

SAMSUNG

Climate Solutions

Product Catalogue

Commercial

2020

Highlights for 2020

Wind-Free™

Samsung introduced the market's first air conditioner with Wind-Free™ technology in 2017. Wind-Free™ Cooling disperses fresh air gently and evenly through thousands of micro-holes, creating "Still Air" conditions¹. This allows people to live, work and relax comfortably without experiencing unpleasant cold drafts. Samsung introduces a completely new Wind-Free™ wall-mounted model for its VRF (Variable Refrigerant Flow) product range. Equipped with Wind-Free™ technology, the micro-holes spread fresh air gently and evenly to enhance indoor comfort for medium-sized to large commercial buildings, such as hotels or offices.



Wind-Free™ Deluxe



Wind-Free™ Cooling



Wi-Fi Control (optional)



Fast Cooling

- Equipped with NASA communication protocol.
- Available for VRF (DVM) in capacity range 1.5 - 8.2 kW, with or without EEV.

NEW

Wi-Fi Control

The new optional Wi-Fi Kit allows users to control up to 16 connectable indoor units via smartphone with the Samsung SmartThings app². The app checks indoor temperature, outdoor temperature and air quality levels, and then recommends the optimal operating mode. It also offers the option of adding user scenes such as working, walking or resting. The geofencing functionality allows the room temperature to be automatically set at the desired level when the user approaches to within a preset distance of 100 m - 150 km from the building.



Wi-Fi Kit



- Wi-Fi control of up to 16 indoor units through Samsung SmartThings.
- Welcome Cooling or Heating through geofencing functionality.
- Individual energy monitoring for up to 16 outdoor units.

NEW

¹ 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.

² A Wi-Fi connection and Samsung SmartThings application account are required. Wi-Fi Kit to be ordered separately. Requires iOS10.0 or later & Android 5.0 or later.

HVM

Samsung HVM (HydroVariableMulti) is a water-based, hybrid VRF (Variable Refrigerant Flow) solution that offers ultimate flexibility – from design to installation to operation. It offers the existing benefits of traditional VRF systems, with the added advantage of future-ready versatility. For 2020, the compact Samsung HVM Chiller units are compatible with an extended range of Fan Coil Units (FCU). The complete system's integrated and standardised control solution makes for efficient installation and commissioning. Control and maintenance is easy with Samsung's Data Management Server, DMS 2.5.



Wind-Free™ 1-Way Cassette FCU



Wind-Free™ Cooling Wi-Fi Control
(optional)

- Two-step cooling: Fast Cooling mode and Wind-Free™ Cooling mode.
- Built-in condensation drain pump and humidity sensor.
- Compatible with Wi-Fi Kit.

b.IoT

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



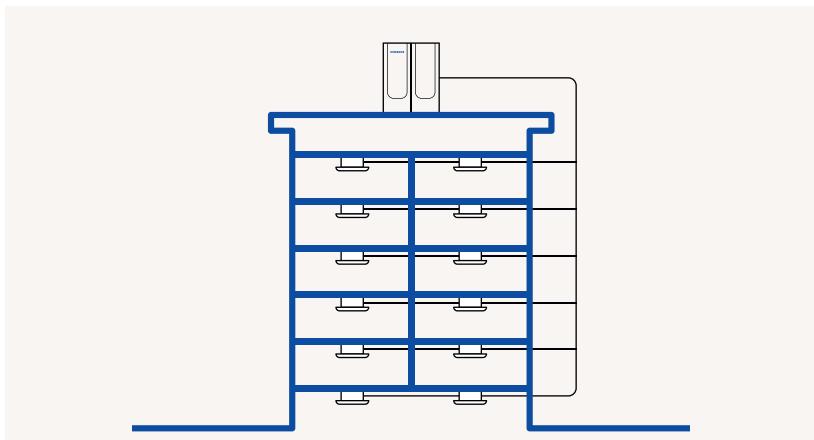
b.IoT

- Open platform.
- Easy and smart operation.
- Effective energy consumption management.
- Intelligent energy-saving algorithms.

Product overview

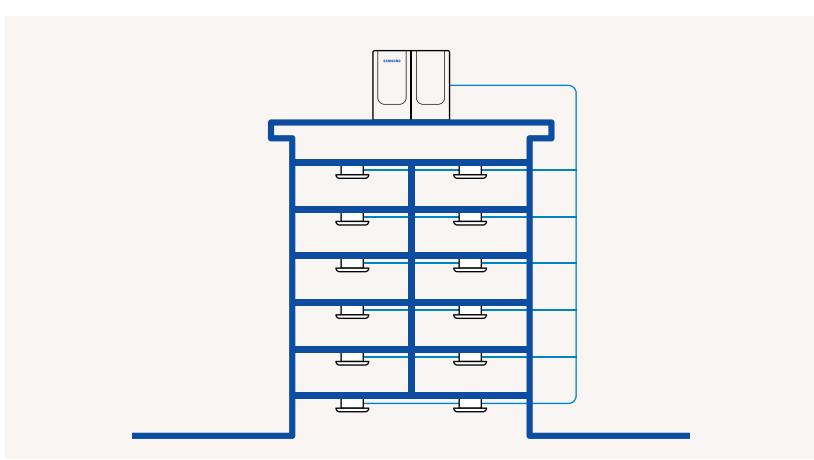
VRF (DVM)

A Samsung VRF air conditioning system offers high installation flexibility with compact DVM outdoor units, each of 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.



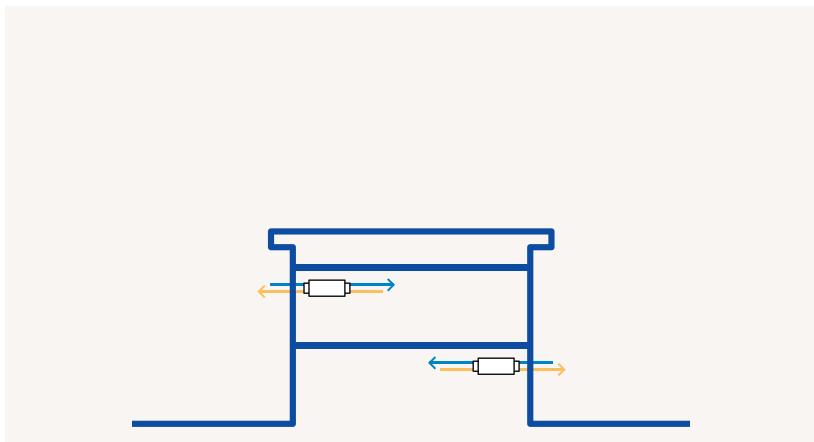
VRF Chiller (HVM)

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							
Indoor units				Outdoor units		Controls	
Wall-Mounted	360 Cassette	4-Way Cassette	1-Way Cassette	Large VRF	Mini VRF	Wireless	Wired
Duct	Floor	Ceiling	Ventilation unit	Console	Water system	Hydro unit	Centralised

Available Samsung product range							
Indoor units				Outdoor units		Controls	
Wall-Mounted	360 Cassette	4-Way Cassette	1-Way Cassette	Large VRF Chiller	Mini VRF	Wireless	Wired
Duct	Concealed	Cased	Ventilation unit	Console	Water system	Hydro unit	Centralised

Available Samsung product range							
Indoor units				Outdoor units		Controls	
Wall-Mounted	360 Cassette	4-Way Cassette	1-Way Cassette	Large VRF	Mini VRF	Wireless	Wired
Duct	Floor	Ceiling	Ventilation unit	Console	Water system	Hydro unit	Centralised

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



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 Duct S
 Wind-Free™ Deluxe **NEW**
 360 Cassette **MARKET FIRST**
 Wind-Free™ 4-Way Cassette **MARKET FIRST**
 Wind-Free™ 1-Way Cassette **MARKET FIRST**
 ERV (Plus)
 Air Handling Unit (AHU) Kit
 bIoT **NEW**

VRF (DVM)

Line-up outdoor
 Line-up indoor
 Selection guide
 Nomenclature
 DVM S Eco Heat Pump
 DVM S Essential Heat Pump (2-Pipe)
 DVM S Standard Heat Pump (2-Pipe)
 DVM S High EER Heat Pump (2-Pipe)
 DVM S Eco Heat Recovery
 DVM S High EER Heat Recovery (3-Pipe)
 DVM S Water
 360 Cassette **MARKET FIRST**
 Wind-Free™ 4-Way Cassette **MARKET FIRST**
 Wind-Free™ 1-Way Cassette **MARKET FIRST**
 Duct S
 LSP Slim Duct
 MSP Duct
 HSP Duct
 Big Duct
 Console
 Floor/Ceiling
 Big Ceiling

Concealed Floor-Standing
 Concealed Floor-Standing High Static Pressure
 Packaged Floor-Standing
 Boracay Wall-Mounted (EEV included and EEV excluded)
 Wind-Free™ Deluxe (EEV included and EEV excluded)
 Max Wall-Mounted
 Hydro Unit
 Mode Control Unit (MCU)
 AHU Kit for Outdoor Unit

VRF Chiller (HVM)

Line-up outdoor
 Line-up indoor
 Selection guide
 Nomenclature
 HVM Chiller
 1-Way Cassette FCU
 4-Way Cassette FCU
 360 Cassette FCU
 Concealed FCU **NEW**
 Cased FCU **NEW**

Ventilation (ERV)

ERV
 ERV Plus for DVM S
 OAP Duct for DVM S

Controls

Line-up
 Selection guide
 Features and dimensional drawings

Accessories

Line-up

Design and support

Samsung Climate Solutions Partner Portal
 Samsung DVM Pro 2.0 **NEW**
 Samsung HVM Selection Tool **NEW**
 Samsung specialist design support
 Samsung Climate Solutions Academy

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

Samsung Climate Solutions at a glance

At Samsung, we focus on providing cutting-edge innovations in indoor climate comfort and being a leader in intelligent digital connectivity solutions.

The solutions that we offer



Cooling



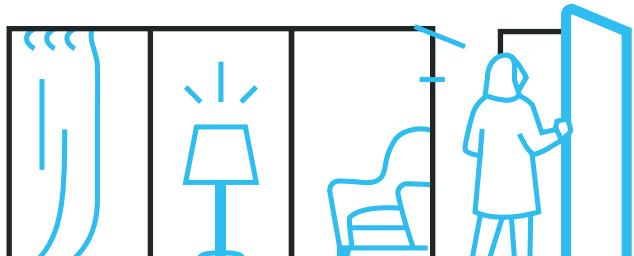
Heating



Hot water



Ventilation



Our market-centric product ranges



Residential

RAC | FJM

Light Commercial

CAC | FJM

CAC

Commercial

DVM | HVM | ERV

Heating

EHS

Controls

CONTROLS



Services we provide to empower our partners

Corporate and Technology milestones that make us proud

1974

Samsung introduces its first air conditioner.

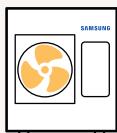
2005

Samsung Electronics enters the European market for commercial air conditioning.

2017

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

2014



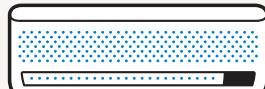
Arrival of the Samsung TDM concept, an all-in-one heat pump solution for heating, cooling and domestic hot water supply.

2015



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

2017



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

Wind-Free™



Wind-Free™ Cooling

SmartThings



Wi-Fi Control

b.IoT



Building Management System

Our flagship innovations that enrich people's lives

Our European footprint with the locations from which we operate

● 1 | Samsung Electronics Air Conditioner Europe B.V.

● 16 | Samsung offices

● 8 | Warehouses

● 9 | Training centres



Samsung reference projects in the spotlight Toptani Shopping Mall





Edit Grabovari

CFO
Energy Systems Ergova Ltd

Toptani Shopping Mall
Rr. Abdi Toptani, Tirane 1001, Albania

"Toptani Shopping Mall is one of the best shopping malls in Albania with the world's leading brands. We wanted the best in air conditioning solutions to match that, and we naturally installed Samsung climate solutions. DVM S has world-class energy efficiency and can minimise the operational costs of the building. The beautiful indoor units provided by Samsung harmonise with the interior of the shop, giving great satisfaction to the store owner and the consumer."

Application



Retail

Samsung products installed



360 Cassette



4-Way Cassette



Duct



DVM S

Samsung reference projects in the spotlight Hotel Oceania le Jura





Marc Bonivert

Manager Hotel Oceania le Jura

Hotel Oceania le Jura
14 Avenue Maréchal Foch
21000 Dijon, France

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

Application



Hotel

Samsung products installed



4-Way Cassette



Duct



Wall-Mounted



DVM S

Regulations and standards

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

Ecodesign

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

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

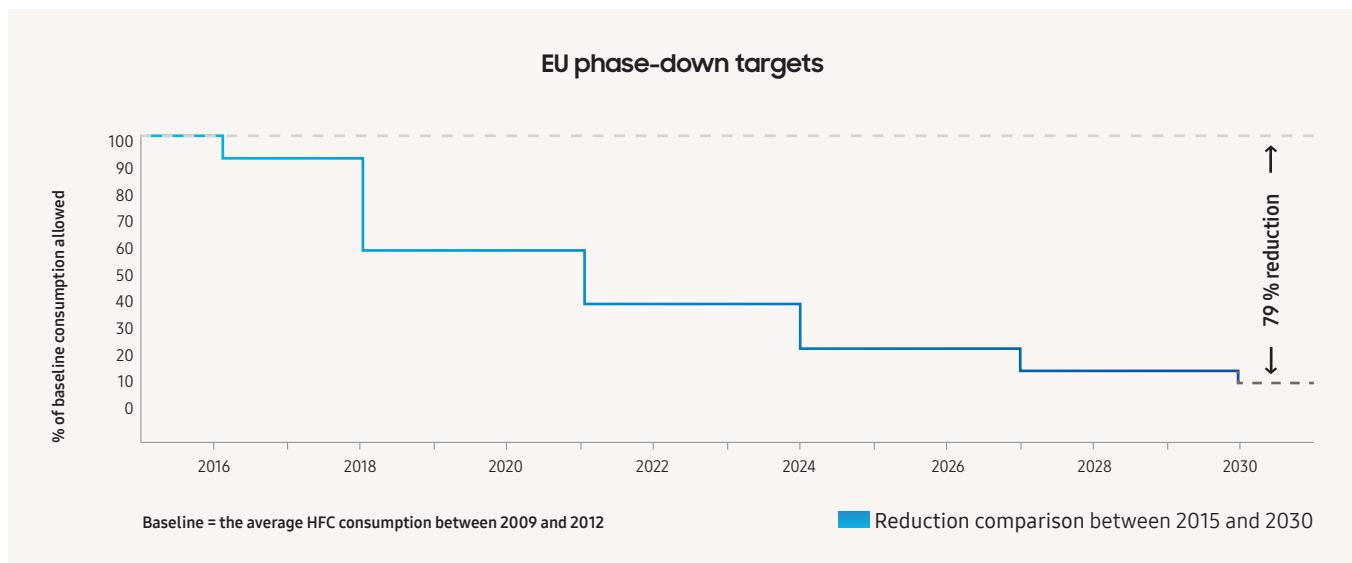
information regarding energy efficiency, including an energy label. LOT 1 and 2 took effect on 26 September 2015 and include residential air to water heat pumps for space heating and hot water production respectively (< 400 kW). It is mandatory to provide energy labels for products with a capacity less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

	LOTS 1/2	LOT 10	LOT 21
In effect since	26 September 2015	1 January 2013	1 January 2018
Applicable products	A2W heat pumps < 400 kW	Air conditioners < 12 kW	Air conditioners > 12 kW
Energy label required	✓	✓	
Samsung product range	 	 	 
	EHS	RAC FJM CAC	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 phase-down of HFCs, where the quantities of HFCs that are placed on the market are gradually reduced through the allocation of quotas by the European Commission. The phase-down targets are expressed in CO₂ equivalents (= kg x GWP - Global Warming Potential) and aim to reduce HFC

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



EN378 standard

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

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

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

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



WEEE: Electronic Waste

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

Batteries

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

Packaging

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



Innovations in detail

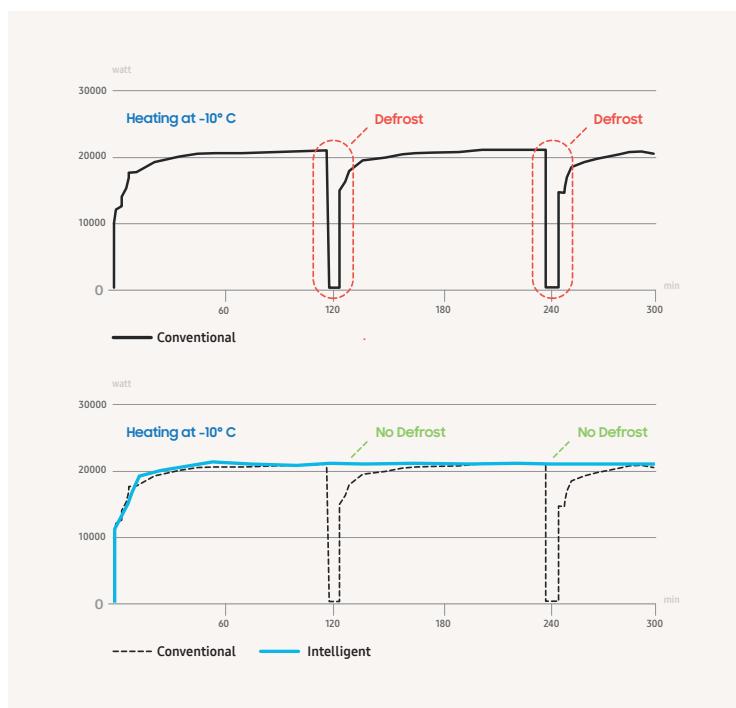
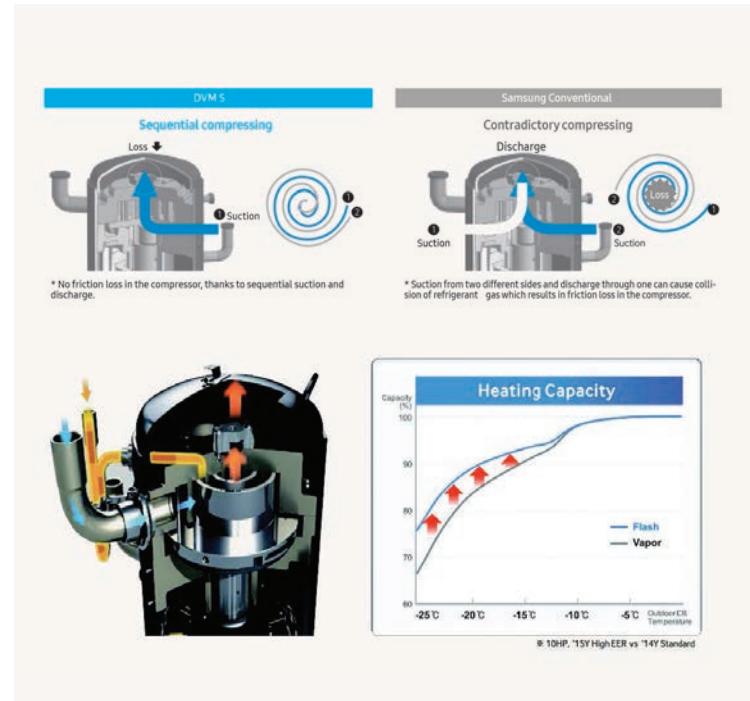


DVM S

Flash Injection - Scroll Compressor

The Samsung asymmetric scroll compressor combines fluid dynamic design with minimum refrigerant loss during compression. Thanks to advanced refrigerant control technology, Samsung's flash injection extends its heating operation range at -25°C by increasing refrigerant flow by 32 %¹, meaning maximum performance at all times. Even at lower temperatures, DVM S continues to perform, delivering reliable comfort in challenging conditions.

¹Compared to Samsung vapour injection technology.



Intelligent Defrost

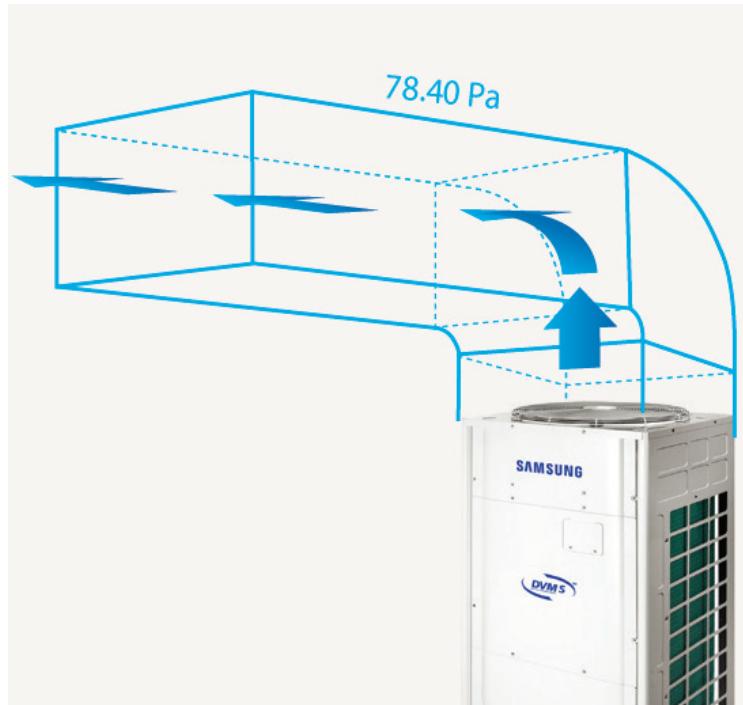
When humidity levels are low, a unit can often take longer than normal to activate a defrost operation. When a system operates at a lower performance level, faults may occur. In order to prevent such issues, and to help maintain the desired indoor temperature, 'Intelligent Defrost' performs a periodic defrost operation.



DVM S

External Static Pressure

DVM S is designed to manage high external static pressures of up to 78 Pa. This resilient build and design can help in situations involving difficult or complex installation conditions.



Mode Control Unit

An indoor unit connects to a 3-pipe Heat Recovery outdoor unit, which heats and cools independently using a Mode Control Unit (MCU). MCUs are available in configurations ranging from 2 to 6 ports and can be piped together. This allows for up to 80 indoor unit connections to a single DVM S system (where specifications allow).

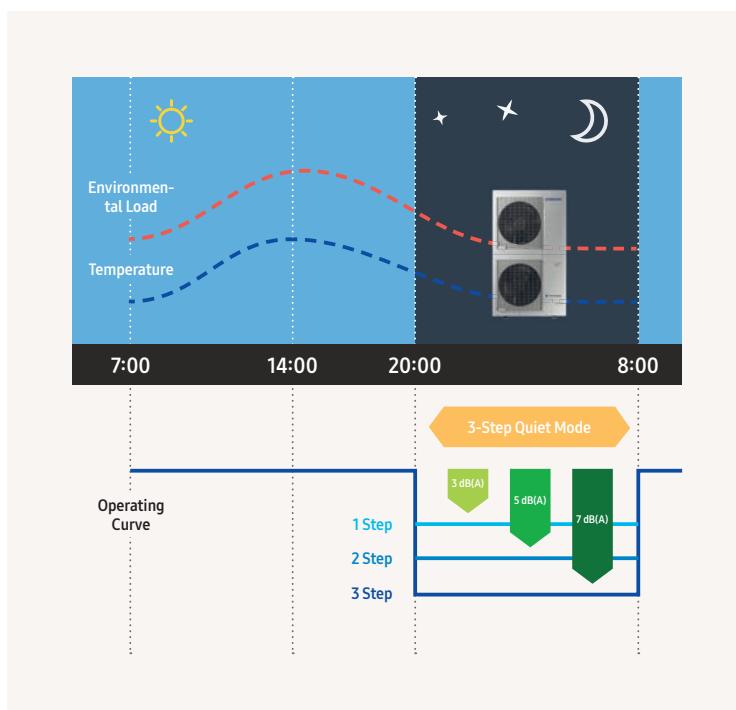
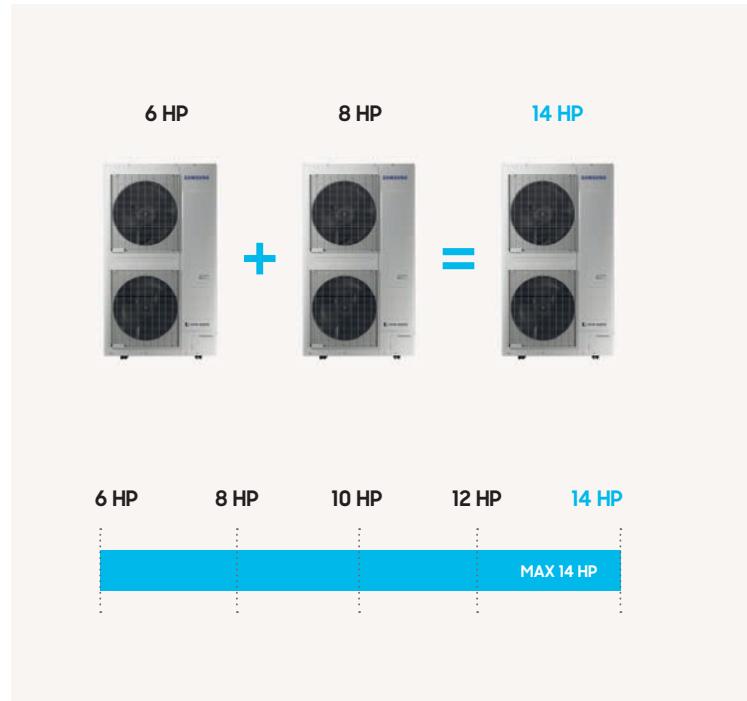
Innovations in detail



DVM S Eco

High capacity in a compact design

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



Silent mode

By producing less noise than conventional models, the DVM S Eco imposes fewer distractions on residential and working environments. Its compact, unimposing design and specially shaped fan blades help reduce sound levels by up to 5 dB(A), creating a more pleasant environment.

Additionally, its quiet operation during the night creates a restful environment with a reduced noise level of 2–7 dB(A).



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.



Built-in Water Flow Controller



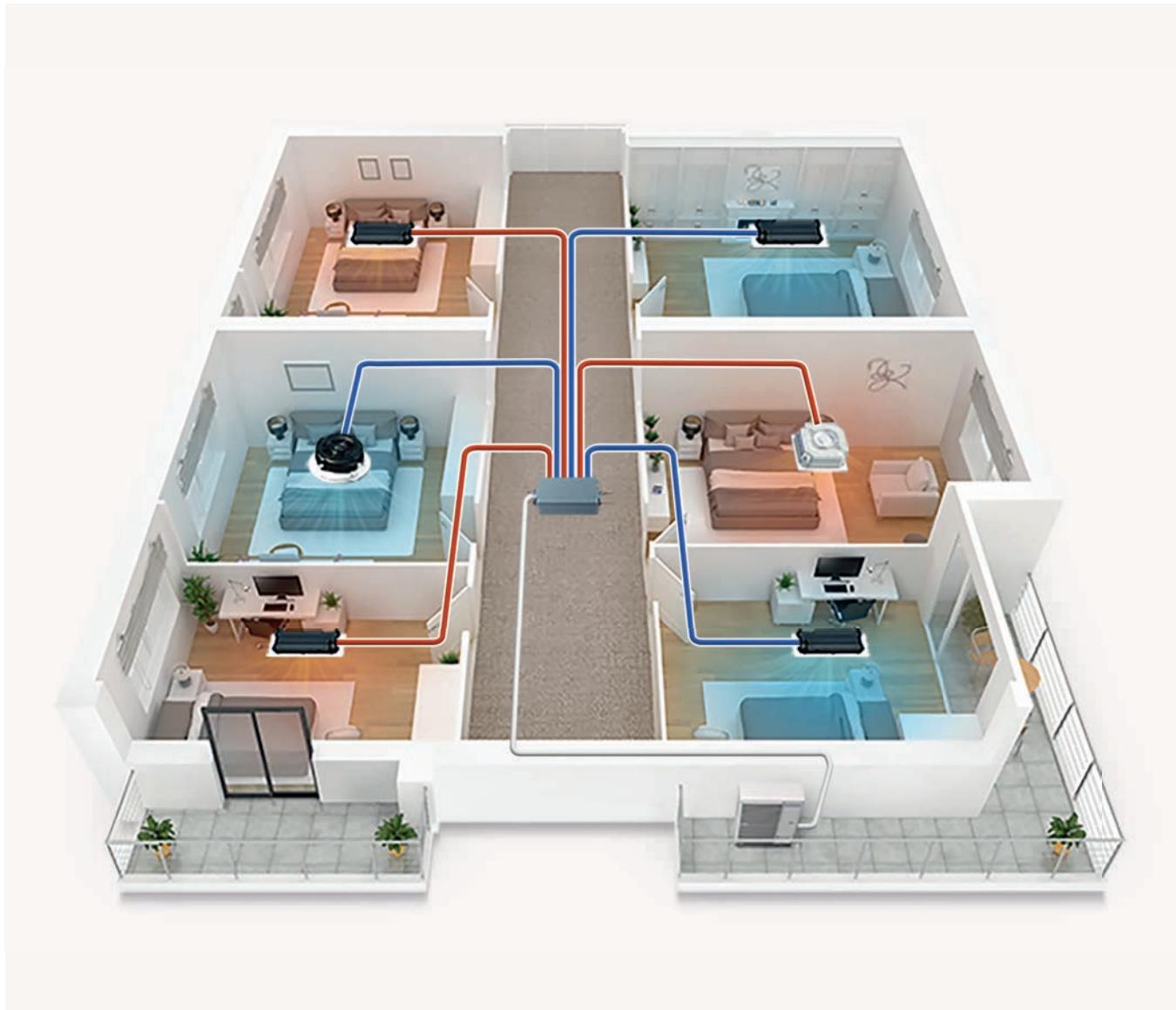
Geothermal applications

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

Innovations in detail



Heat Recovery for DVM



Compact Heat Recovery solution

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

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



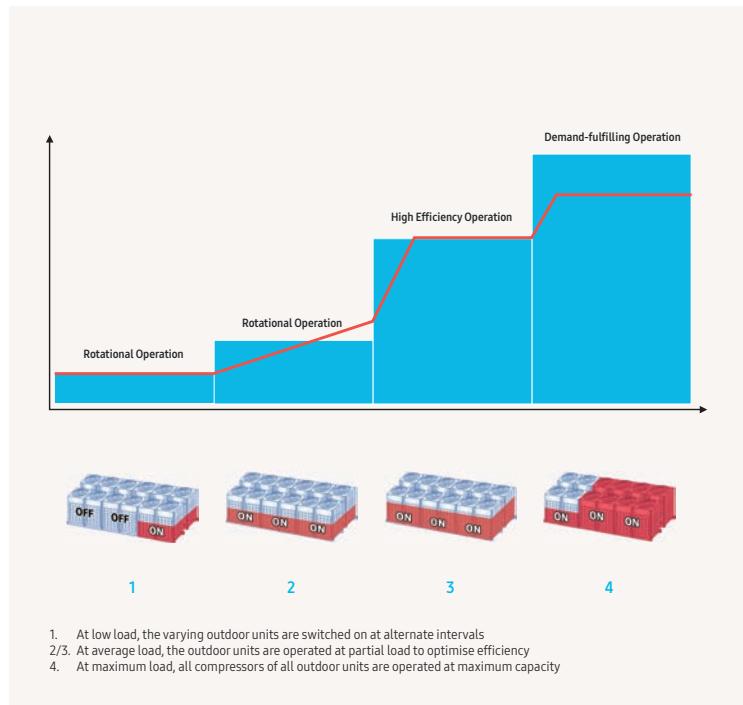
HVM Chiller

Modular Function

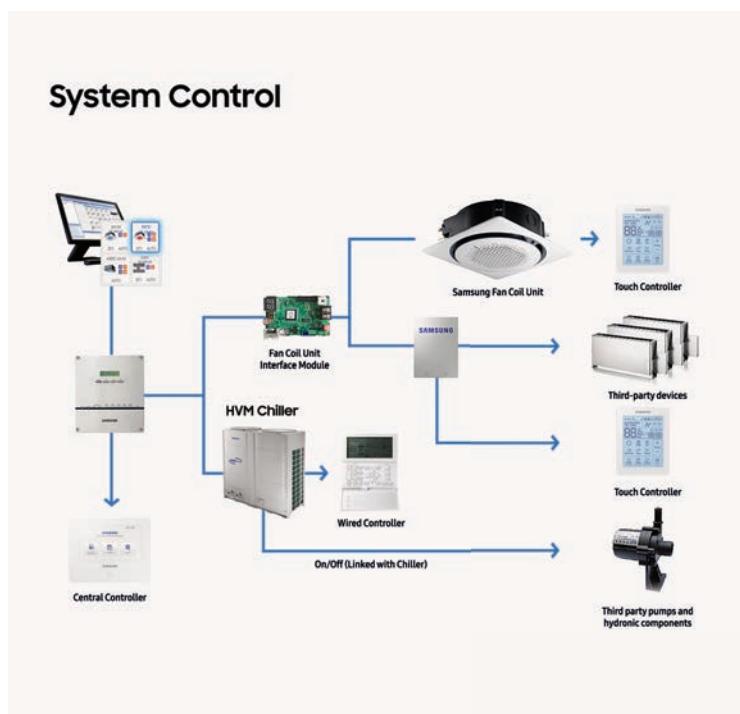
HVM Chiller heat pump outdoor units are available in three different sizes: 42/56/65 kW. A maximum of 16 outdoor units can be connected to achieve a maximum capacity of 1,040 kW. By connecting multiple units within a single system, the workload is adjusted automatically for maximum efficiency.

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

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



System Control



Local and centralised controls

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



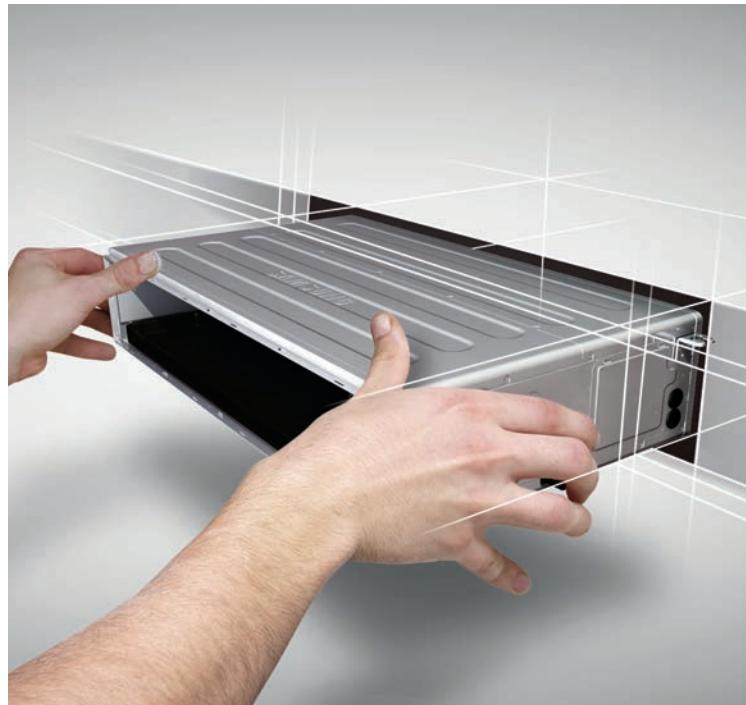
Innovations in detail



Slim Duct S

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.



Built-in drain pump

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

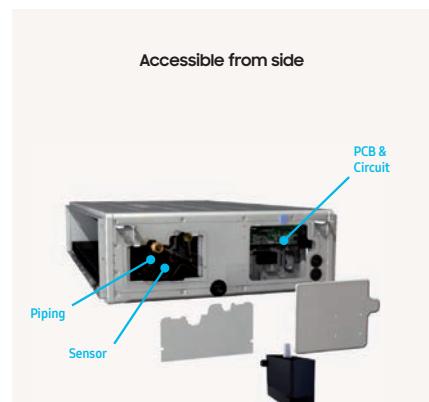
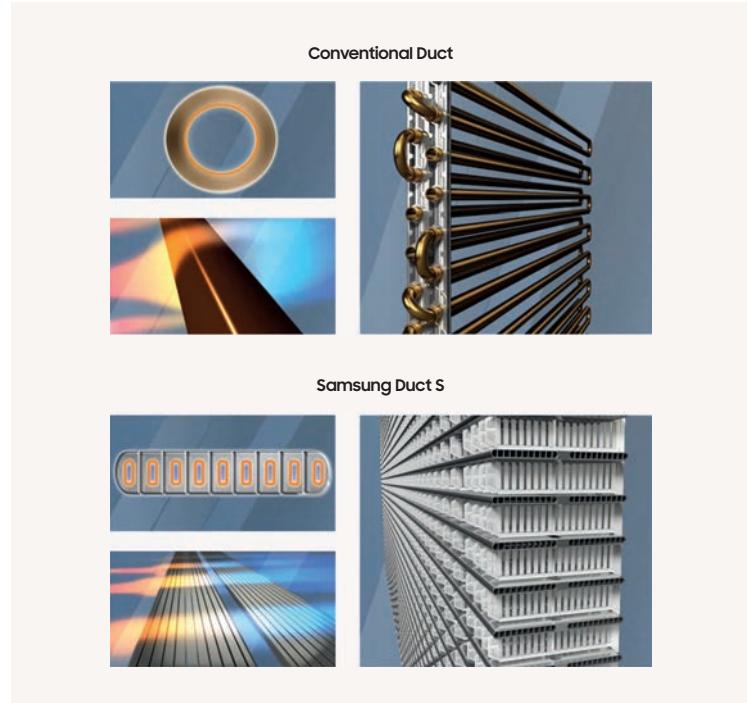
Innovations in detail



Duct S

Flat Microchannel Heat Evaporator and Condenser

Samsung's innovative Flat Microchannel Evaporator and Flat Microchannel Condenser technology provides increased efficiency compared with the conventional fin and tube type. These modern innovations have also enabled a reduction in the size of the unit.

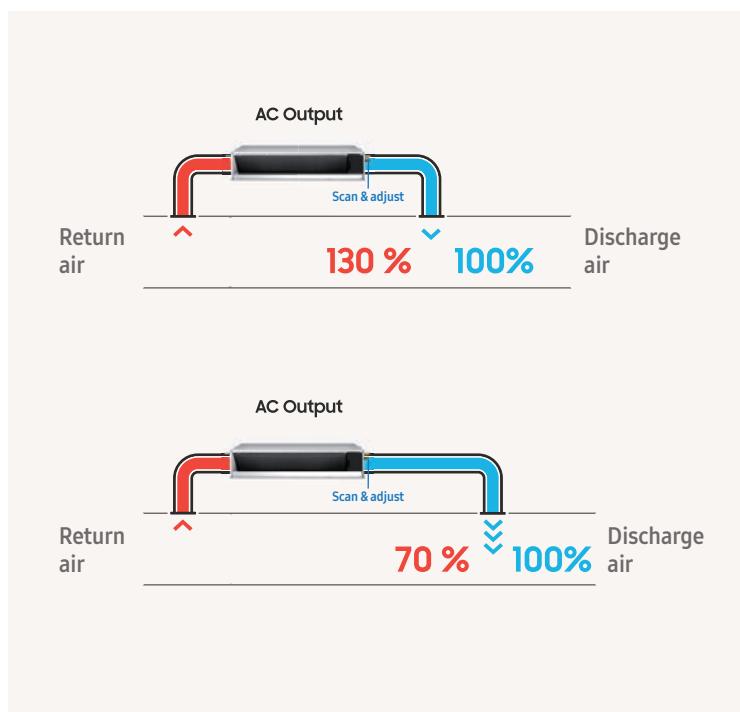


Easy installation and maintenance

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

Indoor discharge temperature

Each ducted indoor unit, or Air Handling Unit (AHU) kit, boosts discharge air temperature control function that offers greater comfort without the need to change the outdoor unit setting. The MWR-WG00JN remote control can be used to select and maintain the cooling or heating option, and works with 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.

Innovations in detail

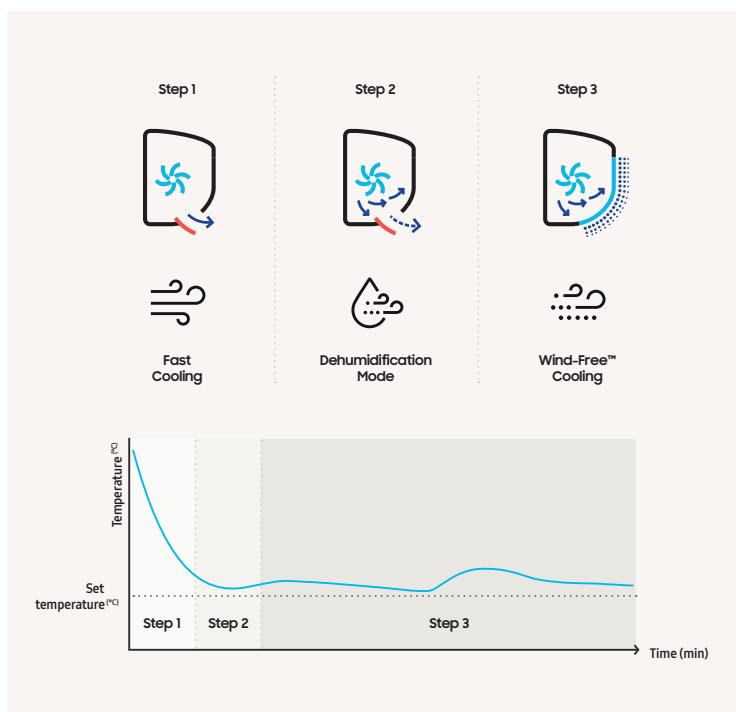
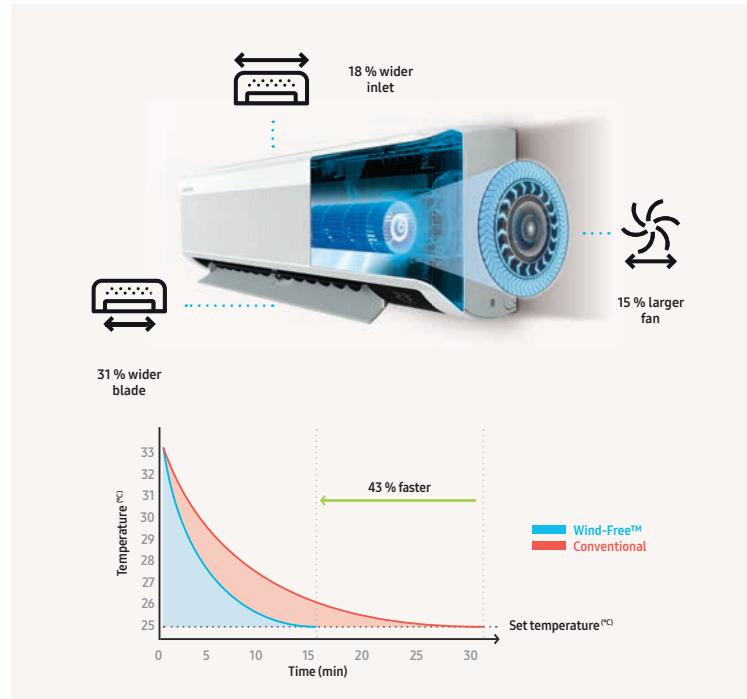


Wind-Free™ Wall-Mounted

Fast Cooling

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

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



Wind-Free™ Cooling

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

¹ ASHRAE (the American Society of Heating, Refrigerating, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts.

² Tested on the AR12TXCAAWKNEU model in an anechoic environment. Wind-Free™ mode generates 23 dB(A) of noise, compared to 26 dB(A) produced by the conventional Samsung model. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions.

³ Tested on the AR12TVEAAWKNA model under specific testing conditions, based on the power consumption of Fast Cooling mode vs. Wind-Free™ Cooling mode.



Innovations in detail



360 Cassette

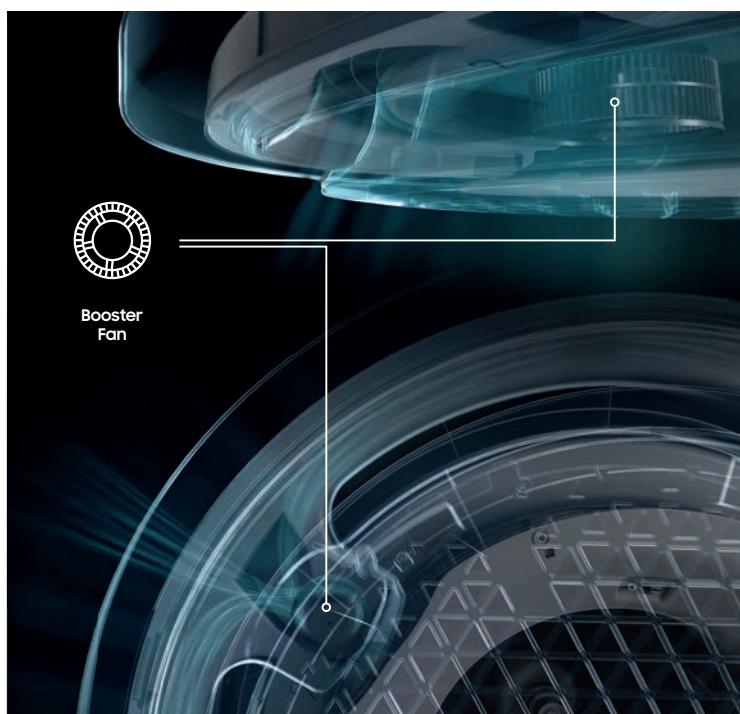
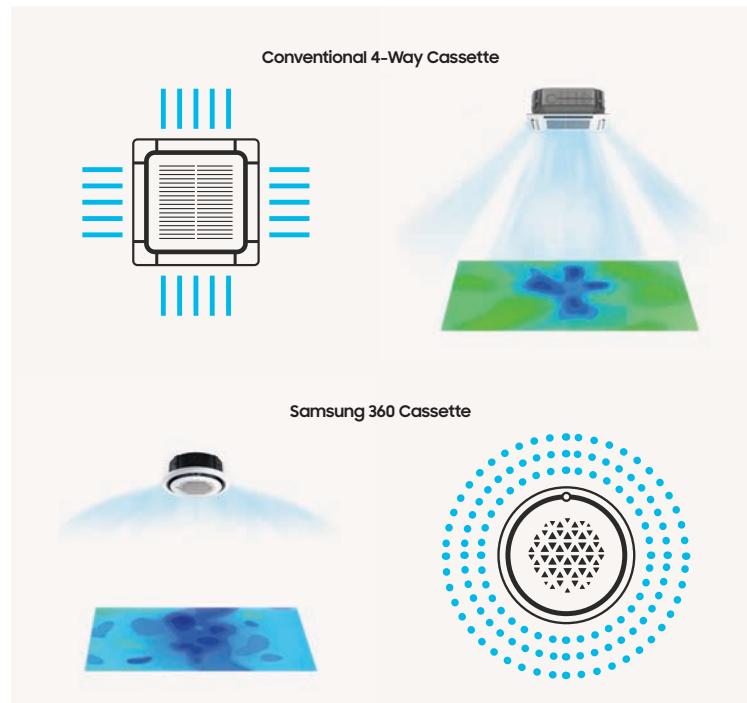
Circular airflow

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

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

² The temperature difference is less than 0.6 °C within a 9.3 m radius.

³ No cold draft between 0–1.5 m in height (with a 14.0 kW indoor unit) within a 5 m radius.



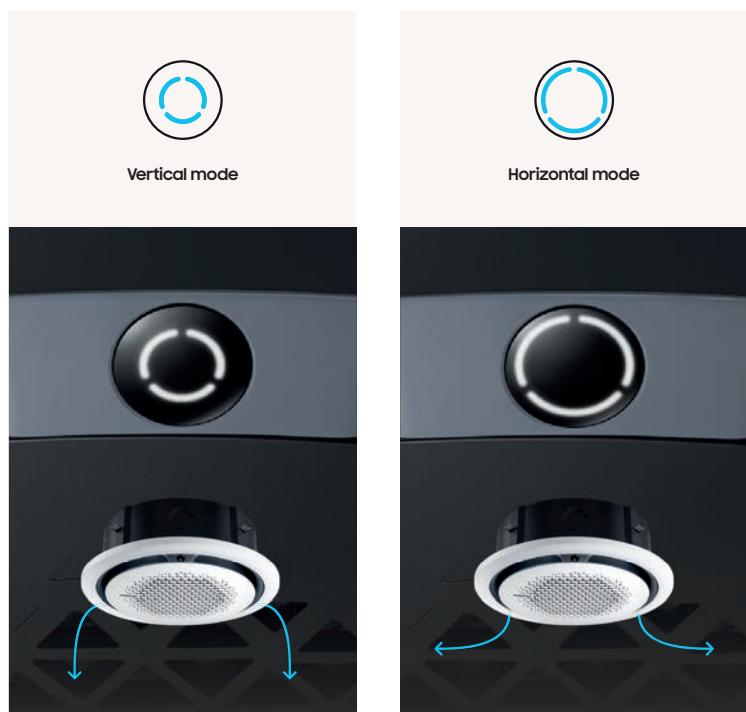
Airflow control

The air supply is easily adjusted without the use of flaps. Three booster fans alter the direction of airflow from within the cassette's hollow space. A rain-like distribution of air (known as the 'Coandă' effect) keeps the room cool and comfortable at all times.

The Motion Detector Sensor (MDS) is now available for the 360 Cassette.

LED display

The unit features a stylish panel and an intuitive LED display. This allows users to choose and change the direction of airflow. Users have a choice of settings, and controlling the air in an individual zone is easy.



Stylish design

The 360 Cassette adds a touch of style to any room. It comes in black or white, in a square or circular design, and can be fitted into the ceiling or exposed on the surface of any material. It suits any type of background, from wood to concrete and wallpaper to paint.

Innovations in detail

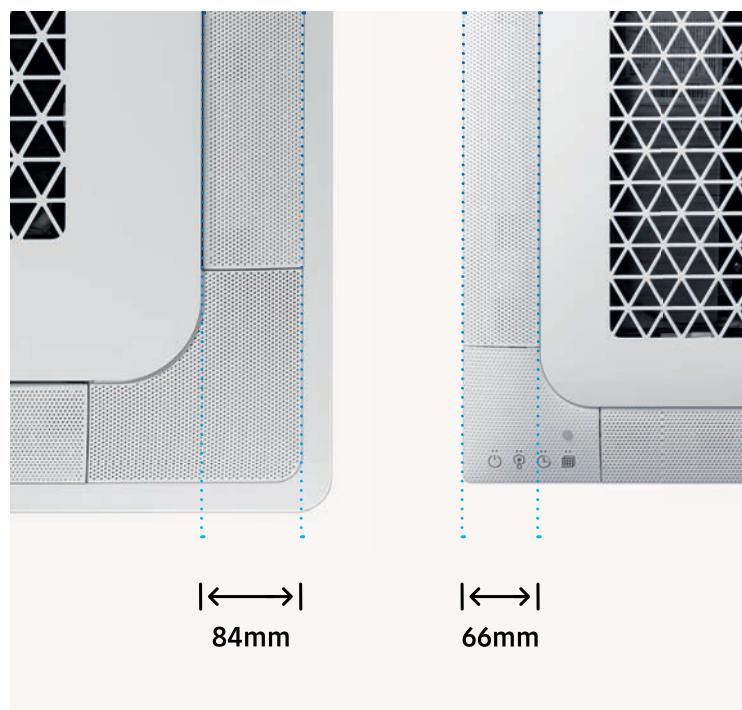


Wind-Free™ 4-Way Cassette

Wind-Free™ technology

Wind-Free™ Cooling is some of Samsung's most advanced technology. The Wind-Free™ 4-Way Cassette directs air through 15,700 micro-holes in the panel, while the small chassis Wind-Free™ 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.

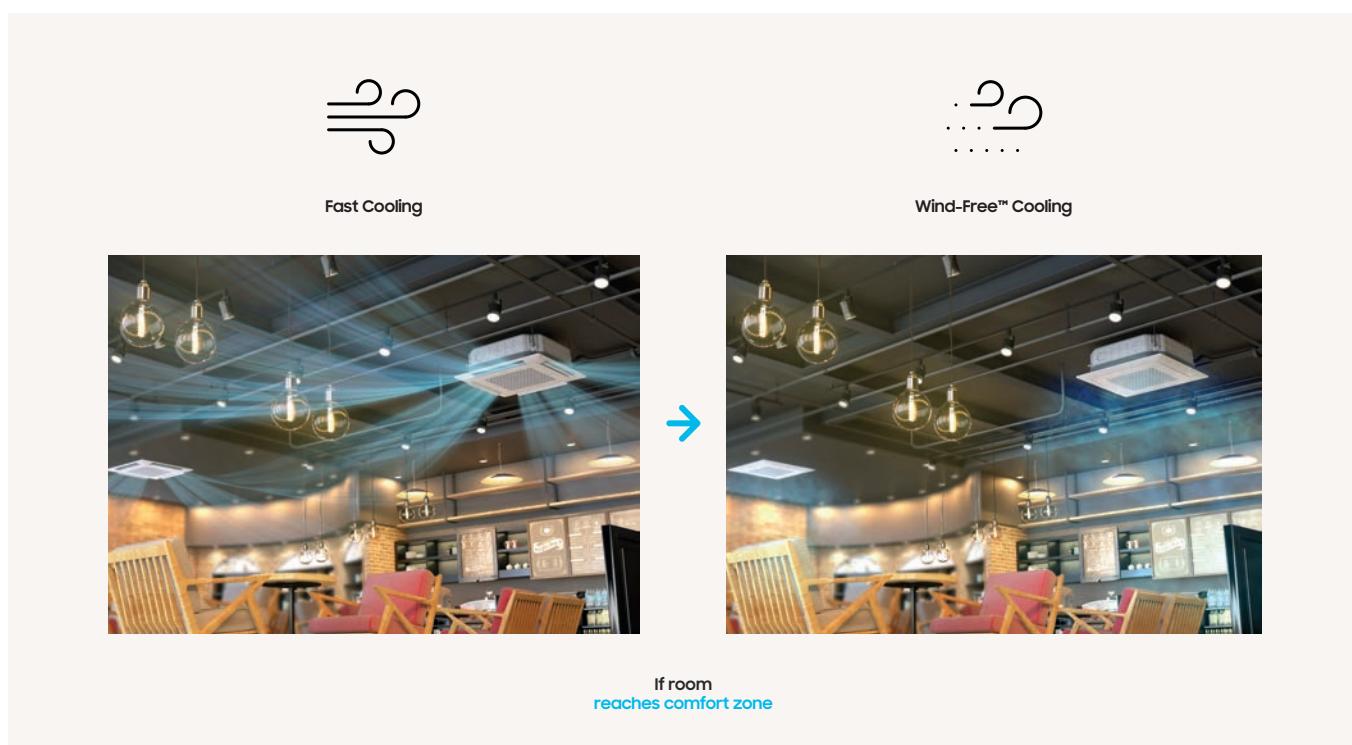
¹ ASHRAE (the American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts.



Optimised blades

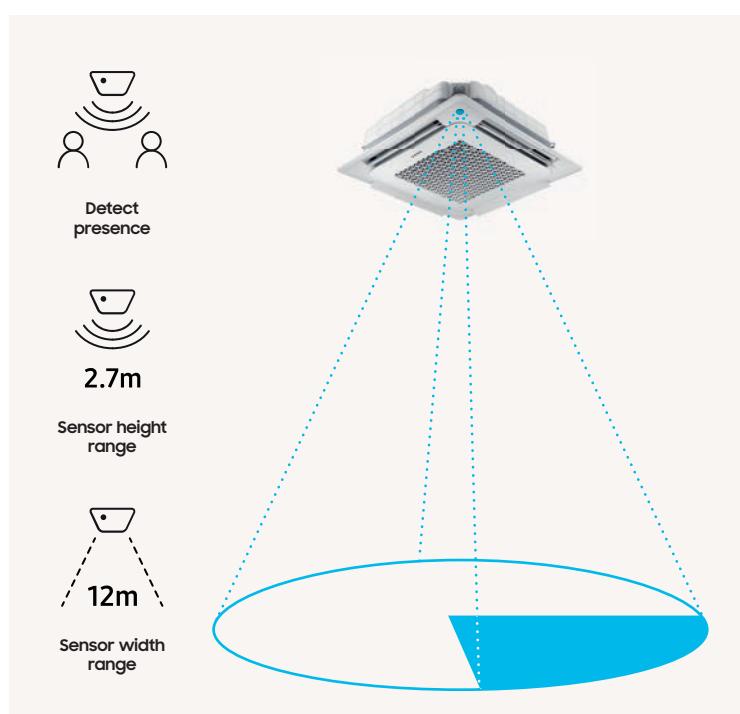
The larger and optimised blades¹ enable a wider cooling range and improved air circulation within the room. This advanced technology also cools the space much faster, leaving no zone untouched.

¹ Samsung testing compares the Wind-Free™ 4-Way to a conventional 4-Way Cassette type air conditioner.



Smart Comfort Operation

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



Motion Detect Sensor (optional)

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

Innovations in detail



Wind-Free™ 1-Way Cassette

Wind-Free™ technology

Wind-Free™ Cooling is some of Samsung's most advanced technology. The Wind-Free™ 1-Way Cassette 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.

¹ ASHRAE (the American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts.

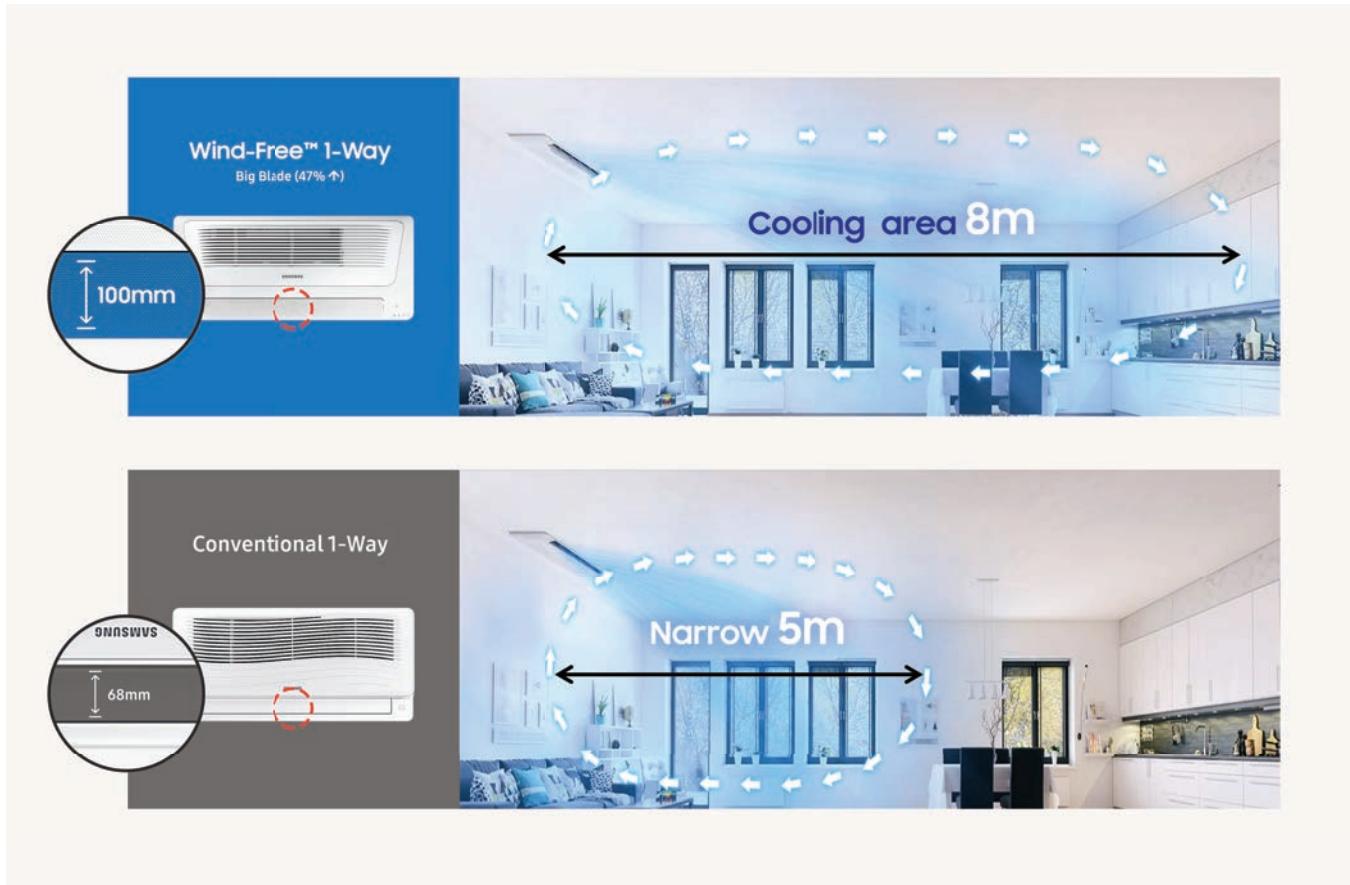


Slim installation

At a height of only 152 mm¹, the Wind-Free™ 1-Way Cassette is a compact and lightweight device (8-13.5 kg²). This slim design makes it not only visually pleasing, but also easier to install and maintain, and it can be fitted into small gaps or ceilings.

¹ Up to 3.6 kW, larger models measure 155 mm.

² 1.7 kW and 2.2 kW models weigh 8 kg. The 5.6 kW and 7.1 kW models weigh 13.5 kg.



Wider cooling range

The larger, optimised blade¹ works to cool a larger area much faster. Its sleek design can deliver cool air efficiently, rapidly and evenly over an area of up to 8 m², leaving no zone untouched.

¹ Samsung testing compares the Wind-Free™ 1-Way Cassette to a conventional 1-Way Cassette type air conditioner.
² Based on the 7.1 kW indoor unit.

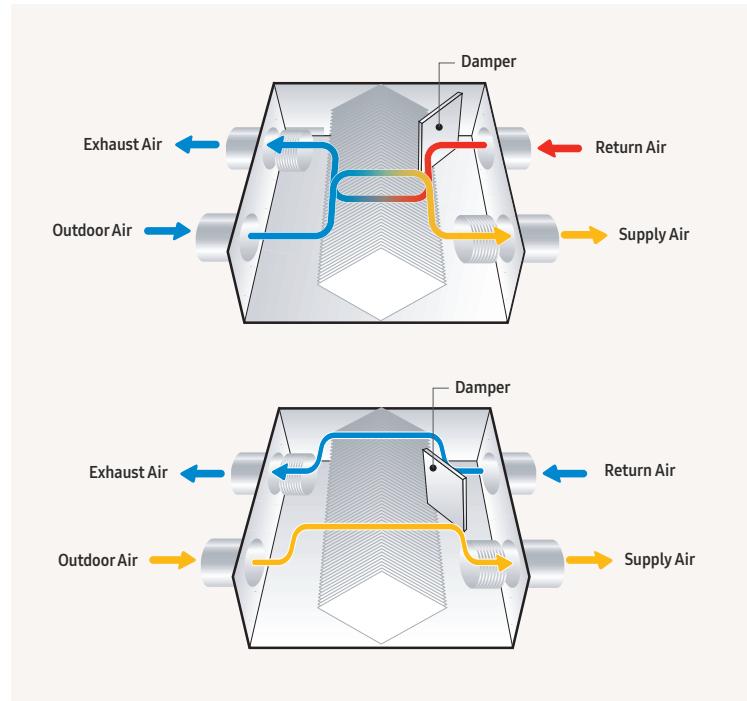
Innovations in detail



ERV (Plus)

Smart cooling - auto mode

To conserve energy and remain cost-effective, 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.



Fresh air and humidity

The ERV sends fresh air into a room automatically by detecting CO₂ with the CO₂ sensor¹. The Samsung humidifier kit balances moisture levels effectively, and the ERV's self-cleaning function sprays water from the top of the device upon operation, preventing any offensive odours caused by particle accumulation.

¹ CO₂ sensor and humidifier must be purchased separately.

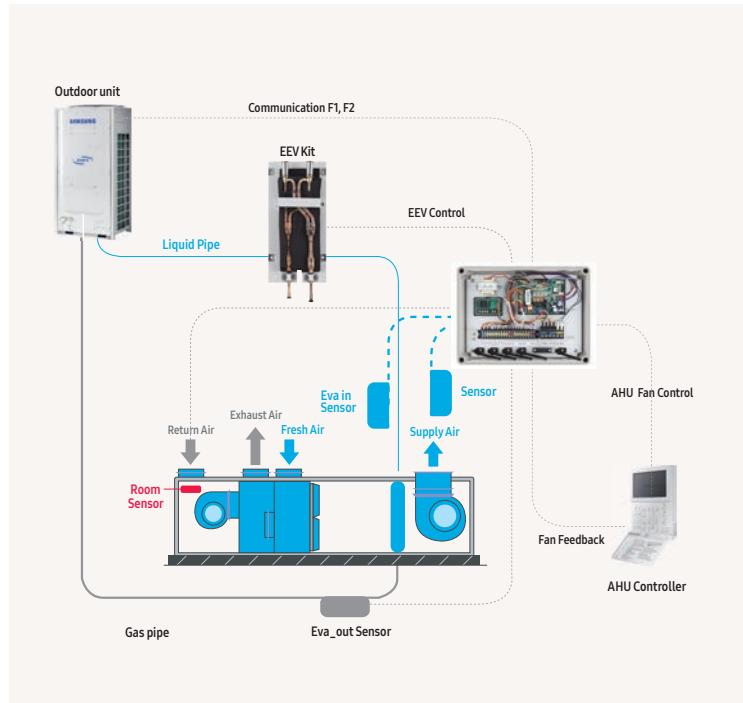
Air Handling Unit (AHU) Kit

Connect to third-party air handling units

The Samsung AHU kit allows the connection of DVM S outdoor units to third-party air handling units (AHUs)¹. With this kit you can supply heating or cooling to a DX coil in the AHU. This is a cost-effective and efficient 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.

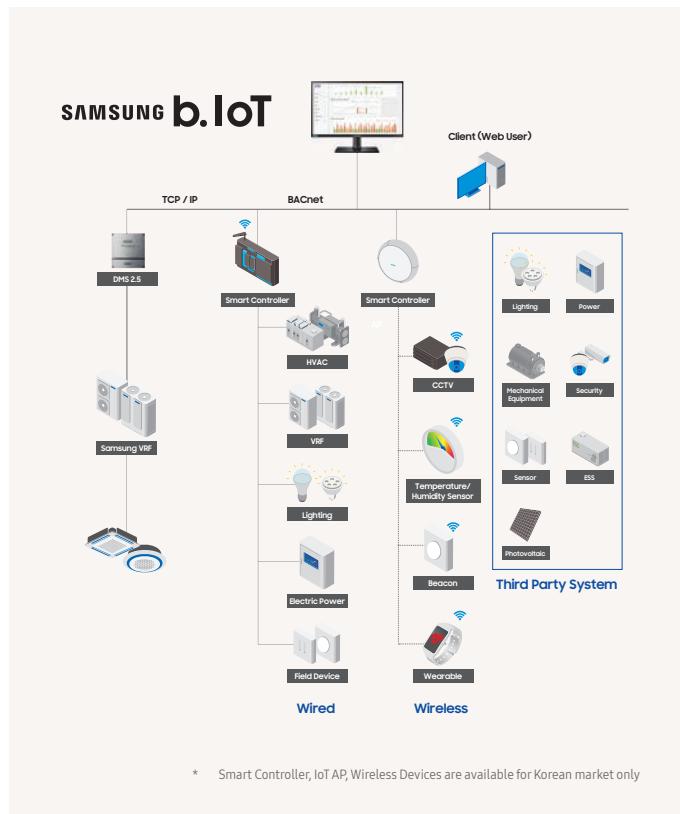
Innovations in detail

b.IoT

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

Samsung b.IoT helps to ensure:

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



Samsung b.IoT provides:

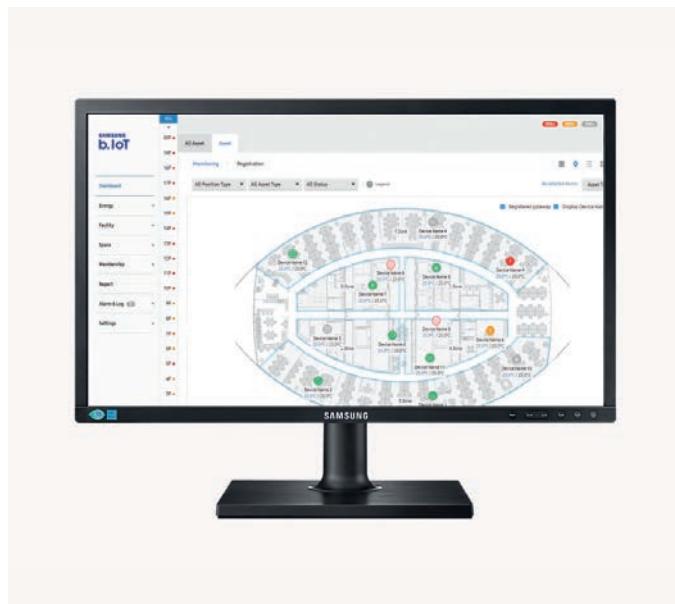


Open platform

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

Easy and smart operation

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

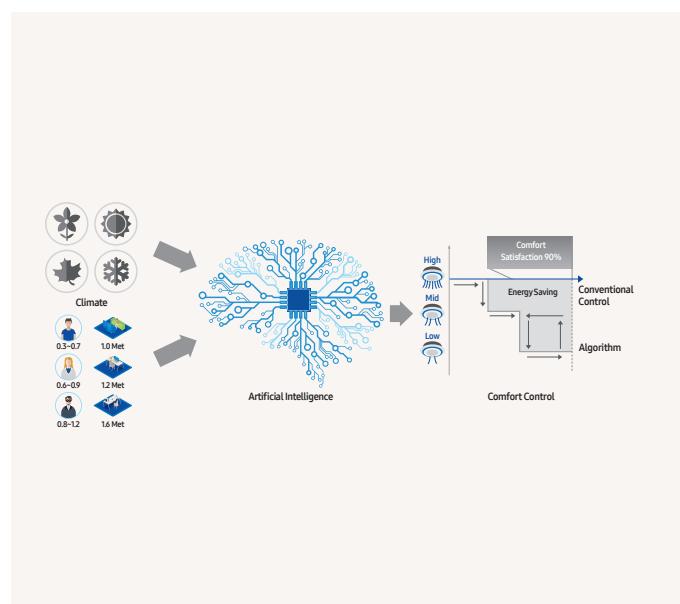


Effective energy usage management

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

Intelligent energy saving algorithms

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



VRF





Line-up outdoor

Model	Image	Capacity (hp)												
		4	5	6	8	10	12	14	16	18	20	22	24	26
Heat Pump	DVM S Eco Heat Pump		●	●		●	●	●	●					
	DVM S Essential Heat Pump (2-Pipe)						●	●	●	●	●	●		
	DVM S Standard Heat Pump (2-Pipe)					●	●	●	●	●	●	●	●	
	DVM S High EER Heat Pump (2-Pipe)				●	●	●	●	●	●	●	●	●	
Heat Recovery	DVM S Eco Heat Recovery (With Heat Recovery Changer Kit)		●	●	●									
	DVM S High EER Heat Recovery (3-Pipe)				●	●	●	●	●	●	●	●	●	
Water to Air/Water	DVM S Water		●	●	●				●					●



Line-up indoor

Model	Image	1.5	1.7	2.2	2.8	3.2	3.6	4.5	5.6	6.0	7.1
Wind-Free™ 1-Way Cassette		●		●	●		●	●	●		●
Wind-Free™ 4-Way Cassette		●		●	●		●	●	●		●
360 Cassette								●	●		●
Duct S							●	●	●		●
MSP Duct				●	●		●	●	●		●
LSP Slim Duct			●	●	●		●	●	●		●
HSP Duct											
Big Duct											
Console			●	●		●	●	●			
Ceiling									●		●
Concealed Floor-Standing							●		●		●
Packaged Floor-Standing											
Boracay Wall-Mounted (EEV included)		●		●	●		●	●	●		●
Boracay Wall-Mounted (EEV excluded)		●		●	●		●	●	●		●
Wind-Free™ Deluxe (EEV included)		●		●	●		●	●	●		●
Wind-Free™ Deluxe (EEV excluded)		●		●	●		●	●	●		●
Max Wall-Mounted											
Hydro Unit HE											
Hydro Unit HT											

NOTE

- Make sure to use an indoor unit that is compatible with DVM S.
- 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. $0.5 \times \Sigma$ (Outdoor unit capacity) \leq Total capacity of the connected indoor units $\leq 1.3 \times \Sigma$ (Outdoor unit capacity).
- EEV kit is necessary for all Indoor Units which do not have EEV kit included, please order EEV Kit separately.







Selection guide

Heat Pump					
Model	DVM S Eco AM***KXMDEH/EU AM***MXMDEH/EU	DVM S Essential AM***FXMDGH/EU AM***KXMDGH/EU	DVM S Standard AM***JXVAGH/ET AM***KXVAGH/ET	DVM S High EER AM***JXVHGH/ET AM***KXVGHH/ET	
Type	Heat Pump	●	●	●	●
	Heat Recovery				
	Capacity range	4–8 hp	6–14 hp	10–40 hp	8–80 hp
Connectability	Standard Cassette	●	●	●	●
	Wind-Free™ Cassette	●	●	●	●
	360 Cassette	●	●	●	●
	LSP Duct	●	●	●	●
	MSP Duct	●	●	●	●
	HSP Duct	●	●	●	●
	Wall-Mounted	●	●	●	●
	Floor-Standing/Concealed/Ceiling	●	●	●	●
	ERV Plus	●	●	●	●
	Hydro unit HE/HT	●	●	●	●
	MCU Kit				
	AHU Kit	●	●	●	●
Features	Refrigerant check mode	●	●	●	●
	Simultaneous cooling and heating				
	7-Segment display	●	●	●	●
	Four-way direction piping connection	●	●		
	Flash vapour injection				
	Heating @ -25 °C		●		
	Intelligent defrost			●	
	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	●	●	●	●
	Refrigerant type	R410A	R410A	R410A	R410A
Smart Protection Technology	Adaptive Sine Wave	●	●	●	●
	Refrigerant cooled PCB			●	●
	Resonance Avoidance Technology	●	●	●	●

Heat Recovery



DVM S Eco AM***NXMDER/EU AM***NXMDGR/EU	DVM S High EER AM***JXVGH/ET AM***MXVGNRH/ET	DVM S Water AM***MXWANR/EU AM***KXWANR/EU
● ¹		● ¹
●	●	●
4–6 hp	8–80 hp	8–90 hp
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
R410A	R410A	R410A
●	●	●
●	●	●
●	●	●

¹ Can be connected as a 2-pipe system.

