SAMSUNG

Product Catalogue

Eco Heating System

21/22

Highlights for 2021/2022

TDM Plus WindFree™ Deluxe

Samsung extends its WindFree™ Technology with a completely new WindFree™ wall-mounted model for its EHS TDM Plus product range. The latest TDM Plus WindFree™ Deluxe is equipped with WindFree™ Cooling technology, spreading fresh air gently and evenly through thousands of micro-holes to create "Still Air" conditions[1].

TDM Plus WindFree™ Deluxe

WindFree™ Cooling | Wi-Fi Control (optional) | Fast Cooling

- Equipped with NASA communication protocol.
- Available in capacity range 2.2-5.6 kW with optional EEV kit.

ClimateHub

The Samsung EHS (Eco Heating System) extends the compact and modular Tank Integrated Hydro Unit for TDM Plus in addition to Mono and Split. With the ClimateHub Tank integrated Hydro Unit, you can save both space and installation time. It's 2-zone control and advanced functions enable optimal energy efficiency and performance.

ClimateHub

Floor heating | Radiator | Hot water | Quiet operation | Smooth installation | Wi-Fi Control (optional)

- Compact unit size with large water tank (200 L and 260 L).
- Intuitive, colour screen touch controller in multiple languages[2].
- Energy monitoring through touch controller.
- 2-zone control, suitable for floor heating and radiators.
- SmartThings compatible with optional Wi-Fi kit[3].
- Backup heater is included to ensure continuous heating.
- Solar Power (PV) and Smart Grid ready.
- Smooth servicing through the front-mounted service window.

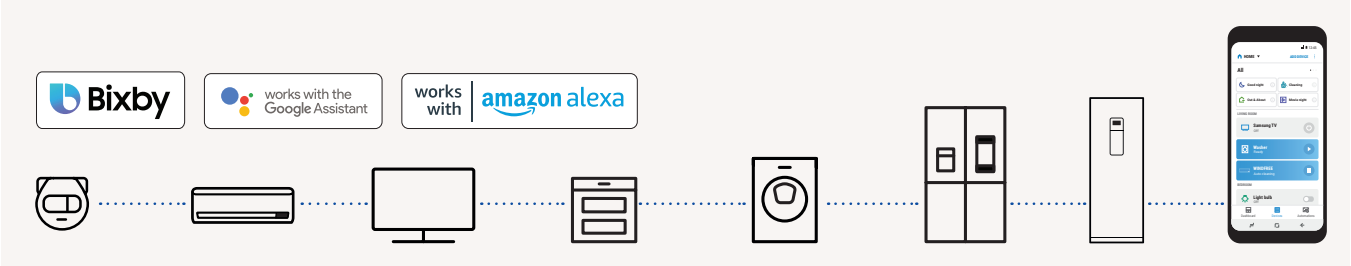
[1] ASHRAE (the American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts.
[2] Available languages: English, German, Spanish, French, Italian, Polish, Portuguese, Dutch, Greek, Czech, Slovak, Finnish, Swedish, Norwegian, Danish and Lithuanian.
[3] A Wi-Fi connection and Samsung SmartThings application account are required. Wi-Fi Kit to be ordered separately. Requires iOS 10.0 or later & Android 5.0 or later.

SmartThings

The SmartThings App can make any home a Smart Home with a simple click. The SmartThings App provides connectivity with the EHS heat pumps, WindFree™ air conditioners and Samsung audio / video appliances and devices through home Wi-Fi.

The optional Wi-Fi Kit allows control of up to 16 connectable indoor units via smartphone with the Samsung SmartThings app[1]. The app checks the indoor temperature, outdoor temperature and air quality levels, and then recommends the optimal operating mode.

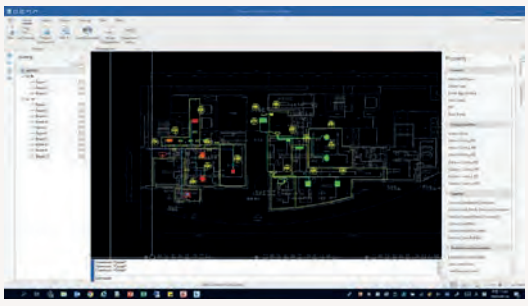
With the Bixby 2.0 Artificial Intelligence (AI) system[1], user voice commands[2] can be carried out by the device. It even analyses the environment, preferred mode, temperature and suggests the best settings enabling optimal indoor climate[3].



[1] A Wi-Fi connection and Samsung SmartThings application account are required. Wi-Fi Kit to be ordered separately. Requires iOS 10.0 or later & Android 5.0 or later.
[2] Currently Voice control is supported in English (US, UK, Indian), Chinese, Korean, French, German, Italian, Spanish and Portuguese.
[3] Voice control is supported by AI speakers such as Samsung Bixby 2.0, Google Assistant (Google Home) and Amazon Alexa. Google Assistant is not available in certain languages and countries. Google is a trademark of Google LLC.

DVM Pro 2.0

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

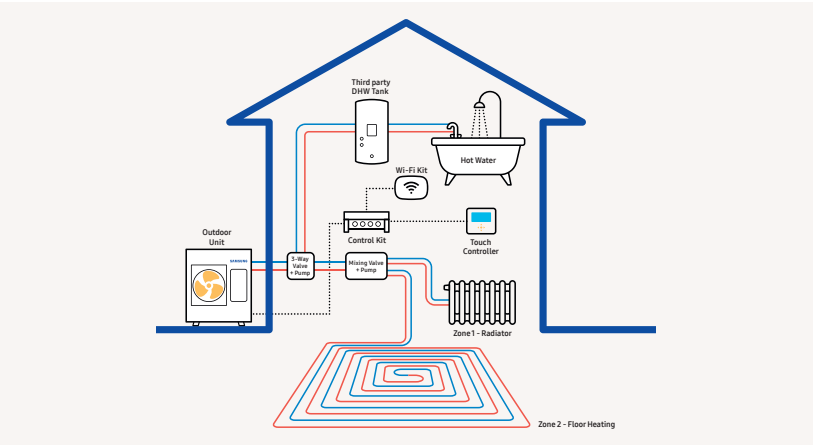


- Design in CAD mode without the need of AutoCAD
- BIM Library (bimobject.com) for Revit®
- Fast and user friendly product selection
- Complete product database
- Real time system check for design errors
- Quick and easy piping length and refrigerant calculation and reporting tool

Product overview

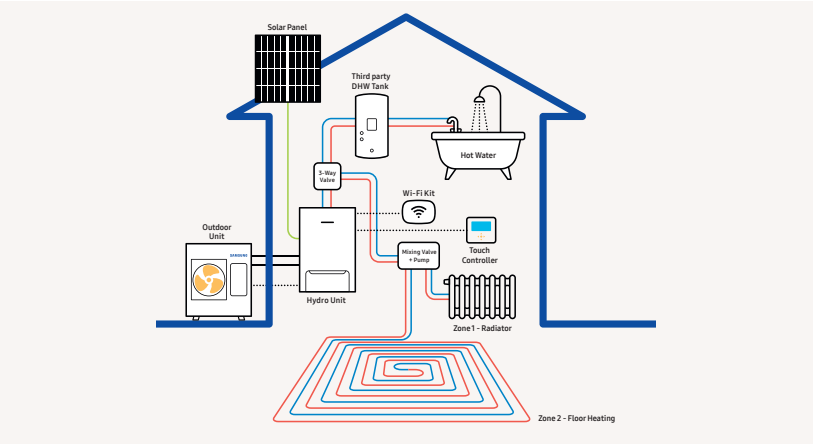
Mono

The EHS Mono can connect to third party equipment such as a Domestic Hot Water (DHW) tank thanks to the Samsung Mono control kit. The Mono Control kit includes a controller, flow sensor, DHW sensor and leaving and return water sensors.



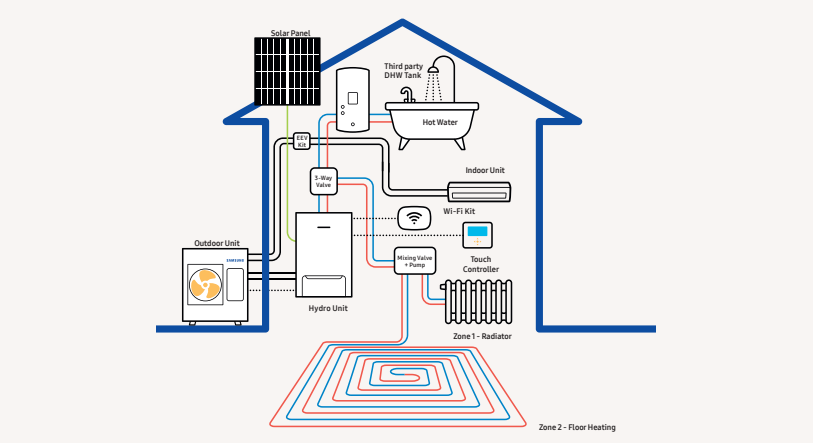
Split

The EHS Split outdoor unit is connected to a wall-mounted Hydro Unit to combine with a third party Domestic Hot Water (DHW) tank to suit all requirements. When used with the Hydro Unit, the Split enables production of domestic hot water and underfloor heating/ cooling, and heating of radiators.

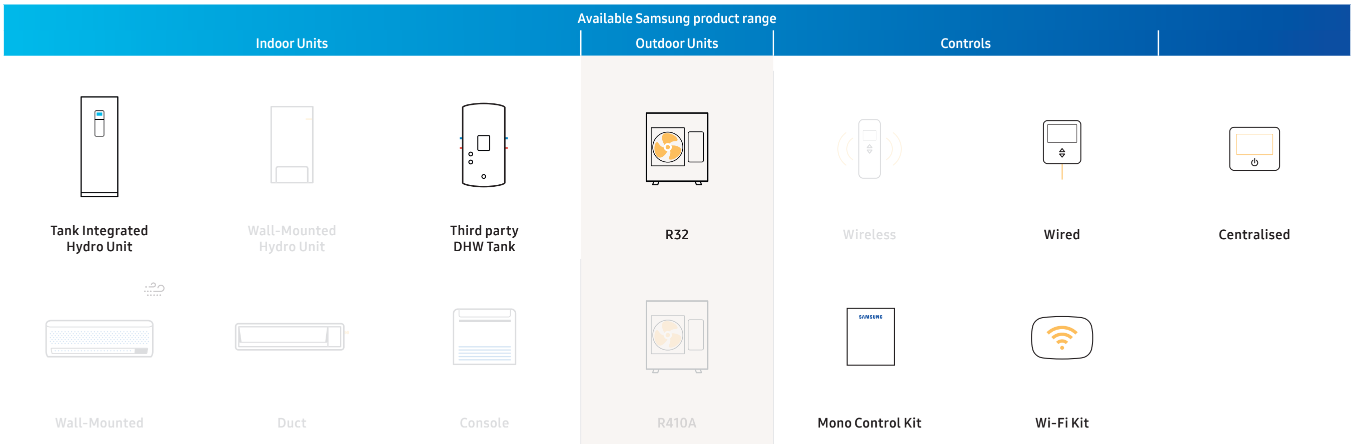


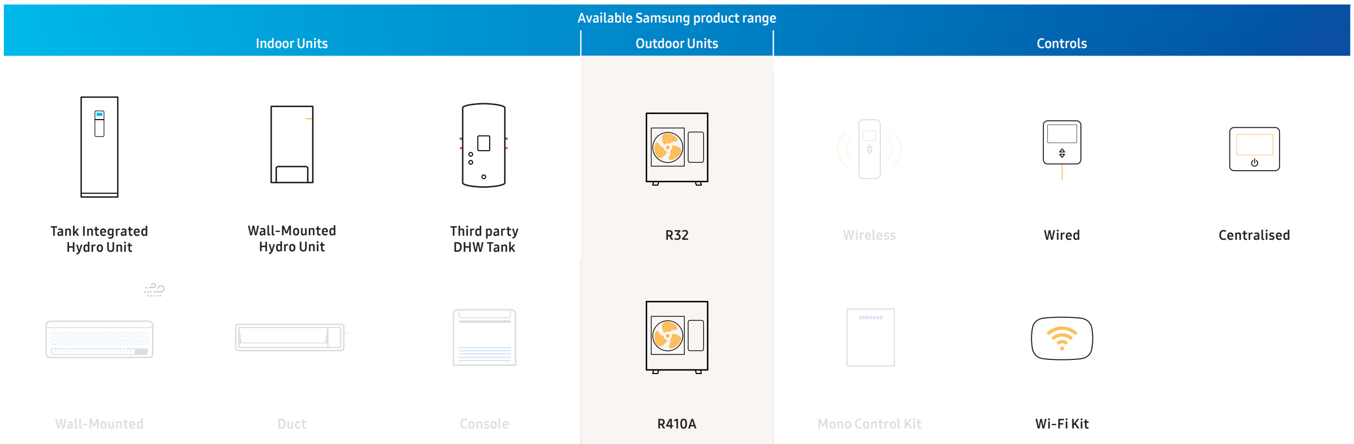
TDM Plus

The EHS TDM Plus outdoor unit can connect to a third party Domestic Hot Water Tank (DHW) via a wall-mounted Hydro Unit. TDM Plus offers A2W and A2A home climate comfort.



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. Solar panels, underfloor heating panels, radiators and non-integrated components are not provided by Samsung unless specified otherwise. For more detailed product information and technical specifications, please consult the respective product pages of this Product Catalogue.


Available Samsung product range
Indoor Units
Outdoor Units
Controls
Tank Integrated Hydro Unit
Wall-Mounted Hydro Unit
Third party DHW Tank
R32
Wireless
Wired
Centralised
Wall-Mounted
Duct
Console
R410A
Mono Control Kit
Wi-Fi Kit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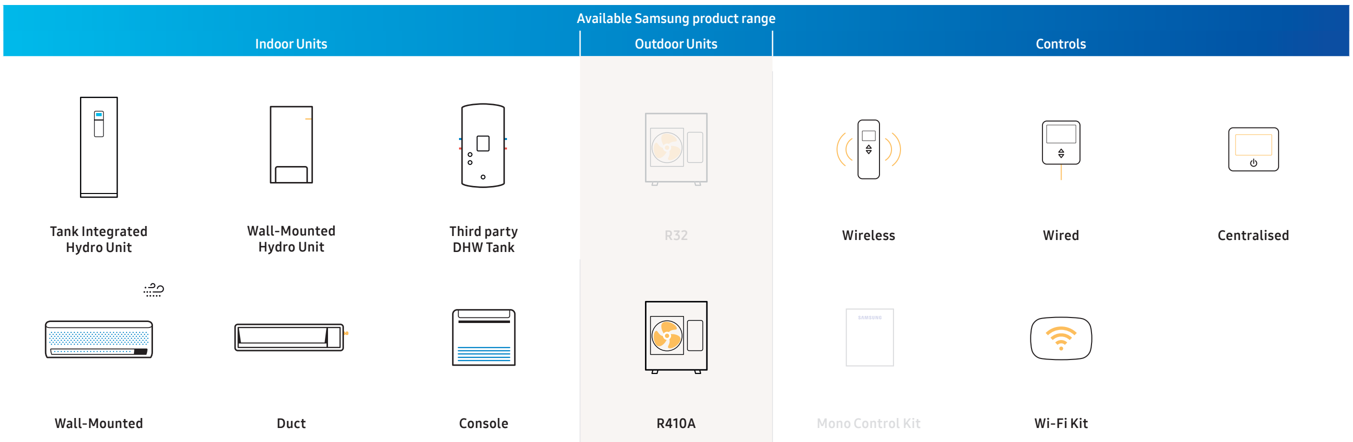
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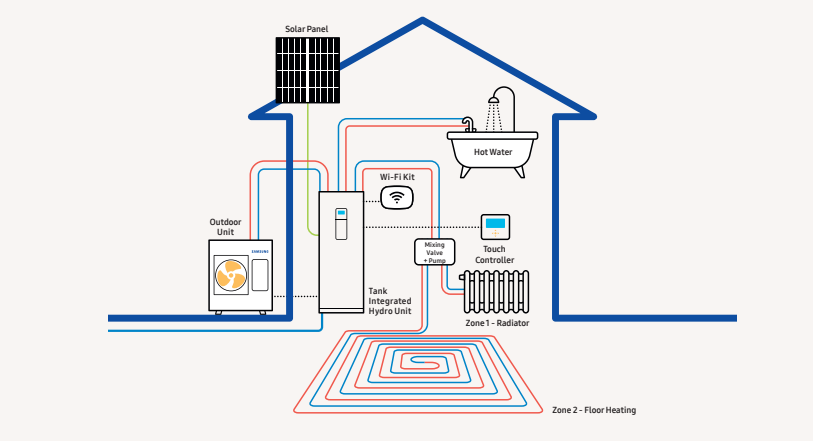
Duct
Console
R410A
Mono Control Kit
Wi-Fi Kit

Product overview

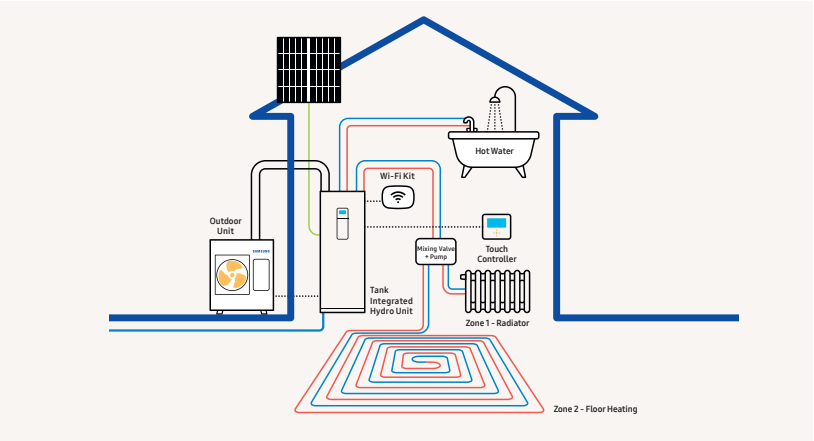
ClimateHub Mono

The ClimateHub Mono configuration has a single outdoor unit that includes the hydronic system, making it easy to install and use. The system's potential can be maximised by connecting to Smart Grid or Solar Power (PV).



