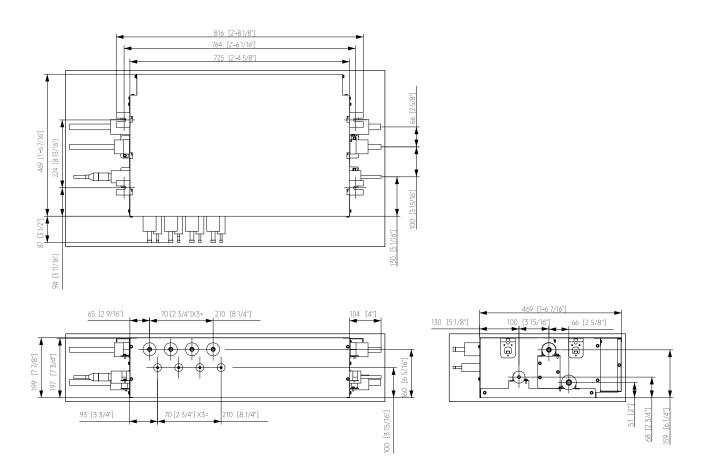
| | Model | | MCU-R4NEK0N | MCU-S6NEK3N |
|-----------------------------------|---------------------------------|-------------|-------------------------|-------------------------|
| Туре | | | HR Changer | MCU |
| Power Supply | | Φ, #, V, Hz | 1Ф, 220-240 V, 50/60 Hz | 1Ф, 220-240 V, 50/60 Hz |
| Mode | | - | Heat Recovery | Heat Recovery |
| Max. number of indoor units | | ea | 12 | 18 |
| Max. indoor units per port | | ea | 3 | 3 |
| lumber of ports | | ea | 4 | 6 |
| Max. capacity of indoor units | | kW | 22.4 | 22.4 |
| Max. capacity of indoor units per | | kW | 5.6 | 5.6 |
| ort | Y-Joint | kW | 14.0 | 14.0 |
| efrigerant | 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 |
| xternal 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 |



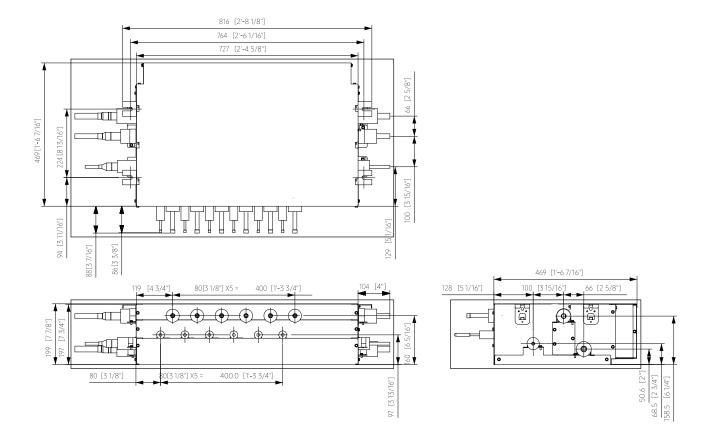
| | Model | | | MCU-S1NEK1N | MCU-S2NEK2N | MCU-S4NEK3N | MCU-S6NEK2N | MCU-S8NEK1N | MCU-S12NEK1N |
|--|---------------------------|---------------|-------------|-------------------|-------------------|--------------------------|-------------------------|-------------------|----------------|
| Power Supply | | | Ф, #, V, Hz | | | 1Ф, 2, 220~240 V, 50 Hz, | 1Ф, 2, 208~230 V, 60 Hz | | |
| Power | Power Input (Nominal) | Cooling | w | 19 | 25 | 40 | 55 | 80 | 110 |
| | | Heating | w | 19 | 25 | 40 | 55 | 80 | 110 |
| | Current Input (Nominal) | Cooling | Α | 0.20 | 0.20 | 0.20 | 0.30 | 0.40 | 0.60 |
| | | Heating | Α | 0.20 | 0.20 | 0.20 | 0.30 | 0.40 | 0.60 |
| | MCA | | Α | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | MFA (MOP) | | Α | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Max. number of connectable indoor units | | | ea | 8 | 16 | 32 | 32 | 64 | 64 |
| Max. number of connectable indoor inits per branch | | | ea | 8 | 8 | 8 | 8 | 8 | 8 |
| lumber of branches | | | ea | 1 | 2 | 4 | 6 | 8 | 12 |
| Max. capacity of connectable indoor inits | | | kW | 16.0 | 32.0 | 61.6 | 61.6 | 85.0 | 85.0 |
| Max. capacity of | | | kW | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| connectable indoor units per branch | | Y-Joint | kW | - | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 |
| ield Wiring | Power Source Wire | | mm² | 2.5 | 2.5 | 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 | 0.75~1.50 | 0.75~1.50 |
| Sound Pressure Stable Cooling Oper | | | dB(A) | 33 | 34 | 36 | 36 | 38 | 38 |
| | Heating-to-Cooling Chan | igeover | - | 50 | 50 | 50 | 50 | 50 | 50 |
| dditional lefrigerant Charging | | | kg/unit | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 |
| iping Connections | Outdoor Unit Liquid Pi | Liquid Pipe | ø, mm | 9.52 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 |
| | | | ø, inch | 3/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| | | Gas Pipe | ø, mm | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 |
| | | | ø, inch | 7/8 | 11/8 | 11/8 | 11/8 | 11/8 | 11/8 |
| | | Discharge Gas | ø, mm | 19.05 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 |
| | | | ø, inch | 3/8 | 11/8 | 11/8 | 11/8 | 11/8 | 11/8 |
| | Indoor Unit | Liquid Pipe | ø, mm | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| | | | ø, inch | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| | | Gas Pipe | ø, mm | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 |
| | | | ø, inch | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| xternal Dimensions | Net Weight | | kg | 11.0 | 21.0 | 24.5 | 28.5 | 88.6 | 101.9 |
| | Net Dimensions (W x H x I | D) | mm | 338 x 199 x 409 | 728 x 199 x 469 | 728 x 199 x 469 | 728 x 199 x 469 | 980 x 298 x 469 | 980 x 298 x 46 |
| peration Limit | Cooling | | °C (°F) | -15~48 (5~118.4) | -15~48 (5~118.4) | -15~48 (5~118.4) | -15~48 (5~118.4) | -15~48 (5~118.4) | -15~48 (5~118. |
| | Heating | | °C (°F) | -25~24 (-13~75.2) | -25~24 (-13~75.2) | -25~24 (-13~75.2) | -25~24 (-13~75.2) | -25~24 (-13~75.2) | -25~24 (-13~75 |

Mode Control Unit (MCU)

MCU-R4NEKON Units: mm [inches]

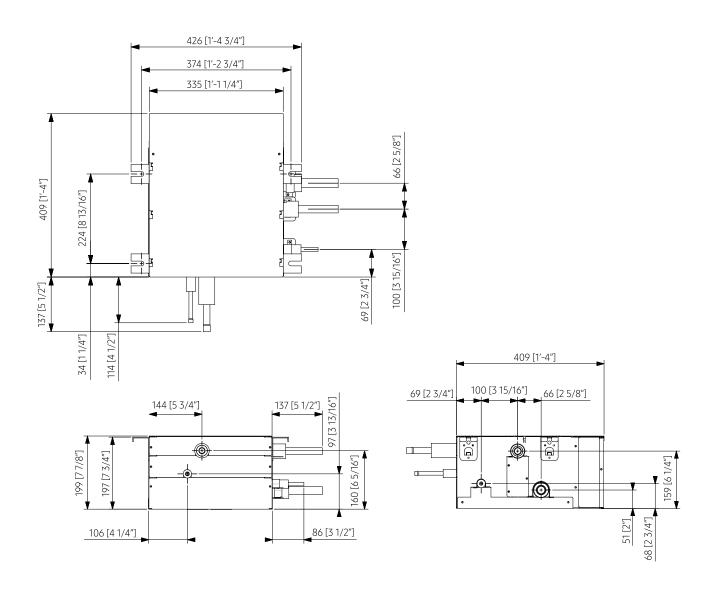


MCU-S6NEK3N Units: mm [inches]

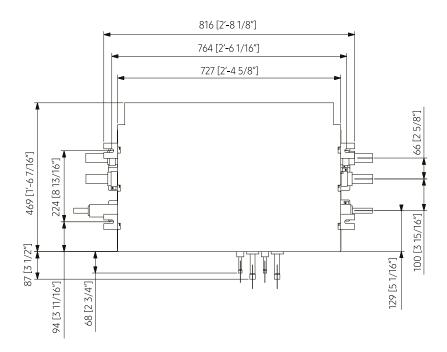


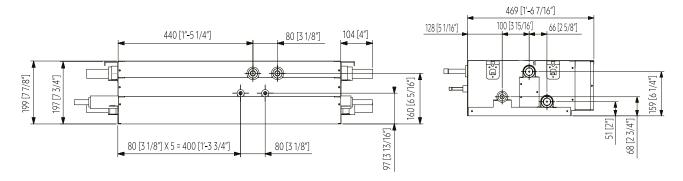
Mode Control Unit (MCU)

MCU-SINEKIN Units: mm [inches]



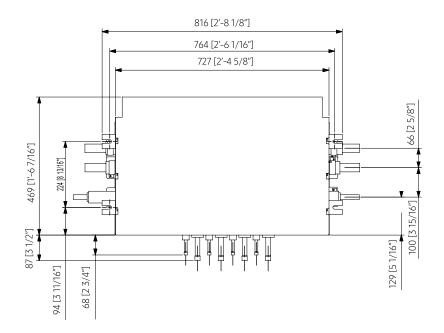
MCU-S2NEK2N Units: mm [inches]

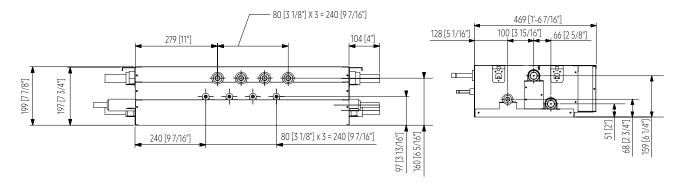




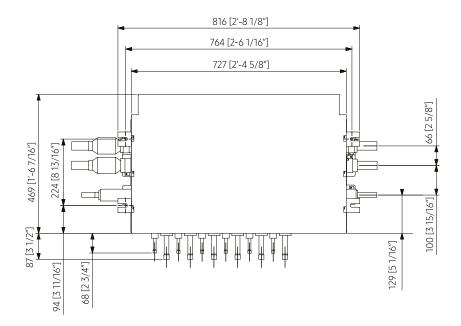
Mode Control Unit (MCU)

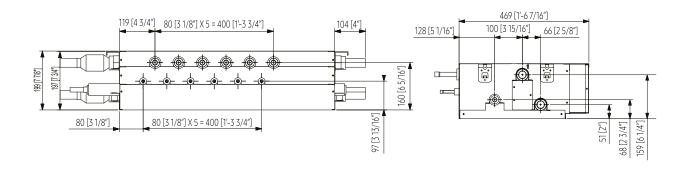
MCU-S4NEK3N Units: mm [inches]





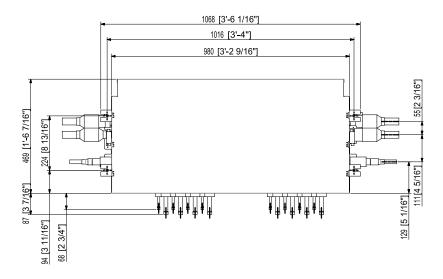
MCU-S6NEK2N Units: mm [inches]

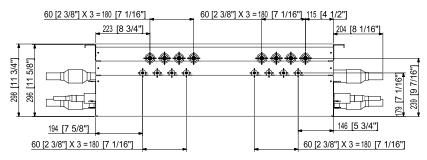


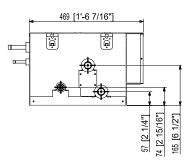


Mode Control Unit (MCU)

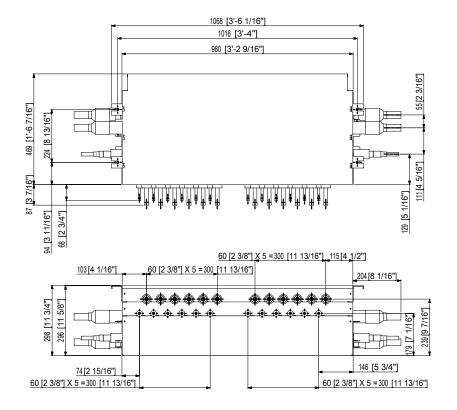
MCU-S8NEK1N Units: mm [inches]