Selection guide

VRF



Model	Wind-Free™ 1-Way Cassette	Wind-Free™ 4-Way Cassette	360 Cassette
Airflow	Wind-Free™ Cooling 360 Degree Air Supply	●	● ●
Air Purification	SPI Ioniser Air Filter	Optional	Optional Optional
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	● ●	● ●



Model	Console	Floor/Ceiling	Big Ceiling	Concealed Floor-Standing	Packaged Floor-Standing
Airflow	Wind-Free™ Cooling 360 Degree Air Supply				
Air Purification	SPI Ioniser 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	●		● ●	●

Duct				
Duct S	LSP Duct	MSP Duct	HSP Duct	Big Duct
Optional				
●	●	●	●	●
●	●	●	●	●
●			●	
●	●	●	●	●
Model-specific		Model-specific	Model-specific	Optional

Others		Wall-Mounted		
Hydro Unit HE	Hydro Unit HT	Boracay Wall-Mounted	Wind-Free™ Deluxe	Max Wall-Mounted
Optional				
●	●		●	
●	●	●	●	●
●	●	●	●	●
●	●		●	
Model-specific		Model-specific ²		●



Nomenclature

Indoor units

AM	045	N	N	4	D	E	H
1	2	3	4	5	6	7	8

1	Classification	AM	VRF
		AN	Ventilation (ERV)
2	Capacity	x1/10 hp DVM (3 digits)	
		F	2013
		H	2014
		J	2015
		K	2016
		M	2017
		N	2018
		R	2019
		T	2020
3	Version	N	Indoor Unit (NASA)
		S	ERV
		"1"	Wind-Free™ 1-Way Cassette
		"2"	2-Way Cassette
		"4"	360 Cassette & Wind-Free™ 4-Way Cassette
		N	Small chassis Wind-Free™ 4-Way Cassette
		L	Low Static Pressure Duct (Slim Duct)
		M	Medium Static Pressure Duct
		H	High Static Pressure Duct
		E	Outdoor Air Processing Duct
4	Product Type	C	Ceiling
		J	Console
		F	Floor-Standing
		P	Packaged Floor-Standing
		T	Boracay Wall-Mounted without EEV
		Q	Boracay Wall-Mounted (EEV)
		V	AR5000 Wall-Mounted (EEV)
		B	Hydro Unit
		K	ERV (Plus)
		W	DVM S Water
5	Product Notation	F	Flagship
		P	Premium
		D	Deluxe
		S	Standard
6	Feature	E	1Φ, 220~240 V, 50 Hz
		K	1Φ, 220~240 V, 50/60 Hz
		G	3Φ, 220~240 V, 50 Hz
7	Voltage Rating	H	Heat Pump (R410A)
		B	Heat Pump (R134A)
8	Mode	N	ERV

Outdoor units

AM	080	K	X	V	A	G	H
1	2	3	4	5	6	7	8

1	Classification	AM	VRF
2	Capacity	x1/10 hp DVM (3 digits)	
3	Version	F	2013
		H	2014
		J	2015
		K	2016
		M	2017
		N	2018
		R	2019
		T	2020
4	Product Type	X	DVM S
5	Product Notation	V	DVM S Essential/Standard/High EER
		W	DVM S Water
		M	DVM S Eco
6	Feature	A	Standard + General Temperature + Module
		H	High EER + Low Temperature + Module
		G	High EER + General Temperature + Module
		D	Standard + General Temperature + Non-Module
7	Voltage Rating	E	1Φ, 220~240 V, 50 Hz
		G	3Φ, 380~415 V, 50 Hz
		N	3Φ, 380~415 V, 50/60 Hz
8	Mode	H	Heat Pump
		R	Heat Recovery

Specifications

DVM S Eco Heat Pump

- VRF**
- 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.



Model		AM040KXMDEH/EU		AM050KXMDEH/EU		AM080MXMDGH/EU	
Power Supply		Φ , #, V, Hz		1Φ, 2, 220–240 V, 50 Hz		1Φ, 2, 220–240 V, 50 Hz	
Performance	hp	hp		4	5	8	
Capacity	Cooling	kW		12.1	14.0	22.4	
	Heating	kW		12.1	14.0	22.4	
Maximum number of connectable indoor units		ea		6.0	8.0	13.0	
Total capacity of the connected indoor units	Min.	kW		5.6	7.0	11.2	
	Max.	kW		15.7	18.2	29.1	
Power	Power Input	Cooling	kW	3.60	4.00	6.90	
		Heating		2.90	3.40	5.80	
	Current Input	Cooling	A	17.50	19.50	11.70	
		Heating		14.00	16.50	9.50	
	Current	Minimum SSC value	MVA	-	-	3.4	
		MCA	A	24.0	27.0	18.4	
Energy Efficiency¹	EER	Cooling	W/W	3.36	3.50	3.25	
	COP ¹	Heating	W/W	4.17	4.12	3.86	
	ESEER		W/W	7.25	6.71	7.46	
Compressor	Type	-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary		
	Output	kW x n		4.12	4.12	4.92 x 1	
	Oil	Type	-	PVE	PVE	PVE	
		Initial Charge	cc	1,700	1,700	1,700	
Fan	Type & Discharge direction	-	Propeller	Propeller	Propeller		
		-	Horizontal	Horizontal	Horizontal		
	Number of Fans	-	1	1	2		
	Airflow Rate	m³/min	64	70	135		
		l/s	1067	1167	2250		
	External Static Pressure	Max.	mmAq	3.00	3.00	3.00	
Fan Motor			Pa	29.40	29.40	29.40	
	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	
Wiring Connections	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	
Refrigerant	Communication	Min.	mm²	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	
Type		R410A(Fluorinated greenhouse gas, GWP=2,088)					
Factory Charging		kg / tCO ₂ e		2.00/4.18	2.50/5.22	3.70/7.73	
Sound²	Sound Pressure	Cooling	dB(A)	52	55	59	
		Heating	dB(A)	54	57	59	
	Sound Power		dB(A)	73	75	77	
External Dimensions	Net Weight	kg		79.0	83.5	115.0	
	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 Temperature Range	Cooling	°C		-5.0–48.0	-5.0–48.0	-5.0–48.0	
	Heating	°C		-20.0–24.0	-20.0–24.0	-20.0–24.0	



AM080KXMDGH/EU	AM100KXMDGH/EU	AM120KXMDGH/EU	AM140KXMDGH/EU
3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz
8	10	12	14
22.4	28.0	33.5	40.0
25.0	31.5	37.5	45.0
13.0	18.0	21.0	26.0
11.2	14.0	16.8	20.0
29.1	36.4	43.6	52.0
5.72	7.29	8.77	10.59
4.88	6.74	7.81	9.88
9.66	11.51	13.74	16.48
8.24	10.58	12.23	15.55
3.4	4.6	5.1	5.9
18.0	21.5	23.5	32.0
25	30	30	40
3.92	3.84	3.82	3.78
5.12	4.67	4.79	4.55
9.22	7.09	6.94	6.83
Inverter Scroll	Inverter Scroll	Inverter Scroll	Inverter Scroll
4.96 x 1	5.18 x 1	6.39 x 1	6.76 x 1
PVE	PVE	PVE	PVE
2,800	2,300	2,300	2,300
Propeller	Propeller	Propeller	Propeller
Horizontal	Horizontal	Horizontal	Horizontal
2	2	2	2
135	165	166	180
2250	2750	2766.67	3000
3.00	3.00	3.00	3.00
29.40	29.40	29.40	29.40
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
139 x 2	244 x 2	244 x 2	244 x 2
9.52	9.52	12.7	12.7
3/8	3/8	1/2	1/2
19.05	22.22	28.58	28.58
3/4	7/8	11/8	11/8
100 (130)	160 (185)	160 (185)	160 (185)
40	40	40	40
300	300	300	300
30	50	50	50
30	40	40	40
30	50	50	50
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
R410A(Fluorinated greenhouse gas, GWP=2,088)			
3.70/7.73	3.70/7.73	4.30/8.98	4.80/10.02
56	58	59	62
58	60	61	64
74	74	76	79
135.0	145.0	155.0	162.0
940 x 1,420 x 330	940 x 1,630 x 460	940 x 1,630 x 460	940 x 1,630 x 460
-5.0-48.0	-5.0-52.0	-5.0-52.0	-5.0-52.0
-20.0-24.0	-25.0-24.0	-25.0-24.0	-25.0-24.0

¹Performances are based on the following test conditions:

- Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB
- Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB
- Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

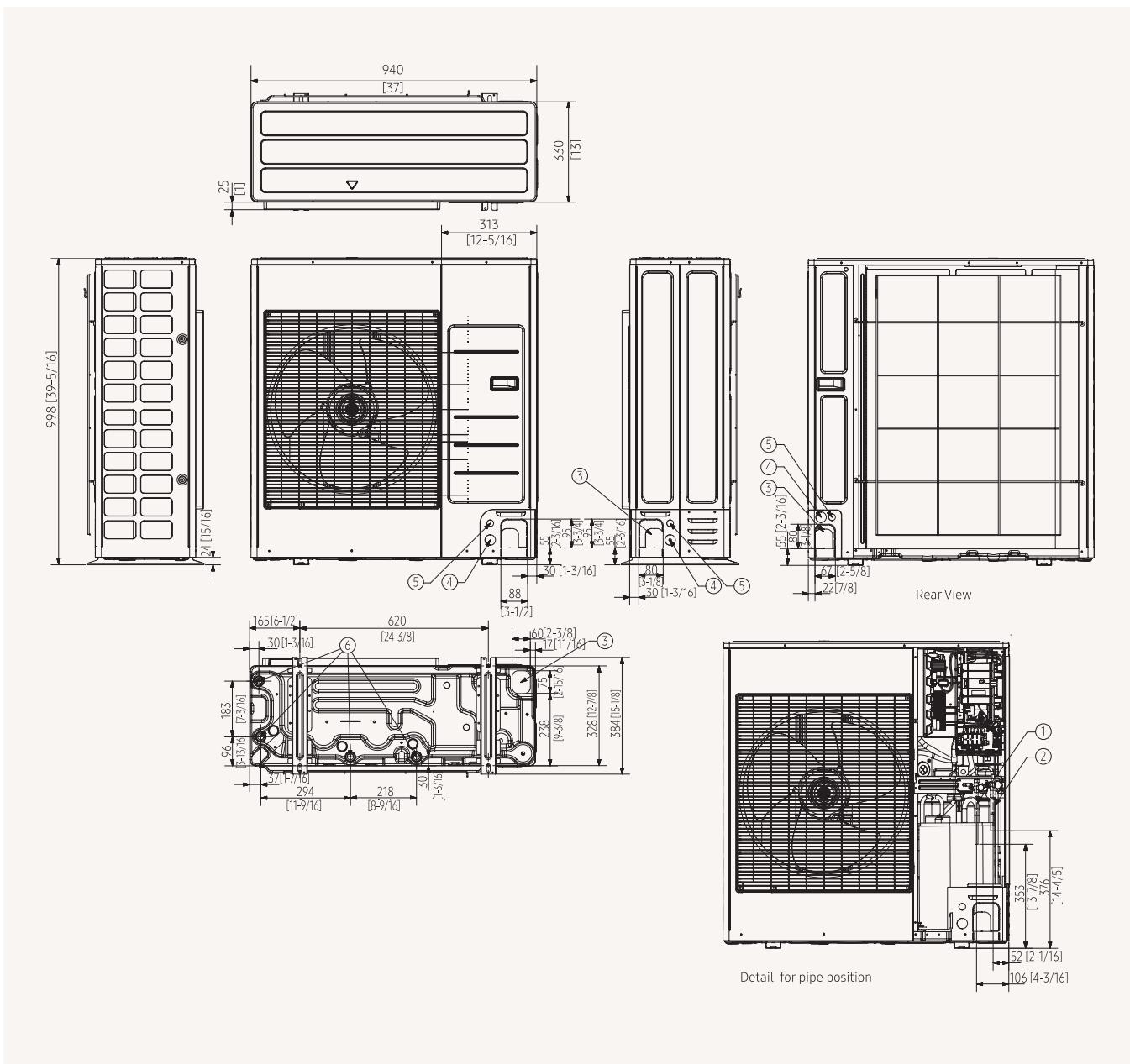
²Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

³ODU: Outdoor Unit, IDU: Indoor Unit

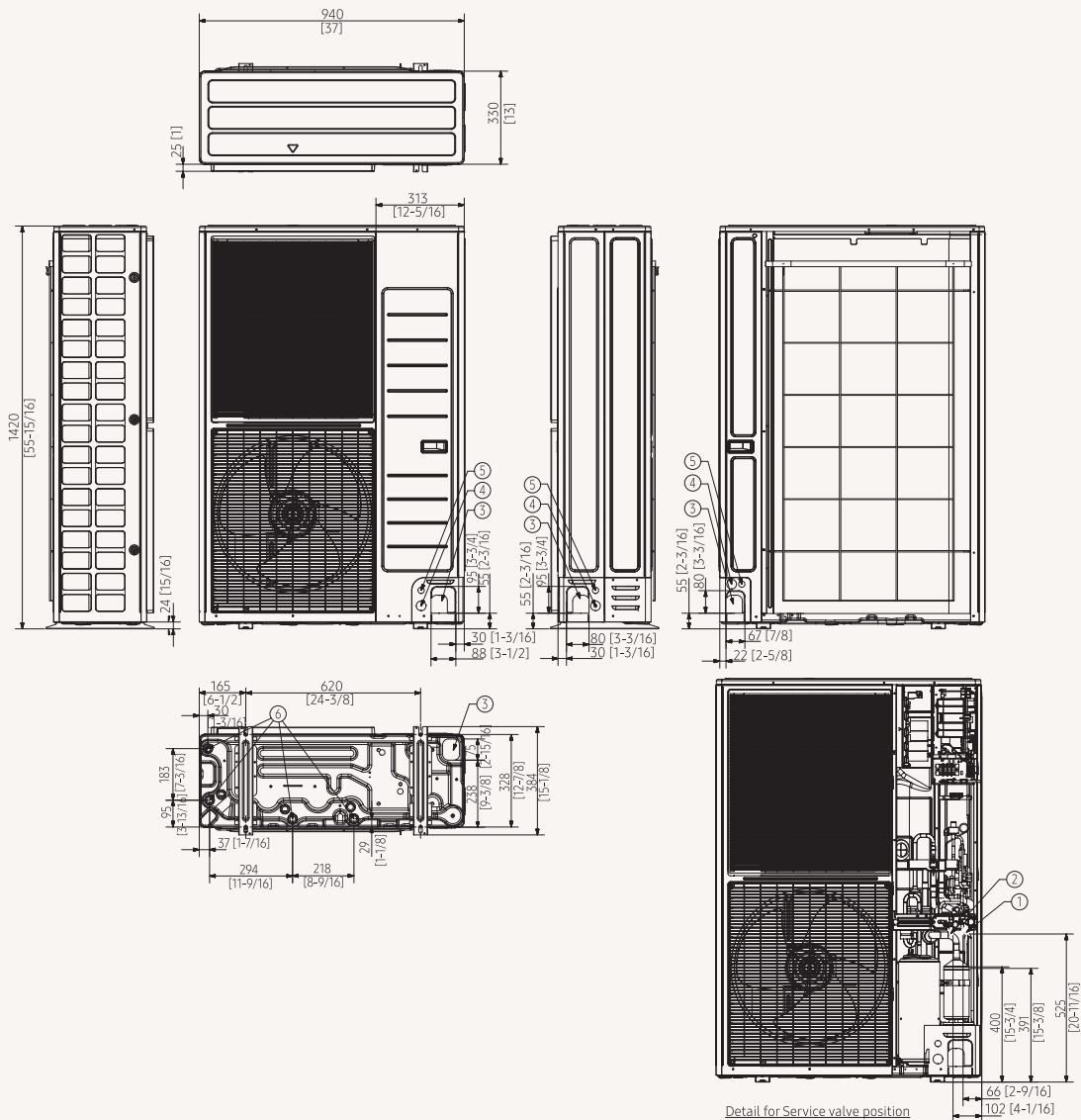
Dimensional drawings

DVM S Eco Heat Pump

AM040KXMDEH/EU, AM050KXMDE



NO	Name	Description
		4/5 hp
1	Refrigerant liquid pipe	$\varnothing 52$ ($\frac{3}{8}$)
2	Refrigerant gas pipe	$\varnothing 15.88$ ($\frac{5}{8}$)
3	Knock-out hole for pipe intake	Front/Side/Rear/Bottom
4	Power wiring conduits	Front/Side/Rear, $\varnothing 4.00$ ($\frac{1}{8}$ 3/8)
5	Communication wiring conduits	Front/Side/Rear, $\varnothing 22.00$ ($\frac{7}{8}$)
6	Drain holes	Connect with the provided drain plug.

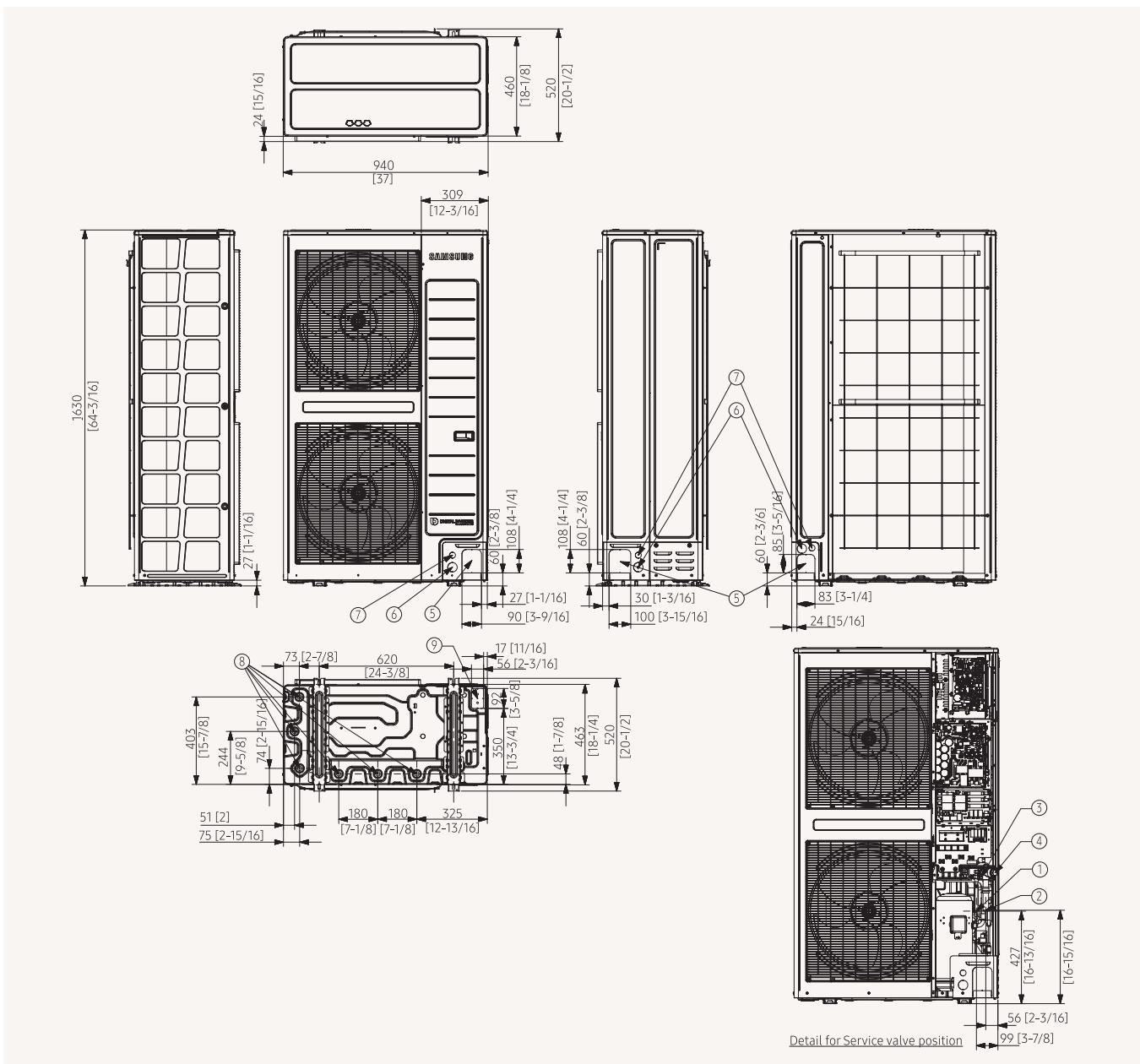


NO	Name	Description
		8 hp
1	Refrigerant gas pipe	ø19.05 (ø3/4)
2	Refrigerant liquid pipe	ø9.52 (ø3/8)
3	Knock-out hole for pipe intake	Front/Side/Rear/Bottom
4	Power wiring conduits	Front/Side/Rear, ø34.00 (ø1 3/8)
5	Communication wiring conduits	Front/Side/Rear, ø22.00 (ø7/8)
6	Drain holes	Connect with the provided drain plug.

Dimensional drawings

DVM S Eco Heat Pump

AM100KXMDGH/EU, AM120KXMDGH/EU, AM140KXMDGH/EU



NO	Name	Description
		10 hp
1	Refrigerant liquid pipe	ø9.52 (ø3/8)
2	Refrigerant gas pipe	ø22.28 (ø5/8)
3	Service valve (gas)	ø12.70 (ø1/2)
4	Service valve (liquid)	ø28.58 (ø3/4)
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 (ø1 1/8)
8	Drain holes	Connect with the provided drain plug.
9	Knock-out hole for pipe intake	Bottom



Specifications

DVM S Essential Heat Pump (2-Pipe)

- 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 Inverter Scroll compressor.
- Night Silent Mode available.
- Pump Down function (leak detection).

- "Intelligent defrost" (air resistant factor added) technology to minimise defrost operation.
- Eurovent certified and ErP (Ecodesign) compliant.
- Continuous operation in heating even during oil recovery cycle.



		Model	AM100MXVDGH/ET	AM120MXVDGH/ET	AM140MXVDGH/ET
Power Supply		Φ, #, V, Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz
Performance	hp	hp	10	12	14
	Capacity	Cooling (Rated)	kW	28.0	33.6
		Heating (Rated)		28.0	33.6
		Heating (Max)		31.5	37.8
	Maximum number of connectable indoor units	ea	18	21	26
	Total capacity of the connected indoor units	Min.	kW	14.0	16.8
		Max.		36.4	43.7
Power	Power Input	Cooling (Rated)	kW	7.18	9.36
		Heating (Rated)		6.67	8.20
		Heating (Max)		7.99	9.82
	Current Input	Cooling (Rated)	A	11.50	15.00
		Heating (Rated)		10.70	13.20
		Heating (Max)		12.80	15.80
	Current	Minimum SSC value	MVA	4.5	5.3
		MCA	A	21.1	25.0
		MFA		32	32
Energy efficiency ¹	EER	Cooling (Rated)	W/W	3.90	3.59
	COP ¹	Heating (Rated)	W/W	4.20	4.10
	ESEER		W/W	7.08	6.58
Compressor	Type	-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
	Output	kW x n		6.39 x 1	6.39 x 1
	Oil	Type	-	PVE	PVE
		Initial Charge	cc x n	1,100 x 1	1,100 x 1
Fan	Type	-	Propeller	Propeller	Propeller
	Discharge direction	-	Vertical	Vertical	Vertical
	Number of Fans	-	1	1	2
	Airflow Rate	m ³ /min	170	220	255
		l/s	2.833	3.667	4.250
	External Static Pressure	Max.	mmAq	8.00	8.00
			Pa	78.45	78.45
Fan Motor	Type	-	BLDC Motor	BLDC Motor	BLDC Motor
	Output	W x n		830 x 1	620 x 2
Piping Connections	Liquid Pipe	ø, mm	9.52	12.70	12.70
		ø, inch	3/8	1/2	1/2
	Gas Pipe	ø, mm	22.22	28.58	28.58
		ø, inch	7/8	11/8	11/8
	Piping length (ODU-IDU) ³	Max. (Equiv.)	m	200 [220]	200 [220]
	Piping length (1st Branch - IDU) ³	Max.		90	90
	Total piping length (System)	Max.		1,000	1,000
	Level difference (ODU in highest position) ³	Max.		110	110
	Level difference (IDU in highest position) ³	Max.		110	110
	Level Difference (IDU-IDU) ³	Max.		50	50
Wiring Connections	Transmission Cable	Min.	mm ²	0.75	0.75
		Remark	-	F1, F2	F1, F2
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)		
	Factory Charging	kg		5.5	6.5
		tCO ₂ e		11.48	13.57
Sound ²	Sound Pressure	Cooling	dB(A)	58	62
		Heating		60	64
	Sound Power			79	81
External Dimensions	Net Weight	kg		197.0	210.0
	Net Dimensions (W x H x D)	mm		880 x 1,695 x 765	880 x 1,695 x 765
Operating Temperature Range	Cooling	°C		-5~48	-5~48
	Heating			-25~24	-25~24



AM160MXVDGH/ET	AM180MXVDGH/ET
3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz
16	18
45.0	50.4
45.0	50.4
50.4	56.7
29	32
22.5	25.2
58.5	65.5
13.80	16.00
11.28	13.16
13.51	15.77
22.10	25.70
18.10	21.10
21.70	25.30
7.2	8.8
32.0	39.2
40	50
3.26	3.15
3.99	3.83
6.39	5.91
Inverter Scroll x1	Inverter Scroll x1
7.81 x1	7.81 x1
PVE	PVE
1,400 x1	1,400 x1
Propeller	Propeller
Vertical	Vertical
2	2
255	290
4.250	4.833
8.00	8.00
78.45	78.45
BLDC Motor	BLDC Motor
620 x2	620 x2
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 greenhouse gas, GWP=2,088)	
8.4	8.4
17.54	17.54
63	64
67	67
83	84
253.0	255.0
1,295 x 1,695 x 765	1,295 x 1,695 x 765
-5-48	-5-48
-25-24	-25-24

¹Performances are based on the following test conditions:

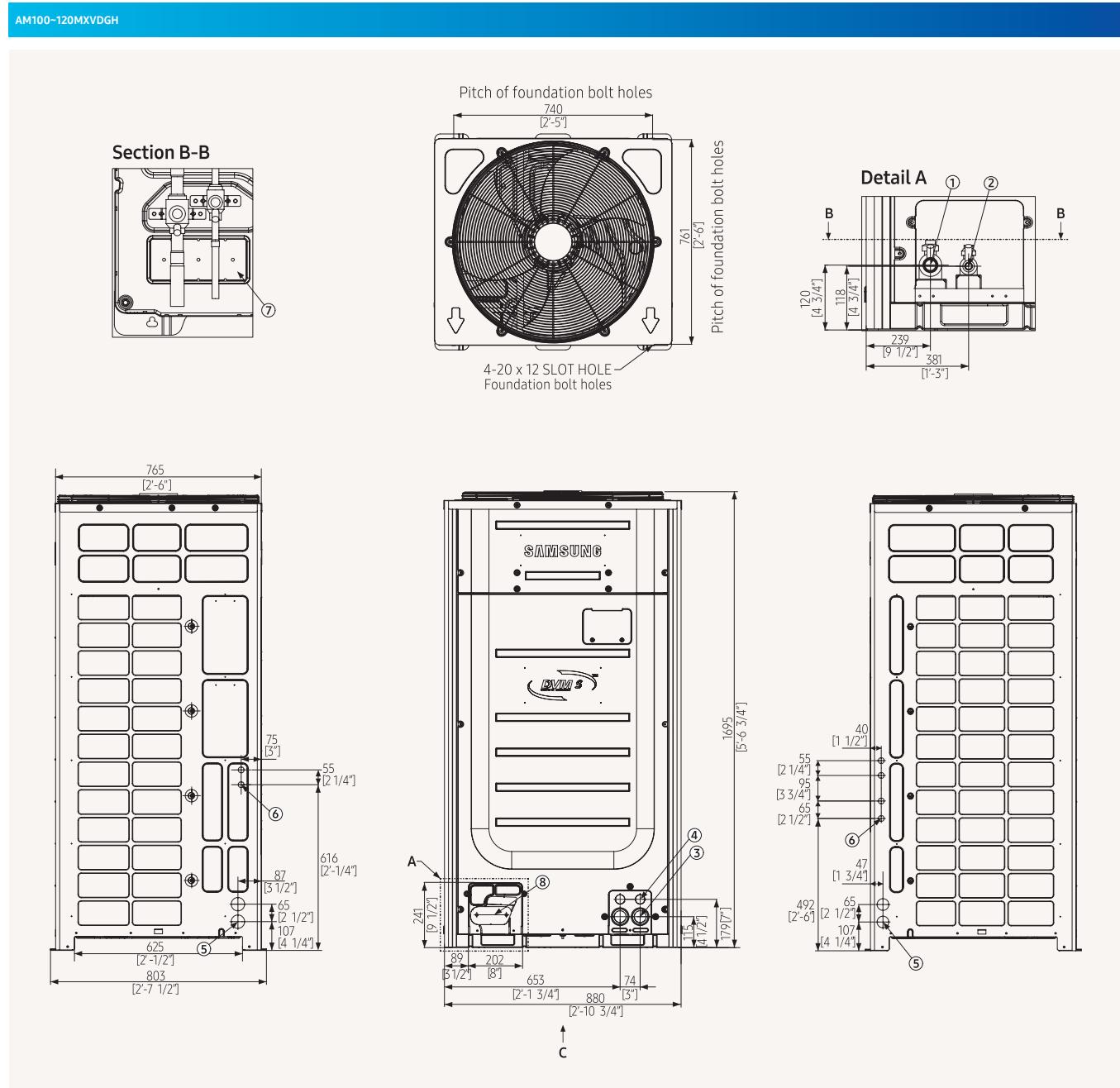
- Cooling: Indoor temperature: 27 °C DB, 19 °C WB,
Outdoor temperature: 35 °C DB, 24 °C WB
- Heating: Indoor temperature: 20 °C DB, 15 °C WB,
Outdoor temperature: 7 °C DB, 6 °C WB
- Equivalent refrigerant piping: 7.5 m,
Level differences: 0 m

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

³ODU: Outdoor Unit, IDU: Indoor Unit

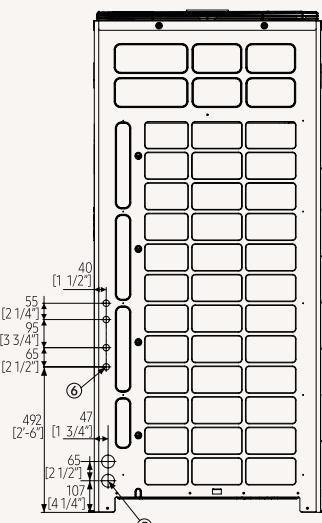
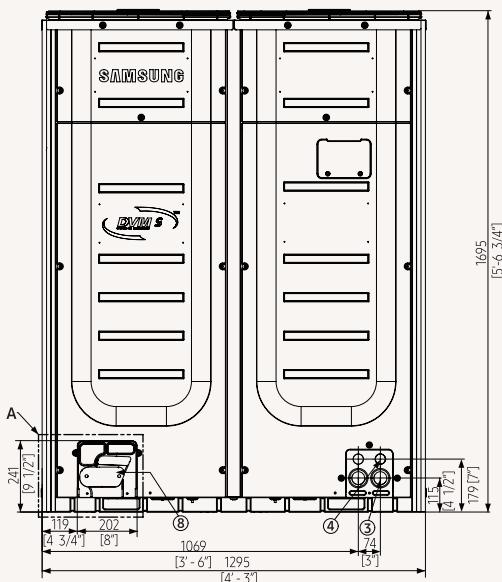
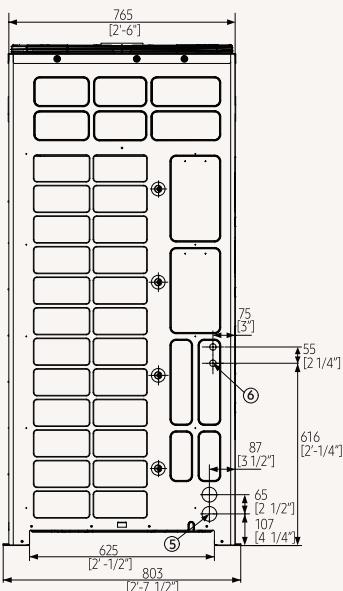
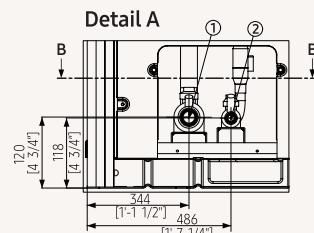
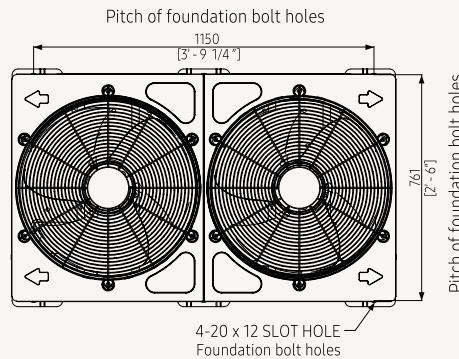
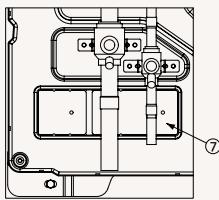
Dimensional drawings

DVM S Essential Heat Pump (2-Pipe)



NO	Name	Description
1	Gas Ref. pipe	See note 4
2	Liquid Ref. pipe	See note 4
3	Power wiring conduits	ø44
4	Communication wiring conduits	ø34
5	Power wiring conduits	ø44
6	Communication wiring conduits	ø22
7	Knock-out hole for Ref. piping (bottom)	
8	Knock-out hole for Ref. piping (front)	

AM140~180MXVDGH

Section B-B

NO	Name	Description
1	Gas Ref. pipe	See note 4
2	Liquid Ref. pipe	See note 4
3	Power wiring conduits	ø44
4	Communication wiring conduits	ø34
5	Power wiring conduits	ø44
6	Communication wiring conduits	ø22
7	Knock-out hole for Ref. piping (bottom)	
8	Knock-out hole for Ref. piping (front)	

Specifications

DVM S Standard Heat Pump (2-Pipe)

- Vertical discharge and side-rear suction with by means of one (8~18 hp) or two (20~26 hp) propeller BLDC Inverter fan(s).
- Each module houses one (8~18 hp) or two (20~26 hp) Inverter Scroll compressors with Flash Injection technology.
- Night Silent Mode available.
- Pump Down function (leak detection).
- "Intelligent defrost" (air resistant factor added) technology to minimise defrost operation.
- Eurovent certified and ErP (Ecodesign) compliant.
- Continuous operation in heating even during oil recovery cycle.



		Model	AM080JXVAGH/ET	AM100JXVAGH/ET	AM120JXVAGH/ET
Power Supply		Φ, #, V, Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 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	Power Input	Cooling kW	5.0	6.9	8.2
		Heating kW	4.5	5.9	7.1
	Current Input	Cooling A	8.00	11.00	13.10
		Heating A	7.30	9.50	11.40
	Current	MCA A	18.0	21.1	25.0
		MFA A	25.0	32.0	32.0
Energy Efficiency ¹	EER	Cooling W/W	4.48	4.09	4.12
	COP ¹	Heating W/W	4.94	4.74	4.71
Compressor	Output	kW x n	4.39 x 1	6.39 x 1	6.39 x 1
	Oil	Type	-	PVE	PVE
		Initial Charge cc x n	900	1,100	1,100
Fan	Type	-	Propeller	Propeller	Propeller
	Discharge direction	-	Vertical	Vertical	Vertical
	Number of Fans	-	1	1	1
	Airflow Rate	m ³ /min	170	170	220
		l/s	2,833.3	2,833.3	3,666.7
	External Static Pressure	Max. mmAq	8.00	8.00	8.00
		Pa	78.50	78.50	78.50
Fan Motor	Type	-	BLDC Motor	BLDC Motor	BLDC Motor
	Output	W x n	830 x 1	830 x 1	830 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	mm ²	0.75	0.75	0.75
	Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)		
	Factory Charging	kg	5.5	5.5	6.5
		tCO ₂ e	11.5	11.5	13.6
Sound ²	Sound Pressure	Cooling dB(A)	57	58	62
		Heating dB(A)	59	60	64
	Sound Power	dB(A)	77	79	81
External Dimensions	Net Weight	kg	186.0	197.0	210.0
	Net Dimensions (W x H x D)	mm	878 x 1,695 x 765	878 x 1,695 x 765	878 x 1,695 x 765
Operating Temperature Range	Cooling	°C	-5~48	-5~48	-5~48
	Heating	°C	-25~24	-25~24	-25~24



¹ Performances are based on the following test conditions:

- Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB
- Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB
- Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

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

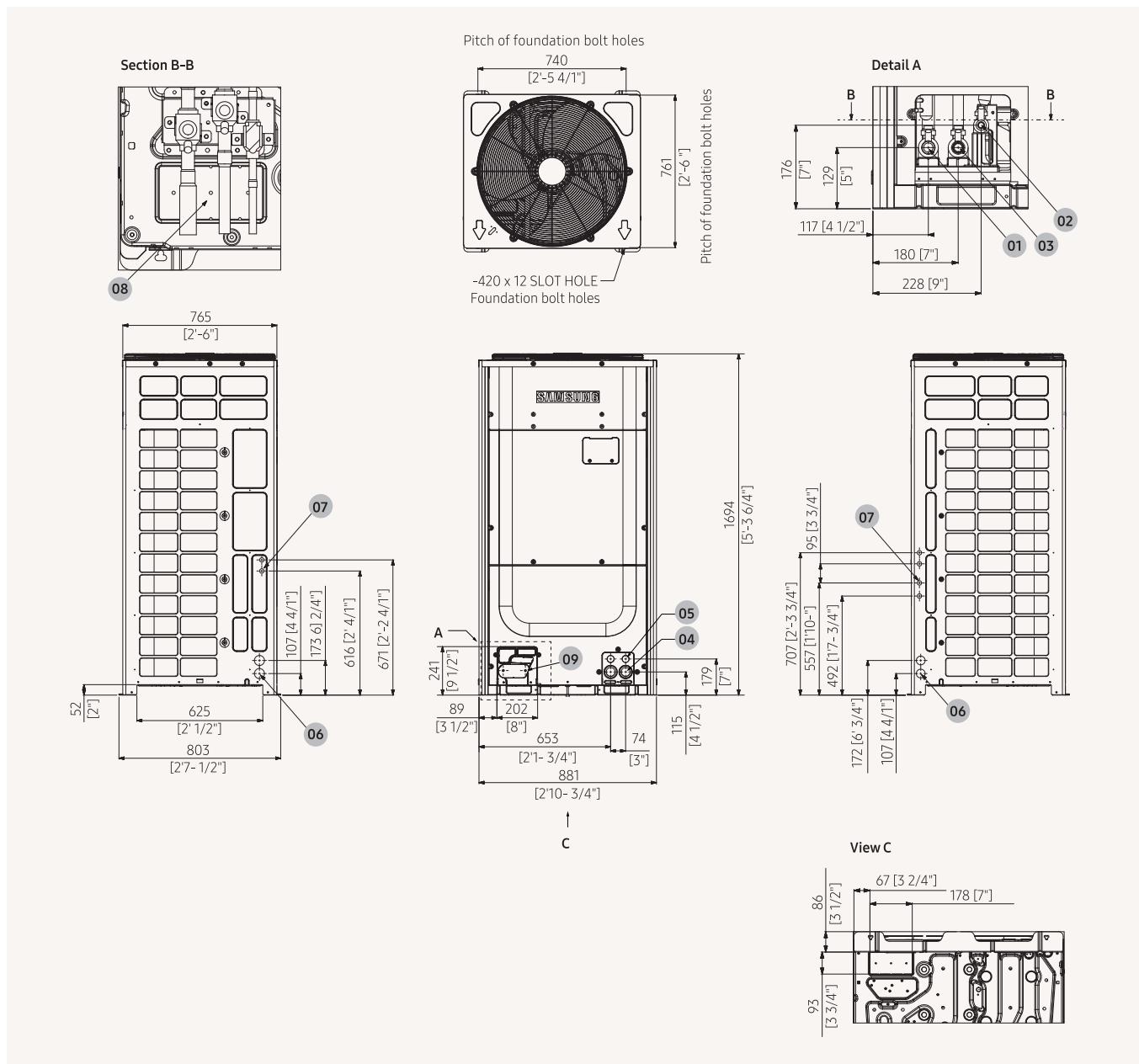
³ ODU: Outdoor Unit, IDU: Indoor Unit

AM140KXVAGH/ET	AM160KXVAGH/ET	AM180KXVAGH/ET	AM200KXVAGH/ET	AM220KXVAGH/ET	AM240KXVAGH/ET	AM260KXVAGH/ET
3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 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	58.0	67.2	72.8
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
10.9	11.6	13.6	16.2	18.5	21.0	22.5
9.0	10.1	10.8	12.2	12.9	14.9	16.5
17.50	18.70	21.90	26.00	29.70	33.70	36.00
14.50	16.20	17.30	19.50	20.70	23.90	26.50
25.0	32.0	39.2	42.0	44.6	55.0	60.0
32.0	40.0	50.0	63.0	63.0	63.0	75.0
3.66	3.87	3.70	3.45	3.32	3.20	3.20
4.43	4.46	4.68	4.60	4.50	4.50	4.40
6.39 x1	7.81 x1	7.81 x1	5.18 x2	6.39 x2	6.39 x2	6.39 x2
PVE	PVE	PVE	PVE	PVE	PVE	PVE
1,100	1,400	1,400	1,100 x 2	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
2	2	2	2	2	2	2
255	255	290	290	290	340	340
4,250.0	4,250.0	4,833.3	4,833.3	4,833.3	5,666.7	5,666.7
8.00	8.00	8.00	8.00	8.00	8.00	8.00
78.50	78.50	78.50	78.50	78.50	78.50	78.50
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2
12.70	12.70	15.88	15.88	15.88	15.88	19.05
1/2	1/2	5/8	5/8	5/8	5/8	3/4
28.58	28.58	28.58	28.58	28.58	34.92	34.92
11/8	11/8	11/8	11/8	11/8	13/8	13/8
200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	200 [220]
90	90	90	90	90	90	90
1,000	1,000	1,000	1,000	1,000	1,000	1,000
110	110	110	110	110	110	110
110	110	110	110	110	110	110
50	50	50	50	50	50	50
0.75	0.75	0.75	0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2
R410A(Fluorinated greenhouse gas, GWP=2,088)						
7.7	8.4	8.4	8.4	8.4	14.0	14.0
16.1	17.5	17.5	17.5	17.5	29.2	29.2
61	63	64	65	65	66	66
63	67	67	67	67	69	69
81	83	84	87	89	89	89
226.0	253.0	255.0	282.0	290.0	342.0	350.0
1,291 x 1,695 x 765	1,291 x 1,695 x 765	1,291 x 1,695 x 765	1,291 x 1,695 x 765	1,291 x 1,695 x 765	1,291 x 1,795 x 765	1,291 x 1,795 x 765
-5~48	-5~48	-5~48	-5~48	-5~48	-5~48	-5~48
-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24

Dimensional drawings

DVM S Standard Heat Pump (2-Pipe)

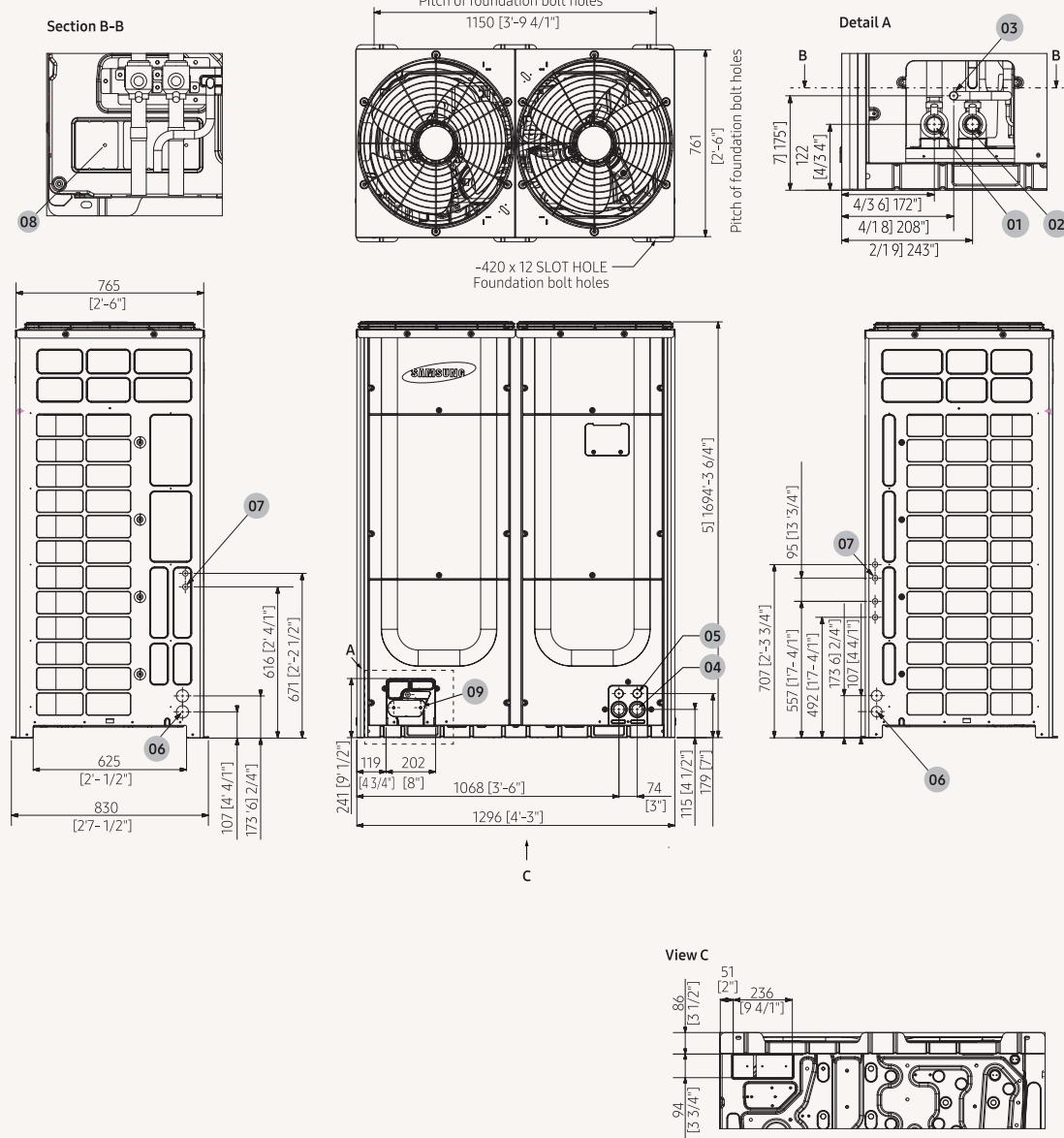
AM080/100/120JXVAGH



NO	Name	Description
1	Low Pressure Gas Ref. pipe	See note 4
2	High Pressure Gas Ref. pipe	See note 4
3	Liquid Ref. pipe	ø44
4	Power wiring conduits	ø34
5	Communication wiring conduits	ø44
6	Power wiring conduits	ø22
7	Communication wiring conduits	
8	Knock-out hole for Ref. piping (bottom)	
9	Knock-out hole for Ref. piping (front)	

1. Detail A and SECTION B-B indicate the dimensions after fixing the attached piping.
2. Item 4-9: Knock-out hole.
3. View C indicates the dimensions of the knock-out hole (bottom).
4. Pipe [\varnothing , mm (inch)]: Brazing connection.

AM140/160/180/200/220KXVAGH



NO	Name	Description
1	Low Pressure Gas Ref. pipe	See note 4
2	High Pressure Gas Ref. pipe	See note 4
3	Liquid Ref. pipe	ø44
4	Power wiring conduits	ø34
5	Communication wiring conduits	ø44
6	Power wiring conduits	ø22
7	Communication wiring conduits	
8	Knock-out hole for Ref. piping (bottom)	
9	Knock-out hole for Ref. piping (front)	

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

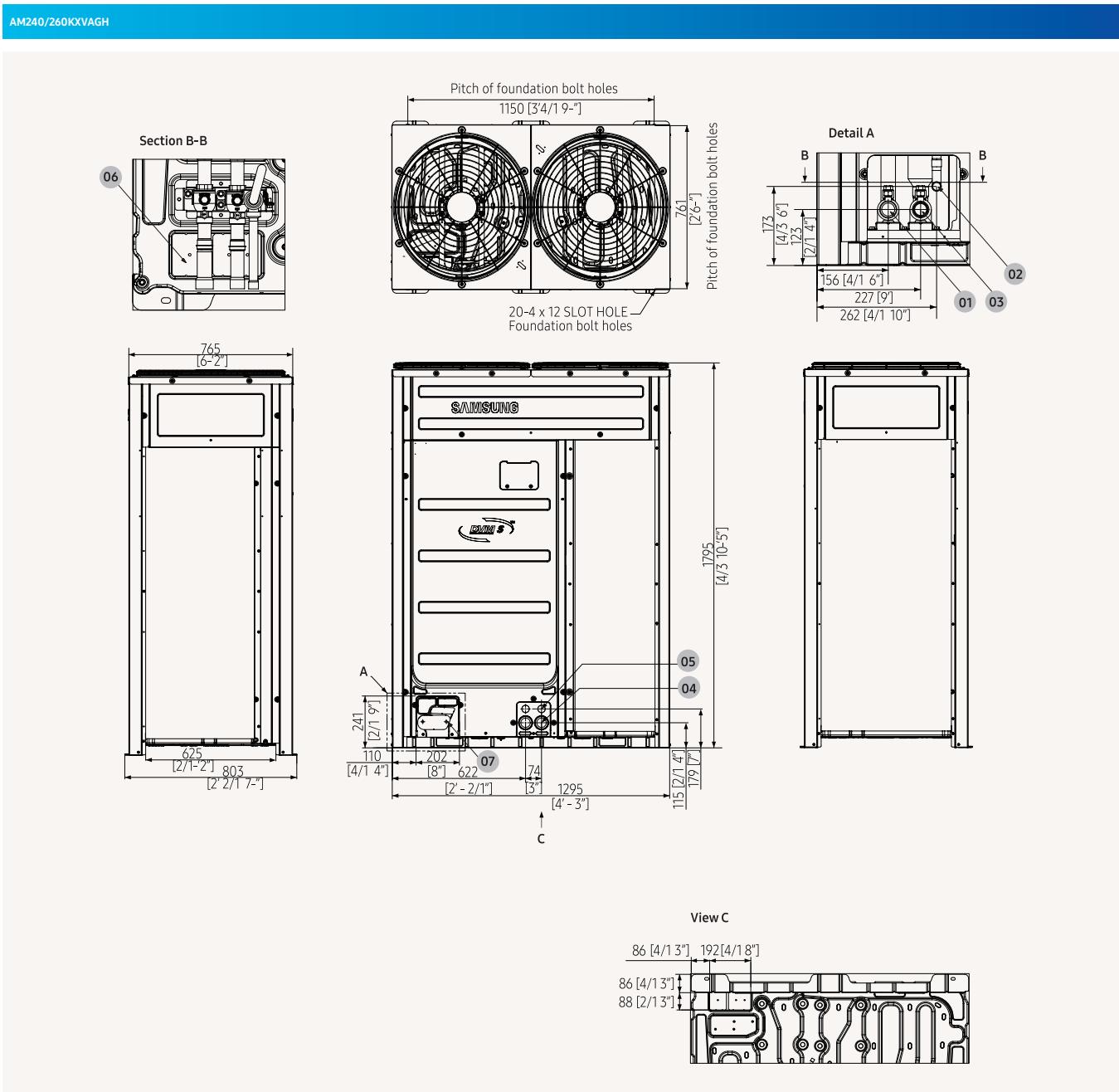
2. Item 4-9: Knock-out hole.

3. View C indicates the dimensions of the knock-out hole (bottom).

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

Dimensional drawings

DVM S Standard Heat Pump (2-Pipe)



NO	Name	Description
1	Low Pressure Gas Ref. pipe	See note 4
2	High Pressure Gas Ref. pipe	See note 4
3	Liquid Ref. pipe	ø44
4	Power wiring conduits	ø34
5	Communication wiring conduits	ø44
6	Power wiring conduits	ø22
7	Communication wiring conduits	
8	Knock-out hole for Ref. piping (bottom)	
9	Knock-out hole for Ref. piping (front)	

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

2. Item 4-9: Knock-out hole.

3. View C indicates the dimensions of the knock-out hole (bottom).

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



Specifications

DVM S High EER Heat Pump (2-Pipe)

- Vertical discharge and side-rear suction with by means of one (8~18 hp) or two (20~26 hp) propeller BLDC Inverter fan(s).
- Each module houses one (8~18 hp) or two (20~26 hp) Inverter Scroll compressors with Flash Injection technology.
- Night Silent Mode available.
- Pump Down function (leak detection).
- "Intelligent defrost" (air resistant factor added) technology to minimise defrost operation.
- Eurovent certified and ErP (Ecodesign) compliant.
- Continuous operation in heating even during oil recovery cycle.



Model			AM080JXVHGH/ET	AM100JXVHGH/ET	AM120JXVHGH/ET
Power Supply		Φ, #, V, Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz
Performance	hp	hp	8	10	12
	Capacity	Cooling	kW	22.4	28.0
		Heating		22.4	28.0
	Maximum number of connectable indoor units	ea		14	18
	Total capacity of the connected indoor units	Min.	kW	11.2	14.0
		Max.		29.1	36.4
	Power	Cooling	kW	4.59	6.22
		Heating		4.08	5.23
	Power Input	Cooling	A	7.40	10.00
		Heating		6.50	8.40
	Current Input	Minimum SSC value	MVA	3.1	4.5
		MCA	A	18.0	21.1
		MFA		25	32
Energy Efficiency ¹	EER	Cooling	W/W	4.88	4.50
	COP ¹	Heating	W/W	5.49	5.35
Compressor	Output		kW x n	5.18 x 1	6.39 x 1
	Oil	Type	-	PVE	PVE
		Initial Charge	cc x n	1,100 x 1	1,100 x 1
Fan	Type	-	Propeller	Propeller	Propeller
	Discharge direction	-	Top	Top	Top
	Number of Fans	-	1	1	1
	Airflow Rate		m ³ /min	170	170
			l/s	2,833	2,833
	External Static Pressure	Max.	mmAq	8.00	8.00
			Pa	78.45	78.45
Fan Motor	Type	-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	830 x 1	830 x 1
Piping Connections	Liquid Pipe	ø, mm		9.52	9.52
		ø, inch		3/8	3/8
	Gas Pipe	ø, mm		19.05	22.22
		ø, inch		3/4	7/8
	Piping length (ODU-IDU) ³	Max. (Equiv.)	m	200 [220]	200 [220]
	Piping length (1st Branch - IDU) ³	Max.		90	90
	Total piping length (System)	Max.		1,000	1,000
	Level difference (ODU in highest position) ³	Max.		110	110
	Level difference (IDU in highest position) ³	Max.		110	110
	Level Difference (IDU-IDU) ³	Max.		50	50
Wiring Connections	Transmission Cable		mm ²	0.75	0.75
	Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type	-		R410A(Fluorinated greenhouse gas, GWP=2,088)	
	Factory Charging	kg		6.5	6.5
		tCO ₂ e		13.57	13.57
Sound ²	Sound Pressure	Cooling	dB(A)	57	58
		Heating		59	60
	Sound Power		dB(A)	77	79
External Dimensions	Net Weight	kg		195.5	195.5
	Net Dimensions (W x H x D)	mm		880 x 1,695 x 765	880 x 1,695 x 765
Operating Temperature Range	Cooling	°C		-5~48	-5~48
	Heating			-25~24	-25~24



¹ Performances are based on the following test conditions:
 - Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB
 - Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB
 - Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

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

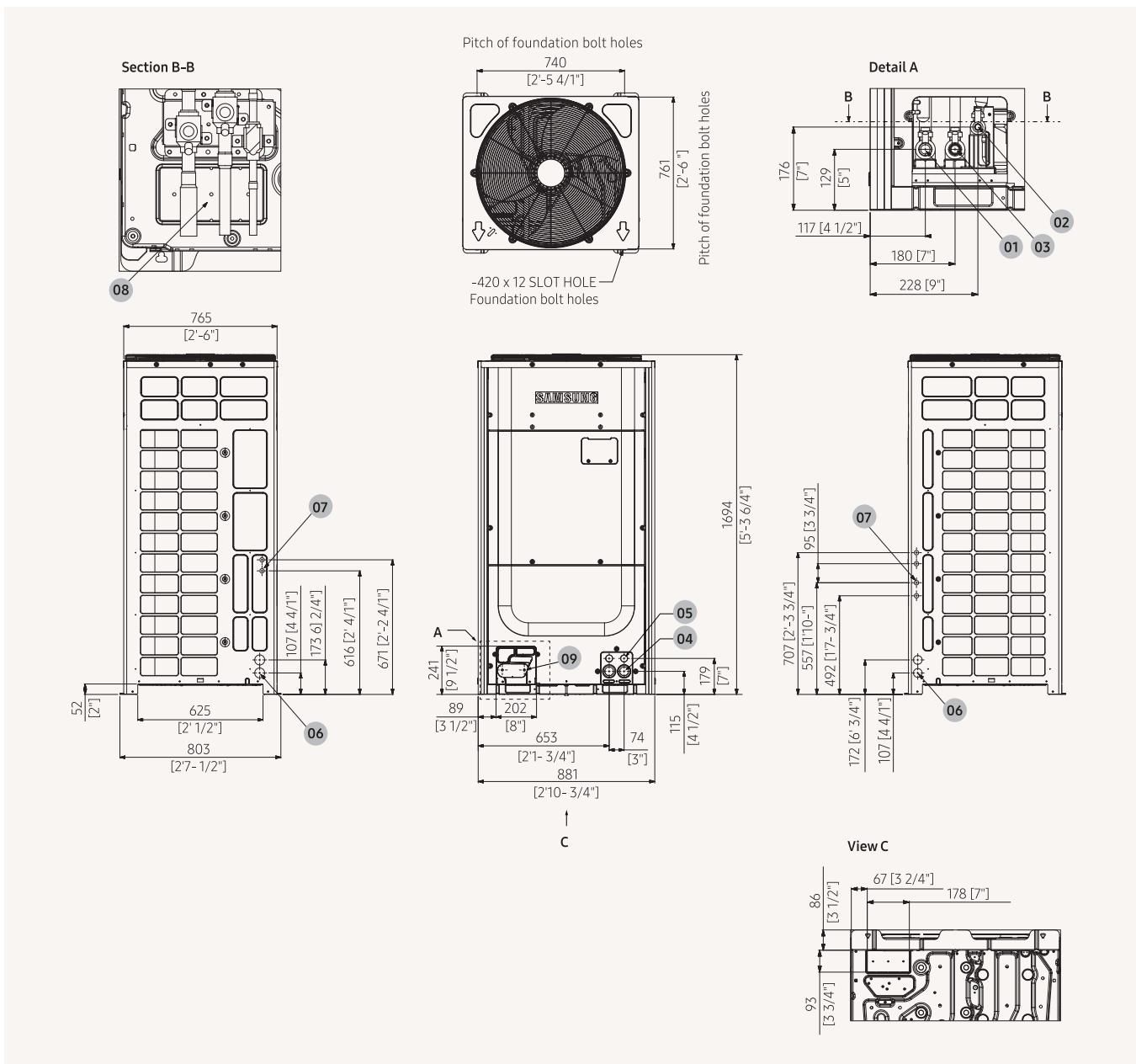
³ ODU: Outdoor Unit, IDU: Indoor Unit

AM140JXVGH/ET	AM160JXVGH/ET	AM180JXVGH/ET	AM200JXVGH/ET	AM220JXVGH/ET	AM240KXVGHH/ET	AM260KXVGHH/ET
3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 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	72.8
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
8.89	10.92	12.32	13.83	15.88	18.61	20.92
8.55	8.95	10.02	11.22	12.91	13.20	15.17
14.30	17.50	19.80	22.20	25.50	29.80	33.60
13.70	14.40	16.10	18.00	20.70	21.20	24.30
5.3	6.6	7.6	8.0	8.6	12.5	12.2
25.0	32.0	39.2	42.0	44.6	55.0	60
32	40	50	63	63	63	75
4.50	4.12	4.09	4.05	3.88	3.61	3.48
4.68	5.03	5.03	4.99	4.77	5.09	4.80
6.39 x1	4.39 x 2	6.39 x 2	6.39 x 2	6.39 x 2	6.76 x 2	7.81 x 2
PVE	PVE	PVE	PVE	PVE	PVE	PVE
1,100 x1	900 x 2	1,100 x 2	1,100 x 2	1,100 x 2	1,100 x 2	1,400 x 2
Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Top	Top	Top	Top	Top	Top	Top
2	2	2	2	2	2	2
255	255	290	290	290	340	340
4,250	4,250	4,833	4,833	4,833	5,667	5,667
8.00	8.00	8.00	8.00	8.00	8.00	8.00
78.45	78.45	78.45	78.45	78.45	78.45	78.45
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2
12.70	12.70	15.88	15.88	15.88	15.88	19.05
1/2	1/2	5/8	5/8	5/8	5/8	3/4
28.58	28.58	28.58	28.58	28.58	34.92	34.92
11/8	11/8	11/8	11/8	11/8	1 3/8	1 3/8
200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	200 [220]
90	90	90	90	90	90	90
1,000	1,000	1,000	1,000	1,000	1,000	1,000
110	110	110	110	110	110	110
110	110	110	110	110	110	110
50	50	50	50	50	50	50
0.75	0.75	0.75	0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2
R410A(Fluorinated greenhouse gas, GWP=2,088)						
9.4	9.4	8.4	11.0	11.0	14.0	14.0
19.63	19.63	17.54	22.97	22.97	29.23	29.23
61	62	63	64	65	69	69
63	66	67	67	67	71	71
81	82	85	86	88	90	90
253.0	284.0	293.0	308.0	308.0	342.0	350.0
1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,795 x 765	1,295 x 1,795 x 765
-5~48	-5~48	-5~48	-5~48	-5~48	-5~48	-5~48
-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24

Dimensional drawings

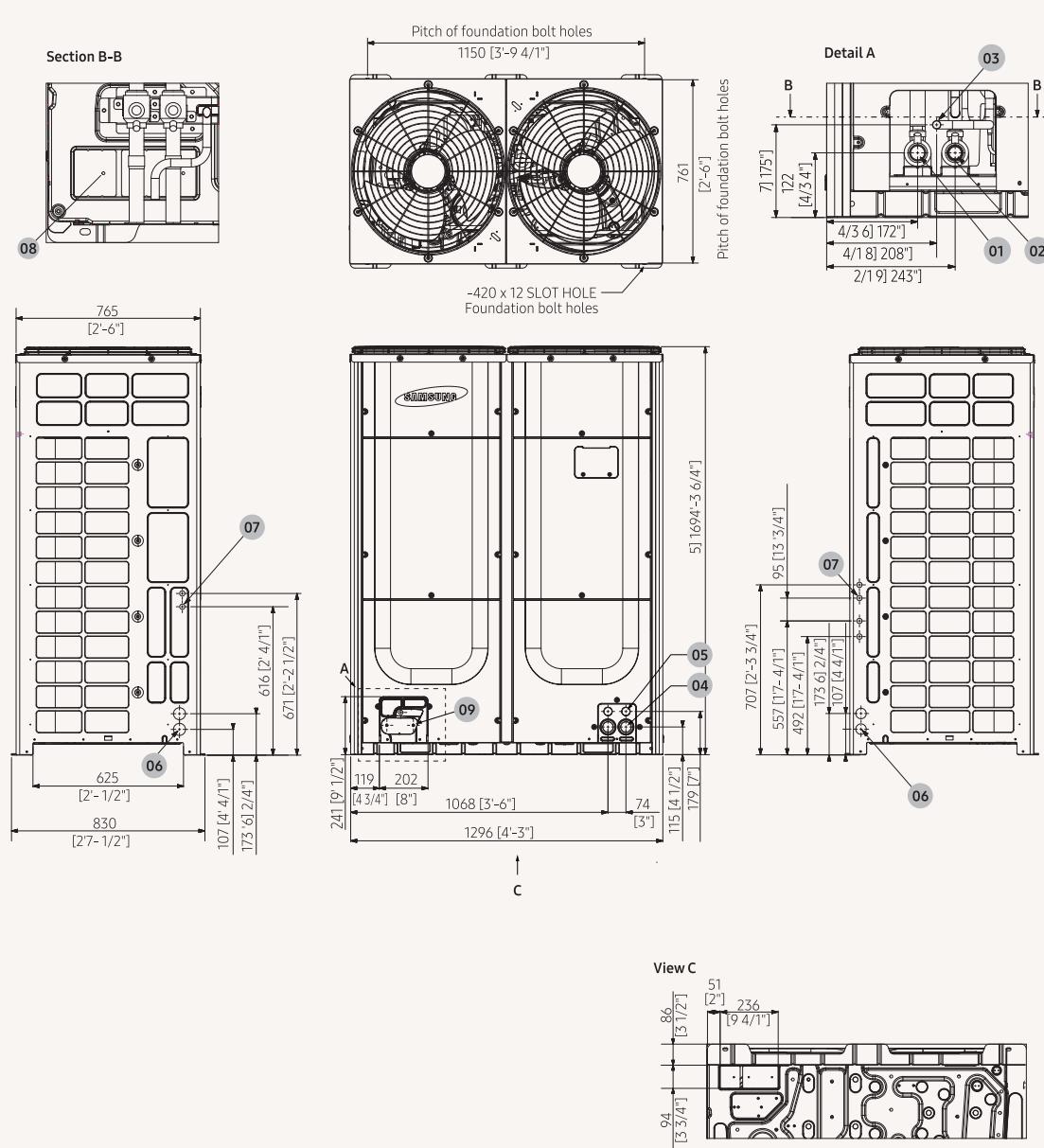
DVM S High EER Heat Pump (2-Pipe)

AM080/100/120JXVHGH



NO	Name	Description
1	Refrigerant gas pipe	See note 4
2	Refrigerant liquid pipe	See note 4
3	Power wiring conduits	ø44
4	Communication wiring conduits	ø34
5	Power wiring conduits	ø44
6	Communication wiring conduits	ø22
7	Knock-out hole for Ref. piping (bottom)	
8	Knock-out hole for Ref. piping (front)	

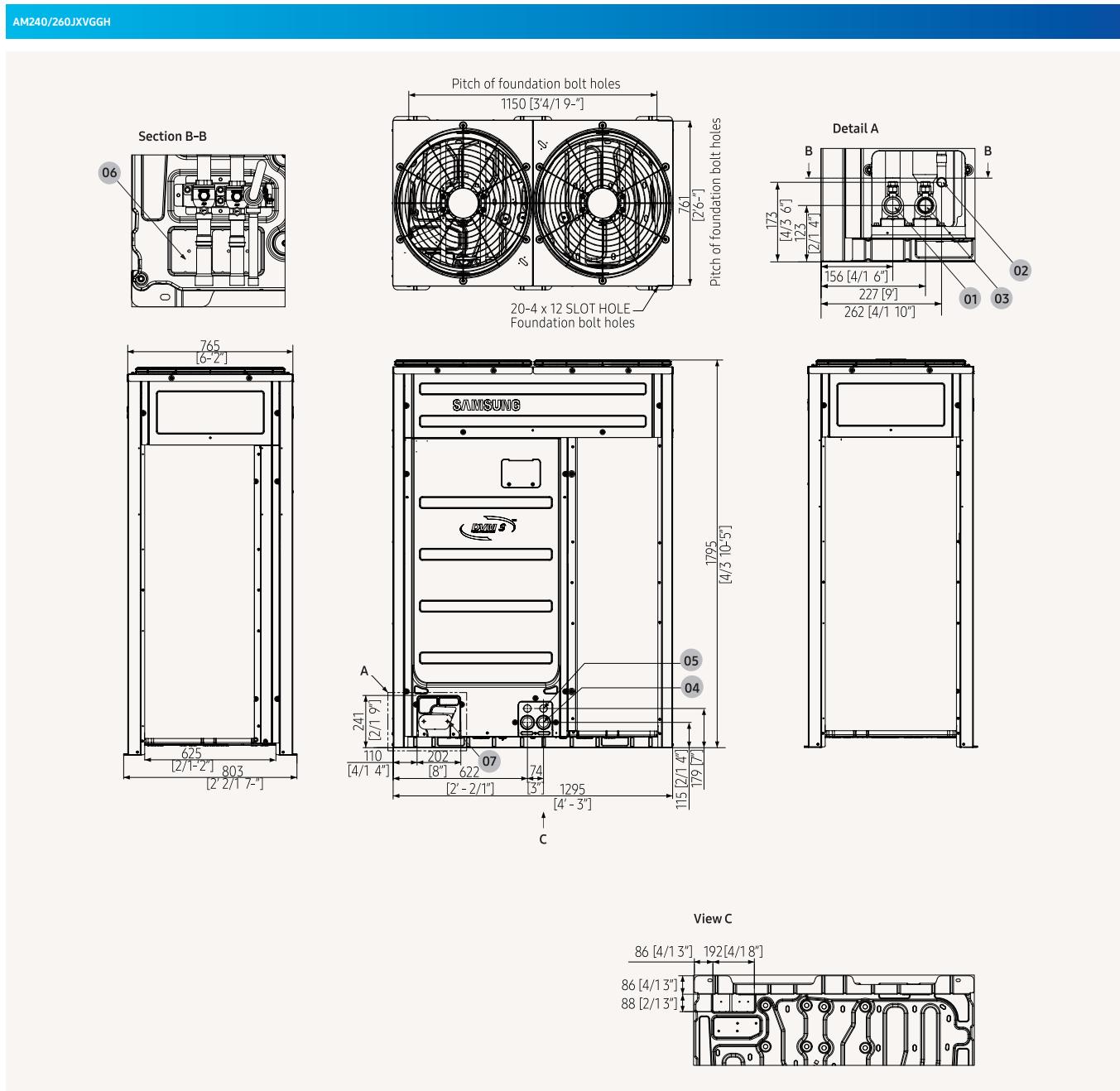
AM140/160/180/200/220JXVHGH



NO	Name	Description
1	Refrigerant gas pipe	See note 4
2	Refrigerant liquid pipe	See note 4
3	Power wiring conduits	ø44
4	Communication wiring conduits	ø34
5	Power wiring conduits	ø44
6	Communication wiring conduits	ø22
7	Knock-out hole for Ref. piping (bottom)	
8	Knock-out hole for Ref. piping (front)	

Dimensional drawings

DVM S High EER Heat Pump (2-Pipe)



NO	Name	Description
1	Refrigerant gas pipe	See note 4
2	Refrigerant liquid pipe	See note 4
3	Power wiring conduits	$\varnothing 44$
4	Communication wiring conduits	$\varnothing 34$
5	Knock-out hole for Ref. piping (bottom)	
6	Knock-out hole for Ref. piping (front)	



Specifications

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

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



Model		AM040NXMDER/EU		AM050NXMDER/EU		AM060NXMDER/EU	
Power Supply		Φ , V, Hz		1Φ, 220~240 V, 50 Hz		1Φ, 220~240 V, 50 Hz	
Performance	hp	hp		4	5	6	
	Capacity	Cooling	kW	12.1	14.0	15.5	
Power	Power Input (Nominal)		Heating	12.1	14.0	15.5	
			Cooling	2.69	3.41	4.13	
	Current Input (Nominal)		Heating	2.58	3.11	3.65	
			Cooling	4.1	5.2	6.3	
	Current		Heating	3.8	4.5	5.3	
			MCA	22.0	24.0	30.0	
		MFA		25	30	40	
Energy Efficiency ¹	EER (Nominal Cooling)		-	4.50	4.11	3.75	
	COP ¹ (Nominal Heating)		-	4.69	4.50	4.25	
	SEER		-	10.50	10.10	9.50	
Compressor	Type	-	Twin BLDC Rotary	Twin BLDC Rotary		Twin BLDC Rotary	
	Output	kW	4.04	4.04		4.04	
	Oil	Type	-	PVE	PVE	PVE	
		Initial Charge	cc	1,700	1,700	1,700	
Fan	Type	-	Propeller/BLDC	Propeller/BLDC		Propeller/BLDC	
	Discharge direction	-	Horizontal	Horizontal		Horizontal	
	Motor (Output)	kW x n	125.0 x 2	125.0 x 2		125.0 x 2	
	Airflow Rate	(H/M/L)	m ³ /min	100	100	100	
		(H/M/L)	l/s	1,666.7	1,666.7	1,666.7	
	External Static Pressure	(Min/Std/Max)	mmAq	3	3	3	
Piping Connections	Liquid Pipe	\varnothing , mm	9.52	9.52		9.52	
		\varnothing , inch	3/8	3/8		3/8	
	Gas Pipe	\varnothing , mm	15.88	15.88		19.05	
		\varnothing , inch	5/8	5/8		3/4	
	Discharge Gas Pipe	\varnothing , mm	15.88	15.88		15.88	
		\varnothing , inch	5/8	5/8		5/8	
	Installation Max. Length	m	150	150		150	
	Installation Max. Height	m	50	50		50	
Field Wiring	Transmission Cable	m	0.75~1.50	0.75~1.50		0.75~1.50	
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)				
	Factory Charging	kg	3.2	3.2		3.3	
		kg / tCO ₂ e	6.7	6.7		6.9	
Sound ²	Sound Pressure	dB(A)	52	52		53	
	Sound Power		67	68		70	
External Dimensions	Net Weight	kg	97.0	97.0		100.0	
	Net Dimensions (W x H x D)	mm	940 x 1,210 x 330	940 x 1,210 x 330		940 x 1,210 x 330	
Operating Temperature Range	Cooling	°C	-5.0~48.0	-5.0~48.0		-5.0~48.0	
	Heating	°C	-25.0~26.0	-25.0~26.0		-25.0~26.0	



AM040NMDGR/EU	AM050NMDGR/EU	AM060NMDGR/EU
3Φ, 380–415 V, 50 Hz	3Φ, 380–415 V, 50 Hz	3Φ, 380–415 V, 50 Hz
4	5	6
12.1	14.0	15.5
12.1	14.0	15.5
2.69	3.41	4.13
2.58	3.11	3.65
4.1	5.2	6.3
3.8	4.5	5.3
10.0	12.0	12.0
16	16	16
4.50	4.11	3.75
4.69	4.50	4.25
10.50	10.10	9.50
Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
4.04	4.04	4.04
PVE	PVE	PVE
1,700	1,700	1,700
Propeller/BLDC	Propeller/BLDC	Propeller/BLDC
Horizontal	Horizontal	Horizontal
125.0 x 2	125.0 x 2	125.0 x 2
100	100	100
1,666.7	1,666.7	1,666.7
3	3	3
9.52	9.52	9.52
3/8	3/8	3/8
19.05	19.05	19.05
3/4	3/4	3/4
15.88	15.88	15.88
5/8	5/8	5/8
150	150	150
50	50	50
0.75–1.50	0.75–1.50	0.75–1.50
R410A(Fluorinated greenhouse gas, GWP=2,088)		
3.2	3.2	3.3
6.7	6.7	6.9
52	52	53
67	68	70
95.0	95.0	98.0
940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330
-5.0–48.0	-5.0–48.0	-5.0–48.0
-25.0–26.0	-25.0–26.0	-25.0–26.0

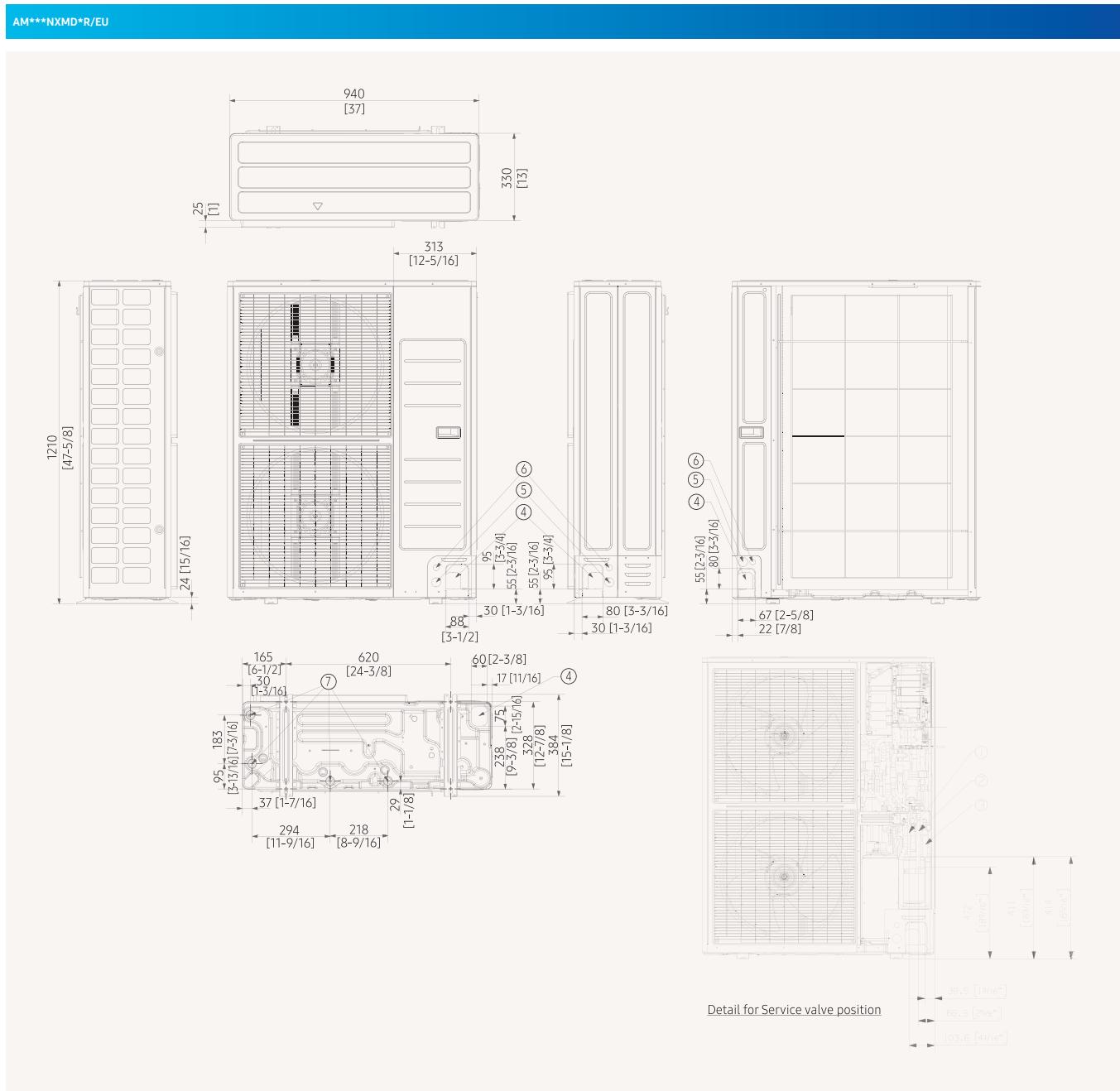
¹Performances are based on the following test conditions:

- Cooling: Indoor temperature: 27 °C DB, 19 °C WB,
Outdoor temperature: 35 °C DB, 24 °C WB
- Heating: Indoor temperature: 20 °C DB, 15 °C WB,
Outdoor temperature: 7 °C DB, 6 °C WB
- Equivalent refrigerant piping: 7.5 m,
Level differences: 0 m

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

Dimensional drawings

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



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.