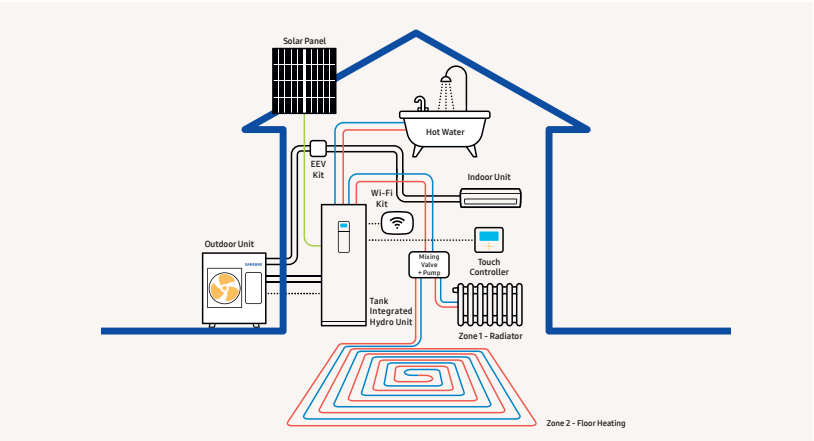
ClimateHub Split

The ClimateHub Split configuration has a single outdoor unit, connected by refrigerant pipes to the tank integrated hydro unit.
To maximise its potential, the system can be connected to Smart Grid or Solar Power (PV).



ClimateHub TDM Plus

The TDM Plus system is an 'All-In-One' Air-to-Water (A2W) and Air-to-Air (A2A) system for a complete home climate solution. It can be used throughout the year for cooling and heating to meet a variety of different user situations and needs. It enables underfloor heating/cooling and radiator heating, as well as offering A2A cooling with various options for air conditioning. The system's potential can be maximised by connecting to Smart Grid or Solar Power (PV).



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Project: Atico en el Retiro (Spain)
Project Architecture: ÁBATON
Interior Design: BATAVIA
Photography: Belén Imaz

Project: Casa L (Spain)
Project Architecture: ÁBATON
Interior Design: BATAVIA
Photography: Carlos Muntadas

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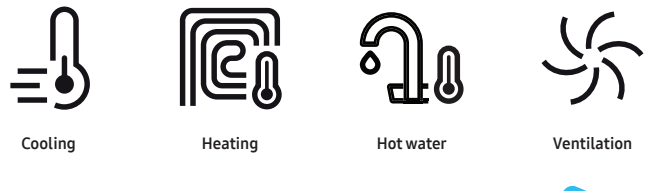
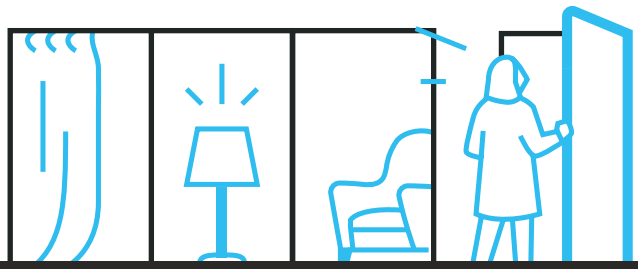
Samsung Climate Solutions at a glance

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

The solutions that we offer





Our market-centric product ranges

	Home	Hotel	Retail	Office	Restaurant	Education
Residential	RAC | FJM					
Light Commercial	CAC | FJM		CAC			
Commercial		DVM | HVM | ERV | VRF				
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.

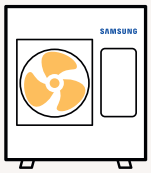
2005

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

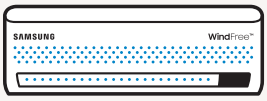


Arrival of the Samsung TDM concept, an all-in-one heat pump solution for heating, cooling and domestic hot water supply.

2015

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

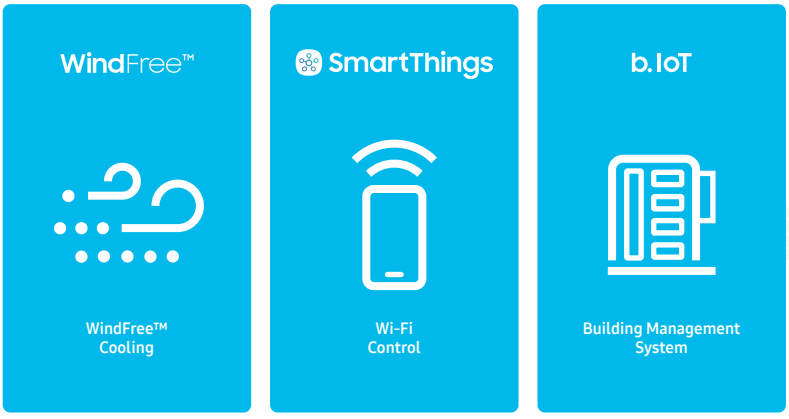
2017



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

2021

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



Our flagship innovations that enrich people's lives

Our European footprint with the locations from which we operate

- 1 | Samsung Electronics Air Conditioner Europe B.V.
- 16 | Samsung offices
- 8 | Warehouses
- 9 | Training centres

Samsung reference projects in the spotlight

Furlan Costruzioni

Marco Furlan

Founder
Furlan Costruzioni

"Furlan Costruzioni has realised high-efficiency buildings over the past 50 years, using premium materials and the most advanced technological solutions. For our CasaZero project, the goal was to achieve zero-impact emissions by implementing renewable energy solutions when constructing the buildings. We chose the Samsung TDM Plus heat pump system for its innovative features, high efficiency and flexibility. With just one outdoor unit it manages Air-to-Air indoor units, floor heating and domestic hot water, saving both space and cost. With the TDM Plus system we have realised apartments that solely use electricity and removed the need for a gas boiler for domestic hot water. The efficiency of the apartments is further improved by connecting the system to photovoltaic modules. Additionally, all hydraulic and PV components are installed outside to maximise the living space inside the apartment."

Application

Residential

Samsung products installed

Wall-Mounted

Duct

Third Party DHW Tank

Wall-Mounted Hydro Unit

EHS TDM Plus Outdoor Unit R410A

Samsung reference projects in the spotlight

Project Etopia

Joseph Daniels

CEO
Project Etopia Group

"A big step in our Samsung partnership is working collaboratively on the heat pump technology. Through this partnership we are able to provide not only heating, cooling and hot water, but we can do this all whilst utilising renewable energy sources. Our class leading pilot project at the BRE innovation park in Watford, UK, uses this system and has been engineered to be more than energy positive. The real game changer for this product specifically is the ability to intelligently control and harmonise it with our smart home system, providing unseen thermal, energy and environmental control with a positive impact on both cost savings and lifestyle."

Application

Residential

Samsung products installed

TDM Plus Outdoor Unit

Wall-Mounted Hydro Unit

SmartThings

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.

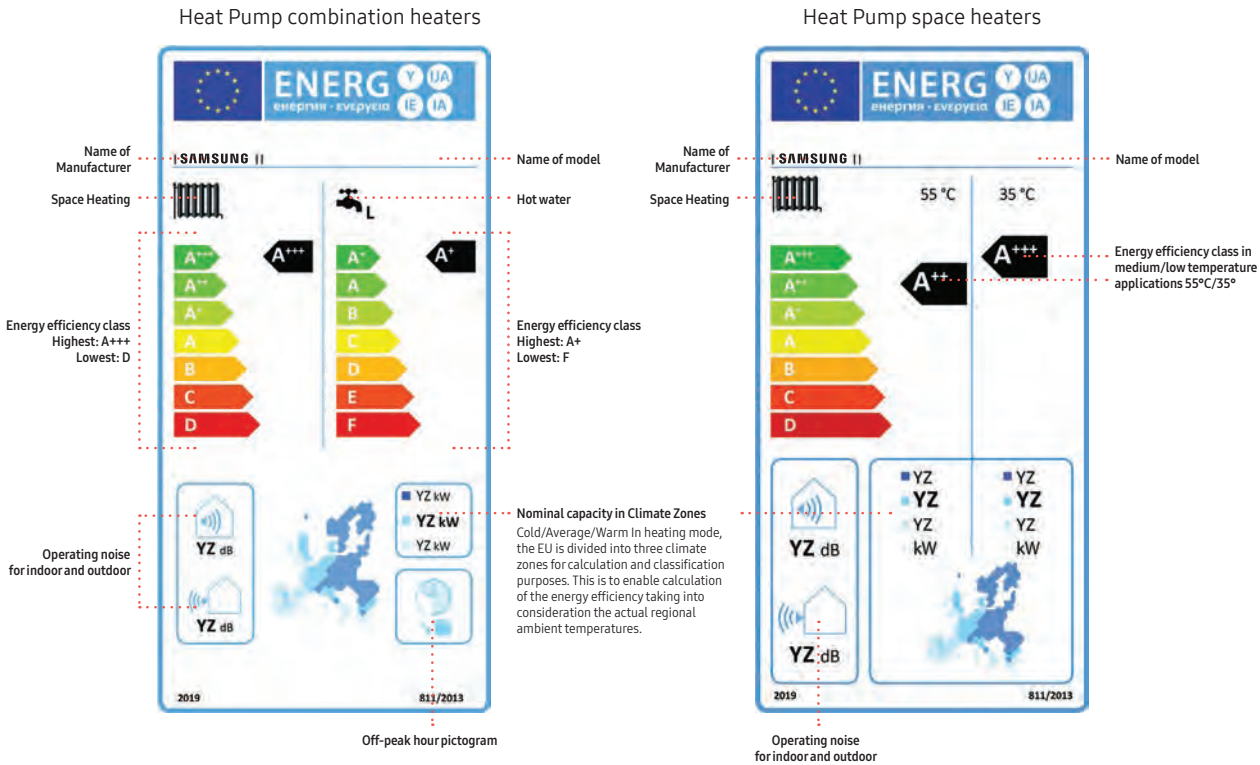
Energy Label

Space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device are subject to Energy labelling EU Regulation No. 811/2013 and Ecodesign EU Regulation No. 813/2013 requirements.

As of September 2019, the energy efficiency scale for seasonal space heating ranges from A+++ to D, with A+++ being the most efficient. The water heating energy efficiency scale for the declared load profile for combination heat pumps ranges from to A+ to F, with A+ being the most efficient.

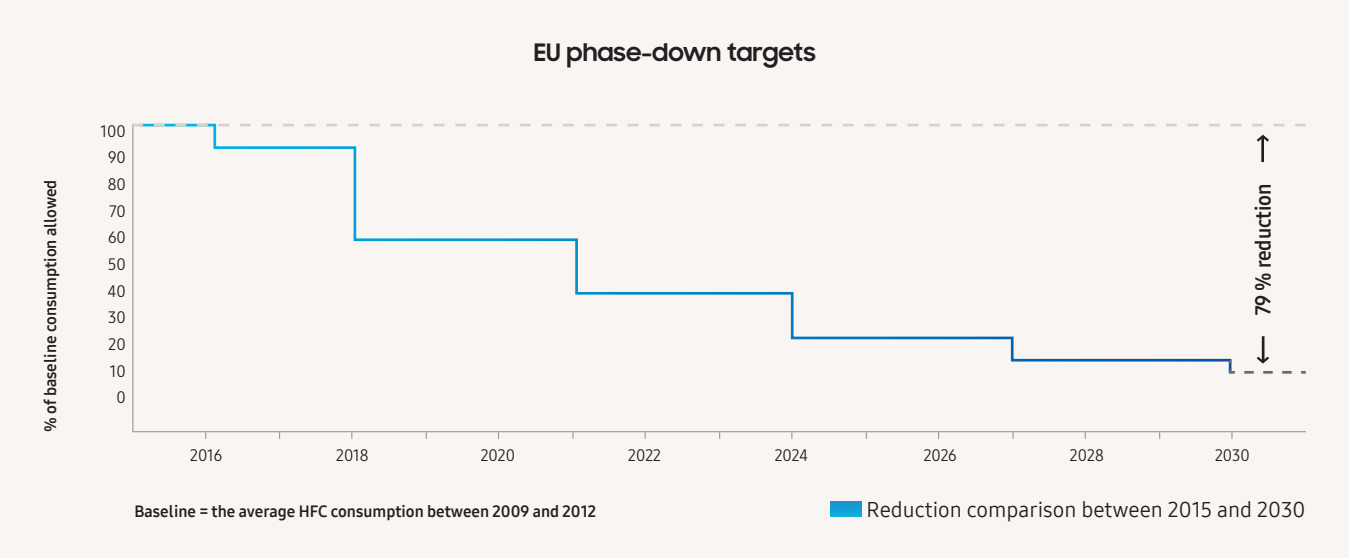
The energy labels should provide minimum necessary information such as; supplier's name, product model code, the rated output under three European climates (average, colder and warmer) for medium- and/or low-temperature applications (55 °C and 35 °C), European map displaying the three temperature zones, the sound power level indoors and/or outdoors. In addition, just for combination heat pumps, the energy label should also include a pictogram showing to be able to work only during off-peak hours.