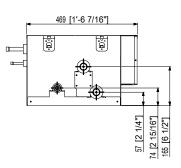






MCU-S12NEK1N Units: mm [inches]





AHU Kit for Outdoor Unit

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







| | Model | | | | AHU Kit | | |
|--------------------------|--------------------------------------|-------------|-------------|-----------------------------|---------------------------------------|-----------------------------|--|
| | | | | MXD-K025AN | MXD-K050AN | MXD-K075AN | |
| Connectable Outdoor | | | | HP/HR | HP/HR | HP/HR | |
| Power Supply | | | Ф, #, V, Hz | 1Φ, 2, 220-240 V, 50/60 Hz | 1Ф, 2, 220-240 V, 50/60 Hz | 1Ф, 2, 220-240 V, 50/60 Hz | |
| Design Recommendation | AHU Capacity Allowance | Max. | kW | 8.8 | 17.5 | 24.9 | |
| | | | МВН | 30 | 60 | 85 | |
| | | Min. | kW | 6.3 | 12.6 | 18.9 | |
| | | | мвн | 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 | or EVA. IN | | Туре/Ф | 103HW/6Φ | 103HW/6Φ | 103HW/6Φ | |
| | | | m/mm² | 10 m/2*0.75 mm ² | 10 m/2*0.75 mm ² | 10 m/2*0.75 mm ² | |
| | EVA. OUT | | Туре/Ф | 103HW/7Φ | 103HW/7Φ | 103HW/7Φ | |
| | | | m/mm² | 10 m/2*0.75 mm ² | 10 m/2*0.75 mm ² | 10 m/2*0.75 mm ² | |
| | Room | | Туре/Ф | 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 | | - | R410A | 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 | HP |
| 1Ф, 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 | OA (Fluorinated greenhouse gas, GWP= | 2,088) |
| INCLUDED | NOT INCLUDED | - |
| 7 | - | 7 |
| 23.0 | - | 23.0 |
| 415 x 102 x 170 | - | Accessory for MCM-D201N, ordere separately (1 per10HP) |
| 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.

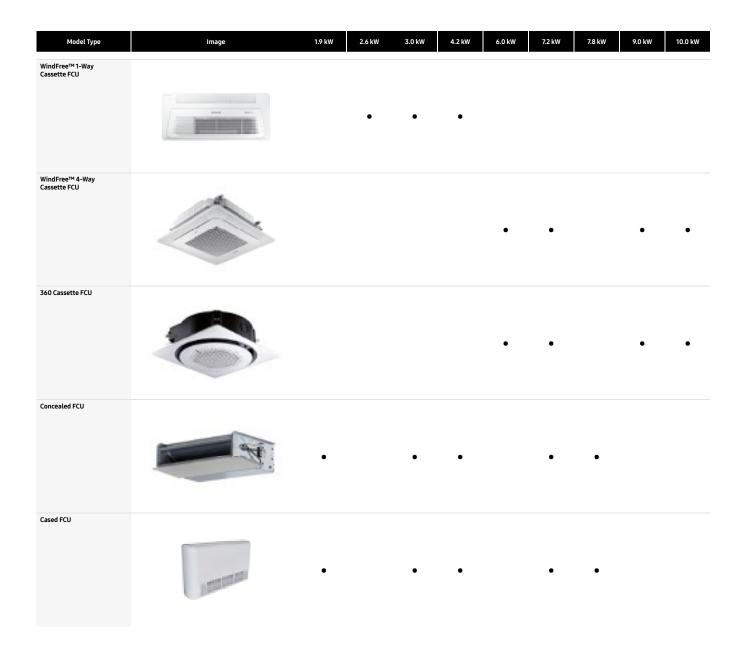
Combination guide outdoor

Modulation guide

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

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

Line-up indoor



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 |

 $^{^{\}rm 1}$ Concealed FCU and Cased FCU are third party products

Nomenclature

Indoor units



| 1 | Classification | AG | Chiller/Fan Coil Unit (FCU) |
|---|------------------|----|--|
| 2 | Capacity | | x1/10 kW (3 digits) |
| | | | 2016 |
| | | М | 2017 |
| 3 | 3 Version | N | 2018 |
| | | т | 2020 |
| | | Α | 2021 |
| 4 | Product Type | N | Indoor Unit |
| 5 | Product Notation | 1 | WindFree™ 1-Way Cassette |
| 3 | Product Notation | 4 | WindFree™ 4-Way Cassette, 360 Cassette |
| 4 | Feature | D | Deluxe |
| 6 | reature | P | Premium |
| 7 | Voltage Rating | к | 1Ф, 220~240 V, 50/60 Hz |
| 8 | Mode | н | Heat Pump |

Indoor units (third party)



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

Outdoor units



| 1 | Classification | AG | Chiller (HVM Chiller) | |
|---|-------------------------|---------------|-------------------------|--|
| 2 | Capacity | kW (3 digits) | | |
| | | К | 2016 | |
| 3 | Version | М | 2017 | |
| | | N | 2018 | |
| 4 | Product Type | S | SET HVM Chiller | |
| 5 | Product Notation | V | Inverter | |
| 6 | Feature | А | Non-pump | |
| 7 | 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 |
| 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 | Α | 19.6 | 29.6 | 41.2 |
| | • • • • | Heating | Α | 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 in | | W/W | 3.4 | 3.0 | 2.5 |
| , | COP Nominal Heating (pump input is not i | | W/W | 3.55 | 3.20 | 2.85 |
| | ESEER (Pump input is not included) | netuucuy | W/W | 5.7 | 5.4 | 5.0 |
| an | Type | | - | Axial Fan | Axial Fan | Axial Fan |
| un | Number of Fans | | | Axiat Faii | 2 | Axiat raii |
| | Airflow Rate | | m³/min | 364 (182 x 2) | 364 (182 x 2) | 392 (196 x 2) |
| | All LOW Rate | | l/s | 6,067 | | 6,535 |
| | External Static Pressure | Max. | mmAq | 8.00 | 6,067 8.00 | 8.00 |
| | External static Pressure | Max. | • | | | |
| | | | 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 |
| Water Side Heat Type Exchanger Water Flow Rate (Cooling/Heating) Pressure Drop (Set. Nominal) Max. Operating Pressure | | | - | Brazing Plate | Brazing Plate | Brazing Plate |
| | | | l/min | 120/120 | 160/160 | 186/200 |
| | · · · · · · · · · · · · · · · · · · · | | kPa | 60 | 100 | 120 |
| | | 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 |
| Viring Connections | Communication | Min. | mm² | 0.75 | 0.75 | 0.75 |
| | | Remark | | F1, F2 | F1, F2 | F1, F2 |
| tefrigerant | Туре | | - | R410 | 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 |
| xternal 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 |
| perating 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 |
| perating Water Flow | Water Flow Rate | | l/min | 60~240 | 80~320 | 93~400 |
| Range | Minimum Water Storage in the System | | L | 294 | 392 | 490 |
| Operating Ambient | Cooling | | °C | -15.0~48.0 | -15.0~48.0 | -15.0~48.0 |
| emperature Range | - | | | | | |

Accessories

















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

HVM Chiller

Units: mm [inches] AG042/056/070KSVANH/EU Detail A 80 3 [2'-7 1/2"] [5′-13/4″] pitch of foundation bolt holes pitch of foundation bo It holes 4-20 x 12 SLOTHOLE Foundation bolt holes

| 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) |
| 4 | Communication wiring conduits | Knock-out hole (front) |
| 5 | Power wiring conduits | Knock-out hole (side) |
| 6 | 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 |
|-------------------|-----------------------------|---|-----------------|-------------------------|-------------------------|------------------------|
| ower Supply | | | Ф, V, Hz | 1Ф, 220-240 V, 50/60 Hz | 1Ф, 220~240 V, 50/60 Hz | 1Ф, 220~240 V, 50/60 H |
| 1ode | | | - | HP | HP | HP |
| erformance | 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 | Α | 0.14 | 0.19 | 0.29 |
| | | Heating | Α | 0.14 | 0.19 | 0.29 |
| leat Exchanger | Туре | | - | Fin & tube | Fin & tube | Fin & tube |
| an | 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 |
| an 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 |
| iping 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 pipe |
| | Drain Pipe | | ø, mm | VP20 (OD 26, ID 20) | VP20 (OD 26, ID 20) | VP25 (OD 32, ID 25) |
| ound | 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 |
| asing | Material | | - | Plastic | Plastic | Plastic |
| anel | Panel Model | | - | PC1NWFMBN(WindFree™) | PC1NWFMBN(WindFree™) | PC1BWFMBN(WindFree |
| dditional | Drain Pump | Туре | - | Built-in | Built-in | Built-in |
| ccessories | | Max. Lifting Height/ Displacement | mm/(cc/ min) | 750/400 | 750/400 | 750/400 |
| | | | | | | |

Accessories











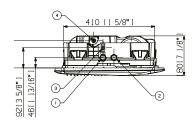


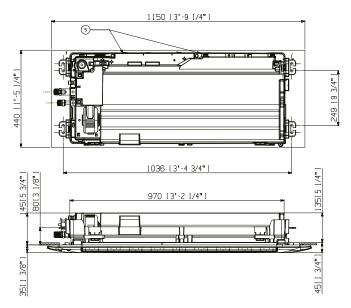


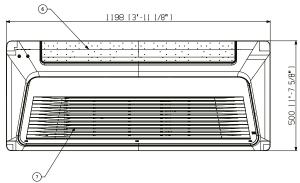
| Panel WindFree™ (optional) | Panel WindFree™ (optional) | FCU Interface Module | Wireless Remote Controller | Simple Type Controller | Touch Controller | Wired Remote Controller |
|-------------------------------|-------------------------------|----------------------|-------------------------------|------------------------|------------------|----------------------------|
| PC1NWFMBN | PC1BWFMBN | MIM-F10N | AR-EH03E | MWR-SH00N | MWR-SH11N | MWR-WG00*N |

WindFree™ 1-Way Cassette FCU

AG026/032TN1DKH/EU
Units: mm [inches]



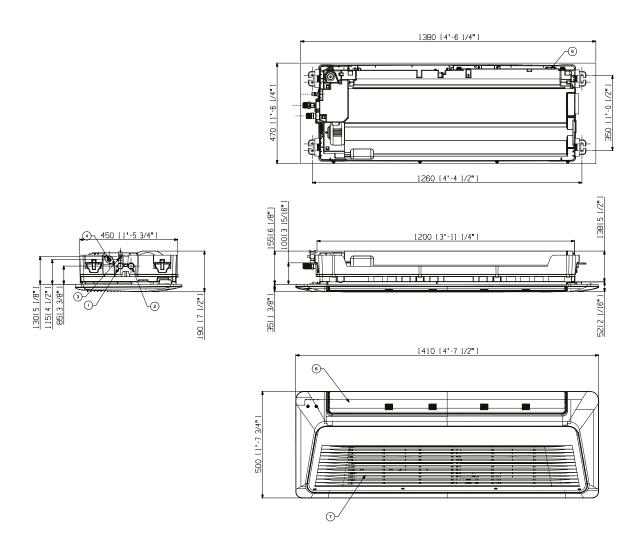




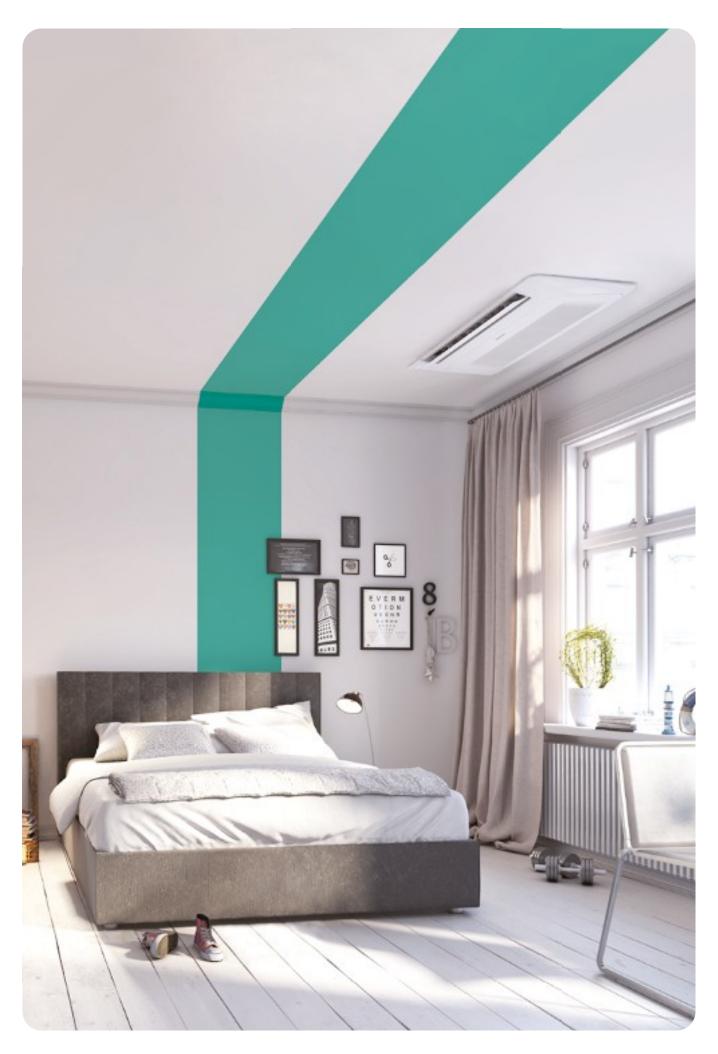
| NO | Name | Description |
|----|--|---------------------|
| 1 | Water pipe connection out | PF Male 3/4" (20A) |
| 2 | Water pipe connection in | PF Male 3/4" (20A) |
| 3 | Airvent valve | |
| 4 | Drain hose | VP20 (OD 26, ID 20) |
| 5 | Power supply/communication wiring conduits | |
| 6 | Air discharge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