Specifications

DVM S High EER Heat Recovery (3-Pipe)

- Vertical discharge and side-rear suction with by means of one (8~14 hp) or two (16~26 hp) propeller BLDC Inverter fan(s).
- Each module houses one (8~14 hp) or two (16~26 hp) Inverter Scroll compressors with Flash Injection technology.
- Night Silent Mode available.
- Pump Down function (leak detection).
- "Intelligent defrost" (air resistant factor added) technology to minimise defrost operation.
- Eurovent certified and ErP (Ecodesign) compliant.



Model		AM080JXVHGR/ET		AM100JXVHGR/ET		AM120JXVHGR/ET	
Power Supply	Φ, #, V, Hz	3Φ, 4, 380–415 V, 50 Hz		3Φ, 4, 380–415 V, 50 Hz		3Φ, 4, 380–415 V, 50 Hz	
Mode	-	HEAT RECOVERY		HEAT RECOVERY		HEAT RECOVERY	
Performance	hp	hp	8	10	12		
	Capacity	Cooling	kW	22.4/22.4*	28.0/28.0*	33.6/33.6*	
		Heating	kW	25.2/22.4*	31.5/28.0*	37.8/33.6*	
	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	Power Input	Cooling	kW	4.59/4.59*	6.22/6.22*	7.57/7.57*	
		Heating	kW	4.59/4.08*	5.89/5.23*	7.56/6.72*	
	Current Input	Cooling	A	7.40	10.00	12.10	
		Heating	A	7.40	9.40	12.10	
	Current	Minimum SSC value	MVA	3.1	4.5	5.3	
		MCA	A	18.0	21.1	25.0	
		MFA	A	25	32	32	
Energy Efficiency ¹	EER	Cooling	W/W	4.88/4.88*	4.50/4.50*	4.44/4.44*	
		Heating	W/W	5.49/5.49*	5.35/5.35*	5.00/5.00*	
	ESEER		W/W	8.00	7.43	7.23	
Compressor	Output		kW x n	5.18 x 1	6.39 x 1	6.39 x 1	
	Model Name	-		DS-GB052FAV* x 1	DS-GB066FAV* x 1	DS-GB066FAV* x 1	
	Oil	Type	-	PVE	PVE	PVE	
		Initial Charge	cc x n	1,100 x 1	1,100 x 1	1,100 x 1	
Fan	Type	-		Propeller	Propeller	Propeller	
	Discharge direction	-		Top	Top	Top	
	Number of Fans	-		1	1	1	
	Airflow Rate		m³/min	170	170	200	
			l/s	2,833	2,833	3,333	
	External Static Pressure	Max.	mmAq	8.00	8.00	8.00	
			Pa	78.45	78.45	78.45	
Fan Motor	Type	-		BLDC Motor	BLDC Motor	BLDC Motor	
	Output		W x n	830 x 1	830 x 1	830 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	40	40	40	
Wiring Connections	Transmission Cable		mm²	0.75	0.75	0.75	
	Remark	-		F1, F2	F1, F2	F1, F2	
Refrigerant	Type	-		R410A(Fluorinated greenhouse gas, GWP=2,088)			
	Factory Charging		kg	6.5	6.5	6.5	
			tCO ₂ e	13.6	13.6	13.6	
Sound ²	Sound Pressure	Cooling	dB(A)	57	58	62	
		Heating	dB(A)	59	60	64	
	Sound Power		dB(A)	77	79	81	
External Dimensions	Net Weight		kg	200.5	200.5	200.5	
	Net Dimensions (W x H x D)		mm	880 x 1,695 x 765	880 x 1,695 x 765	880 x 1,695 x 765	
Operating Temperature Range	Cooling		°C	-15~48	-15~48	-15~48	
	Heating		°C	-25~24	-25~24	-25~24	



¹ Performances are based on the following test conditions:

- Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB
- Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB
- Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

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

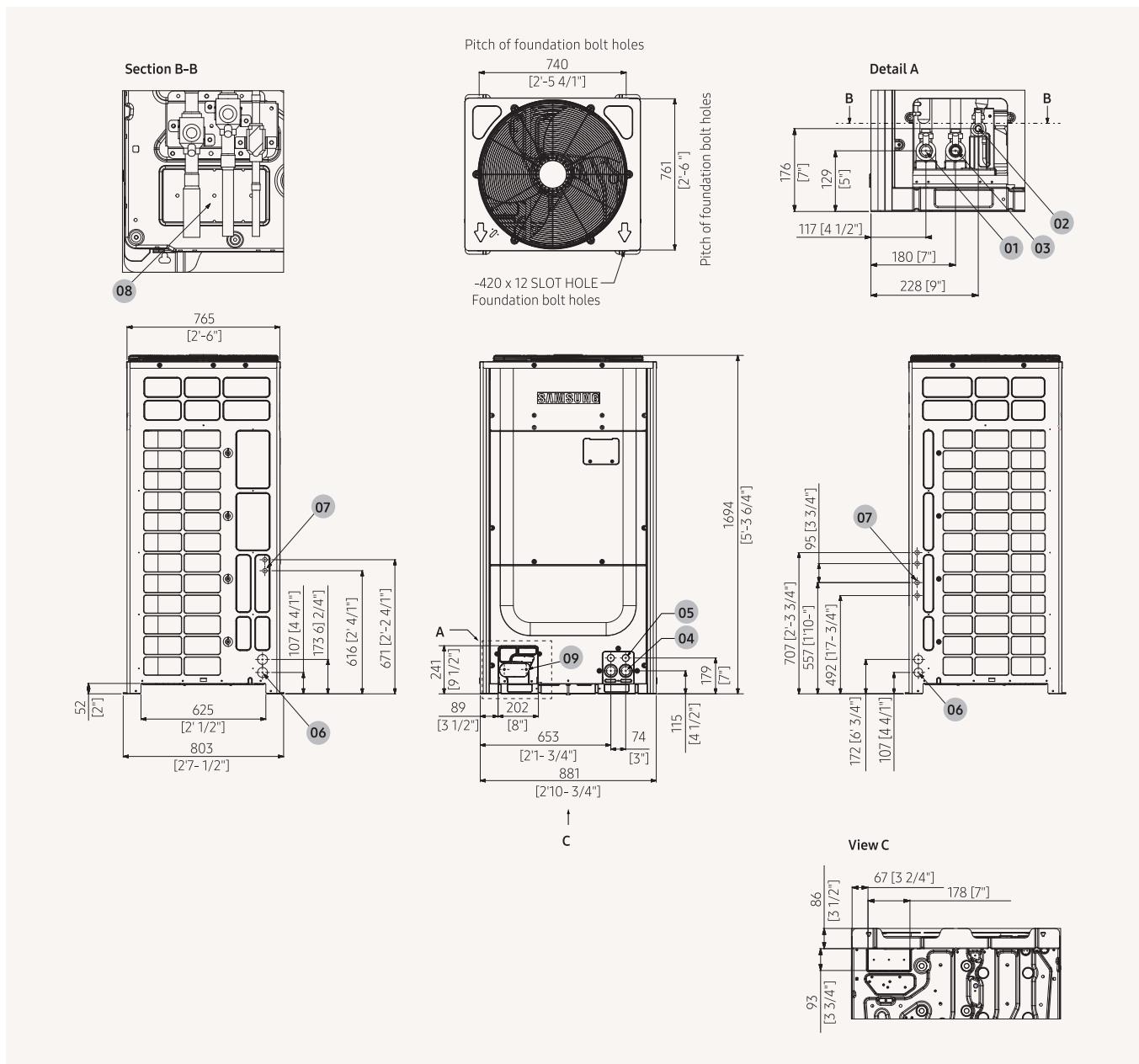
³ ODU: Outdoor Unit, IDU: Indoor Unit

AM140JXVHGR/ET	AM160JXVHGR/ET	AM180JXVHGR/ET	AM200JXVHGR/ET	AM220JXVHGR/ET	AM240MXVGNR/ET	AM260MXVGNR/ET
3Φ, 4, 380~415 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz	3Φ, 4, 380~415 V, 50/60 Hz	3Φ, 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
40.0/40.0*	45.0/45.0*	50.4/50.4*	56.0/56.0*	61.6/61.6*	67.2/67.2*	72.8/72.8*
45.0/40.0*	50.4/45.0*	56.7/50.4*	63.0/56.0*	69.3/61.6*	75.6/67.2*	81.9/72.8*
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
8.89/8.89*	10.92/10.92*	10.68/12.32*	12.50/13.83*	15.75/15.88*	16.00/18.61*	17.33/20.92*
9.62/8.55*	10.75/8.95*	10.52/10.02*	12.75/11.22*	15.86/12.91*	15.43/13.20*	17.06/15.17*
14.30	17.50	17.10	20.00	25.30	29.80	27.80
15.40	17.20	16.90	20.50	25.40	21.20	27.40
5.3	6.6	7.6	8.0	8.6	12.5	12.2
25.0	32.0	39.2	42.0	44.6	55.0	60.0
32	40	50	63	63	63	75
4.50/4.50*	4.12/4.12*	4.72/4.09*	4.48/4.05*	3.91/3.88*	4.20/3.61*	4.20/3.48*
4.68/4.68*	4.69/5.03*	5.39/5.03*	4.94/4.99*	4.37/4.77*	4.90/5.09*	4.80/4.80*
7.78	7.38	7.25	6.82	6.43	7.18	7.17
6.39 x 1	4.39 x 2	6.39 x 2	6.39 x 2	6.39 x 2	6.76 x 2	7.81 x 2
DS-GB066FAV* x 1	DS-GA046FAV* x 2	DS-GB066FAV* x 2	DS-GB066FAV* x 2	DS-GB066FAV* x 2	DS-GB070FAV* x 2	DS4GJ5080FV* x 2
PVE	PVE	PVE	PVE	PVE	PVE	PVE
1,100 x 1	900 x 2	1,100 x 2	1,100 x 2	1,100 x 2	1,100 x 2	1,400 x 2
Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Top	Top	Top	Top	Top	Top	Top
2	2	2	2	2	2	2
255	255	290	290	290	340	340
4,250	4,250	4,833	4,833	4,833	5,667	5,667
8.00	8.00	8.00	8.00	8.00	8.00	8.00
78.45	78.45	78.45	78.45	78.45	78.45	78.45
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2
12.70	12.70	15.88	15.88	15.88	15.88	19.05
1/2	1/2	5/8	5/8	5/8	5/8	3/4
28.58	28.58	28.58	28.58	28.58	34.92	34.92
11/8	11/8	11/8	11/8	11/8	13/8	13/8
22.22	22.22	22.22	28.58	28.58	34.92	28.58
7/8	7/8	7/8	11/8	11/8	13/8	11/8
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
40	40	40	40	40	40	40
0.75	0.75	0.75	0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2
R410A(Fluorinated greenhouse gas, GWP=2,088)						
9.4	9.4	8.4	11.0	11.0	14.0	14.0
19.6	19.6	17.5	23.0	23.0	29.2	29.2
61	62	63	64	65	69	69
63	66	67	67	67	71	71
81	82	85	86	88	90	90
254.0	285.0	302.0	314.0	314.0	350.0	358.0
1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,795 x 765	1,295 x 1,795 x 765
-15~48	-15~48	-15~48	-15~48	-15~48	-15~48	-15~48
-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24

Dimensional drawings

DVM S High EER Heat Recovery (3-Pipe)

AM080/100/120JXVHGR



NO	Name	Description
1	Low Pressure Gas Ref. pipe	See note 4
2	High Pressure Gas Ref. pipe	See note 4
3	Liquid Ref. pipe	See note 4
4	Power wiring conduits	ø44
5	Communication wiring conduits	ø34
6	Power wiring conduits	ø44
7	Communication wiring conduits	ø22
8	Knock-out hole for Ref. piping (bottom)	
9	Knock-out hole for Ref. piping (front)	

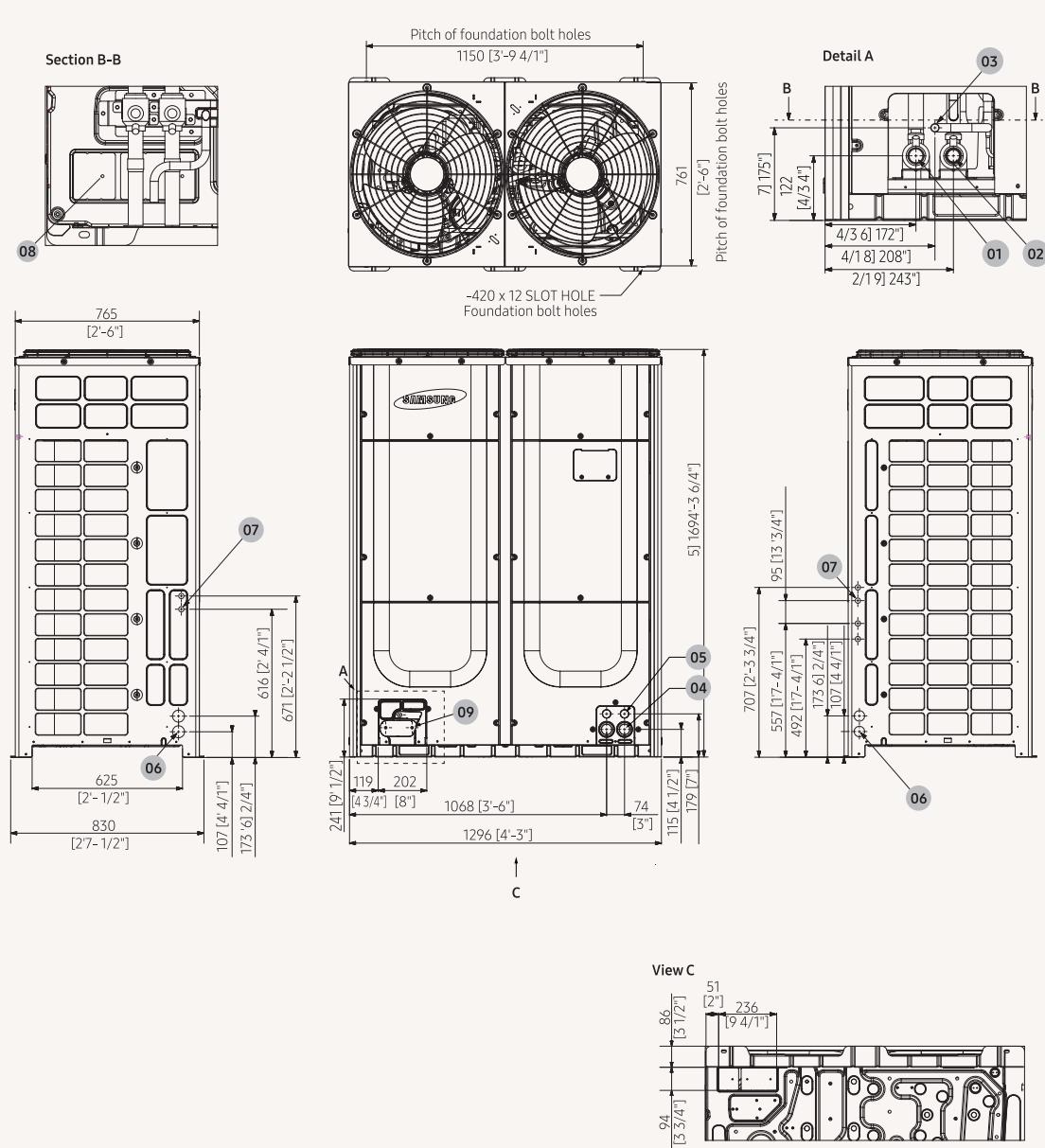
1. Detail A and SECTION B-B indicate the dimensions after fixing the attached piping.

2. Item 4-9: Knock-out hole.

3. View C indicates the dimensions of the knock-out hole (bottom).

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

AM140/160/180/200/220JXVHGR



NO	Name	Description
1	Low Pressure Gas Ref. pipe	See note 4
2	High Pressure Gas Ref. pipe	See note 4
3	Liquid Ref. pipe	See note 4
4	Power wiring conduits	ø44
5	Communication wiring conduits	ø34
6	Power wiring conduits	ø44
7	Communication wiring conduits	ø22
8	Knock-out hole for Ref. piping (bottom)	
9	Knock-out hole for Ref. piping (front)	

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

2. Item 4-9: Knock-out hole.

3. View C indicates the dimensions of the knock-out hole (bottom).

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

Specifications

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.



Model				AM080MXWANR/EU	AM100MXWANR/EU	AM120MXWANR/EU
Power Supply			Φ, #, V, Hz	3Φ, 4, 380~415 V, 50/60 Hz	3Φ, 4, 380~415 V, 50/60 Hz	3Φ, 4, 380~415 V, 50/60 Hz
Performance	hp		hp	8	10	12
	Capacity (Nominal)	Cooling	kW	22.4	28.0	33.6
		Heating	kW	25.2	31.5	37.8
	Maximum number of connectable indoor units		ea	14	18	22
	Total capacity of the connected indoor units	Min.	kW	11.2	14.0	16.8
		Max.	kW	29.1	36.4	43.7
Power	Power Input (Nominal)	Cooling	kW	3.67	4.87	6.00
		Heating		3.97	5.04	6.25
	Current Input (Nominal)	Cooling	A	5.9	8.1	9.6
		Heating		6.4	8.4	10.0
	Current	Minimum SSC value	MVA	3.9	3.9	4.8
		MCA	A	16.1	16.1	20.0
		MFA	A	20	20	25
COP ¹	Nominal Cooling		W/W	6.10	5.75	5.60
	Nominal Heating		W/W	6.35	6.25	6.05
Compressor	Type		-	Inverter Scroll	Inverter Scroll	Inverter Scroll
	Output		kW x n	4.96 x 1	4.96 x 1	6.13 x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial Charge	cc	3,900	3,900	3,900
Condenser	Type	Type	Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger
	Pipe Size	ø, inch	PT11/4	PT11/4	PT11/4	PT11/4
	Pressure Drop	kPa	22	30	43	43
	Water Flow Rate	l/min	80	96	114	114
	Max. Pressure	MPa	1.96	1.96	1.96	1.96
	Liquid Pipe	ø, mm	9.52	9.52	12.70	12.70
		ø, inch	3/8	3/8	1/2	1/2
	Gas Pipe	ø, mm	19.05	22.22	28.58	28.58
		ø, inch	3/4	7/8	11/8	11/8
Piping Connections	Discharge Gas Pipe		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)
		After branch	Max.	m	90	90
	Total piping length	System	Actual	m	500	500
	Level difference	Outdoor-Indoor	Outdoor unit in highest position	m	50	50
		Indoor unit in highest position	m	40	40	40
		Indoor-Indoor	Max.	m	50	50
Wiring Connections	Communication	Minimum	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type			R410A(Fluorinated greenhouse gas, GWP=2,088)		
	Factory Charging		kg	5.5	5.8	6.0
			tCO ₂ e	11.48	12.11	12.53
Sound ²	Sound Pressure	Cooling		48	48	50
		Heating	dB(A)	51	51	52
	Sound Power			70	70	70
External Dimensions	Net Weight		kg	160.0	160.0	160.0
	Net Dimensions (W x H x D)		mm	770 x 1,000 x 545	770 x 1,000 x 545	770 x 1,000 x 545
Operating Temperature Range	Cooling		°C	10.0~45.0	10.0~45.0	10.0~45.0
	Heating		°C	10.0~45.0	10.0~45.0	10.0~45.0



AM200MXWANR/EU	AM300KXWANR/EU
3Φ, 4, 380–415 V, 50/60 Hz	3Φ, 4, 380–415 V, 50/60 Hz
20	30
56.0	84
63	94.5
36	55
28.0	42.0
72.8	109.2
10.77	16.80
10.86	16.88
17.3	26.4
17.4	26.5
7.7	-
32.2	48.0
40	63
5.20	5.00
5.80	5.60
Inverter Scroll	SSC Scroll x 2
4.96 x 2	6.75 x 2
PVE	PVE
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 greenhouse gas, GWP=2,088)	
9.8	11.0
20.46	22.96
51	55
52	58
73	75
240.0	280.0
1,100 x 1,000 x 545	1,100 x 1,000 x 545
10.0–45.0	10.0–45.0
10.0–45.0	10.0–45.0

¹Performances are based on the following test conditions:

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

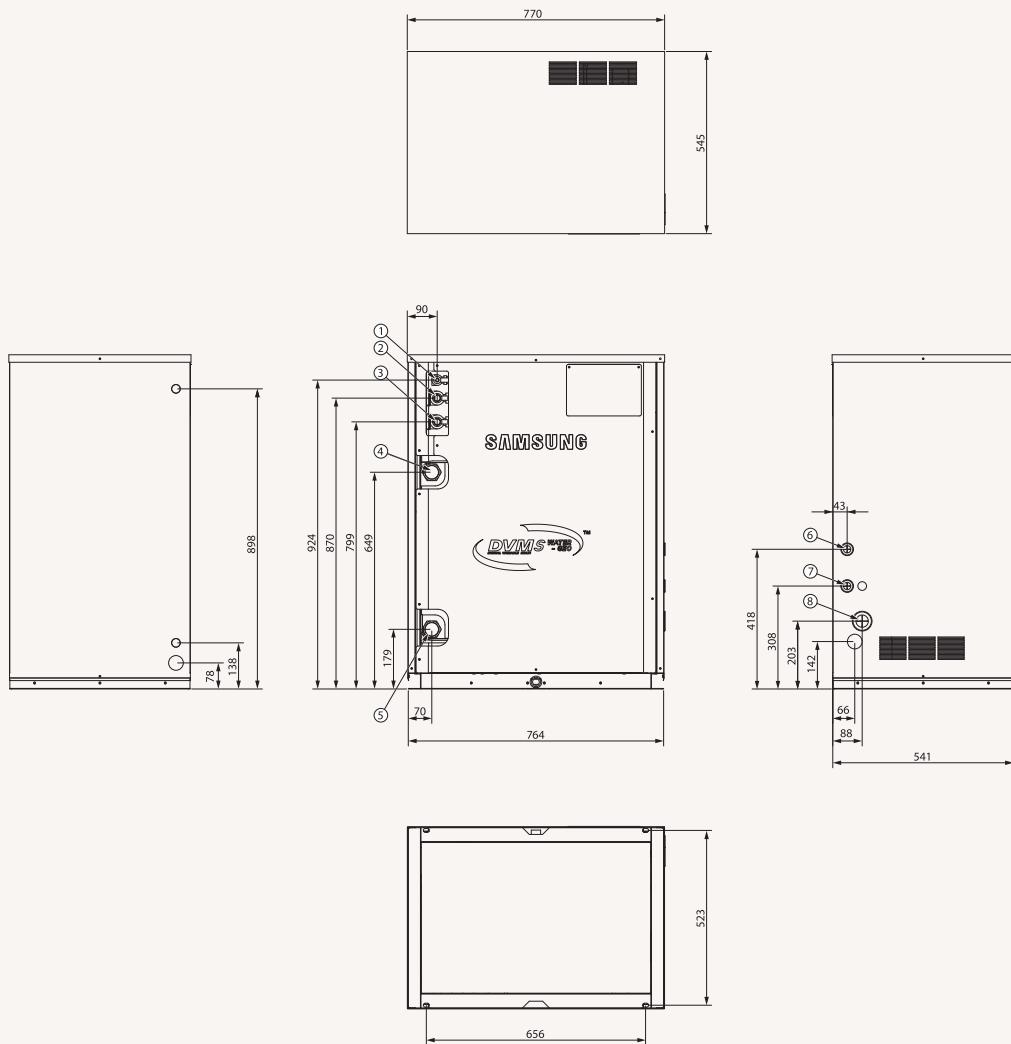
²Sound pressure level is obtained in an anechoic room.
Sound pressure level is a relative value, depending on
the distance and acoustic environment. Sound
pressure level may differ according to operating
conditions. Sound power level is an absolute value
that a sound source generates.

Dimensional Drawing

DVM S Water

VRF

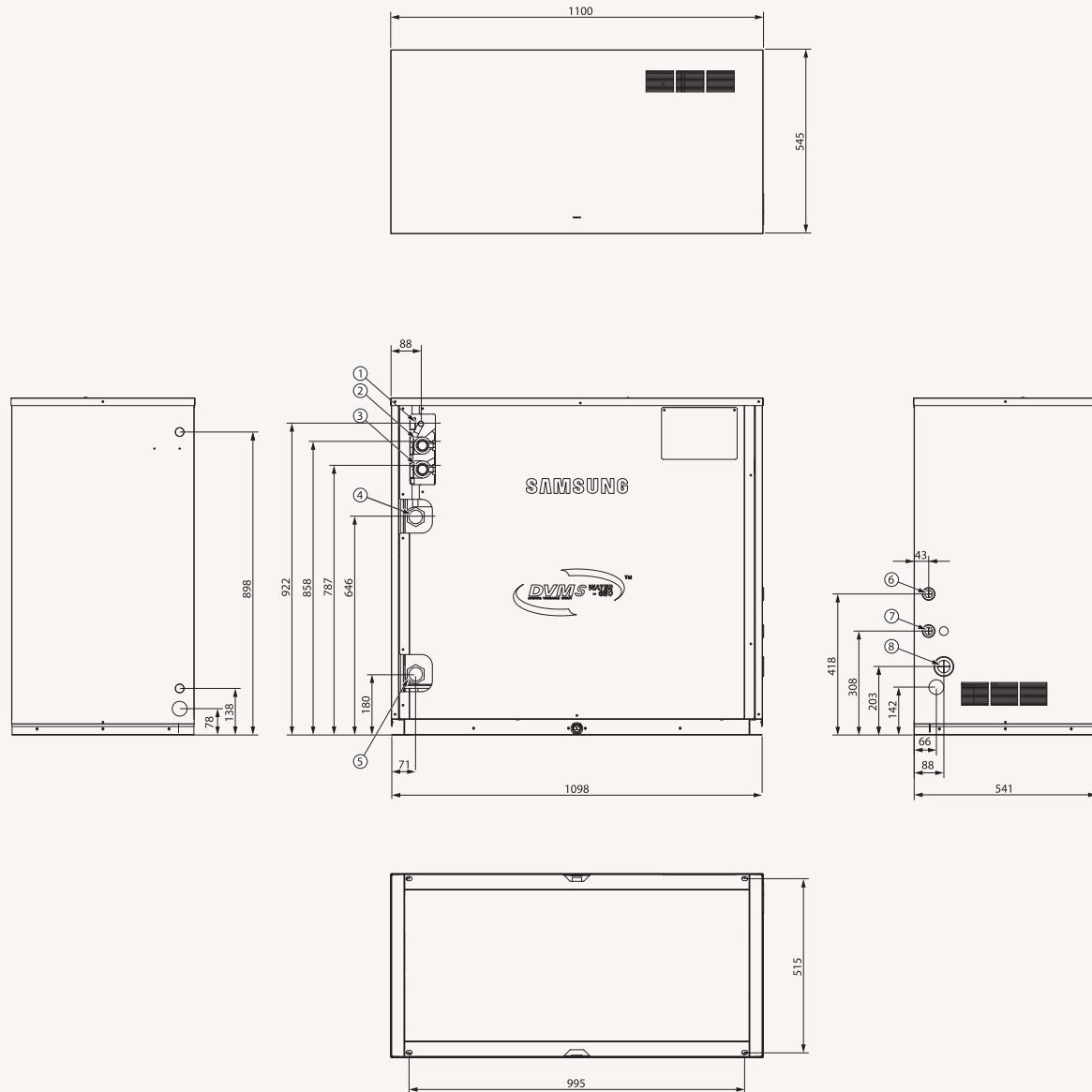
AM080/100/120MXWANR/EU



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

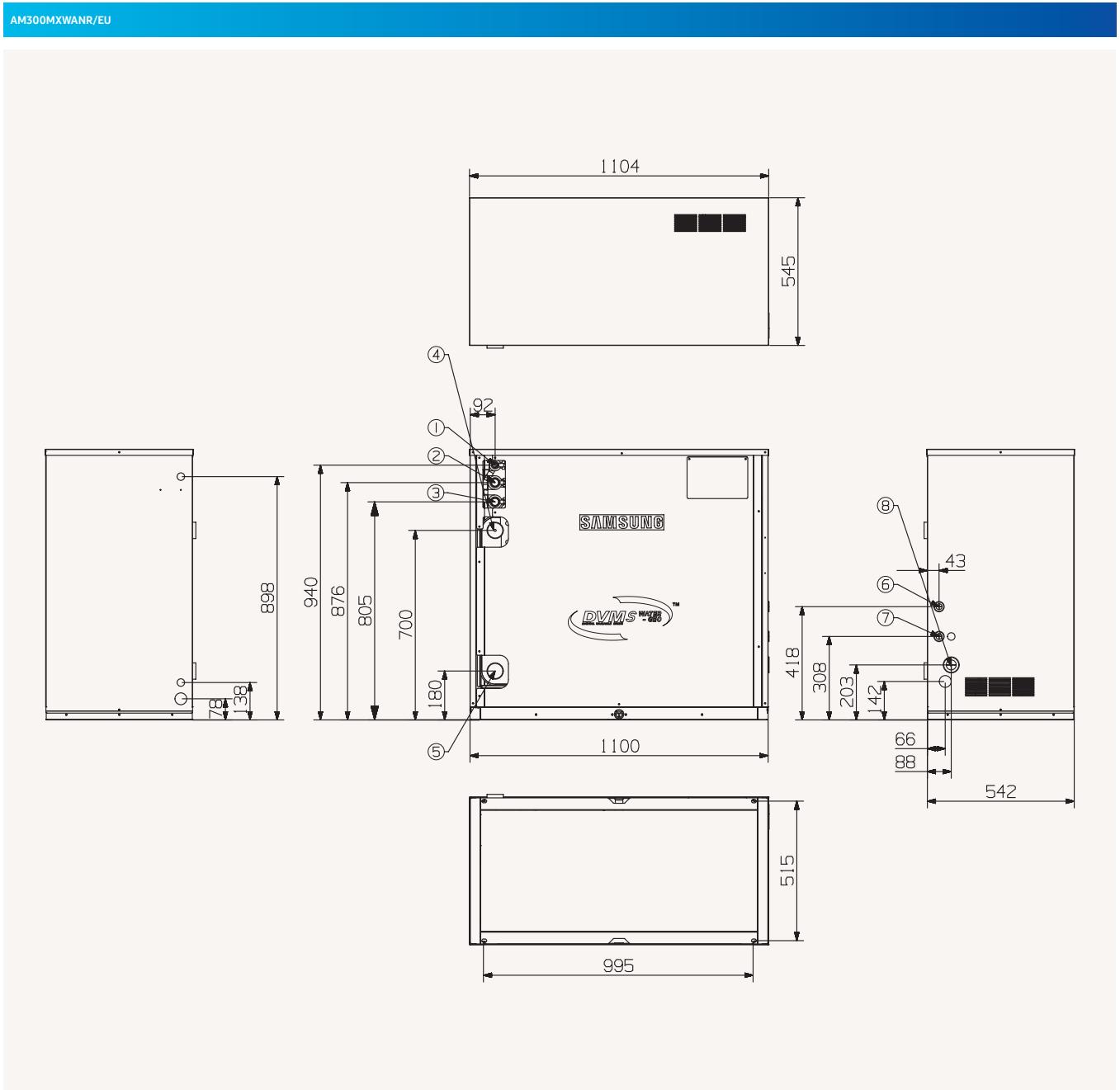
VRF



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	

Dimensional Drawing

DVM S Water



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



Specifications

360 Cassette

- 360 degree air supply.
- Bladeless discharge. Booster fans can be individually controlled, allowing for completely horizontal flow discharge. Coanda effect is created even without ceiling.

- Built-in condensation drain pump.
- Predisposition of the air inlet to let fresh air in.
- Compatible with Wi-Fi Kit controller.
- Circular or square cassette panel.
- Motion Detector Sensor included.



Model		AM045KN4DEH/EU		AM056KN4DEH/EU		AM071KN4DEH/EU	
Power Supply		Φ , #, V, Hz		1Φ, 2, 220–240 V, 50 Hz		1Φ, 2, 220–240 V, 50 Hz	
Performance	Capacity (Nominal)	Cooling	kW	4.5	5.6	7.1	
		Heating		5.0	6.3	8.0	
Power	Power Input (Nominal)	Cooling	W	26	30	34	
		Heating		26	30	34	
	Current Input (Nominal)	Cooling	A	0.18	0.21	0.25	
		Heating		0.18	0.21	0.25	
Fan	Motor	Type	-	Turbo Fan	Turbo Fan	Turbo Fan	
		Output x n	w	65 x 1	65 x 1	65 x 1	
	Airflow Rate	H/M/L (UL)	m³/min	14.50/13.50/12.50	16.00/14.50/13.50	18.00/16.00/14.00	
			l/s	241.67/225.00/208.33	266.67/241.67/225.00	300.00/266.67/233.33	
Piping Connections	Liquid Pipe	ø, mm	6.35	6.35	9.52		
		ø, inch	1/4	1/4	3/8		
	Gas Pipe	ø, mm	12.70	12.70	15.88		
		ø, inch	1/2	1/2	5/8		
	Drain Pipe	ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)		
Field Wiring	Power Source Wire	mm²	1.5–2.5	1.5–2.5	1.5–2.5		
	Transmission Cable	mm²	0.75–1.50	0.75–1.50	0.75–1.50	0.75–1.50	
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)				
	Control Method	-	EEV INCLUDED				EEV INCLUDED
Sound ²	Pressure	(H/M/L)	dB(A)	33/31/29	34/32/29	36/33/30	
	Power	Cooling		50	51	53	
Dimension	Net Weight	kg	21.0	21.0	21.0		
	Net Dimensions (W x H x D)	mm	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947		
Panel	Model Name	-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN		

Accessories

Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit
AR-KH03E	MWR-SHOON	MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN
External Room Sensor	Panel (Mandatory)	Panel (Mandatory)	Panel (Mandatory)	Panel (Mandatory)	
MRW-TA	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN	

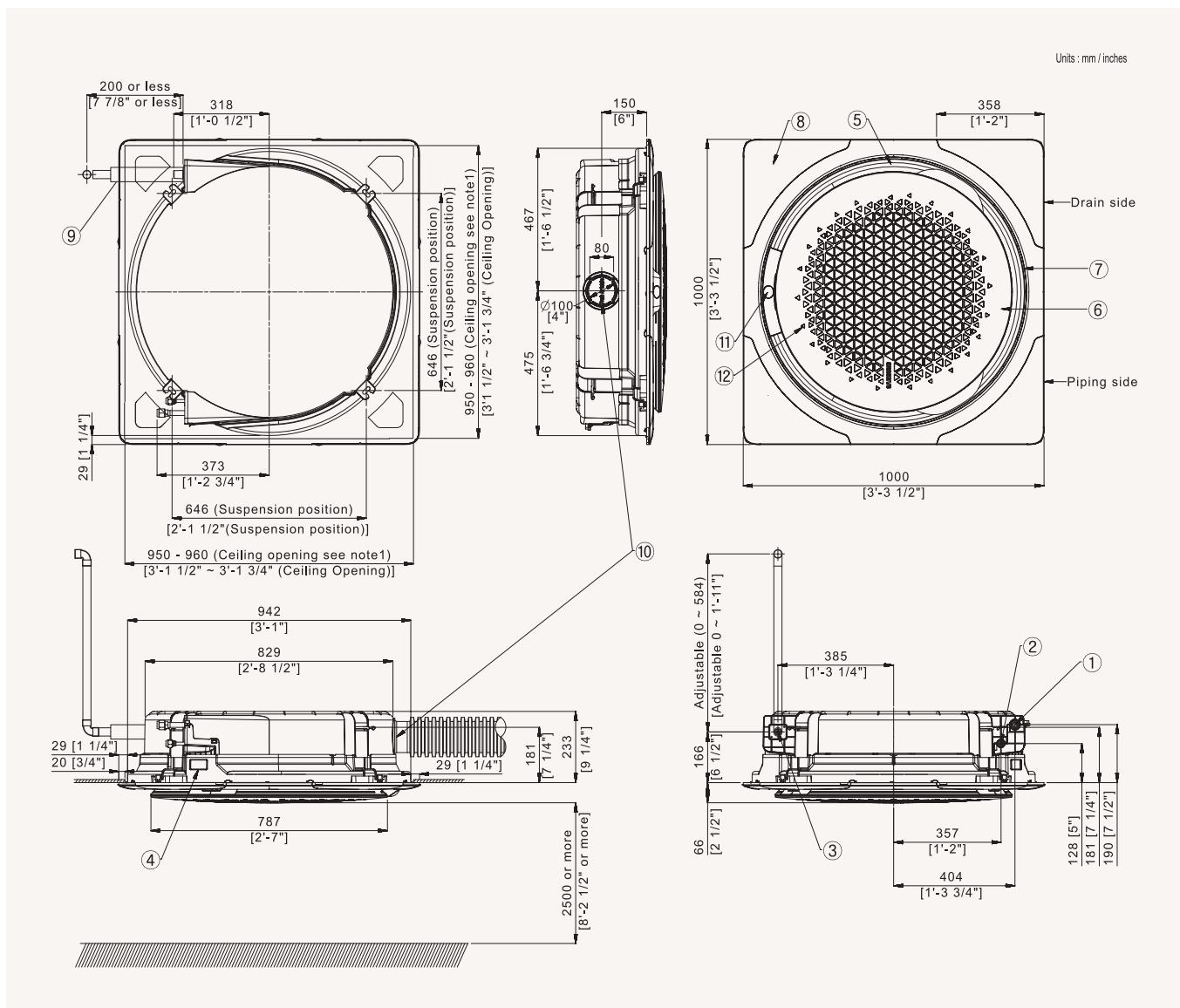


AM090KN4DEH/EU	AM112KN4DEH/EU	AM128KN4DEH/EU	AM140KN4DEH/EU
1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
9.0	11.2	12.8	14.0
10.0	12.5	13.8	16.0
55	53	77	91
55	53	77	91
0.42	0.41	0.62	0.75
0.42	0.41	0.62	0.75
Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
65 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)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
1.5–2.5	1.5–2.5	1.5–2.5	1.5–2.5
0.75–1.50	0.75–1.50	0.75–1.50	0.75–1.50
R410A(Fluorinated greenhouse 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

Dimensional drawings

360 Cassette (square)

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



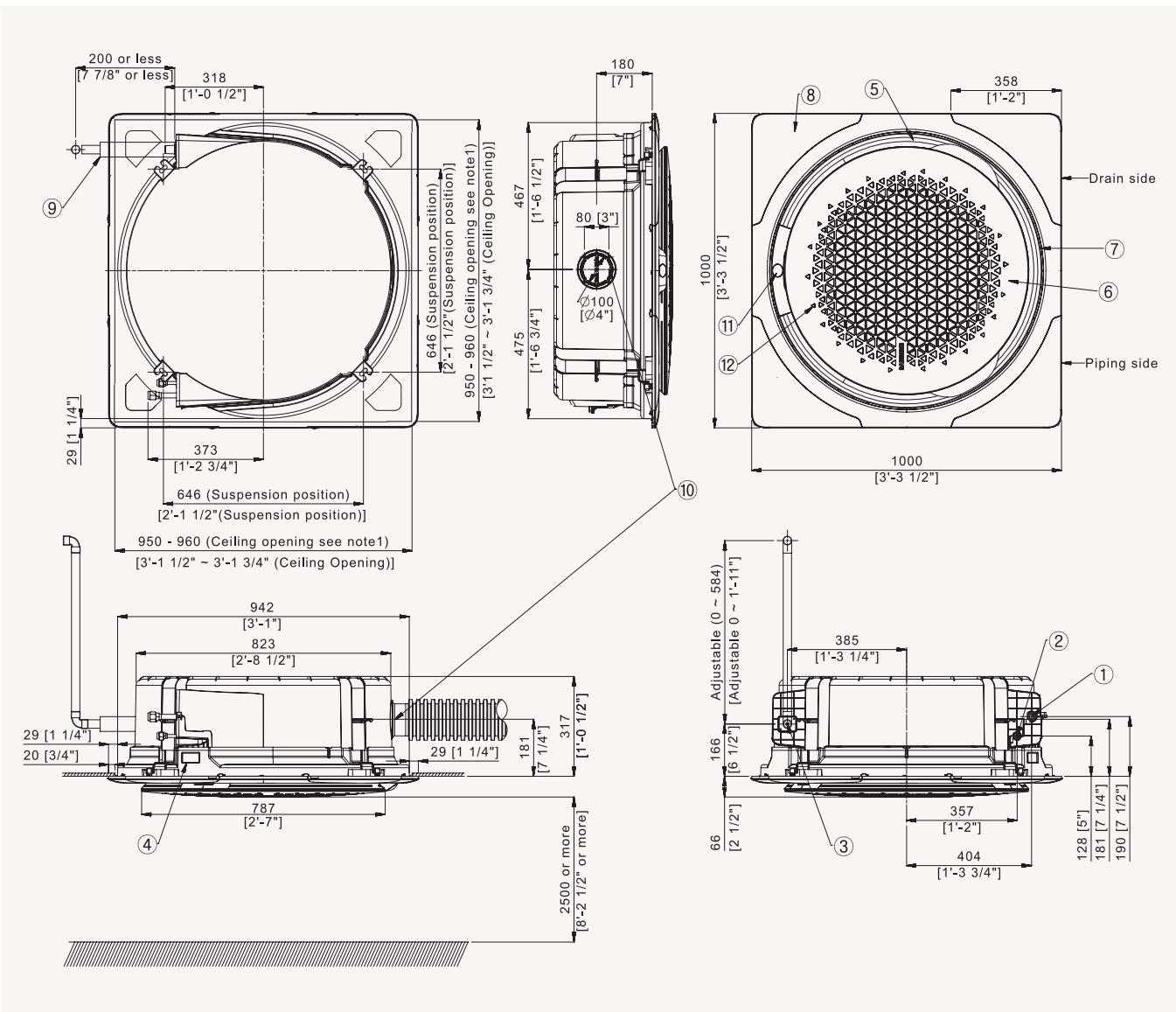
NO	Name
1	Refrigerant liquid pipe
2	Refrigerant gas pipe
3	Condensate drain
4	Power supply/communication wiring conduits
5	Air discharge opening
6	Air suction grille
7	Suction rim for booster fan
8	Corner decoration cover
9	Drain hose
10	Fresh air intake knock-out hole
11	Display window
12	Infrared receiver

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

AM112KN4DEH/EU, AM128KN4DEH/EU AM140KN4DEH/EU



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

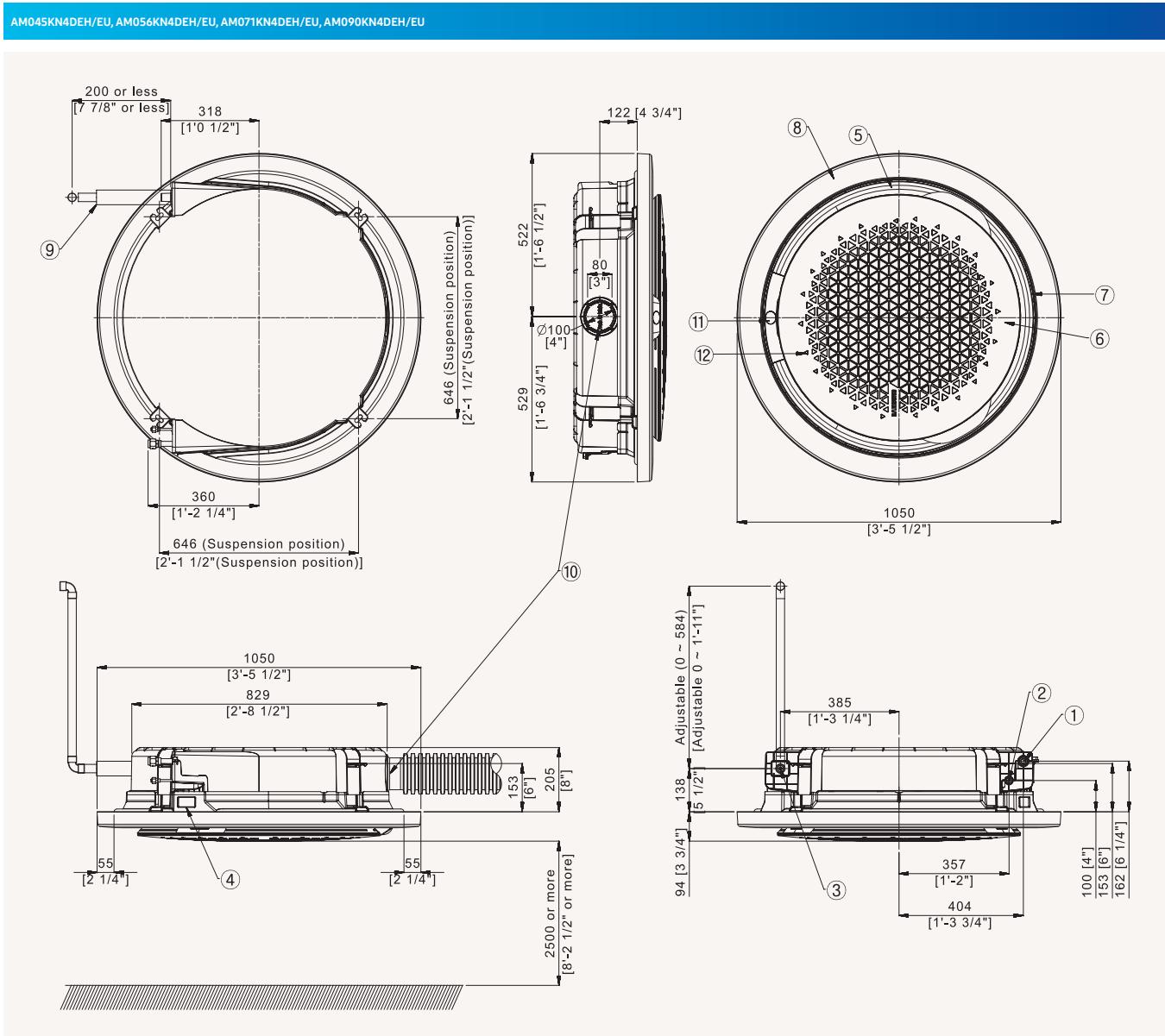
1. Make sure the spacing between the ceiling and the cassette is no more than 29 mm [1 1/4"]. Max ceiling opening: 960 mm [3'1 3/4"]

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

Dimensional drawings

360 Cassette (circular)

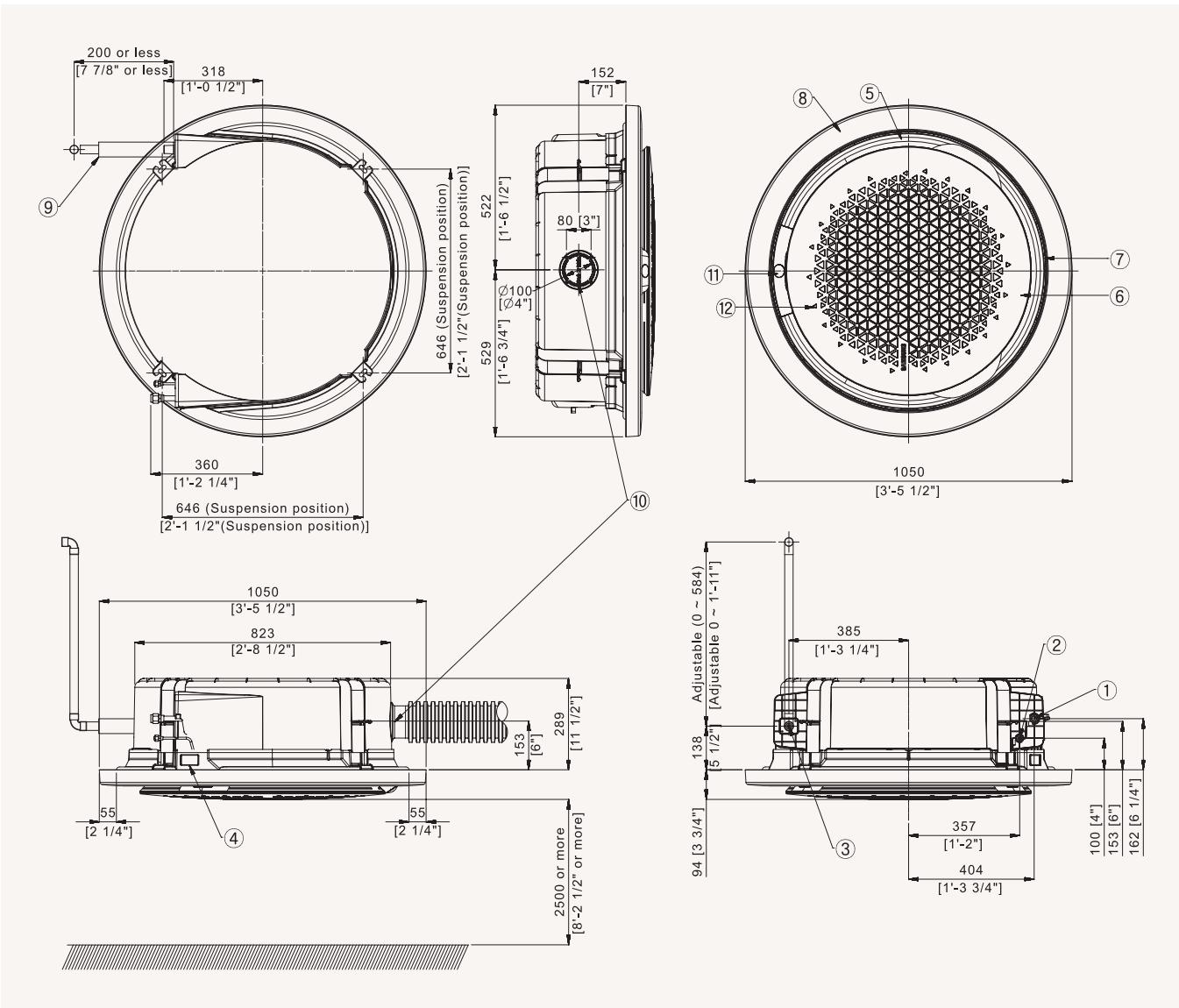


NO	Name
1	Refrigerant liquid pipe
2	Refrigerant gas pipe
3	Condensate drain
4	Power supply/communication wiring conduits
5	Air discharge opening
6	Air suction grille
7	Suction rim for booster fan
8	Corner decoration cover
9	Drain hose
10	Fresh air intake knock-out hole
11	Display window
12	Infrared receiver

Category	Inspection hole	
	Recessed installation	Exposed installation
Integrated		
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.

AM112KN4DEH/EU, AM128KN4DEH/EU, AM140KN4DEH/EU



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

Category	Inspection hole	
	Recessed 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.

Specifications

Wind-Free™ 4-Way Cassette ⚡

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

- Compatible with Wi-Fi Kit controller.
- Motion Detect Sensor (optional).



Model			AM015NNNDEH/EU	AM022NNNDEH/EU	AM028NNNDEH/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
Performance	Capacity	Cooling	kW	1.5	2.2
		Heating		1.7	2.5
Power	Power Input	Cooling	W	18	18
		Heating		18	18
	Current Input	Cooling	A	0.17	0.17
		Heating		0.17	0.17
	Current	MCA	A	0.2	0.2
		MFA		15	15
Fan	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
	Number of Fans	-	1	1	1
	Airflow Rate	H/M/L	m³/min	8.2/7.0/6.3	9.0/7.7/6.5
			l/s	137/117/105	150/128/108
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
		Remark	-	F1, F2	F1, F2
Refrigerant	Type	-		R410A(Fluorinated greenhouse gas, GWP=2,088)	
	Electronic Expansion Valve	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure	H/M/L	dB(A)	30.0/28.0/23.0	32.0/29.0/25.0
	Sound Power	Cooling		46	47
Dimensions	Net Weight	kg	12.0	12.0	12.0
	Net Dimensions (W x H x D)	mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
Panel	Model Name	-	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN
Drain Pump	Drain Pump	-	INCLUDED	INCLUDED	INCLUDED
	Max. Lifting Height/Displacement	mm / litres/h	750/24	750/24	750/24

Accessories



Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	Panel (Required)
AR-EH03E	MWR-SHOON	MWR-SH11N	MWR-WG00*N	MWR-WE13N	MIM-H04EN	PC4SUFMAN



AM036NNNDEH/EU	AM045NNNDEH/EU	AM056NNNDEH/EU	AM060NNNDEH/EU
1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 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)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
R410A(Fluorinated greenhouse gas, GWP=2,088)			
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
34.0/30.0/26.0	36.0/34.0/32.0	39.0/36.0/33.0	40.0/38.0/35.0
51	53	56	57
12.0	12.0	12.0	12.0
575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
PC4SUFMAN	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN
INCLUDED	INCLUDED	INCLUDED	INCLUDED
750/24	750/24	750/24	750/24

Specifications

Wind-Free™ 4-Way Cassette ⚡

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

- Compatible with Wi-Fi Kit controller.
- Motion Detect Sensor (optional).



Model		AM045NN4DEH/EU		AM056NN4DEH/EU		AM071NN4DEH/EU	
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz		1Φ, 2, 220–240 V, 50 Hz		1Φ, 2, 220–240 V, 50 Hz
Mode		-	HP/HR		HP/HR		HP/HR
Performance	Capacity	Cooling	kW	4.5	5.6	7.1	
		Heating		5.0	6.3	8.0	
Power	Power Input	Cooling	W	32	32	45	
		Heating		32	32	45	
	Current Input	Cooling	A	0.22	0.22	0.31	
		Heating		0.22	0.22	0.31	
	Current	MCA	A	0.3	0.3	0.4	
		MFA		15	15	15	
Fan	Type	-	Turbo Fan		Turbo Fan		Turbo Fan
	Number of Fans	-	1		1		1
	Airflow Rate H/M/L	m³/min	14.5/13.5/12.5		15.0/14.0/13.0		17.0/15.5/14.5
		l/s	242/225/208		250/233/217		283/258/242
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		9.52
		ø, inch	1/4		1/4		3/8
	Gas Pipe	ø, mm	12.7		12.7		15.88
		ø, inch	1/2		1/2		5/8
	Drain Pipe	ø, mm	VP25 (OD 32, ID 25)		VP25 (OD 32, ID 25)		VP25 (OD 32, ID 25)
Wiring Connections	Communication	Minimum	mm²	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type	-		R410A(Fluorinated greenhouse gas, GWP=2,088)			
	Electronic Expansion Valve	-		EEV INCLUDED			EEV INCLUDED
Sound ²	Sound Pressure H/M/L	dB(A)		33.0/32.0/30.0	33.0/32.0/30.0	35.0/34.0/33.0	
	Sound Power	Cooling		49	50	54	
Dimensions	Net Weight	kg		15.5	15.5	15.5	
	Net Dimensions (W x H x 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	

Accessories



Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	Panel (Mandatory)
AR-EH03E	MWR-SHOON	MWR-SH11N	MWR-WG00*N	MWR-WE13N	MIM-H04EN	MRW-TA	PC4NUFMAN



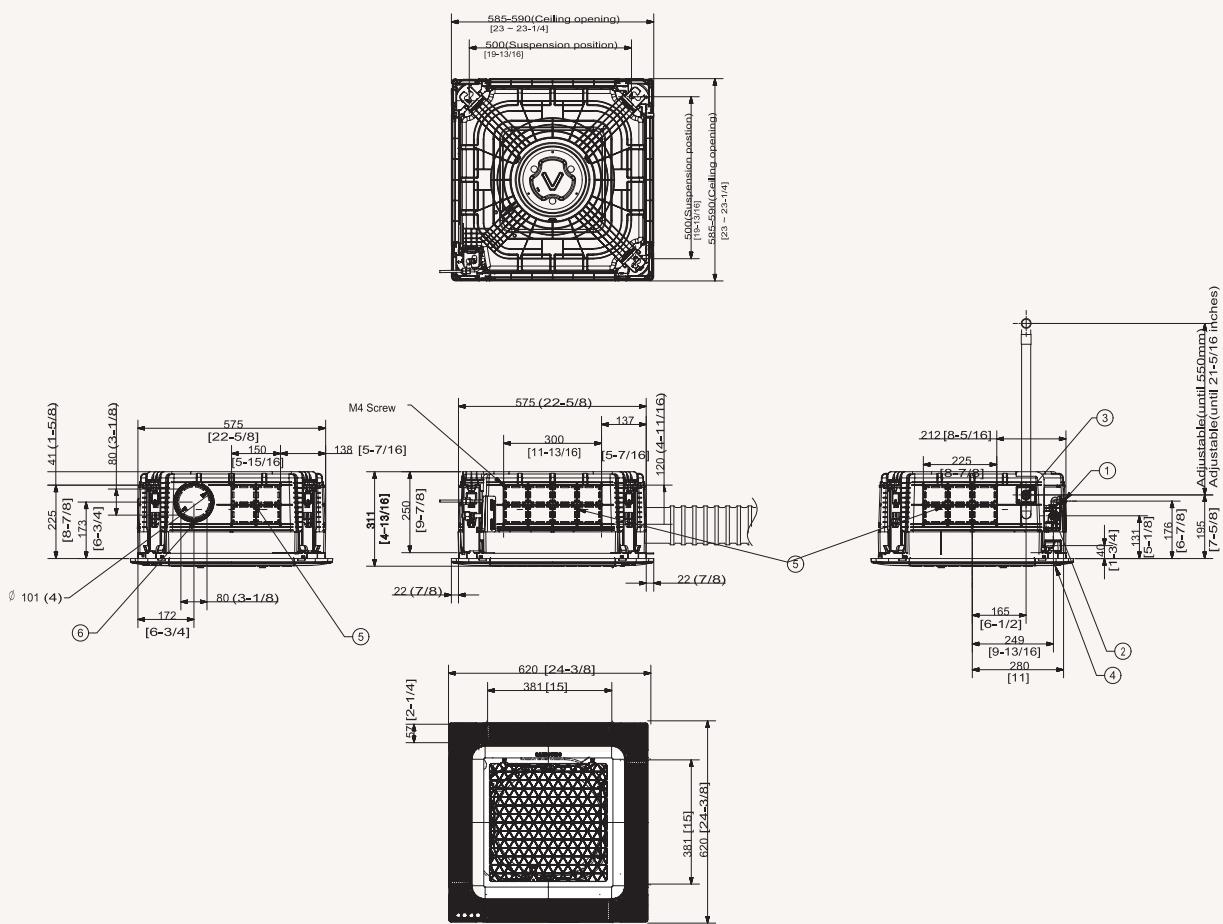
AM090NN4DEH/EU	AM112NN4DEH/EU	AM128NN4DEH/EU	AM140NN4DEH/EU
1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
HP/HR	HP/HR	HP/HR	HP/HR
9.0	11.2	12.8	14.0
10.0	12.5	13.8	16.0
62	78	73	89
62	78	73	89
0.43	0.55	0.51	0.62
0.43	0.55	0.51	0.62
0.6	0.9	0.8	0.9
15	15	15	15
Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
1	1	1	1
19.5/18.0/16.5	26.0/24.0/22.0	28.0/26.0/23.0	30.0/28.0/26.0
325/300/275	433/400/367	467/433/383	500/467/433
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
65 x1	65 x1	97 x1	97 x1
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)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
R410A(Fluorinated greenhouse gas, GWP=2,088)			
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
39.0/36.0/33.0	40.0/38.0/35.0	42.0/40.0/35.0	44.0/41.0/35.0
57	57	58	60
15.5	17.0	19.0	19.0
840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
INCLUDED	INCLUDED	INCLUDED	INCLUDED
750/24	750/24	750/24	750/24

Technical Drawings

Wind-Free™ 4-Way Cassette

VRF

AM***NNNDEH/EU



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

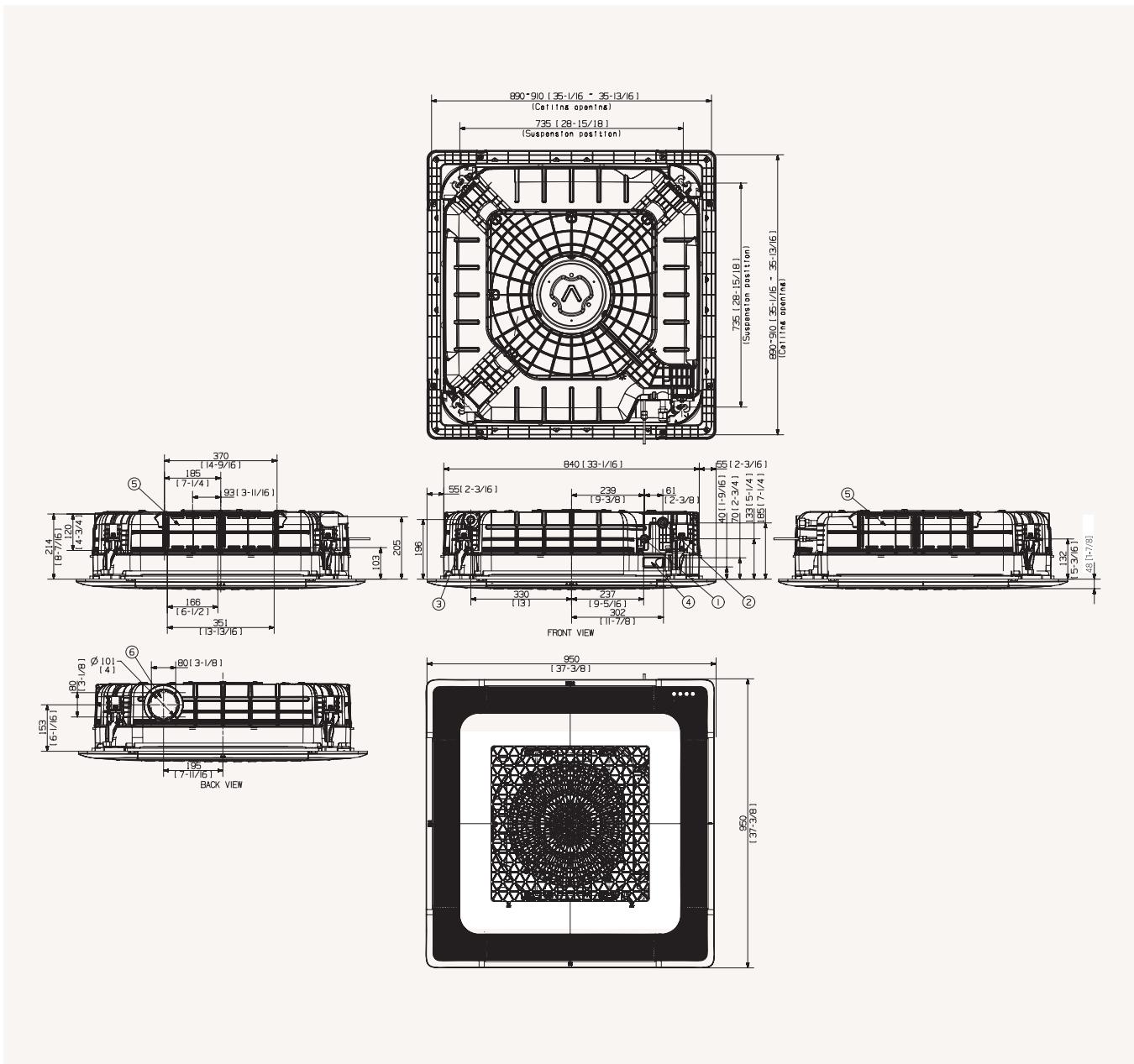
Note: As for suspension bolt, please use M8~M10. (Procured at local site)



Technical Drawings

Wind-Free™ 4-Way Cassette

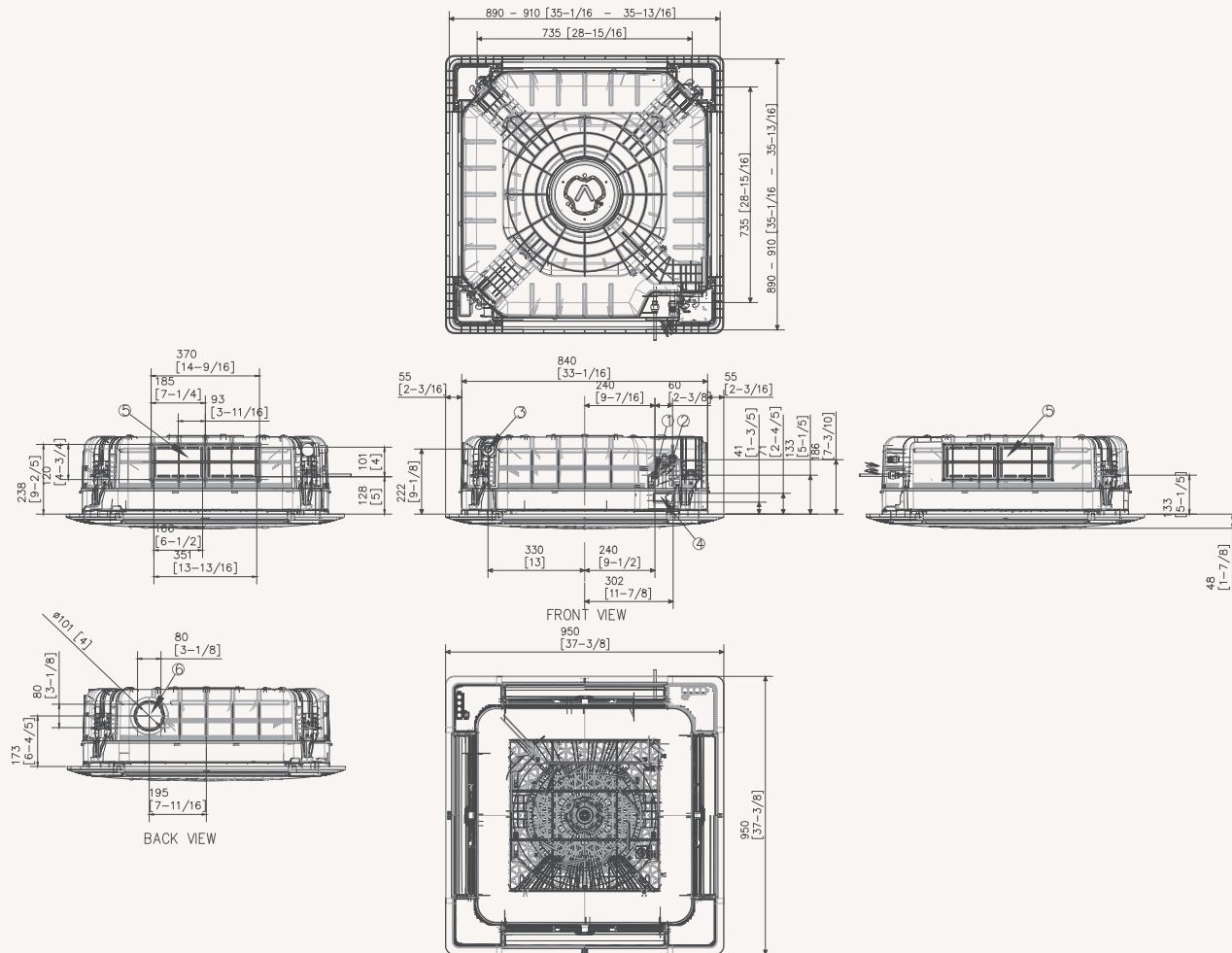
AM045/056/071/090NN4DEH/EU



No	Name	Description			
		4.5 kW	5.6 kW	7.1 kW	9.0 kW
1	Liquid pipe connection	ø6.35 (1/4)		ø9.52 (3/8)	
2	Gas pipe connection		ø12.7 (1/2)		ø15.88 (5/8)
3	Drain pipe connection			VP25 (OD 32, ID 25)	
4	Power supply/communication wiring conduits				
5	Fresh air intake knock-out hole		ø10 [4], use M4 Screw		

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

AM112NN4DEH/EU



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

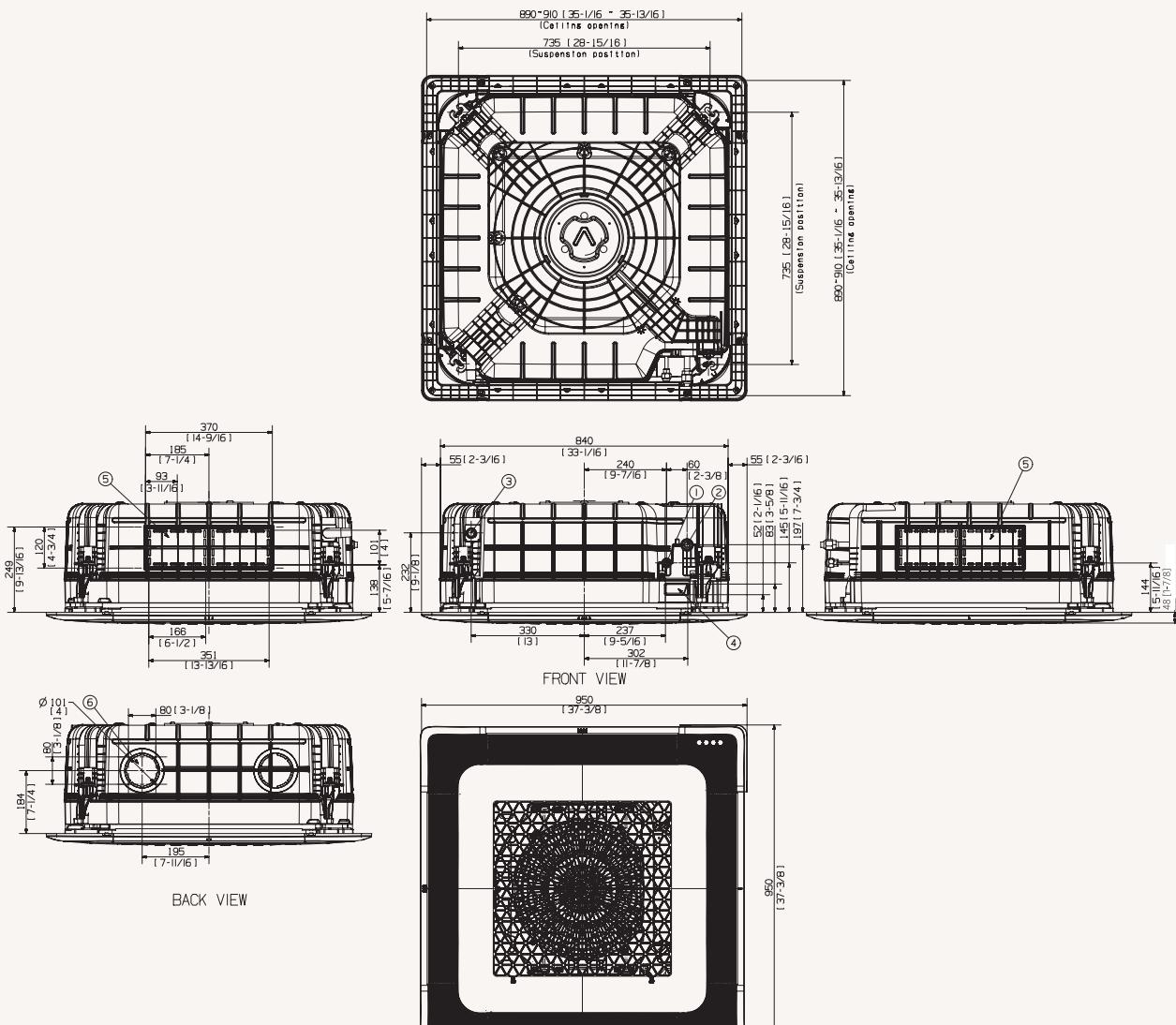
Note: As for suspension bolt, please use M8~M10. (Procured at local site)

Technical Drawings

Wind-Free™ 4-Way Cassette

VRF

AM128/140NN4DEH/EU



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

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



Specifications

Wind-Free™ 1-Way Cassette ⚡

- Fast Cooling mode and Wind-Free™ Cooling mode.
- One-way air supply by means of a 100 mm wide blade.
- Built-in condensation drain pump and humidity sensor.
- Cross-flow fan direct driven by a BLDC motor.

- Compatible with Wi-Fi Kit controller.