Energy Label



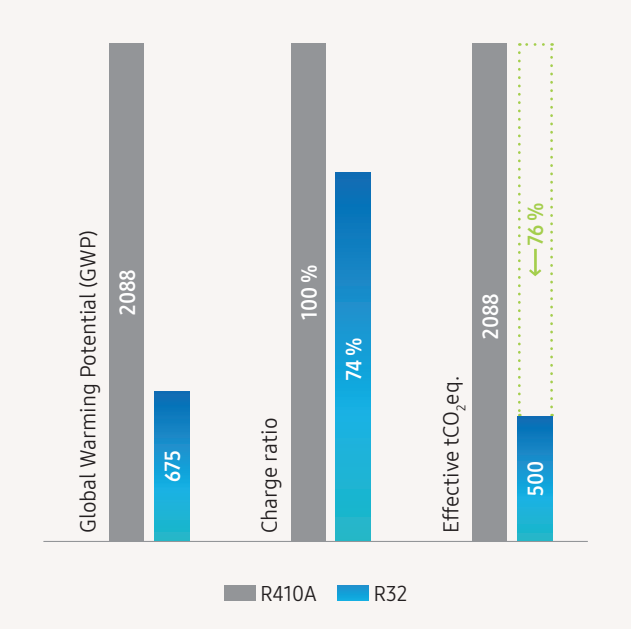
F-Gas regulation

The EU aims to reduce the environmental impact of F-gases through the reduction of the CO_2 equivalent consumption of HFCs (hydrofluorocarbons). EU regulation 517/2014 prescribes a phase-down of HFCs, where the quantities of HFCs that are placed on the market are gradually reduced through the allocation of quotas by the European Commission. The phase-down targets are expressed in CO_2 equivalents (= kg x GWP - Global Warming Potential) and aim to reduce HFC consumption by 79 % in 2030. For new installations of single split air conditioners with a refrigerant charge below 3 kg, the GWP limit is set at 750 starting in 2025. The regulation has been put into force to encourage 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 to invest in environmentally friendly alternatives.

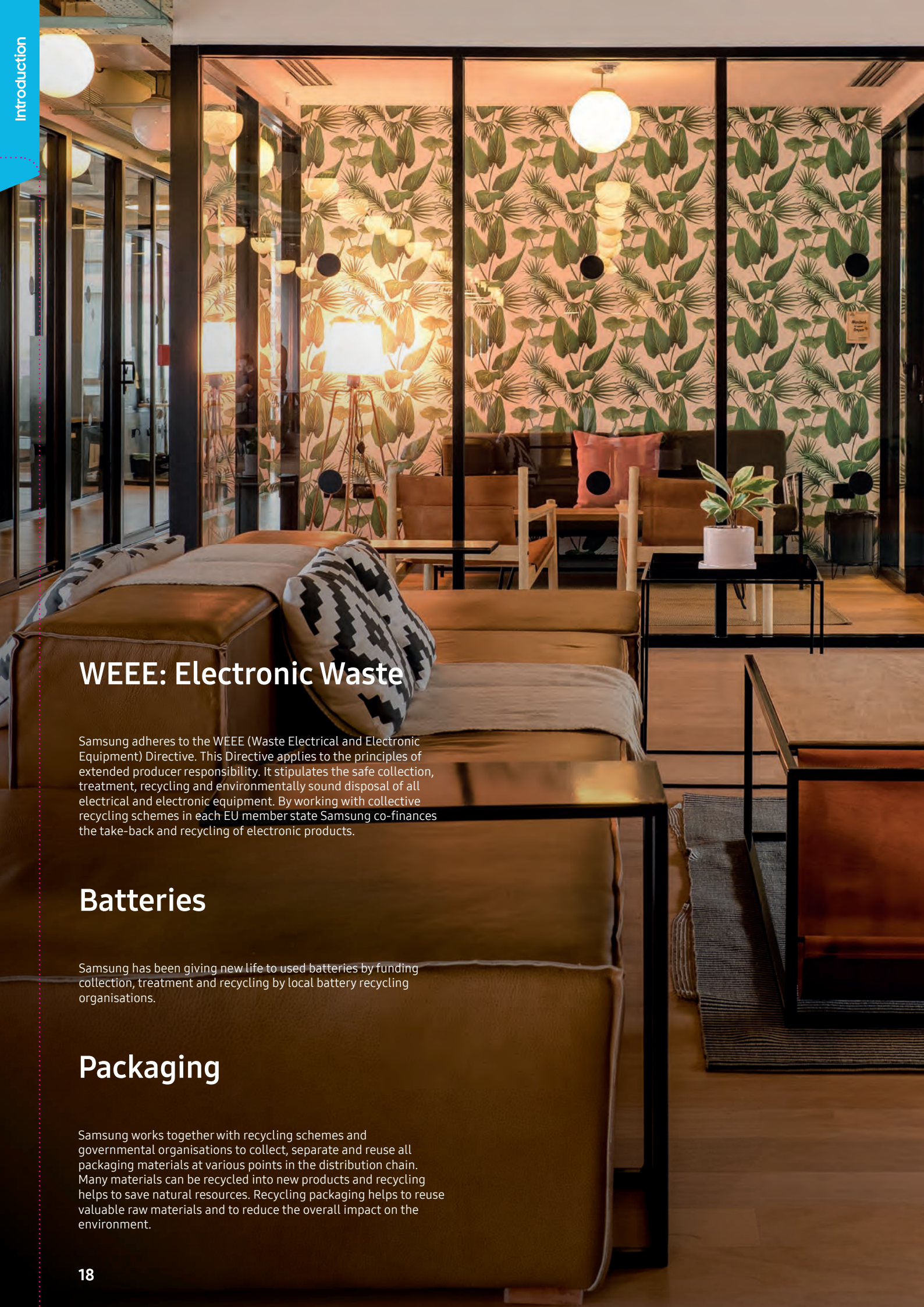


R32 Refrigerant

R32 refrigerant contributes to meeting the F-gas regulation targets as described in EU regulation 517/2014. Air conditioners with R32 refrigerant have a Global Warming Potential (GWP) of 675, which is significantly lower than the GWP of R410A (2,088). While refrigerants are an essential part of today's air conditioners, R32 would have a 68 % lower environmental impact[1] than R410A if leaked into the atmosphere. It has an Ozone Depletion Potential (ODP) of zero, a high refrigeration capacity and a high thermal conductivity; meaning a high efficiency and a reduction in charging volume. Samsung's single split Residential (RAC), Multi Split (FJM) and Commercial (CAC) product ranges up to 12 kW all feature R32 refrigerant.



[1] Comparison between R410A and R32 GWP. Source: European Commission.



WEEE: Electronic Waste

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

Batteries

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

Packaging

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


DO IT

Certifications

Heat Pump KEYMARK Certificate

The Heat Pump KEYMARK is a voluntary, independent, European certification mark (ISO type 5 certification) for all heat pumps, combination heat pumps and hot water heaters (as covered by Ecodesign, EU Regulation 813/2013 and 814/2013). It is based on independent, third-party testing and demonstrates compliance with product requirements as set in the Heat Pump KEYMARK scheme rules and with efficiency requirements as set by Ecodesign. It is aimed at certifying the product performances declared by the manufacturers.

The Heat Pump KEYMARK scheme is owned by the European Committee for standardization (CEN). The certificates are granted by independent certification bodies to products fulfilling all requirements of the scheme.

Samsung's Eco Heating Systems and the ClimateHub range are certified with a Heat Pump KEYMARK. This certification is recognised in a number of European countries which include France, Germany, the United Kingdom, Slovakia and Czech Republic.

Eurovent Certificate

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

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

Samsung air conditioning products ranging from the Residential Air-Conditioning (RAC), Multi Split (FJM), Commercial Air Conditioning (CAC), Digital Variable Multi S (DVM S) and Eco Heating System (EHS) line-up in the 'Air–to–Water' (A2W) heat pump category are all Eurovent certified.

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

Innovations in detail

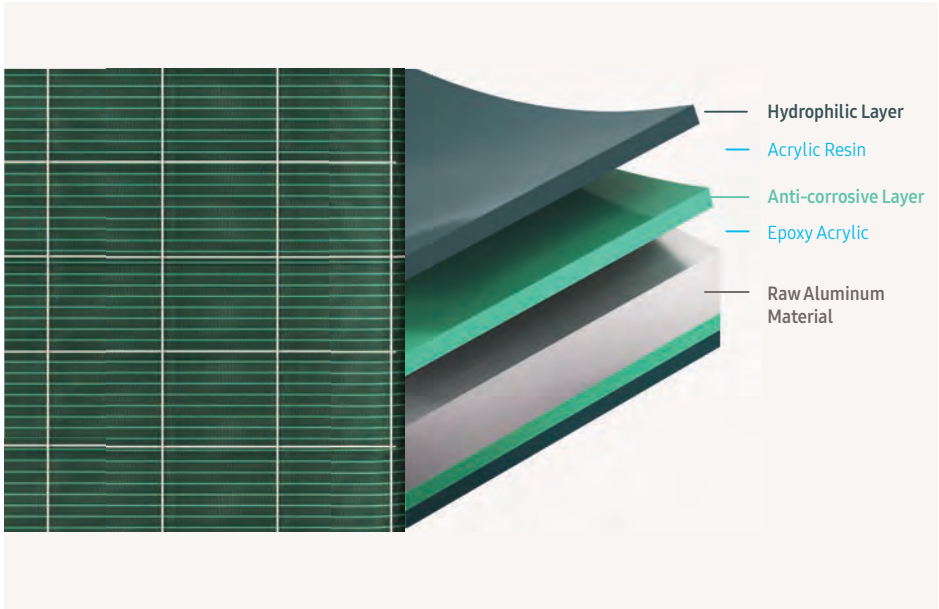
Eco Heating System (EHS)

Efficiency

The Samsung EHS includes a range of advanced functions that help optimize energy usage and are independently certified as delivering enhanced energy efficiency as compared to the previous models.

Various Functions for Energy Saving

The 2-Zone Control enables simultaneous heating with two different water temperature demand. The Photovoltaic Enabled feature checks the status of solar panels and adjusts the temperature to reduce network electricity usage. While the Smart Grid Ready feature helps users take advantage of economically efficient and sustainable power supply options.



Durafin™ Ultra

The Samsung EHS outdoor unit's Durafin™ Ultra has an anti-corrosive layer of epoxy acrylic and a hydrophilic layer of acrylic resin that disperses water and reinforces its corrosion-resistance. Its improved quality was proven using the Salt Spray Test (SST) over a period of 2,280 hours[1] with no leakage of refrigerant[2].

[1] Based on testing by a third party lab in accordance with ASTM B117, an official test method. For more details, please contact Samsung's technical professionals.
[2] Based on testing by a third party lab, applying the actual pressure of refrigerant for 1 minute, after a Salt Spray Test (SST) of over 2,280 hours.

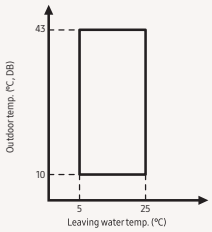
Wide Operation Range

EHS Wall-mounted hydro units can discharge cold and hot water from 5 to 55 °C (leaving water temperature), and the ClimateHub (Tank Integrated Hydro Unit) can store up to 70 °C of water (due to booster heater operation).

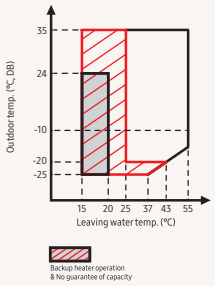
EHS TDM Plus Air-to-Air indoor units provide you with a quick individual heating of -25 to 24°C and cooling 10 to 46 °C for each room, as well as Air-to-Water heating of -25 to 35°C and cooling 10 to 43 °C.

Air-to-Water Operation range

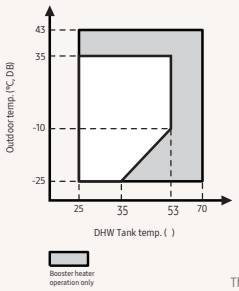
Cooling



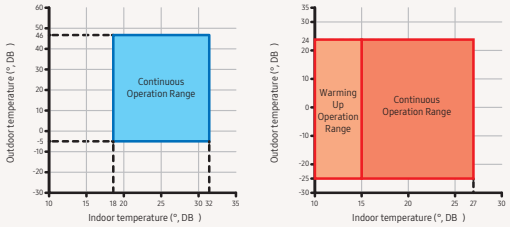
Heating



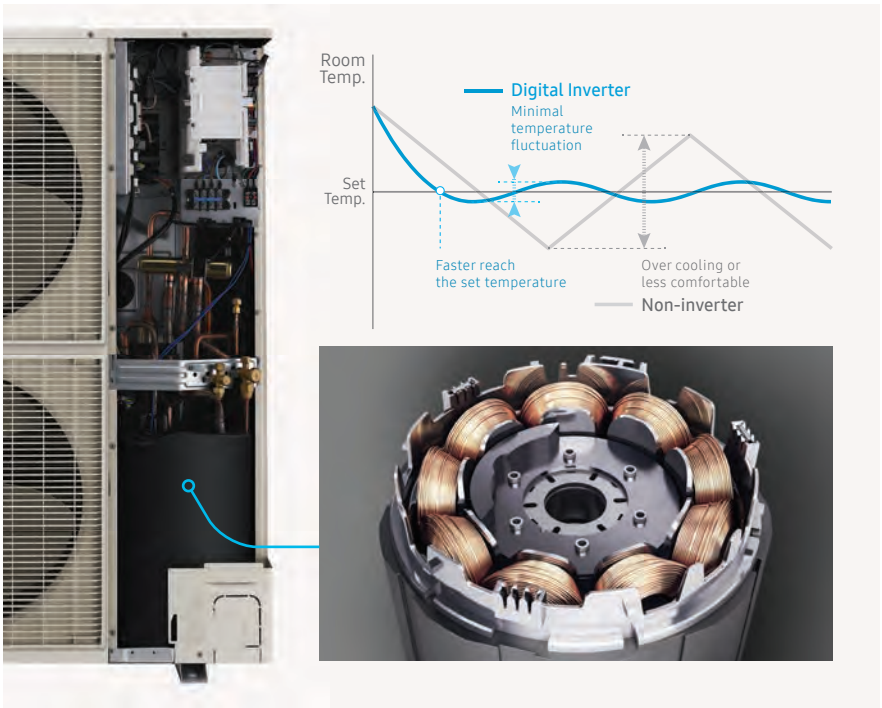
DHW (Domestic Hot Water Tank)



Air-to-Air Operation range



The graphs represent TDM Plus. For Mono and Split, please contact your direct Samsung representative.



Digital Inverter Technology

Unlike conventional fixed-speed compressors, which frequently shut off and switch on, the compressor automatically adjusts its speed in response to changes in the surrounding room temperature. So it helps to ensure optimum comfort by maintaining the desired temperature with little fluctuation. And it optimizes power usage which reduces energy consumption.

Innovations in detail

Eco Heating System (EHS)

Twin Rotary BLDC Compressor

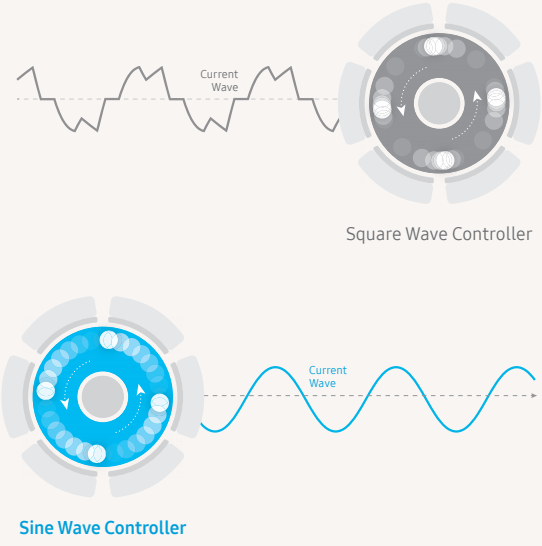
The smart compressor design and premium moving parts of the Samsung Eco Heating System deliver a balanced performance, fully complying with EU regulations for enhanced efficiency[1].

The Twin Rotary BLDC Compressor of the EHS outdoor unit offers you greater efficiency and reliability. Its twin cams and two balance weights create low levels of vibration, contributing to a smoother and quieter all-round performance. The use of high quality moving parts, such as robust bearings and premium matching rollers and vanes, also ensures much better stability and durability.

[1] All Samsung EHS products comply to EU EcoDesign's Minimum Energy Performance Standards (MEPS).