WindFree™ 1-Way Cassette FCU

AG042TN1DKH/EU Units: mm [inches]



| 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 H |
| Mode | | | - | HP | HP | HP | HP |
| Performance | Capacity (Nominal) | Cooling | kW | 6.0 | 7.2 | 9.0 | 10.0 |
| | | Heating | kW | 7.3 | 8.5 | 10.0 | 10.7 |
| Power | PowerInput (Nominal) | Cooling | w | 50 | 73 | 82 | 99 |
| | | Heating | w | 50 | 73 | 82 | 99 |
| | Current Input (Nominal) | Cooling | Α | 0.37 | 0.50 | 0.58 | 0.79 |
| | | Heating | Α | 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 |
| Vater | Water Flow Rate | Cooling | l/min | 17.5 | 20.8 | 26.0 | 28.9 |
| | Water Flow Rate | Heating | l/min | 21.1 | 24.5 | 28.9 | 30.9 |
| | Pressure Drop | Cooling | kPa | 27.0 | 36.0 | 46.8 | 56.3 |
| | Pressure Drop | Heating | kPa | 37.3 | 48.6 | 56.3 | 63.4 |
| Piping Connections | Liquid Pipe (IN) | | Туре | PF MALE | PF MALE | PF MALE | PF MALE |
| | | | ø, mm (inch) | 20A (3/4) | 20A (3/4) | 20A (3/4) | 20A (3/4) |
| | Liquid Pipe (OUT) | | Туре | PF MALE | PF MALE | PF MALE | PF MALE |
| | | | ø, mm (inch) | 20A (3/4) | 20A (3/4) | 20A (3/4) | 20A (3/4) |
| | Heat Insulation | | - | Both inlet/outlet pipes | Both inlet/outlet pipes | Both inlet/outlet pipes | Both inlet/outlet pipe |
| | Drain Pipe | | ø, mm | VP25 (OD 32, ID 25) | VP25 (OD 32, ID 25) | VP25 (OD 32, ID 25) | 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 |
| anel | Panel Model | | - | PC4NUFMAN | PC4NUFMAN | PPC4NUFMAN | PC4NUFMAN |
| Additional Accessories | Drain Pump | Туре | - | Built-in | Built-in | Built-in | Built-in |
| | | 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









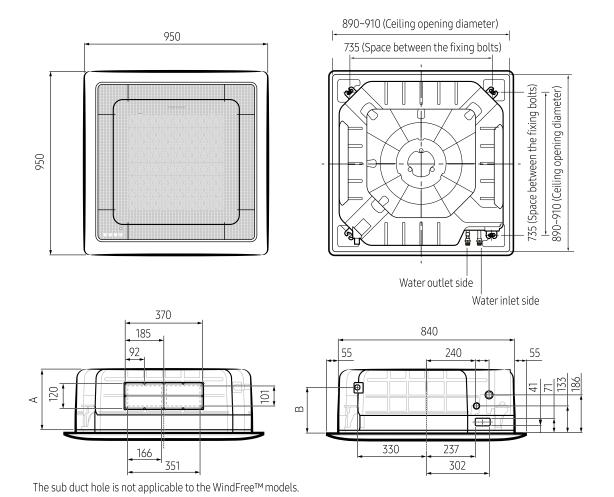




| Panel WindFree™ | FCU Interface Module | Wireless Remote Controller | Simple Type Controller | Touch Controller | Wired Remote Controller |
|-----------------|----------------------|-------------------------------|------------------------|------------------|----------------------------|
| PC4NUFMAN | MIM-F10N | AR-EH03E | MWR-SH00N | MWR-SH11N | MWR-WG00*N |

WindFree™ 4-Way Cassette FCU

AG060/072/090/105AN4DKH/EU
Units: mm [inches]



| Category | | 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. Coandă effect is created even without ceiling.
- 3-Way valve kit (optional).
- Can be controlled by Smartphone via Wi-Fi Kit.

- A front panel is mandatory and can be selected from one of the 4 front panels mentioned in the accessories.
- 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 H |
| 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 pip |
| | Drain Pipe | | ø, mm | VP25 (OD 32, ID 25) | VP25 (OD 32, ID 25) | VP25 (OD 32, ID 25) | VP25 (OD 32, ID 25) |
| Sound | Sound Pressure | (H/M/L) | dB(A) | 40/37/32 | 39/35/33 | 43/38/33 | 45/39/33 |
| | Sound Power | Cooling | dB(A) | 57 | 58 | 60 | 62 |
| Dimensions | Net Weight | | kg | 21.0 | 25.0 | 25.0 | 25.0 |
| | Net Dimensions (W × H × D) | | mm | 947 x 281 x 947 | 947 x 365 x 947 | 947 x 365 x 947 | 947 x 365 x 947 |
| Casing | Material | | - | - | - | - | - |
| Panel | Panel Model | | White | PC4NUDMAN | PC4NUDMAN | PC4NUDMAN | PC4NUDMAN |
| | | | | PC4NUNMAN | PC4NUNMAN | PC4NUNMAN | PC4NUNMAN |
| | | | Black | PC4NBDMAN | PC4NBDMAN | PC4NBDMAN | PC4NBDMAN |
| | | | | PC4NBNMAN | PC4NBNMAN | PC4NBNMAN | PC4NBNMAN |
| Additional | Drain Pump | Туре | - | Built-in | Built-in | Built-in | Built-in |
| Accessories | | Max. Lifting Height/ Displacement | mm/(cc/ min) | 750/400 | 750/400 | 750/400 | 750/400 |
| | | 3-Way Valve Kit | (optional) | ACL-A60V3 | ACL-A60V3 | ACL-A60V3 | ACL-A60V3 |
| | Filter | | | Microfibrous filter | Microfibrous filter | Microfibrous filter | Microfibrous filter |

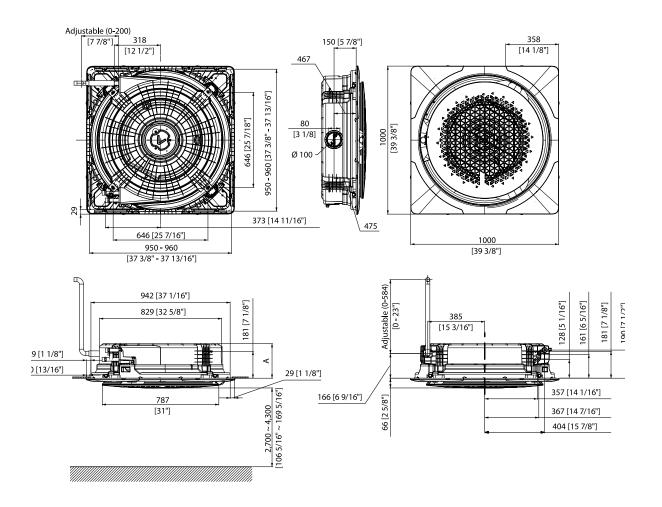
Accessories



Dimensional drawings

360 Cassette FCU

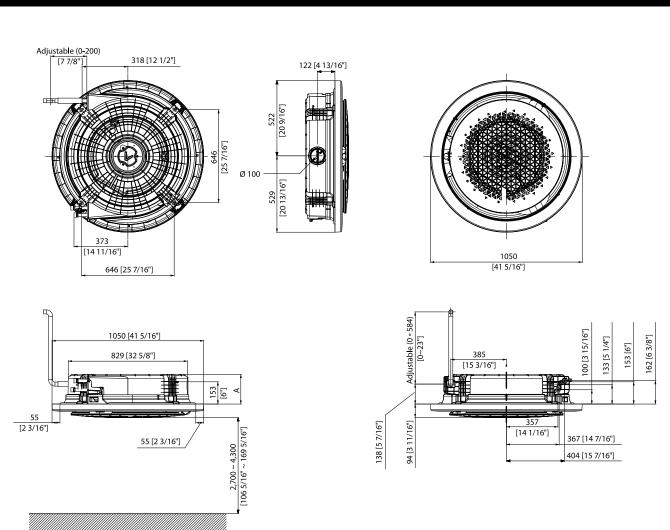
AG060/072/090/105MN4PKH/EU
Units: mm [inches]



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

360 Cassette FCU

AG060/072/090/105MN4PKH/EU Units: mm [inches]



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



Concealed FCU

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

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







| | | Model | | ACL-18DF | ACL-25DF | ACL-35DF | |
|--------------------|----------------------|----------------------------------|-----------------|--------------------------------|---|--------------------------------|--|
| 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 | |
| . c.rormanec | (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 | PowerInput | Cooling (H/M/L) | W | 53/36/24 | 56/43/29 | 90/50/40 | |
| · owei | (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 | | | | 0.45 | |
| Hank Frenkaman | T | Heating | A - | 0.26 | 0.28 | | |
| Heat Exchanger | Туре | | | Fin & tube | Fin & tube | Fin & tube | |
| Fan | Туре | | - | Double suction centrifugal fan | Double suction centrifugal fan | Double suction centrifugal fan | |
| | 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 | |
| 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 (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 | |
| | | | | , AE, 2E) | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | - AEEA | |











| FCU Interface Module | FCU Kit | Touch Controller | Wired Remote Controller | Simple Type Controller |
|----------------------|----------|------------------|----------------------------|------------------------|
| MIM-F10N | MIM-F00N | MWR-SH11N | MWR-WG00*N | MWR-SH00N |

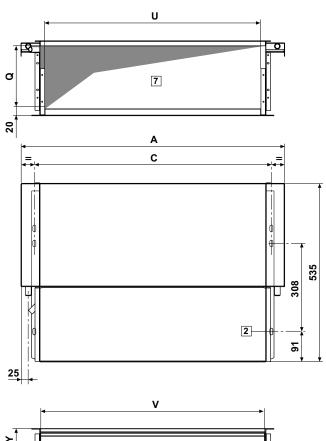


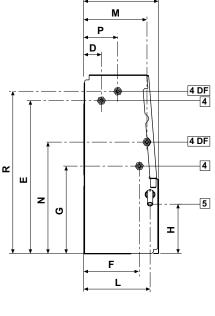


| | ACL-55DF | ACL-65DF | | |
|----------|------------------------|--------------------------------|--|--|
| 1¢ 22 | 0~240 V, 50/60 Hz | 1Ф, 220~240 V, 50/60 Hz | | |
| 14,22 | HP | HP | | |
| 7 | 19/5.69/4.32 | 7.78/6.07/4.00 | | |
| 7 | 19/5.69/4.32 | 8.37/6.53/4.39 | | |
| | 182/127/86 | 244/169/109 | | |
| | 182/127/86 | 244/169/109 | | |
| | 0.90 | 1.20 | | |
| | 0.90 | 1.20 | | |
| | Fin & tube | Fin & tube | | |
| Double s | uction centrifugal fan | Double suction centrifugal fan | | |
| | 3 | 3 | | |
| | 16.8/12.8/9.5 | 23.2/17.0/10.7 | | |
| | 3-step AC | 3-step AC | | |
| | 182/127/86 | 244/169/109 | | |
| | 21.1 | 22.9 | | |
| | 20.2 | 24.2 | | |
| | 39 | 42 | | |
| | 35 | 47 | | |
| | Female | Female | | |
| | 3/4 | 3/4 | | |
| | Female | Female | | |
| | 3/4 | 3/4 | | |
| | - | - | | |
| | - | - | | |
| | 53/46/39 | 59/52/41 | | |
| | 61/54/47 | 67/60/49 | | |
| | 37.0 | 37.0 | | |
| 1,3 | 55 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 | | |
| Polypi | opylene washable | Polypropylene washable | | |