Model			AM017NN1PEH/EU	AM022NN1PEH/EU	AM022NN1DEH/EU
Power Supply			Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
Performance	Capacity	Cooling	kW	1.7	2.2
		Heating		1.9	2.5
Power	Power Input	Cooling	W	24	25
		Heating		24	25
	Current Input	Cooling	A	0.14	0.15
		Heating		0.14	0.15
	Current	MCA	A	0.18	0.19
		MFA		15	15
Fan	Type	-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Number of Fans	-		1	1
	Airflow Rate	H/M/L	m³/min	4.80/4.30/4.10	5.10/4.60/4.30
			l/s	80.00/71.67/68.33	85.00/76.67/71.67
Fan Motor	Model	-	BLDC Motor	BLDC Motor	AC Motor
	Output x n	W	27 x 1	27 x 1	17 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	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
		Remark	-	F1, F2	F1, F2
	Type	-		R410A(Fluorinated greenhouse gas, GWP=2,088)	
Refrigerant	Electronic Expansion Valve	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure	(H/M/L)	dB(A)	28/26/24	29/26/24
	Sound Power	Cooling		46	47
Dimension	Net Weight	kg		8.0	8.0
	Net Dimensions (W x H x D)	mm		740 x 135 x 360	740 x 135 x 360
Panel	Model Name	-	PC1MWFMAN	PC1MWFMAN	PC1NWFMAN
Drain pump		-	INCLUDED	INCLUDED	INCLUDED
	Max. Lifting Height/Displacement	mm / litres/h		750/24	750/24
					750/24

Accessories



Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	Panel	External Room Sensor
AR-EH03E	MWR-SHOON	MWR-SH11N	MWR-WG00*N	MWR-WE13N	MIM-H04EN	PC1*WFMAN	MRW-TA

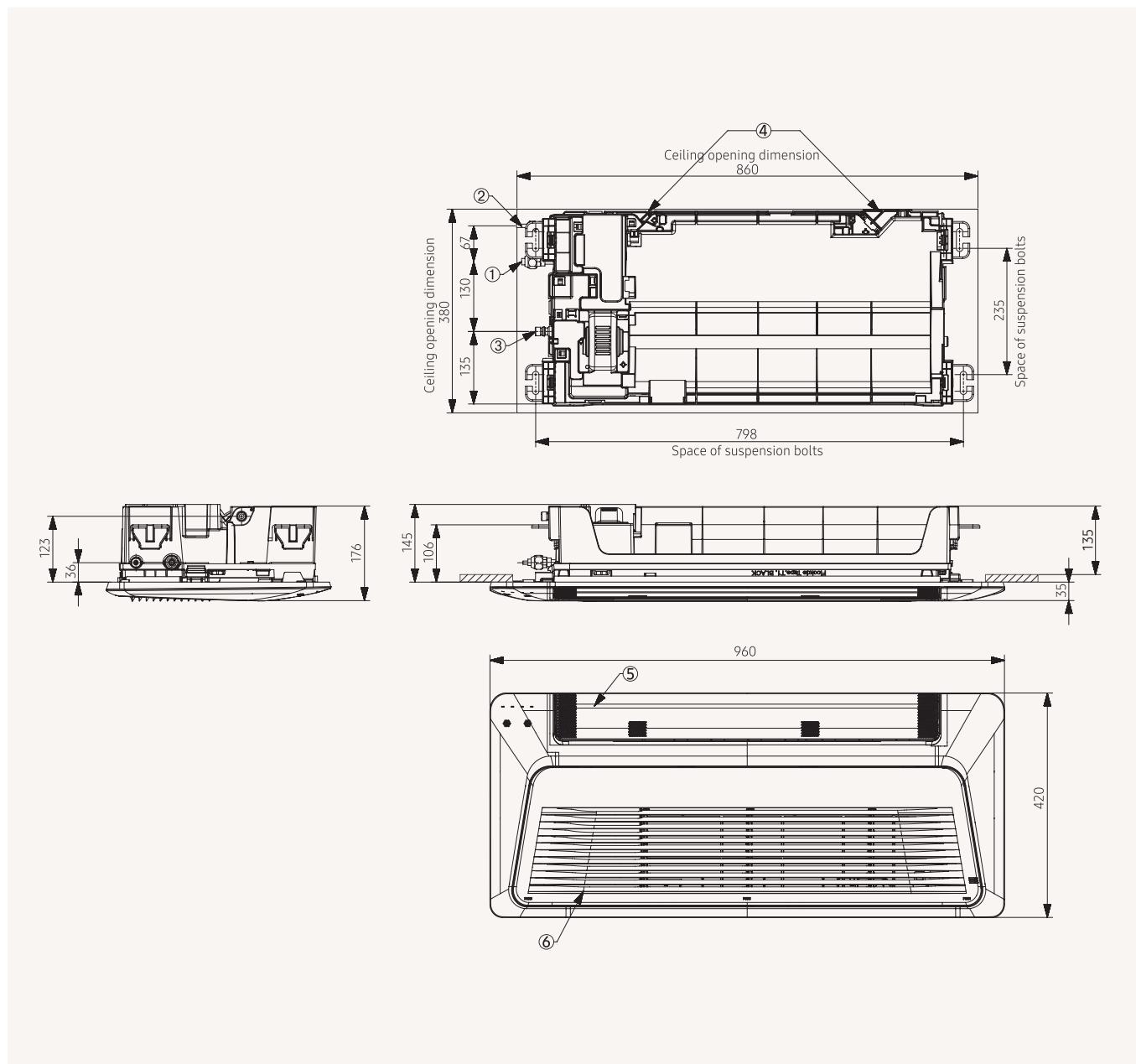


AM028NN1DEH/EU	AM036NN1DEH/EU	AM056NN1DEH/EU	AM071NN1DEH/EU
1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
2.8	3.6	5.6	7.1
3.2	4.0	6.3	8.0
45	50	55	80
45	50	55	80
0.23	0.25	0.28	0.4
0.23	0.25	0.28	0.4
0.29	0.31	0.35	0.50
15	15	15	15
Crossflow Fan	Crossflow 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
AC Motor	AC Motor	BLDC Motor	BLDC Motor
17 x 1	17 x 1	54 x 1	54 x 1
6.35	6.35	6.35	9.52
1/4	1/4	1/4	3/8
12.7	12.7	12.7	15.88
1/2	1/2	1/2	5/8
VP20 (OD 25, ID 20)	VP20 (OD 25, ID 20)	VP20 (OD 25, ID 20)	VP20 (OD 25, ID 20)
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
R410A(Fluorinated greenhouse 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

Dimensional drawings

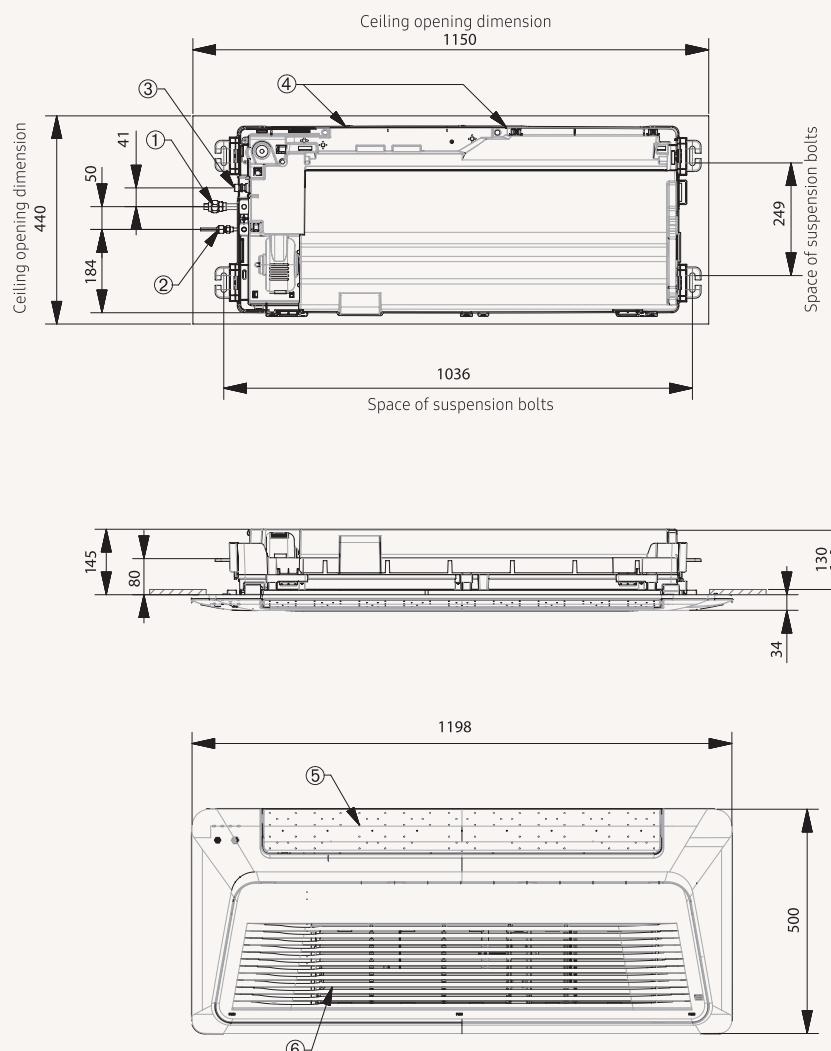
Wind-Free™ 1-Way Cassette

AM017/022NN1PEH/**AM017/022NN1PEH/**



NO	Name	Description
1	Liquid pipe connection	ø9.52 (3/8)
2	Gas pipe connection	ø6.35 (1/4)
3	Drain pipe connection	VP20 (OD 26, ID 20)
4	Power supply/communication wiring conduits	
5	Fresh air intake knock-out hole	

AM022/028/036NN1DEH/**



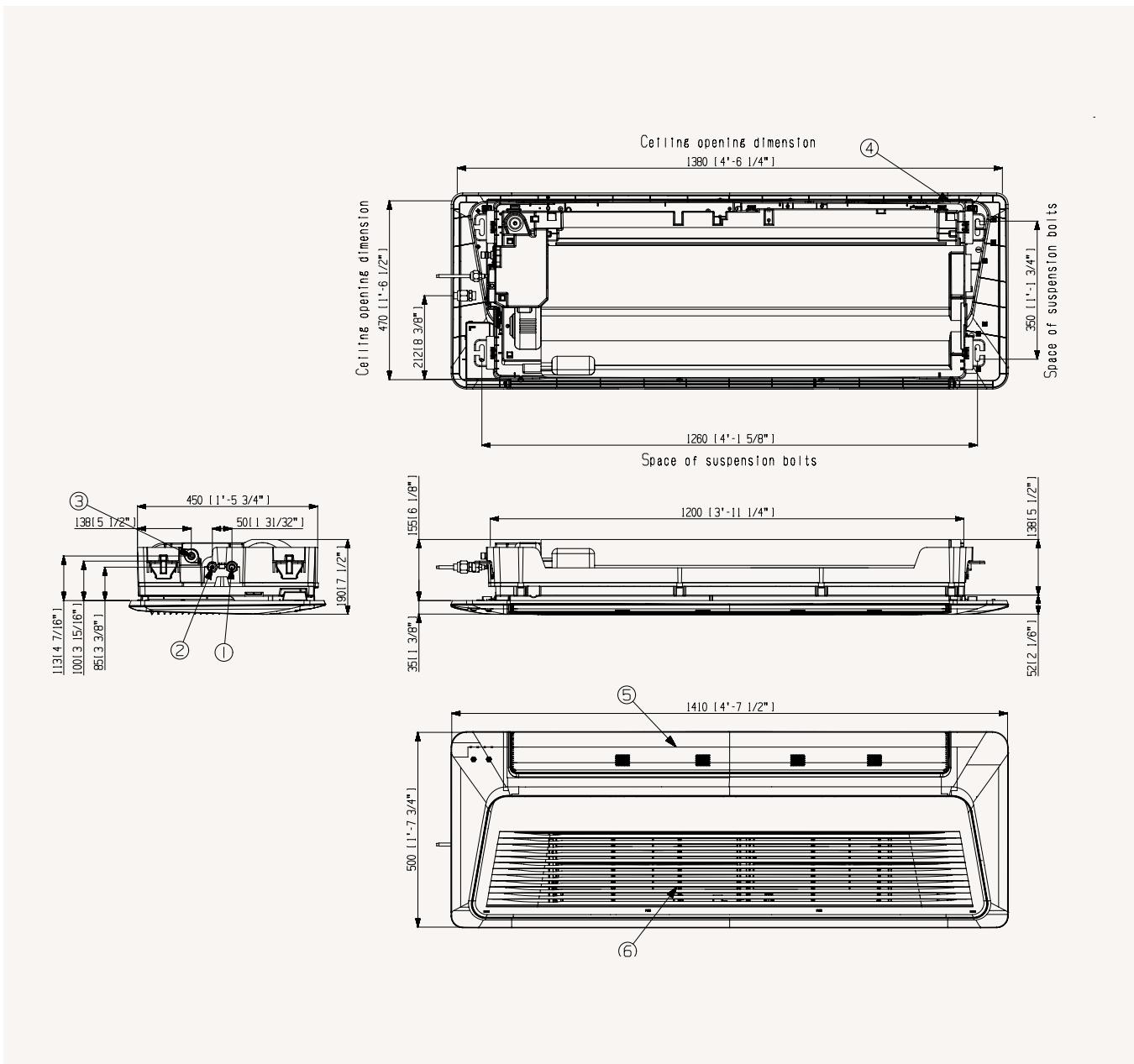
NO	Name	Description
1	Liquid pipe connection	ø12.70 (1/2)
2	Gas pipe connection	ø6.35 (1/4)
3	Drain pipe connection	VP20 (OD 26, ID 20)
4	Power supply/communication wiring conduits	
5	Fresh air intake knock-out hole	

Dimensional drawings

Wind-Free™ 1-Way Cassette

VRF

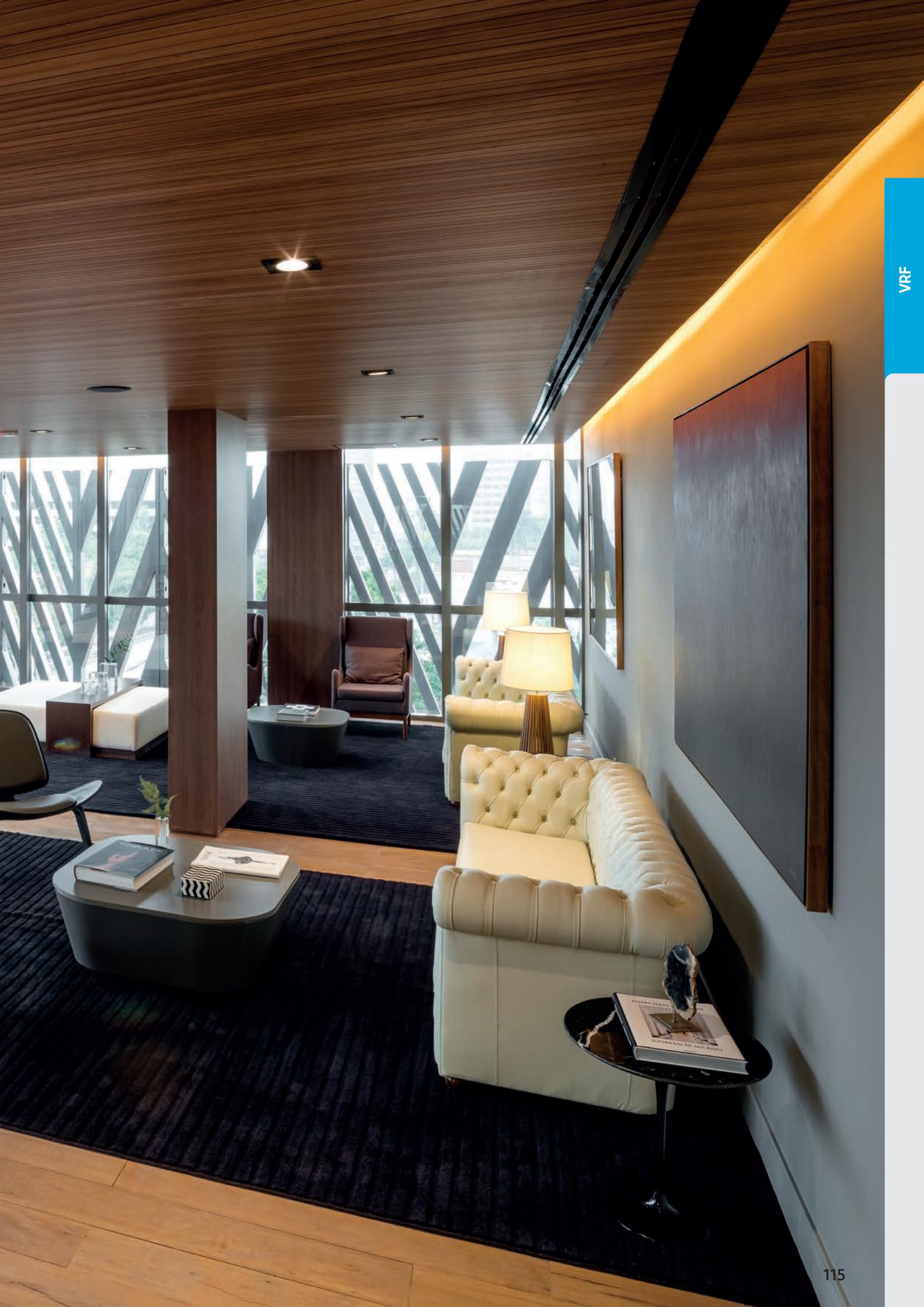
AM056/07INN1DEH/**



NO	Name	Description
		5.2 kW
1	Gas pipe connection	ø12.70 (1/2)
2	Liquid pipe connection	ø6.35 (1/4)
3	Drain hose connection	V25 (OD 32, ID 25)
4	Power supply/communication wiring conduits	
5	Air outlet louvre	
6	Air inlet grille	
		7.1 kW







Specifications

Duct S

- 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.
- Optional condensate drain pump.



Model		AM036HNMPKH/EU	AM045HNMPKH/EU	AM056HNMPKH/EU	AM071HNMPKH/EU	
Power Supply	Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	
Performance	Capacity (Nominal)	Cooling kW Heating kW	3.6 4.0	4.5 5.0	5.6 6.3	
Power	Power Input (Nominal)	Cooling W Heating W	50 50	60 60	70 70	
	Current Input (Nominal)	Cooling A Heating A	0.5 0.5	0.6 0.6	0.7 0.7	
	Current	MCA A MFA/MOP A	1.04 15	1.26 15	1.26 15	
Fan	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	
	Number of Fans	-	2	2	2	
	Airflow Rate	H/M/L (UL)	m³/min l/s	12.0/9.5/8.0 200/158/133	14.0/11.0/8.0 233/183/133	
		External Pressure	mmAq Pa	0.00/2.50/15.00 0.00/24.50/147.20	0.00/3.00/15.00 0.00/29.40/147.20	
Fan Motor	Model	-	BLDC motor (feedback)	BLDC motor (feedback)	BLDC motor (feedback)	
	Output x n	W	153 x 1	153 x 1	153 x 1	
Piping Connections	Liquid Pipe	ø, mm ø, inch	6.35 1/4	6.35 1/4	6.35 1/4	
	Gas Pipe	ø, mm ø, inch	12.7 1/2	12.7 1/2	12.7 1/2	
	Drain Pipe	ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	
Wiring Connections	For power supply	Minimum mm²	1.5	1.5	1.5	
	Connection with Indoor	Minimum mm²	0.75	0.75	0.75	
	Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)			
	Control Method	-	EEV Included	EEV Included	EEV Included	EEV Included
Sound ²	Sound Pressure	(H/M/L)	dB(A)	29/26/23	31/28/24	32/29/25
	Sound Power	Cooling (Nominal)	dB(A)	40	44	45
Dimensions	Net Weight	kg	25.5	25.5	25.5	25.5
	Net Dimensions (W x H x D)	mm	850 x 250 x 700			
Air Filter	Type	-	Removable/Washable/ Mildew-proof	Removable/Washable/ Mildew-proof	Removable/Washable/ Mildew-proof	Removable/Washable/ Mildew-proof
Additional Accessories	Drain Pump	Drain Pump Model	MDP-G075SQ (built-in) MDP-G075SP (external)	MDP-G075SQ (built-in) MDP-G075SP (external)	MDP-G075SQ (built-in) MDP-G075SP (external)	MDP-G075SQ (built-in) MDP-G075SP (external)
		Max. Lifting Height mm	750	750	750	750

Accessories



External Drain Pump	Built-in Drain Pump	Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
MDP-G075SP	MDP-G075SQ	AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA

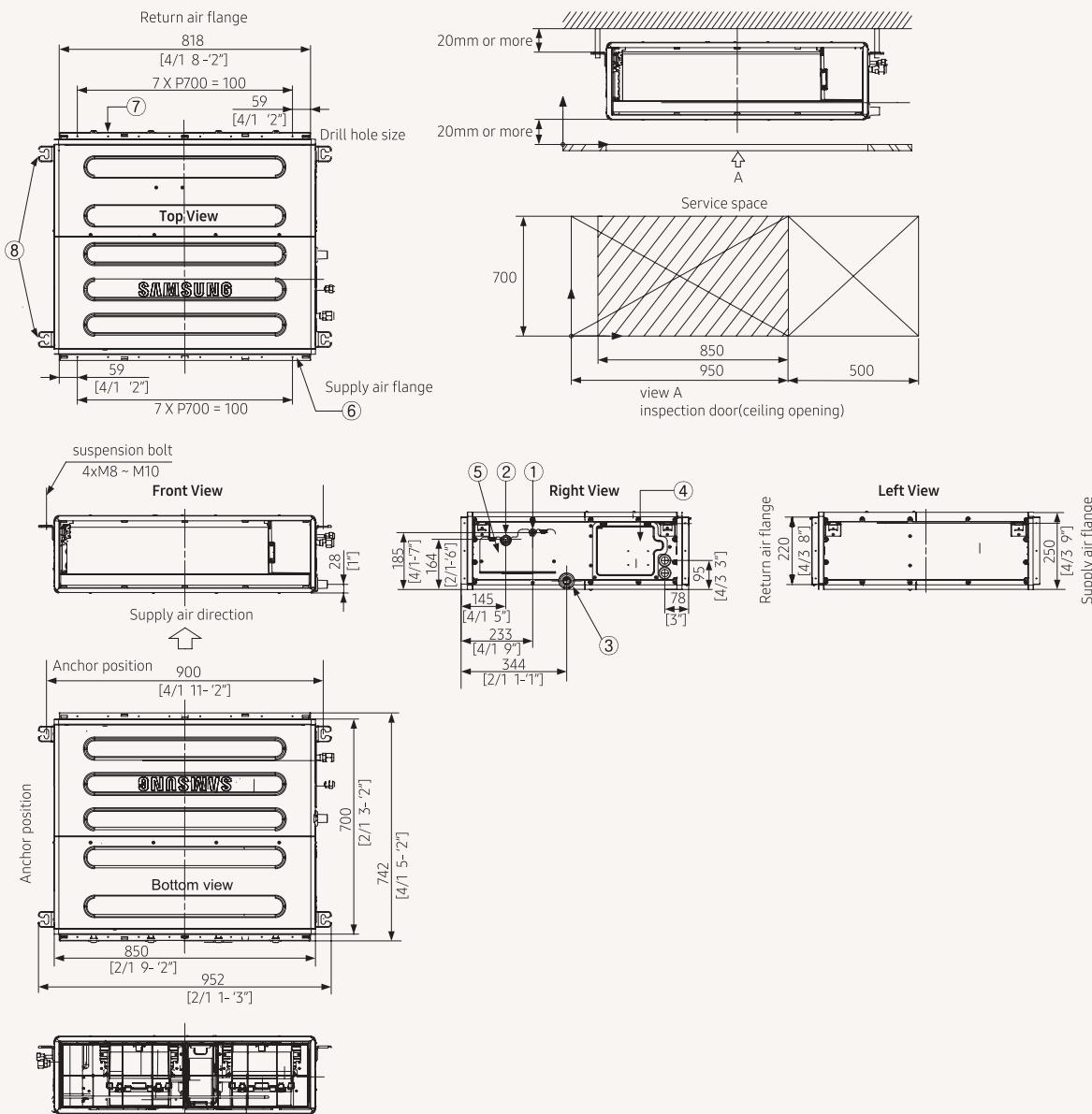


AM090HNMPKH/EU	AM112HNMPKH/EU	AM112HNHPKH/EU	AM128HNMPKH/EU	AM128HNHPKH/EU	AM140HNMPKH/EU	AM140HNHPKH/EU
1Φ, 2, 220~240 V, 50 Hz						
9.0	11.2	11.2	12.8	12.8	14.0	14.0
10.0	12.5	12.5	13.8	13.8	16.0	16.0
145	165	205	175	230	215	260
145	165	205	175	230	215	260
1.2	1.4	205	1.5	1.4	1.7	1.5
1.2	1.4	1.2	1.5	1.4	1.7	1.5
2.03	2.51	2.92	2.51	3.17	2.51	3.42
15	15	15	15	15	15	15
Sirocco Fan						
3	3	3	3	3	3	3
29.0/25.0/22.0	35.0/29.0/22.0	35.0/29.0/22.0	38.0/32.0/25.0	38.0/32.0/25.0	42.0/34.0/25.0	42.0/34.0/25.0
483/417/367	583/483/367	583/483/367	633/533/417	633/533/417	700/567/417	700/567/417
0.00/4.00/15.00	0.00/5.20/15.00	3.00/6.20/20.00	0.00/5.20/15.00	3.00/6.20/20.00	0.00/5.20/15.00	3.00/6.20/20.00
0.00/39.20/147.20	0.00/51.00/147.20	0.00/60.80/196.20	0.00/51.00/147.20	0.00/60.80/196.20	0.00/51.00/147.20	0.00/60.80/196.20
BLDC motor (feedback)						
153 x 1	244 x 1	350 x 1	244 x 1	350 x 1	244 x 1	350 x 1
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	15.88	15.88	15.88	15.88	15.88	15.88
5/8	5/8	5/8	5/8	5/8	5/8	5/8
VP25 (OD 32, ID 25)						
1.5	1.5	1.5	1.5	1.5	1.5	1.5
0.75	0.75	0.75	0.75	0.75	0.75	0.75
F1, F2						
R410A(Fluorinated greenhouse gas, GWP=2,088)						
EEV Included						
38/35/32	38/35/32	38/35/32	39/36/33	39/36/33	40/37/33	40/37/34
44	45	46	46	47	47	49
33.0	38.0	46.5	38.0	46.5	38.0	46.5
1,200 x 250 x 700	1,300 x 300 x 700					
Removable/Washable/ Mildew-proof						
MDP-G075SQ (built-in) MDP-G075SP (external)						
750	750	750	750	750	750	750

Technical Drawings

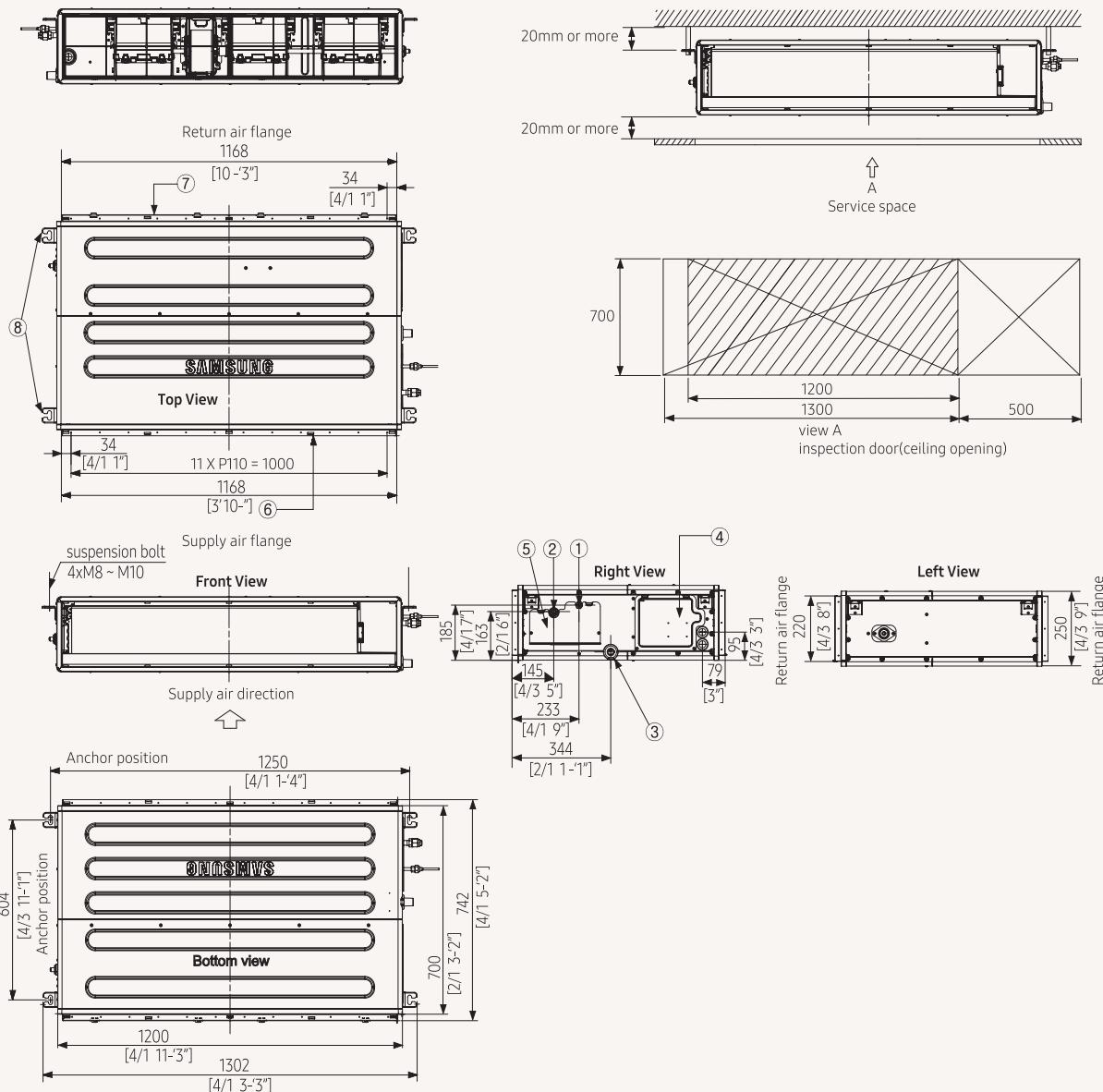
Duct S

AM036HNMPKH/EU, AM045HNMPKH/EU, AM056HNMPKH/EU, AM071HNMPKH/EU



NO	Name	Description
1	Refrigerant liquid pipe	ø6.35 [1/4] Flare
2	Refrigerant gas pipe	ø12.70 [1/2] Flare
3	Condensate drain	VP25 (OD 32, ID 25)
4	Power supply/communication wiring conduits	
5	Refrigerant pipe conduits	
6	Supply air flange	
7	Return air flange	
8	Hook	

AM090HNMPKH/EU

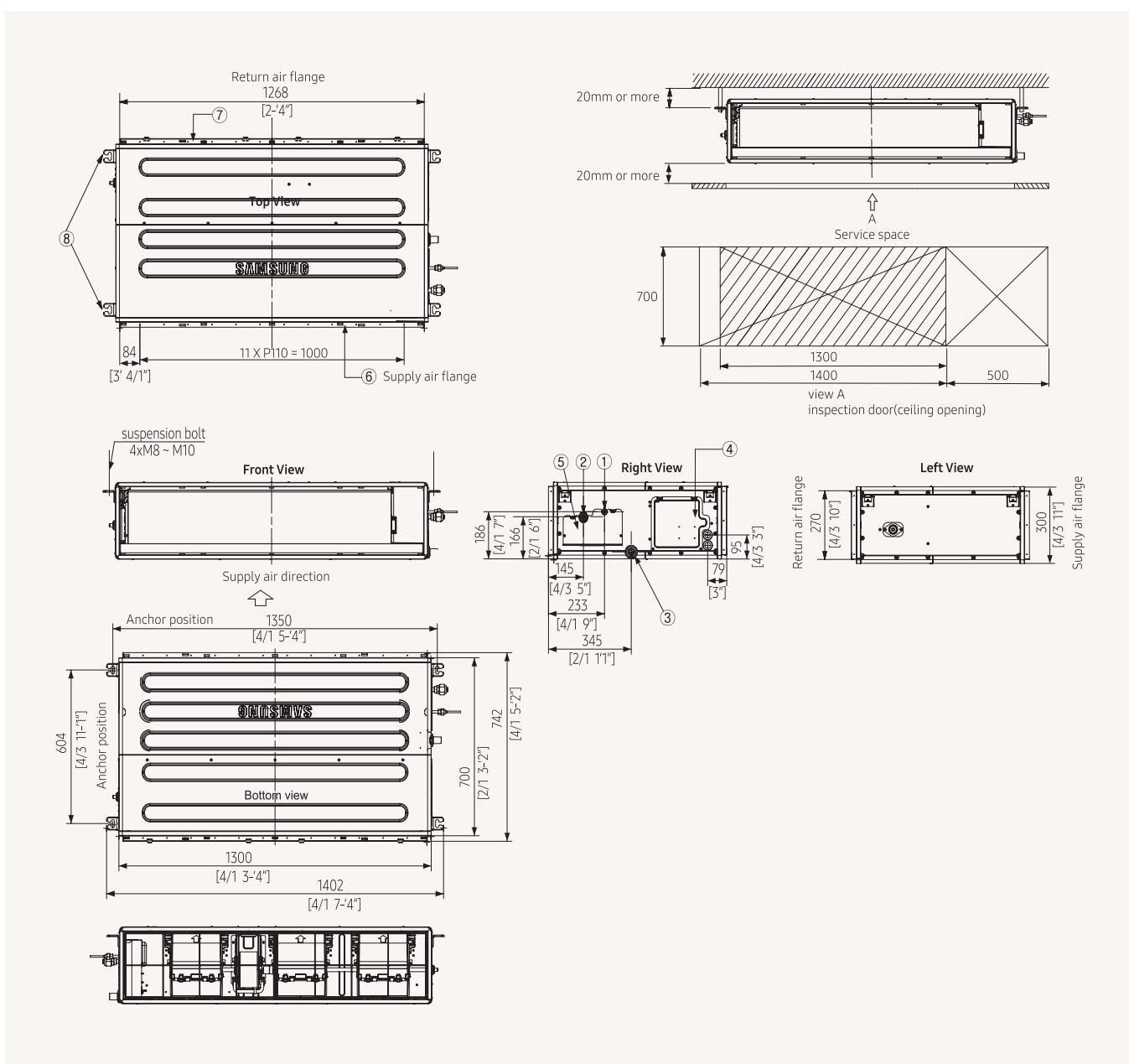


NO	Name	Description
1	Refrigerant liquid pipe	ø9.52 [3/8] Flare connection
2	Refrigerant gas pipe	ø15.88 [5/8] Flare connection
3	Condensate drain	VP25 (OD 32, ID 25)
4	Power supply/communication wiring conduits	
5	Refrigerant pipe conduits	
6	Supply air flange	
7	Return air flange	
8	Hook	

Technical Drawings

Duct S

AM112HNMPKH/EU, AM128HNMPKH/EU, AM140HNMPKH/EU, AM112HNHPKH/EU, AM128HNHPKH/EU, AM140HNHPKH/EU



NO	Name	Description
1	Refrigerant liquid pipe	ø9.52 [3/8] Flare connection
2	Refrigerant gas pipe	ø15.88 [5/8] Flare connection
3	Condensate drain	VP25 (OD 32, ID 25)
4	Power supply/communication wiring conduits	
5	Refrigerant pipe conduits	
6	Supply air flange	
7	Return air flange	
8	Hook	



Specifications

LSP Slim Duct (drain pump excluded)

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



Model		AM017FNLD/EU	AM022FNLD/EU	AM028FNLD/EU	AM036FNLD/EU	
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	
Performance	Capacity (Nominal)	Cooling kW	1.7	2.2	2.8	
		Heating	1.9	2.5	3.2	
Power	Power Input (Nominal)	Cooling W	55	55	60	
		Heating	55	55	60	
	Current Input (Nominal)	Cooling A	0.30	0.30	0.32	
		Heating	0.3	0.3	0.33	
Fan	Motor	Type	Sirocco Fan	Sirocco Fan	Sirocco Fan	
		Number of fans	1	1	1	
	Airflow Rate	m³/min	5.5/4.3/3.2	7.0/6.1/5.3	7.5/6.6/5.6	
		l/s	91.67/71.67/53.33	116.67/101.67/88.33	125.00/110.00/93.33	
	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	
		Pa	0.00/9.81/29.42	0.00/9.81/29.42	0.00/9.81/29.42	
		WG	0.000/0.039/0.118	0.000/0.039/0.118	0.000/0.039/0.118	
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)	
Field Wiring	Power Source Wire	Below 20 m/over 20 m mm²	1.5/2.5	1.5/2.5	1.5/2.5	
	Transmission Cable	mm²	0.75–1.50	0.75–1.50	0.75–1.50	
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)			
	Control Method	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure (H/M/L)	dB(A)	23/22/20	26/24/21	28/26/23	32/30/27
Dimensions	Net Weight	kg	19.0	19.0	19.0	19.5
	Net Dimensions (W x H x D)	mm	700 x 199 x 600	700 x 199 x 600	700 x 199 x 600	700 x 199 x 600
Additional Accessories	Drain Pump	Drain Pump	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D
		Max. Lifting Height/Displacement mm / litres/h	750/24	750/24	750/24	750/24
	Air Filter	-	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter

Accessories



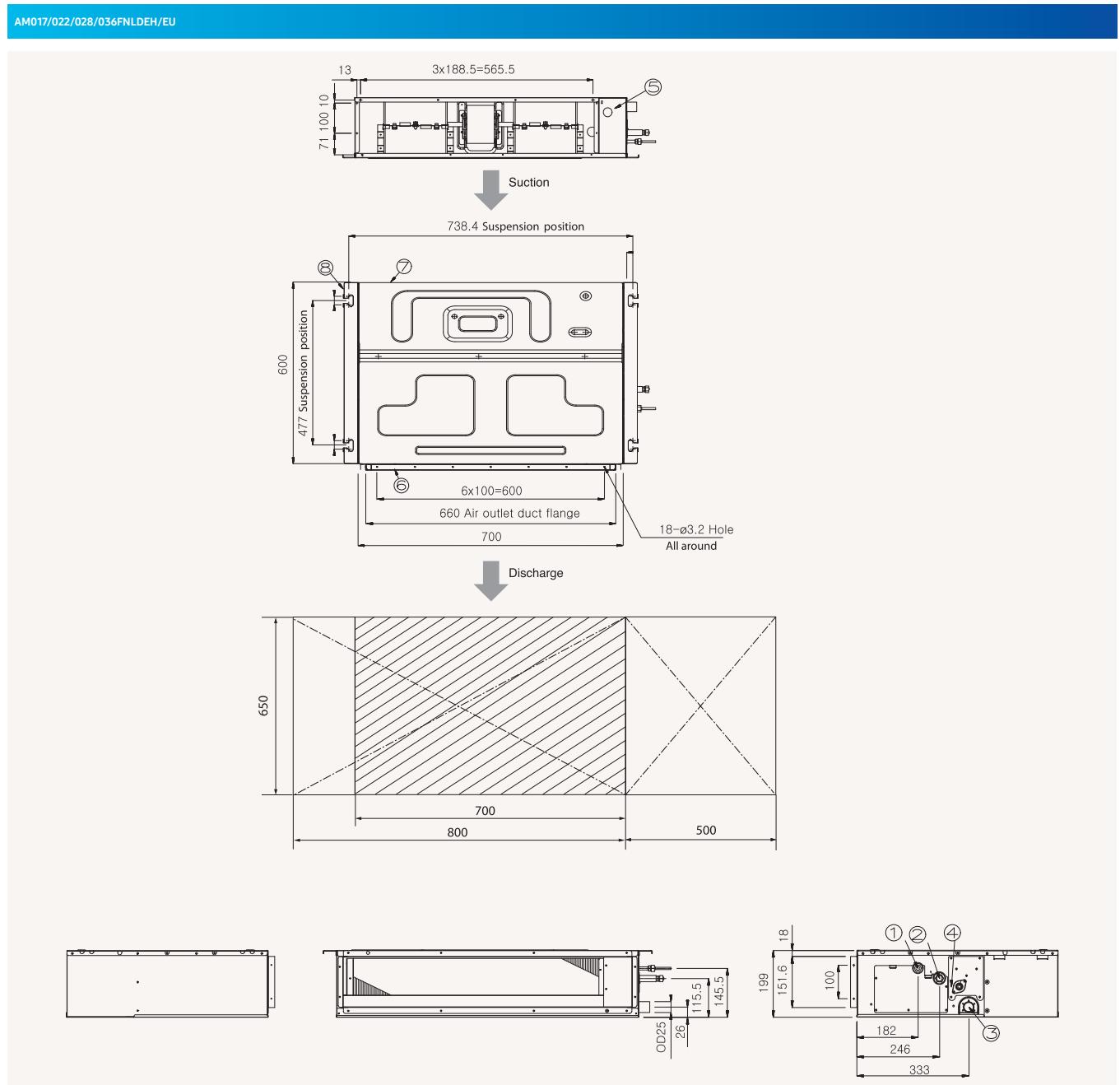
Drain Pump (optional)	Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
MDP-E075SEE3D	AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA



AM045FNLD/EU	AM056FNLD/EU	AM07FNLD/EU	AM090FNLD/EU	AM112FNLD/EU	AM12BFNLD/EU	AM140FNLD/EU
1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
4.5	5.6	7.1	9	11.2	12.8	14
5	6.3	8	10	12.5	13.8	16
90	95	120	170	170	200	220
90	95	120	170	170	200	220
0.52	0.53	0.60	0.96	0.96	1.28	1.43
0.52	0.53	0.6	0.96	0.96	1.28	1.43
Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
1	1	1	1	1	1	1
11.0/9.6/8.3	12.0/10.5/9.0	16.5/15.0/13.5	29.0/27.0/25.0	31.2/29.0/27.0	34.0/32.0/30.0	36.0/34.0/32.0
183.33/160.00/138.33	200.00/175.00/150.00	275.00/250.00/225.00	483.33/450.00/416.67	520.00/483.33/450.00	566.67/533.33/500.00	600.00/566.67/533.33
0.00/2.00/4.00	0.00/2.00/4.00	0.00/2.00/4.00	0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00
0.00/19.61/39.23	0.00/19.61/39.23	0.00/19.61/39.23	0.00/29.42/58.84	0.00/29.42/58.84	0.00/29.42/58.84	0.00/29.42/58.84
0.000/0.079/0.157	0.000/0.079/0.157	0.000/0.079/0.157	0.000/0.118/0.236	0.000/0.118/0.236	0.000/0.118/0.236	0.000/0.118/0.236
6.35	6.35	9.52	9.52	9.52	9.52	9.52
1/4	1/4	3/8	3/8	3/8	3/8	3/8
12.70	12.70	15.88	15.88	15.88	15.88	15.88
1/2	1/2	5/8	5/8	5/8	5/8	5/8
VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
R410A(Fluorinated greenhouse gas, GWP=2,088)						
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
35/31/26	36/34/31	38/36/33	37/36/34	37/36/34	37/36/34	39/38/36
24.0	24.0	30.0	40.0	40.0	41.5	41.5
900 x 199 x 600	900 x 199 x 600	1,100 x 199 x 600	1,300 x 295 x 690			
MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D
750/24	750/24	750/24	750/24	750/24	750/24	750/24
Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter

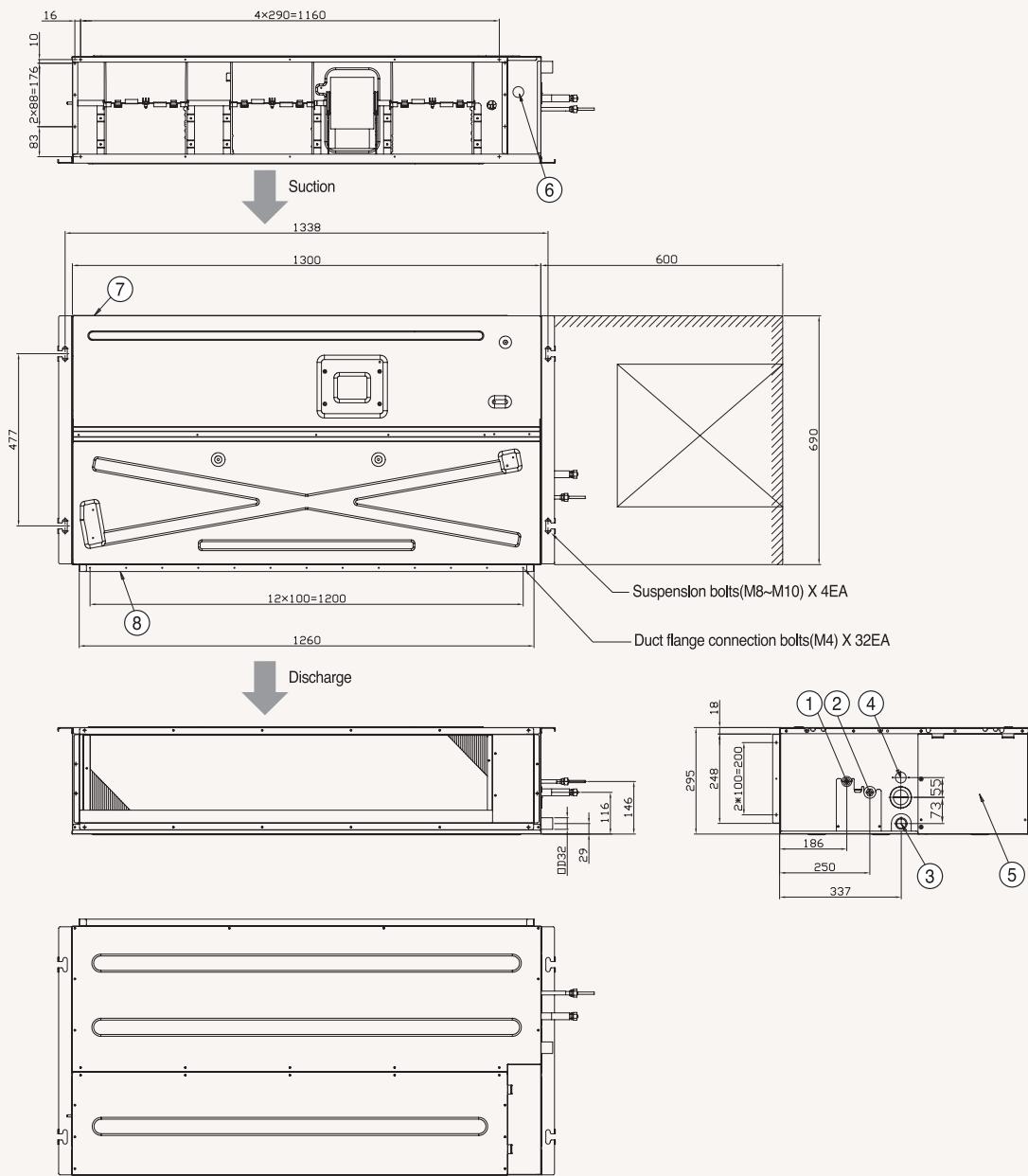
Dimensional drawings

LSP Slim Duct (drain pump excluded)



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

AM090 /112/128/140*NLEH/EU

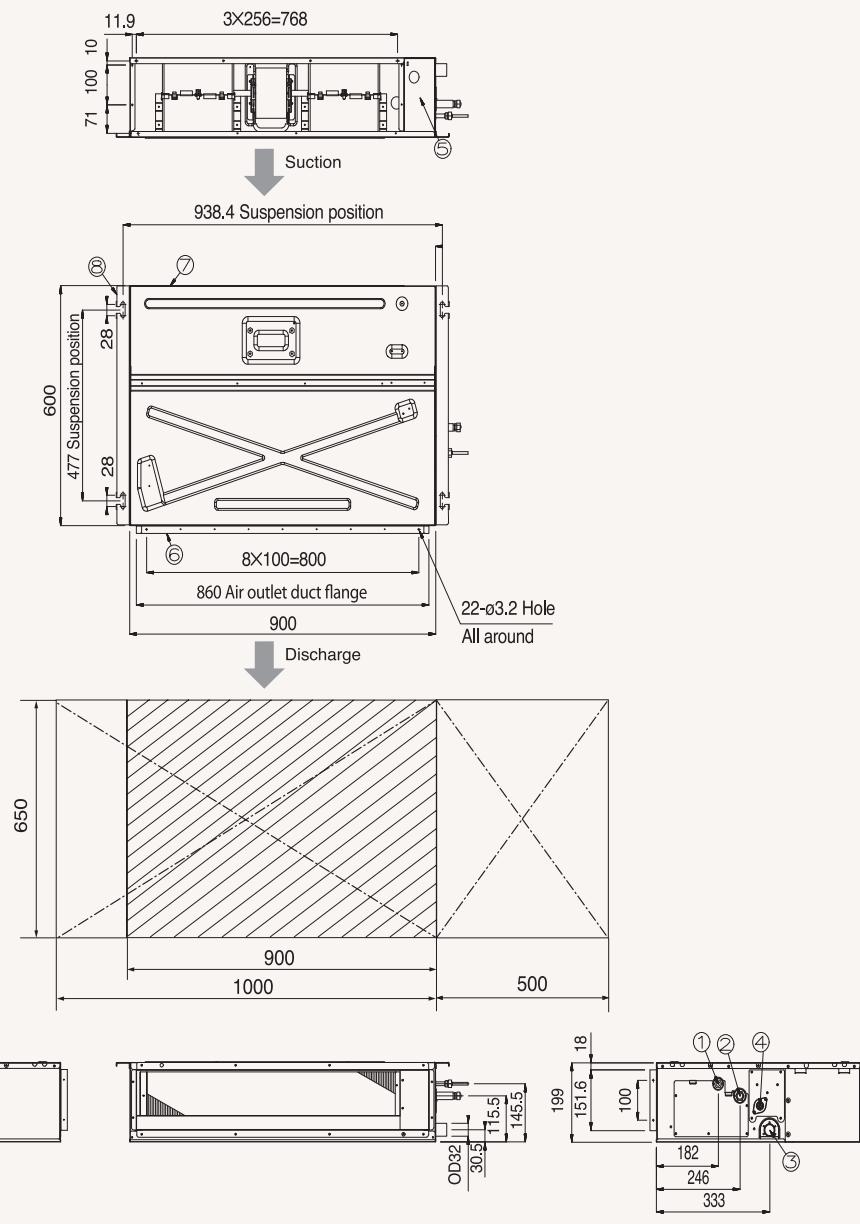


NO	Name	Description
1	Liquid pipe connection	ø9.52 Flare
2	Gas pipe connection	ø15.88 Flare
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
5	Power supply/communication wiring conduits	
6	Air discharge grille flange	
7	Return air side	
8	Hook	

Dimensional drawings

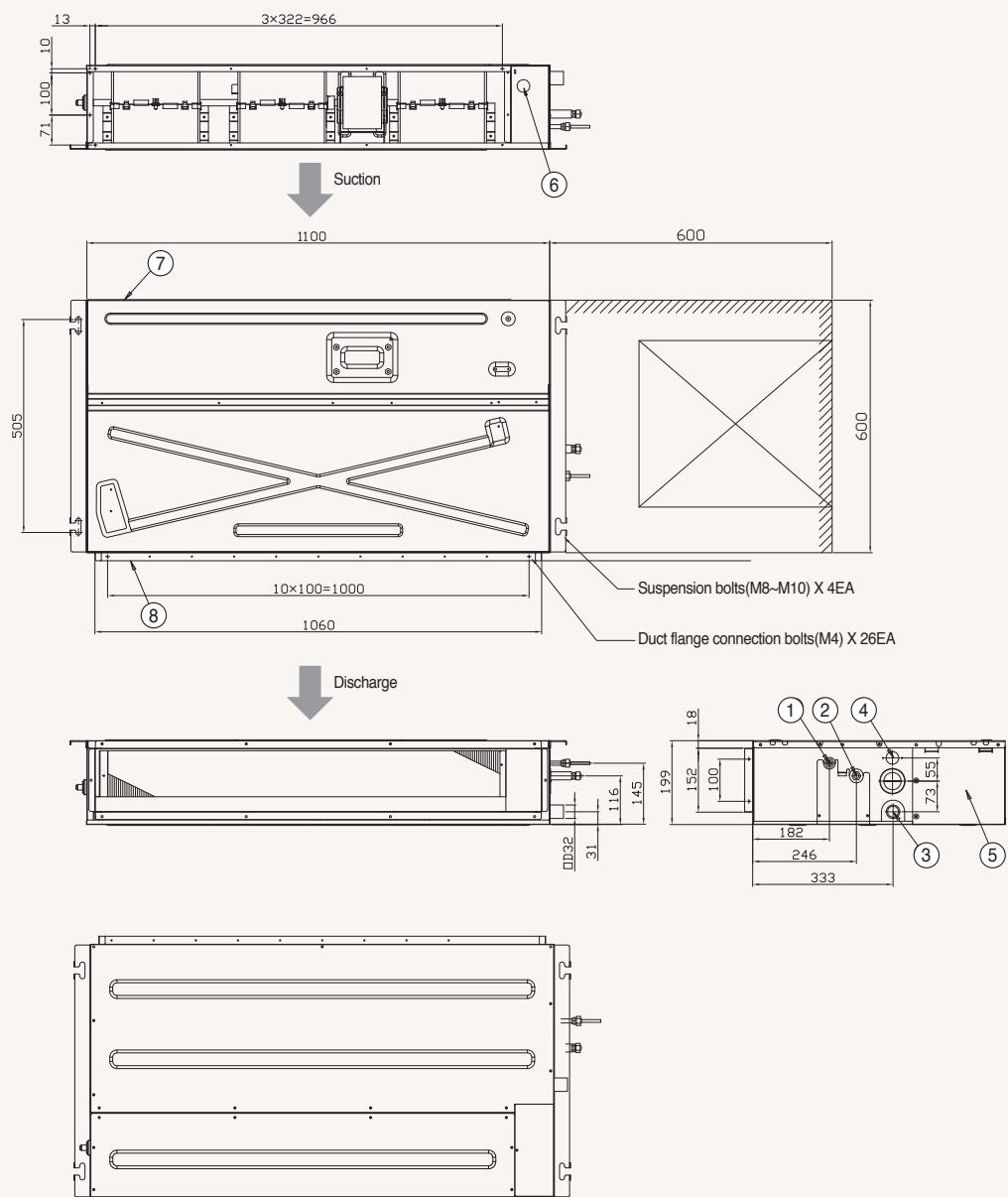
LSP Slim Duct (drain pump excluded)

AM045/056-NLDEH/EU



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	

AM071*NLDEH/EU



NO	Name	Description
1	Liquid pipe connection	ø9.52 Flare
2	Gas pipe connection	ø15.88 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	

Specifications

LSP Slim 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.



Model		AM017KNLDEH/EU	AM022KNLDEH/EU	AM028KNLDEH/EU	AM036KNLDEH/EU	
Power Supply	Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	
Performance	Capacity (Nominal)	Cooling kW Heating	1.7 1.9	2.2 2.5	2.8 3.2	
Power	Power Input (Nominal)	Cooling W Heating	28 28	30 30	34 36	
	Current Input (Nominal)	Cooling A Heating	0.23 0.23	0.25 0.25	0.28 0.30	
Fan	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	
	Motor	Output x n	69 x 1	69 x 1	69 x 1	
	Airflow Rate	H/M/L (UL)	5.45/4.45/3.80 l/s	6.00/4.90/3.80 90.83/74.17/63.33	7.05/5.15/4.35 100.00/81.67/63.33	
	External Static Pressure	Min/Std/Max	0.00/1.00/3.00 Pa	0.00/1.00/3.00 0.00/9.81/29.42	0.00/1.00/3.00 0.00/9.81/29.42	
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)	
Field Wiring	Power Source Wire	mm ²	1.5–2.5	1.5–2.5	1.5–2.5	
	Transmission Cable	mm ²	0.75–1.50	0.75–1.50	0.75–1.50	
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)			
	Control Method	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure (H/M/L)	dB(A)	25/22/19	26/23/19	28/24/19	31/26/ 20
	Sound Power	Cooling	40	42	44	46
Dimensions	Net Weight	kg	15.3	15.3	15.3	15.7
	Net Dimensions (W x H x D)	mm	700 x 199 x 440	700 x 199 x 440	700 x 199 x 440	700 x 199 x 440
Additional Accessories	Drain Pump	Drain Pump	-	Included	Included	Included
		Max. Lifting Height/ Displacement	mm / litres/h	750/24	750/24	750/24
	Air Filter	-	Filter Included	Filter Included	Filter Included	Filter Included

Accessories



Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA



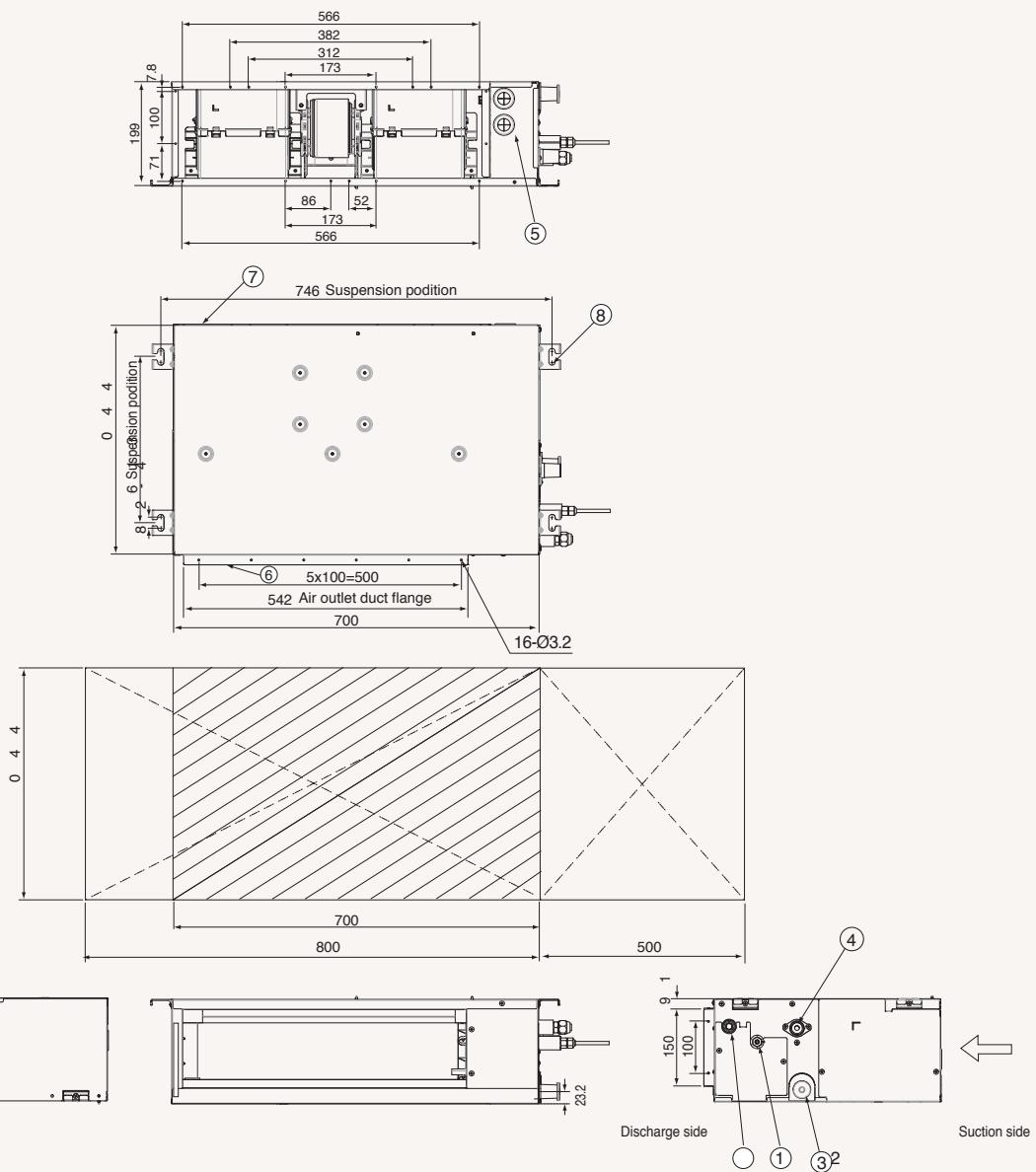
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1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
4.5	5.6	7.1	9.0	11.2	14.0
5.0	6.3	8.0	10.0	12.5	16.0
90	95	120	170	170	220
90	95	120	170	170	220
0.52	0.53	0.60	0.96	0.96	1.43
0.52	0.53	0.60	0.96	0.96	1.43
Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
-	-	-	-	-	-
11.00/9.60/8.30	12.00/10.50/9.00	16.50/15.00/13.50	29.00/27.00/25.00	31.20/29.00/27.00	36.00/34.00/32.00
183.33/160.00/138.33	200.00/175.00/150.00	275.00/250.00/225.00	483.33/450.00/416.67	520.00/483.33/450.00	600.00/566.67/533.33
0.00/2.00/4.00	0.00/2.00/4.00	0.00/2.00/4.00	0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00
0.00/19.61/39.23	0.00/19.61/39.23	0.00/19.61/39.23	0.00/29.42/58.84	0.00/29.42/58.84	0.00/29.42/58.84
6.35	6.35	9.52	9.52	9.52	9.52
1/4	1/4	3/8	3/8	3/8	3/8
12.70	12.70	15.88	15.88	15.88	15.88
1/2	1/2	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)
1.5~2.5	1.5~2.5	1.5~2.5	1.5~2.5	1.5~2.5	1.5~2.5
0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
R410A(Fluorinated greenhouse gas, GWP=2,088)					
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
35/31/26	36/34/31	38/36/33	37/36/34	37/36/34	39/38/36
53	55	57	66	66	68
24.5	24.5	30.5	40.5	40.5	42.0
900 x 199 x 600	900 x 199 x 600	1,100 x 199 x 600	1,300 x 295 x 690	1,300 x 295 x 690	1,300 x 295 x 690
Included	Included	Included	Included	Included	Included
750/24	750/24	750/24	750/24	750/24	750/24
Filter Included	Filter Included	Filter Included	Filter Included	Filter Included	Filter Included

Dimensional drawings

VRF

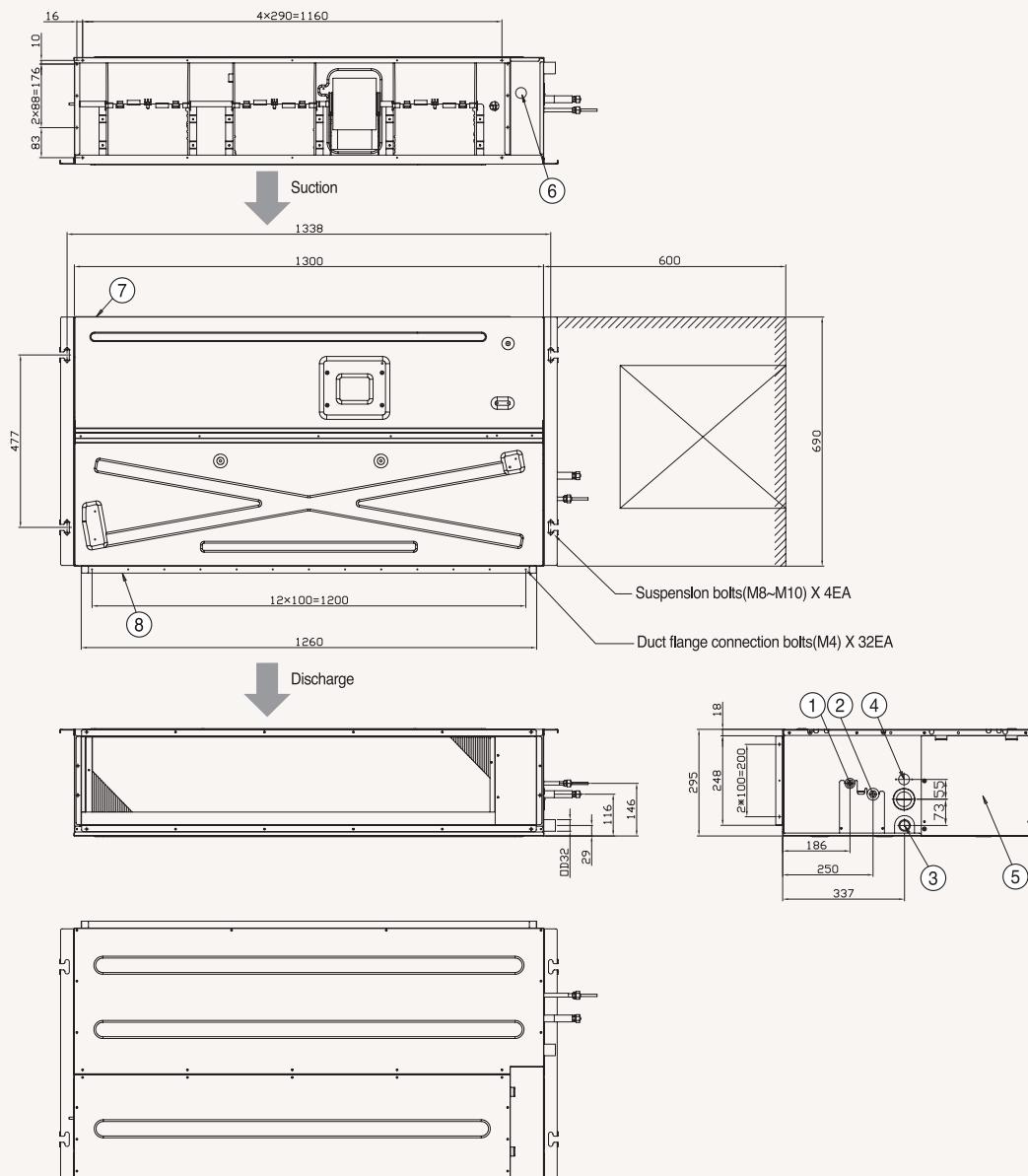
LSP Slim Duct (drain pump included)

AM017/022/028/036KNLDEH/EU



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

AM090/112/128/140*NLDHE/EU

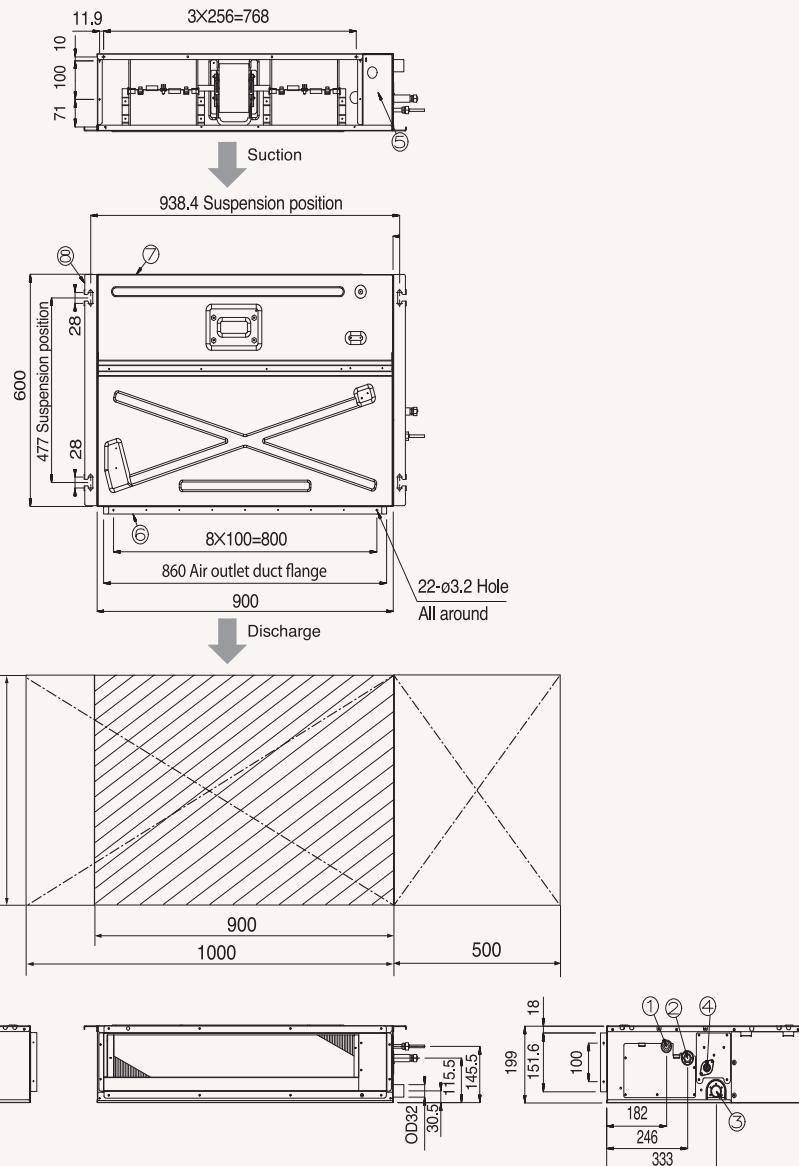


NO	Name	Description
1	Liquid pipe connection	ø9.52 Flare
2	Gas pipe connection	ø15.88 Flare
3	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
4	Drain pipe connection with drain pump	VP25 (OD 32, ID 25)
5	Power supply/communication wiring conduits	
6	Air discharge grille flange	
7	Return air side	
8	Hook	

Dimensional drawings

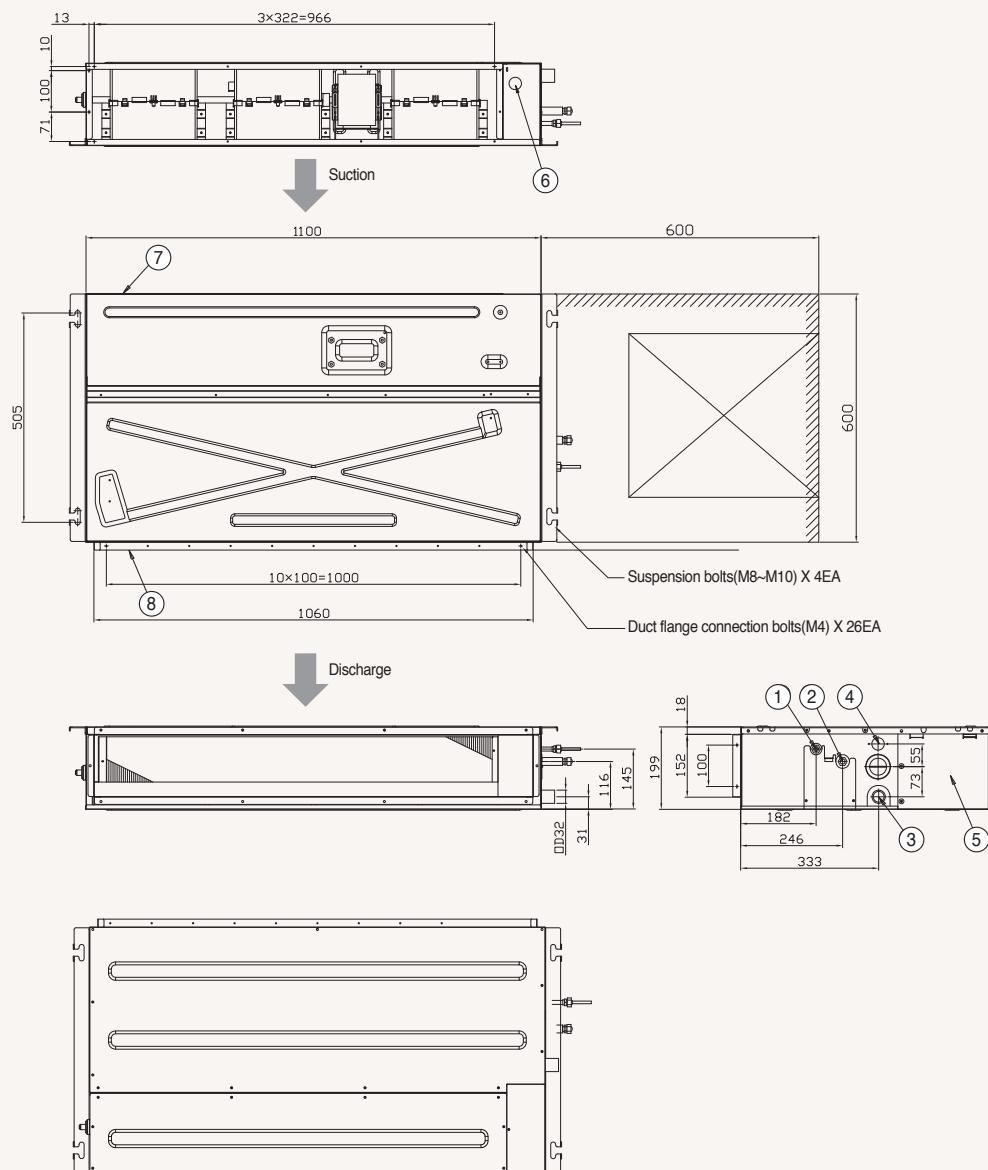
LSP Slim Duct (drain pump included)

AM045/056+NLD/EU



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	

AM071*NLDHE/EU



NO	Name	Description
1	Liquid pipe connection	ø9.52 Flare
2	Gas pipe connection	ø15.88 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	

Specifications

MSP 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 permanent filter is included.
- Auto Restart function.
- Optional condensate drain pump.