Twin Rotary Compressor

BLDC Rotor



Quieter Current Wave

The combination of superior insulation and low vibration generates less noise, so it creates a comfortable atmosphere. Due to Samsung's newly developed Sine Wave Controller technology you can hear much less noise when the air conditioner is running as compared to previous versions. Unlike a conventional Square Wave Controller, which emits a noticeable sound, it produces current waves that have a smooth curve with no spikes or ripples. This significantly reduces the noise created by the outdoor unit, so it operates very quietly[1] and creates less disturbance.

[1] Based on Samsung's internal test results compared with the Samsung AR09FSSKABENEU model. Individual results may vary.

Double-layered Sound Insulation

The compressor is fully covered in double-layered sound insulation material that absorbs and minimizes noise. When it is applied, the sound becomes about 3 dB(A) quieter[1]. So it operates quietly and discretely, while still delivering high-quality performance.

[1] When testing Split 6 kW and 9 kW models based on internal testing in Samsung Korea. Results may vary depending on environmental factors and individual use.

Anti-Freeze protection control

The Samsung EHS unit which provides the indoors with heating energy is installed outdoors to extract heat from the ambient air. Therefore, whenever the compressor operation is stopped during ambient conditions below 0 °C, the water inside the pipes may freeze and expand, this can damage the water pipes and the components.

In order to prevent this, the Anti-Freeze Protection control function activated by default. In non-operation mode, if the outside temperature drops to 3 °C or below, the pump on the water pipe side is forcibly operated to prevent freezing in the water pipe. For external water pipes and Anti-Freeze protection feature use propylene glycol with a toxicity rating of Class 1 as listed in Clinical Toxicology of Commercial Products, 5th Edition[1].

[1] Please refer to the installation manual for detailed anti-freeze specifications. Anti-Freeze Protection control should be used only for auxiliary measure in addition to glycol mixture.

Innovations in detail

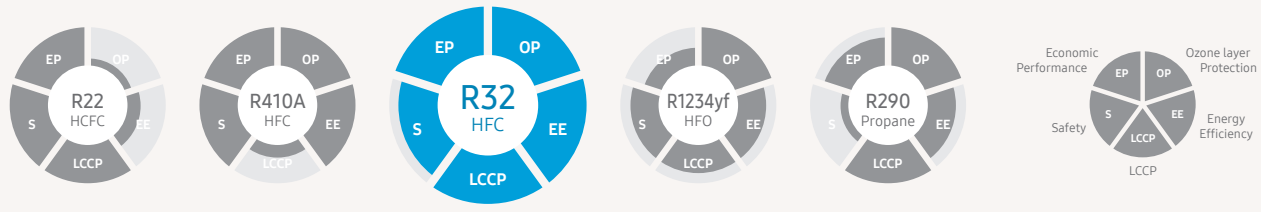
EHS Mono & Split

Eco-friendliness

The Samsung EHS Mono and Split are designed to deliver both sophisticated heating capabilities and green living credentials demanded by modern households[1].

[1] https://www.samsung.com/semiconductor/about-us/green-management/

Next Generation of Refrigerant R32



LCCP - Life Cycle Climate Performance

The EHS Mono and Split range uses the next generation of R32 refrigerant, which helps and lower the impact on global warming. It is equipped with an Ozone Depletion Potential (ODP) of zero and a lower Global Warming Potential (GWP) than conventional R22 or R410A refrigerants[1]. It also reduces the amount of refrigerant needed and cuts CO_2 emissions[2], so it's much more environmentally friendly.

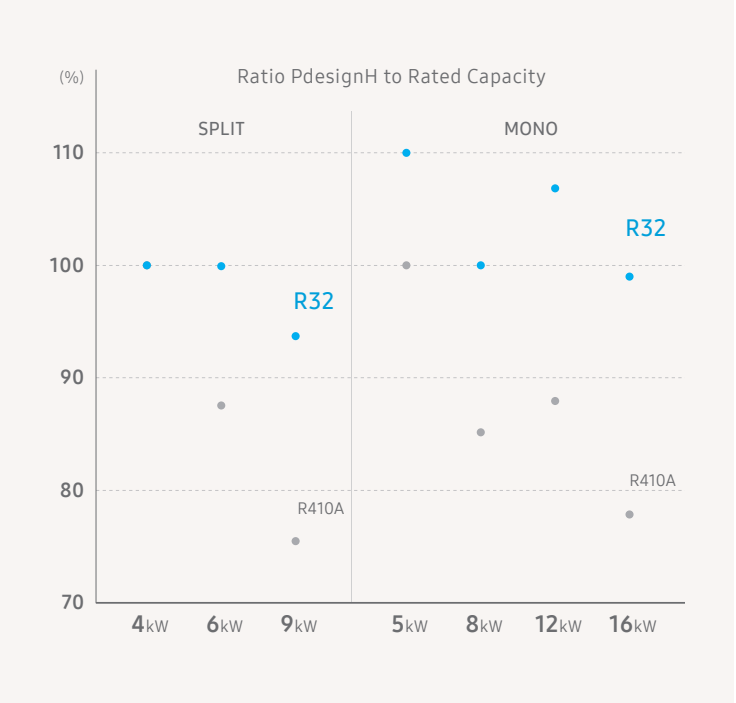
[1] GWP rating: R32 refrigerant = 675 vs. R410A refrigerant = 2,088.
[2] The Samsung EHS Mono and Split (R32) only require 83 % of the refrigerant used in a conventional heating system (R410A) of the same capacity. So the level of CO_2 emissions of the EHS is 560 (675 x 0.83), which is 73% less than the 2,088 produced by a conventional heating system.

Energy Efficiency - SCOP A+++

The enhanced energy efficiency helps save cost on heating bills. The Samsung EHS has a Seasonal Coefficient of Performance (SCOP) A+++[1] energy efficiency rating, therefore they are proven to operate with a high level of efficiency.

EHS Mono and Split achieve a good heating performance at low temperature by using R32 refrigerant. The R32 refrigerant has a high PdesignH (kW), and works reliably and efficiently even in cold climate.

[1] Air-to-Water Condition : (Heating) Water In/Out 30 °C/35 °C, Outdoor Air 7 °C[DB]/6 °C[WB]; (Cooling) Water In/Out 23 °C/18 °C, Outdoor Air 35 °C[DB].



Base heater prevents water condensation from freezing.

Base Heater

The EHS[1] outdoor unit is specifically designed to provide an optimal performance in extremely cold environments. It features a Base Heater (150W), which improves the defrost operation duration. Therefore contributes in keeping the base plate of the outdoor unit free from ice build-up. Together with the standard feature of snow prevention control, it helps to prevent damage from snow drifts.

[1] Available only in >8kW Mono and >9kW Split model codes

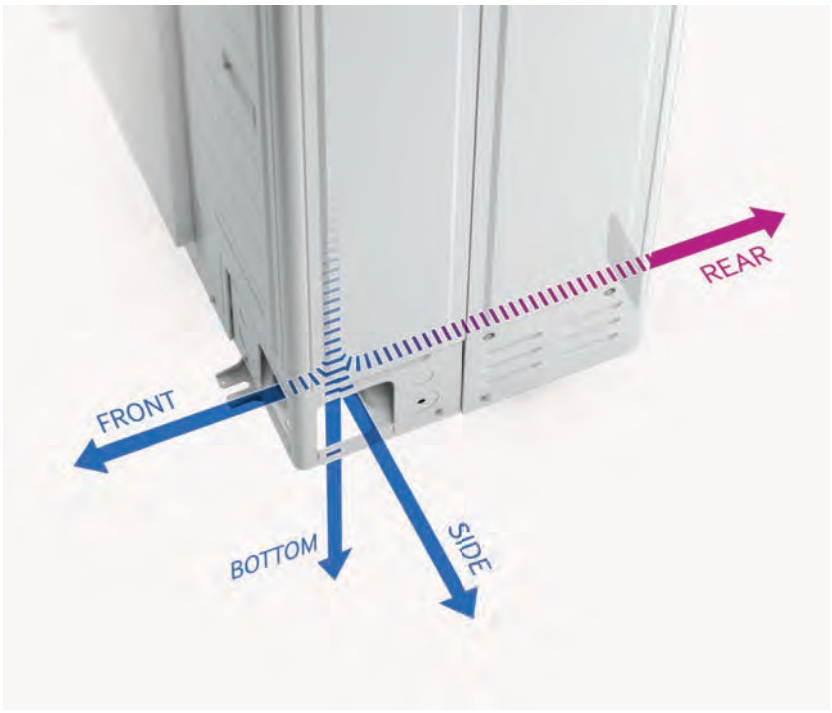
Innovations in detail

EHS Split

4-way Piping

The EHS Split 4-way piping system[1] has pipe access possibilities at the front, side, bottom and rear, so it provides much more flexibility during installations. It can be configured to suit almost any installation location without additional fittings, while still being discretely concealed.

[1] Only available on certain models. Contact your local Samsung representative for complete product information.



Innovations in detail

ClimateHub

Easy Installation

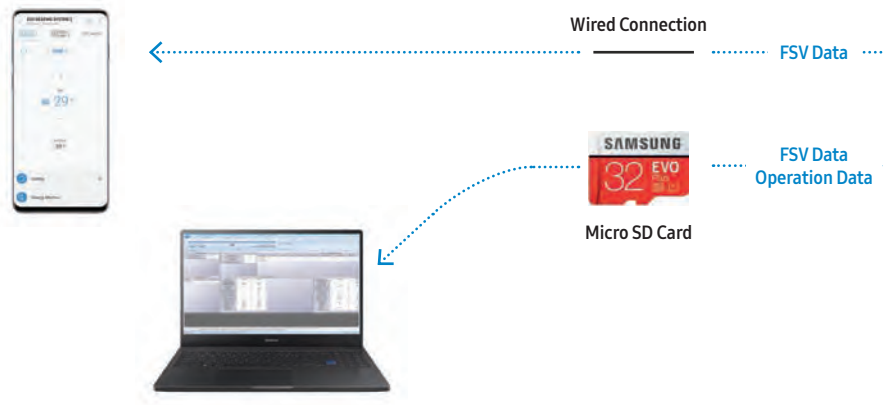
The compact ClimateHub Mono, Split and TDM Plus are easier to handle and require much less space, so they can be installed in many more places. And they are extremely simple to set up and maintain.

Compact & Integrated Design

A compact and modular Tank Integrated Hydro Unit integrates a conventional hydro unit or control kit, a large hot water tank of either 200 or 260 litres and parts of the water pipes. So it's easier to handle and gives freedom to install it almost anywhere in a building, even in a kitchen or utility room.

Easy Set-up and Servicing

Set up and maintain the ClimateHub system more easily, saving time and effort. With its intuitive servicing options, start-up and maintenance can be done with limited effort through the use of a converter PBA[1] and Micro SD card[2].



[1] Only available in Tank Integrated Hydro Units.
[2] Data can be viewed using Samsung service software (S-Net Pro2) on a computer with a compatible SD Card slot. SD Card is up to 32 GB and connected point down.

Convenient Control

The ClimateHub Mono, Split and TDM Plus offer a range of easy to use control options that make life much simpler.

Intuitive Control

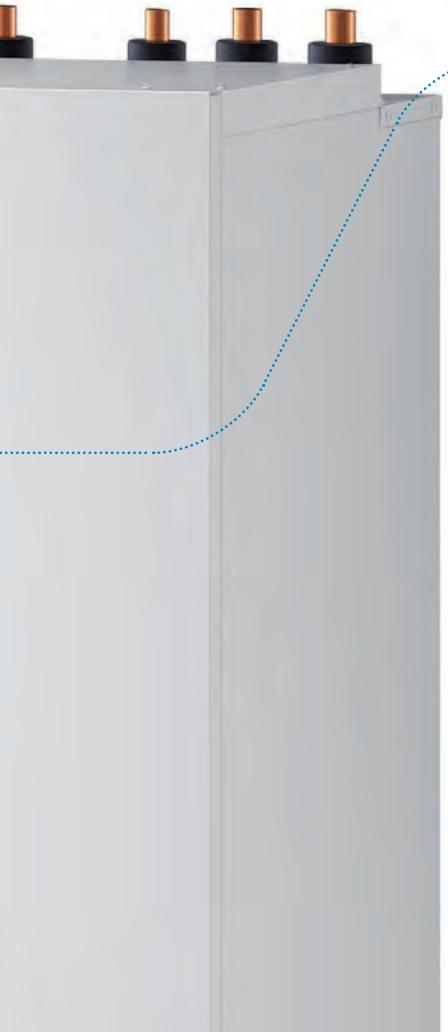
The touch controller comes equipped with multiple language options and bright colour display – enabling temperature settings, energy monitoring, summer time setting and quick error monitoring.[1] Different temperatures can be set for each zone, meaning high-temperature radiators and lowtemperature floor heating can be utilized efficiently.

The touch controller allows for the management of different temperature settings per zone, meaning high-temperature radiators and low-temperature floor heating can be utilised efficiently.

[1] The image shows an application example and is for illustrative purposes only. Please always check latest information for understanding availability of language versions. Available in 16 languages: English, German, French, Italian, Spanish, Polish, Portuguese, Dutch, Greek, Czech, Slovak, Finnish, Swedish, Norwegian, Danish, Lithuanian.

Underfloor heating zone

Radiator zone



Smart Connectivity

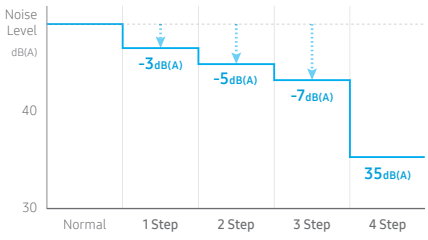
With the optional Wi-Fi Kit, different aspects of the system, including controlling and monitoring up to 16 indoor units through the Samsung SmartThings App.[1]

[1] Wi-Fi connection and Samsung SmartThings application account are required. Wi-Fi Kit to be ordered separately. Requires iOS 10.0 or later & Android 5.0 or later.

Quiet Operation

The 4-Step Quiet Mode enables adjustable low-noise operation to meet strict sound level requirements[1]. Simply select from four different steps to reduce the sound level by 3 dB(A), 5 dB(A), 7 dB(A)[1] or keep it as low as 35 dB(A)[1].

[1] Based on internal testing of the 6 kW and 9 kW Split outdoor units (AE060RXEDEG, AE090RXEDEG, AE090RXEDGG). The noise level is measured 3 m away from the front of the outdoor unit, in an anechoic room with an outside temperature of 7 °C. Results may vary depending on the model (capacity), environmental factors and individual use. Sound pressure levels are subject to execution and operating conditions.



Innovations in detail

ClimateHub

ClimateHub Components

The ClimateHub system includes all the main hydraulic components: in this way it is possible to save useful space inside the house.