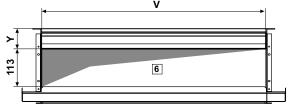
Concealed FCU

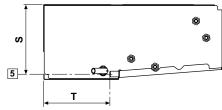
ACL-**DF Units: mm [inches]





В





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

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



Cased FCU

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

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







| | | | | | 100 | 1 | | |
|---------------------------|----------------------------|--------------------------|------------|------------------|--------------------------------|--------------------------------|--------------------------------|--|
| | | Model | | | ACL-18DG | ACL-25DG | ACL-35DG | |
| Power Supply | | | | Ф, V, Hz | 1Ф, 220~240 V, 50/60 Hz | 1Ф, 220~240 V, 50/60 Hz | 1Ф, 220~240 V, 50/60 Hz | |
| Mode | | | | - | HP | HP | HP | |
| Performance | Capacity | Cooling (H/M/L) | | kW | 1.91/1.66/1.34 | 2.87/2.34/1.73 | 4.24/3.20/2.47 | |
| | (Nominal) | Heating (H/M/L) | | kW | 2.15/1.81/1.50 | 2.91/2.35/1.73 | 4.24/3.24/2.47 | |
| Power | Power Input | Cooling (H/M/L) | | W | 53/36/24 | 56/43/29 | 90/50/40 | |
| | (Nominal) | Heating (H/M/L) | | W | 53/36/24 | 56/43/29 | 90/50/40 | |
| | Current Input (Nominal) | 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 fan | |
| | 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 (OUT) | Туре | | - | Female | Female | Female | |
| | (55.) | 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 Accessories | Drain Pump | Туре | | optional | ACL-ADP | ACL-ADP | ACL-ADP | |
| | | Max. Lifting Height/Disp | lacement | 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 | |











| FCU Interface Module | FCU Kit | Touch Controller | Wired Remote Controller | Simple Type Controller |
|----------------------|----------|------------------|----------------------------|------------------------|
| MIM-F10N | MIM-F00N | MWR-SH11N | MWR-WG00*N | MWR-SH00N |

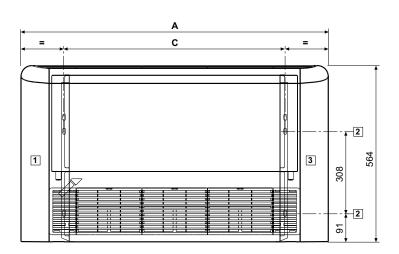


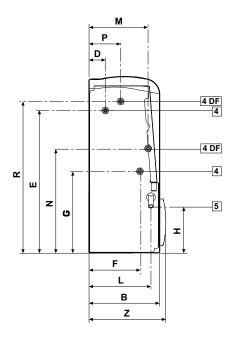


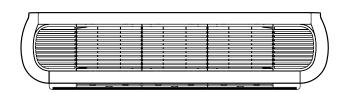
| ACL-55DG | ACL-65DG |
|--------------------------------|--------------------------------|
| 1Ф, 220~240 V, 50/60 Hz | 1Ф, 220~240 V, 50/60 Hz |
| HP | HP |
| 7.19/5.69/4.32 | 7.78/6.07/4.00 |
| 7.19/5.69/4.32 | 8.37/6.53/4.39 |
| 182/127/86 | 244/169/109 |
| 182/127/86 | 244/169/109 |
| 0.90 | 1.20 |
| 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 |

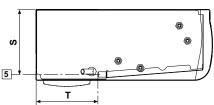
Cased FCU

ACL-**DG Units: mm [inches]



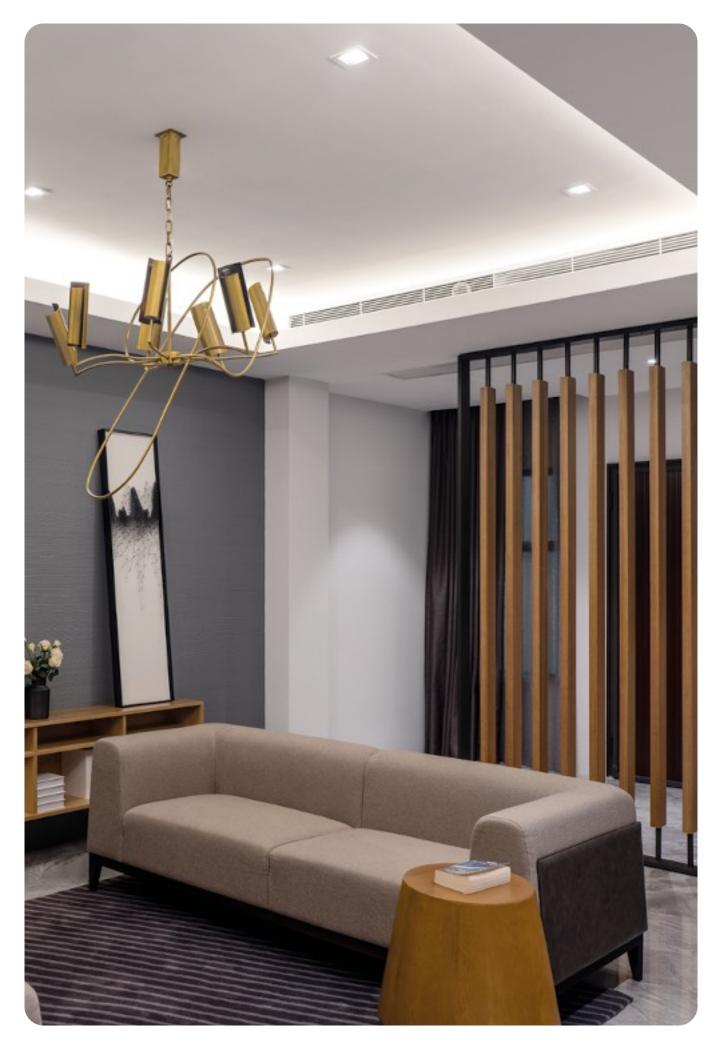






| NO | Name | Description |
|----|--|---------------------|
| 1 | Water pipe connection out | PF Male 3/4 (20A) |
| 2 | Water pipe connection in | PF Male 3/4 (20A) |
| 3 | Airventvalve | |
| 4 | Drain hose | VP25 (OD 32, ID 25) |
| 5 | Power supply/communication wiring conduits | |
| 6 | Air discharge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

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







- 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 | 1Ф, 2, 220–240 V, 50/60 Hz | 1Ф, 2, 220-240 V, 50/60 Hz | 1Ф, 2, 220-240 V, 50/60 Hz |
| Performance | Air Volume | | | m³/h | 260 | 350 | 500 | 800 | 1,000 |
| | Temperature | Cooling Turbo/High/Low | | % | 70/70/74 | 70/70/74 | 70/70/74 | 70/70/74 | 70/70/74 |
| | Exchange Efficiency | Heating | Turbo/High/Low | % | 74/74/75 | 78/78/79 | 74/74/75 | 77/77/78 | 74/74/75 |
| | Effective | Cooling | Turbo/High/Low | % | 50/50/55 | 50/50/55 | 50/50/55 | 50/50/55 | 50/50/55 |
| | Enthalpy Exchange Efficiency | Heating | Turbo/High/Low | % | 70/70/76 | 70/70/76 | 70/70/76 | 70/70/76 | 70/70/76 |
| Power | Power Input | | Turbo/High/Low | w | 115/80/45 | 115/80/50 | 175/120/65 | 330/230/125 | 450/280/155 |
| | Current Input | | Turbo | Α | 0.7 | 0.7 | 1.1 | 2.1 | 2.9 |
| an | Airflow Rate | | Turbo/High/Low | m³/h | 260/250/180 | 350/350/256 | 500/500/360 | 800/800/560 | 1,000/1,000/690 |
| | External Static P | External Static Pressure | | Pa | 100/65/55 | 155/100/83 | 165/100/85 | 155/90/80 | 155/90/75 |
| loise 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 |
| ield Wiring | Power Source Wi | re | | mm² | 1.5~2.5 | 1.5~2.5 | 1.5~2.5 | 1.5~2.5 | 1.5~2.5 |
| | Transmission Cal | 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/E | xhaust/Outsid | e Duct Flange (ø) | mm | 150 | 200 | 200 | 250 | 250 |
| Air Filter | | | | - | Pre filter |









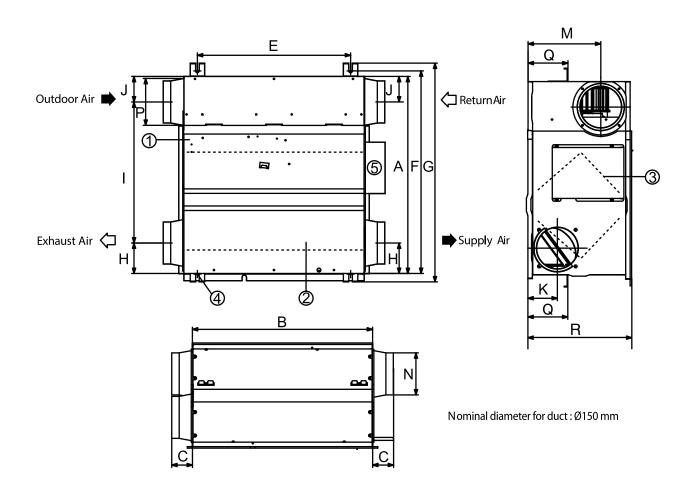
| Differential pressure switch ² | ERV Wired Remote Controller | Wired Remote Controller | CO₂ Sensor |
|---|--------------------------------|----------------------------|------------|
| MOS-P1050 | MWR-VH12N | MWR-WG00*N | MOS-C1 |

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

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

AN026JSKLKN/EU Units: mm [inches]

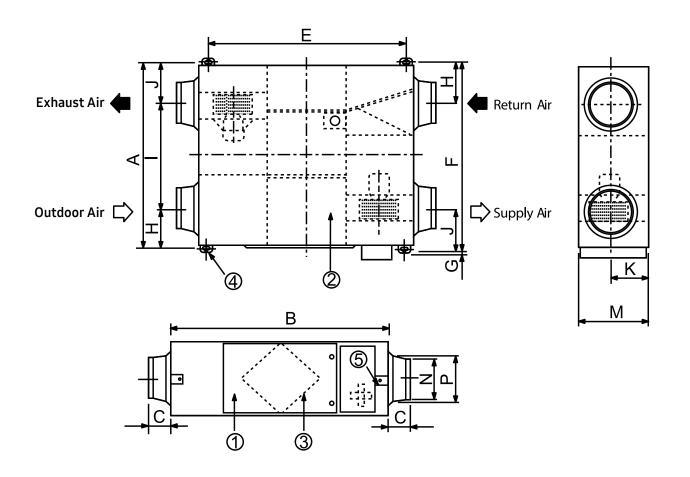


| NO | Name | Description |
|----|--------------------------|-------------|
| 1 | Maintenance cover | 1 |
| 2 | Heat exchange element | 1 |
| 3 | Dust filter | 2 |
| 4 | Hanger | 4 |
| 5 | Electrical component box | 1 |