		Model		AM022FNMDEH/EU	AM028FNMDEH/EU	AM036FNMDEH/EU
Power Supply			Φ , #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	2.2	2.8	3.6
		Heating		2.5	3.2	4
Power	Power Input (Nominal)	Cooling	W	80	80	85
		Heating		80	80	85
	Current Input (Nominal)	Cooling	A	0.40	0.40	0.55
		Heating		0.40	0.40	0.55
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output x n	W	69 x 1	69 x 1	112 x 1
		Number of Fans	-	1	1	1
	Airflow Rate	H/M/L (UL)	m^3/min	8.50/7.50/6.30	10.00/9.20/7.50	12.00/10.20/8.80
			l/s	141.67/125.00/105.00	166.67/153.33/125.00	200.00/170.00/146.67
	External Static Pressure	Min/Std/Max	mmAq	0.00/2.00/6.00	0.00/2.00/6.00	0.00/2.00/6.00
			Pa	0.00/19.61/58.84	0.00/19.61/58.84	0.00/19.61/58.84
			WG	0.000/0.079/0.236	0.000/0.079/0.236	0.000/0.079/0.236
Piping Connections	Liquid Pipe	\varnothing , mm		6.35	6.35	6.35
		\varnothing , inch		1/4	1/4	1/4
	Gas Pipe	\varnothing , mm		12.7	12.7	12.7
		\varnothing , inch		1/2	1/2	1/2
	Drain Pipe	\varnothing , 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	mm^2	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		mm^2	0.75–1.50	0.75–1.50	0.75–1.50
Refrigerant	Type		-	R410A(Fluorinated greenhouse gas, GWP=2,088)		
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure	(H/M/L)	dB(A)	23/21/19	24/22/19	29/27/24
Dimensions	Net Weight		kg	23.5	23.5	23.5
	Net Dimensions (W x H x D)		mm	900 x 199 x 600	900 x 199 x 600	900 x 199 x 600
Additional Accessories	Drain Pump	Drain Pump	-	MDP-E075SEE3D	MDP-E075SEE3D	MDP-E075SEE3D
		Max. Lifting Height/Displacement	mm / litres/h	750/24	750/24	750/24
	Air Filter		-	Long-life Filter	Long-life Filter	Long-life Filter

Accessories



Drain Pump (excluded)	Drain Pump (excluded)	Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
MDP-E075SEE3D	MDP-N047SNC1D	AR-EH03E (to be matched with MRK-A10N)	MWR-SH1N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA



AM045FNMDEH/EU	AM056FNMDEH/EU	AM071FNMDEH/EU	AM090FNMDEH/EU	AM112FNMDEH/EU
1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
4.5	5.6	7.1	9	11.2
5	6.3	8	10	12.5
125	130	190	240	260
125	130	190	240	260
1.15	1.10	1.25	1.30	1.17
1.15	1.10	1.25	1.30	1.17
Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
219 x1	124 x1	124 x1	130 x1	130 x1
1	1	1	1	1
14.00/12.00/10.50	14.50/13.00/11.50	18.50/17.00/15.50	19.50/18.00/16.50	27.00/25.00/23.00
233.33/200.00/175.00	241.67/216.67/191.67	308.33/283.33/258.33	325.00/300.00/275.00	450.00/416.67/383.33
0.00/4.00/8.00	0.00/4.00/8.00	0.00/4.00/8.00	4.00/6.00/8.00	4.00/8.00/12.00
0.00/39.23/78.45	0.00/39.23/78.45	0.00/39.23/78.45	39.23/58.84/78.45	39.23/78.45/117.68
0.000/0.157/0.314	0.000/0.157/0.314	0.000/0.157/0.314	0.157/0.236/0.315	0.236/0.314/0.472
6.35	6.35	9.52	9.52	9.52
1/4	1/4	3/8	3/8	3/8
12.7	12.7	15.88	15.88	15.88
1/2	1/2	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)
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
R410A(Fluorinated greenhouse gas, GWP=2,088)				
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
32/30/28	35/33/31	39/35/31	40/37/34	41/40/38
28.0	28.0	28.0	32.0	35.5
900 x 260 x 480	900 x 260 x 480	900 x 260 x 480	1,150 x 260 x 480	1,150 x 320 x 480
MDP-M075SGU3D	MDP-M075SGU3D	MDP-M075SGU3D	MDP-M075SGU1D	MDP-M075SGU1D
750/24	750/24	750/24	750/24	750/24
Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter

Specifications

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.
- Built-in condensation drain pump.



Model			AM022KNMDEH/EU	AM028KNMDEH/EU	AM036KNMDEH/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling	kW	2.2	2.8
		Heating		2.5	3.2
					4.0
Power	Power Input (Nominal)	Cooling	W	80	80
		Heating		80	80
					85
	Current Input (Nominal)	Cooling	A	0.40	0.40
		Heating		0.40	0.40
					0.55
	Motor	Type	-	Sirocco Fan	Sirocco Fan
		Output x n	W	69 x 1	69 x 1
		Number of Fans	-	1	1
					1
	Airflow Rate	H/M/L (UL)	m³/min	8.50/7.50/6.30	10.00/9.20/7.50
			l/s	141.67/125.00/105.00	166.67/153.33/125.00
					200.00/170.00/146.67
	External Static Pressure	Min/Std/Max	mmAq	0.00/2.00/6.00	0.00/2.00/6.00
			Pa	0.00/19.61/58.84	0.00/19.61/58.84
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)
					VP25 (OD 32, ID 25)
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	Type	-		R410A(Fluorinated greenhouse gas, GWP=2,088)	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure (H/M/L)	dB(A)		23/21/19	24/22/19
	Sound Power Cooling			47	48
					53
Dimensions	Net Weight	kg		24.0	24.0
	Net Dimensions (W x H x D)	mm		900 x 199 x 600	900 x 199 x 600
Additional Accessories	Drain Pump	Drain Pump	-	Included	Included
					Included

Accessories



Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA

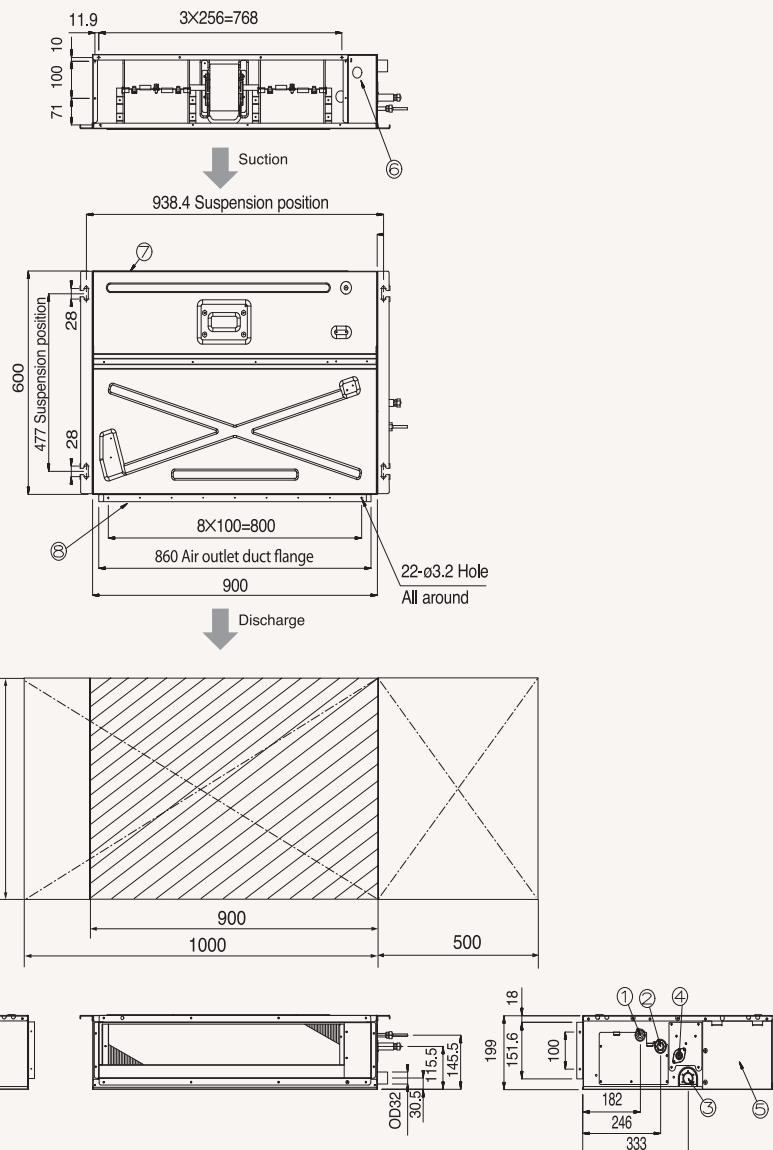


AM045KNMDEH/EU	AM056KNMDEH/EU	AM071KNMDEH/EU	AM090KNMDEH/EU	AM112KNMDEH/EU
1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
4.5	5.6	7.1	9.0	11.2
5.0	6.3	8.0	10.0	12.5
125	130	190	240	260
125	130	190	240	260
1.15	1.10	1.25	1.30	1.17
1.15	1.10	1.25	1.30	1.17
Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
219 x 1	124 x 1	124 x 1	130 x 1	130 x 1
1	1	1	1	1
14.00/12.00/10.50	14.50/13.00/11.50	18.50/17.00/15.50	19.50/18.00/16.50	27.00/25.00/23.00
233.33/200.00/175.00	241.67/216.67/191.67	308.33/283.33/258.33	325.00/300.00/275.00	450.00/416.67/383.33
0.00/4.00/8.00	0.00/4.00/8.00	0.00/4.00/8.00	4.00/6.00/8.00	4.00/8.00/12.00
0.00/39.23/78.45	0.00/39.23/78.45	0.00/39.23/78.45	39.23/58.84/78.45	39.23/78.45/117.68
6.35	6.35	9.52	9.52	9.52
1/4	1/4	3/8	3/8	3/8
12.70	12.70	15.88	15.88	15.88
1/2	1/2	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)
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
R410A(Fluorinated greenhouse gas, GWP=2,088)				
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
32/30/28	35/33/31	39/35/31	40/37/34	41/40/38
54	57	61	63	66
28.5	28.5	28.5	32.5	36.0
900 x 260 x 480	900 x 260 x 480	900 x 260 x 480	1,150 x 260 x 480	1,150 x 320 x 480
Included	Included	Included	Included	Included

Dimensional drawings

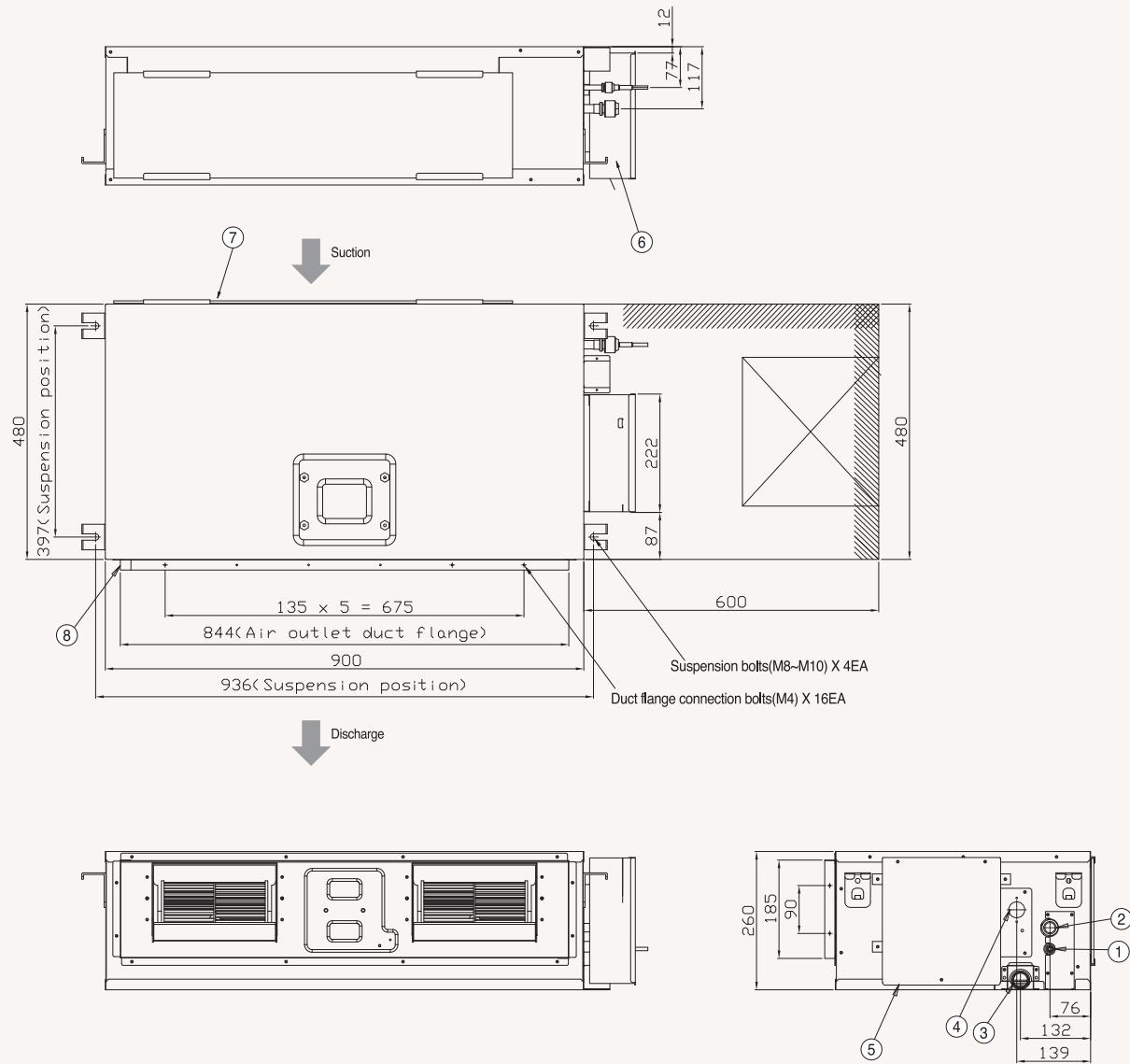
MSP Duct

AM022/028/036*NMDEH/EU



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	

AM045/056/071*NMDHE/EU

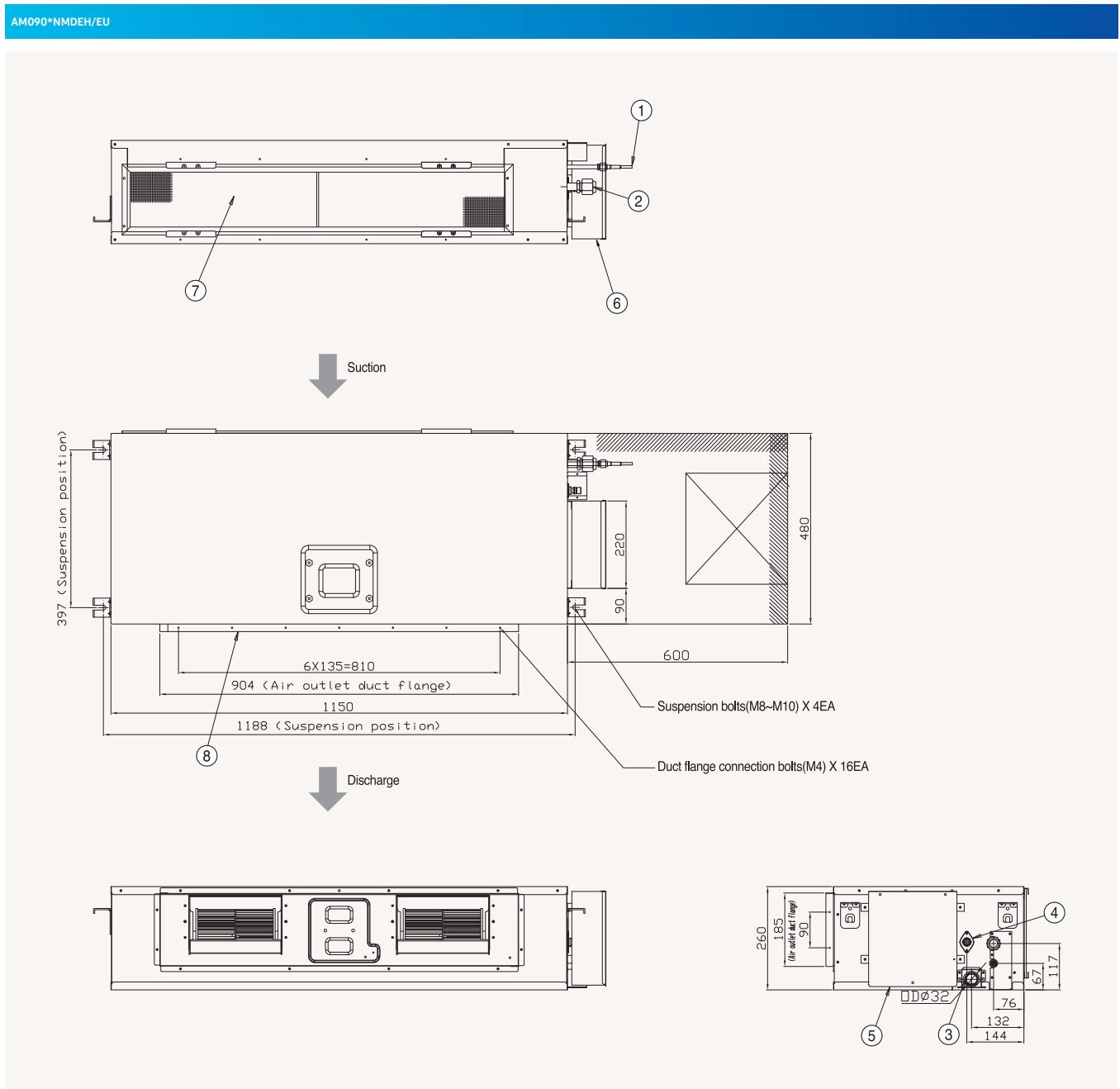


NO	Name	Description		
		4.5 kW	5.6 kW	7.1 kW
1	Liquid pipe connection	ø6.35 Flare		ø9.52 Flare
2	Gas pipe connection	ø12.70 Flare		ø15.88 Flare
3	Drain pipe connection without drain pump		VP25 (OD 32, ID 25)	
4	Drain pipe connection with drain pump		VP25 (OD 32, ID 25)	
5	Control unit			
6	Power supply/communication wiring conduits			
7	Return air side			
8	Air outlet duct flange			

Dimensional drawings

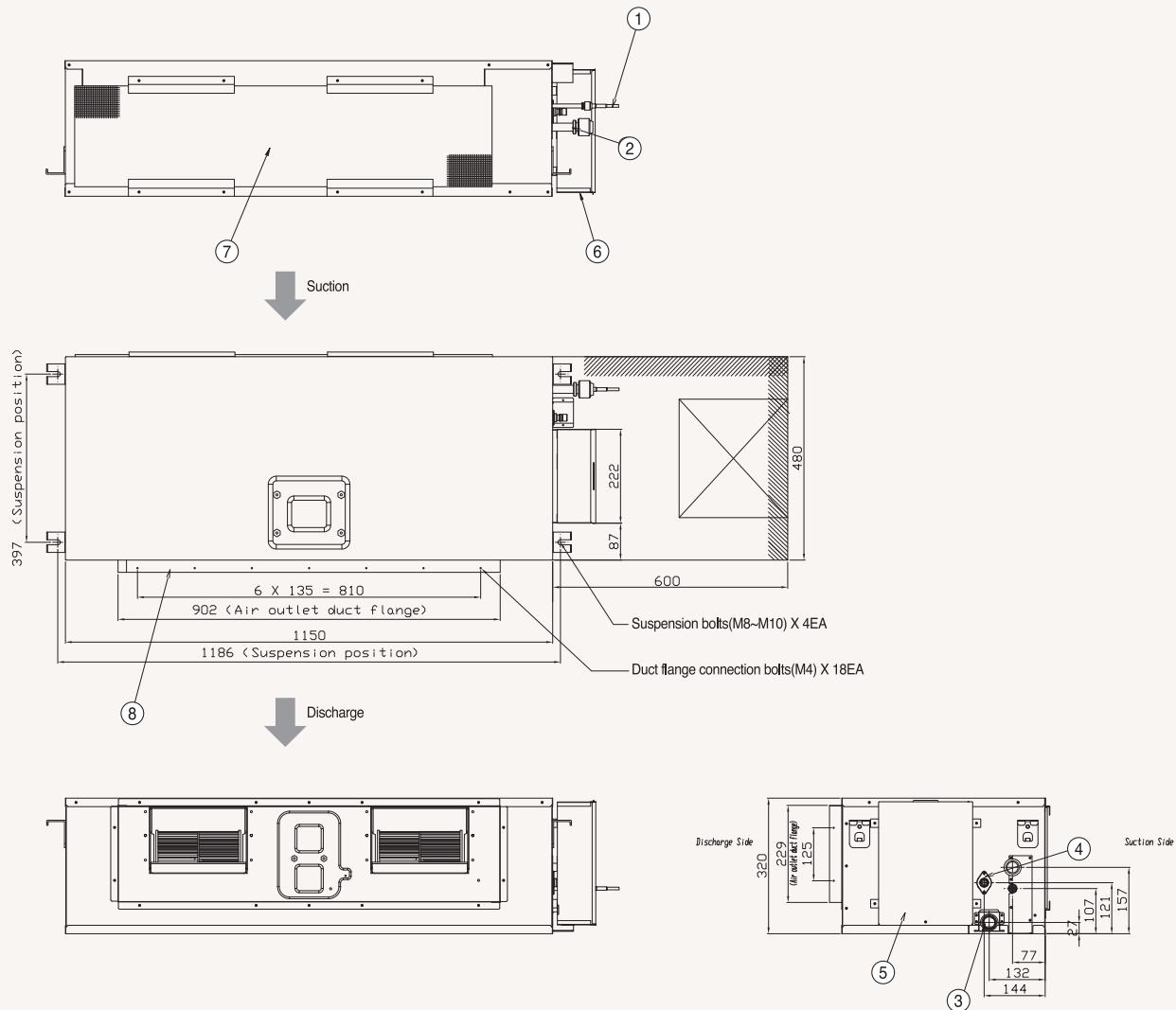
VRF

MSP Duct



NO	Name	Description
1	Liquid pipe connection	ø9.52 Flare
2	Gas pipe connection	ø15.88 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	

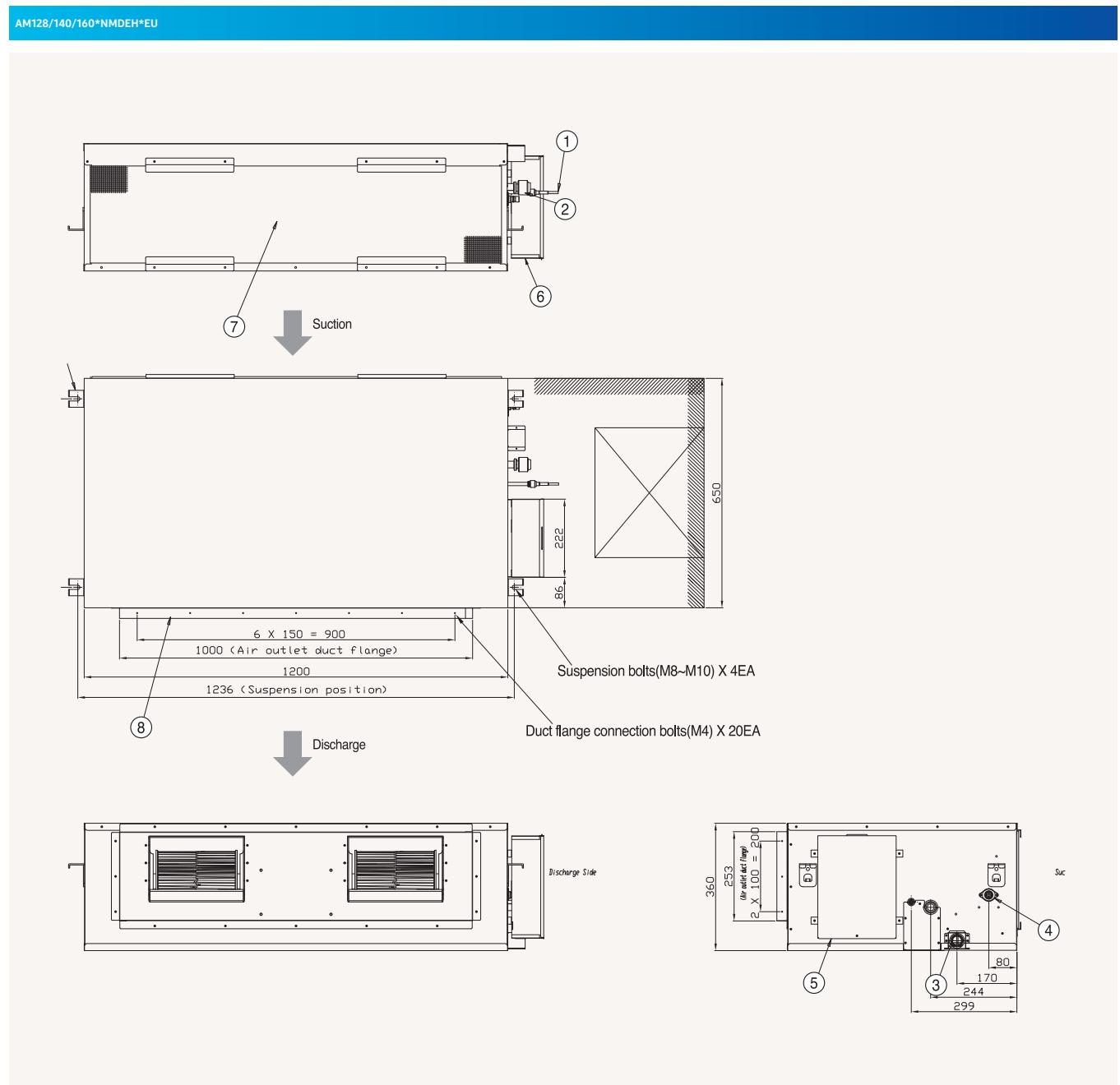
AM112*NMDEH/EU



NO	Name	Description
1	Liquid pipe connection	ø9.52 Flare
2	Gas pipe connection	ø15.88 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	-

Dimensional drawings

MSP Duct



NO	Name	Description
1	Liquid pipe connection	ø9.52 Flare
2	Gas pipe connection	ø15.88 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	



Specifications

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.
- Optional condensate drain pump.
- Long-life HD 40 permanent filter is included.



		Model	AM112FNHDEH/EU	AM128FNHDEH/EU	AM140FNHDEH/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling kW	11.2	12.8	14
		Heating kW	12.5	13.8	16.8
Power	Power Input (Nominal)	Cooling W	510	560	625
		Heating W	510	560	625
	Current Input (Nominal)	Cooling A	3.60	3.75	3.90
		Heating A	3.60	3.75	3.90
Fan	Motor	Type	Sirocco Fan/AC	Sirocco Fan/AC	Sirocco Fan/AC
		Output W	-	-	-
		Number of Fans	2	2	2
	Airflow Rate	H/M/L (UL) m³/min	32/27/23	35/31/26	39/33/28
		I/s	533.33/450.00/383.33	583.33/516.67/466.67	650.00/550.00/466.67
	External Static Pressure	Min/Std/Max mmAq	5.00/10.00/20.00	5.00/10.00/20.00	5.00/10.00/20.00
		Pa	49.00/98.10/196.10	49.00/98.10/196.10	49.00/98.10/196.10
		WG	-	-	-
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	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable		0.75–1.50	0.75–1.50	0.75–1.50
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)		
	Control Method	-	EEV	EEV	EEV
Sound ²	Sound Pressure (H/M/L)	dB(A)	43/41/39	45/43/42	46/45/44
Dimensions	Net Weight kg		57.0	57.0	57.0
	Net Dimensions (W x H x D) mm		1,200 x 360 x 650	1,200 x 360 x 650	1,200 x 360 x 650
Additional Accessories	Drain Pump	Drain Pump	-	Optional/MDP-M075SGU2D	Optional/MDP-M075SGU2D
		Max. Lifting Height/ Displacement mm / litres/h	750/24	750/24	750/24
	Air Filter	-	Long-life Filter	Long-life Filter	Long-life Filter

Accessories



Drain Pump (optional)	Drain Pump (optional)	Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
MDP-M075SGU2D	MDP-M075SGU1D (to be matched with MRK-A10N)	AR-EH03E	MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA

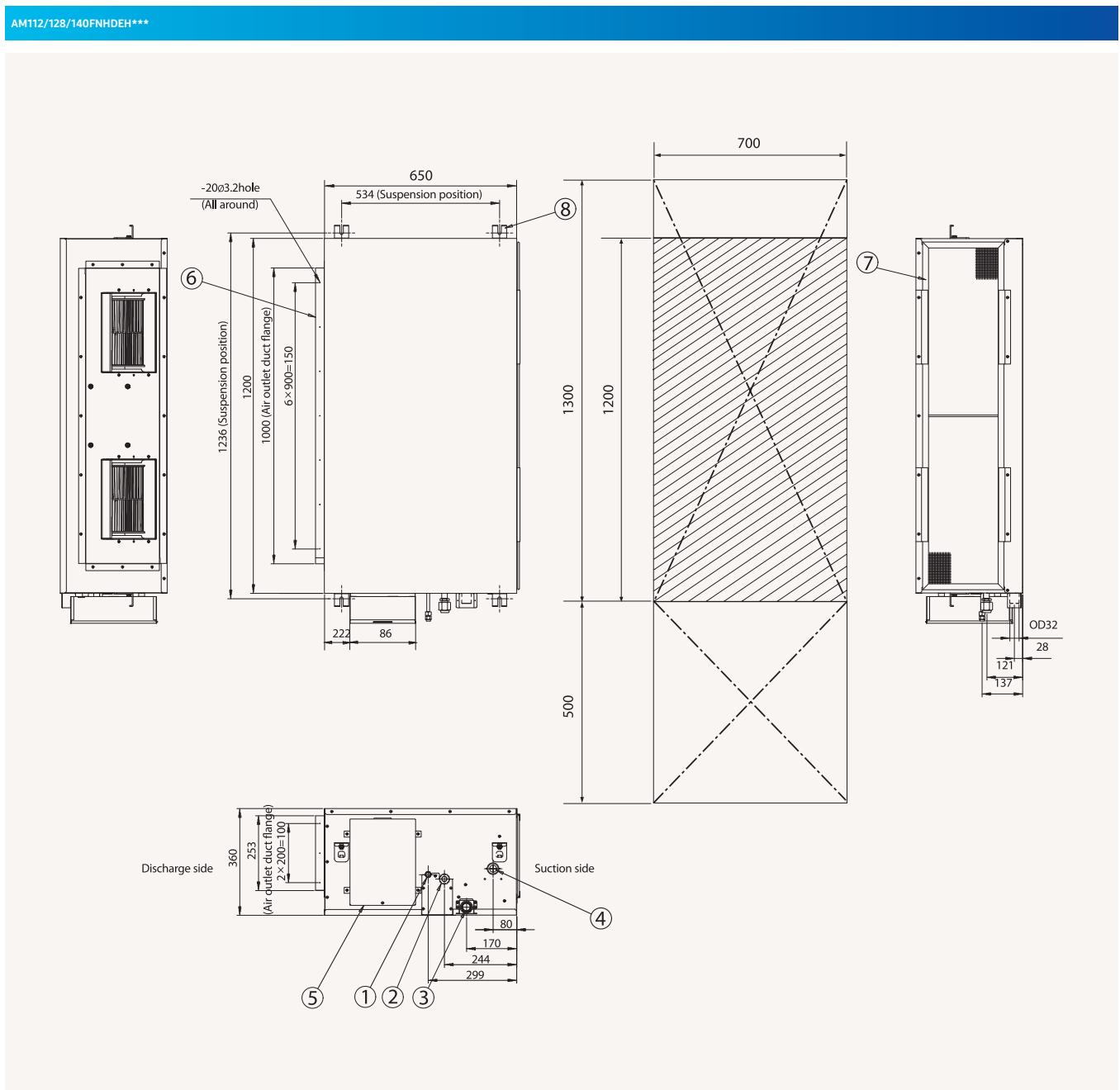


AM220FNHDEH/EU	AM280FNHDEH/EU
1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
22.4	28
25.0	31.5
530	790
530	790
3.80	5.90
3.80	5.90
Sirocco Fan	Sirocco Fan
400	400
1	1
58/52/47	72/65/58
966.67/866.67/783.33	1,200.00/1,083.33/966.67
5.00/15.00/25.00	5.00/15.00/28.00
49.03/147.10/245.17	49.03/147.10/274.59
-	-
9.52	9.52
3/8	3/8
19.05	22.23
3/4	3/4
VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
1.5/2.5	1.5/2.5
0.75-1.50	0.75-1.50
R410A(Fluorinated greenhouse gas, GWP=2,088)	
EEV INCLUDED	EEV INCLUDED
45/43/41	48/46/43
89.0	89.0
1,240 x 470 x 1,040	1,240 x 470 x 1,040
MDP-N047SNC1D	MDP-N047SNC1D
750/24	750/24
-	-

Dimensional drawings

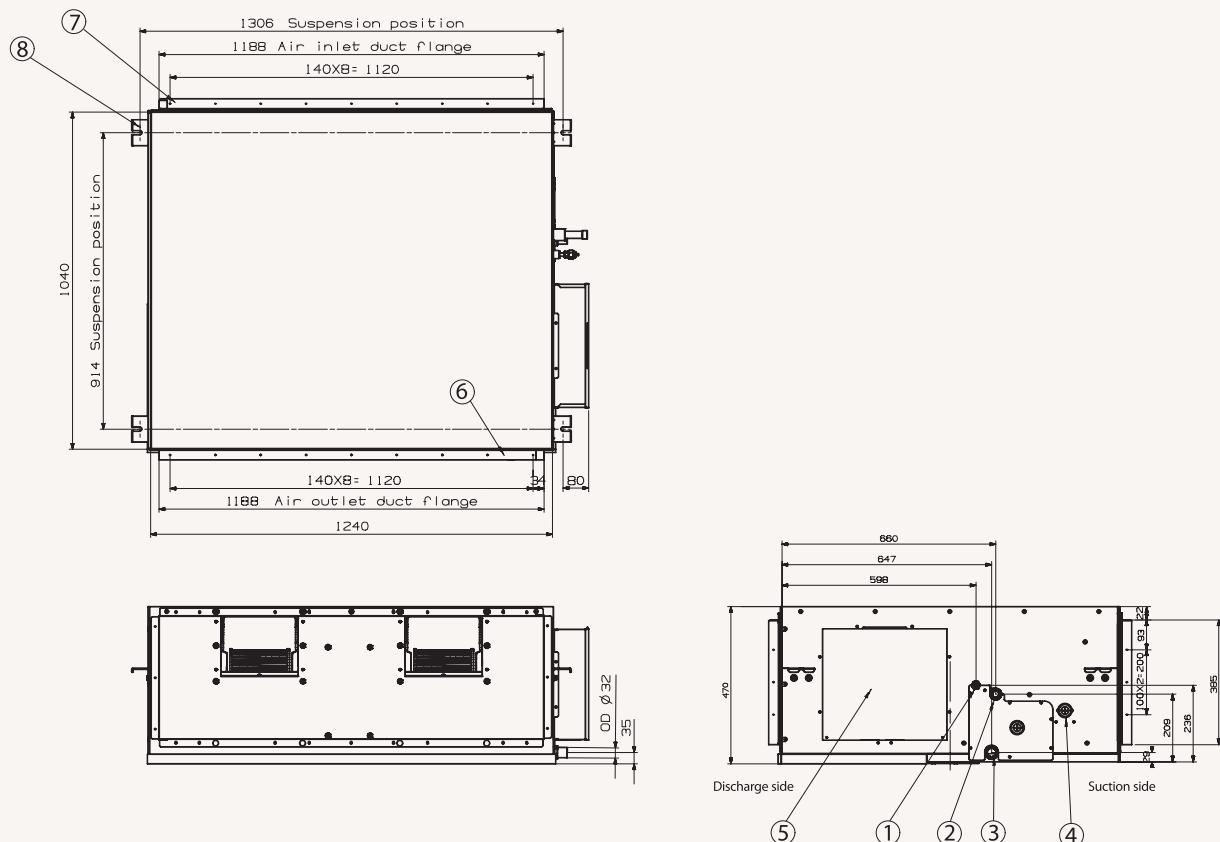
VRF

HSP Duct



NO	Name	Description
1	Liquid pipe connection	ø9.52 (3/8)
2	Gas pipe connection	ø15.88 (5/8)
3	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
4	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
5	Power supply/communication wiring conduits	
6	Air discharge grille flange	
7	Suction flange	
8	Hook	3/8 or M10

AM220/280FNHDEH***



NO	Name	Description
1	Liquid pipe connection	$\varnothing 9.52$ (3/8)
2	Gas pipe connection	AM220***: $\varnothing 19.05$ (3/4), AM280***: $\varnothing 22.22$ (7/8)
3	Drain pipe connection without optional drain pump kits	VP25 (OD 32, ID 25)
4	Drain pipe connection with optional drain pump kits	VP25 (OD 32, ID 25)
5	Power supply/communication wiring conduits	
6	Air discharge grille flange	
7	Suction flange	
8	Hook	3/8 or M10

Specifications

Big Duct

- Equipped with two Sirocco fans direct driven by a single motor.
- Auto Restart function.
- Optional condensate drain pump.



Model		AM180JNHFKH/EU		AM224JNHFKH/EU	
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	
Performance	Capacity (Nominal)	Cooling kW	18	22.4	
		Heating kW	20	25	
Power	Power Input (Nominal)	Cooling W	340	530	
		Heating W	340	530	
	Current Input (Nominal)	Cooling A	1.90	2.90	
		Heating A	1.90	2.90	
Fan	Motor	Type	Sirocco Fan	Sirocco Fan	
	Airflow Rate	Output x n W	630 x 1	630 x 1	
		H/M/L (UL) m³/min	58.00/50.00/43.00	72.00/61.00/50.00	
		I/s	966.67/833.33/716.67	1,200.00/1,016.67/833.33	
	External Static Pressure	Min/Std/Max mmAq	5.00/7.34/20.00	5.00/7.34/20.00	
		Pa	49.00/71.93/196.00	49.00/71.93/196.00	
Piping Connections	Liquid Pipe	ø, mm	9.52	9.52	
		ø, inch	3/8	3/8	
	Gas Pipe	ø, mm	19.05	19.05	
		ø, inch	3/4	3/4	
	Drain Pipe	ø, mm	VP25 (OD 25, ID 20)	VP25 (OD 25, ID 20)	
Field Wiring	Power Source Wire	mm²	-	-	
	Transmission Cable	mm²	0.75~1.50	0.75~1.50	
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)		
	Control Method	-	EEV(O)	EEV(O)	
Sound ²	Sound Pressure (H/M/L)	dB(A)	43/39/35	44/40/36	
Dimensions	Net Weight kg		82.5	82.5	
	Net Dimensions (W x H x D) mm		1,350 x 450 x 910	1,350 x 450 x 910	
Additional Accessories	Drain Pump Internal	-	MDP-G075SP	MDP-G075SP	
	External	-	MDP-G075SQ	MDP-G075SQ	

Accessories

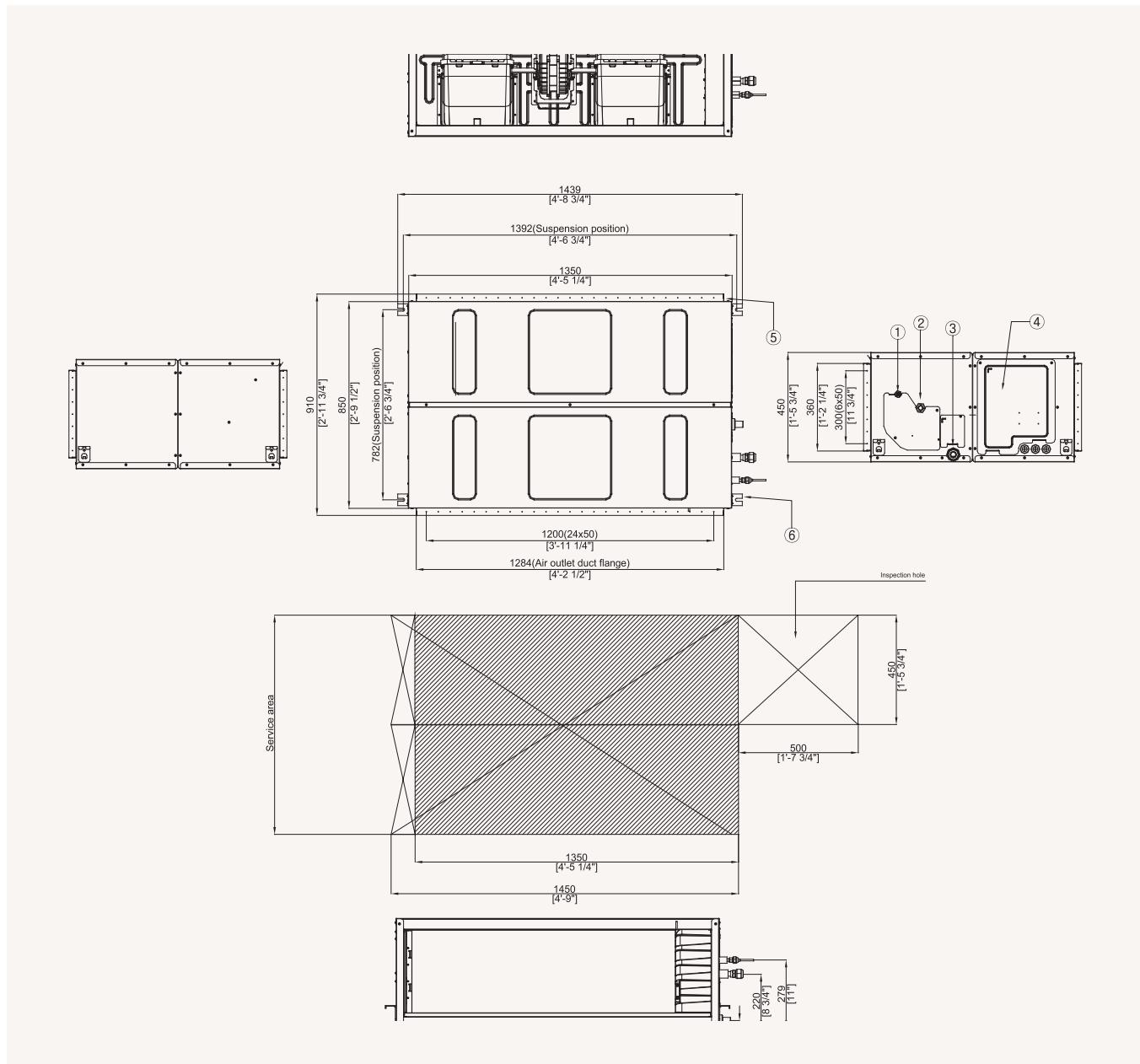


External Drain Pump	Built-in Drain Pump	Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
MDP-G075SP	MDP-G075SQ	AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA

Dimensional drawings

Big Duct

AM180JNHFKH/EU, AM224JNHFKH/EU



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

Specifications

Console

- SPi ioniser for air purification included as standard.
- Slim design: only 199 mm in width.
- Turbo fan with single-phase inverter motor.
- Two separate air outlets to avoid stratification.

- Long-life washable permanent filter.
- Compatible with Wi-Fi Kit controller.
- Auto Restart function.



Model		AM028FNJDEH/EU	AM028FNJDEH/EU	AM036FNJDEH/EU	AM045KNJDEH/EU	AM056FNJDEH/EU	
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	
Performance	Capacity (Nominal)	Cooling kW	2.8	2.8	3.6	4.5	
		Heating	3.2	3.2	4	5	
Power	Power Input (Nominal)	Cooling W	30	30	35	36	
		Heating	30	30	35	36	
	Current Input (Nominal)	Cooling A	0.25	0.25	0.29	0.30	
		Heating	0.25	0.25	0.29	0.49	
Fan	Motor	Type	-	Turbo Fan	Turbo Fan	Turbo Fan	
		Output x n	w	37	37	37 x 1	
		Number of Fans	-	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	
			l/s	116.67/100.00/83.33	116.67/100.00/83.33	141.67/125.00/108.33	
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	12.7	12.7	12.7	12.7	
		ø, inch	1/2	1/2	1/2	1/2	
	Drain Pipe	ø, mm	ID 18 HOSE	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	1.5/2.5	
	Transmission Cable	mm²	0.75–1.50	0.75–1.50	0.75–1.50	0.75–1.50	
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)				
	Control Method	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	
Sound ²	Pressure (H/M/L)	dB(A)	38/36/34	38/36/34	39/37/34	42/39/36	
	Power Cooling		58	58	59	63	
Dimensions	Net Weight	kg	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	
Additional Accessories	Air Filter	-	Long-life Filter	Long-life Filter	Long-life Filter	Long-life Filter	

Accessories

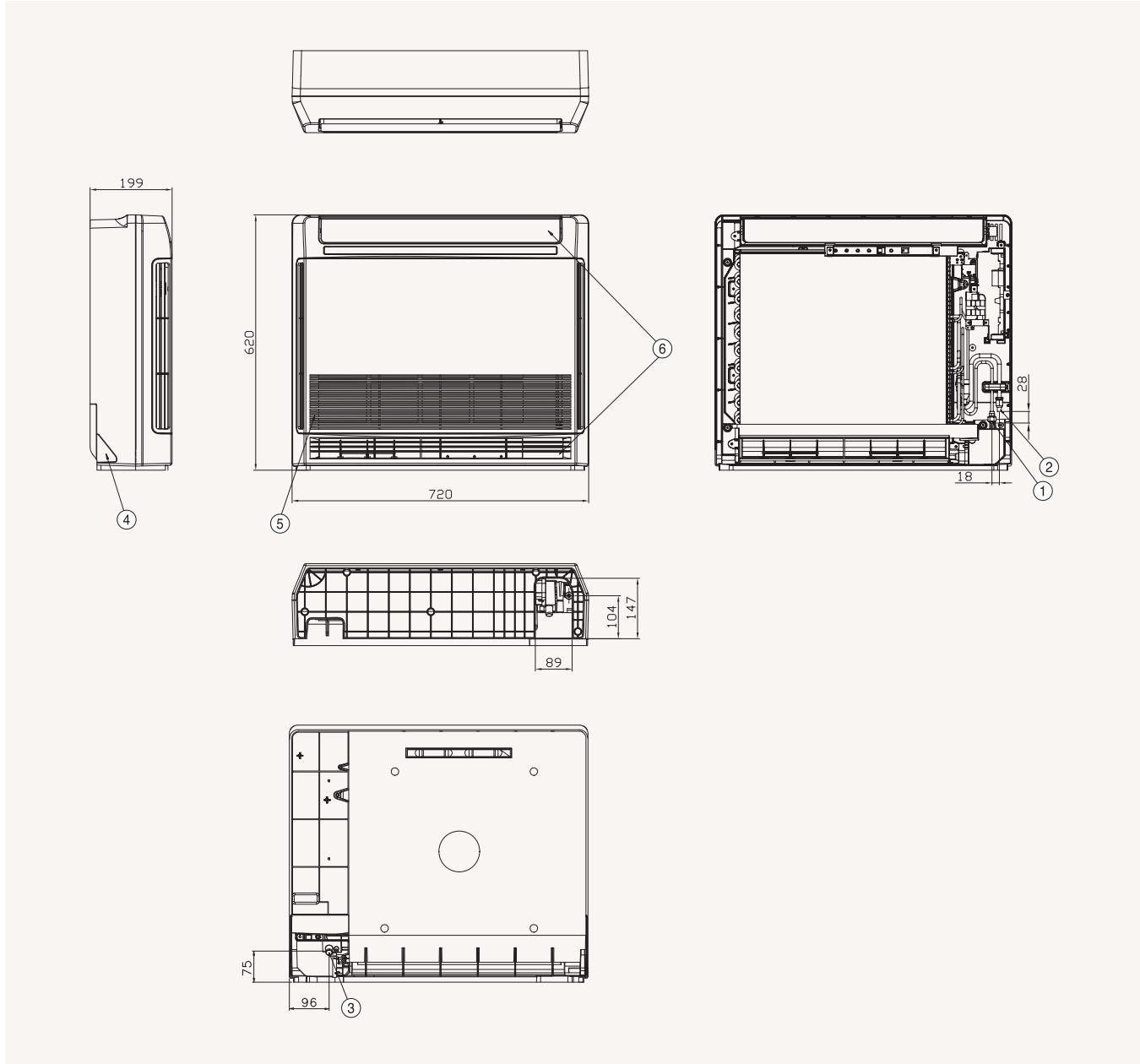


Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	EEV Kit 1 Indoor	EEV Kit 2 Indoor	EEV Kit 3 Indoor
MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRW-TA	MEV-***SA	MXD-E24/32K***A	MXD-E24/32K***A

Dimensional drawings

Console

AM022/045KNJDEH/EU, AM028/036FNJDEH/EU

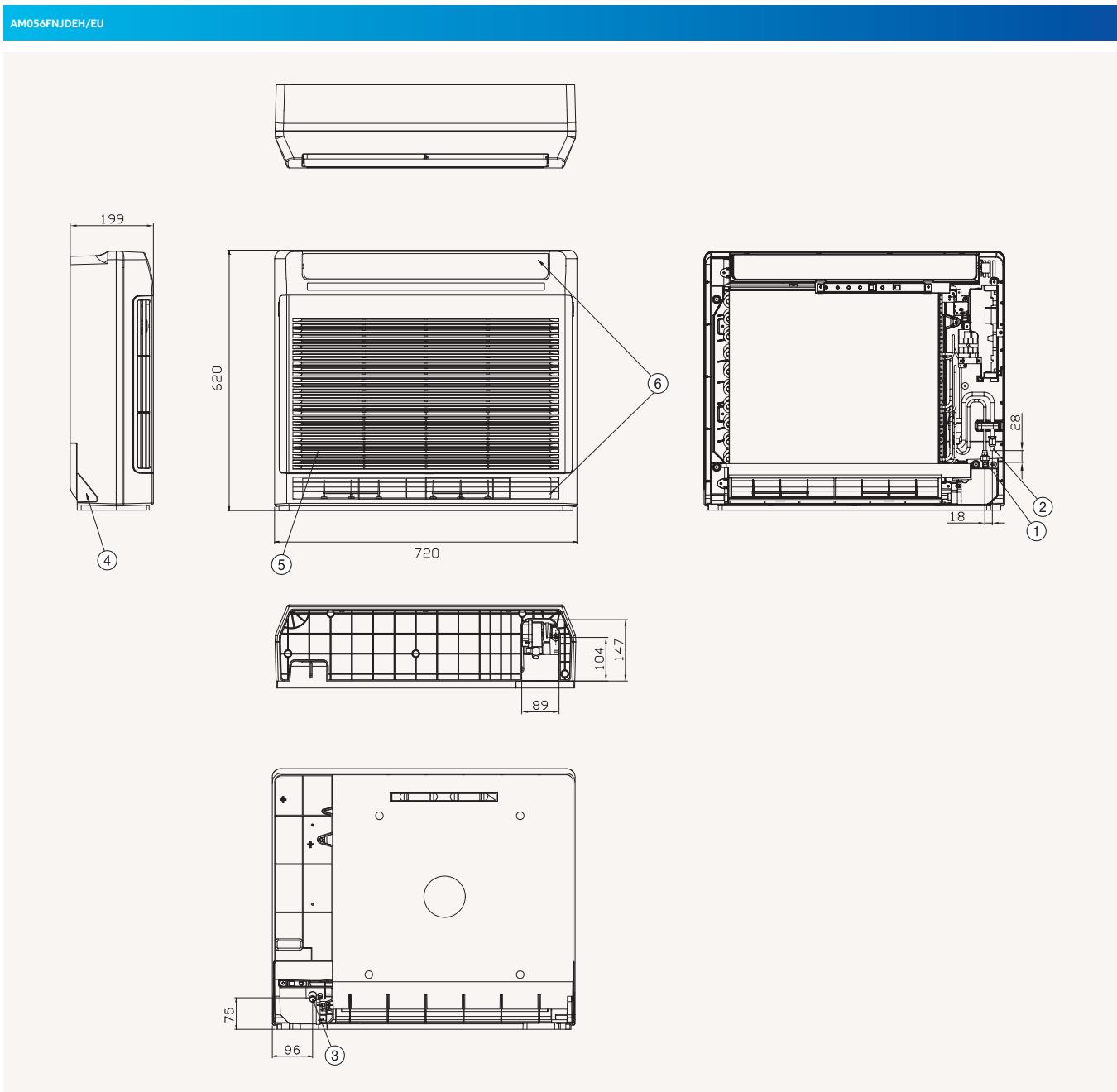


NO	Name	Description
1	Liquid pipe connection	ø6.35 Flare
2	Gas pipe connection	ø12.70 Flare
3	Drain pipe connection	ID18 Hose
4	Power supply/communication wiring conduits	
5	Air inlet grille	
6	Air outlet louvre	

Dimensional drawings

VRF

Console



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



Specifications

Floor/Ceiling

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

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



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

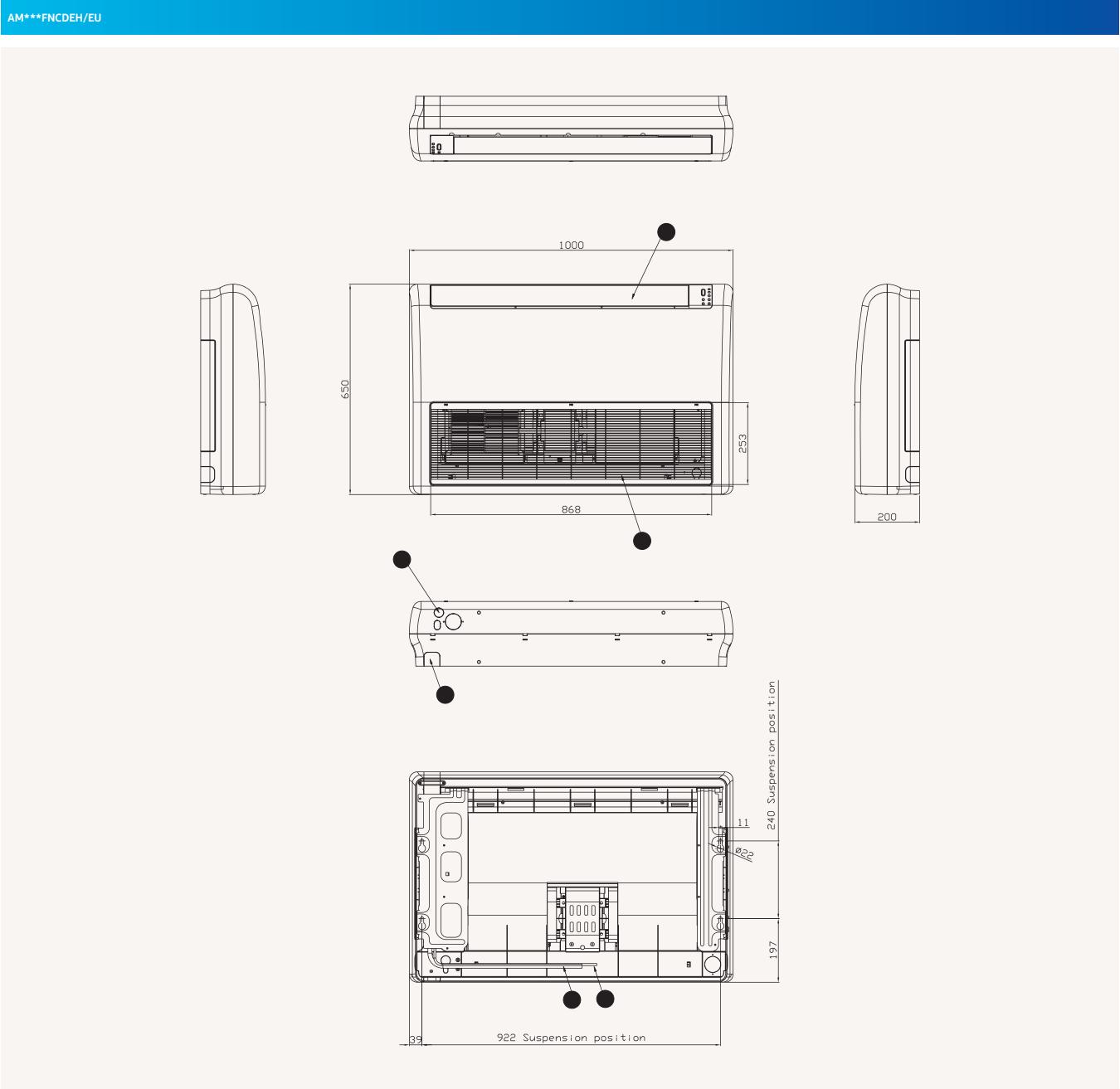
Accessories



Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	EEV Kit 1 Indoor	EEV Kit 2 Indoor	EEV Kit 3 Indoor
MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRW-TA	MEV-**SA	MXD-E24/32K***A	MXD-E24/32K***A

Dimensional drawings

Floor/Ceiling



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

Specifications

Big Ceiling

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



Model			AM112JNCDKH/EU	AM140JNCDKH/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling kW	11.2	14.0
		Heating	12.5	16.0
Power	Power Input (Nominal)	Cooling W	92.0	160.0
		Heating	80.0	160.0
	Current Input (Nominal)	Cooling A	0.94	1.45
		Heating	0.83	1.45
Fan	Motor	Type	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	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)	
	Control Method	-	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure (H/M/L)	dB(A)	45/41/37	46/43/38
	Sound Power Cooling		61	63
Dimensions	Net Weight	kg	33.5	42.5
	Net Dimensions (W x H x D)	mm	1,350 x 235 x 675	1,350 x 235 x 675

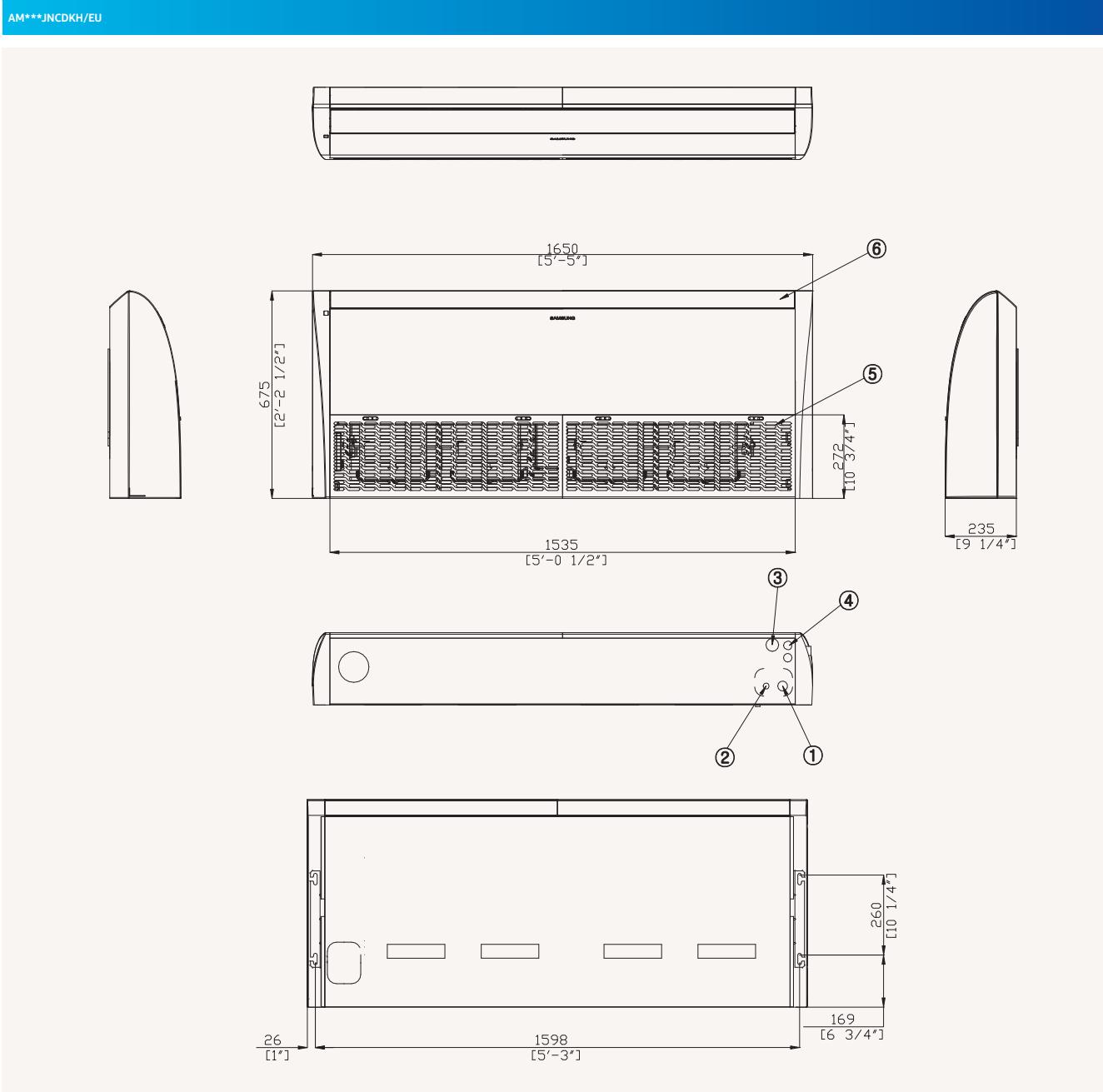
Accessories



Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRW-TA

Dimensional drawings

Big Ceiling



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

Specifications

Concealed Floor-Standing

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



Model		AM036FNFDEH/EU	AM056FNFDEH/EU	AM071FNFDEH/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling kW	3.6	5.6
		Heating	4.0	6.3
Power	Power Input (Nominal)	Cooling W	50	110
		Heating	50	110
	Current Input (Nominal)	Cooling A	0.24	0.53
		Heating	0.24	0.53
Fan	Motor	Type	Sirocco Fan	Sirocco Fan
	Airflow Rate	H/M/L (UL)	m³/min 10.00/8.50/6.00 l/s 166.67/141.67/100.00	15.50/14.00/11.00 258.33/233.33/183.33
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 1.5/2.5
	Transmission Cable		mm² 0.75~1.50	0.75~1.50 0.75~1.50
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)	
	Control Method	-	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure	(H/M/L)	dB(A) 37/32/27	40/36/32 40/36/32
Dimensions	Net Weight		kg 23.0	28.5 28.5
	Net Dimensions (W × H × D)		mm 945 x 600 x 220	1,225 x 600 x 220 1,225 x 600 x 220
Additional Accessories	AirFilter	-	Long-life Filter	Long-life Filter

Accessories

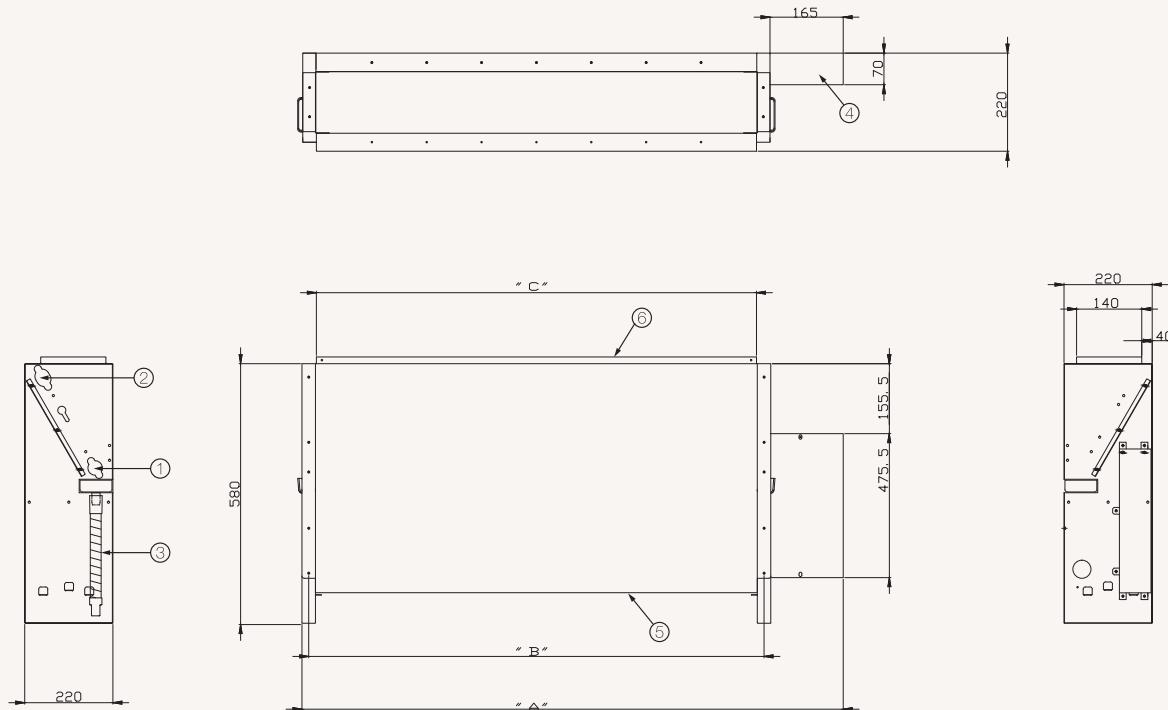


Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRW-TA

Dimensional drawings

Concealed Floor-Standing

AM036/056/071FNFDDEH/**



Model	A	B	C
AM036FNFDDEH/EU	945	730	700
AM056/071FNFDDEH/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
2	Gas pipe connection	ø12.70 Flare
3	Drain pipe connection	ID 18 Hose
4	Power supply/communication wiring conduits	ø9.52 Flare
5	Air inlet grille	ø15.88 Flare
6	Air outlet louvre	

Specifications

Concealed Floor-Standing High Static Pressure

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



Model			AM036MNFDEH/EU	AM056MNFDEH/EU	AM071MNFDEH/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 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 A	0.20	0.37	0.37
		Heating A	0.20	0.37	0.37
Fan	Motor	Type	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output x n W	100 x 1	100 x 1	100 x 1
	External Static Pressure	Min/Std/Max mmAq	0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00
		Min/Std/Max Pa	0.00/29.40/58.90	0.00/29.40/58.90	0.00/29.40/58.90
	Airflow Rate	(H/M/L) m³/h	600/510/360	930/840/660	930/840/660
Piping Connections	Liquid Pipe	ø, mm	6.35	6.35	9.52
		ø, inch	1/4	1/4	3/8
	Gas Pipe	ø, mm	12.70	12.70	15.88
		ø, inch	1/2	1/2	5/8
	Drain Pipe	ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire	mm²	1.5–2.5	1.5–2.5	1.5–2.5
	Transmission Cable	mm²	0.75–1.50	0.75–1.50	0.75–1.50
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)		
	GWP	-	2.088	2.088	2.088
	Control Method	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure (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
Additional Accessories	AirFilter	-	Long-life Filter	Long-life Filter	Long-life Filter

Accessories

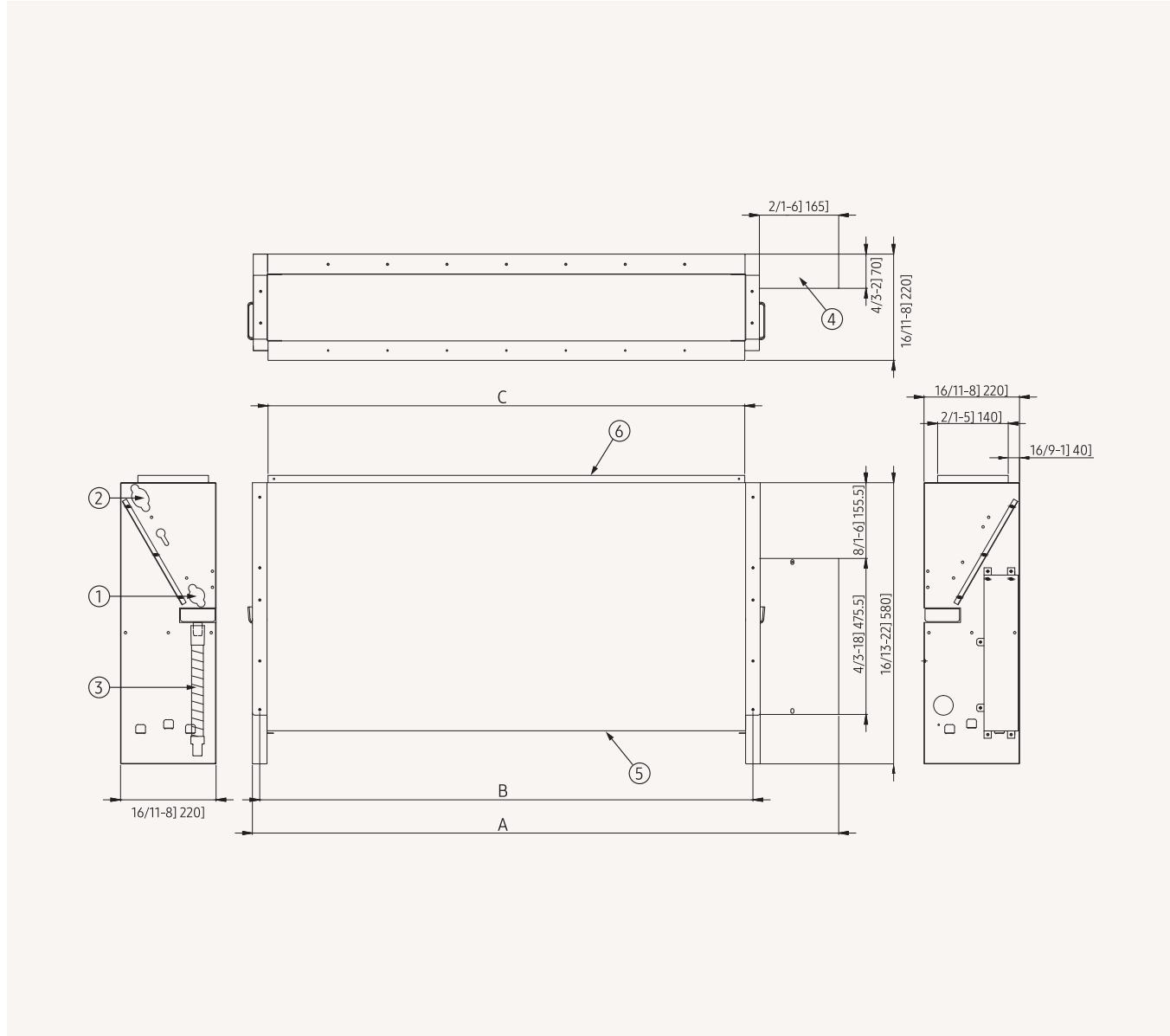


Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRW-TA

Dimensional drawings

Concealed Floor-Standing High Static Pressure

AM036/056/071MNFDDEH/**



Model	A	B	C
AM036MNFDDEH/EU	945	730	700
AM056/071MNFDDEH/EU	1,225	1,010	980

NO	Name	Description
		3.6 kW
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	ø6.35 Flare
5	Air inlet grille	ø12.70 Flare
6	Air outlet louvre	ø9.52 Flare

Specifications

Packaged Floor-Standing

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



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

Accessories

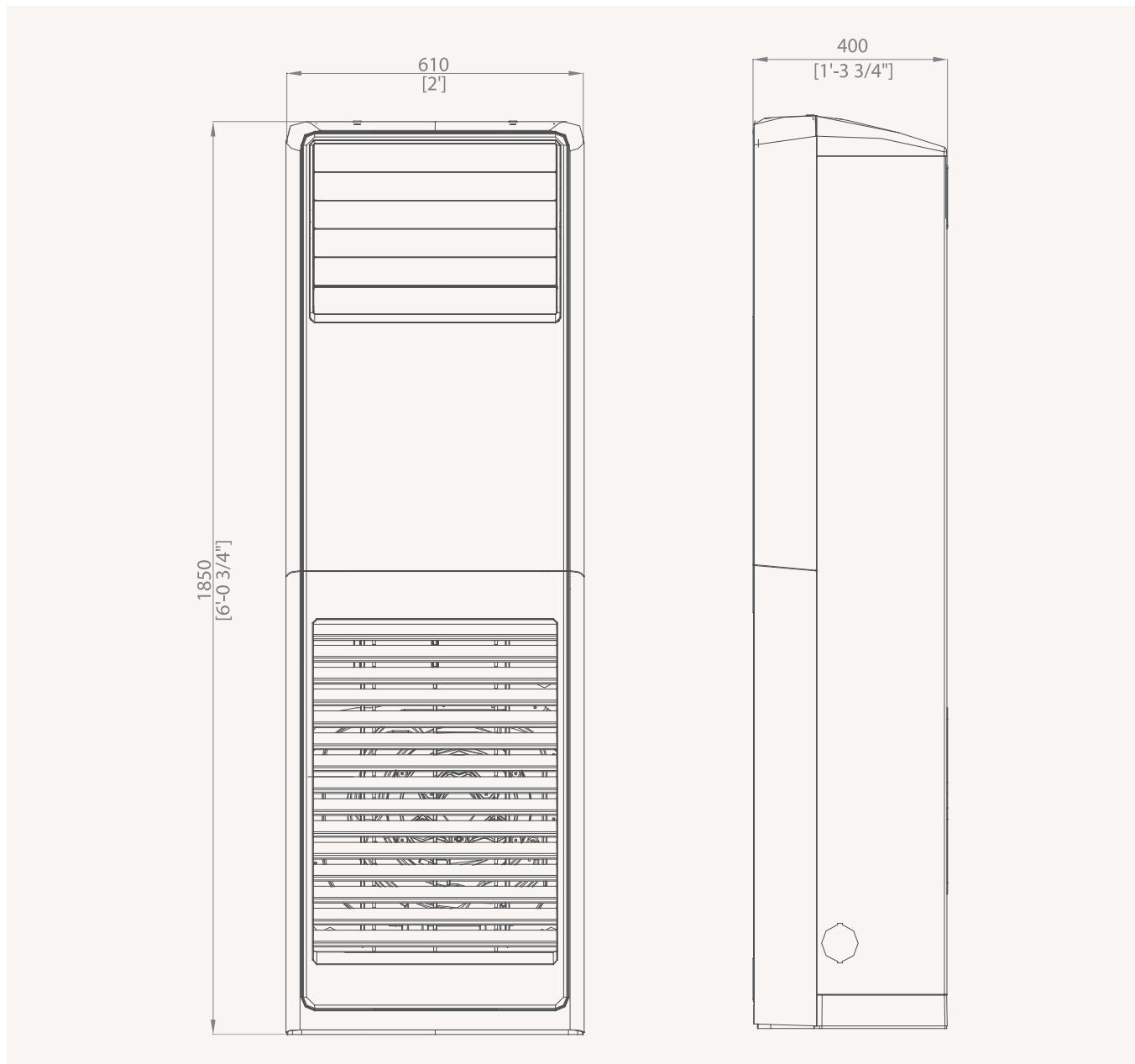


Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRW-TA

Dimensional drawings

Packaged Floor-Standing

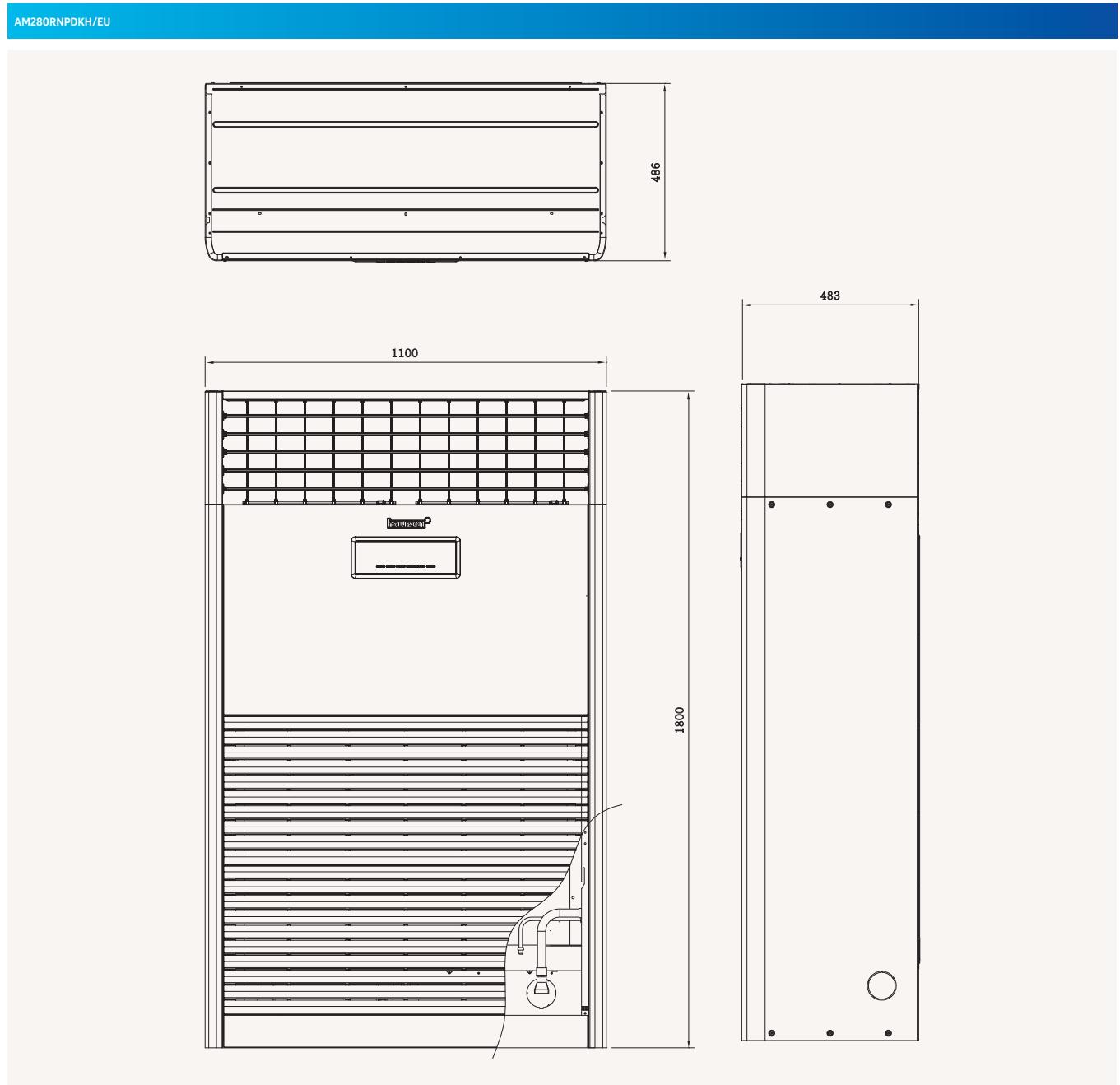
AM140RNPDKH/EU



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

Dimensional drawings

Packaged Floor-Standing



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



Specifications

Boracay Wall-Mounted (EEV excluded)