Connections

Placed in the upper part for a simplified installation

Plate heat exchanger

High efficiency plate heat exchanger

Backup heater

For space heating,
2 kW (single phase) or
6 kW (three phase)

Circulation pump

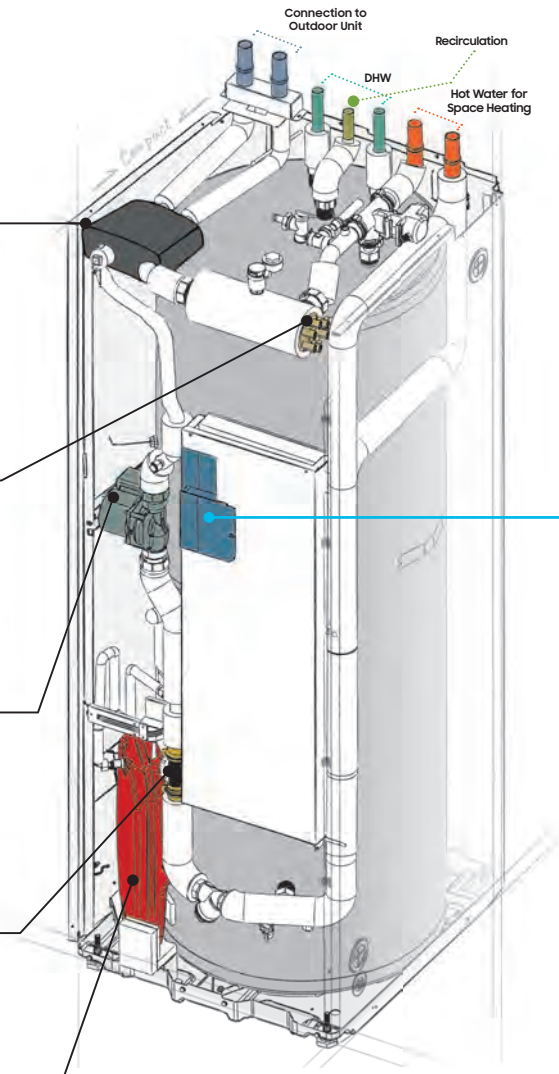
Included with PWM Inverter control

Flow sensor

Allows, in combination with the MWR-WW10*N wired controller to estimate energy consumption

Expansion vessel

8-litre



Photovoltaic & Smart Grid connections

Booster Heater for DHW

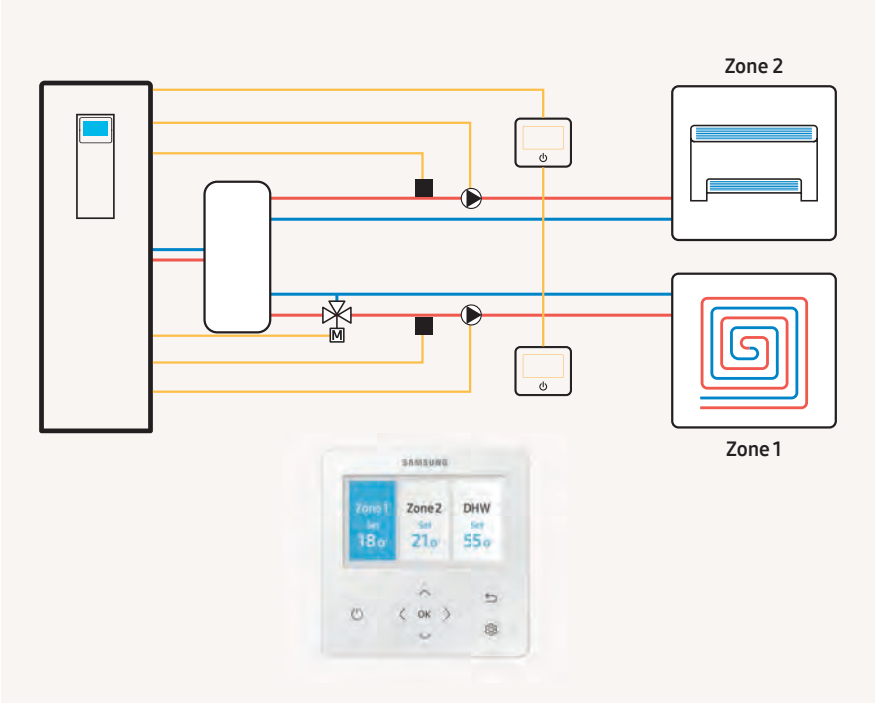
Complete control using MWR-WW10*N

The ClimateHub system controller allows simplified and intuitive management of all settings.

Estimation of consumption:
Measure energy consumed and shown directly on the controller menu.

Double climatic curve:
Set the climatic curve adapting the heat supply to the thermal requirement of the building. The delivery temperature to the system is adjusted automatically according to the external temperature. It offers enhanced performance in terms of comfort while maintaining a constant ambient temperature. Furthermore, thermal dispersions and energy waste are reduced.

Multizone management:
Via this command, it is possible to create and manage two zones with different desired temperatures.



Precise control by using a Flow Sensor

The plate heat exchanger, in which refrigerant and water exchange heat are present, is a component that plays an important role in reaching the desired temperature. In order for the plate heat exchanger to function, water must be properly supplied. A flow sensor[1] is built-in to sense the quantity of water supplied to the plate heat exchanger.

[1] Flow sensor is available in all ClimateHub and 9kW & 16kW Split wall-mounted hydro units.

Innovations in detail

TDM Plus

The perfect solution for climate control

The TDM Plus system is compatible and can work well with heating systems even at low temperatures . It also saves electricity during its operation in winter. The TDM Plus, therefore, is an optimal solution throughout the year.

ClimateHub
Integrated solution for heating/ cooling and domestic hot water supply.

Dispensing hot water
The hot water can be used at any time of the day.

Indoor units
Air-to-Air wall-mounted, console or duct unit for cooling or heating.

Photovoltaic panel
Can be connected with EHS

Floor heating / cooling
Hot water circulates in the floor panels heating / cooling the space

Control Panel
MWR-WW10*N
Controls ClimateHub

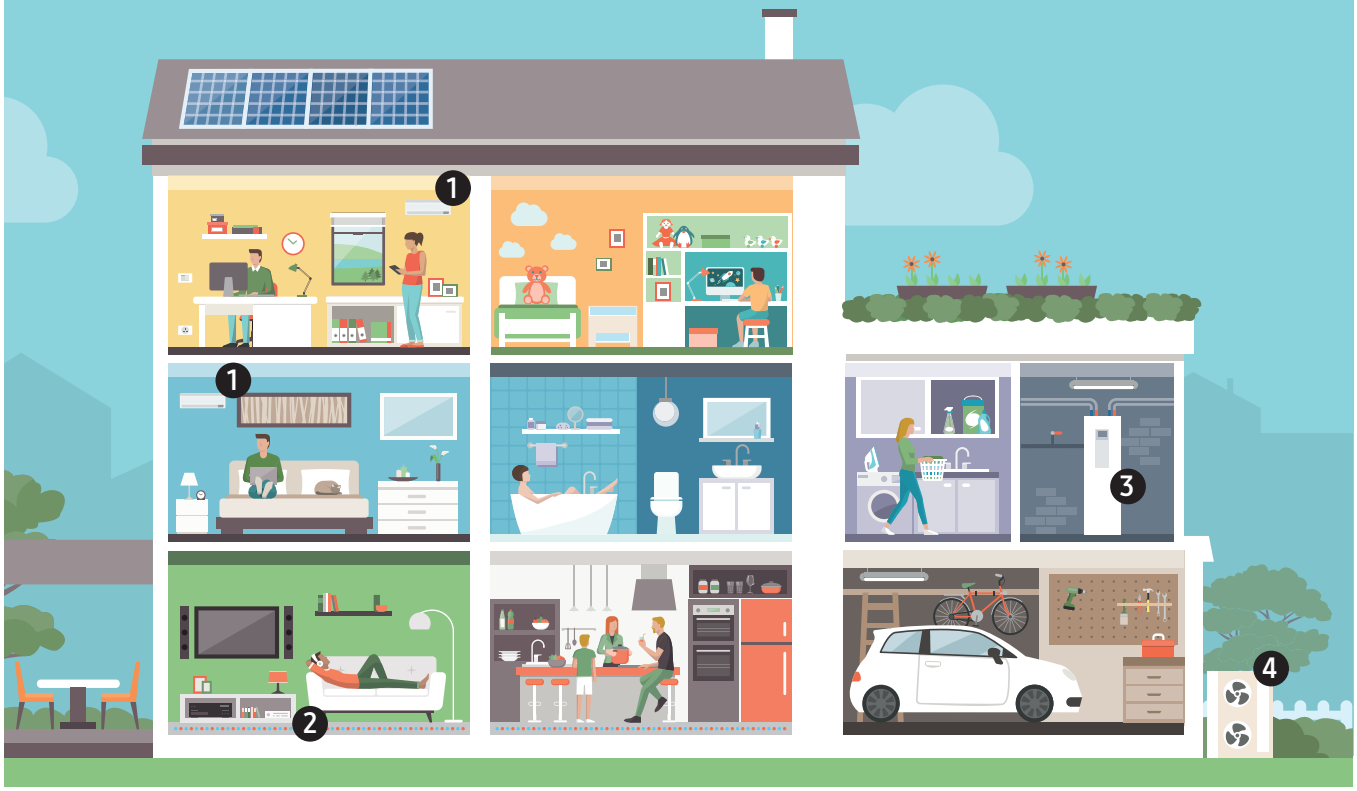
Wi-Fi kit
It allows monitoring and management of the system using smartphones remotely using the SmartThings app.

Outdoor unit
Offers high performance in all conditions.

EEV Kit
Possibility to reduce noise (only for interior walls).

TDM Plus - All-in-one system

A solution for optimal comfort, low cost installation and management



The Eco Heating System is suitable to satisfy a variety of scenarios. It can be used to replace the pre-existing fossil fuel or electrical boiler in the case of refurbishing the house, or it can be a suitable choice for a new home. The flexibility of the system allows you to adapt the TDM Plus to all specific comfort requirements as needed.

Operation overview

1

Direct expansion unit

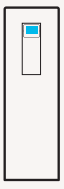
Available wall-mounted model with WindFree™ technology, consoles and low and medium static pressure duct units. Management via wireless control.

2

Underfloor heating

Under floor heating pipework (Not supplied by Samsung) connected to the heat pump. Management through the Samsung wired controller or third-party thermostat.

3



ClimateHub

For space heating and cooling and for production and storage of DHW up to 260 litres. It includes a primary pump and a diverting valve.

4

Outdoor unit

Air sourced outdoor unit is connected by piping.

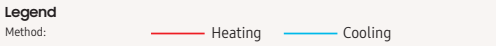
Innovations in detail

TDM Plus

All-in-one System

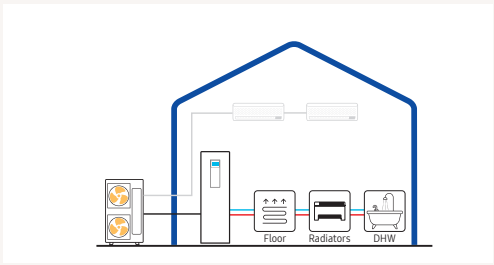
Samsung has developed the innovative TDM Plus technology (Time Division Multi) which allows operation of EHS in Air-to-Water mode and in Air-to-Air mode. The possibility of using the two operating modes allows considerable savings both in economic and installation terms.

TDM Plus system



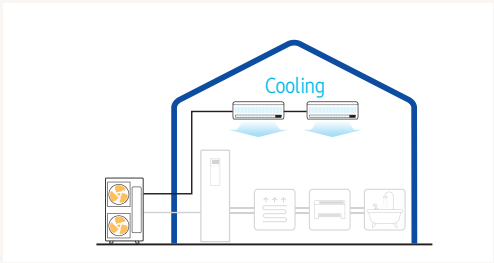
Air-to-Water cooling and heating

In this mode, the TDM Plus system is usable for the production of domestic hot water and heating of the house through radiators or underfloor heating. Thus the heat pumps allow you to heat the house more quickly by consuming even less energy. The TDM Plus can also supply chilled water for feeding fan coils during the summer period.



Air-to-Air cooling and heating

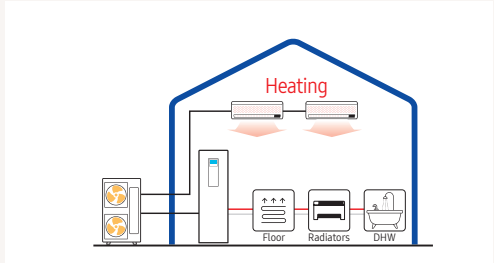
An exclusive feature of the TDM Plus systems, in Air-to-Air mode, is that it can operate both in the summer and winter. The cooling phase is also achieved immediately with the Air-to-Air mode. The advantage in the heating mode is the temperature speed control, compared to the use of radiators or radiant panels.



Air-to-Air and Air-to-Water

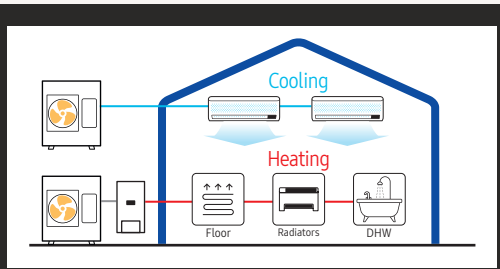
The greatest advantage of the TDM Plus systems is the combined use of Air-to-Air and Air-to-Water modes for heating and cooling. This means that on the coldest winter days it is possible to heat up the space quickly and easily, before the underfloor heating reaches the desired temperature. (As underfloor heating is quite slow but steady in keeping the room temperature, changes to the set temperature can take relatively long.)

Air-to-Air heating can raise the comfort quickly via heating the air in the room. Both Air-to-Air and Air-to-Water work in the same space to keep the desired room temperature.



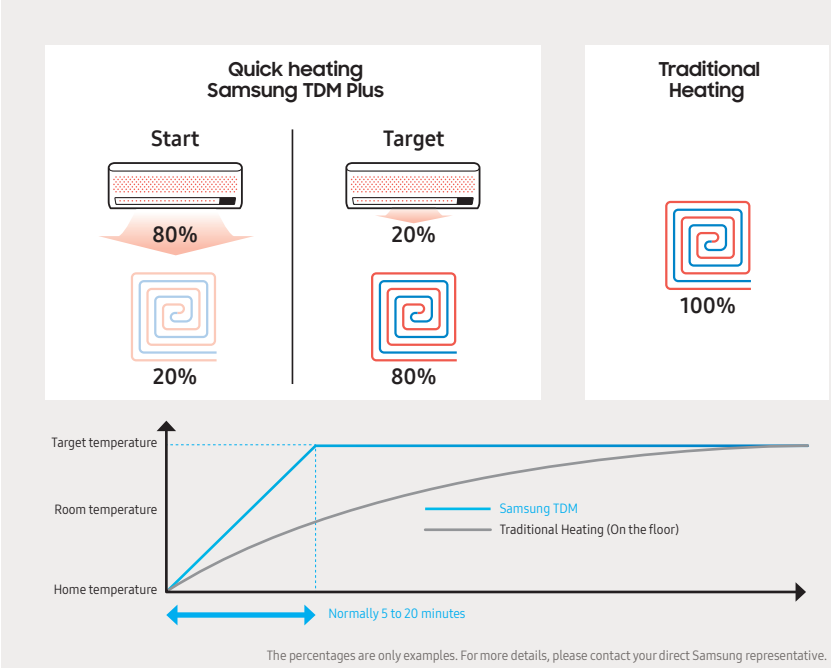
Traditional system

The traditional heat pump system require two distinct outdoor units for air conditioning and domestic hot water production. Unlike the TDM Plus, the need to use two outdoor units necessarily involves greater electricity consumption and greater installation space.



Fast heating
Using TDM Plus technology (Time Division Multi)

Underfloor heating is known to be an optimal system for ideal thermal comfort. They reach set temperature 4 ~ 8 hours from the moment of their activation. The TDM Plus technology used in the EHS system, also provides for the use of direct expansion Air-to-Air indoor units, thus drastically reducing the time to reach the desired room temperature.



The percentages are only examples. For more details, please contact your direct Samsung representative.

Operation priority

Hot water

Air conditioning

Traditional Heating (Underfloor)

Low radiator temperature

Customizable operation at any time

You can set the priorities and the operating modes for the TDM Plus heat pump using the control unit. You can also adapt the settings or parameters that suit you.

Innovations in detail

TDM Plus

High performance even at low temperatures

The TDM Plus system is equipped with an inverter compressor able to deliver up to 90 % of its nominal potential even at an outside temperature of -10 °C. Operation is guaranteed even if outside temperatures drop up to -25 °C.

Curing Concrete Function

When the unit is connected to a new underfloor heating grid, it is likely that the concrete top floor needs to cure. The EHS offers a concrete curing function to facilitate heating to the underfloor in order to improve curing time for the floor.

Quiet Operation

The Silent function allows you to reduce noise levels of the outdoor unit up to 7 DB (in 3-steps) , making it ideal for operation even at night. Activation is programmable through the remote controller.