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

ERV

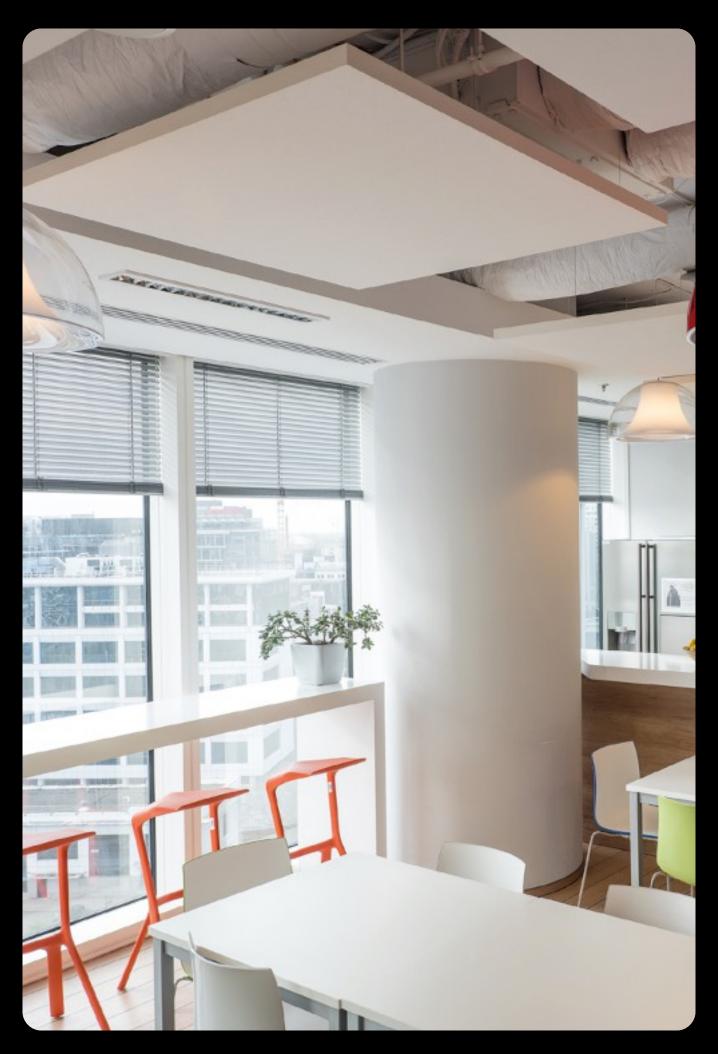
035/050 - 080/100 Units: mm [inches]



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

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

| Model | А | В | С | E | F | G | н | I | 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

- 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.
- Energy recovery ventilation unit with built-in direct expansion coil. 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.
 - Auto Restart function.





| | | 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 Pressu | re | 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 greer | nhouse gas, GWP=2,088) | |
| | Control Method | | | - | EEV | EEV | |
| Sound | Sound Pressure ¹ | | Turbo/High/Low | dB(A) | 36/32/28 | 36/33/31 | |
| | Sound Power | | | dB(A) | 67 | 67 | |
| Dimensions | Net Weight | | | kg | 61.0 | 90.0 | |
| | Net Dimensions (W x H | I x D) | | mm | 1,553 x 270 x 1,000 | 1,763 x 340 x 1,135 | |
| | Supply/Return/Exhaus | 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 les | |
| | Outdoor Air | | | - | -15~40 °C DB, 80 % RH or less | -15~40 °C DB, 80 % RH or le | |
| | Return Air | | | - | 0~40 °C DB, 80 % RH or less | 0~40 °C DB, 80 % RH or les | |
| Air Filter | | | | - | Pre filter | Pre filter | |





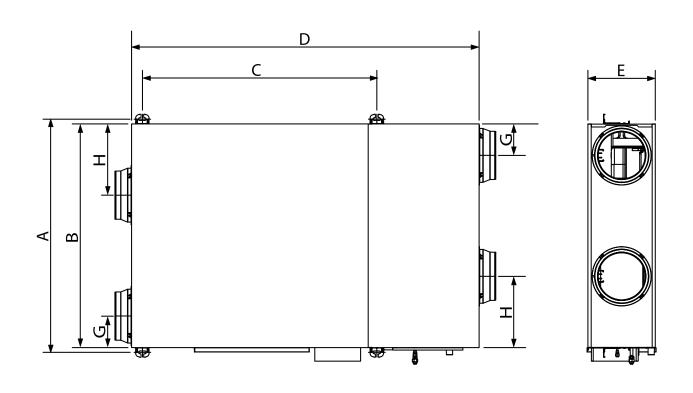


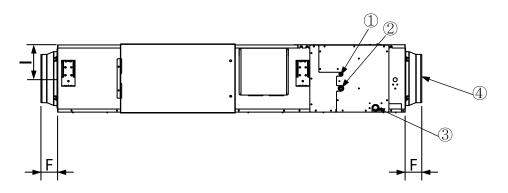
| € -\9 | | | | |
|---|----------------------------|------------|--|--|
| Differential pressure switch ² | Wired Remote Controller | CO₂ Sensor | | |
| MOS DIOFO | MWD WCOO*N | MOS 61 | | |

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

AM***FNKDEH/EU
Units: mm [inches]





| NO | Name | Description | | | | | |
|----|---------------------------|---------------------|-------------|--|--|--|--|
| | | 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 | A | В | С | D | Е | F | G | н | I |
|------------|-------|-------|-------|-------|-----|----|-----|-----|-----|
| 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.
- Only 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 | | | 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 | 14.0 | 22.4 | 28.0 |
| | | Heating | kW | 8.9 | 13.9 | 17.4 |
| Power | Power Input (Nominal) | Cooling | W | 300 | 450 | 600 |
| | | Heating | W | 300 | 450 | 600 |
| | Current Input (Nominal) | Cooling | Α | 2.2 | 3.5 | 4.6 |
| | | Heating | Α | 2.2 | 3.5 | 4.6 |
| leat Exchanger | Туре | | - | Fin & tube | Fin & tube | Fin & tube |
| | Material | | Fin | Al | Al | Al |
| | | | Tube | Cu | Cu | Cu |
| an | Motor | Туре | - | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | | Output x n | W | 183 x 1 | 630 x 1 | 630 x 1 |
| | | Number of Fans | ea | 2 | 2 | 2 |
| | Airflow Rate | H/M/L | m³/min | 18 | 28 | 35 |
| | | | l/s | 300.0 | 466.7 | 583.3 |
| | External Pressure | Min/Std/Max | mmAq | 15.30/20.40/25.50 | 18.40/23.40/29.60 | 20.40/25.50/30.60 |
| | | | Pa | 150.00/200.00/250.00 | 180.00/230.00/290.00 | 200.00/250.00/300.0 |
| 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 | | - | R410 | A(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 | 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 |
| dditional | Drain Pump | Drain Pump | - | MDP-M075SGU2D | MDP-G075SP | MDP-G075SP |
| Accessories | | Max. Lifting Height/ | mm / litres/h | 750/24 | 750/24 | 750/24 |









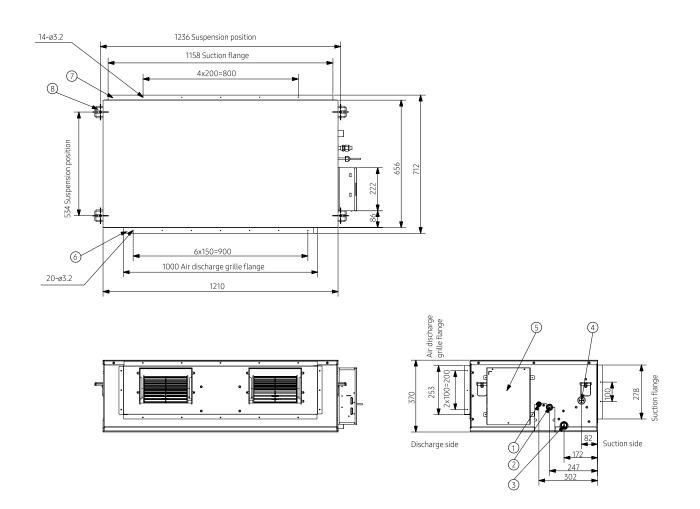


| Wireless Remote Controller | Touch Controller | Wired Remote Controller | Wi-Fi Kit | Wireless Receiver Kit |
|----------------------------|------------------|----------------------------|-----------|-----------------------|
| AR-EH03E | | | | MRK-A10N |
| (to be matched | MWR-SH11N | MWR-WG00*N | MIM-H04EN | (to be matched |
| with MRK-A10N) | | | | with AR-EH03E) |

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

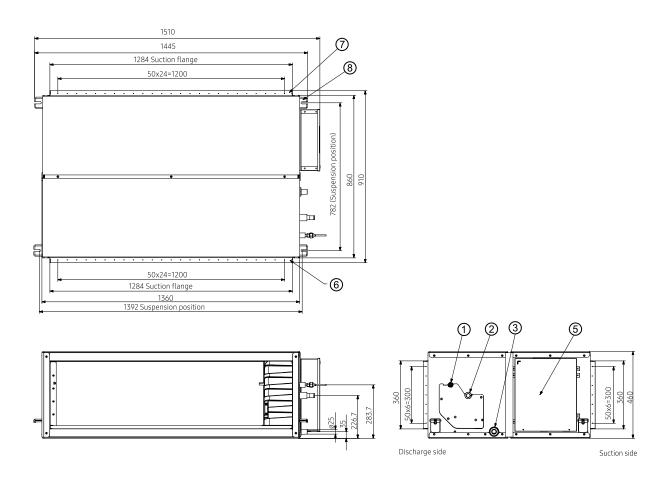
AM140MNEP*H Units: mm [inches]



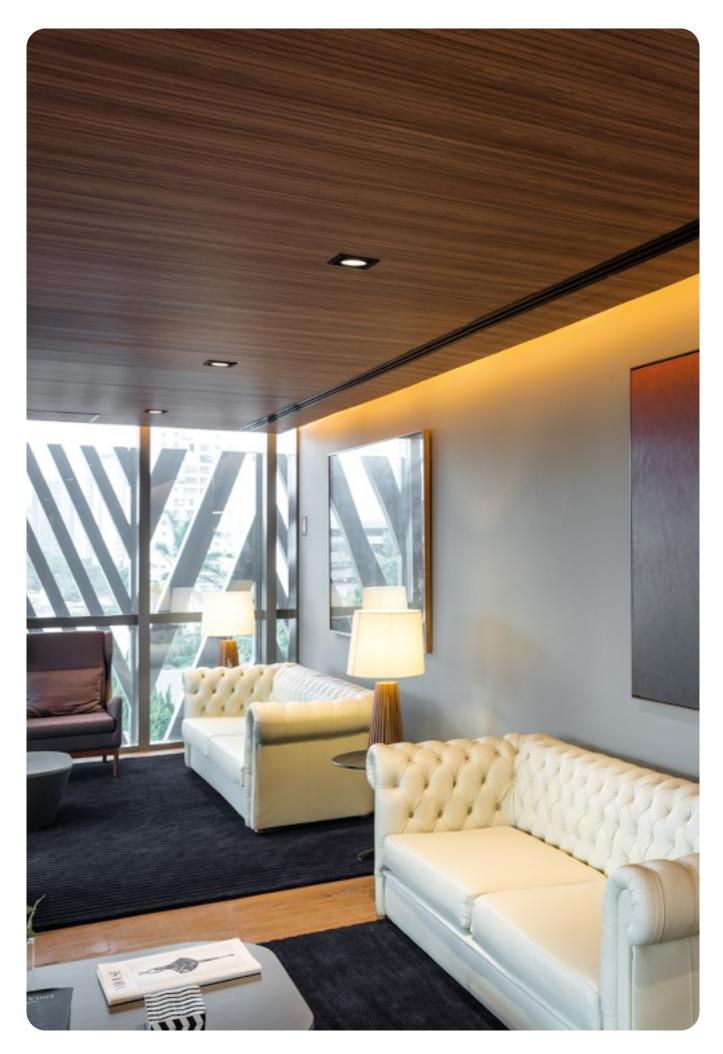
| NO | Name | Description |
|----|--|----------------|
| 1 | Diameter of liquid pipe | ø9.52 |
| 2 | Diameter of air pipe | ø15.88 |
| 3 | Diameter of drain pipe | OD ø25, ID ø20 |
| 4 | Diameter of drain pipe (Optional drain pump) | OD ø25, ID ø20 |
| 5 | Power supply/Communication wiring conduit |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

OAP Duct for DVM S

AM140MNEP*H Units: mm [inches]



| 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 |



Controls





Touch Centralized Controller 2.0

A 253.5mm LCD display with touch controls eliminates the physical buttons from the front. Its minimalist design, which is fully covered in glass with a narrow metallic frame, means it simply blends with any interior style while improving usability.

Operation Summary

Quickly monitor the number of devices in operation or to be serviced at a glance.



Energy Usage Monitor

Efficiently manage energy use by visually comparing the real-time consumption with the previous periods*.