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



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

Accessories



Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor	EEV Kit 1 Indoor	EEV Kit 2 Indoor	EEV Kit 3 Indoor
AR-EH03E	MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRW-TA	MEV-***SA	MXD-E24/32K***A	MXD-E24/32K**A

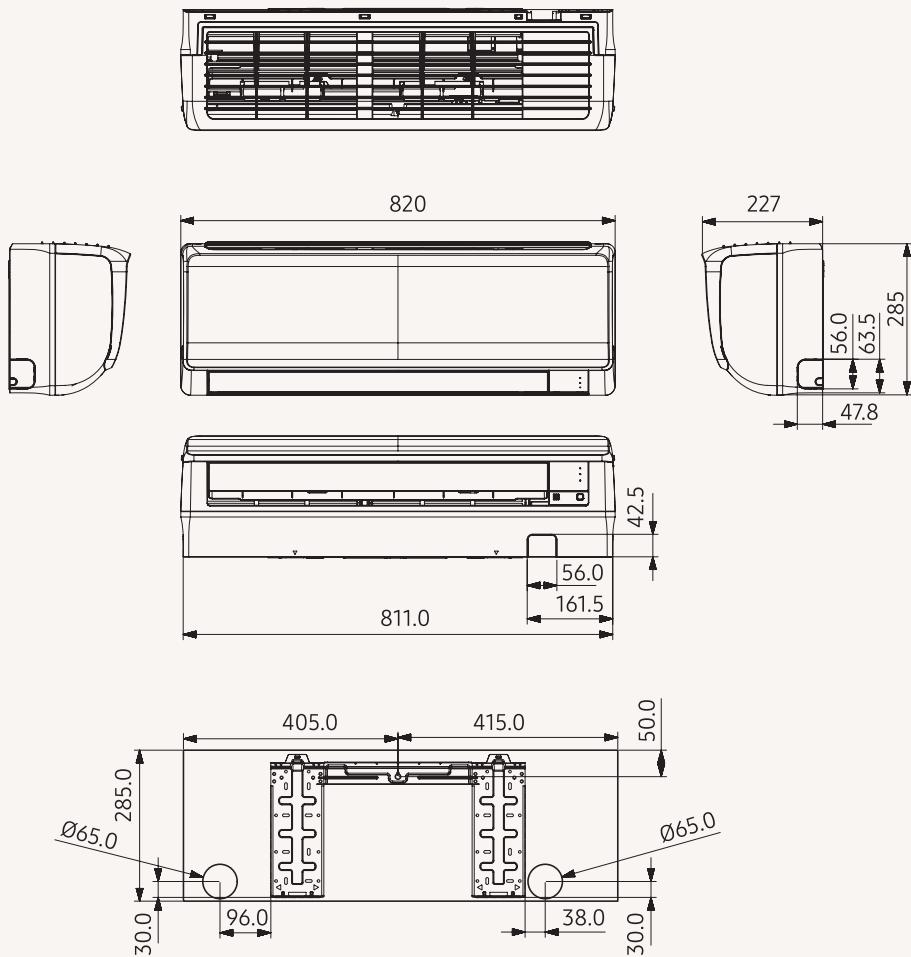


AM036KNTDEH/EU	AM045KNTDEH/EU	AM056KNTDEH/EU	AM071KNTDEH/EU
1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
3.6	4.5	5.6	6.8
4.0	5.0	6.3	7.0
42.0	47.0	48.0	51.0
42.0	47.0	48.0	53.0
0.23	0.27	0.27	0.28
0.23	0.27	0.27	0.28
0.4	0.4	0.4	0.4
15.0	15.0	15.0	15.0
Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
1	1	1	1
8.5/7.5/6.6	13.9/12.4/11.2	14.4/12.9/11.2	15.7/14.1/12.9
141.7/125.0/110.0	231.7/206.7/186.7	240.0/215.0/186.7	261.7/235.0/215.0
SSR Feedback	SSR Feedback	SSR Feedback	SSR Feedback
19 x 1	28 x 1	28 x 1	28 x 1
6.35	6.35	6.35	9.52
1/4	1/4	1/4	3/8
12.7	6.35	6.35	9.52
1/2	1/2	1/2	5/8
ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
1.5	1.5	1.5	1.5
0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2
R410A(Fluorinated greenhouse gas, GWP=2,088)			
EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
36/33/29	38/35/33	39/36/33	40/38/35
51	53	53	55
8.5	12.0	12.0	12.0
820 x 285 x 227	1,065 x 298 x 243	1,065 x 298 x 243	1,065 x 298 x 243

Dimensional drawings

Boracay Wall-Mounted (EEV excluded)

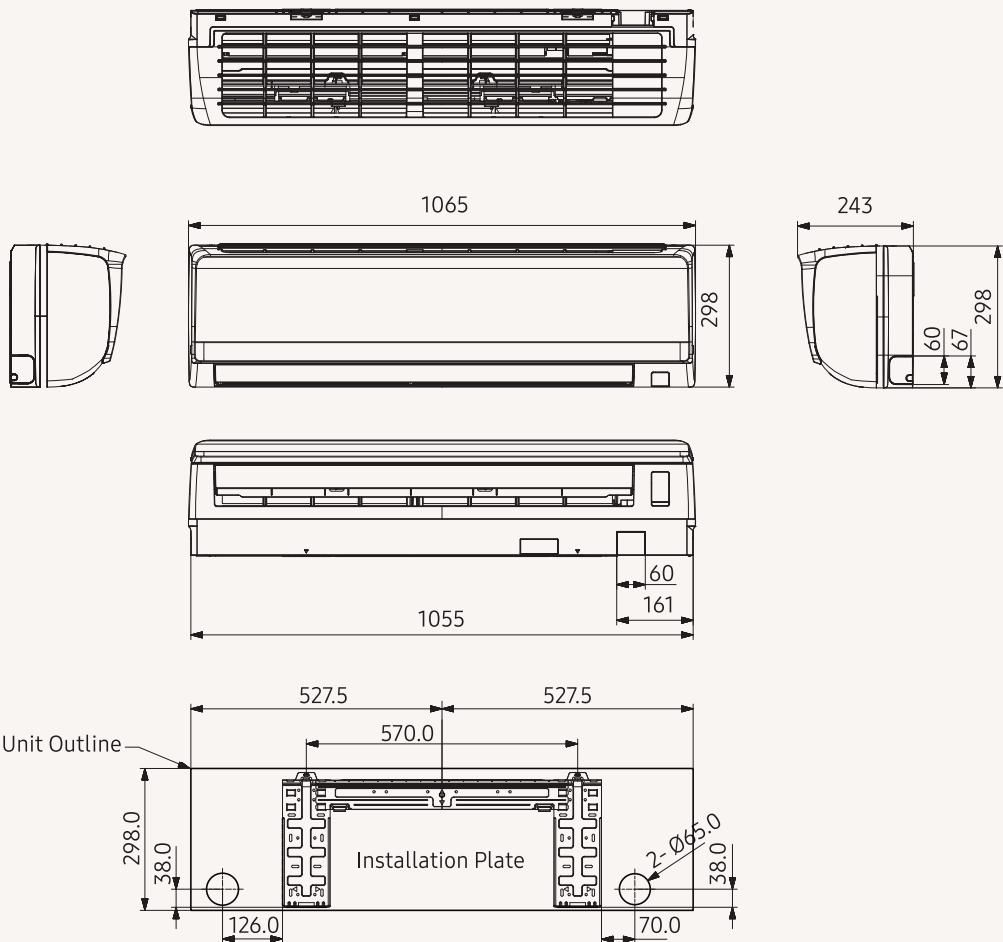
AM015/022/028/036KNTD***



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

AM045/056/071KNTD*****

VRF



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

Specifications

Boracay Wall-Mounted (EEV included)

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



Model			AM015KNQDEH/EU	AM022KNQDEH/EU	AM028KNQDEH/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
Performance	Cooling	kW	1.5	2.2	2.8
	Heating	kW	1.7	2.5	3.2
Power	Cooling	W	32.0	32.0	38.0
	Heating		34.0	35.0	39.0
Power Input (Nominal)	Cooling	A	0.20	0.20	0.22
	Heating		0.20	0.20	0.22
Current Input (Nominal)	MCA		0.3	0.3	0.4
	MFA		15.0	15.0	15.0
Fan	Type	-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Number of Fans	-	1	1	1
	Airflow Rate	H/M/L (UL)	m³/min	6.2/5.7/5.1	6.6/5.7/5.1
			l/s	103.3/95.0/85.0	110.0/95.0/85.0
Fan motor	Type	-	SSR Feedback	SSR Feedback	SSR Feedback
	Output x n	W	19 x 1	19 x 1	19 x 1
Piping Connections	Liquid Pipe	ø, mm	6.35	6.35	6.35
		ø, inch	1/4	1/4	1/4
	Gas Pipe	ø, mm	12.7	12.7	12.7
		ø, inch	1/2	1/2	1/2
	Drain Pipe	ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
	Heat Insulation	-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Field Wiring	Power Source Wire	Minimum	mm²	1.5	1.5
	For connection with indoor	Minimum	mm²	0.75	0.75
		Remark	-	F1, F2	F1, F2
Refrigerant	Type	-		R410A(Fluorinated greenhouse gas, GWP=2,088)	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound ²	Sound Pressure	H/M/L	dB(A)	30/28/25	31/28/25
	Sound Power	Cooling		47	48
Dimensions	Net Weight	kg		8.5	8.5
	Net Dimensions (W x H x D)	mm		820 x 285 x 227	820 x 285 x 227
					9.0
					820 x 285 x 227

Accessories

Wireless Remote Controller AR-EH03E	Touch Controller MWR-SH11N	Wired Remote Controller MWR-WE13N	Wired Remote Controller MWR-WG00*N	Wi-Fi Kit MIM-H04EN	External Room Sensor MRW-TA

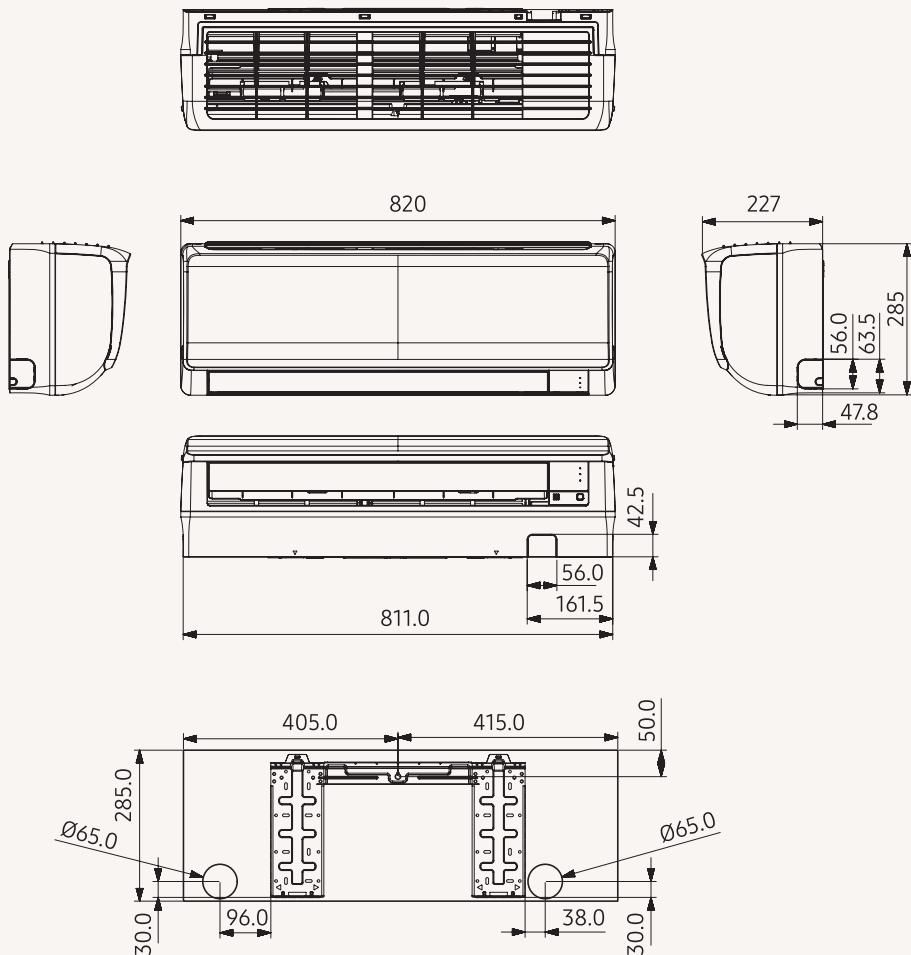


AM036KNQDEH/EU	AM045KNQDEH/EU	AM056KNQDEH/EU	AM071KNQDEH/EU
1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
3.6	4.5	5.6	6.8
4.0	5.0	6.3	7.0
42.0	47.0	48.0	51.0
42.0	47.0	48.0	53.0
0.23	0.27	0.27	0.28
0.23	0.27	0.27	0.28
0.4	0.4	0.4	0.4
15.0	15.0	15.0	15.0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

Dimensional drawings

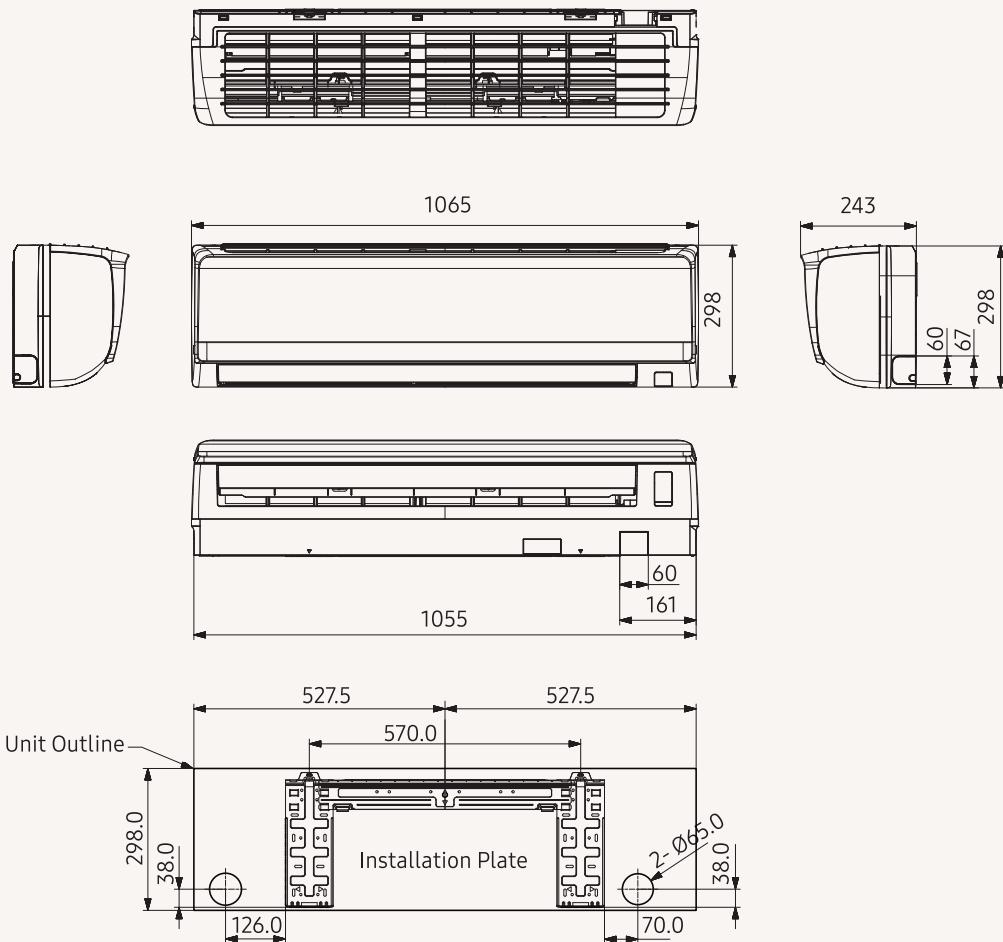
Boracay Wall-Mounted (EEV included)

AM015/022/028/036KNQD****



NO	Name	Description
1	Liquid pipe connection	$\varnothing 6.35$ (1/4)
2	Gas pipe connection	$\varnothing 12.70$ (1/2)
3	Drain pipe connection	ID 18 HOSE
4	Power supply/communication wiring conduits	-

AM045/056/071KNQD****



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

Specifications

Wind-Free™ Deluxe (EEV included)

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

VRF



			AM015TNVDKH/EU	AM022TNVDKH/EU	AM028TNVDKH/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz
Performance	Capacity (Nominal)	Cooling kW	1.5	2.2	2.8
		Heating	1.7	2.5	3.2
Power	Capacity (Nominal)	Cooling W	20	24	30
		Heating	20	24	30
	Current Input (Nominal)	Cooling A	0.13	0.16	0.20
		Heating	0.13	0.16	0.20
Fan	Motor	Type	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
			81.7/75.0/68.3 l/s	95.0/83.3/75.0	141.7/128.3/115.0
Piping	Liquid Pipe	ø, mm	6.35	6.35	6.35
Connections		ø, inch	1/4	1/4	1/4
	Gas Pipe	ø, mm	12.70	12.70	12.70
		ø, inch	1/2	1/2	1/2
	Drain Pipe	ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire	mm²	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable	mm²	0.75~1.50	0.75~1.50	0.75~1.50
Refrigerant	Type	-	R410A (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 (Wind-Free™)	34/32/30/27 (Wind-Free™)	34/33/32/26 (Wind-Free™)
	Sound Power	Cooling	50	51	52
Dimensions	Net Weight	kg	9.0	9.0	9.5
	Net Dimensions (WxHxD)	mm	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215

Accessories



Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit
AR-EH03E	MWR-SH1IN	MWR-WG00*N	MWR-WE13N	MIM-H04EN

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

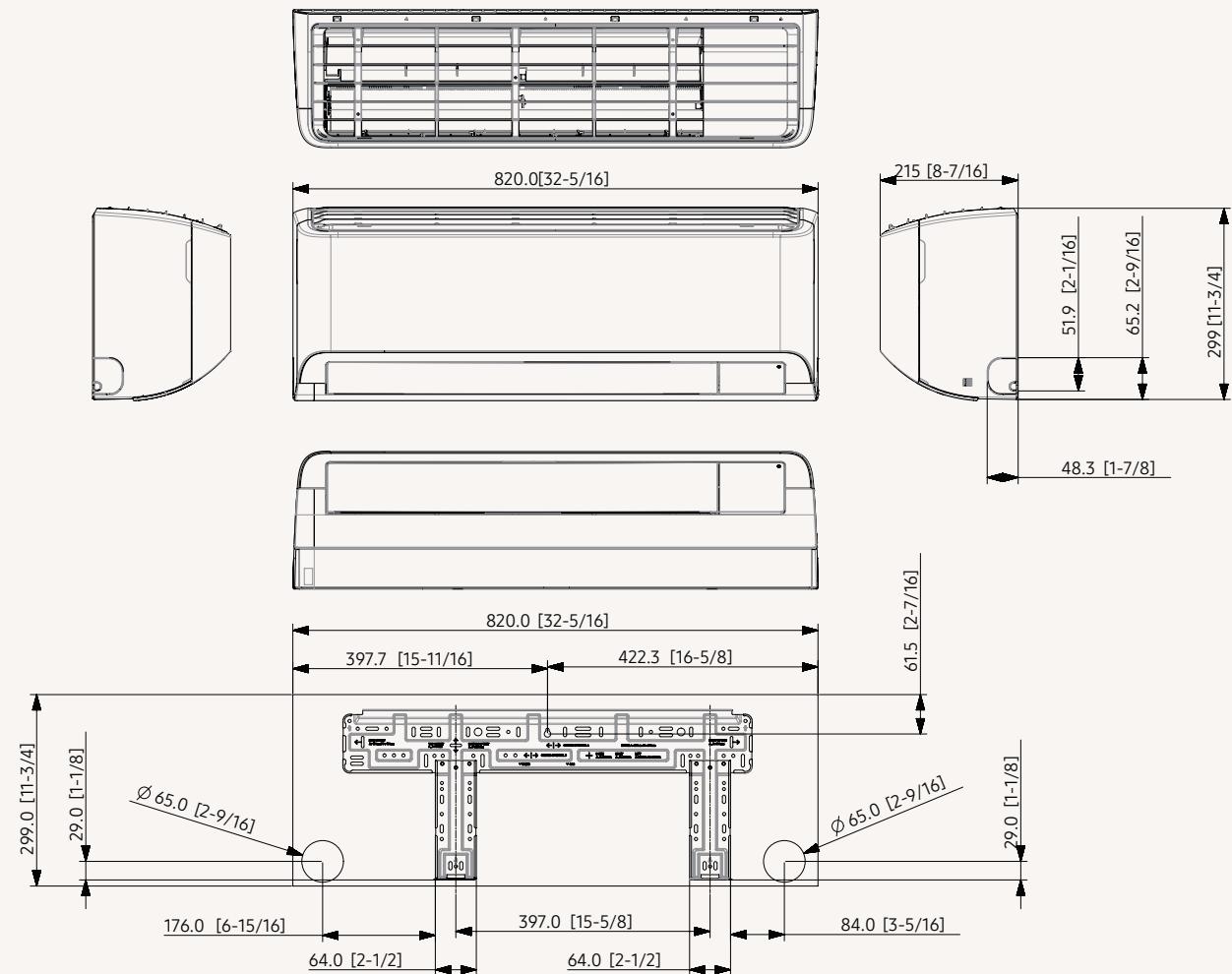


AM036TNVDKH/EU	AM045TNVDKH/EU	AM056TNVDKH/EU	AM071TNVDKH/EU	AM082TNVDKH/EU
1Φ, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz
3.6	4.5	5.6	6.8	8.2
4.0	5.0	6.3	7.0	8.5
37	40	52	60	65
37	40	52	60	65
0.25	0.27	0.35	0.40	0.43
0.25	0.27	0.35	0.40	0.43
Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
27 x 1	27 x 1	27 x 1	27 x 1	27 x 1
10.3/9.1/8.3	12.5/11.4/10.5	15.7/13.8/12.0	16.8/15.0/13.2	17.5/15.6/13.8
171.7/151.7/138.3	208.3/190.0/175.0	261.7/230.0/200.0	280.0/250.0/220.0	291.7/260.0/230.0
6.35	6.35	6.35	9.52	9.52
1/4	1/4	1/4	3/8	3/8
12.70	12.70	12.70	15.88	15.88
1/2	1/2	1/2	5/8	5/8
ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
R410A (Fluorinated greenhouse gas, GWP = 2,088)				
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
40/36/34/26 (Wind-Free™)	37/34/33/29 (Wind-Free™)	40/37/34/29 (Wind-Free™)	43/40/37/29 (Wind-Free™)	46/45/43/30 (Wind-Free™)
56	55	58	62	64
9.5	12.0	12.0	12.0	13.0
820 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215

Dimensional drawings

Wind-Free™ Deluxe (EEV included)

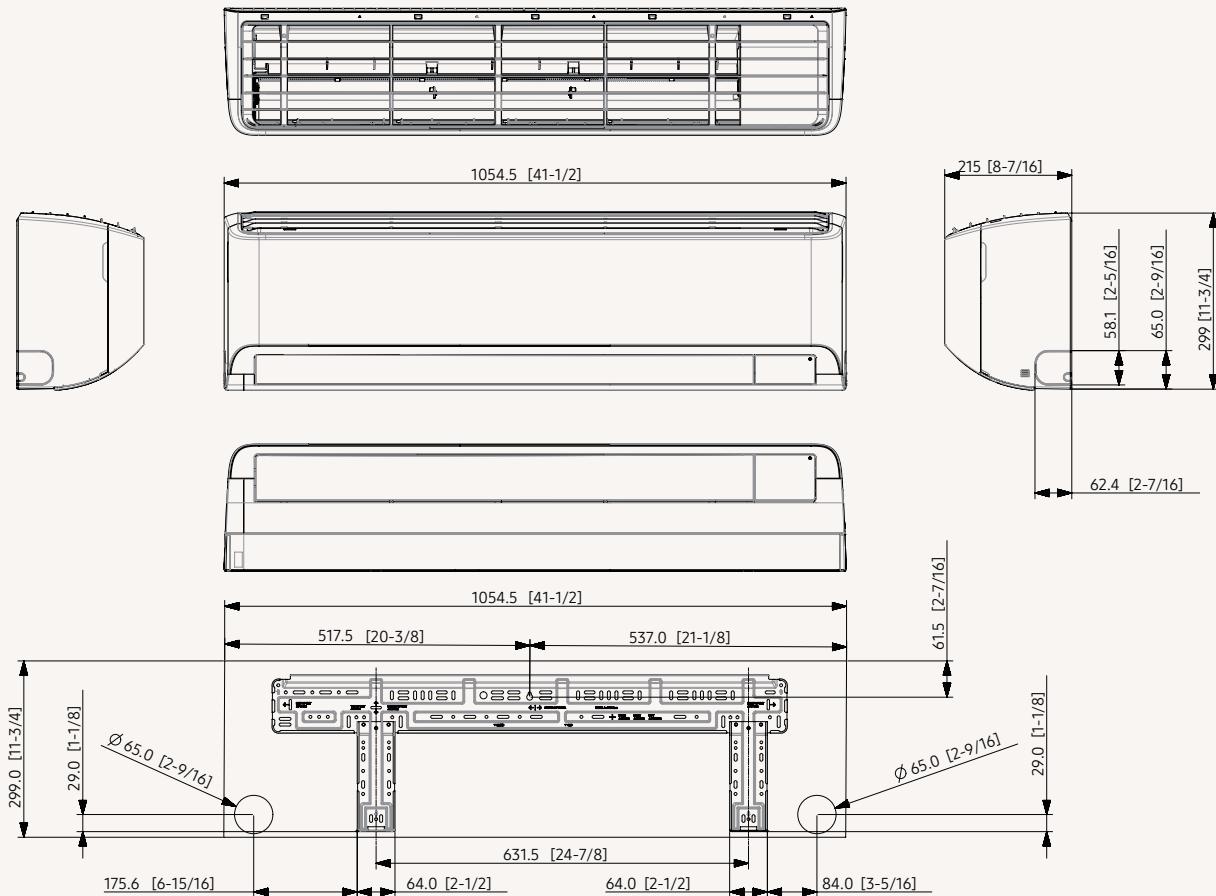
AM015TNVDKH/EU AM022TNVDKH/EU AM028TNVDKH/EU AM036TNVDKH/EU



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

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

VRF



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	ID18 Hose

Specifications

Wind-Free™ Deluxe (EEV excluded)

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

VRF



			AM015TNADKH/EU	AM022TNADKH/EU	AM028TNADKH/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220~240 V, 50/60 Hz		1Φ, 2, 220~240 V, 50/60 Hz
Performance	Capacity (Nominal)	Cooling	kW	1.5	2.2
		Heating		1.7	2.5
Power	Capacity (Nominal)	Cooling	W	20	24
		Heating		20	24
	Current Input (Nominal)	Cooling	A	0.13	0.16
		Heating		0.13	0.16
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan
		Output	W	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
			l/s	81.7/75.0/68.3	95.0/83.3/75.0
Piping	Liquid Pipe		ø, mm	6.35	6.35
	ø, inch			1/4	1/4
Connections	Gas Pipe		ø, mm	12.70	12.70
	ø, inch			1/2	1/2
Drain Pipe		ø, mm	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
Field Wiring	Power Source Wire	mm²	1.5/2.5	1.5/2.5	1.5/2.5
	Transmission Cable	mm²	0.75~1.50	0.75~1.50	0.75~1.50
Refrigerant		Type	-	R410A (Fluorinated greenhouse gas, GWP = 2,088)	
Control Method ¹		-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure ²	(H/M/L)	dB(A)	31/30/27/26 (Wind-Free™)	34/32/30/27 (Wind-Free™)
	Sound Power	Cooling		50	51
Dimensions	Net Weight	kg		8.5	8.5
	Net Dimensions (WxHxD)	mm		820 x 299 x 215	820 x 299 x 215

Accessories



Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	EEV Kit 1 Indoor	EEV Kit 2 Indoor	EEV Kit 3 Indoor
AR-EH03E	MWR-SH11N	MWR-WG00*N	MWR-WE13N	MIM-H04EN	MEV-***SA	MXD-E24/32K***A	MXD-E24/32K***A

¹EEV Kit is necessary to control the refrigerant flow in the Wind-Free™ Deluxe (EEV Excluded), please order EEV Kit separately.

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

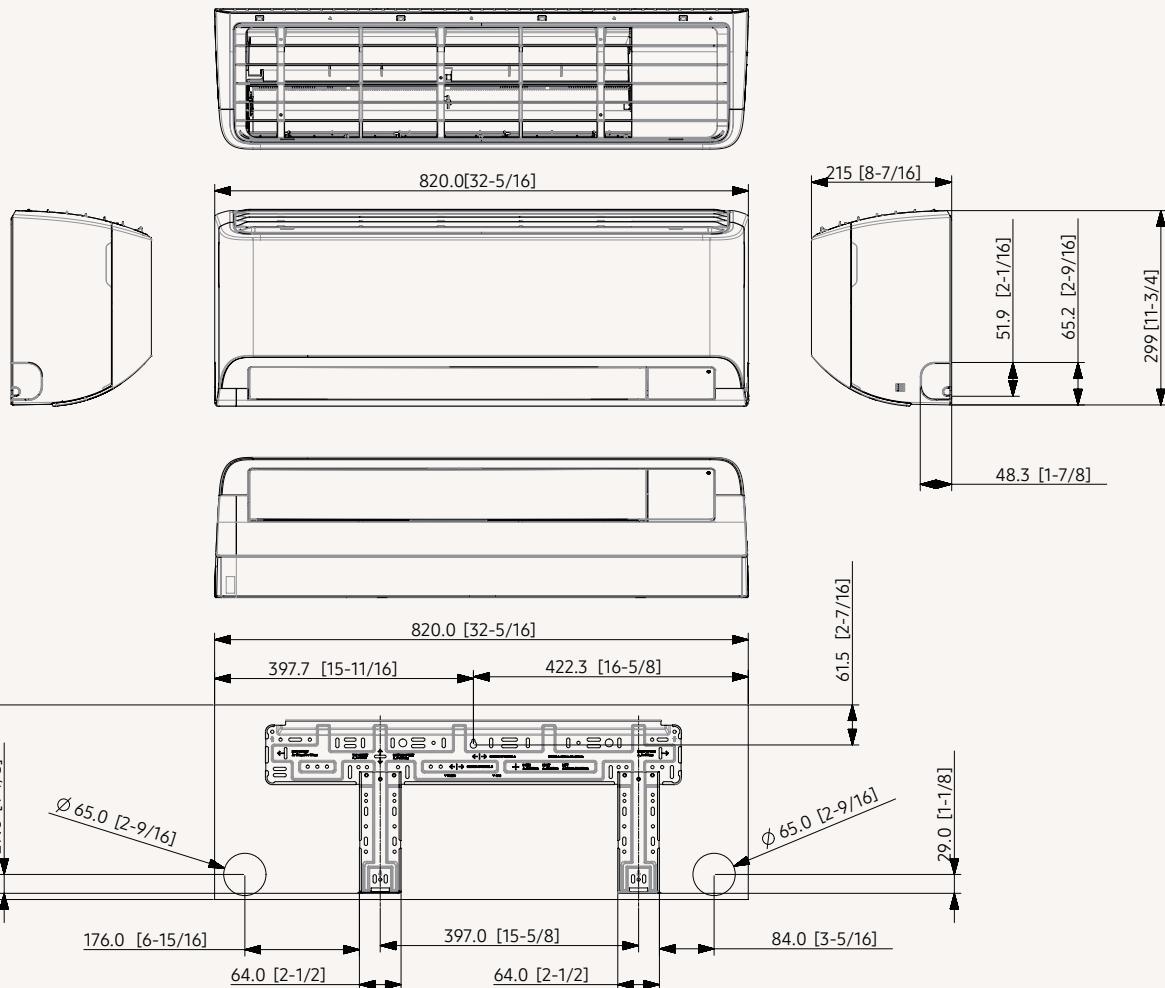


AM036TNADKH/EU	AM045TNADKH/EU	AM056TNADKH/EU	AM071TNADKH/EU	AM082TNADKH/EU
1Φ, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz	1Φ, 2, 220~240 V, 50/60 Hz
3.6	4.5	5.6	6.8	8.2
4.0	5.0	6.3	7.0	8.5
37	40	52	60	65
37	40	52	60	65
0.25	0.27	0.35	0.40	0.43
0.25	0.27	0.35	0.40	0.43
Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
27 x 1	27 x 1	27 x 1	27 x 1	27 x 1
10.3/9.1/8.3	12.5/11.4/10.5	15.7/13.8/12.0	16.8/15.0/13.2	17.5/15.6/13.8
171.7/151.7/138.3	208.3/190.0/175.0	261.7/230.0/200.0	280.0/250.0/220.0	291.7/260.0/230.0
6.35	6.35	6.35	9.52	9.52
1/4	1/4	1/4	3/8	3/8
12.70	12.70	12.70	15.88	15.88
1/2	1/2	1/2	5/8	5/8
ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50	0.75~1.50
R410A (Fluorinated greenhouse gas, GWP = 2,088)				
EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
40/36/34/26 (Wind-Free™)	37/34/33/29 (Wind-Free™)	40/37/34/29 (Wind-Free™)	43/40/37/29 (Wind-Free™)	46/45/43/30(Wind-Free™)
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

Dimensional drawings

Wind-Free™ Deluxe (EEV excluded)

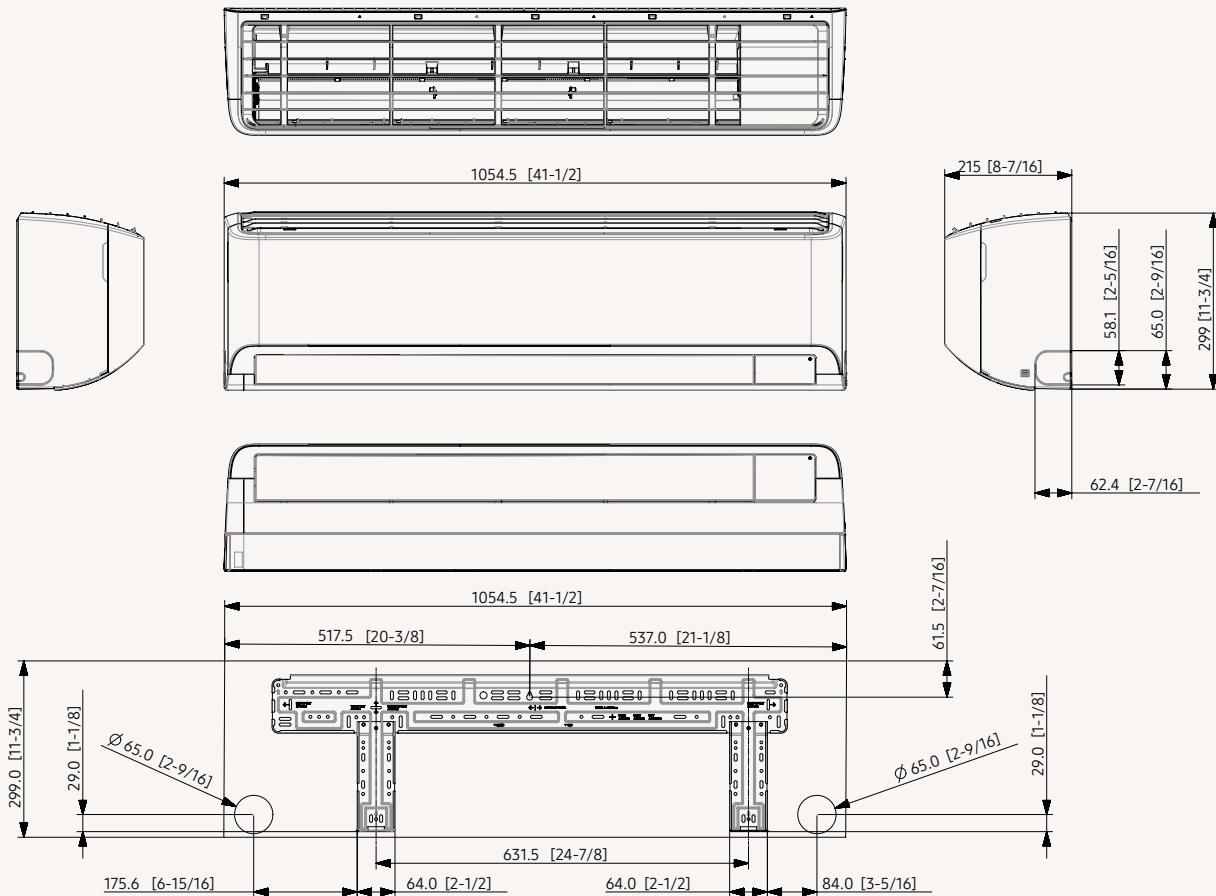
AM015TNADKH/EU AM022TNADKH/EU AM028TNADKH/EU AM036TNADKH/EU



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

AM045TNADKH/EU AM056TNADKH/EU AM071TNADKH/EU AM082TNADKH/EU

VRF



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	ID18 Hose

Specifications

Max Wall-Mounted

- Cross-flow fan direct driven by a single BLDC motor.
- Return air is filtered by means of an easily removable, washable Full HD 80 filter.
- Motorised louvre provides an automatic change in airflow by directing the air up and down.
- Manual adjustable guide vane allows users to change the airflow from side to side (left to right).



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

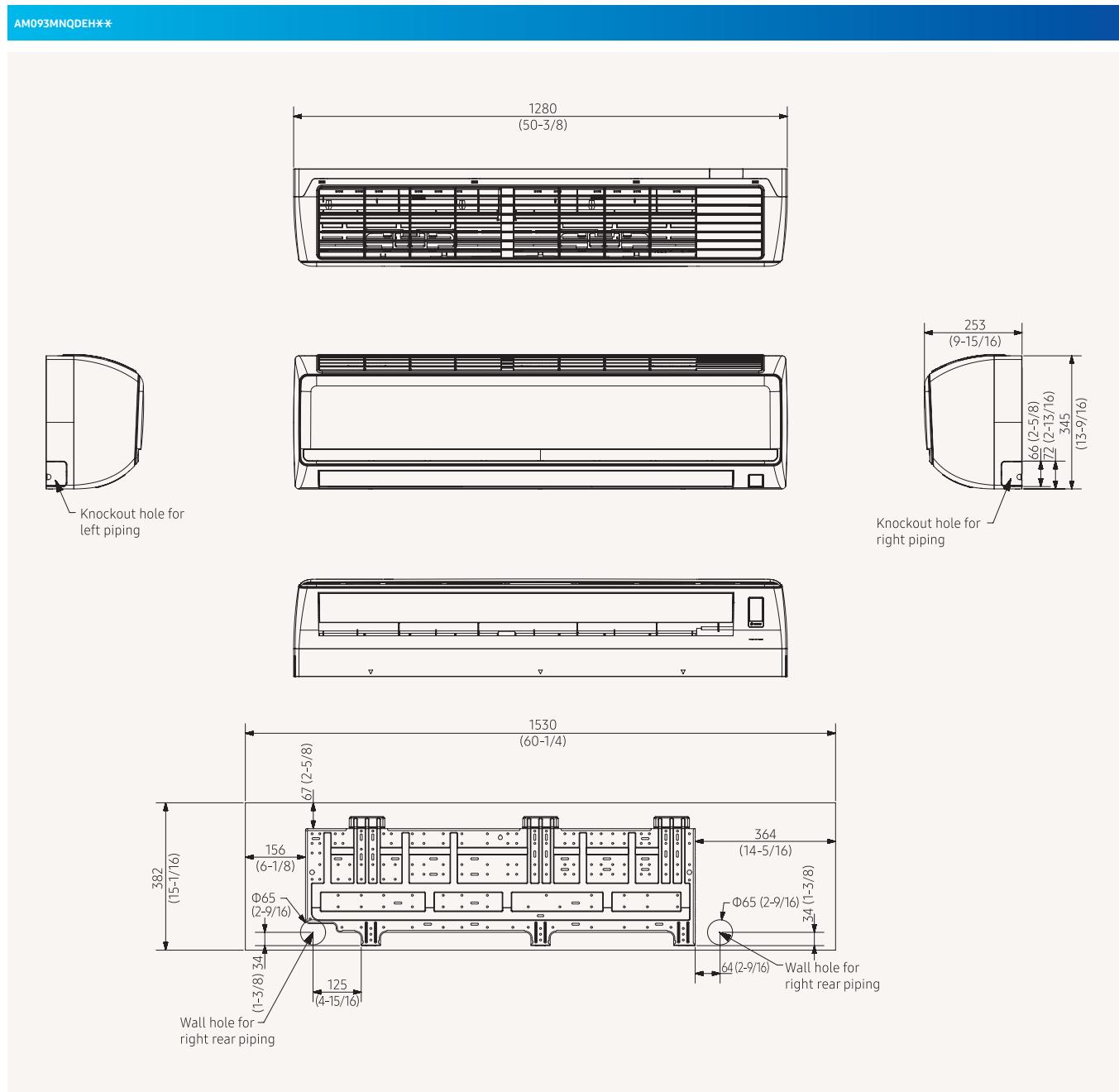
Accessories



Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	External Room Sensor
MWR-SH11N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRW-TA

Dimensional drawings

Max Wall-Mounted



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

Specifications

Hydro Unit

- Production of low temperature hot water and chilled water.
- Hot water production to a maximum temperature of 50 °C.
- Two-way control: leaving water temperature and room temperature control.

- Connection to low temperature radiators and AHU water coils.
- Hot water production for sanitary use.
- Connectable to Heat Recovery DVM S systems.



Model (HE)			AM160FNBDHE/EU	AM320FNBDHE/EU	AM500FNBDHE/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling kW	14.0	28.0	44.8
		Heating	16.0	31.5	50.4
Power	Power Input (Nominal)	Cooling W	10	10	10
		Heating	10	10	10
	Current Input (Nominal)	Cooling A	0.05	0.05	0.05
		Heating	0.05	0.05	0.05
	MCA (Including External Contact)		2.2	2.2	2.2
	MFA	A	2.75	2.75	2.75
Heat Exchanger	Type	-	PHE	PHE	PHE
	Quantity	-	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
Field Wiring	Power Source Wire (L<10 m, Single Installation)	mm ²	2.5	2.5	2.5
	Transmission Cable	mm ²	0.75–1.50	0.75–1.50	0.75–1.50
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)		
	Control Method	-	EEV	EEV	EEV
Sound ²	Sound Pressure	dB(A)	27	28	31
Dimensions	Net Weight	kg	29.0	33.0	40.0
	Net Dimensions (W × H × D)	mm	518 x 627 x 330	518 x 627 x 330	518 x 627 x 330
Operating Temperature Range	Ambient	Cooling °C	-5.0–48.0	-5.0–48.0	-5.0–48.0
		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



Wired Remote Controller	Wired Remote Controller
MWR-WW00N	MWR-WG00*N

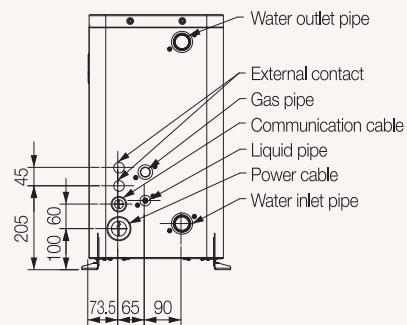
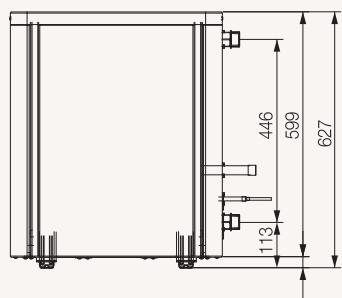
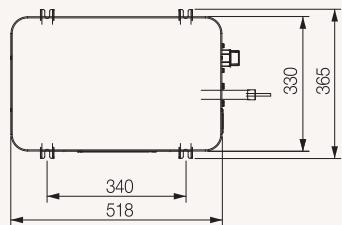


Model (HT)			AM160FNBFEB/EU	AM160FNBFGB/EU	AM250FNBFEB/EU	AM250FNBFGB/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz
Performance	Capacity (Nominal)	Cooling kW	-	-	-	-
		Heating	16	16	25	25
Power	Power Input (Nominal)	Cooling W	-	-	-	-
		Heating	3,100	3,100	5,000	5,000
	Current Input (Nominal)	Cooling A	-	-	-	-
		Heating	14.30	4.85	23.10	7.85
	MCA (Including External Contact)		24.15	12.88	32.15	12.88
	MFA		30.19	16.10	40.19	16.10
Heat Exchanger	Type	-	PHE	PHE	PHE	PHE
	Quantity	-	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)	mm ²	4.0	2.5	4.0	2.5
	Transmission Cable	mm ²	0.75–1.50	0.75–1.50	0.75–1.50	0.75–1.50
Refrigerant	Type	-	R134A	R134A	R134A	R134A
	Control Method	-	EEV	EEV	EEV	EEV
	Factory Charging	kg / tCO ₂ e	2.15/3.07	2.15/3.07	2.15/3.07	2.15/3.07
Sound ²	Sound Pressure	dB(A)	42	42	42	42
	Sound Power	-	-	-	-	-
Dimensions	Net Weight	kg	104.0	104.0	104.0	104.0
	Net Dimensions (W × H × D)	mm	518 x 1,210 x 330			
Operating Temperature Range	Ambient	Cooling °C	-	-	-	-
		Heating °C	-20.0–35.0	-20.0–35.0	-20.0–35.0	-20.0–35.0
		Hot Water (Main Cooling, HR)	-20.0–35.0 (43.0)	-20.0–35.0 (43.0)	-20.0–35.0 (43.0)	-20.0–35.0 (43.0)
	Leaving Water	Heating °C	25.0–80.0	25.0–80.0	25.0–80.0	25.0–80.0

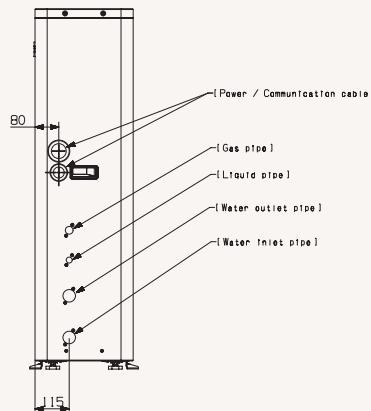
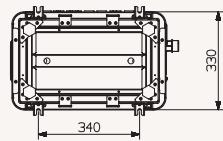
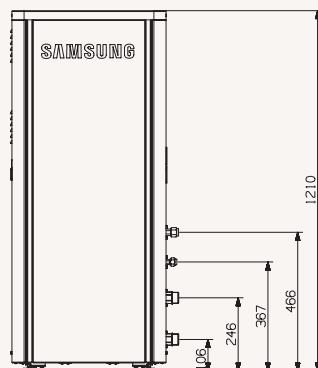
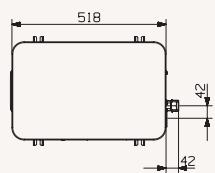
Dimensional drawings

Hydro Unit

AM***FNBDEH/EU



AM***FNBFEH/EU





Specifications

Mode Control Unit (MCU)

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

VRF



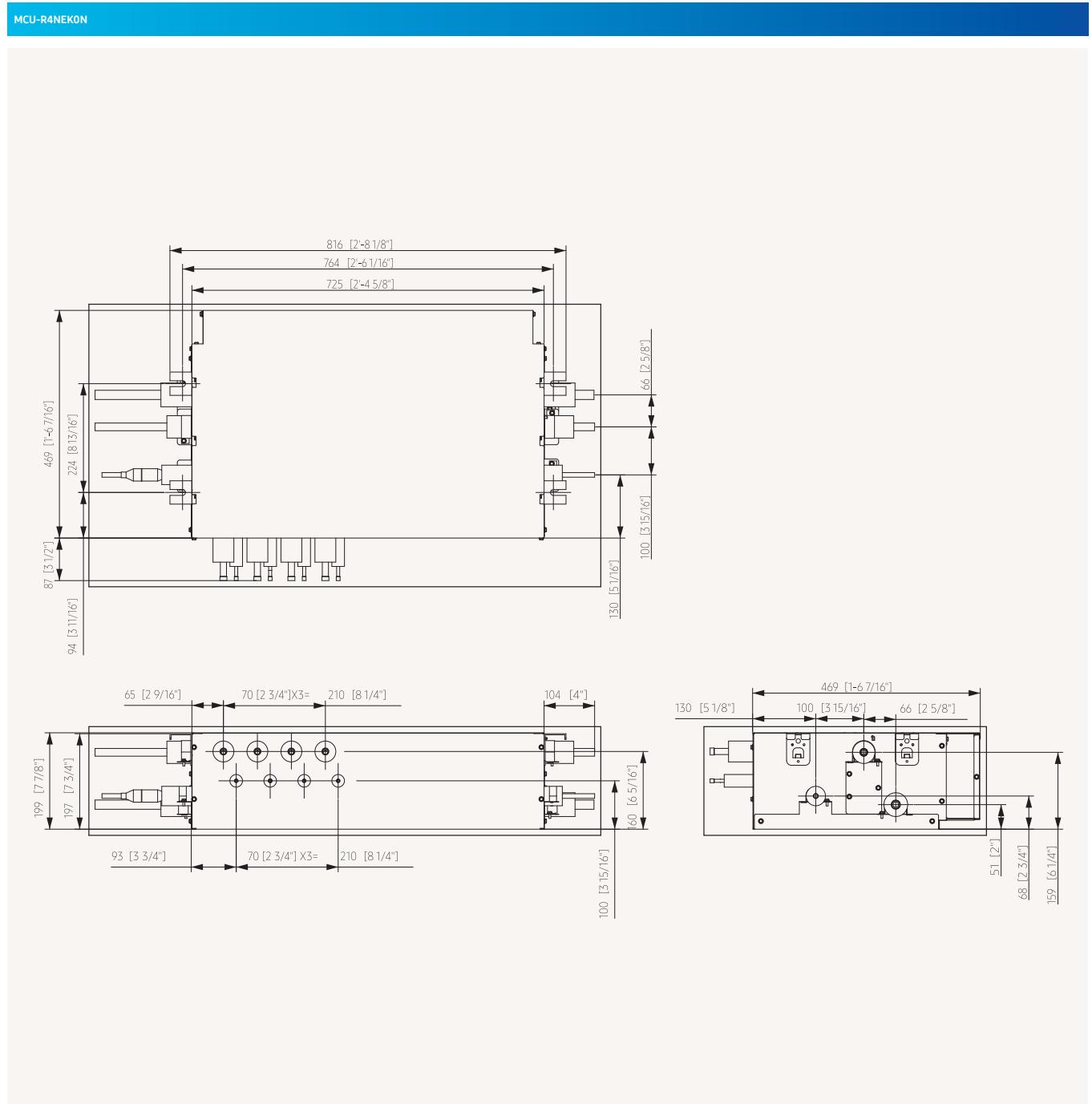
Model		MCU-R4NEK01N	MCU-S6NEK3N
Type		HR Changer	MCU
Power Supply	Φ, #, V, Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz
Mode	-	Heat Recovery	Heat Recovery
Max. number of indoor units	-	12	18
Max. indoor units per port	-	3	3
Number of ports	-	4	6
Max. capacity of indoor units	kW	22.4	22.4
Max. capacity of indoor units per port	kW	5.6	5.6
Refrigerant	Additional Refrigerant Charging	kg/unit	0.5
Piping Connections	Outdoor Unit - Liquid Pipe	ø, mm	9.52
		ø, inch	3/8
	Gas Pipe (Low Pressure)	ø, mm	19.05
		ø, inch	3/4
	Gas Pipe (High Pressure)	ø, mm	15.88
		ø, inch	5/8
	Indoor Unit - Liquid Pipe	ø, mm	6.35
		ø, inch	1/4
	Gas Pipe	ø, mm	12.70
		ø, inch	1/2
External Dimensions	Net Weight	kg	21.3
	Net Dimensions (W x H x D)	mm	728 x 199 x 469
Operating Temperature Range	Cooling	°C	-5.0~48.0
	Heating	°C	-25.0~26.0



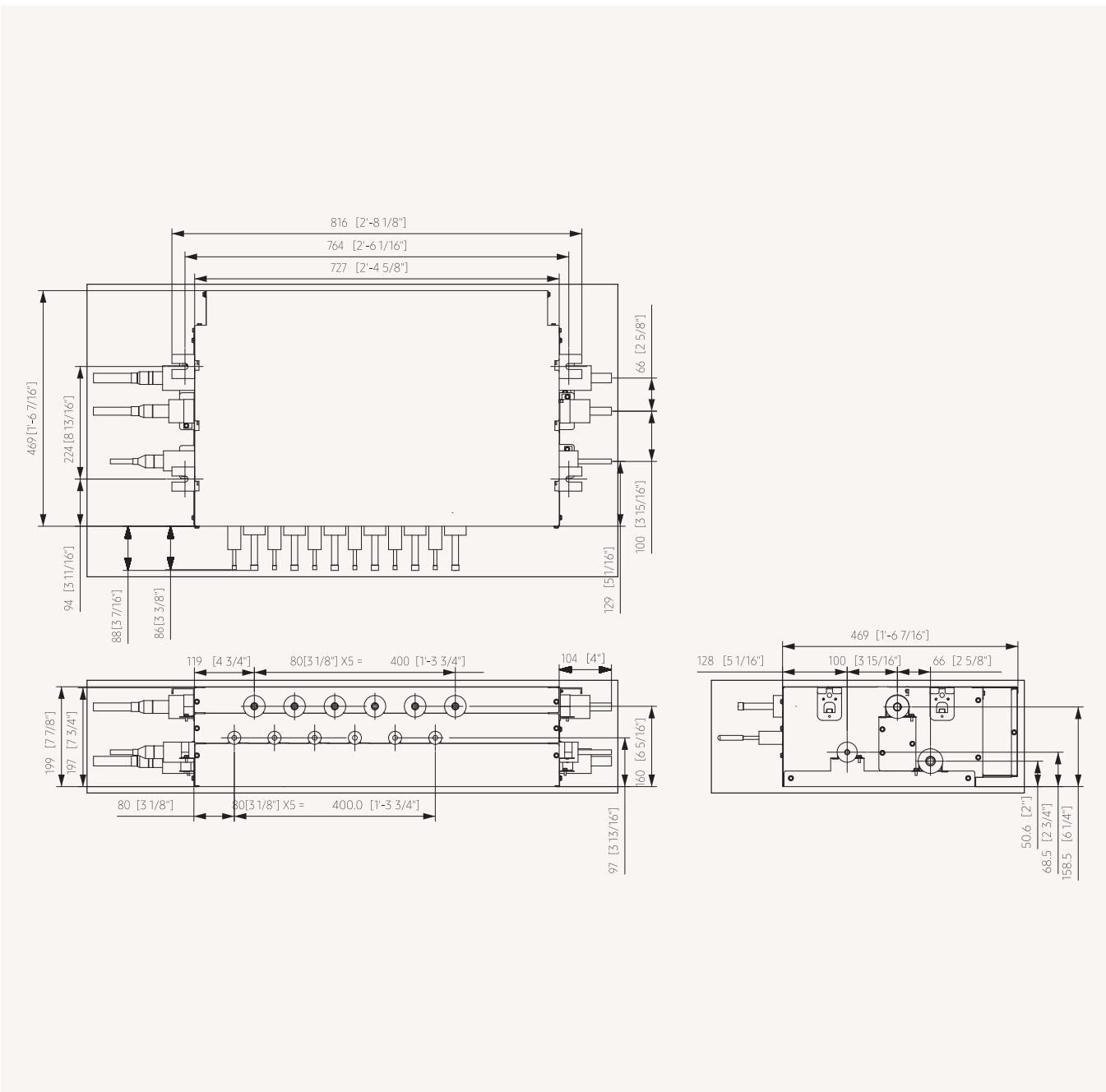
Model			MCU-S1NEK1N	MCU-S2NEK2N	MCU-S4NEK3N	MCU-S6NEK2N	
Power Supply			Φ, #, V, Hz				
Power	Power Input (Nominal)	Cooling	W	19	25	40	55
		Heating		19	25	40	55
	Current Input (Nominal)	Cooling	A	0.20	0.20	0.20	0.30
		Heating		0.20	0.20	0.20	0.30
MCA	MCA	A		2.0	2.0	2.0	2.0
	MFA (MOP)	A		15.0	15.0	15.0	15.0
Max. number of connectable indoor units	-			8	16	32	32
Max. number of connectable indoor units per branch	-			8	8	8	8
Number of branches	-			1	2	4	6
Max. capacity of connectable indoor units	kW			16.0	32.0	61.6	61.6
Max. capacity of connectable indoor units per branch	-	kW		16.0	16.0	16.0	16.0
Field Wiring	Power Source Wire	mm ²		2.5	2.5	2.5	2.5
	Transmission Cable	mm ²		0.75-1.50	0.75-1.50	0.75-1.50	0.75-1.50
Sound Pressure	Stable Cooling Operation	dB(A)		33	34	36	36
	Heating-to-Cooling Changeover			50	50	50	50
Additional Refrigerant Charging		kg/unit		0.5	0.5	0.5	0.5
Piping Connections	Outdoor Unit	Liquid Pipe	ø, mm	9.52	15.88	15.88	15.88
			ø, inch	3/8	5/8	5/8	5/8
		Gas Pipe	ø, mm	22.22	28.58	28.58	28.58
			ø, inch	7/8	11/8	11/8	11/8
	Indoor Unit	Discharge Gas	ø, mm	19.05	28.58	28.58	28.58
			ø, inch	3/8	11/8	11/8	11/8
		Liquid Pipe	ø, mm	9.52	9.52	9.52	9.52
			ø, inch	3/8	3/8	3/8	3/8
External Dimensions	Net Weight	kg		11.0	21.0	24.5	28.5
		Net Dimensions (W x H x D)	mm	338 x 409 x 199	728 x 469 x 199	728 x 469 x 199	728 x 469 x 199
	Operation Limit	Cooling	°C (°F)	-15.0~48.0 (5.0~118.4)	-15.0~48.0 (5.0~118.4)	-15.0~48.0 (5.0~118.4)	-15.0~48.0 (5.0~118.4)
		Heating	°C (°F)	-25.0~24.0 (-13.0~75.2)	-25.0~24.0 (-13.0~75.2)	-25.0~24.0 (-13.0~75.2)	-25.0~24.0 (-13.0~75.2)

Dimensional drawings

Mode Control Unit (MCU)

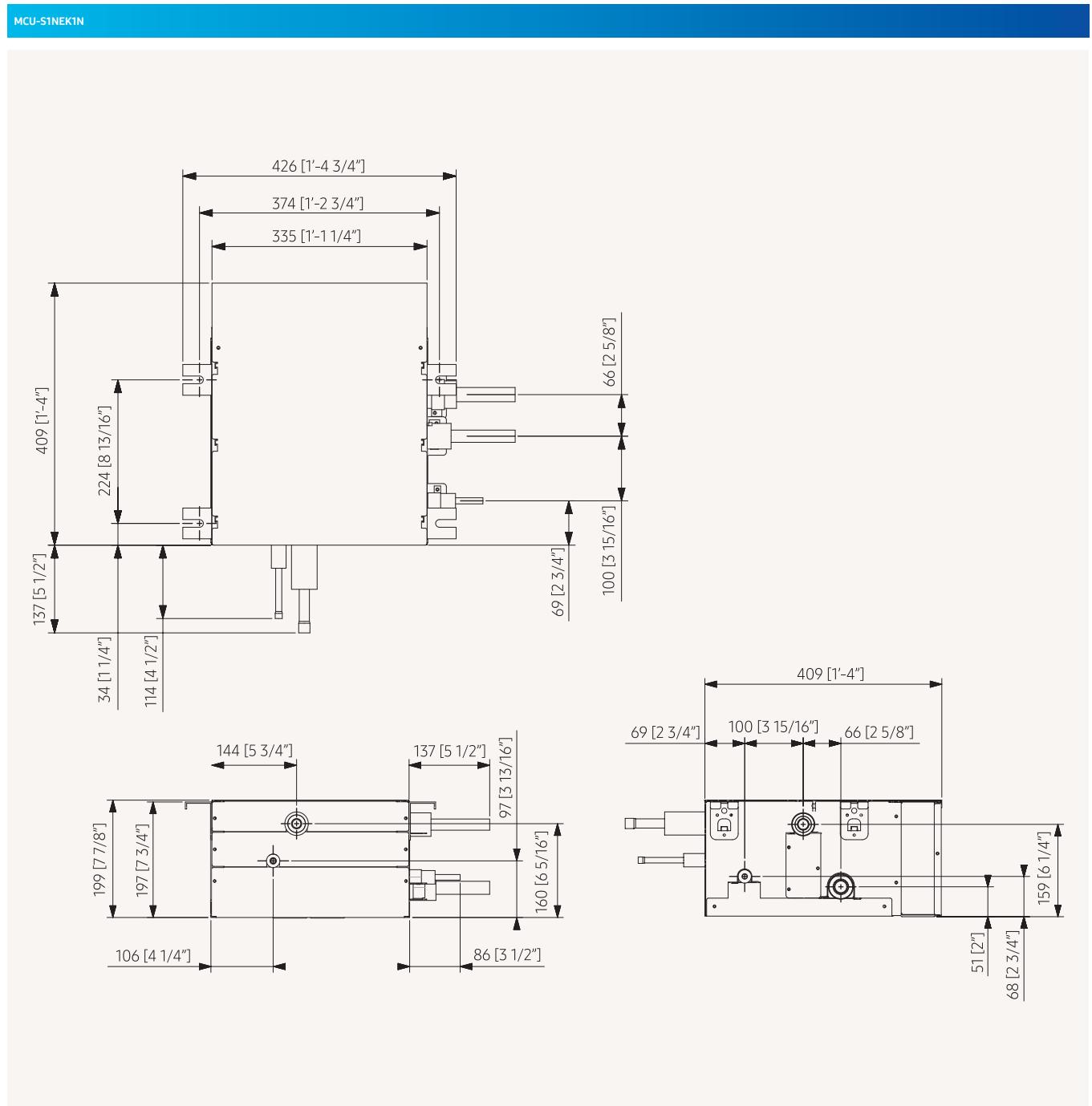


MCU-S6NEK3N

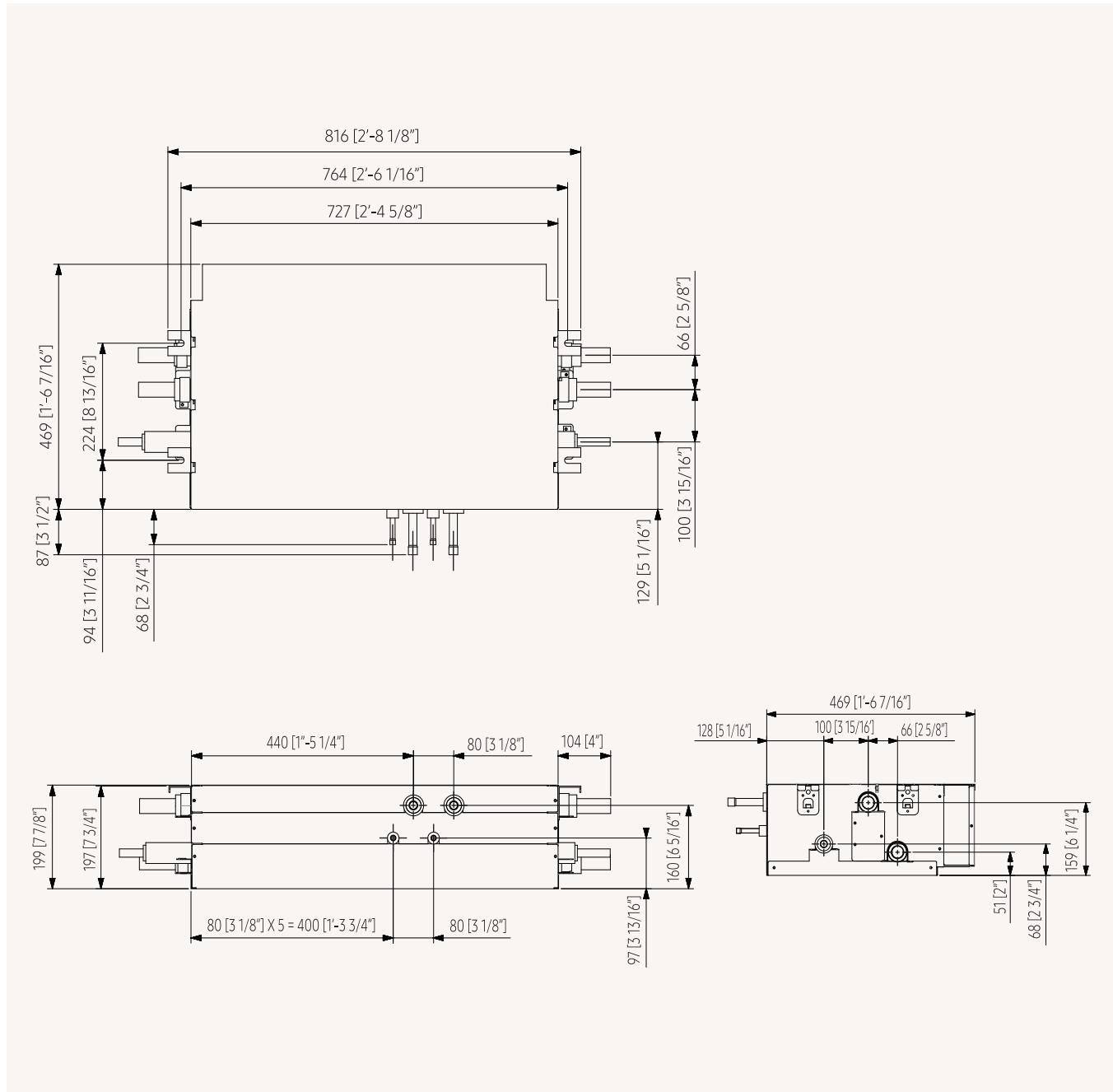


Dimensional drawings

Mode Control Unit (MCU)

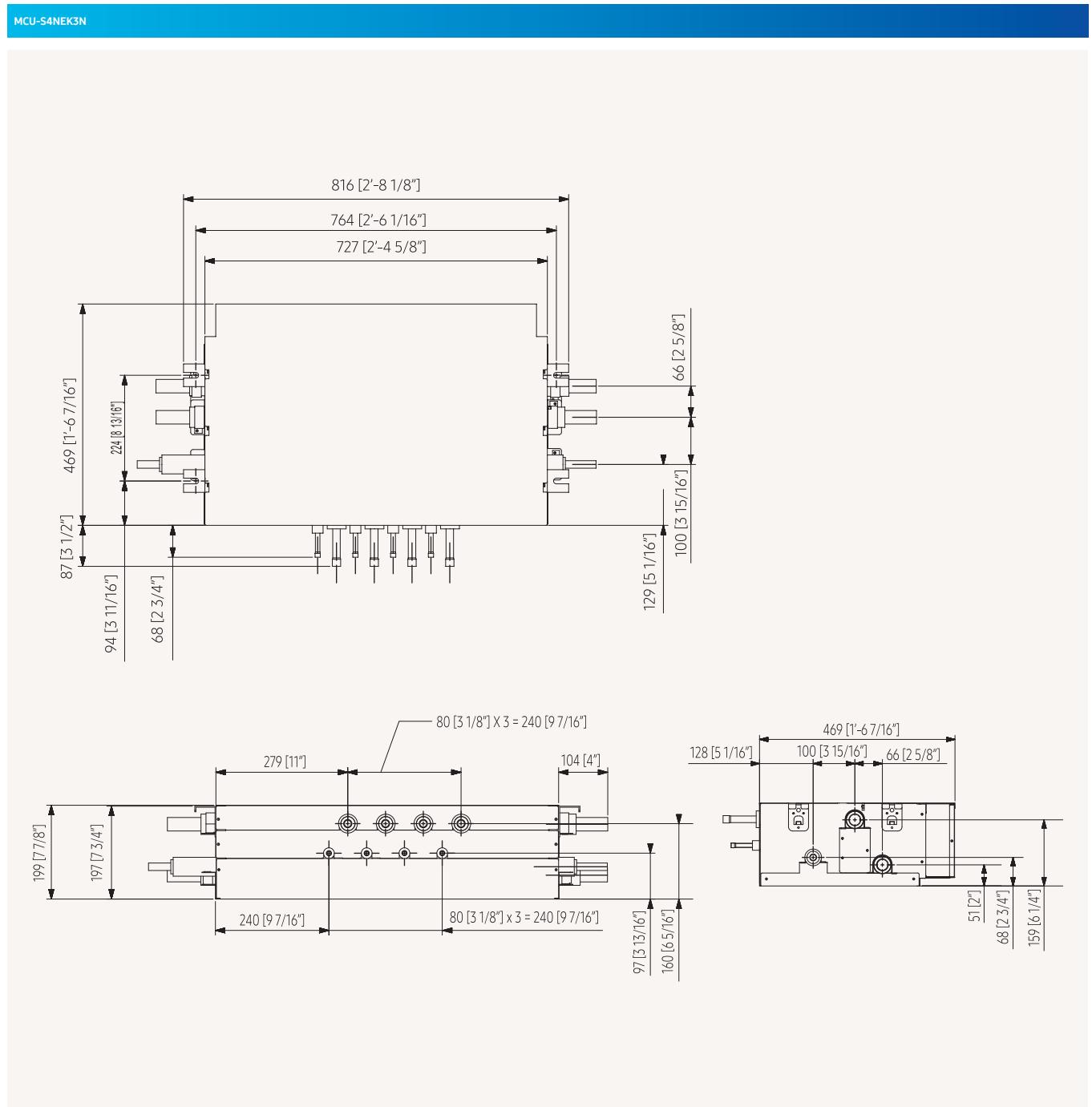


MCU-S2NEK2N

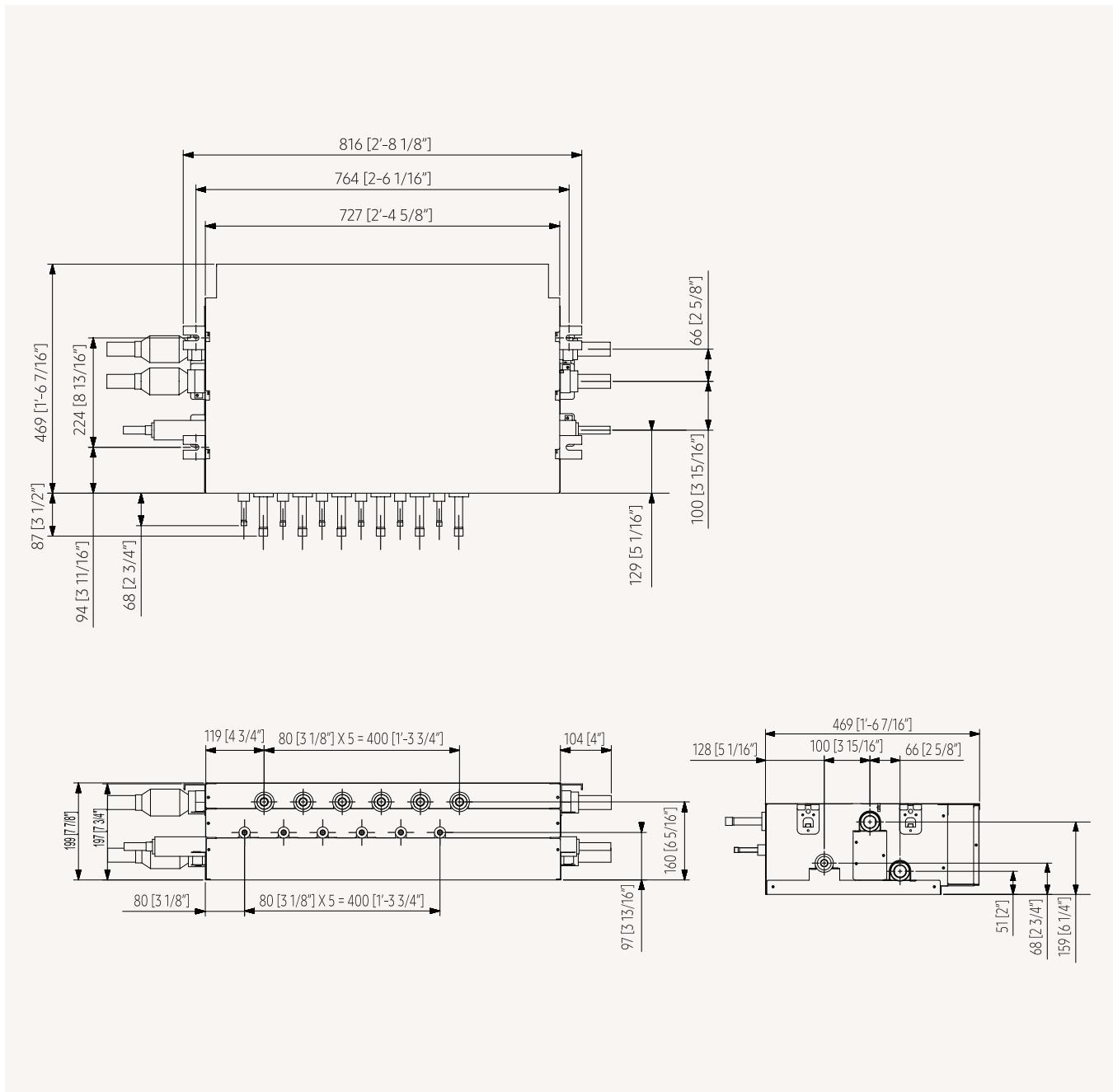


Dimensional drawings

Mode Control Unit (MCU)



MCU-S6NEK2N



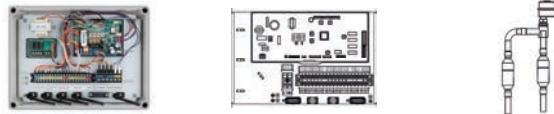
Specifications

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, heating, ventilation and humidity in one package.