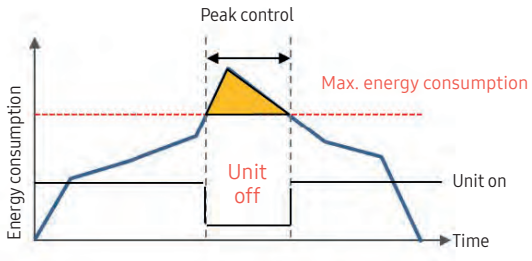
Emergency Mode

Even in case of interruption of the operation of the outdoor unit, the ClimateHub guarantees the production of hot water.

PV enabled & Smart Grid Ready

It allows to optimize the self-consumption of electricity produced by photovoltaic panels. Connection is already prepared on the hydronic modules and in the ClimateHub and Samsung EHS systems.

SMART GRID MANAGEMENT



Connection is managed internally by turning it off in peak situations.

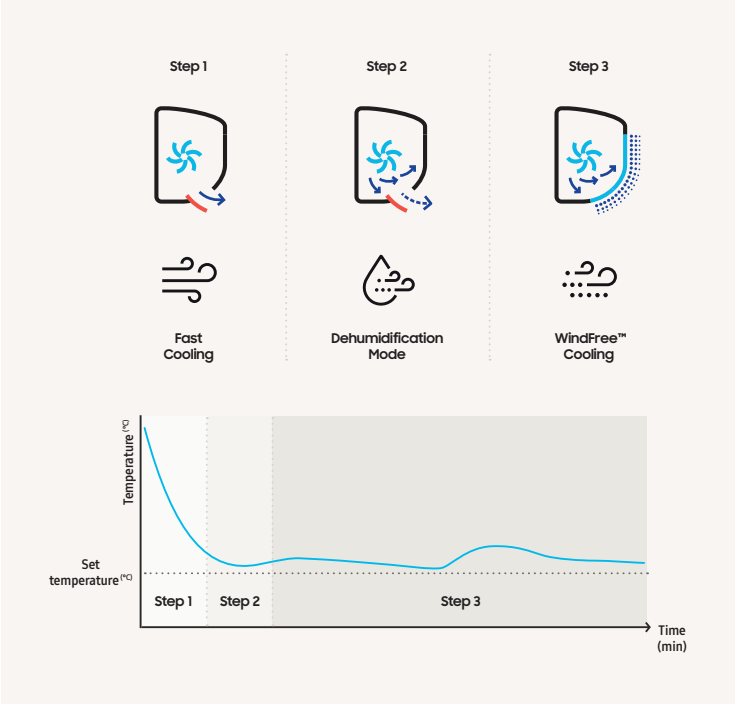
Innovations in detail

TDM Plus WindFree™ Deluxe

WindFree™ Cooling

WindFree™ Cooling mode keeps the room comfortably cool. It cools gently and quietly, dispersing air through 23,000 microholes so that consumers never have to deal with the unpleasant feeling of a cold draft on their skin. This results in a "Still Air" environment[1] with a very low air speed and limited noise[2]. The advanced airflow structure of this mode also means that it cools a wider and larger area more evenly. And it consumes up to 77 % less energy than Fast Cooling mode[3] so consumers can stay comfortably cool while reducing energy costs.

[1] ASHRAE (the American Society of Heating, Refrigerating, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts.
[2] Tested on the AR12TXCAAWKNEU model in an anechoic environment. WindFree™ mode generates 23 dB(A) of noise, compared to 26 dB(A) produced by the conventional Samsung model. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions.
[3] Tested on the AR12TVEAAWKNAP model under specific testing conditions, based on the power consumption of Fast Cooling mode versus WindFree™ Cooling mode.



Auto Clean

The Auto Clean functionality enables cleaning of the heat exchanger anytime after you turn off the unit. This function automatically dries the Heat Exchanger using a 3 step process and prevents the build up of bacteria and odors. It can easily be enabled or disabled with the click of the remote controller.

Easy Filter Plus

Unlike conventional filters that may be difficult to access the Easy Filter Plus is located externally on the top of the unit. This means it can be easily removed and cleaned without needing to open a cover or pull hard on it. Thanks to the filter's dense mesh it's very effective at capturing dust and therefore keeping the Heat Exchanger clean and working efficiently. The special coating on the filter helps protect residents from certain airborne contaminants[1].

[1] Tested in an external Korean test lab (FITI). Data has been measured under specific testing conditions and may vary depending on environmental factors and individual use. Certain airborne contaminants referred to are Escherichia coli ATCC 25922, Staphylococcus aureus ATCC 6538.

Easy to detach

Easy to clean

1. Silver ions penetrate the surface of bacteria when they come into contact with the Zeolite coating

2. Silver ions react with the bacterial proteins

Antibacterial process

Two screw points

No special tool needed

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

Assembled parts (6)/ Screw points (5)

Installation time[1]: 9.3 min

45% ⬇

Assembled parts (3)/ Screw points (2)

Installation time[1]: 5.1 min

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

Easy Installation and Servicing

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

Innovations in detail

TDM Plus Slim Duct

2-way Air Inlet

The TDM Plus Slim Duct has a 2-way air inlet – bottom or rear – that gives much more flexibility in selecting an installation location. It can be configured to provide the optimum airflow to almost any room, while being concealed behind ceilings.

Slim & Compact Design (199 mm Height)

Enhance the look and feel of almost any space with the TDM Plus Slim Duct. Being 199 mm high and 700 mm[1] wide, its slim and compact design is highly elegant, so it can be discretely concealed in many locations. It also makes installation, maintenance and repair quick and easy, so it's ideal for a wide range of businesses and residential homes.

[1] Based on the AM036KNLDEH/EU model. The width of other models may vary.

Purification System

The TDM Slim duct comes with a built-in purification system that ensures that the air in your premises is clean and hygienic. The purification system traps certain types of dust particles and helps to minimize the spread of dust and certain types of bacteria. It removes up to 99.7 % of certain type of airborne contaminants[1], as well as allergens[2].

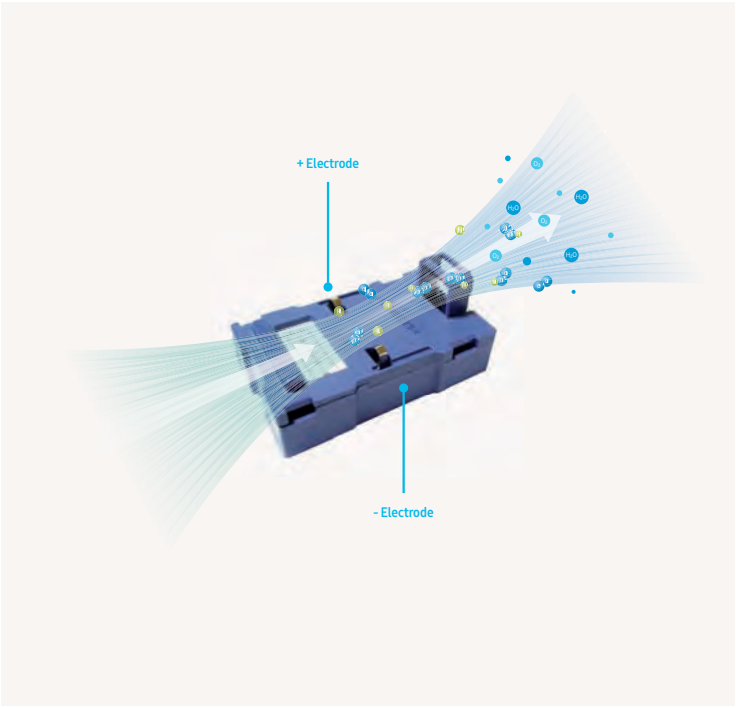
[1] Based on internal testing. Effective on 4 viruses, including Subtype H1N1, and certain bacteria. Data has been measured under specific testing conditions and results may vary depending on environmental factors and individual use.
[2] Tested in Kitasato Environmental Science Center (Japan) & Yonsei Univ.(Korea) / Korea test lab (FITI/KEMTI) and Japan test lab(ITEA).

Innovations in detail

TDM Plus Duct

Auto ESP Adjustment

Enjoy maximum comfort and efficiency with minimum effort. The Auto ESP Adjustment automatically optimizes the air volume and pressure and minimizes noise, ensuring consistent cooling and heating in any situation. The external static pressure (ESP) can also be adjusted using a remote control. The Auto ESP adjustment feature is applicable only in MSP Duct lineup.

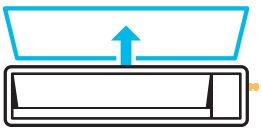


Keep cleaner Indoor Air Quality with SPi kit (optional)

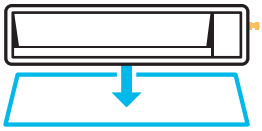
Users can enhance the indoor air quality with the optional Samsung Plasma ionizer kit for a cleaner work or living environment. The easy-to-install ionizer kit generates active hydrogen and oxygen ions to reduce air pollutants.

3-way Service Access

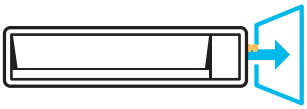
Install the ducted air conditioner in various locations, but still enjoy easy access for servicing. It can be accessed from three directions –top, side and bottom– using an easy to remove Slide Fit cover. So it's simple to maintain wherever it is installed in, which saves time and money.



Top access



Bottom access



Side access

Innovations in detail

TDM Plus Console

Slim and Smart Design

The TDM Plus Console has a slim and smart design. Being just 199 mm thick, it will fit into almost any space and helps maintain optimal temperature. An innovative panel also prevents dust from accumulating. The black touchscreen display adds convenience and elegance.

2-Way Air Outlets

The 2-Way Air Outlets ensure that every inch of space quickly reaches the desired temperature, and stays that way. Warm air is expelled from the bottom air outlet, helping to spread warmth evenly throughout the room.

Silent Mode

The TDM Plus Console allows for a selection of 4 operating modes (High, Medium, Low and Silent) to enjoy optimal heating and cooling in a variety of situations. In Silent mode it generates a quiet, but comfortable airflow with a noise level of 23 dBA[1].

[1] Based on internal testing. Results may vary depending on individual use.

Innovations in detail

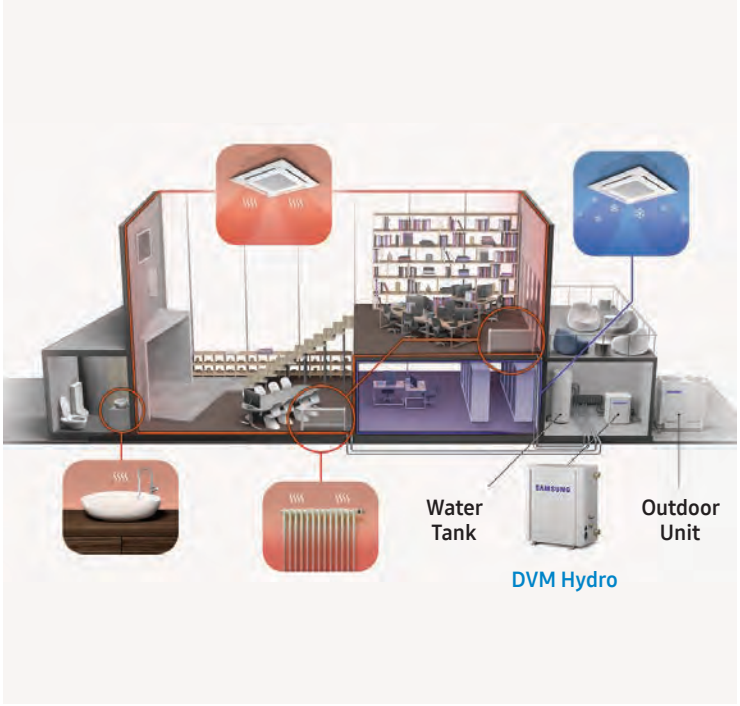
DVM Hydro Unit

Performance

The Samsung DVM Hydro unit provides a single solution for cooling, heating and hot water that is both efficient and easy to manage.

An Integrated Solution in One System

The DVM Hydro system is compatible with all DVM S outdoor units and can be added to create a single, integrated solution for cooling, heating and hot water that's simple to manage. So it ensures much greater efficiency to suit a variety of demands, generating substantial energy and cost savings all year round with its high-efficiency heat pump technology.



2 Types - with a Choice of Hot Water needs

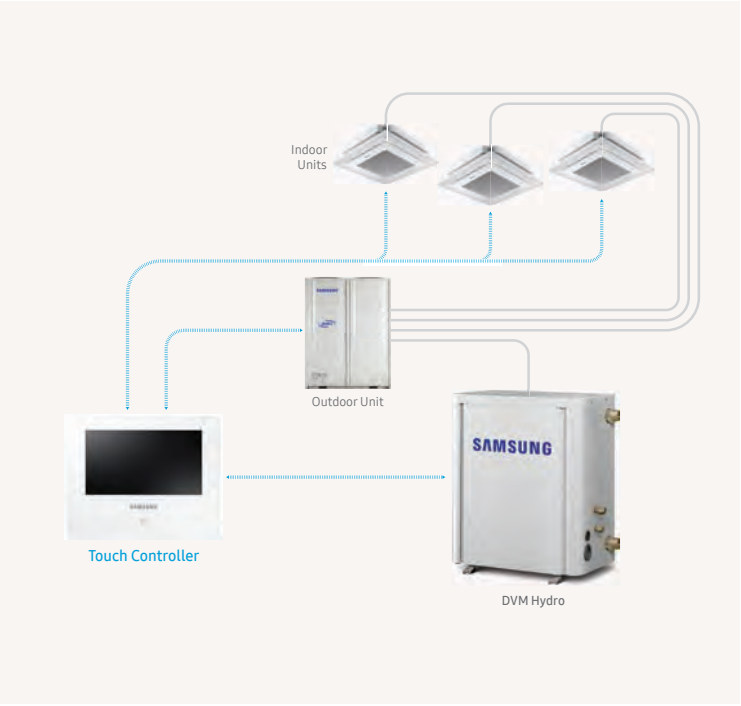
The DVM Hydro is available in two types. The DVM Hydro HE provides water at a mid temperature of 50 °C, while the DVM Hydro HT's advanced, double compression technology generates much hotter water at 80 °C.
The perfect solution to satisfy the requirements of various sites.

Installation & Control

The Samsung DVM Hydro is easy to install and connect to a range of other devices, and can also be independently or centrally controlled.

Simple & Easy Connection for External Control

The DVM Hydro is very quick and easy to install and use for many different purposes. It includes a range of connections for various external input and output devices, such as Tank Sensors, Booster Heaters, 2- and 3-way Valves, and Room Thermostats.



Integrated Control System

The DVM Hydro can be independently or centrally operated along with a variety of Samsung DVM systems. For standalone use on individual sites it has its own control system or, using the Samsung DVM S Controller, it can be integrated with various DVM systems eg. for water and air, and managed centrally.