I Detailed view of energy consumption**

- * By day, week, month and year
- ** Available in 2024
- *** The information provided includes estimated figures intended solely for illustrative and indicative purposes. Actual consumption depends on various factors and other usage conditions.

Scheduling

Simply set the operation schedules of multiple devices - all at once or individually.







1930kmh

Samsung To

Air Quality Monitor

Check the real-time air quality of each room in your workplace at a glance.

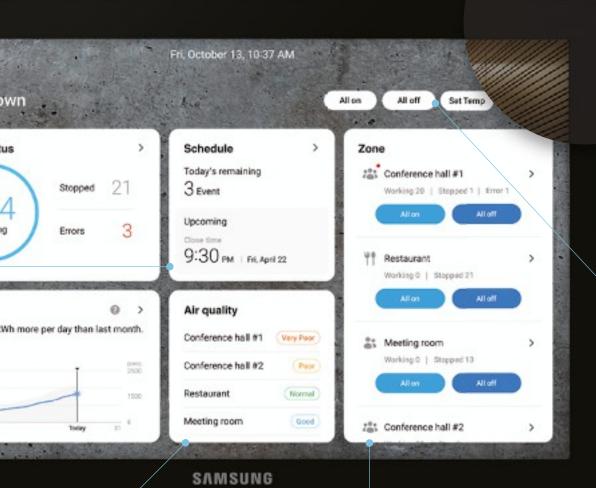


I Detailed view of the real-time air quality

Customizable to harmoniously blend into your space

The cover screen and home screen can be easily customized as you want. Simply select your favorite wallpaper from the gallery or upload your own one* to suit your taste and interior style.

* Only PNG, GIF and JPG format images with a file size of less than 10MB are supported.



Zone Control

Set zones, based on the location, usage and operating time, to efficiently monitor and control devices simultaneously.



Multi-device Control

Control all devices at once, including power on/ off, modes and temperatures.



- * The screen image is for illustrative purposes only and may differ from the actual user interface on your controller based on the OS version and actual usage situation
 * The above product image has the same dimensions as the actual product.
 * Available in 2024. Only available when using certain indoor units that have an Air Quality Sensor.

Intuitive Control

SmartThings Style UI

With a simplified layout and icons, you can easily monitor and control the entire system from one spot. If you are familiar with SmartThings then you will intuitively know how to use it.

- Consistent user experience across Samsung appliances, based on SmartThings and One UI
- High Visibility with a simple layout and icons
- 2D Layout view*
- * Available in 2024.



Efficient Management

Dashboard on the Home Screen

Intuitively check the current status and easily control everything in your workplace. From scheduling to the MDS*, you can automate the performance of the air conditioning to optimize your comfort and energy savings.

- One-stop scheduling on multiple devices and zones
- Quick access to the settings for the MDS*
- Electric Current Control** for balancing the energy load
- * MDS: Motion Detection Sensor. ** Available in 2024.



Effortless Service

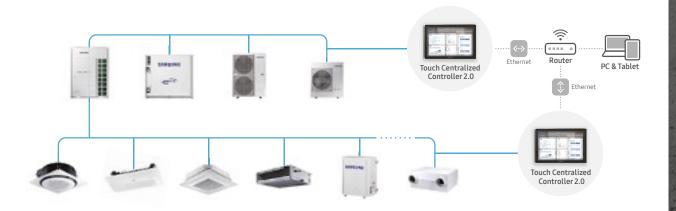
Service History

Get a real-time notification when an error occurs, and view the history of any troubleshooting at a glance. Based on the accumulated data, errors can be quickly addressed and solved.

- Real-time notificiation of errors
- Troubleshooting history management of up to 1 year



System Configuration



- * Please contact your installer or sales expert of Samsung Air Conditioner to connect to ventilation systems (* shown above), inluding the Samsung ERV and ERV Plus.

 * Ethernet connectivity will be available in 2024.

 * The number of devices (indoor and outdoor units) that can be connected will differ based on the location of the controller's connection ports.

Specifications

- Dimensions (WxHxD in mm) 245.7 x 164.5 x 30.9
- Display Size (WxH in mm) 215.2 x 134 (253.5mm TFT LCD)
- Display Resolution (WxH in px) 1,280 x 800



| | | Model Name | | MCM-A300BN* | | | | |
|-------------|--------------------------------|-----------------------|---------------|--|--|--------------|----------|------|
| Connection | Indoor Units | | | Up to 128 | | | | |
| Layer | er Set (F1/F2) Control (R1/R2) | | | D | | | | |
| | | | | 0 | | | | |
| Hardware | Power Supply | | | DC 12V (Adapter: AC 100-240V, 50/60Hz) | | | | |
| | Memory | RAM | | 3 GB | | | | |
| | | Flash | | 16 GB | | | | |
| | External | DI/DO | | 2 EA / 2 EA | | | | |
| | Port | SD Card Slot | | Micro SD1EA | | | | |
| | | RJ45 (LAN) | | 1 EA (1 Gbps) | | | | |
| | | | | | | RS485 (NASA) | Quantity | 2 EA |
| | | | F1, F2 Wiring | 1 Outdoor Unit per Port / Up to 64 Indoor Units per Port | | | | |
| | | | R1, R2 Wiring | Up to 16 Outdoor Units per Port (including Module) / Up to 128 Indoor Units per Port (Port 1 + Port 2) | | | | |
| Software | Energy Saving | | | D | | | | |
| (Function) | Power Consump | tion | | D | | | | |
| Air Quality | | | N N | | | | | |
| Expandable | In-site (Connect | ion with Local Networ | k) | PC/Tablet | | | | |
| Device | Supported Brow | rser (PC/Tablet) | | Web (Chrome) | | | | |

 $[*] Some features (including 2D Layout View, Trend Data (Back-up), Energy Saving, Expandable Device) will be available in 2024. * Features and specifications are subject to change without notice for the improvement of performance.$

Line-up

| Р | roduct | Model | lmage | Matchable Products |
|----------------------------|-------------------------------------|--|-------------------------------|--|
| Individual Control System | Wireless Remote Controller | AR-EH03M AR-EH03E AR-EH04E | \$100 0.00 0.00 0.00 | FJM, CAC, DVM, FCU *only for FCU 1-Way/4-Way Cassette |
| | Wireless Remote Controller | AR-KH03E AR-KH04E | 9 | CAC, DVM, FCU *only for 360 Cassette |
| | Wired Remote Controller | MWR-WG00JN MWR-WG00KN | * · · · · · · · | FJM, CAC, DVM, ERV, FCU |
| | | MWR-WWOON MWR-WW10N MWR-WW10JN MWR-WW10KN | | DVM *only for Hydro unit |
| | Simple Type Controller | MWR-SH00N | - | CAC, DVM, FCU |
| | Touch Type Controller | MWR-SH11N | EB) 222 | CAC, DVM, FCU (with WindFree™ function) |
| | ERV Wired Remote Controller | MWR-VH12N | 15 | ERV |
| | Wireless Receiver Kit | MRK-A10N | 1 | CAC, DVM *only for duct models |
| Centralised Control System | ON/OFF Controller | MCM-A202DN | | FJM, CAC, DVM, ERV Plus, HVM Chiller |
| | Touch Centralised Controller 2.0 | MCM-A300BN | NEW | 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 | Image | Matchable Products |
|------------------------------------|---|--|-------------------|--------------------------------------|
| Integrated Management System | DMS2.5 | MIM-D01AN | - | FJM, CAC, DVM, ERV Plus, HVM Chiller |
| | S-NET3 | MST-P3P | | |
| | b.loT Lite Software | MST-BL1A | And Additional of | |
| Gateway & Interface | BACnet Gateway | MIM-B17BN | | FJM, CAC, DVM, ERV Plus, HVM Chiller |
| | LonWorks Gateway | MIM-B18BN | | FJM, CAC, DVM, ERV Plus, HVM Chiller |
| | External Contact Interface Module | MIM-B14 (KEY TAG) MIM-B14A (LEAK DETECTION) | | RAC, FJM, CAC, DVM, HVM Chiller |
| | PIM (Pulse Interface Module) | MIM-B16N | - | FJM, CAC, DVM, ERV Plus, HVM Chiller |
| | MODBUS Gateway | МIM-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 | SAMSON | Concealed & Cased FCU |
| | FCU Interface Module | MIM-F10N | | FCU |
| Installation/ Test Run Solution | S-Converter | MIM-CO2N | 2.4. | |
| Others | External Room Sensor | MRW-TA | 1000 | FJM, CAC, DVM |
| | Operation Mode Selection Switch | MCM-C200 | 2.5 | |
| | MTFC (Multi-Tenant Function Controller) | MCM-C210N | | |
| | | | | |

Compatibility guide

| Classification | Product | Model | lmage | | Compatibility | |
|---|--|----------------------|-----------|-----|---------------|--------------|
| | | | | DVM | HVM Chiller | FCU1W/4W/360 |
| Individual Control System | Wireless Remote Controller | AR-EH03E | Fig. 6000 | • | | • |
| Individual Control System Wireless Remote Controller Wireless Remote Controller (360 Cassette only) Wired Remote Controller Wired Remote Controller MWR-WGOONN MWR-WW00NN (DVH Hydro) Simple Type Controller MWR-SH11N ERV Wired Remote Controller Wireless Receiver Kit Wireless Receiver Kit MRK-A10N Centralised Control System Controller MCM-A300BN Controller MCM-A300BN Controller MCM-A202DN Wi-Fi Kit MIM-H04EN Module Controller MCM-A00N Integrated Management System DMS 2.5 MIM-D01AN Integrated Management System DMS 2.5 MIM-B17BN Lonworks Gateway MIM-B17BN Lonworks Gateway MIM-B18BN Modbus Interface Module MIM-B19N External Contact Interface Module Converter (R5485-NASA) ERV interface Module Converter (R5485-NASA) | | • | | • | | |
| | Wired Remote Controller | | * 12.2 | • | | • |
| | | MWR-WW10*N | | • | | |
| | Simple Type Controller | MWR-SH00N | 100 | • | | • |
| | Touch Controller | MWR-SH11N | 85 TH | • | | • |
| | ERV Wired Remote Controller | MWR-VH12N | 127 | | | |
| | Wireless Receiver Kit | MRK-A10N | 1 | • | | |
| | | MCM-A300BN | NEW | • | | |
| | 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.loT Lite Software | MST-BL1A | | • | | |
| Gateway & Interface | BACnet Gateway | MIM-B17BN | - | • | • | |
| | Lonworks Gateway | MIM-B18BN | - | • | • | |
| | Modbus Interface Module | MIM-B19N | | • | | |
| | PIM (Pulse interface module) | MIM-B16N | - | • | • | |
| | | MIM-B14 | | • | • | |
| | | (refrigerant leakage | | • | | |
| | | MIM-N01 | | • | | |
| | | MIM-N10 | | | | |
| | FCU Interface Module | | | | | • |
| | S-Converter | MIM-C02N | | • | • | |
| Others | External Room Sensor | MRW-TA | | • | | |
| | Operation Mode Selection Switch | MIM-C200 | | • | | |
| | MTFC (Multi-Tenant Function Controller) | MCM-210N | | • | | |

| Compatibility | | | | | |
|---------------|-----|----------|----------|-----|---------|
| FCU 3rd party | ERV | ERV Kit | ERV Plus | PAC | AHU Kit |
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Selection guide









| Model | | MWR-WG00*N | MWR-SH00N | MWR-SH11N | MWR-VH12N |
|----------------------|----------------------------------|----------------------|---------------|---------------------|---------------------|
| Appearance | Dimensions | 120.0 x 120.0 x 19.0 | 75x 122x 16.6 | 94.2 x 122.0 x 19.5 | 75.0 x 122.0 x 16.6 |
| Connection | Indoor units control | • | • | • | |
| | ERV control | • | | | • |
| | Maximum connectable indoor units | 16 | 16 | 16 | 6 |
| 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 | • | • | • | • |
| | Errorlist | • | | | |
| chedule | Weekly schedule | • | | | |
| | Simple ON/OFF timer | | • | • | • |
| onvenient function | Dual set point | • | | | |
| | Multiple languages | • | | | |
| | Built-in room sensor | • | | • | |
| | LCD backlight | • | | • | |
| | Wireless RC restriction | • | • | • | |
| | Child lock | • | • | • | • |
| | Partial button lock | • | • | • | • |
| | Quiet mode | • | • | • | |
| | Sleep mode | • | | • | |
| | Away mode (SAC) | • | | • | |
| | Away mode (ERV) | | | | • |
| | IR receiver | • | | • | |
| | Real-time clock | | | | |
| | Daylight saving time | • | | | |
| | Individual blade control | • | | | |
| | CO ₂ display | o _{ERV} | | | • |
| | Purification mode | O ERV | | | |
| nergy saving | Temperature range limit | • | • | • | |
| | Automatic operation stop | • | | | |
| | Operation time limit | • | | | |
| | Energy consumption monitoring | • | | | |
| | Energy saving mode with ERV | • | | | |
| aintenance | SD slot | • | | | |