Model		AHU Kit		
		MXD-K025AN	MXD-K050AN	MXD-K075AN
Connectable Outdoor		HP/HR	HP/HR	HP/HR
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50/60 Hz	1Φ, 2, 220–240 V, 50/60 Hz
Design Recommendation	AHU Capacity Allowance	Max. kW	8.8	17.5
		MBH	30	60
	AHU Internal Heat Exchanger Volume Allowance	Min. kW	6.3	12.6
		MBH	21.6	43.2
Piping Connections (EEV Kit)	High pressure pipe from outdoor unit	cm³	2.0	4.0
		cm³	1.2	2.4
	High pressure pipe to AHU	ø, mm	9.52	9.52
		ø, inch	3/8	3/8
Sensor	EVA. IN	Type/Φ	103HW/6Φ	103HW/6Φ
		m/mm²	10 m/2*0.75 mm²	10 m/2*0.75 mm²
	EVA. OUT	Type/Φ	103HW/7Φ	103HW/7Φ
		m/mm²	10 m/2*0.75 mm²	10 m/2*0.75 mm²
	Room	Type/Φ	103HW/Moulding	103HW/Moulding
		m/mm²	10 m/2*0.75 mm²	10 m/2*0.75 mm²
Refrigerant	Discharge	Type/Φ	103HW/7Φ	103HW/7Φ
		m/mm²	10 m/2*0.75 mm²	10 m/2*0.75 mm²
EEV Kit	Type	R410A(Fluorinated greenhouse gas, GWP=2,088)		
EEV Kit	Type	INCLUDED	INCLUDED	INCLUDED
	EEV Wire Length	m	2	2
		ft	6.6	6.6
External Dimensions	EEV Kit	(W x H x D)	mm	415 x 102 x 170
	Control Box	(W x H x D)	mm	380 x 130 x 280
				380 x 130 x 280



AHU Kit MXD-K100AN	Control Kit MCM-D201N (10/20/30/40HP)	EEV Kit (Optional) MXD-A64K100E (10HP)
HP/HR	HP	HP
1Φ, 2, 220–240 V, 50/60 Hz	1Φ, 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
8.0	8.0/16.0/24.0/32.0	8.0
6.1	6.1/12.2/18.3/24.4	6.1
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	-	-
R410A(Fluorinated greenhouse gas, GWP=2,088)		
INCLUDED	NOT INCLUDED	-
7	-	7
23.0	-	23.0
415 x 102 x 170	-	Accessory for MCM-D201N, ordered separately (1 per 10HP)
380 x 130 x 280	385 x 53 x 275	-

VRF Chiller





Line-up outdoor

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

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

Combination guide - outdoor

Modulation guide

Total Capacity (kW)	Model	Suggested ø water-type controller piping	
	AG042	AG056	AG070
42	1		40
56		1	40
65			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 (kW)	Model	Suggested ø water-type controller piping	
	AG042	AG056	AG070
455			7
462		11	125
504			9
504 (high efficiency)		12	125
520			8
546		13	125
560			10
585			9
588		14	125
616			11
630		15	125
650			10
672			12
672 (high efficiency)		16	125
715			11
728			13
780			12
784			14
840			15
845			13
896			16
910			14
975			15
1,040			16

Line-up indoor

Model Type	Image	1.9 kW	2.6 kW	3.0 kW	4.2 kW	6.0 kW	7.2 kW	7.8 kW	9.0 kW	10.0 kW
1-Way Cassette FCU		.	.	.						
4-Way Cassette FCU		
360 Cassette FCU			
Concealed FCU			
Cased FCU			

Selection guide

Cassette



Feature	1-Way Cassette FCU	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	AC/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	Cased FCU
Cooling capacity range (nominal)	1.9–7.8 kW	1.9–7.8 kW
Heating capacity range (nominal)	2.1–8.4 kW	2.1–8.4 kW
Fan motor type	3-step AC	3-step AC
Drain Pump	Optional	Optional
Filter	Polypropylene washable	Polypropylene washable
3-Way Valve	Built-in	Built-in
2-pipe	●	●
4-pipe (optional)	●	●
Installation	Horizontal/vertical	Horizontal/vertical

Nomenclature

Indoor units

AG	072	M	N	4	P	K	H
1	2	3	4	5	6	7	8

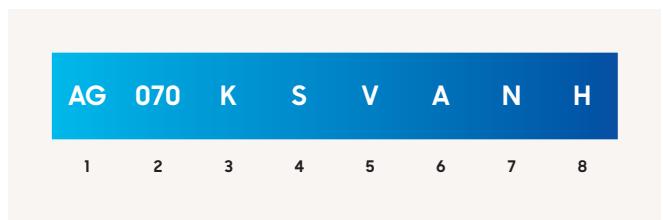
1	Classification	AG	Chiller/Fan Coil Unit (FCU)
2	Capacity	x1/10 kW (3 digits)	
3	Version	K	2016
		M	2017
		N	2018
4	Product Type	N	Indoor Unit
5	Product Notation	1	1-Way Cassette
		4	4-Way Cassette, 360 Cassette
6	Feature	D	Deluxe
		P	Premium
7	Voltage Rating	E	1Φ, 220~240 V, 50 Hz
		K	1Φ, 220~240 V, 50/60 Hz
8	Mode	H	Heat Pump

Indoor units (third party)

ACL	65	D	F
1	2	3	4

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

Outdoor units



1	Classification	AG	Chiller (HVM Chiller)
2	Capacity		kW(3 digits)
3	Version	K	2016
		M	2017
		N	2018
4	Product Type	S	SET HVM Chiller
5	Product Notation	V	Inverter
6	Feature	A	Non-pump
7	Voltage Rating	N	3Φ, 380~415 V, 50/60 Hz
8	Mode	H	Heat Pump

Specifications

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	3 Φ , 4, 380–415 V, 50/60 Hz	3 Φ , 4, 380–415 V, 50/60 Hz
Performance	Capacity (Nominal)	Cooling	kW	42	56
		Heating	kW	42	56
Power	Power Input (Nominal)	Cooling	kW	12.4	18.7
		Heating	kW	11.83	17.50
	Current Input (Nominal)	Cooling	A	19.6	29.6
		Heating	A	18.8	27.8
	Current	MCA	A	32	46
		MFA	A	40	60
Efficiency	EER Nominal Cooling (pump input is not included)	W/W		3.4	3.0
	COP Nominal Heating (pump input is not included)	W/W		3.6	3.2
	ESEER (Pump input is not included)	W/W		5.7	5.4
Fan	Type	-	Axial Fan	Axial Fan	Axial Fan
	Number of Fans	-	2	2	2
	Airflow Rate	m³/min	364 (182 x 2)	364 (182 x 2)	392 (196 x 2)
		l/s	6,067	6,067	6,535
	External Static Pressure	Max.	mmAq	8.00	8.00
			Pa	78.5	78.5
Fan Motor	Type	-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n	W	630 x 2	630 x 2	630 x 2
Water Side Heat Exchanger	Type	-	Brazing Plate	Brazing Plate	Brazing Plate
	Water Flow Rate (Cooling/Heating)	l/min	120/120	160/160	186/200
	Pressure Drop (Set. Nominal)	kPa	60	100	120
	Max. Operating Pressure	MPa	1	1	1
	Connection Type	-	FLANGE	FLANGE	FLANGE
	Pipe Connection (Inlet/Outlet)	ø, mm	40	40	50
		ø, inch	11/2	11/2	2
	Quantity	-	2	2	2
Wiring Connections	Communication	Min.	mm²	0.75	0.75
		Remark		F1, F2	F1, F2
Refrigerant	Type	-		R410A(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	63
		Heating	dB(A)	57	64
	Sound Power		dB(A)	80	85
External Dimensions	Net Weight	kg	446.0	446.0	465.0
	Net Dimensions (W x H x D)	mm	1,795 x 1,695 x 765	1,795 x 1,695 x 765	1,795 x 1,695 x 765
Operating Water Temperature Range	Cooling	°C	5.0–25.0	5.0–25.0	5.0–25.0
	Cooling (if using brine)	°C	-10.0–25.0	-10.0–25.0	-10.0–25.0
	Heating	°C	25.0–55.0	25.0–55.0	25.0–55.0
Operating Water Flow Range	Water Flow Rate	l/min	60–240	80–320	93–400
	Minimum Water Storage in the System	L	294	392	490
Operating Ambient Temperature Range	Cooling	°C	-15.0–48.0	-15.0–48.0	-15.0–48.0
	Heating	°C	-25.0–43.0	-25.0–43.0	-25.0–43.0

Accessories

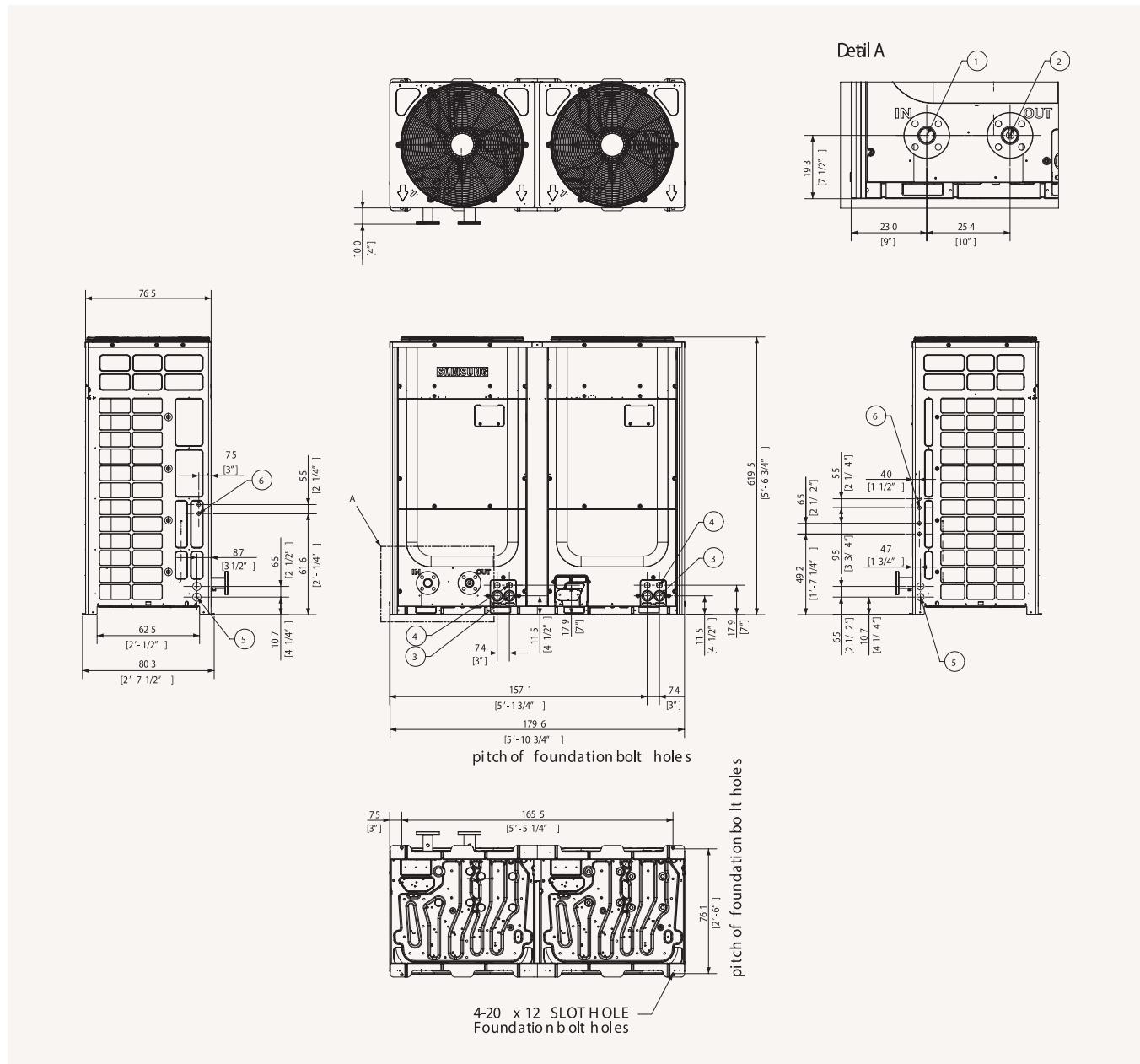


Module Controller	DMS2.5	BACnet Gateway	Touch Centralised Controller
MCM-A00N	MIM-D01AN	MIM-B17BN	MCM-A300N

Dimensional drawings

HVM Chiller

AG042/056/070KSVANH/EU



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)

Specifications

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
- 3-Way valve kit (optional).
- Compatible with Wi-Fi Kit controller.



Model		AG026MN1DEH/EU		AG032MN1DEH/EU		AG042MN1DEH/EU	
Power Supply	Φ, V, Hz	1Φ, 220~240 V, 50 Hz		1Φ, 220~240 V, 50 Hz		1Φ, 220~240 V, 50 Hz	
Mode	-	HP		HP		HP	
Performance	Capacity (Nominal)	Cooling	kW	2.60	3.00	4.15	
		Heating	kW	2.90	3.35	5.00	
Power	Power Input (Nominal)	Cooling	W	47	50	55	
		Heating	W	47	50	55	
	Current Input (Nominal)	Cooling	A	0.24	0.26	0.29	
		Heating	A	0.24	0.26	0.29	
Heat Exchanger	Type	-	Fin & tube	Fin & tube	Fin & tube	Fin & tube	
Fan	Type	-	Crossflow fan	Crossflow fan	Crossflow fan	Crossflow fan	
	Number of Fans	-	1	1	1	1	
	Airflow Rate	H/M/L	m³/min	6.8/5.8/4.9	7.8/6.8/4.9	14.6/12.6/10.7	
Fan Motor	Type	-	AC	AC	AC	BLDC	
	Output x n		W	12 x 1	12 x 1	54 x 1	
Water	Water Flow Rate	Cooling	l/min	7.5	9.6	11.9	
	Water Flow Rate	Heating	l/min	8.4	9.7	14.4	
	Pressure Drop	Cooling	kPa	23.0	34.5	45.0	
	Pressure Drop	Heating	kPa	28.0	35.8	64.6	
Piping Connections	Liquid Pipe (IN)	Type	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)	Type	PF MALE	PF MALE	PF MALE	PF MALE	
		ø, mm (inch)	20A (3/4)	20A (3/4)	20A (3/4)	20A (3/4)	
	Heat Insulation	-	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/outlet pipes	
	Drain Pipe	ø, mm	VP20 (OD 26, ID 20)	VP20 (OD 26, ID 20)	VP20 (OD 26, ID 20)	VP25 (OD 32, ID 25)	
Sound	Sound Pressure	(H/M/L)	dB(A)	32/30/28	37/33/28	40/37/33	
	Sound Power	Cooling	dB(A)	49	52	58	
Dimensions	Net Weight	kg		10.5	10.5	14.0	
	Net Dimensions (W x H x D)	mm		970 x 135 x 410	970 x 135 x 410	1,200 x 138 x 450	
Casing	Material	-	Plastic	Plastic	Plastic	Plastic	
Panel	Panel Model	-	PC1NUSMAN	PC1NUSMAN	PC1NUSMAN	PC1BWSMAN	
Additional Accessories	Drain Pump	Type	-	Built-in	Built-in	Built-in	
		Max. Lifting Height/ Displacement	mm/(cc/min)	750/400	750/400	750/400	
	3-Way Valve Kit (optional)			ACL-A60V3	ACL-A60V3	ACL-A60V3	
	Filter	-	Microfibrous filter	Microfibrous filter	Microfibrous filter	Microfibrous filter	

Accessories



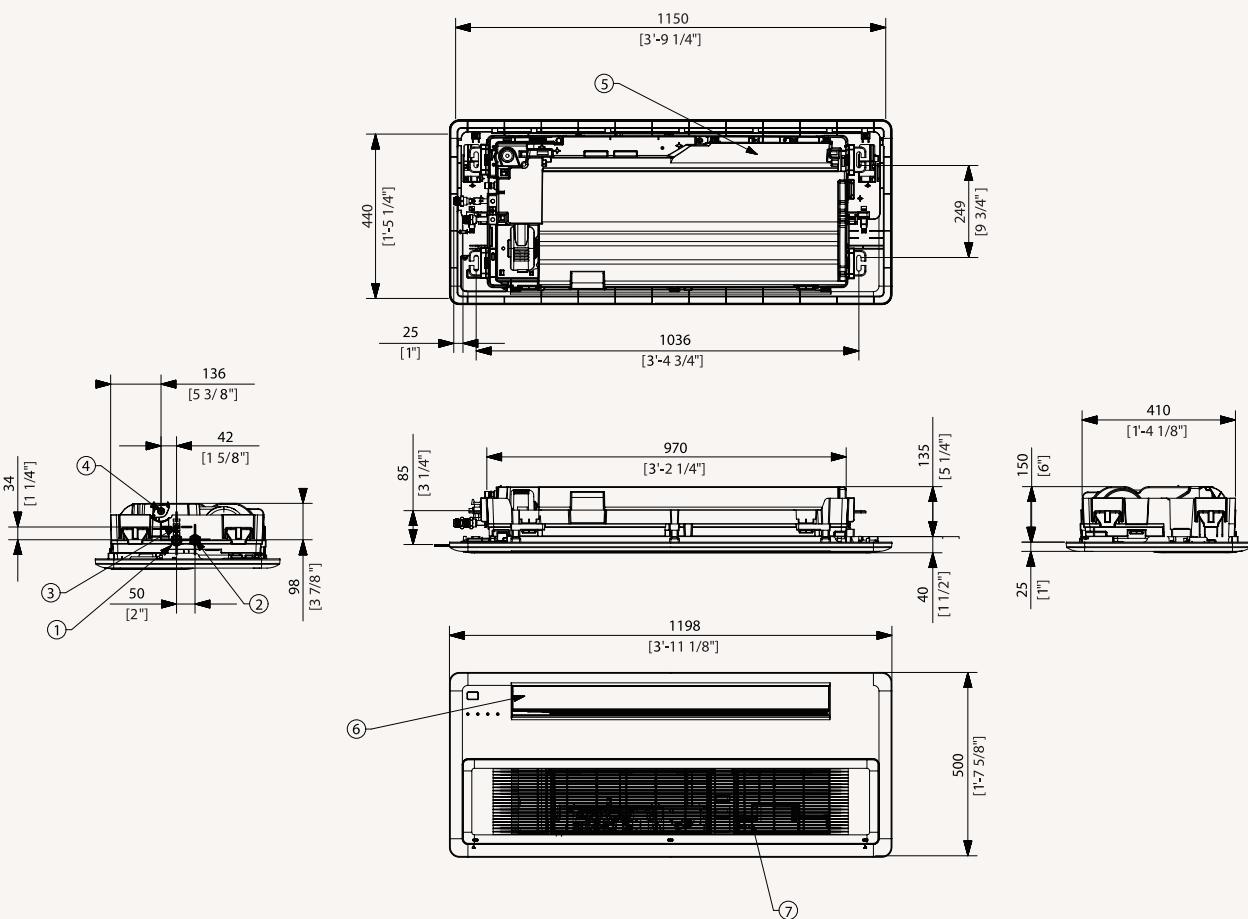
Panel (Optional)	Panel (Optional)	FCU Interface Module	FCU Kit	Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller
PC1BWSMAN	PC1NUSMAN	MIM-F10N	MIM-F00N	AR-EH03E	MWR-SH00N	MWR-SH11N	MWR-WE13N	MWR-WG00*N

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

Dimensional drawings

1-Way Cassette FCU

AG026/032MN1DEH/EU

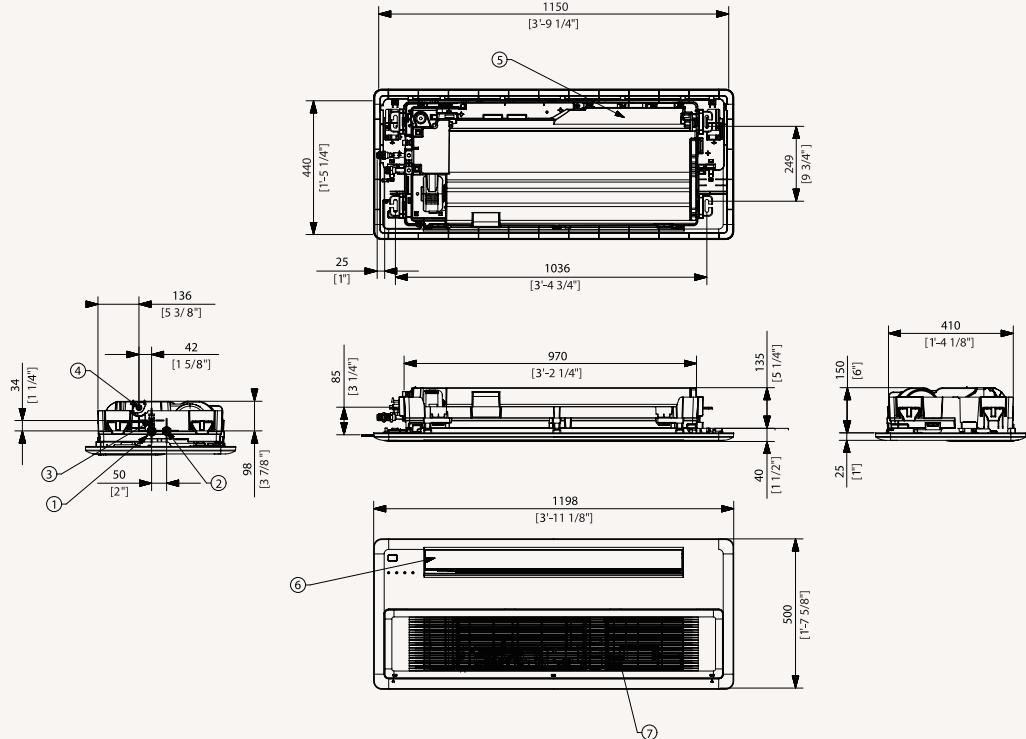


NO	Name	Description
1	Water pipe connection out	PF Male 3/4 (20A)
2	Water pipe connection in	PF Male 3/4 (20A)
3	Air vent valve	
4	Drain hose	VP20 (OD 26, ID 20)
5	Power supply/communication wiring conduits	
6	Air discharge part	
7	Air suction part	

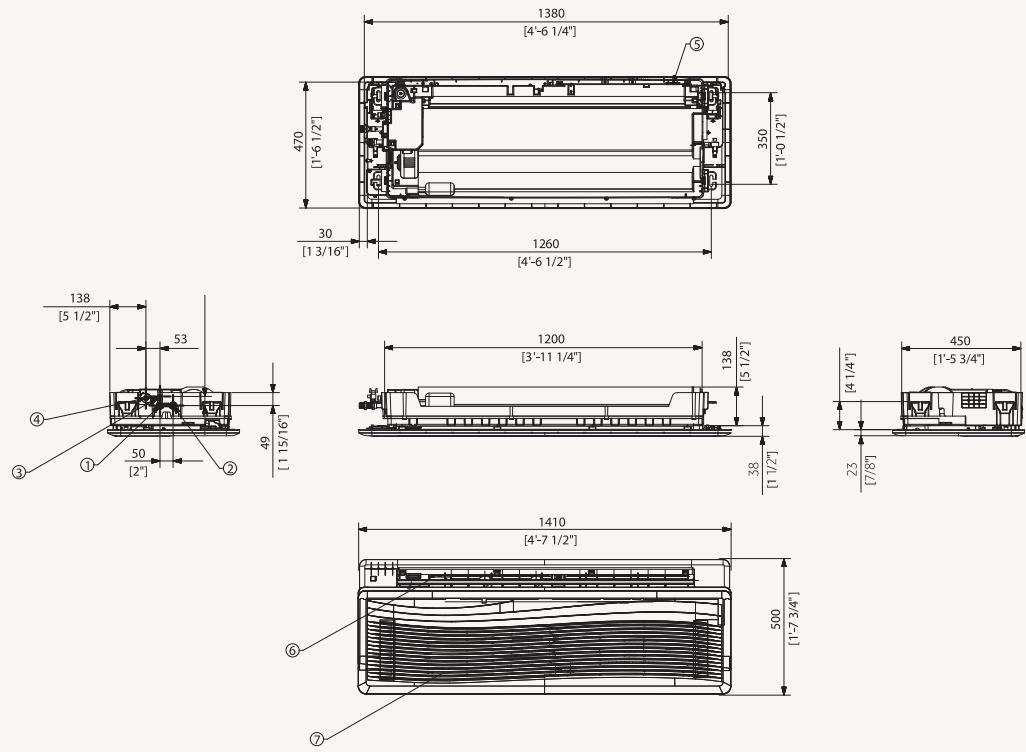
Dimensional drawings

1-Way Cassette FCU

AG026/032MN1DEH/EU



AG042MN1DEH/EU



Specifications

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.
- 3-Way valve kit (optional).
- Compatible with Wi-Fi Kit controller.
- Motion Detect Sensor (optional).



Model		AG060MN4DKH/EU	AG072MN4DKH/EU	AG090MN4DKH/EU	AG105MN4DKH/EU
Power Supply	Φ, V, Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz
Mode	-	HP	HP	HP	HP
Performance	Capacity (Nominal)	Cooling kW	6.0	7.2	9.0
		Heating kW	7.3	8.5	10.0
Power	Power Input (Nominal)	Cooling W	50	73	82
		Heating W	50	73	82
	Current Input (Nominal)	Cooling A	0.37	0.50	0.58
		Heating A	0.37	0.5	0.58
Fan	Type	-	Fin & tube	Fin & tube	Fin & tube
	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
	Number of Fans	-	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
Fan Motor	Type	-	BLDC	BLDC	BLDC
	Output x n	W	65 x 1	65 x 1	65 x 1
Water	Water Flow Rate	Cooling l/min	17.5	20.8	26.0
	Water Flow Rate	Heating l/min	21.1	24.5	28.9
	Pressure Drop	Cooling kPa	27.0	36.0	46.8
	Pressure Drop	Heating kPa	37.3	48.6	56.3
Piping Connections	Liquid Pipe (IN)	Type	PF MALE	PF MALE	PF MALE
		ø, mm (inch)	20A (3/4)	20A (3/4)	20A (3/4)
	Liquid Pipe (OUT)	Type	PF MALE	PF MALE	PF MALE
		ø, mm (inch)	20A (3/4)	20A (3/4)	20A (3/4)
	Heat Insulation	-	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/outlet pipes
	Drain Pipe	ø, mm	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	41/35/30	42/38/35
	Sound Power Cooling	dB(A)	56	60	58
Dimensions	Net Weight	kg	15.5	15.5	18.0
	Net Dimensions (W × H × D)	mm	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840
Panel	Panel Model	-	PC4NUSKAN PC4NUSKEN	PC4NUSKAN PC4NUSKEN	PC4NUSKAN PC4NUSKEN
			PC4NBSKAN	PC4NBSKAN	PC4NBSKAN
Additional Accessories	Drain Pump	Type	-	Built-in	Built-in
		Max. Lifting Height/ Displacement	mm/(cc/ min)	750/400	750/400
				ACL-A60V3	ACL-A60V3
	3-Way Valve Kit (optional)				ACL-A60V3
	Filter	-	Microfibrous filter	Microfibrous filter	Microfibrous filter

Accessories

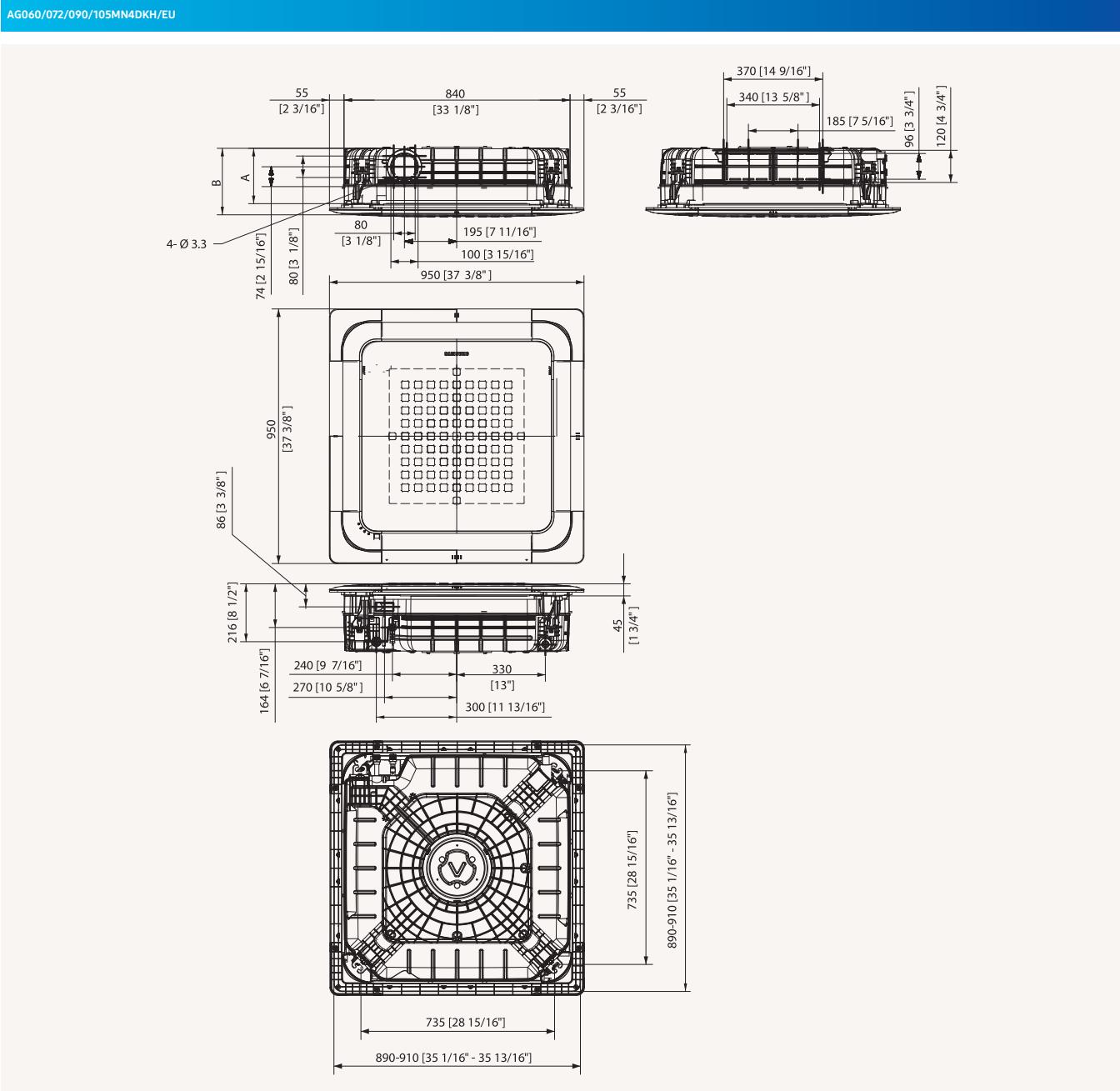


Panel (Optional)	Panel (Optional)	Panel (Optional)	FCU Interface Module	FCU Kit	Wireless Remote Controller	Simple Type Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller
PC4NBSKAN	PC4NUSKAN	PC4NUSKEN	MIM-F10N	MIM-F00N	AR-EH03E	MWR-SHOON	MWR-SH11N	MWR-WE13N	MWR-WG00*N

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

Dimensional drawings

4-Way Cassette FCU



Pos.	Name	Description
Model	AG060MN4DKH/EU AG072MN4DKH/EU 204 [8 1/16] 253 [9 15/16]	AG090MN4DKH/EU AG105MN4DKH/EU 246 [9 11/16] 295 [11 5/8]
A	205	289
Pipe connection	PF 3/4 Male	
Drain pipe connection	VP25 (OD 32, ID 25)	

Specifications

360 Cassette FCU

- 360 degree air supply.
- Bladeless discharge. Booster fans can be individually controlled, allowing for completely horizontal flow discharge. Coanda effect is created even without ceiling.
- 3-Way valve kit (optional).

- Built-in condensation drain pump.
- Predisposition of the air inlet to let fresh air in.
- Compatible with Wi-Fi Kit controller.
- Circular or square cassette panel.



Model			AG060MN4PKH/EU	AG072MN4PKH/EU	AG090MN4PKH/EU	AG105MN4PKH/EU
Power Supply		Φ, V, Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz
Mode		-	HP	HP	HP	HP
Performance	Capacity (Nominal)	Cooling	kW	6.0	7.2	9.0
		Heating	kW	7.3	8.5	10.0
Power	Power Input (Nominal)	Cooling	W	58	58	77
		Heating	W	58	58	100
	Current Input (Nominal)	Cooling	A	0.50	0.50	0.62
		Heating	A	0.50	0.50	0.79
Heat Exchanger	Type	-	Fin & tube	Fin & tube	Fin & tube	Fin & tube
Fan	Type	-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Number of Fans	-	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
Fan Motor	Type	-	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
	Water Flow Rate	Heating	l/min	21.1	24.5	28.9
	Pressure Drop	Cooling	kPa	27.0	26.0	38.5
	Pressure Drop	Heating	kPa	37.6	35.6	47.4
Piping Connections	Liquid Pipe (IN)	Type	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)	Type	PF MALE	PF MALE	PF MALE	PF MALE
		ø, mm (inch)	20A (3/4)	20A (3/4)	20A (3/4)	20A (3/4)
	Heat Insulation	-	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/outlet pipes
	Drain Pipe	ø, mm	VP25 (OD 32, ID 25)			
Sound	Sound Pressure	(H/M/L)	dB(A)	40/37/32	39/35/33	43/38/33
	Sound Power	Cooling	dB(A)	57	58	60
Dimensions	Net Weight	kg	21.0	25.0	25.0	25.0
	Net Dimensions (W x H x D)	mm	947 x 281 x 947	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
Casing	Material	-	-	-	-	-
Panel	Panel Model	-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
			PC4NUNMAN	PC4NUNMAN	PC4NUNMAN	PC4NUNMAN
Additional Accessories	Drain Pump	Type	-	Built-in	Built-in	Built-in
		Max. Lifting Height/Displacement	mm/(cc/min)	750/400	750/400	750/400
	3-Way Valve Kit	(optional)		ACL-A60V3	ACL-A60V3	ACL-A60V3
	Filter	-		Microfibrous filter	Microfibrous filter	Microfibrous filter

Accessories

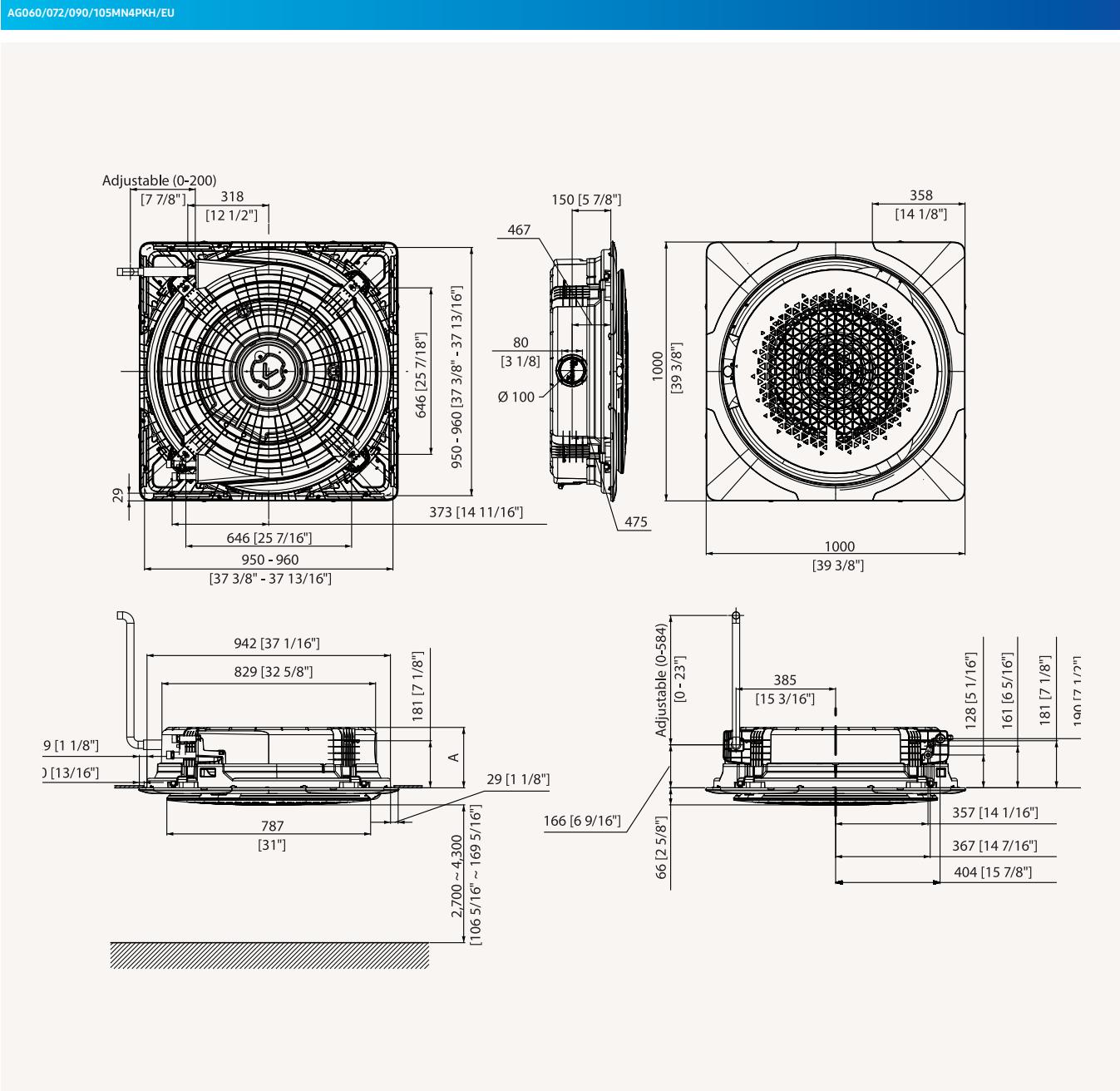


Panel (Optional)	Panel (Optional)	Panel (Optional)	Panel (Optional)	FCU Interface Module	FCU Kit	Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller
PC4NBDMAN	PC4NBNMAN	PC4NUDMAN	PC4NUNMAN	MIM-F10N	MIM-F00N	AR-EH03E	MWR-SH11N	MWR-WE13N	MWR-WG00*N

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

Dimensional drawings

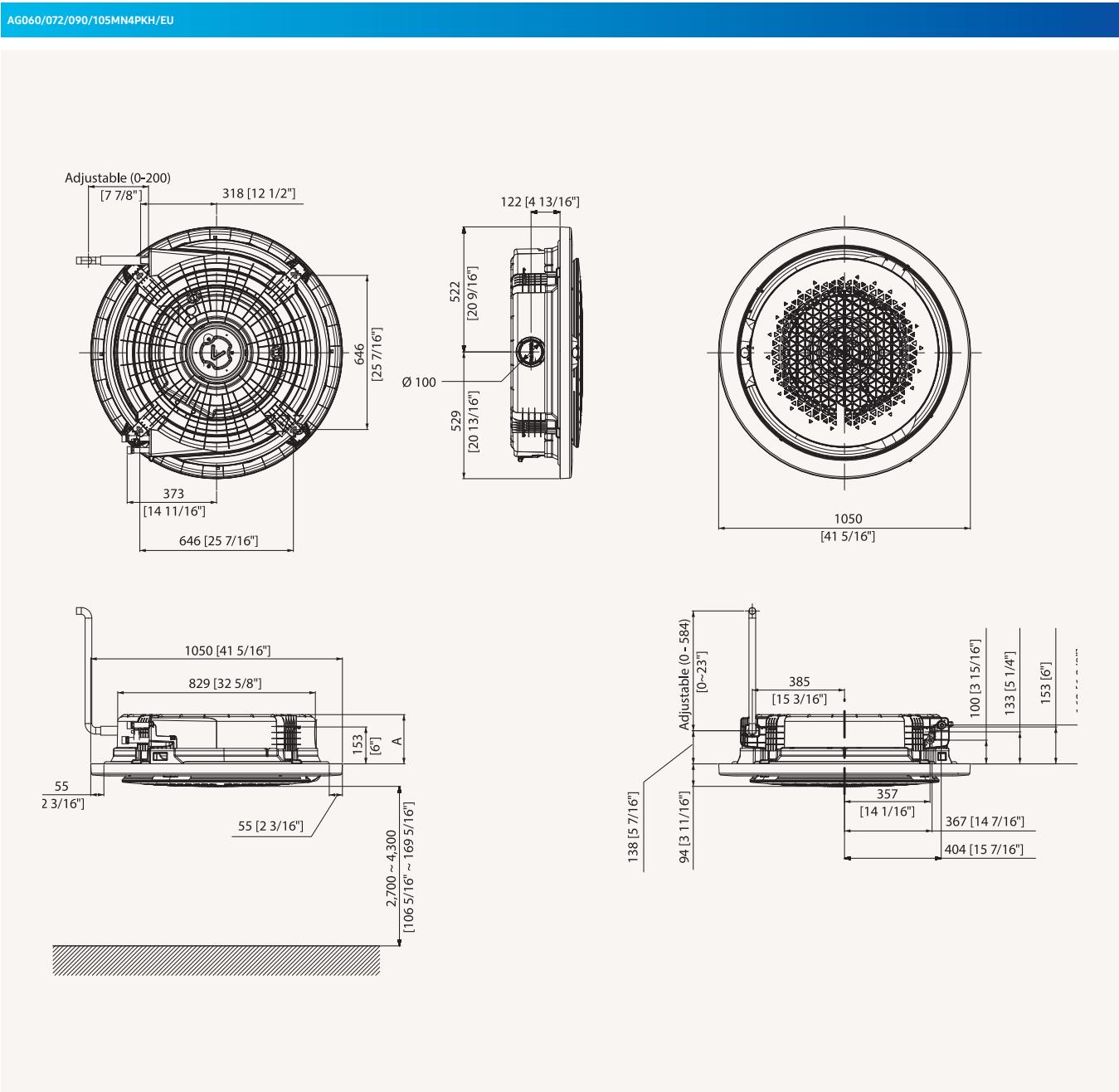
360 Cassette FCU



Pos.	A Type	B Type
Model	AG060MN4PKH/EU	AG072MN4PKH/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)

Dimensional drawings

360 Cassette FCU



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



Specifications

Concealed FCU

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



	Model		ACL-18DF	ACL-25DF	ACL-35DF
Power Supply		Φ, V, Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz
Mode		-	HP	HP	HP
Performance	Capacity (Nominal)	Cooling (H/M/L)	kW	1.91/1.66/1.34	2.87/2.34/1.73
		Heating (H/M/L)	kW	2.15/1.81/1.50	2.91/2.35/1.73
Power	Power Input (Nominal)	Cooling (H/M/L)	W	53/36/24	56/43/29
		Heating (H/M/L)	W	53/36/24	56/43/29
	Current Input (Nominal)	Cooling	A	0.26	0.28
		Heating	A	0.26	0.28
Heat Exchanger	Type	-	Fin & tube	Fin & tube	Fin & tube
Fan	Type	-	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
Fan Motor	Type	-	3-step AC	3-step AC	3-step AC
	Output x n		W	53/36/24	56/43/29
Water	Water Flow Rate	Cooling	l/min	5.6	8.4
		Heating	l/min	6.2	8.4
	Pressure Drop	Cooling	kPa	17	24
		Heating	kPa	20	24
Piping Connections	Liquid Pipe (IN)	Type		Female	Female
		Dimension	ø, mm (inch)	1/2	1/2
	Liquid Pipe (OUT)	Type		Female	Female
		Dimension	ø, mm (inch)	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 x H x D)	mm	725 x 224 x 535	935 x 224 x 535	1,145 x 224 x 535
Casing	Material	-	-	-	-
Panel	Panel Model	-	-	-	-
Additional Accessories	Drain Pump	Type	optional	ACL-ADP	ACL-ADP
		Max. Lifting Height/Displacement	mm/(cc/min)	750/133	750/133
	Heating Coil	4-pipe	optional	ACL-A018HC	ACL-A025HC
	3-Way Valve	4-pipe	optional	ACL-A018V3	ACL-A018V3
	Auxiliary Drain Pan	Vertical	optional	ACL-ADV	ACL-ADV
		Horizontal	optional	ACL-ADH	ACL-ADH
	Filter			Polypropylene washable	Polypropylene washable
					Polypropylene washable

Accessories



FCU Interface Module	FCU Kit	Touch Controller	Wired Remote Controller	Wired Remote Controller
MIM-F10N	MIM-F00N	MWR-SH11N	MWR-WE13N	MWR-WG00*N

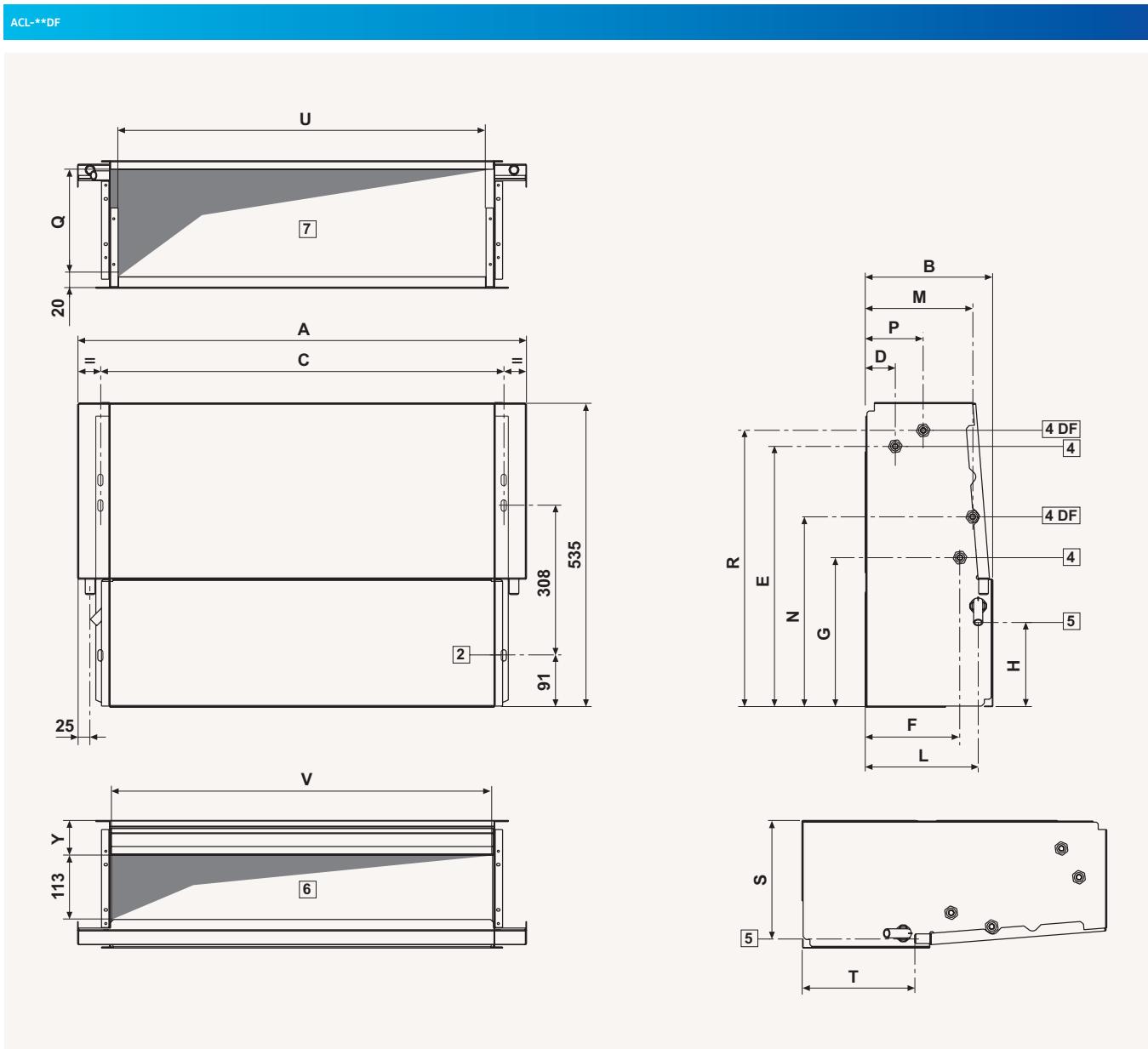
Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications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



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

Dimensional drawings

Concealed FCU



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

MODEL	A	B	C	H	L	S	T	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



Specifications

Cased FCU

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



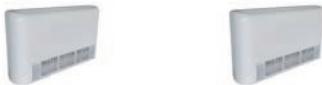
	Model		ACL-18DG	ACL-25DG	ACL-35DG
Power Supply		Φ, V, Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz	1Φ, 220–240 V, 50/60 Hz
Mode		-	HP	HP	HP
Performance	Capacity (Nominal)	Cooling (H/M/L)	kW	1.91/1.66/1.34	2.87/2.34/1.73
		Heating (H/M/L)	kW	2.15/1.81/1.50	2.91/2.35/1.73
Power	Power Input (Nominal)	Cooling (H/M/L)	W	53/36/24	56/43/29
		Heating (H/M/L)	W	53/36/24	56/43/29
	Current Input (Nominal)	Cooling	A	0.26	0.28
		Heating	A	0.26	0.28
Heat Exchanger	Type	-	Fin & tube	Fin & tube	Fin & tube
Fan	Type	-	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
Fan Motor	Type	-	3-step AC	3-step AC	3-step AC
	Output x n		W	53/36/24	56/43/29
Water	Water Flow Rate	Cooling	l/min	5.6	8.4
		Heating	l/min	6.2	8.4
	Pressure Drop	Cooling	kPa	17	24
		Heating	kPa	20	24
Piping Connections	Liquid Pipe (IN)	Type		Female	Female
		Dimension	ø, mm (inch)	1/2	1/2
	Liquid Pipe (OUT)	Type		Female	Female
		Dimension	ø, mm (inch)	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	Type	optional	ACL-ADP	ACL-ADP
		Max. Lifting Height/Displacement	mm / (cc/min)	750/133	750/133
	Heating Coil	4-pipe	optional	ACL-A018HC	ACL-A025HC
	3-Way Valve	4-pipe	optional	ACL-A018V3	ACL-A018V3
	Auxiliary Drain Pan	Vertical	optional	ACL-ADV	ACL-ADV
	Auxiliary Drain Pan	Horizontal	optional	ACL-ADH	ACL-ADH
	Filter		Polypropylene washable	Polypropylene washable	Polypropylene washable

Accessories



FCU Interface Module	FCU Kit	Touch Controller	Wired Remote Controller	Wired Remote Controller
MIM-F10N	MIM-F00N	MWR-SH11N	MWR-WE13N	MWR-WG00*N

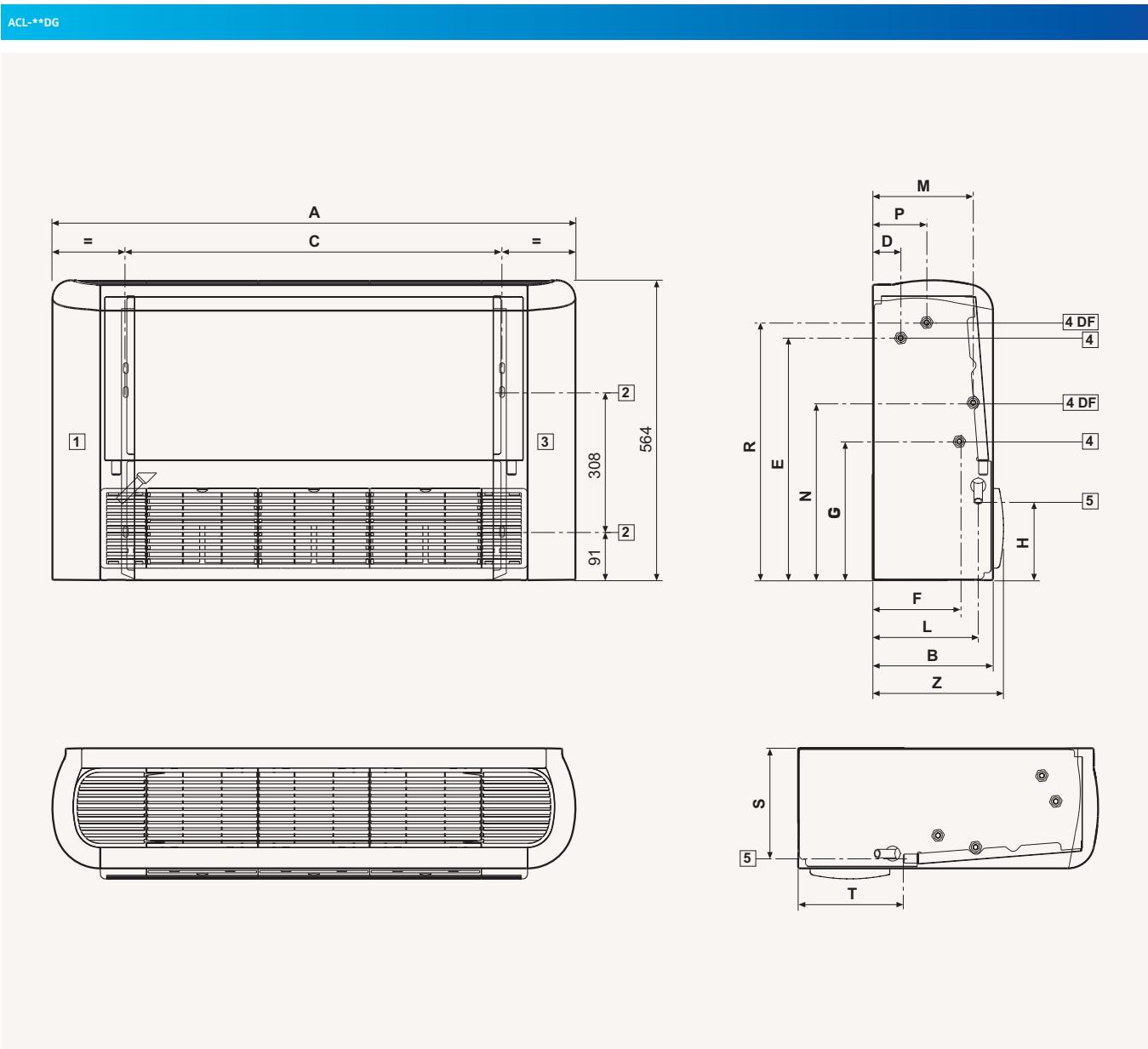
Cooling: Indoor temperature 27 °C DB, 19 °C WB/Water In/Out temperature 7 °C, 12 °C Heating: Indoor temperature 20 °C DB, 15 °C WB/Water In/Out temperature 45 °C, 40 °C. Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications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



ACL-55DG	ACL-65DG
1Φ, 220~240 V, 50/60 Hz	1Φ, 220~240 V, 50/60 Hz
HP	HP
719/5.69/4.32	7.78/6.07/4.00
719/5.69/4.32	8.37/6.53/4.39
182/127/86	244/169/109
182/127/86	244/169/109
0.90	1.20
0.90	1.20
Fin & tube	Fin & tube
Double suction centrifugal fan	Double suction centrifugal fan
3	3
16.8/12.8/9.5	23.2/17.0/10.7
3-step AC	3-step AC
182/127/86	244/169/109
21.1	22.9
20.2	24.2
39	42
35	47
Female	Female
3/4	3/4
Female	Female
3/4	3/4
-	-
-	-
53/46/39	59/52/41
61/54/47	67/60/49
45.0	45.0
1,404x564x251	1,404x564x251
-	-
-	-
ACL-ADP	ACL-ADP
750/133	750/133
ACL-A055HC	ACL-A055HC
ACL-A055V3	ACL-A055V3
ACL-ADV	ACL-ADV
ACL-ADH	ACL-ADH
Polypropylene washable	Polypropylene washable

Dimensional drawings

Cased FCU



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

MODEL	A	B	C	H	L	S	T	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



Ventilation



Specifications

ERV

- Energy recovery ventilation unit.
- Cellulose heat exchanger element.
- 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			AN026JSKLN/EU	AN035JSKLN/EU	AN050JSKLN/EU	AN080JSKLN/EU	AN100JSKLN/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50/60 Hz	1Φ, 2, 220–240 V, 50/60 Hz	1Φ, 2, 220–240 V, 50/60 Hz	1Φ, 2, 220–240 V, 50/60 Hz	1Φ, 2, 220–240 V, 50/60 Hz
Performance	Air Volume	m ³ /h	260	350	500	800	1,000
	Temperature Exchange Efficiency	Cooling Heating	Turbo/High/Low %	70/70/74 74/74/75	70/70/74 78/78/79	70/70/74 74/74/75	70/70/74 77/77/78
	Effective Enthalpy Exchange Efficiency	Cooling Heating	Turbo/High/Low %	50/50/55 70/70/76	50/50/55 70/70/76	50/50/55 70/70/76	50/50/55 70/70/76
Power	Power Input	Turbo/High/Low	W	115/80/45	115/80/50	175/120/65	330/230/125
	Current Input	Turbo	A	0.7	0.7	1.1	2.1
Fan	Airflow Rate	Turbo/High/Low	m ³ /h	260/250/180	350/350/256	500/500/360	800/800/560
	External Static Pressure	Turbo/High/Low	Pa	100/65/55	155/100/83	165/100/85	155/90/80
Noise Level	Sound Pressure ¹	Turbo/High/Low/ Quiet	dB(A)	31/28/25/22	32/29/26/23	35/32/28/24	36/33/29/25
	Sound Power		dB(A)	-	-	-	-
Field Wiring	Power Source Wire		mm ²	1.5–2.5	1.5–2.5	1.5–2.5	1.5–2.5
	Transmission Cable		mm ²	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
	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	1,220 x 340 x 1,135
	Supply/Return/Exhaust/Outside Duct Flange (ø)		mm	150	200	200	250

Accessories



CO ₂ Sensor	ERV Wired Remote Controller	Wired Remote Controller	Wired Remote Controller
MOS-C1	MWR-VH12N	MWR-WE13N	MWR-WG00*N

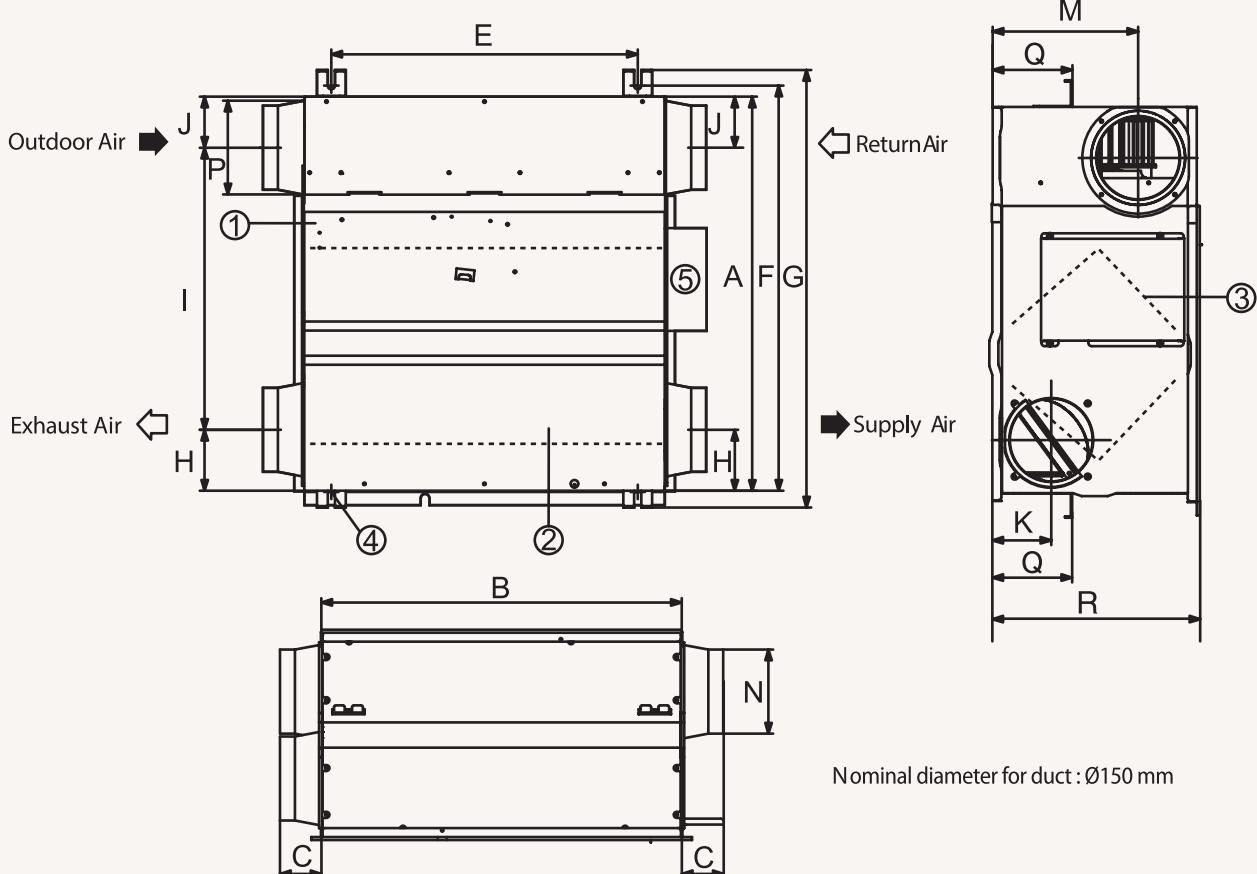
¹ Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

² Please order MOS-P1050 separately. Differential pressure switch (model code: MOS-P1050) is a mandatory accessory for all ERV and ERV Plus units in EU countries according to Ecodesign Directive 1253/2014.

Dimensional drawings

ERV

AN026JSKLKN/EU

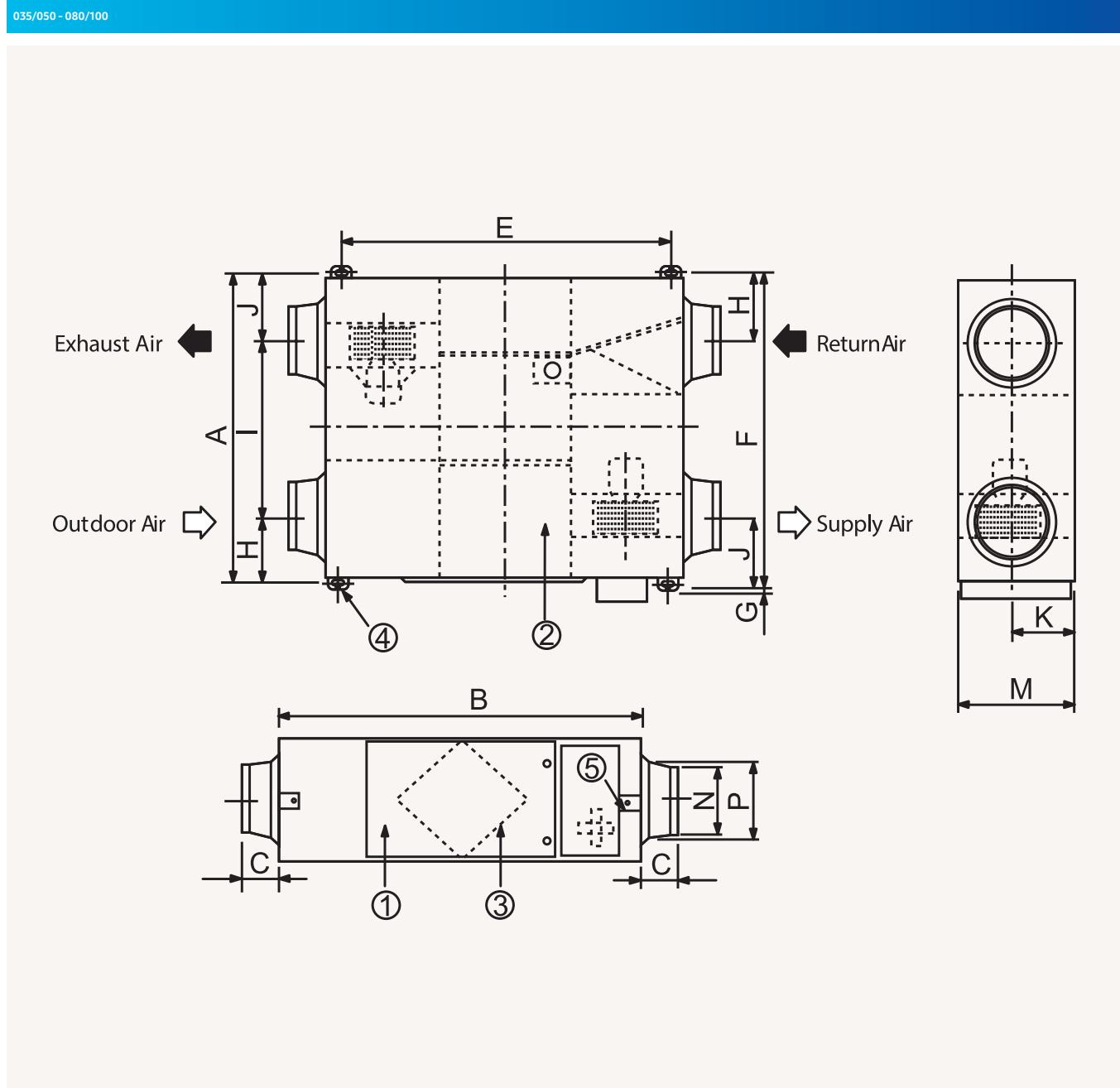


NO	Name	Description
1	Maintenance cover	1
2	Heat exchange element	1
3	Dust filter	2
4	Hanger	4
5	Electrical component box	1

Model	A	B	C	E	F	G	H	I	J	K	M	N	P	Q	R
	Length (mm)								Diameter (mm)			Length (mm)			
026	600	660	70	510	675	729	102	470	85	98	242	140	156	133	350

Dimensional drawings

ERV



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

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

Model	A	B	C	E	F	G	H	I	J	K	M	N	P	Q	R	Length (mm)		Diameter (mm)		Length (mm)	
																Length (mm)		Diameter (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								



Specifications

ERV Plus for DVM S

- Energy recovery ventilation unit with built-in direct expansion coil.
- Cellulose heat exchanger element.
- F7 class air filter.
- Two centrifugal fans direct driven by electric BLDC motor.
- Optional CO₂ sensor for automatic regulation.

- Bypass operation mode when there's a small temperature difference between indoor and outdoor environment (automatically or manually operated).
- Frost formation prevention without electric heater.
- Auto Restart function.



Model				AN026JSKLKN/EU	AN35JSKLKN/EU
Power Supply			Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
Performance	Temp. Exchange Efficiency	Cooling	Turbo/High/Low	-	70/70/74
		Heating	Turbo/High/Low	-	75/75/79
	Effective Enthalpy Exchange Efficiency	Cooling	Turbo/High/Low	-	60/60/66
		Heating	Turbo/High/Low	-	73/73/79
Fan	Outside Air Processing Capacity		Cooling (DX Coil/Element)	-	5.1 (3.6/1.5)
			Heating (DX Coil/Element)	-	6.5 (4.0/2.5)
	Airflow Rate		Turbo/High/Low (UL)	m ₃ /hr	500/500/360
				l/s	138.9/138.9/100.0
Fan	External Static Pressure		Turbo/High/Low	mmAq	16.30/10.20/8.70
				Pa	160.00/100.00/85.00
	Motor		Type	-	BLDC
			Output	W	180
Power	Quantity		-	2	2
	Power Input	Turbo/High/Low	W	220/140/90	510/350/235
	Current Input	Turbo/High/Low	A	1.7/1.0/0.6	3.7/2.4/1.6
	Piping Connections		ø, mm	6.35	6.35
Piping Connections	Liquid Pipe		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)
Field Wiring			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		mm ²	1.5/2.5	1.5/2.5
Refrigerant	Power Source Wire		mm ²	0.75–1.50	0.75–1.50
	Transmission Cable			R410A(Fluorinated greenhouse gas, GWP=2,088)	
Refrigerant	Type	-		EEV	EEV
	Control Method	-			
Sound Pressure	Sound Level	Turbo/High/Low	dB(A)	36/32/28	36/33/31
Dimensions	Net Weight		kg	61.0	90.0
	Net Dimensions (W x H x D)		mm	1,553 x 270 x 1,000	1,763 x 340 x 1,135
	Supply/Return/Exhaust/Outside Duct Flange (ø)		mm	200	250
Accessory	Air Filter	-		High Efficiency Filter (PP)	High Efficiency Filter (PP)
Accessory	SPi Ioniser	-		MSD-EAN1	MSD-EAN1
Accessory	CO ₂ Sensor	-		MOS-C1	MOS-C1
Ambient Conditions	Around Unit	-		0–40 °C DB, 80 % RH or less	0–40 °C DB, 80 % RH or less
	Outdoor Air	-		-15–40 °C DB, 80 % RH or less	-15–40 °C DB, 80 % RH or less
	Return Air	-		0–40 °C DB, 80 % RH or less	0–40 °C DB, 80 % RH or less

Accessories

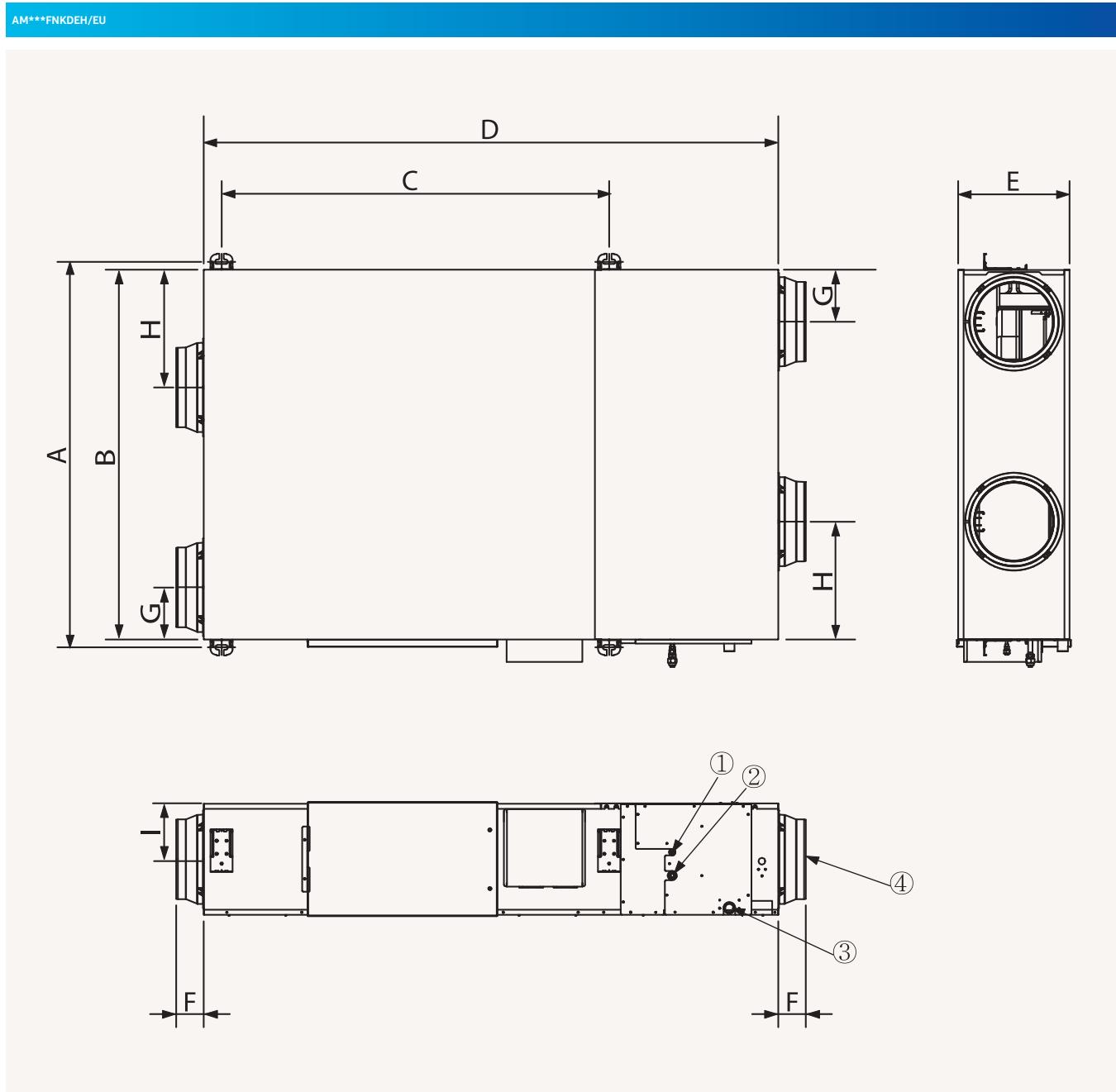


Wired Remote Controller	Wired Remote Controller	CO ₂ Sensor	SPi Ioniser
MWR-WE13N	MWR-WG00*N	MOS-C1	MSD-EAN1

¹ Please order MOS-P1050 separately. Differential pressure switch (model code: MOS-P1050) is a mandatory accessory for all ERV and ERV Plus units in EU countries according to Ecodesign Directive 1253/2014.

Dimensional drawings

ERV Plus for DVM S



NO	Name	Description
		AM050FNKDEH
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
		AM100FNKDEH
		ø250

Model	A	B	C	D	E	F	G	H	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

Specifications

OAP Duct for DVM S

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

- Auto ESP function: the fan speed is adjustable according to ductwork external static pressure.
- Can be combined with other DVM indoor units to form one system.