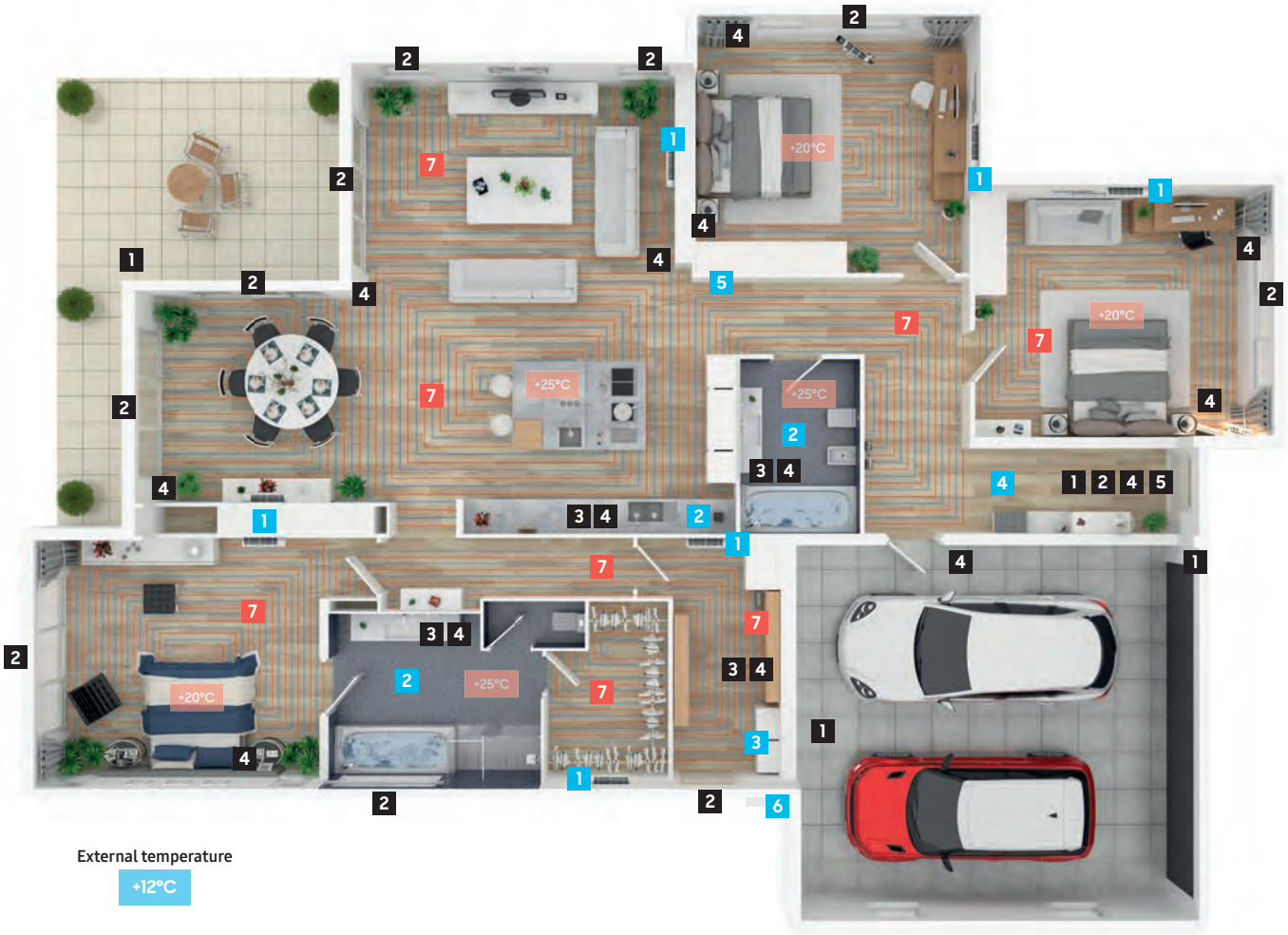
Innovations in detail

SmartThings

New Generation Wireless Smart Home Automation

SmartThings is one of the largest open ecosystems of connected devices worldwide and is available on both Android and IOS. It is compatible with the leading voice assistants and a wide range of different brand devices, giving control over smart devices in one place.

With the SmartThings App much more can be done than just turning devices on and off. The App makes it possible for devices from Samsung and other brands to work together easily at fixed times by creating "Automations" or "Scenes". Additionally, the Geo-Fencing functionality allows the room temperature to be automatically set at the desired level when the user approaches within a preset distance.



External temperature

+12°C

THERMO-SANITARY COMPONENTS

1. Indoor unit
2. Hot Water
3. ClimateHub
4. Wi-Fi Kit 2.0
5. Touch centralised control
6. Outdoor unit
7. Underfloor heating

HOME AUTOMATION COMPONENTS

1. SmartThings Motion sensor
2. SmartThings Multipurpose sensor
3. SmartThings Water Leak sensor
4. SmartThings Button
5. SmartThing Hub

A wide range of smart devices can be managed

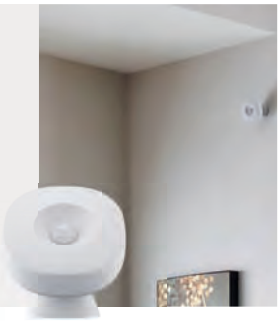
With the help of the SmartThings Hub a wide range of devices can be integrated into the ecosystem, manageable with a single app, through Zigbee and Z-Wave protocols, and make them interact with evolved logic. The user can receive security notifications, detect water leaks, or schedule lights to come on with SmartThings sensors and plugs. In this way, it is possible to create scenarios and automations by transforming the house into a smart home with simple gestures and without structural interventions.

SmartThings Multipurpose sensor

Easily installable on doors and windows, it recognizes their opening thanks to a magnetic sensor. By using the multi purpose sensor you can reduce heat loss as the air conditioner or EHS will be turned off when window is open.

SmartThings Motion sensor

Allows to set automatic lighting and other devices when it detects movement. When away from home, the Motion sensor can send an alarm signal to the Smart Phone if it detects unwanted movements.



Compatible with:

Bixby

works with the Google Assistant

works with amazon alexa

SmartThings Hub

This is the brain of the Samsung home automation: It communicates with all devices that can be managed via the app and allows for management via SmartThings. Compatible with voice assistants like Bixby[1], Google Home[1] and Amazon Alexa[1].

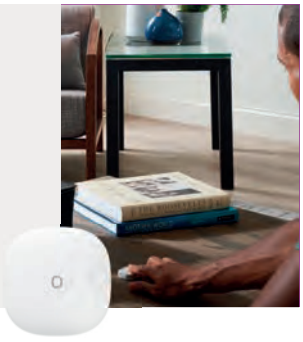
[1] Voice control is supported by AI speakers such as Samsung Bixby 2.0, Google Assistant (Google Home) and Amazon Alexa. Google Assistant is not available in certain languages and countries. Google is a trademark of Google LLC.

SmartThings Water Leak sensor

Place this sensor near the ClimateHub water tank, shower and or pipes to detect any water leaks or condensation. This can help to quickly identify leakage when they occur.

SmartThings button

The button can be positioned at any point of the house, allowing to activate any smart device connected to it, depending on the set mode.



Contact your local Samsung Representative for more information on SmartThings.

Innovations in detail

SmartThings

The SmartThings App enables management of a home with a simple click. The SmartThings App provides connectivity with the EHS heat pumps, WindFree™ air conditioners and Samsung audio / video appliances and devices through home Wi-Fi. Compatible with voice assistants like Bixby[1], Google Home[1] and Amazon Alexa[1].

[1] Voice control is supported by AI speakers such as Samsung Bixby 2.0, Google assistant (Google Home) and Amazon Alexa. Google Assistant is not available in certain languages and countries. Google is a trademark of Google LLC.

[1] **App Voice Recognition:** Bixby voice is an intelligent voice assistant that helps you use the device more conveniently.

Wi-Fi Kit 2.0

Remotely control and monitor up to 16 indoor units with ease by using the SmartThings App[2].

Enhanced Convenience

The voice command feature is available through a smartphone with Bixby[1]. Temperatures can also be managed remotely anytime, and anywhere, using the SmartThings app[2].

Personalised Climate Environment

Operates in your preferred mode according to the user settings. The geofencing functionality allows the room temperature to be automatically set at the desired level when the user approaches within a preset distance from the building. The Wi-Fi-Kit (optional) is mandatory to enable a multi-device experience interoperable with smart appliances.

Energy Usage Monitoring[3]

Energy usage can be monitored daily, weekly and monthly at a glance.

Provides ease of installation

Allows for easy setup possible for up to 16 indoor units.

[1] Currently Voice control is supported in English (US, UK, Indian), Chinese, Korean, French, German, Italian, Spanish and Portuguese. [2] A Wi-Fi connection and Samsung SmartThings application account are required. Wi-Fi Kit to be ordered separately. Requires iOS 10.0 or later & Android 5.0 or later. [3] Current and daily, weekly or monthly energy usage of the outdoor unit is reference data calculated for information and reference purposes only.

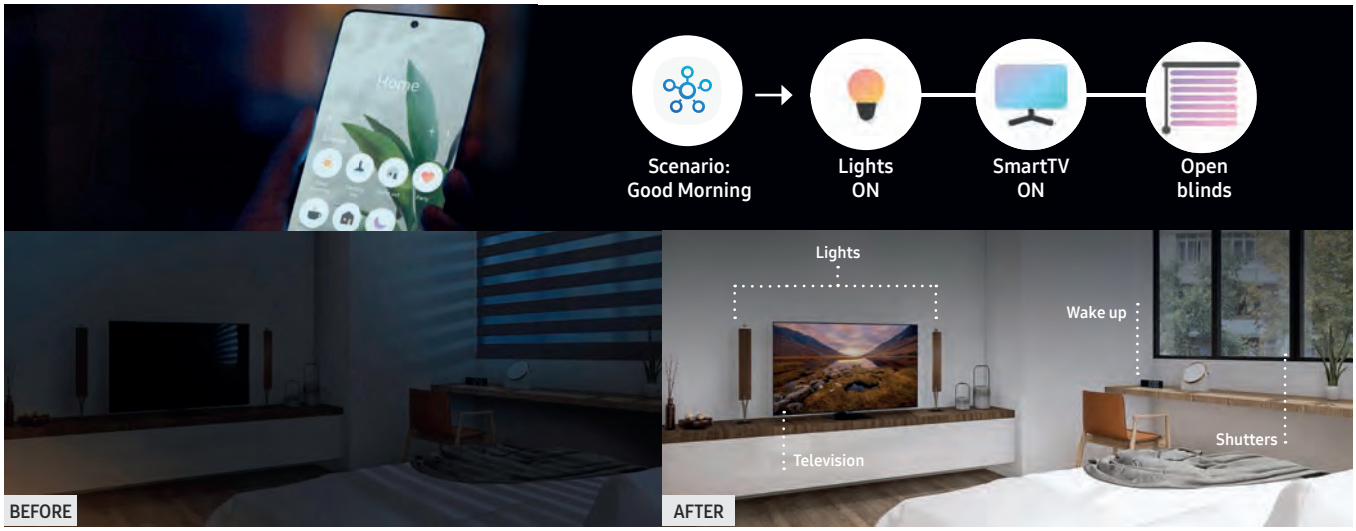
Creation of automations and scenarios

Automation

Automatically control devices or run scenes when certain conditions are met. Make devices from Samsung and other brands work together easily.

Scenes

A group of actions that can be triggered manually by voice or through automations to control multiple products.



EHS


SAMSUNG

Line-up

ClimateHub

Outdoor Unit

Tank Integrated Hydro Unit

Type		Power	Model Name	Capacity	Tank Integrated Hydro Unit (Split)			Tank Integrated Hydro Unit (Mono)			Tank Integrated Hydro Unit (TDM Plus)	
					200 L(1Φ)	260 L(1Φ)	260 L(3Φ)	200 L(1Φ)	260 L(1Φ)	260 L(3Φ)	200 L(1Φ)	260 L(1Φ)
					AE200RNWSEG/EU	AE260RNWSEG/EU	AE260RNWSGG/EU	AE200RNWMEG/EU	AE260RNWMEG/EU	AE260RNWMGG/EU	AE200TNWTEH/EU	AE260TNWTEH/EU
R32 Outdoor Unit	Mono	1Φ	AE050RXYDEG/EU	5.0 kW				●				
			AE080RXYDEG/EU	8.0 kW				●	●			
			AE120RXYDEG/EU	12.0 kW				●	●			
			AE160RXYDEG/EU	16.0 kW				●	●			
		3Φ	AE080RXYDGG/EU	8.0 kW						●		
			AE120RXYDGG/EU	12.0 kW						●		
			AE160RXYDGG/EU	16.0 kW						●		
	Split	1Φ	AE040RXEDEG/EU	4.0 kW	●	●						
			AE060RXEDEG/EU	6.0 kW	●	●						
			AE090RXEDEG/EU	9.0 kW	●	●						
		3Φ	AE090RXEDGG/EU	9.0 kW			●					
R410A Outdoor Unit	TDM Plus	1Φ	AE044MXTPEH/EU	4.4 kW							●	●
			AE066MXTPEH/EU	6.6 kW							●	●
			AE090MXTPEH/EU	9.0 kW							●	●
			AE120MXTPEH/EU	12.0 kW								●
			AE160MXTPEH/EU	16.0 kW								●
		3Φ	AE090MXTPGH/EU	9.0 kW							●	●
			AE120MXTPGH/EU	12.0 kW								●
			AE160MXTPGH/EU	16.0 kW								●

TDM Plus Indoor

Type		WindFree™ Deluxe	Slim Duct	MSP Duct	Console
Capacity	2.2 kW	●	●		●
	2.8 kW	●	●		●
	3.6 kW	●	●		●
	5.6 kW	●	●		●
	7.1 kW	●		●	
	9.0 kW			●	

Optional Controller

Bixby
SmartThings

Model	MIM-H04EN
Model name	Wi-Fi Kit 2.0
Maximum connectible Indoor Units	16
App	SmartThings
Voice recognition	Bixby
Welcome Cooling/Heating	Geofencing
Automation	Customised control with a variety of execution rules
Add scene	Easy control throughout customised user mode
Energy monitoring	Individual energy monitoring up to 16 outdoor units
Product dimensions (mm) W x H x D	185 x 130 x 29

Model	MWR-WW10*N
Model name	Touch Controller
Screen size/type	4.3" Color LCD display
Intuitive user interface	Dynamic navigation with simplified buttons
Operation	Heating / Cooling/ Auto / DHW
Functions	Smart Grid Ready / PV Ready / 2-zone Control / Energy consumption monitor / Energy saving
Smart connectivity	SmartThings via optional Wi-Fi Kit 2.0
Languages	
MWR-WW10N	English, German, French, Italian, Spanish, Polish (EN, DE, FR, IT, ES, PL)
MWR-WW10JN	English, Portuguese, Dutch, Greek, Czech, Slovak (EN, PT, NL, EL, CS, SK)
MWR-WW10KN	English, Finnish, Swedish, Norwegian, Danish, Lithuanian (EN, FI, SV, NO, DA, LT)
Product dimensions (mm) W x H x D	120x120x19

Line-up

EHS with Third Party DHW Tank

Mono with Third Party DHW Tank

Outdoor Unit

Mono Control Kit

DHW Tank (third party)

Type		Power	Model Name	Capacity	Mono MIM-E03CN
R32 Outdoor Unit	Mono	1Φ	AE050RXYDEG/EU	5.0 kW	●
			AE080RXYDEG/EU	8.0 kW	●
			AE120RXYDEG/EU	12.0 kW	●
			AE160RXYDEG/EU	16.0 kW	●
		3Φ	AE080RXYDGG/EU	8.0 kW	●
			AE120RXYDGG/EU	12.0 kW	●
			AE160RXYDGG/EU	16.0 kW	●

Split with Third Party DHW Tank

Outdoor Unit

Wall-Mounted Hydro Unit

DHW Tank (third party)

Type		Power	Model Name	Capacity	Wall-Mounted Hydro Unit Split(1Φ) AE090RNYDEG/EU	Wall-Mounted Hydro Unit Split(3Φ) AE090RNYDGG/EU
R32 Outdoor Unit	Split	1Φ	AE040RXEDEG/EU	4.0 kW	●	
			AE060RXEDEG/EU	6.0 kW	●	
			AE090RXEDEG/EU	9.0 kW	●	
		3Φ	AE090RXEDGG/EU	9.0 kW		●
					AE160ANYDEH/EU	AE160ANYDGH/EU
R410A Outdoor Unit	Split	1Φ	AE120AXEDEH/EU	12.0 kW	●	
			AE160AXEDEH/EU	16.0 kW	●	
		3Φ	AE120AXEDGH/EU	12.0 kW		●
			AE160AXEDGH/EU	16.0 kW		●

TDM Plus with Third Party DHW Tank

TDM Plus with Third Party DHW Tank

Outdoor Unit

Wall-Mounted Hydro Unit

DHW Tank (third party)