Features and Dimensional drawings

Individual Control System

Wireless Remote Controller AR-EH03E / AR-EH03M / AR-EH04E

- 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 / AR-KH04E

- 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

- 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

- Upper/lower temperature limit setting
- Automatically stops operating when not used for certain period of time as set by user

Weekly operation schedule setting

- Weekly operation schedule (A/C only, ERV only, A/C+ERV)
- 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

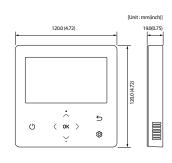
Available languages:

- MWR-WG00JN: English, French, Spanish, Portuguese, Dutch, German
- MWR-WG00KN: English, Italian, Greek, Czech, Slovak, Polish

Simple Type Controller MWR-SH00N

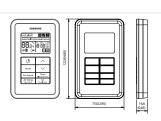
- Simplified wired remote controller
- AC operation ON/OFF control
- Fan speed control
- Setting operation mode and temperature
- Reset filter cleaning alert indicator
- Adjust airflow direction
- Operation ON/OFF timer function











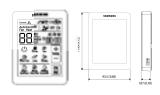
MWR-SH11N

- Bigger display: clear & bright backlight screen with big fonts
- WindFree™ button: control WindFree™ function with just one click
- 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

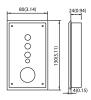
- · Concealed wireless signal receiver
- Filter cleaning sign
- Fan operation display
- Operation Timer setting display
- Operation ON/OFF button
- Operation On display LED (blue)
- Defrost operation display LED (red)









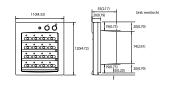


Centralised Control System

ON/OFF Controller MCM-A202DN

- 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





Touch Centralised Controller 2.0 MCM-A300BN

• Large Display: 10.1 inch touch LCD controller

- Ease of use: Provides a familiar user experience by applying the SmartThings UI style
- Simple and modern design (Slim bezel 15mm, Resolution (pixels): 1280 x
- Harmony with interior, easy to select background image
- Controls max. 128 indoor units
- Can display energy usage for each device (Hour/Day/Week/Year)
- Set detailed schedule according to each zone and indoor unit
 History of error helps to check the cause of failure and take quick action
- History of energy usage (Function available in RTS Q3'24)
- Intuitive control (2D layout view) (Function available in RTS Q3'24)
- Remote control by PC/Tablet (In-site) (Function available in RTS Q3'24)
- Net dimensions (W x H x D): 245.7 x 164.5 x 30.9 mm





- 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

NEW

- 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







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



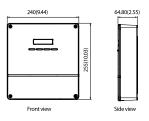


Integrated Control Systems

DMS 2.5 MIM-D01AN

- Built-in web server for PC-independent management and remote access control
- Multiple upper-layer control access (S-NET 3, Web-client)
- Weekly/Daily schedule control
- Power distribution function
- Current time management even during power failure (for 24 hours)
- Emergency stop function with simple contact interface
- Individual/Group control of up to 256 indoor units, AHU and ERV
- User editable control logic
- Accessible level management.
- Dynamic security management
- Operation & error history management
- Data storage in non-volatile memory & SD memory
- Net dimensions (W x H x D): 240 x 255 x 65mm





b.IoT Lite Software MST-BL1A

- Integrated building management solution for operational convenience and energy savings
- Open platform which enables integrated control such as DVM, 3rd party devices via BACnet interface
- Suitable for small & medium sized buildings
- Management and remote access control up to 4000 points
- Convenient control authority setting up to maximum 100 clients
 Easy UI experience, HTML5-based Dashboard with a quick overview of customized data for each user
- Operation & error history management: Information on the operation of indoor and outdoor
- units can be stored in graphs or Excel.
- Weekly/Daily schedule control
- 2D layout overview provides location-based intuitive monitoring by visualizing the location of DVM on the drawings of each building and floor.
- Individual/Group/Zone control
- Intelligent Energy Management help to provide more precise energy saving with data-based intelligent controls via algorithms, energy leakage detection and energy distribution

- Energy consumption trend/ energy target setting/tenant based power usage
- Data-based comfort control prevents overcooling/overheating by calculating the proper temperature in consideration of climate and human factors (clothing and activity)
- Al learning based pre-cooling/heating energy saving control predicts time to reach target temperature by learning temperature change and air conditioner setting
- Price Response Control helps to reduces energy consumption and operation costs by controlling indoor temperature and outdoor unit performance by responding to the rates fluctuating by the time of the day.
- Mandatory Hardware requirements: 2.5 GHz CPU, min 32GB RAM, Hard disk or SSD with capacity of 2 TB, 10/100/1000 Base-T(RJ-45 $\,$ Connector) LAN Card and 1920 x 1080 resolution Display
- Mandatory Software requirements: Windows 10/11 64-bit Chrome browser is recommended (60.x.x.x or newer)



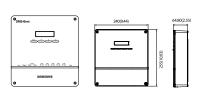
Gateway & Interfaces

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

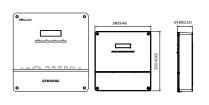




LonWorks Gateway MIM-B18BN

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

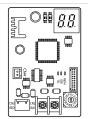


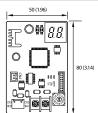
lodbus Interface Module

A BMS or 3rd controller can control a Samsung SAC by using the Modbus protocol.

- BMS unit protocol: Modbus RS485 (2 wires, max. 1,000m)
- Unit connection protocol: Samsung Control Layer Protocol
- Max. No. of connection units: 1 outdoor unit (4 outdoor units 48 indoor units
- Modbus interface module address range : up to 247
- Net dimensions (W x H): 50 x 80mm







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







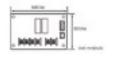
Refrigerant Leak Detect (RLD) Interface Module MIM-B14A

The RLD Interface Module is an interface module that has 2 outputs and 1 input. It is mainly applied to the Refrigerant Leak Detector system.

- · RLD Interface Module function
- To send a refrigerant leakage detection signal from a master DDC to an outdoor unit
- To send a outdoor pump down operation status signal from an outdoor unit to a master DDC
- Net dimensions (W x H x D): 50 x 80 x 35mm







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 outdoor unit
- Supported communication type
- Conventional outdoor unit communication ←→ New upper level controller communication
- New outdoor unit communication ←→ Conventional upper level controller communication



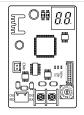




CU Interface Module MIM-F10N

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







FCU Kit MIM-F00N

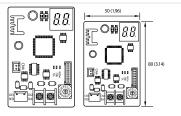
- For 3rdParty FCU
- Communication and control interfacing kit between 3rd party FCU and Samsung control system
- Possible to use wired remote controller
- · Possible to use DMS 2.5, touch centralized controller
- Provides external contact input
- Outputs control signal for FCU fan/water valve
- Size: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



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 groupsSupported communication type
- Conventional ERV communication ←→ New upper level controller communication
- New ERV communication ←→ Conventional upper level controller communication
- New ERV communication \longleftrightarrow New upper level controller communication





Installation/Test Run Solution

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







Others

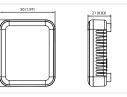
- Indoor unit is operated by MRW-TA instead of
- Wire length: 12 m

or Auto)

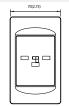
Operation Mode Selection Switch MCM-C200

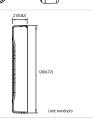
• Mixed operation mode protection

















MTFC (Multi-Tenant Function Controller) MCM-C210N

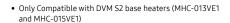
 Multi-tenant function controller is an auxiliary power supply device which allows the indoor unit to turn off (close EEV) normally and maintain communication when the mains power supply is cut.

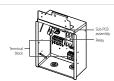
• Outdoor unit operation mode selection (Cooling, Heating

• It is used on sites such as hotels, where individual power is supplied to the indoor unit

Base heater Control Kit AVR-M200GHAX

NEW









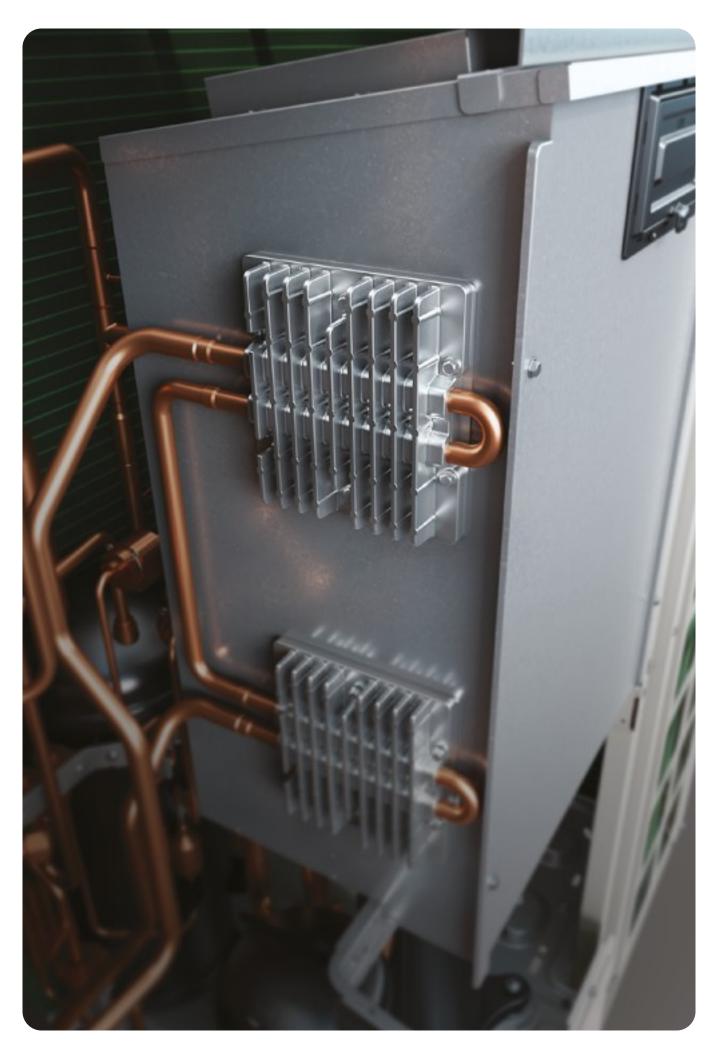


Line-up



| Classification | lmage | Model | Application |
|---|--|---------------|---|
| Drain Pump | 厚 | 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) |
| | Pas- | MDP-G075SQ | Global Duct (Internal Type) |
| AHU Kits | ALL DE LANGE | 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) |
| | (her-10= | MXD-A64K100E | AHU EEV Kit (10 HP) |
| | 1915 | MCM-D201N | Control Kit (PBA, 10 HP~40 HP) |
| Y-joint | - | MXJ-YA1509M | 15.0 kW and below |
| | | MXJ-YA2512M | Over15.0 kW~40.0 kW and below |
| | | MXJ-YA2812M | Over 40.0 kW-45.0 kW and below |
| | | MXJ-YA2815M | Over 45.0 kW-70.3 kW and below |
| | | 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) Y-Joint (Outdoor Unit) | → | 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 |
| | | MXJ-TA3419M | 135.2 kW and below |
| | | MXJ-TA4122M | 140.2 kW and over |
| Y-Joint (HR Outdoor Unit) | 10 8 g | MXJ-TA3100M | 135.2 kW and below |
| V-loint (for MCII) | ¥ : | MXJ-TA3800M | 140.2 kW and over |
| Y-Joint (for MCU) | 7 | MXJ-YM1509M | Over16.0 kW-28.0 kW and below |
| | | MXJ-YM1206M | Over 6.0 kW-14.0 kW and below |
| Distribution Header | | MXJ-YM1206R | Over 6.0 kW-14.0 kW and below |
| Distribution neader | | MXJ-HA2512M | 45.0 kW and below (for 4 rooms) |
| | | MXJ-HA3115M | 70.3 kW and below (for 8 rooms) |
| Heat Recovery Changer | ************************************** | MXJ-HA3819M | Over 70.3 kW-135.2 kW and below (for 8 rooms) |
| | | MCU-R4NEKON | |
| | | MCU-S6NEK3N | |
| | | | |