Model			AM140MNEPEH/EU	AM220MNEPEH/EU	AM280MNEPEH/EU
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
Performance	Capacity (Nominal)	Cooling kW	14.0	22.4	28.0
		Heating	8.9	13.9	17.4
Power	Power Input (Nominal)	Cooling W	300	450	600
		Heating	300	450	600
	Current Input (Nominal)	Cooling A	2.2	3.5	4.6
		Heating	2.2	3.5	4.6
Heat Exchanger	Type		Fin & tube	Fin & tube	Fin & tube
	Material	Fin	Al	Al	Al
		Tube	Cu	Cu	Cu
Fan	Motor	Type	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output x n W	183 x 1	630 x 1	630 x 1
		Number of Fans	2	2	2
	Airflow Rate	H/M/L m³/min	18	28	35
		I/s	300.0	466.7	583.3
	External Pressure	Min/Std/Max mmAq	15.30/20.40/25.50	18.40/23.40/29.60	20.40/25.50/30.60
		Pa	150.00/200.00/250.00	180.00/230.00/290.00	200.00/250.00/300.00
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	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)
Field Wiring	Transmission Cable	Min. mm²	0.75	0.75	0.75
Refrigerant	Type	-	R410A(Fluorinated greenhouse gas, GWP=2,088)	EEV (INCLUDED)	EEV (INCLUDED)
	Control Method	-	EEV (INCLUDED)	EEV (INCLUDED)	EEV (INCLUDED)
Noise Level	Sound Pressure ¹	H/M/L dB(A)	42	46	47
	Sound Power	Cooling dB(A)	65	66	69
Dimensions	Net Weight	kg	49.0	81.5	81.5
	Net Dimensions (W x H x D)	mm	1,210 x 370 x 656	1,360 x 460 x 910	1,360 x 460 x 910
Additional Accessories	Drain Pump	Drain Pump	MDP-N047SNC0D	MDP-N047SNC1D	MDP-N047SNC1D
		Max. Lifting Height/Displacement mm / litres/h	750/24	750/24	750/24
	AirFilter	-	Removable/Washable	Removable/Washable	Removable/Washable

Accessories

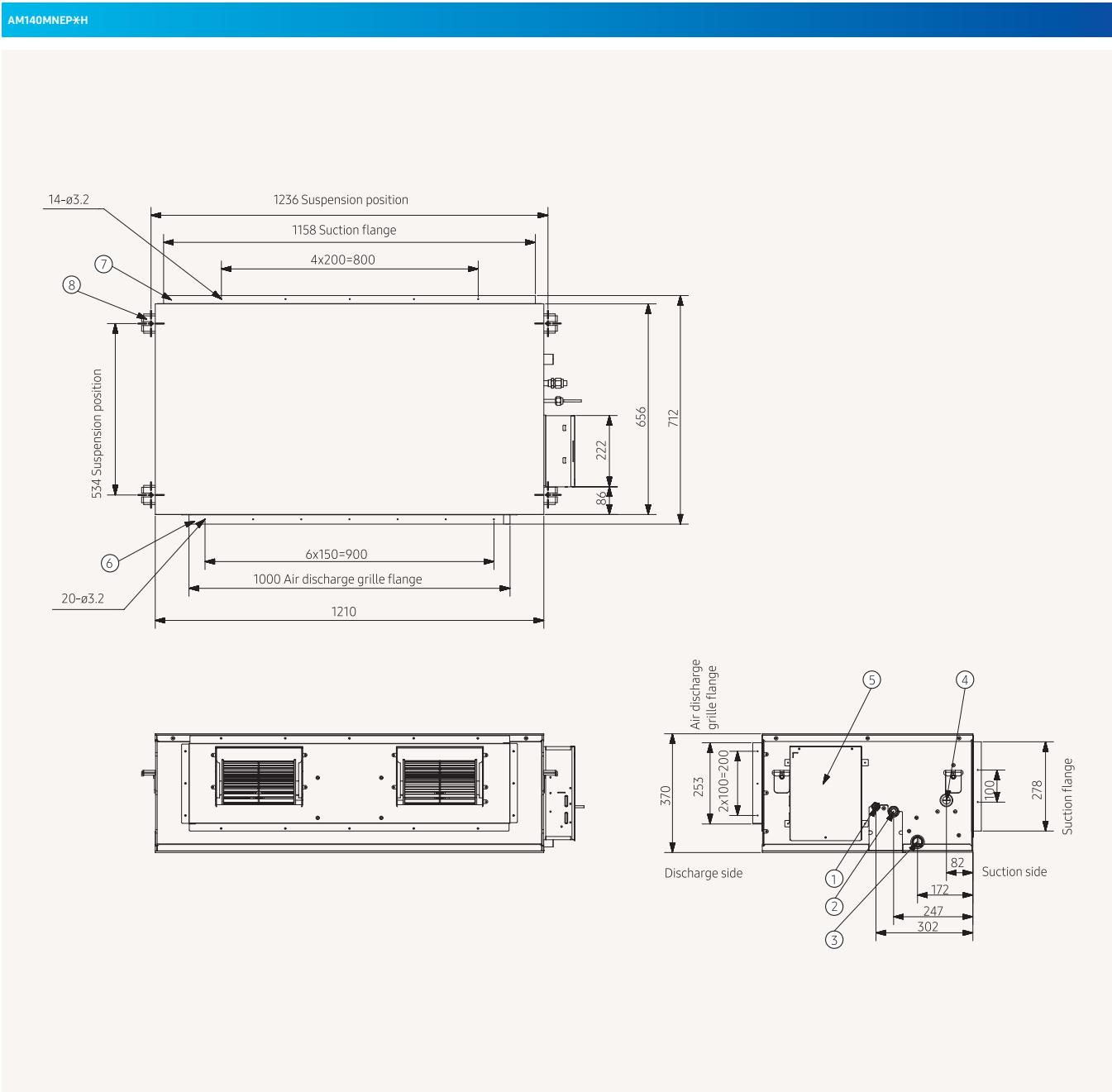


Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wired Remote Controller	Wi-Fi Kit	Wireless Receiver Kit	External Room Sensor
AR-EH03E (to be matched with MRK-A10N)	MWR-SHT1N	MWR-WE13N	MWR-WG00*N	MIM-H04EN	MRK-A10N (to be matched with AR-EH03E)	MRW-TA

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

Dimensional drawings

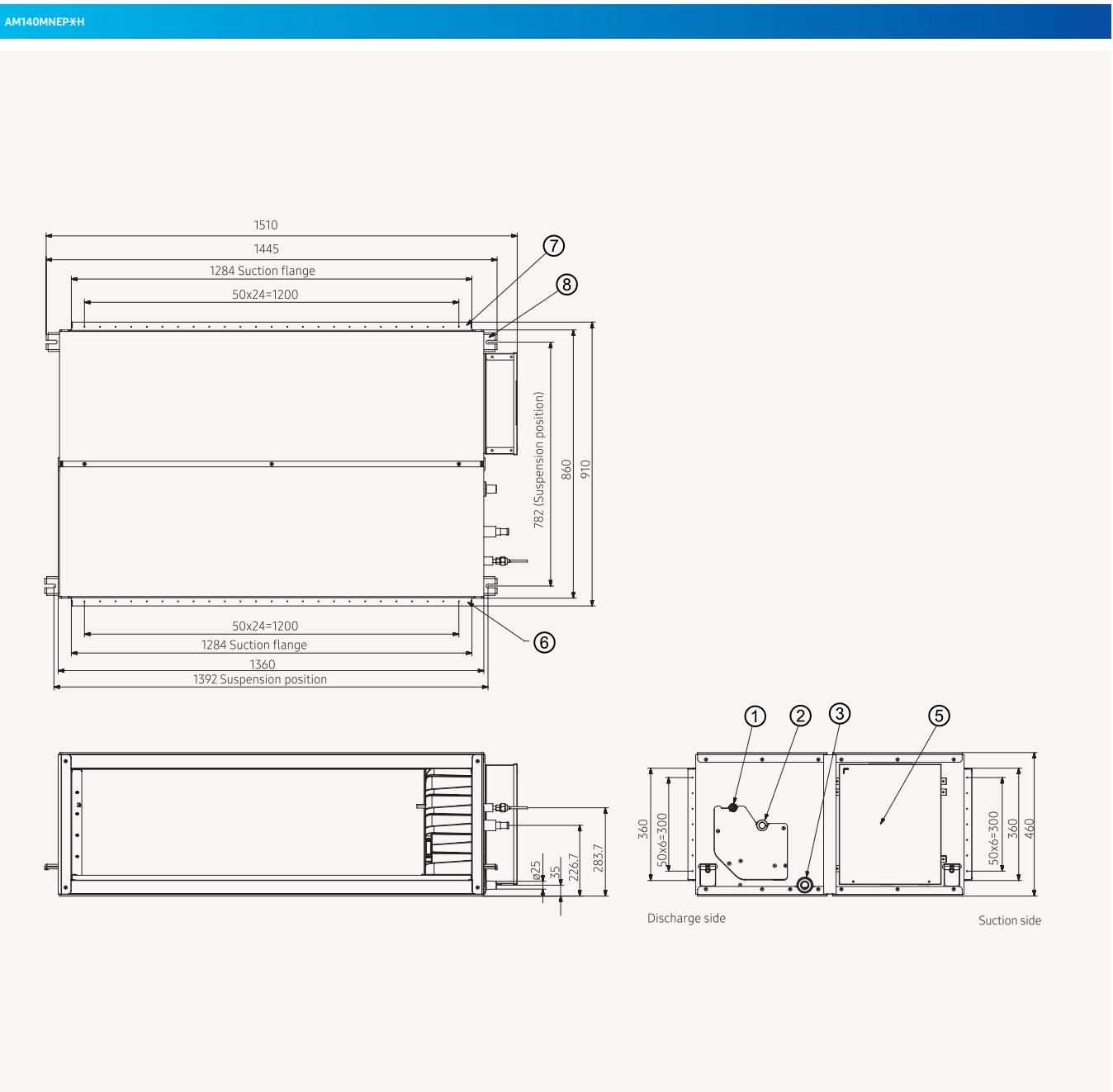
OAP Duct for DVM S



NO	Name	Description
1	Diameter of liquid pipe	$\varnothing 9.52$
2	Diameter of air pipe	$\varnothing 15.88$
3	Diameter of drain pipe	OD $\varnothing 25$, ID $\varnothing 20$
4	Diameter of drain pipe (Optional drain pump)	OD $\varnothing 25$, ID $\varnothing 20$
5	Power supply/Communication wiring conduit	
6	Air discharge grille flange	
7	Suction flange	
8	Hook	$\varnothing 9.52$ or M10

Dimensional drawings

OAP Duct for DVM S



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





Controls



Line-up

	Product	Model	Image	Matchable Products
Individual Control System	Wireless Remote Controller	AR-EH03M AR-EH03E		DVM, FJM, CAC
	Wireless Remote Controller	AR-KH03E		CAC, DVM *only for 360 Cassette
	Wired Remote Controller	MWR-WE13N		DVM, CAC, FJM
	Wired Remote Controller	MWR-WG00*N		DVM, CAC, FJM, ERV
	Simple Type Controller	MWR-SHOON		DVM, CAC
	Touch Type Controller	MWR-SH11N		DVM, CAC (with Wind-Free™ function)
	ERV Wired Remote Controller	MWR-VH12N		ERV
	Wireless Receiver Kit	MRK-A10N		DVM, CAC (only duct models)
Centralised Control System	ON/OFF Controller	MCM-A202DN		DVM, FJM, CAC, ERV Plus, EHS Split/Mono
	Touch Centralised Controller	MCM-A300N		DVM, FJM, CAC, ERV Plus, EHS Split/Mono
	Wi-Fi Kit	MIM-H04EN		All
	Module Controller	MCM-A00N		DVM Chiller

	Product	Model	Image	Matchable Products
Gateway System	BACnet Gateway	MIM-B17BN		DVM, FJM, CAC, ERV Plus, EHS Split/Mono
	LonWorks Gateway	MIM-B18BN		DVM, FJM, CAC, ERV Plus, EHS Split/Mono
	External Contact Interface Module	MIM-B14		DVM, RAC, FJM, CAC, EHS
	PIM (Pulse Interface Module)	MIM-B16N		DVM, FJM, CAC, ERV Plus, EHS Split/Mono
	Interface Module (Converter RS485 to NASA)	MIM-N01		FJM, CAC, EHS
	ERV Interface Module (Converter RS485 to NASA)	MIM-N10		ERV
	FCU Interface Module	MIM-F10N		Chiller
Installation/Test Run Solution	S-Converter	MIM-C02N		
Others	External Room Sensor	MRW-TA		DVM, FJM, CAC
	Operation Mode Selection Switch	MCM-C200		
	MTFC (Multi-Tenant Function Controller)	MCM-C210N		
Integrated Management System	DMS2.5	MIM-D01AN		DVM, FJM, CAC, ERV Plus, EHS Split/Mono
	S-NET3	MST-P3P		
	b.IoT	MST-BL1A		

Compatibility guide

Classification	Product	Model	Image	DVM	HVM Chiller	Water FCU
Individual Control System	Wireless Remote Controller	AR-EH03M AR-EH03E		●		●
	Wireless Remote Controller (360 Cassette only)	AR-KH03		●		●
	Wired Remote Controller	MWR-WE13N		●		●
	Wired Remote Controller	MWR-WG00*N		●		●
	Simple Type Controller	MWR-SH00N		●		●
	Touch Controller	MWR-SH11N		●		●
	ERV Wired Remote Controller	MWR-VH12N				
	Wireless Receiver Kit	MRK-A10N		●		
Centralised Control System	Touch Centralised Controller	MCM-A300N		●	●	●
	ON/OFF Controller	MCM-A202DN		●	●	●
	Wi-Fi Kit	MIM-H04EN		●		●
	Module Controller	MCM-A00N			●	
Integrated Management System	DMS 2.5	MIM-D01AN		●	●	●
	S-NET3	MST-P3P		●		
Gateway System	BACnet Gateway	MIM-B17BN		●	●	●
	Lonworks Gateway	MIM-B18BN		●	●	●
	Modbus Interface Module	MIM-B19N		●	●	●
	PIM (Pulse interface module)	MIM-B16N		●	●	●
	External Contact Interface Module	MIM-B14		●	●	●
		MIM-B14A (refrigerant leakage detector)		●		
	Interface Module Converter (RS485-NASA)	MIM-N01		●		
	ERV Interface Module Converter (RS485-NASA)	MIM-N10				
	FCU Interface Module	MIM-F00N MIM-F10N				●
Installation/ Test Run Solution	S-Converter	MIM-C02N		●	●	●
Others	External Room Sensor	MRW-TA		●		●
	Operation Mode Selection Switch	MIM-C200		●		
	MTFC (Multi-Tenant Function Controller)	MCM-210N		●		

Selection guide



Model		MWR-WG00*N	MWR-WE13N	MWR-SH11N	MWR-VH12N
Appearance	Dimensions	120.0 x 120.0 x 19.0	120.0 x 124.0 x 19.5	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	●	●	●	●
	Air swing	●	●	●	
	Room temperature display	●			
	°C convertible	●	●	●	
	Filter cleaning alarm reset	●	●	●	
	Air quality display	●			
	Purification display	●			
	Display indoor model number	●			
	Error display	●	●	●	●
	Error list	●			
Schedule	Weekly schedule	●	●		
	Simple ON/OFF timer			●	●
Convenient function	Dual set point	●			
	Multiple languages	●			
	Built-in room sensor	●	●	●	
	LCD backlight	●	●	●	
	Wireless RC restriction	●	●	●	
	Child lock	●	●	●	
	Partial button lock	●	●	●	
	Quiet mode	●	●	●	
	Sleep mode	●	●	●	
	Away mode (SAC)	●		●	
	Away mode (ERV)				●
	IR receiver	●		●	
	Real-time clock		●		
	Daylight saving time	●	●		
	Individual blade control	●	●		
Energy saving	CO ₂ display	○ ERV	○ ERV		●
	Humidity display	○ ERV	○ ERV		
	Purification mode	○ ERV	○ ERV		
	Temperature range limit	●	●	●	
	Automatic operation stop	●	●		
	Operation time limit	●			
	Energy consumption monitoring	●			
	Energy saving mode with ERV	●	●		
Maintenance	SD slot	●			

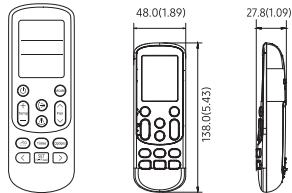


Features and Dimensional drawings

Individual Control System

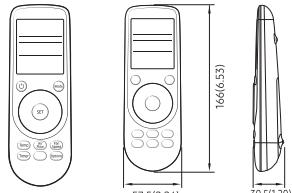
Wireless Remote Controller AR-EH03E / AR-EH03M

- Operation ON/OFF control
- Fan speed control
- Operation temperature setting
- Wind-Free™ Cooling function
- Filter replacement alarm reset
- Air swing control
- Simple ON/OFF timer
- Indoor unit option code setting
- Option/Setting selection



Wireless Remote Controller AR-KH03E

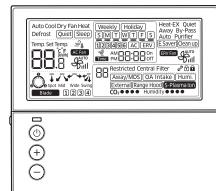
- 360 Cassette airflow direction control
- Operation ON/OFF control
- Fan speed control
- Operation temperature setting
- Filter replacement alarm reset
- Simple ON/OFF timer
- Indoor unit option code setting



Wired Remote Controller MWR-WE13N / MWR-WG00*N

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

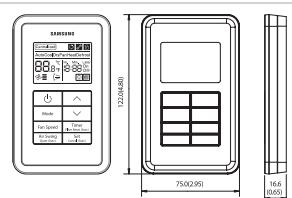
- Weekly operating schedule (A/C only, ERV only, A/C+ERV)
- Set desired AC operation mode, temperature and fan speed to operate based on a weekly schedule
- Apply schedule exception day
- Energy consumption monitoring (MWR-WG00*N)
- Operation time limit (MWR-WG00*N)

User convenience function

- Child lock
- Different button permission levels
- Room temperature display (MWR-WG00*N)
- Dual set point (MWR-WG00*N)
- 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 (MWR-WG00*N)
 - SD card slot (MWR-WG00*N)

Simple Type Controller MWR-SHOON

- 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



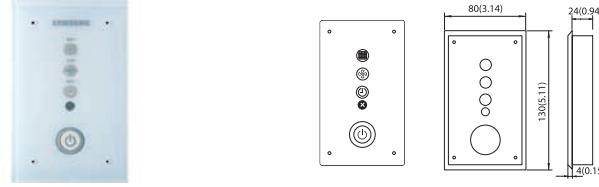
Touch Controller MWR-SH11N

- Bigger display: clear & bright backlight screen with big fonts
- Wind-Free™ button: control Wind-Free™ 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

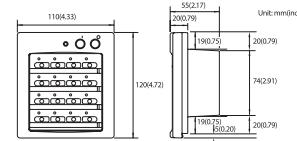
- Concealed wireless signal receiver
- Filter replacement sign
- Fan operation display
- Operation Timer setting display
- Operation ON/OFF button
- Operation On display LED (blue)
- Defrost operation display LED (red)



Centralised Control System

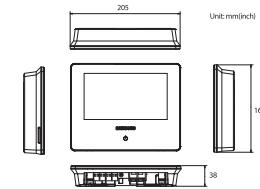
ON/OFF Controller MCM-A202DN

- 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 MCM-A300N

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



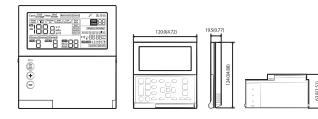
Wi-Fi Kit MIM-H04EN

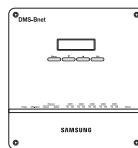
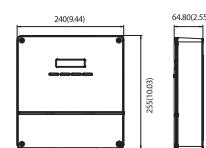
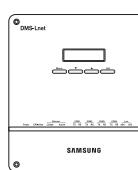
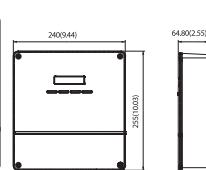
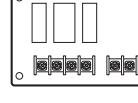
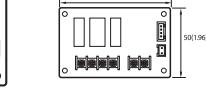
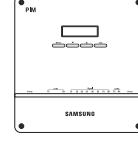
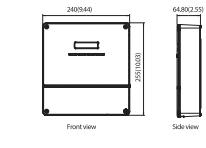
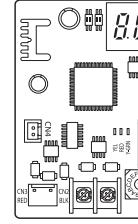
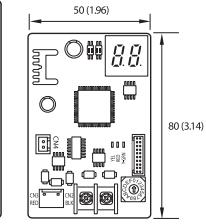
- Controls and monitoring system air conditioner by mobile phone. (Max. 16 units)
- Weekly schedule setting
- Group control and monitoring (ON/OFF)
- Current/daily/weekly/monthly energy usage data of outdoor unit. (This function is available in certain outdoor unit models)



Module Controller MCM-A00N

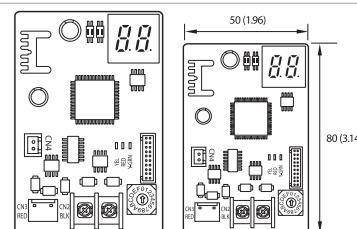
- DVM CHILLER ON/OFF control (Module/Group)
- Operation mode, water outlet temperature setting
- Optional operation setting
- Module/Group setting
- Weekly operation schedule setting



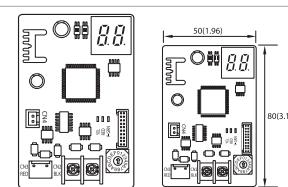
Gateway System			
BACnet Gateway MIM-B17BN			  
LonWorks Gateway MIM-B18BN			  
External Contact Interface Module MIM-B14			  
PIM (Pulse Interface Module) MIM-B16N			  
Interface Module MIM-N01			  

**Interface Module (Converter RS485 to NASA)
MIM-N10**

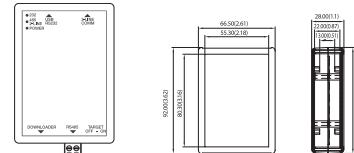
- Communication interface module between new communication ERV and controller
- Connect one ERV interface module to a maximum of 16 ERVs
- Individual control - maximum of 16 ERVs
- Group control - maximum of 16 groups
- Supported communication type
 - Conventional ERV communication ↔ New upper level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


**FCU Interface Module
MIM-F10N**

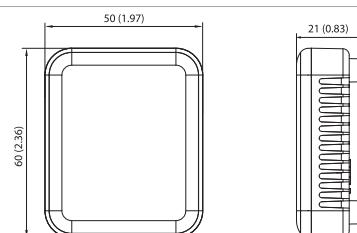
- Communication interface module
- Connect one FCU interface module to a maximum of 16 FCU Kits.
- Supports FCU Kit only


**S-Converter
MIM-C02N**

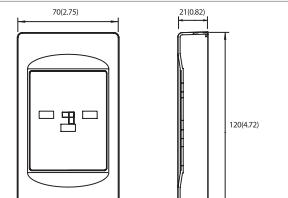
- Communication converting module to connect Samsung system air conditioner to a PC.
- Main purpose for use
 - To connect with test run programme [Test run programme]
 - S-NET Pro: Conventional communication
 - S-NET Pro2: New communication


**External Room Sensor
MRW-TA**

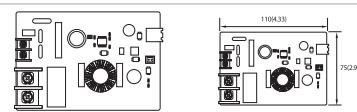
- Indoor unit is operated by MRW-TA instead of its own sensor.
- Wire length: 12 m (39 ft)

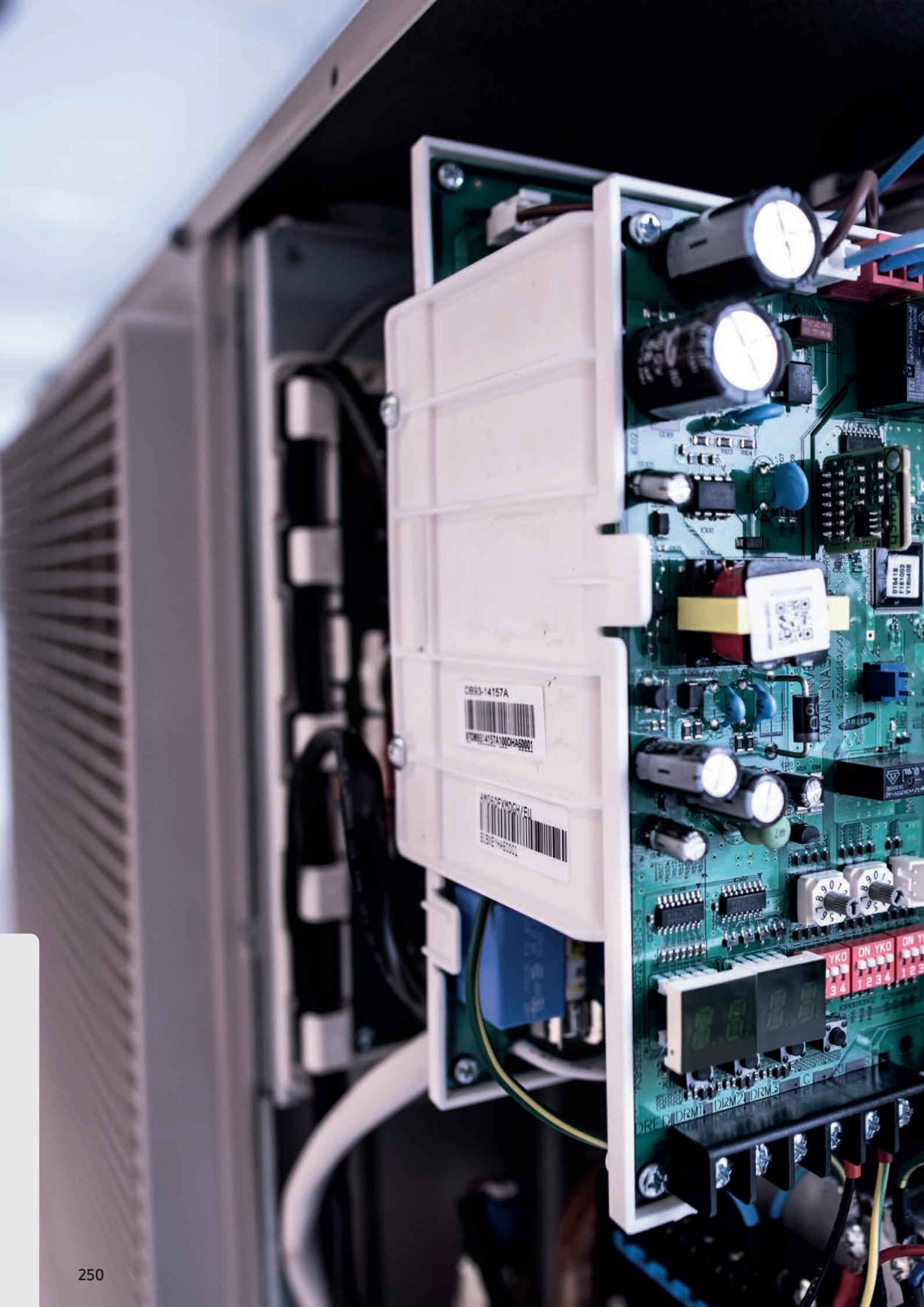

**Operation Mode Selection Switch
MCM-C200**

- Outdoor unit operation mode selection (Cooling, Heating or Auto)
- 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.
- It is used on sites such as hotels, where individual power is supplied to the indoor unit







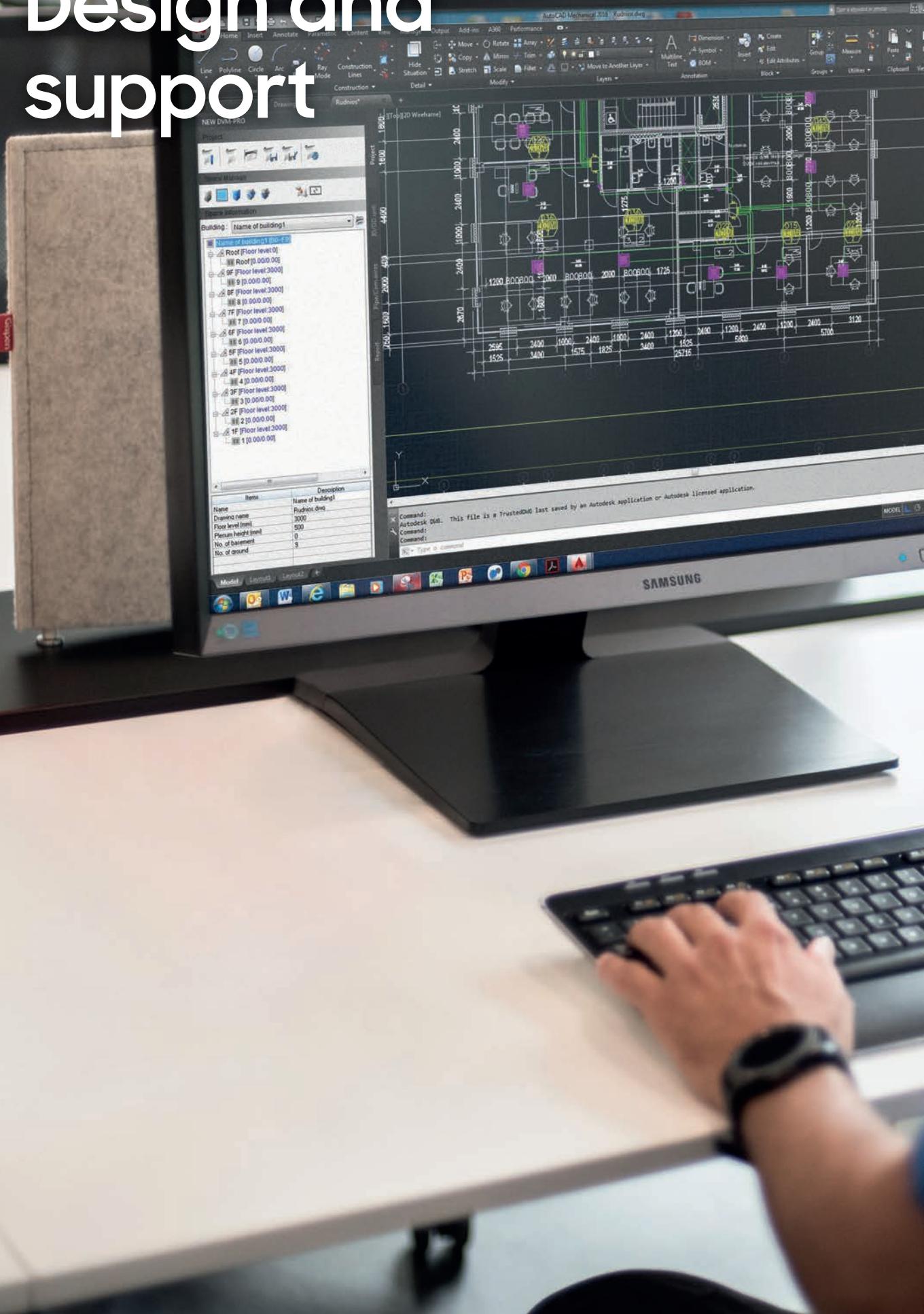
Accessories

Line-up

Classification	Image	Model DVM S (New Communication Protocol)	Application
Drain Pump		MDP-E075SEE3D	Slim Duct (2.0~14.0 kW)
		MDP-M075SGU1D	MSP Duct (9.0/11.2 kW)
		MDP-M075SGU2D	MSP Duct (12.8/14.0 kW) HSP Duct (11.2/14.0 kW)
		MDP-M075SGU3D	MSP Duct (5.6/7.1 kW)
		MDP-N047SNC0D	Fresh Air Intake Duct (14.0 kW)
		MDP-N047SNC1D	HSP Duct (22.4/28.0 kW) Fresh Air Intake Duct (14.0 kW)
		MDP-G075SP	Global Duct (External Type)
		MDP-G075SQ	Global Duct (Internal Type)
AHU Kits		MDX-K025AN	7.00~8.75 kW AHU
		MDX-K050AN	14.00~17.50 kW AHU
		MDX-K075AN	21.00~26.25 kW AHU
		MDX-K100AN	28.00~35.00 kW AHU
		MDX-A64K100E	AHU EEV Kit (10 hp)
		MCM-D201N	Control Kit (PBA, 10 hp~40 hp)
360 Cassette Front Panel		PC4NUDMAN	NASA, Square
		PC4NBDMAN	NASA, Square - Black
		PC4NUNMAN	NASA, Circle (exposed installation)
		PC4NBNMA	NASA, Circle (exposed installation) - Black
Wind-Free™ 4-Way Cassette Front Panel		PC4NUFMAN	Wind-Free™ 4-Way Cassette
4-Way Cassette Front Panel		PC4NUSKAN	4-Way Cassette S - Waffle
		PC4NUSKEN	4-Way Cassette S - Classic
		PC4NBSKAN	4-Way Cassette S - Black
Wind-Free™ 4-Way Cassette Front Panel (600 x 600)		PC4SUFMAN	Wind-Free™ 4-Way Cassette (600 x 600)
Wind-Free™ 1-Way Cassette Front Panel		PC1NWFMAN	
1-Way Cassette Front Panel		PC1BWSMAN	1-Way Cassette (New Air Fluid Design) (1.7~2.2 kW)
		PC1NUSMAN	Slim 1-Way Cassette (2.2~3.5 kW)
		PC1NUPMAN	Slim 1-Way Cassette Z-Sliding (2.2~3.5 kW)
SPi Ioniser		MSD-CAN1	Big Ceiling, 360 Cassette, Wind-Free™ 4-Way Cassette
		MSD-EAN1	Duct S, ERV (Plus)
Motion Detect Sensor		MCR-SMA	4-Way Cassette S (600 x 600)
		MCR-SMC	Wind-Free™ 4-Way Cassette
		MCR-SMD	Small chassis Wind-Free™ 4-Way Cassette
		MCR-SME	360 Cassette

Classification	Image	Model	Application
Y-joint		MXJ-YA1509M MXJ-YA2512M MXJ-YA2812M MXJ-YA2815M MXJ-YA3419M MXJ-YA4119M MXJ-YA4422M	15.0 kW and below Over 15.0 kW~40.0 kW and below Over 40.0 kW~45.0 kW and below Over 45.0 kW~70.3 kW and below Over 70.3 kW~98.4 kW and below Over 98.4 kW~135.2 kW and below Over 135.2 kW
Y-Joint (HR Only)		MXJ-YA1500M MXJ-YA2500M MXJ-YA3100M MXJ-YA3800M	22.4 kW and below Over 22.4 kW~70.3 kW and below Over 70.3 kW~135.2 kW and below Over 135.2 kW
Y-Joint (Outdoor Unit)		MXJ-TA3419M MXJ-TA4122M	135.2 kW and below 140.2 kW and over
Y-Joint (HR Outdoor Unit)		MXJ-TA3100M MXJ-TA3800M	135.2 kW and below 140.2 kW and over
Y-Joint (for MCU)		MXJ-YM1509M MXJ-YM1206M MXJ-YM1206R	Over 16.0 kW~28.0 kW and below Over 6.0 kW~14.0 kW and below Over 6.0 kW~14.0 kW and below
Distribution Header		MXJ-HA2512M MXJ-HA3115M MXJ-HA3819M	45.0 kW and below (for 4 rooms) 70.3 kW and below (for 8 rooms) Over 70.3 kW~135.2 kW and below (for 8 rooms)
Heat Recovery Changer		MCU-R4NEK0N MCU-S6NEK3N	
MCU		MCU-S6NEK2N MCU-S4NEK3N MCU-S2NEK2N MCU-S1NEK1N	6 ports, max 61.6 kW (~16 kW/port) 4 ports, max 61.6 kW (~16 kW/port) 2 ports, max 32.0 kW (~16 kW/port) 1 ports, max 16.0 kW (~16 kW/port)
EEV Kit	  	MXD-E24K132A MXD-E24K200A MXD-E32K200A MXD-E24K232A MXD-E24K300A MXD-E32K224A MXD-E32K300A MEV-E24SA MEV-E32SA	2 Indoor 3 Indoor 1 Indoor
PDM (Pressure Drop Modulation) Kit		MXD-A38K2A MXD-A12K2A MXD-A58K2A	8~12 hp 14~16 hp 18~26 hp

Design and support





Samsung Climate Solutions Partner Portal

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

Access technical resources

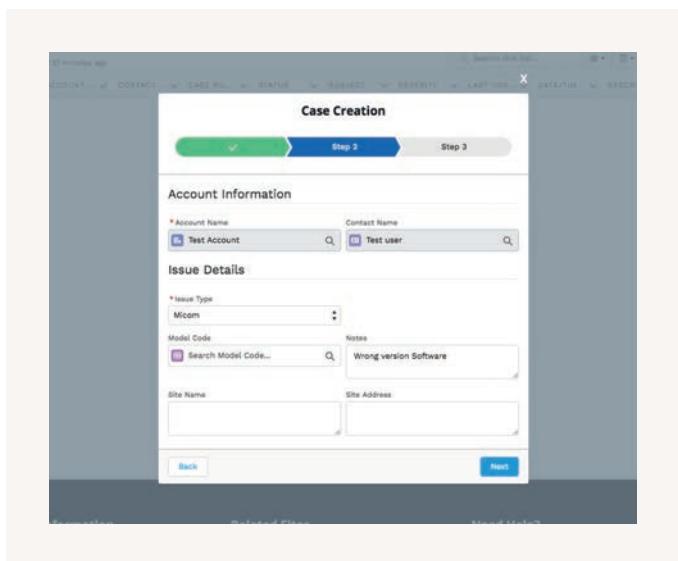
The Technical Resources section provides you with all of the relevant information you need to understand the product's functionality and to prepare and design projects. A library full of technical information is at your fingertips, ranging from technical data books, BIM files and certificates to exploded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

This screenshot shows the 'Technical Resources' section of the Samsung Climate Solutions Partner Portal. On the left, there's a sidebar with categories like Product (Air to Water Heating, Commercial, Multi Split, Ventilation, Controls & Accessories, VRF & Chiller, Residential) and Category (Technical Resources, Applications, Drawings, EFRON, IEC, Exploded View, Firmware, Installation Guide, Motion Graphic, Service Bulletin, Service Manual, Technical Data Book, Technical Tip). In the center, there's a 'Resource Spotlight' section featuring four cards: 'Single Technical Data Book' (Wind-Free 4-Way Cassette), 'RAC Technical Data Book' (2018 Global RAC TDB), and two other RAC TDB cards for Thailand and America. Below this is a 'Recommendation' section with links to various documents like 'MCU-SZNEGN MCU-SZNEGN' and 'AJ070MCHEU AJ070MCHEU'. At the bottom, there are two service manual links: 'AJ070MCHEU AJ070MCHEU' and 'AJ070MCHEU AJ070MCHEU'.

This screenshot shows the 'Sales/Marketing Resources' section of the Samsung Climate Solutions Partner Portal. It features a 'Resource Spotlight' with images of Wind-Free 4-Way Cassette, 360 Cassette Reference Global, and Wind-Free Wall-Mount. Below this is a 'Recommendation' section with links to various documents like 'AR12N0PXBW0EUL AR12N0WXBW0EUL' and 'AR12HSSOPWK0EE AR12HSFSPWK0EE AR12KSPSQW0EE'. At the bottom, there are two links: '30803-02728C AR12N0PXBW0EUL AR12N0WXBW0EUL' and '30803-02728C AR12HSSOPWK0EE AR12HSFSPWK0EE AR12KSPSQW0EE'.

Obtain marketing resources

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



Request technical support

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

Register for training

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

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



Register



Access



Manage account



Search and download

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.

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

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

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 Portal.

Samsung DVM Pro 2.0

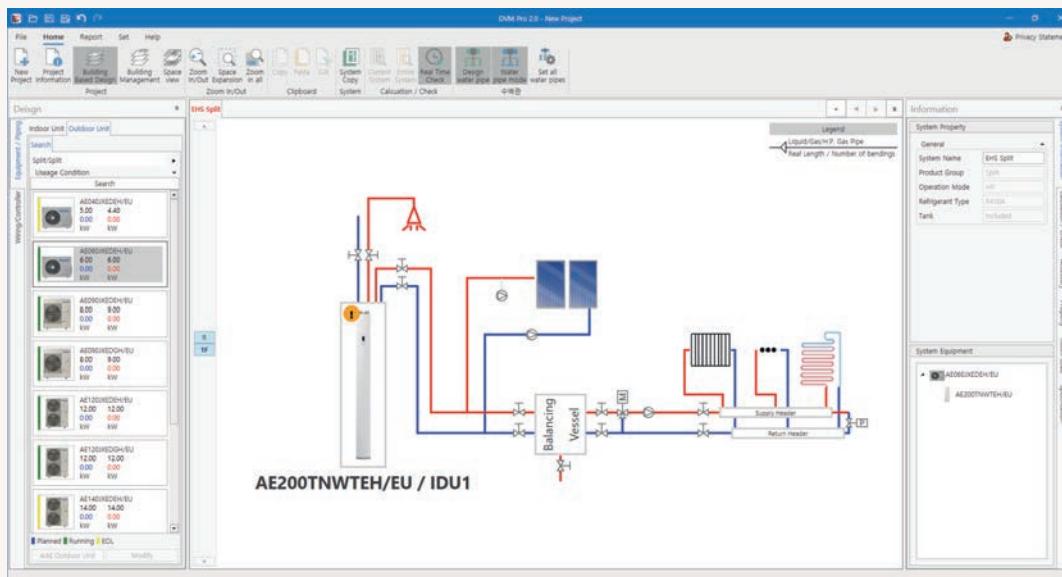
NEW

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

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

Sales Mode

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



Product selection

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

Piping schematics

Basic or manual selection with system check and capacity simulation

Reports

Specifications, diagrams in DWG & BMP format, quotations

Control systems

Automatic control unit selection

Updated Toolbar NEW

User-friendly tool bar helps to guide intuitively

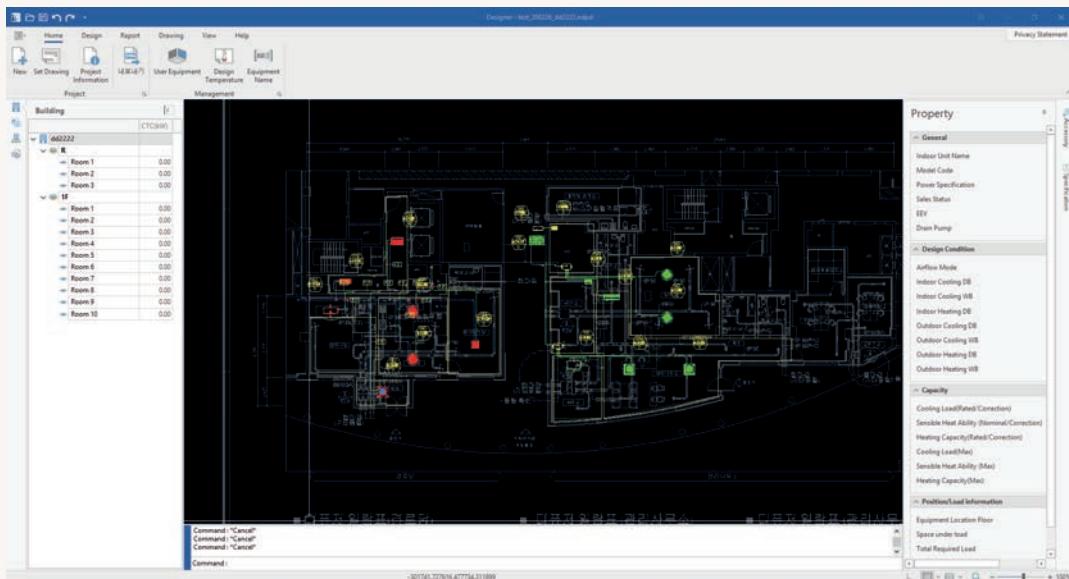
Wiring schematics

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

CAD Mode

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

¹ Sourced separately.



Pipe sizing & lengths

Refrigerant & drain pipe sizing

System check

Installation regulation & refrigerant charging

Automatic selection

Refnet joint, header & distributor kit

Performance simulation

Capacity correction tool against specific design conditions

Automatic report

Piping installation

Design without AutoCAD NEW

Compatible with AutoCAD and AutoCAD LT for DWG.

How to access



Register



Select tools



Download

Go to partnerhub.samsung.com/climate to access the Samsung Climate Solutions Partner Portal¹. If you do not have access yet, simply complete the registration process and you will be sent access details.

Go to Technical Resources via the main menu and select the option Design Tools from the sub menu.

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

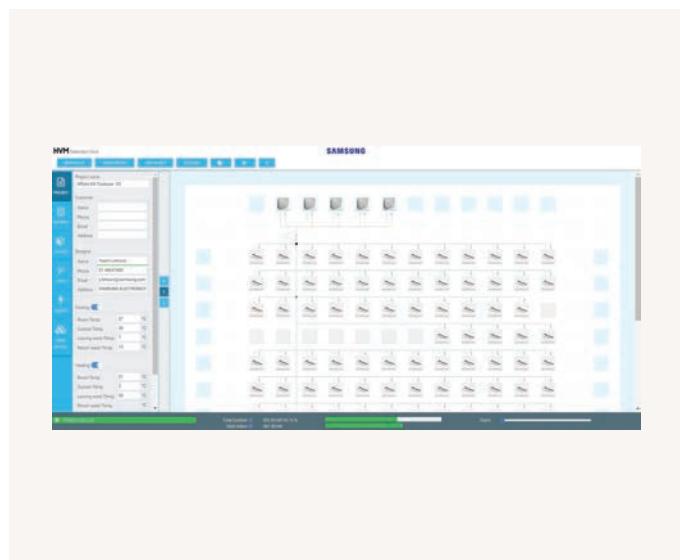
¹Google Chrome is the recommended web browser for using the Samsung Climate Solutions Partner Portal.

Samsung HVM Selection Tool

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

Easy system configuration

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



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.

SAMSUNG				HVM			
Equipment List							
Outdoor Devices							
Model Name	Quantity	Cooling Total capacity (kW)	Cooling Fcc. Zone (Zone)	Heating Total capacity (kW)	Heating Fcc. Zone (Zone)		
ASCHD-10000H	1	40.00	11.12	24.00	12.00		
ASCHD-10000H	4	40.00	28.00	34.70	24.40		
Total	5	200.00	51.84	148.00	72.00		
Indoor Devices							
Model Name	Quantity	Cooling Total capacity (kW)	Cooling Total capacity (kW)	Heating Total capacity (kW)	Heating Total capacity (kW)		
ASCHD-10000H	35	2.28	1.78	—	3.22		
ASCHD-10000H	80	3.00	2.00	—	3.00		
Total	115	54.00	34.80	—	9.62		
Valves							
3 way valve(4) (incl. shuttle and balancing valve)	1	—	—	—	—		
3 way valve(4) (incl. shuttle and balancing valve)	1	—	—	—	—		
Shuttle valve (unit -> zone -> return)	1	—	—	—	—		
Shuttle valve (unit -> zone -> return)	1	—	—	—	—		
Shuttle valve (unit -> zone -> return)	1	—	—	—	—		
Accessories							
Product	Name	Quantity					
MCH-BE01	Data Management server (SMH2)	1					
MCH-AB01	SMS Other module Controller	1					

Tender specifications file

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

How to access



Access



Design



Support

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

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

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

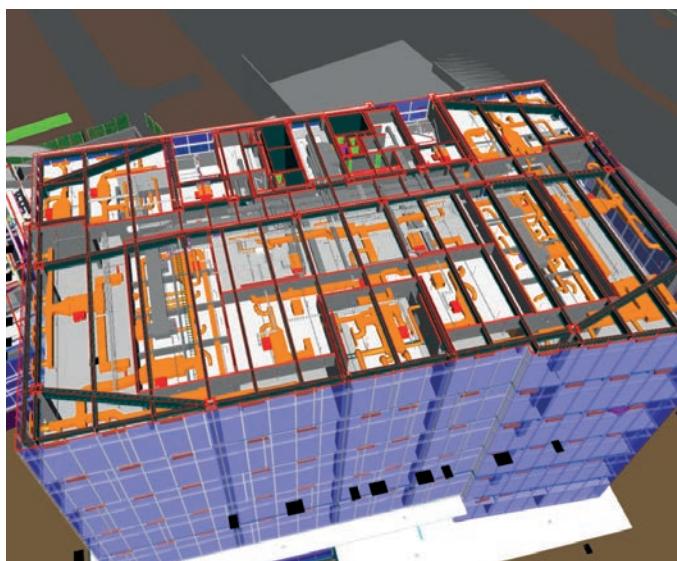
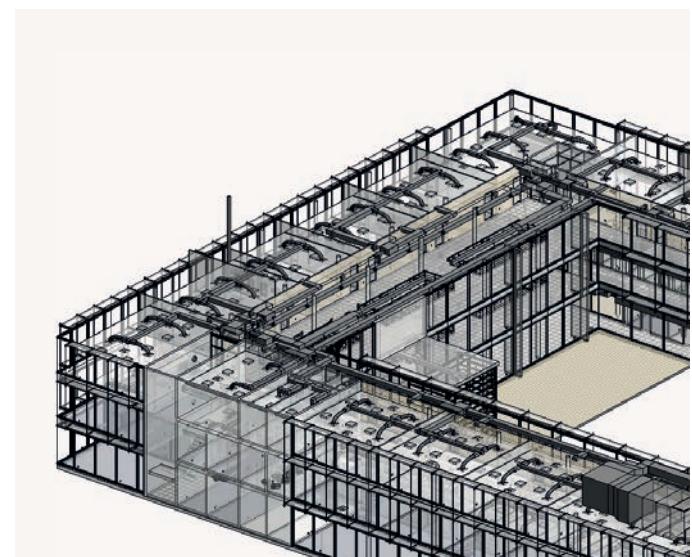
¹ Google Chrome is the recommended web browser for using the Samsung Climate Solutions Partner Portal.

Samsung specialist design support

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

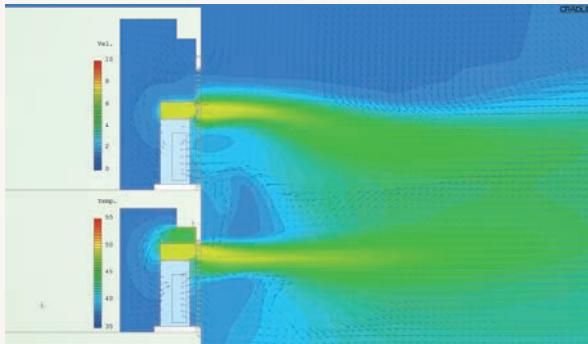
BIM support

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.



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

CFD analysis



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

BREEAM evaluations

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

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



How to obtain support



BIM support



CFD analysis



BREEAM evaluations

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

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

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

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

Samsung Climate Solutions Academy

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



Available training modules

Essential courses: Basic commercial training

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

Advanced courses: Technical training

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

Advanced courses: Design training

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

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

Samsung training centres in Europe



How to register for training



Search

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



Register

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



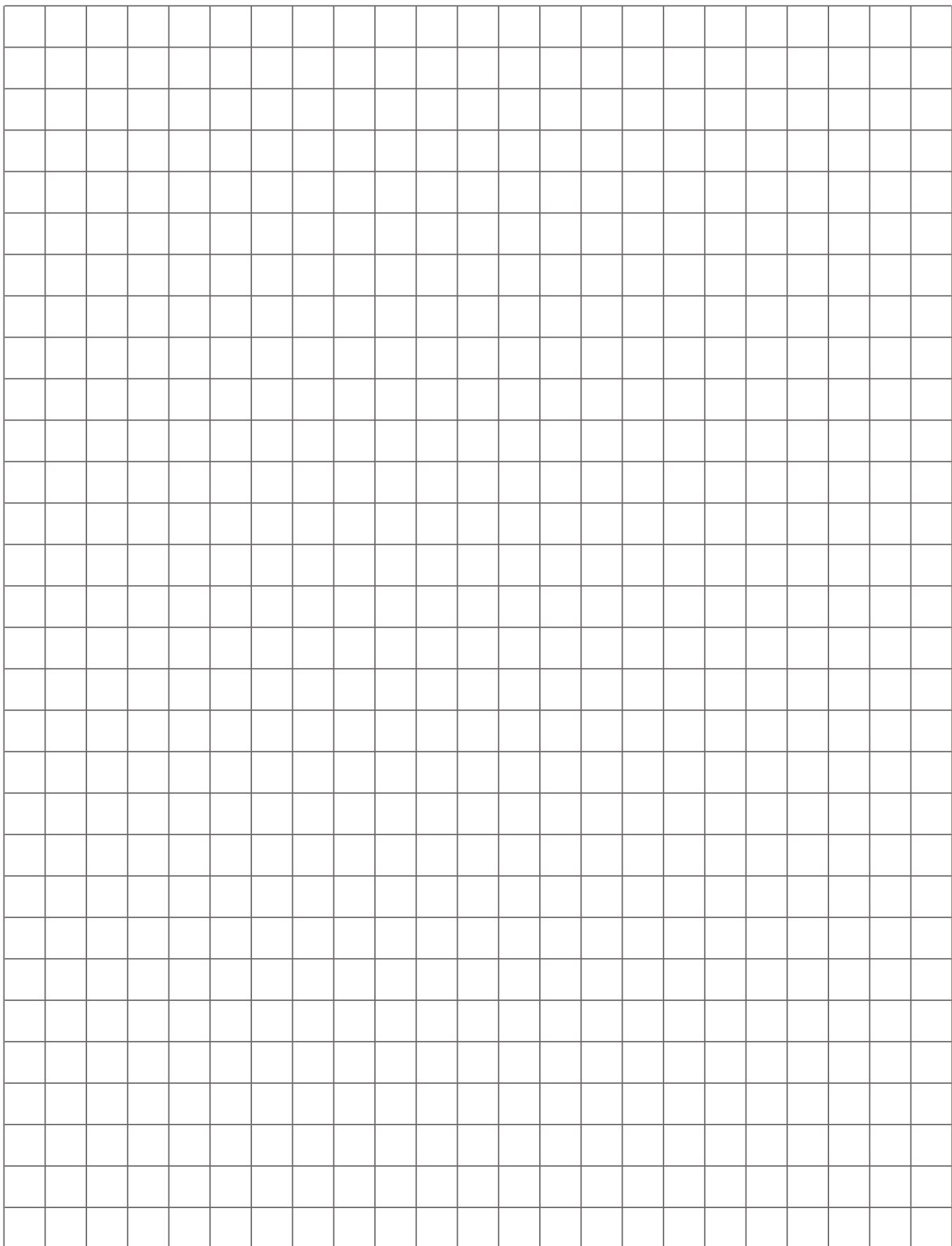
Get certified

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

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

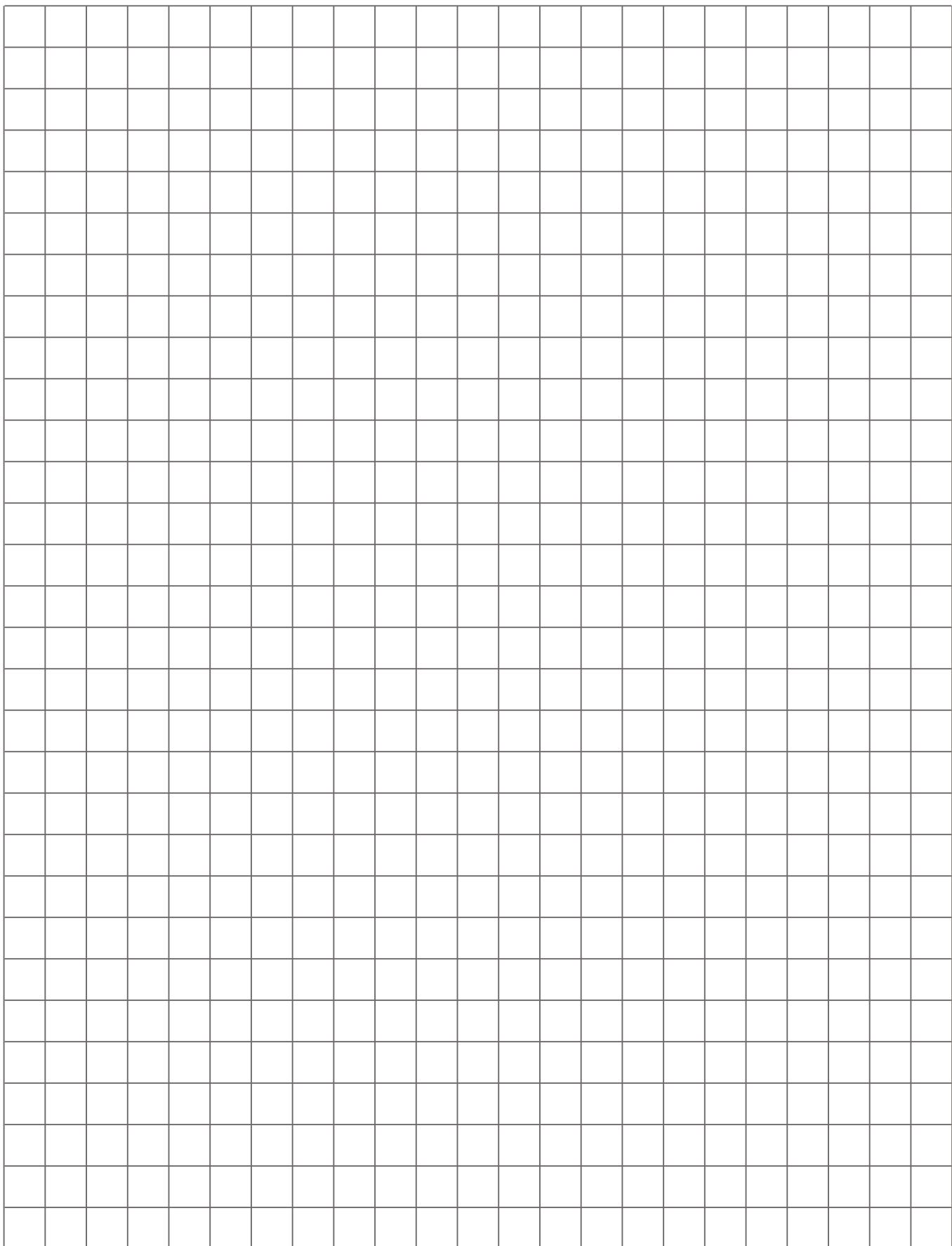
Notes

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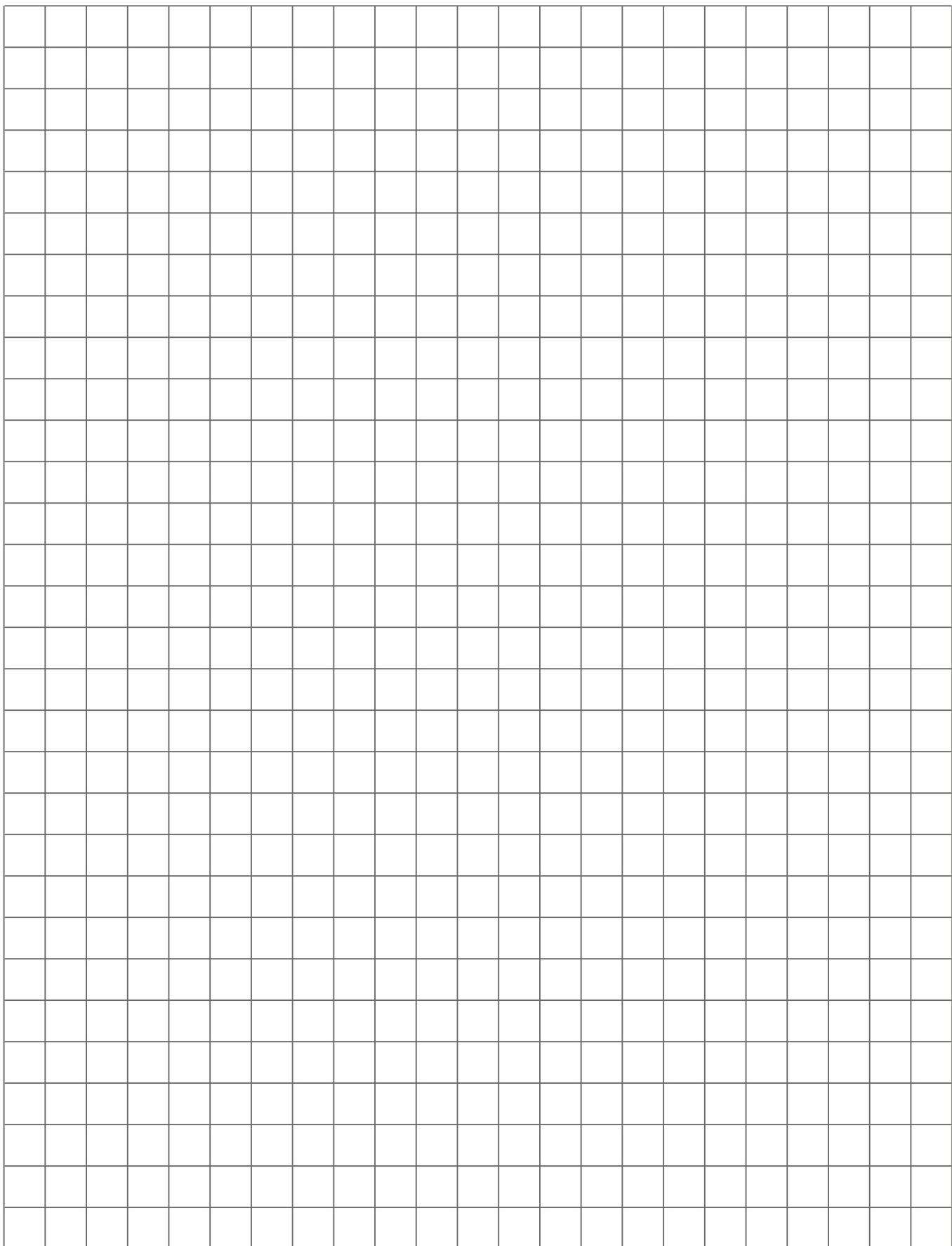
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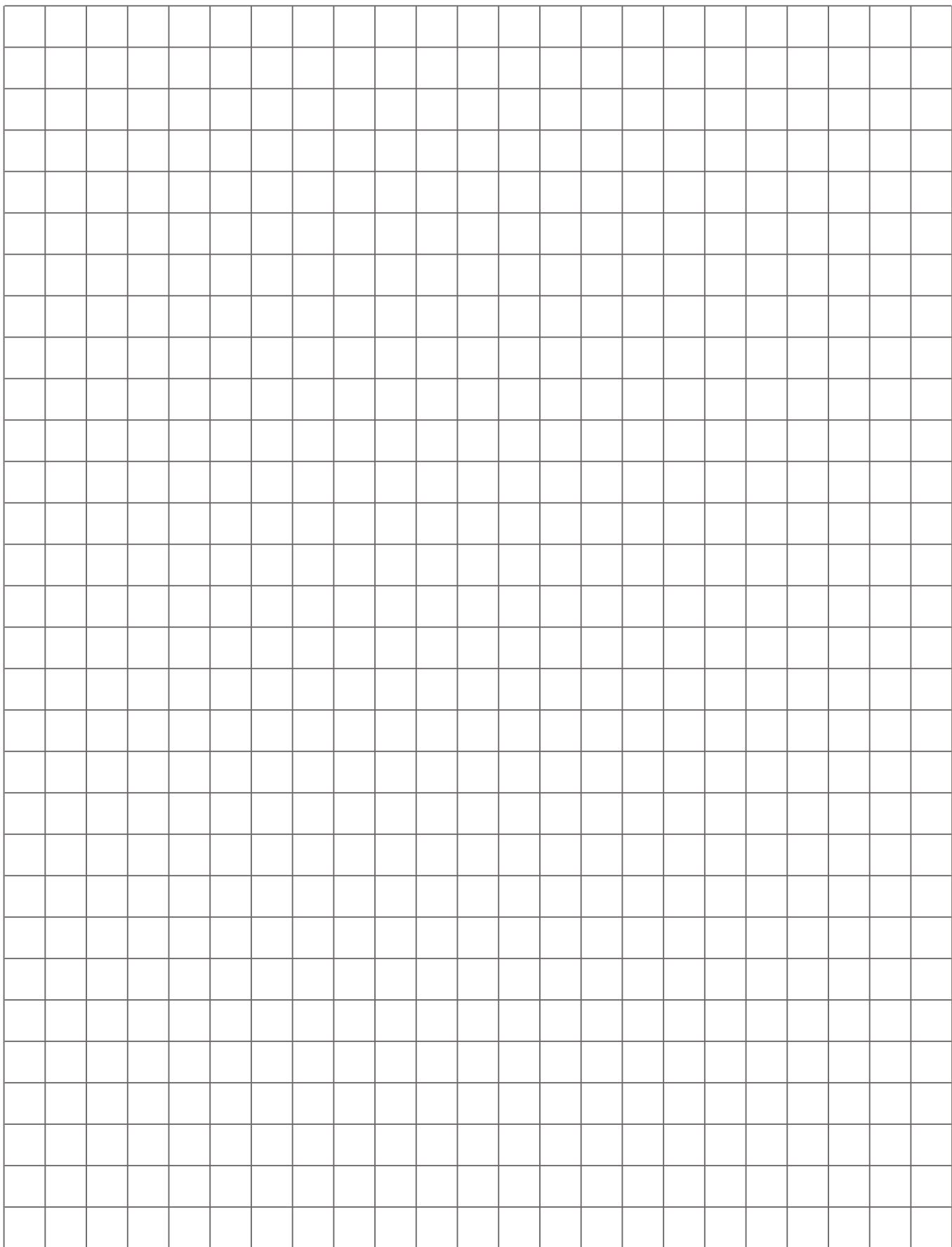
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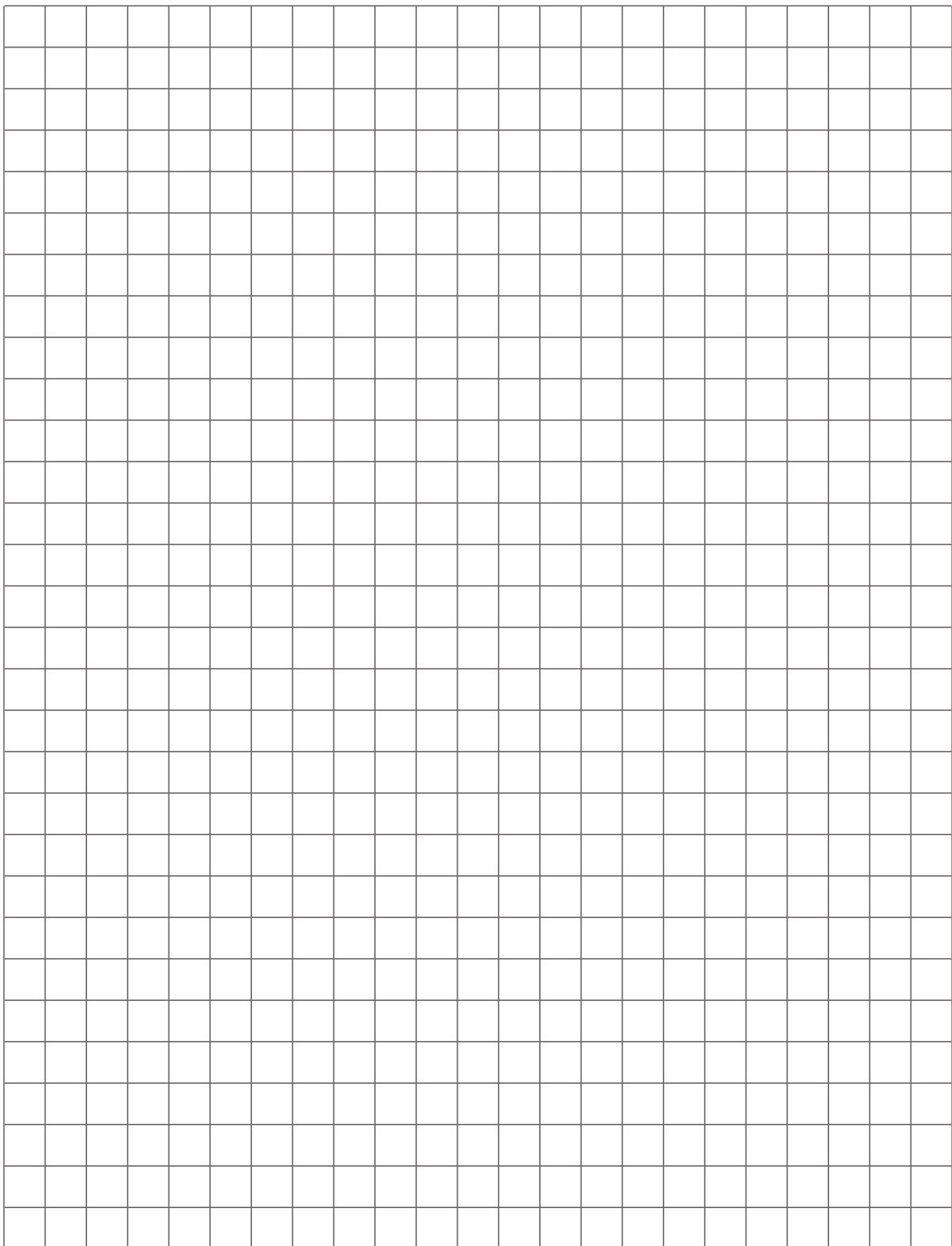
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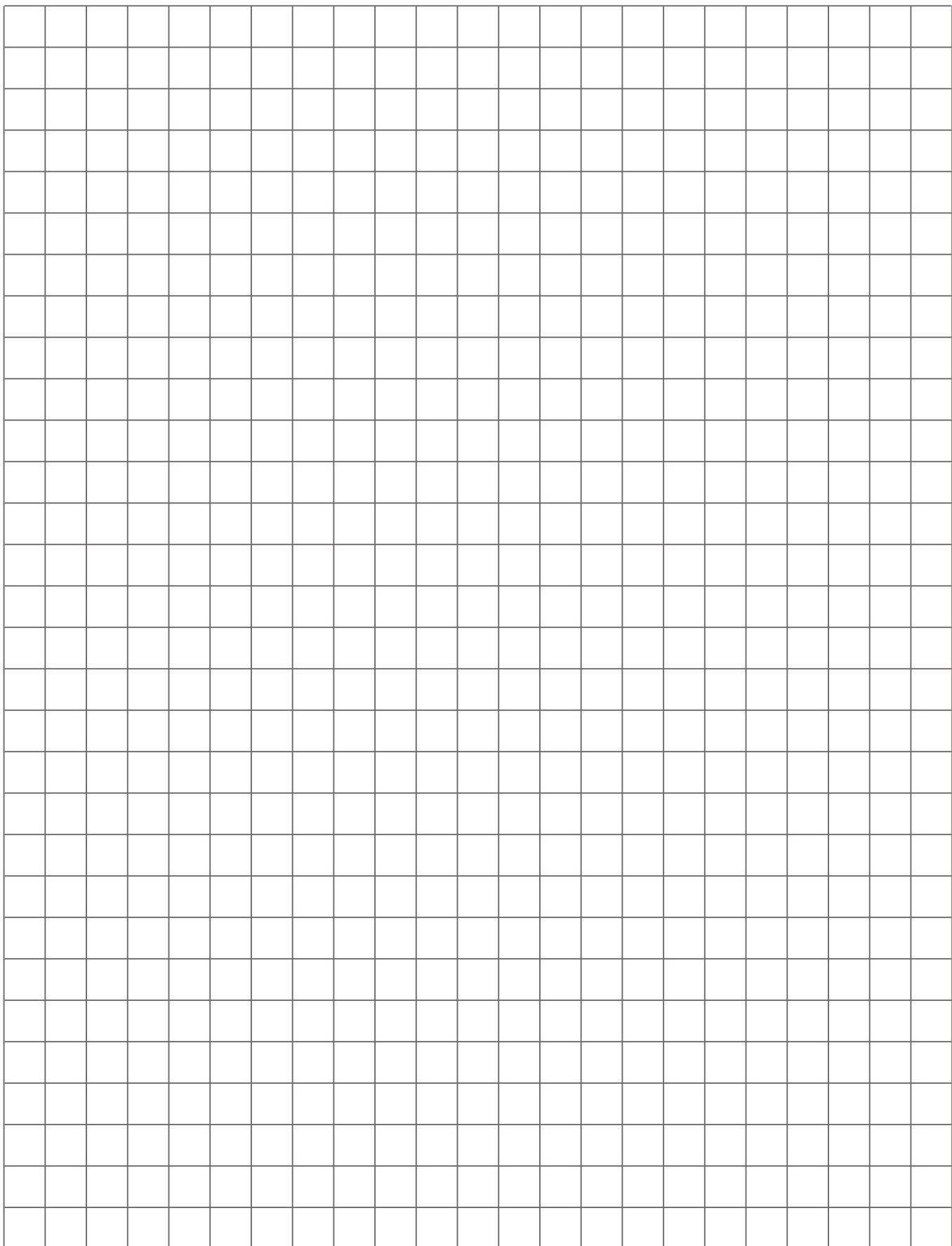
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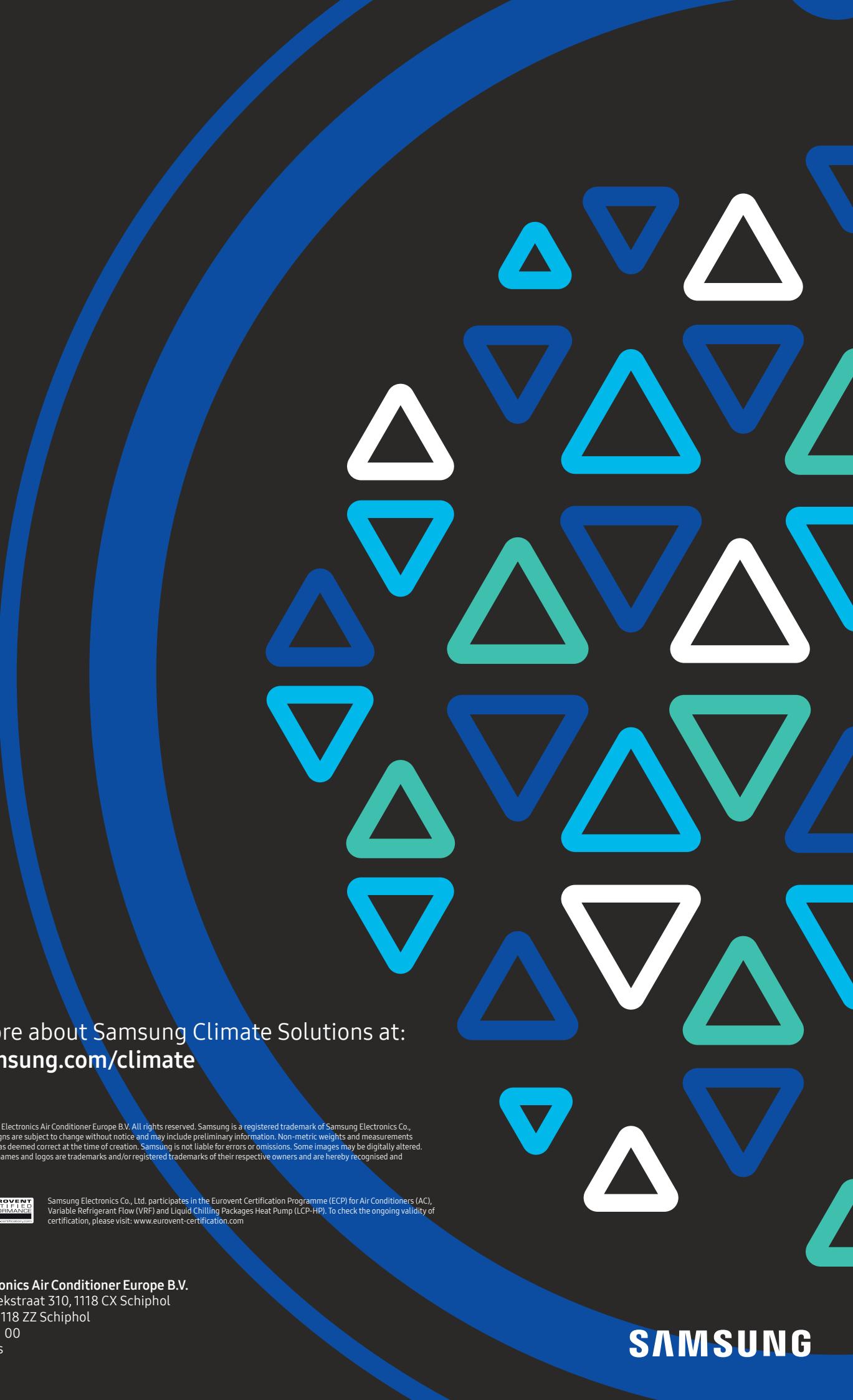
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