| Classification | lmage | Model | Application |
|---------------------------------------|---------|----------------|-------------------------------------|
| мси | | MCU-S12NEK1N | 12 ports, max 61.6 kW (-16 kW/port) |
| | | MCU-S8NEK1N | 8 ports, max 61.6 kW (-16 kW/port) |
| | tomes ± | MCU-S6NEK2N | 6 ports, max 61.6 kW (~16 kW/port) |
| | 1111 \$ | MCU-S4NEK3N | 4 ports, max 61.6 kW (~16 kW/port) |
| | 11 ± | MCU-S2NEK2N | 2 ports, max 32.0 kW (-16 kW/port) |
| | 1 1 | MCU-S1NEK1N | 1 ports, max16.0 kW (~16 kW/port) |
| EEV Kít | 1 | MXD-E24K132A | 2 Indoor |
| | | MXD-E24K200A | |
| | | MXD-E32K200A | |
| | 4 | MXD-E24K232A | 3 Indoor |
| | | MXD-E24K300A | |
| | 1 | MXD-E32K224A | |
| | | MXD-E32K300A | |
| | .0 | MEV-E24SA | 1 Indoor |
| DRAIN HOSE | | MEV-E32SA | |
| Differential Pressure Switch | | MOK-200DA | L TYPE SLIM 1-WAY / 4-WAY MINI |
| CO₂ SENSOR | 1000 | MOS-P1050 | ERV (Plus) |
| | mlerme | MOS-C1 | ERV (Plus) |
| Base-heater Kits | | MHC-015EE | DVM S Eco HR |
| | | MHC-013VE1 NEW | DVM S 2 Small |
| DDM/Dressure Dress | | MHC-015VE1 NEW | DVM S 2 Large |
| PDM (Pressure Drop Modulation) Kit | | MXD-A38K2A | 8 ~ 12HP |
| | | MXD-A12K2A | 14 - 16HP |
| 3rd party FCU Accessories | | MXD-A58K2A | 18 ~ 26HP |
| ard party FLU 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 Vertical |
| | | ACL-ADH | Auxiliary Drain Pan Horizontal |







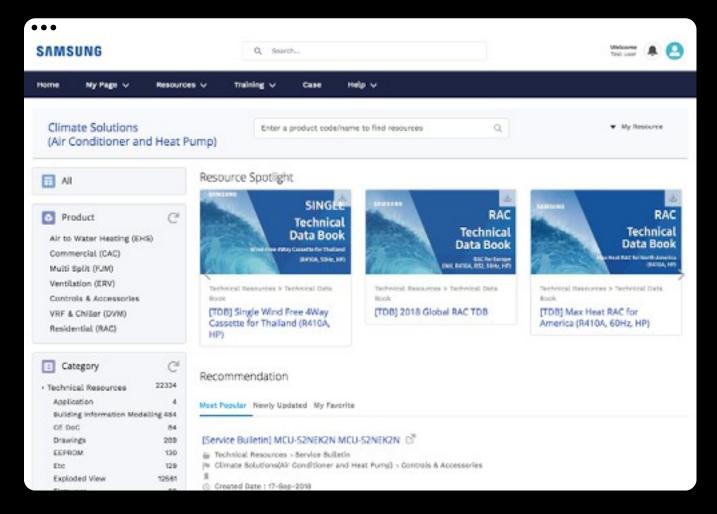
Samsung Climate Solutions Partner Portal

As one of Samsung's registered Climate Solutions partners, you will have access to our Partner Portal and its many benefits. Whether you are looking for 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

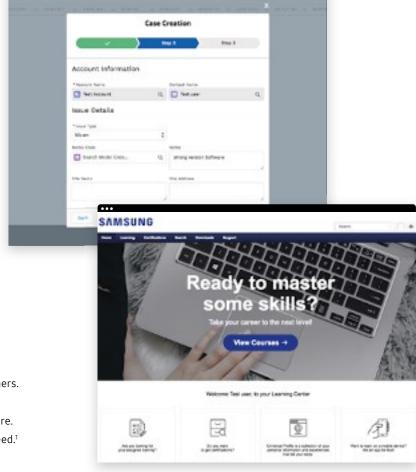
The Technical Resources section provides you with all of the relevant information you need to understand the product's functionality and to prepare and design projects. A library full of

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.

¹The 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



1. 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.



2. Access

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



3. Manage account

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



4. Search and download

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

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

Samsung DVM Pro 2.0

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 HVAC 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

Wiring schematics

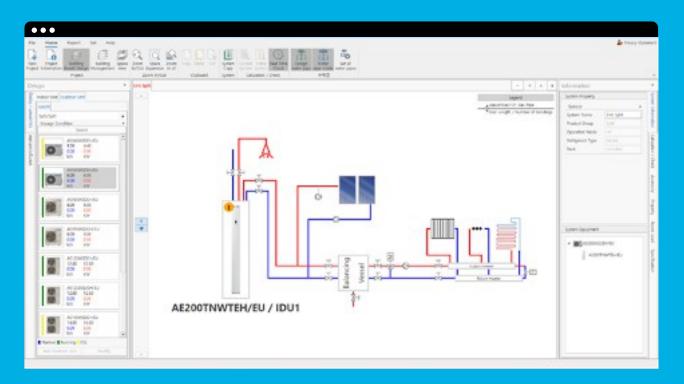
Automatic diagrams including communication wiring for indoor/outdoor control units and electric power meters

Updated Toolbar

User-friendly tool bar helps to guide intuitively

Reports

Specifications, diagrams in DWG & BMP format, quotations



CAD Mode

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

Pipe sizing & lengths

Automatic pipe drawing and selection

Automatic selection and report

Piping installation

System check

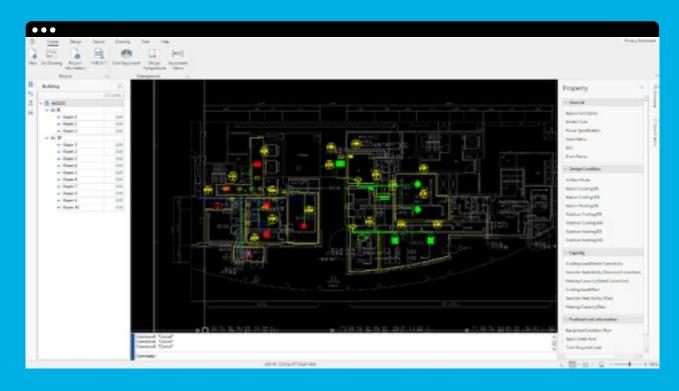
Installation regulation & refrigerant charging

Design wihout AutoCAD

Compatible with AutoCAD and AutoCAD LT for DWG.

Performance simulation

Capacity correction tool against specific design conditions



 $^{\rm 1}\textsc{Google}$ Chrome is the recommended web browser for using the Samsung DVM Pro 2.0 Porta

How to access



1. Register

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



2. Select

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



3. Download

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

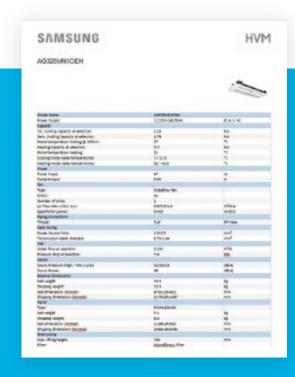
Samsung HVM Selection Tool

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



1.Access

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



2. Design

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



3. Support

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

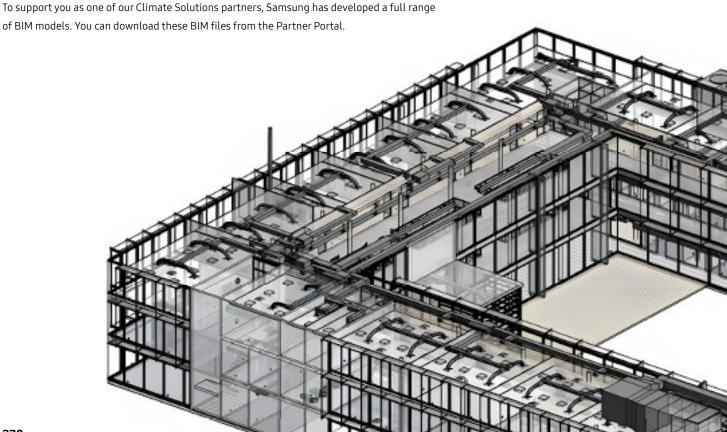
 $^{^1} Google\ Chrome\ is\ the\ recommended\ web\ browser\ for\ using\ the\ Samsung\ Climate\ Solutions\ Partner\ Portal\ Chrome\ Partner\ Portal\ Partner\ Partner\ Portal\ Partner\ Partn$

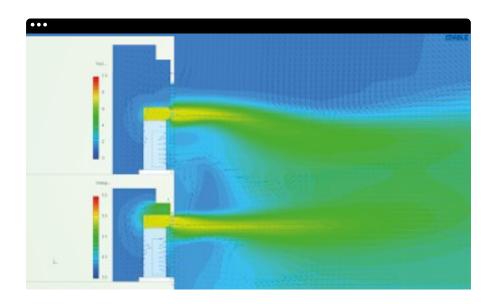
Samsung specialist design support

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 assessments 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.





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.

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

How to obtain support



1. BIM support

To download Samsung BIM models, go tho Technical Resources on partnerhub.samsung.com/climate¹. To request dedicated project design support from Samsung, please contact your Samsung representative.



2. CFD analysis

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



3. BREEAM advice

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



Samsung training centres in Europe

Amsterdam

The Netherlands

Athens

Greece

Chertsey

United Kingdom

Lisbon

Portugal

Lyon

France

Madrid

Spain

Mansfield

United Kingdom

Milan

Italy

Warsaw

Poland







How to register for training



1. Select

Go to partnerhub.samsung.com/ climate and search the online event calendar to select the training course you want to attend.



2. Register

After identifying the training course you would like to attend, follow the registration process.



3. Participate

You will be trained by one of our specialised Master Trainers or Product Specialists in one of our training centres.



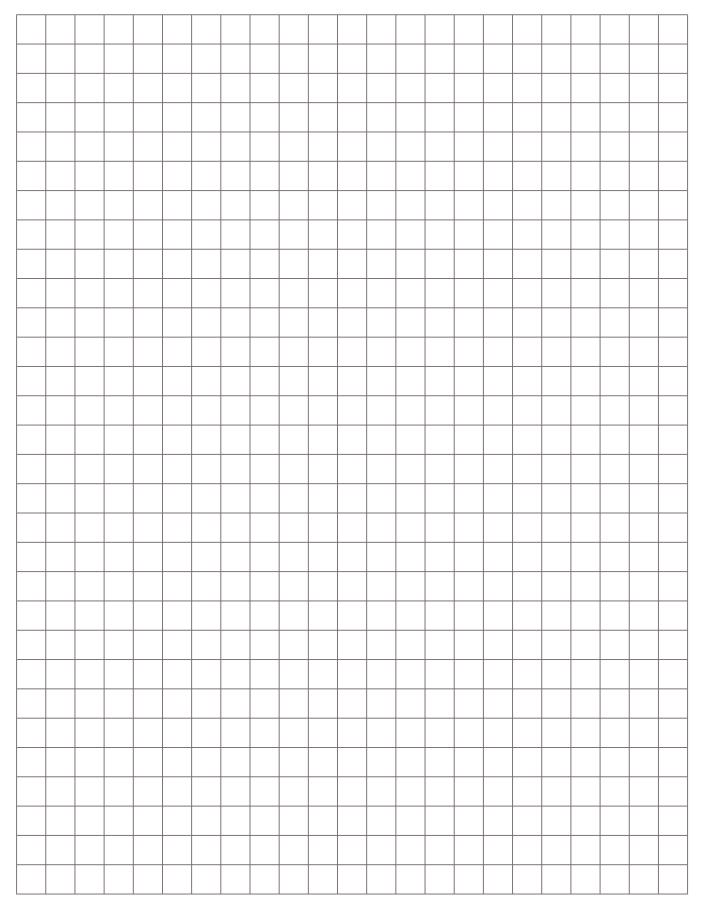
4. Get certified

After completing the training, you will receive a Certificate of Completion.

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

Notes

Notes





Find your flow. Create your perfect environment

Learn more about Samsung Climate Solutions at:

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

Samsung Electronics Air Conditioner Europe B.V.

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