Type		Power	Model Name	Capacity	Wall-Mounted Hydro Unit			
					Split(1Φ)		Split(3Φ)	
					AE090MNYDEH/EU	AE160MNYDEH/EU	AE090MNYDGH/EU	AE160MNYDGH/EU
R410A TDM Plus Outdoor Unit	Split	1Φ	AE044MXTPEH/EU	4.4 kW	●			
			AE066MXTPEH/EU	6.6 kW	●			
			AE090MXTPEH/EU	9.0 kW	●			
			AE120MXTPEH/EU	12.0 kW		●		
			AE160MXTPEH/EU	16.0 kW		●		
		3Φ	AE090MXTPGH/EU	9.0 kW			●	
			AE120MXTPGH/EU	12.0 kW				●
			AE160MXTPGH/EU	16.0 kW				●

Renovation Solutions

DVM S Eco with Hydro HT

Outdoor Unit

Hydro Unit HT

DHW Tank (third party)

Type		Power	Model Name	Capacity	Hydro Unit HT (High Temperature)		
					Split(1Φ)	Split(3Φ)	
					AM160TNBFEB/EU	AM250TNBFGB/EU	
R410A DVM Outdoor Unit	DVMS Eco	1Φ	AM050KXMDEH/EU	5 HP/ 14 kW	●		
		3Φ	AM080FXMDGH/EU	8 HP/ 25 kW		●	

Selecting the right heating system

		New Built (up to 16 kW)	
		ClimateHub	
		 	
		Mono / Split (R32)	TDM Plus (R410A)
Main Function	A2W Cooling	●	●
	A2W Heating	●	●
	A2W Domestic Hot Water	●	●
	A2A Cooling		●
	Maximum Allowable Indoor unit Connections		up to 7 Indoor unit
Comfort	Colour Display	●	●
	Low Noise[1]	●	●
	Outing	●	●
	Schedule / Holiday Mode	●	●
	Emergency Operation	●	●
Feature	Wi-Fi Kit SmartThings	●	●
	Wired Remote Controller	●[2]	●[2]
	Zone Controller	●	●
	Mixing Valve[4]	●	●
	3-Way Valve	●	●
	2-Way Valve[4]	●	●
	Thermostat Control	●	●
	PV Integrated	●	●
	Smart Grid Ready	●	●
	Energy Consumption Monitoring	●	●
	Set FSV with SD Card	●	●
Smart Install	Smart Checking	●	●

New Built (up to 16 kW)				Renovation (16-25 kW)
Third Party DHW Tank solutions				DVM S Eco HT Hydro
				

Mono (R32)	Split (R32)	Split (R410A)	TDM Plus (R410A)	DVM S Eco Hydro HT (R410A)
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
			●	●
			up to 7 Indoor unit	
●	●	●		●
●	●	●	●	
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●[2]	●	●	●	●
●[3]	●	●	●[3]	●
●	●	●	●	●
●[4]	●[4]	●[4]	●[4]	●
●	●	●	●	●
●	●	●	●	●
●	●	●		●
	●	●		●
●	●	●		●
				●
●	●	●	●	●

[1] Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.
[2] Wired Remote Controller to be ordered separately. [3] In combination with an external room sensor. [4] Not provided by Samsung.

Nomenclature

Indoor units

AE	260	A	N	W	S	E	G
1	2	3	4	5	6	7	8

1	Classification	AE	EHS
		AM	DVM
2	Capacity		x1/10 kW (3 digits)
			x Litre (3 digits)
3	Year	J	2015
		M	2017
		R	2019
		T	2020
		A	2021
4	Product Type	N	Indoor Unit (NASA)
5	Product Notation	A/X	RAC Wall-Mounted
		B	Hydro Unit
		J	Console
		L	LSP Duct
		M	MSP Duct
		W	Tank Integrated Hydro Unit
		Y	Wall-Mounted Hydro Unit
6	Feature	D	Standard
		P	
		F	Flagship
		M	Mono
		S	Split
		T	TDM Plus
7	Rating Voltage	E	1Φ, 220~240 V, 50 Hz
		G	3Φ, 380~415 V, 50 Hz
8	Mode	B	R134 Heat Pump
		G	R32 Heat Pump
		H	R410A Heat Pump

Outdoor units

AE	090	A	X	E	D	E	G
1	2	3	4	5	6	7	8

1	Classification	AE	EHS
		AM	DVM
2	Capacity		x1/10 kW (3 digits)
3	Year	F	2013
		J	2015
		K	2016
		M	2017
		N	2018
		R	2019
		A	2021
4	Product Type	X	Outdoor Unit (NASA)
5	Product Notation	E	Split
		M	DVM S Eco
		T	TDM Plus
		Y	Mono
6	Feature	D	Standard
		P	
7	Rating Voltage	E	1Φ, 220~240 V, 50 Hz
		G	3Φ, 380~415 V, 50 Hz
8	Mode	G	R32 Heat Pump
		H	R410A Heat Pump
		R	Heat Recovery

Mono

Project: Atico en el Retiro (Spain)
Project Architecture: ÁBATON
Interior Design: BATAVIA
Photography: Belén Imaz

Specifications

ClimateHub Mono R32

- Integrated solution for heating and domestic hot water.
- Compact unit size with large water tank (200 L & 260 L).
- Intuitive, colour screen touch controller in multiple languages.
- Energy monitoring through touch controller.
- Smooth servicing through the front-mounted service window.
- PV and Smart Grid ready.
- 2-zone Control, suitable for floor heating and radiators.
- SCOP rating of A+++*.
- SmartThings compatible with optional Wi-Fi kit.
- Backup heater is included to ensure a minimum water temperature.




	Indoor Unit Outdoor Unit Controller				AE200RNWMEG/EU AE050RXYDEG/EU MWR-WW10N	AE200RNWMEG/EU AE080RXYDEG/EU MWR-WW10N	AE200RNWMEG/EU AE120RXYDEG/EU MWR-WW10N
System	Operation	Nominal Capacity	Heating A7/W35[1] / A7/W55[2]	kW	5.0/4.3	8.0/7.1	12.0/11.3
			Cooling A35/W18[1]	kW	5.0	7.5	12.0
		Power Input (Nominal)	Heating A7/W35[1] / A7/W55[2]	kW	1.03/1.52	1.77/2.53	2.65/3.73
			Cooling A35/W18[1]	kW	1.14	1.90	2.77
		COP (Nominal Heating) A7/W35[1] / A7/W55[2]		W/W	4.85/2.83	4.52/2.81	4.53/3.03
		EER (Nominal Cooling) A35/W18[1]		W/W	4.39	3.95	4.33
		SCOP LWT 35°C/ 55°C		W/W	4.46/3.2	4.44/3.23	4.69/3.51
		Seasonal Space Heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	175/ 125	175/ 126	185/ 138
		Seasonal Space Heating Eff. class * LWT 35°C/ 55°C		-	A+++ / A++	A+++ / A++	A+++ / A++
		Current	MCA	A	16.00	22.00	28.00
			MFA	A	20.00	27.50	35.00
		Water Flow Rate	Low / Medium temperature	l/min	14.4/7.8	23.1/12.8	34.6/20.4
		Leaving Water Temperature[3]	Heating	°C	15~65	15~65	15~65
			Cooling	°C	5~25	5~25	5~25
	Functions	Smart Grid Ready / PV Enabled		-	•	•	•
		3-Step Quiet Mode		-	•	•	•
		2-zone Control		-	•	•	•
Tank Integrated Hydro Unit	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
	Water Tank Volume			litres	200	200	200
	Declared Load Profile			L/XL	L	L	L
	Average water heating efficiency ηwh			ETA%	115	115	110
	Average Energy Efficiency Class			-	A	A	A
	Sound	Sound Pressure[4]	Heating Std	dB(A)	26	26	30
			Cooling Std	dB(A)	26	26	30
		Sound Power	Heating Std	dB(A)	40	40	44
	Heater	Back-up heater Capacity	Default (Option)	kW	2 (4/6)	2 (4/6)	2 (4/6)
	Piping	Water Pipe (Space Heating)	Inlet/ Outlet	Φ, mm	28/28	28/28	28/28
		Water pipe (DHW)	Inlet/ Outlet	Φ, mm	22/22	22/22	22/22
	Dimensions	Net Weight		kg	130.0	130.0	130.0
		Net Dimensions (WxHxD)		mm	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
Outdoor Unit	Power Supply			Φ, V, Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz
	Compressor	Type		-	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Base Heater	Capacity		kW	-	0.15	0.15
	Sound	Sound Pressure[4]	Heating Std	dB(A)	45	48	50
			Cooling Std	dB(A)	45	48	50
		Sound Power	Heating Std	dB(A)	61	63	64
	Dimensions	Net Weight		kg	58.5	76.0	110.0
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330	940 x 1,420 x 330
	Refrigerant	Type			R32 (Fluorinated greenhouse gas, GWP=675)		
		Factory Charging		tCO_2e	0.68	0.78	1.49
				kg	1.00	1.15	2.20
	Piping	Water Pipe (Space Heating)	Inlet/ Outlet	Φ, mm	28/28	28/28	28/28
	Operation	Ambient Temperature	Heating	°C	-25~35	-25~35	-25~35
			Cooling	°C	10~46	10~46	10~46
			DHW	°C	-25~43	-25~43	-25~43

Accessories

Touch Controller
MWR-WW10*N

Touch Controller
MCM-A300N

DMS2.5
MIM-D01AN

Wi-Fi Kit
MIM-H04EN

External Room Sensor
MRW-TA

Backup Heater (4/6kW)
MHC-*00FE

AE200RNWMEG/EU AE160RXYDEG/EU MWR-WW10N	AE260RNWMEG/EU AE080RXYDEG/EU MWR-WW10N	AE260RNWMEG/EU AE120RXYDEG/EU MWR-WW10N	AE260RNWMEG/EU AE160RXYDEG/EU MWR-WW10N
16.0/15.0	8.0/7.1	12.0/11.3	16.0/15.0
14.0	7.5	12.0	14.0
3.62/5.18	1.77/2.53	2.65/3.73	3.62/5.18
3.28	1.90	2.77	3.28
4.42/2.90	4.52/2.81	4.53/3.03	4.42/2.90
4.27	3.95	4.33	4.27
4.48/3.53	4.44/3.23	4.69/3.51	4.48/3.53
176/ 138	175/ 126	185/ 138	176/ 138
A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
32.00	22.00	28.00	32.00
40.00	27.50	35.00	40.00
46.2/27.1	23.1/12.8	34.6/20.4	46.2/27.1
15~65	15~65	15~65	15~65
5~25	5~25	5~25	5~25
•	•	•	•
•	•	•	•
•	•	•	•
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
200	260	260	260
L	XL	XL	XL
110	123	117	117
A	A	A	A
30	26	30	30
30	26	30	30
44	40	44	44
2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)
28/28	28/28	28/28	28/28
22/22	22/22	22/22	22/22
130.0	140.0	140.0	140.0
595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz
BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
0.15	0.15	0.15	0.15
52	48	50	52
54	48	50	54
66	63	64	66
110.0	76.0	110.0	110.0
940 x 1,420 x 330	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330
R32 (Fluorinated greenhouse gas, GWP=675)			
1.49	0.78	1.49	1.49
2.20	1.15	2.20	2.20
28/28	28/28	28/28	28/28
-25~35	-25~35	-25~35	-25~35
10~46	10~46	10~46	10~46
-25~43	-25~43	-25~43	-25~43

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*A+++ energy label is available according to EU No. 811/2013 label classification 2019, on a scale from D to A+++

[1] A2W Condition : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

[2] A2W Condition : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].

[3] 65°C down to +10°C (max. 60°C down to -5°C)

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

Specifications

ClimateHub Mono (Continued) R32




	Indoor Unit Outdoor Unit Controller				AE260RNWMGG/EU AE080RXYDGG/EU MWR-WW10N	AE260RNWMGG/EU AE120RXYDGG/EU MWR-WW10N	AE260RNWMGG/EU AE160RXYDGG/EU MWR-WW10N
System	Operation	Nominal Capacity	Heating A7/W35[1] / A7/W55[2]	kW	8.0/7.1	12.0/11.3	16.0/15.0
			Cooling A35/W18[1]	kW	7.5	12.0	14.0
		Power Input (Nominal)	Heating A7/W35[1] / A7/W55[2]	kW	1.77/2.53	2.65/3.73	3.62/5.18
			Cooling A35/W18[1]	kW	1.90	2.77	3.28
		COP (Nominal Heating) A7/W35[1] / A7/W55[2]		W/W	4.52/2.81	4.53/3.03	4.42/2.90
		EER (Nominal Cooling) A35/W18[1]		W/W	3.95	4.33	4.27
		SCOP LWT 35°C/ 55°C		W/W	4.44/3.23	4.69/3.51	4.48/3.53
		Seasonal Space Heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	175/ 126	185/ 138	176/ 138
		Seasonal Space Heating Eff. class * LWT 35°C/ 55°C		-	A+++ / A++	A+++ / A++	A+++ / A++
		Current	MCA	A	10.00	10.00	12.00
			MFA	A	16.10	16.10	16.10
		Water Flow Rate	Low / Medium temperature	l/min	23.1/12.8	34.6/20.4	46.2/27.1
		Leaving Water Temperature[3]	Heating	°C	15~65	15~65	15~65
			Cooling	°C	5~25	5~25	5~25
	Functions	Smart Grid Ready / PV Enabled		-	•	•	•
		3-Step Quiet Mode		-	•	•	•
		2-zone Control		-	•	•	•
Tank Integrated Hydro Unit	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
	Water Tank Volume			litres	260	260	260
	Declared Load Profile			L/XL	XL	XL	XL
	Average water heating efficiency ηwh			ETA%	123	117	117
	Average Energy Efficiency Class			-	A	A	A
	Sound	Sound Pressure[4]	Heating Std	dB(A)	26	30	30
			Cooling Std	dB(A)	26	30	30
		Sound Power	Heating Std	dB(A)	40	44	44
	Heater	Back-up heater Capacity	Default (Option)	kW	6	6	6
	Piping	Water Pipe (Space Heating)	Inlet/ Outlet	Φ, mm	28/28	28/28	28/28
		Water pipe (DHW)	Inlet/ Outlet	Φ, mm	22/22	22/22	22/22
	Dimensions	Net Weight		kg	140.0	140.0	140.0
		Net Dimensions (WxHxD)		mm	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
Outdoor Unit	Power Supply			Φ, V, Hz	3Φ, 380~415 V, 50 Hz	3Φ, 380~415 V, 50 Hz	3Φ, 380~415 V, 50 Hz
	Compressor	Type		-	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Base Heater	Capacity		kW	0.15	0.15	0.15
	Sound	Sound Pressure[4]	Heating Std	dB(A)	48	50	52
			Cooling Std	dB(A)	48	50	54
		Sound Power	Heating Std	dB(A)	63	64	66
	Dimensions	Net Weight		kg	75.0	111.0	111.0
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330
	Refrigerant	Type			R32 (Fluorinated greenhouse gas, GWP=675)		
		Factory Charging		tCO_2e	0.78	1.49	1.49
				kg	1.15	2.20	2.20
	Piping	Water Pipe (Space Heating)	Inlet/ Outlet	Φ, mm	28/28	28/28	28/28
	Operation	Ambient Temperature	Heating	°C	-25~35	-25~35	-25~35
			Cooling	°C	10~46	10~46	10~46
			DHW	°C	-25~43	-25~43	-25~43

Project: Atico en el Retiro (Spain)
Project Architecture: ÁBATON
Interior Design: BATAVIA
Photography: Belén Imaz

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[1] A2W Condition : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

[2] A2W Condition : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].

[3] 65°C down to +10°C (max. 60°C down to -5°C)

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

Specifications

Mono with Third Party DHW Tank R32

- Intuitive, colour screen touch controller in multiple languages.
- Energy monitoring through touch controller.
- PV and Smart Grid ready.
- 2-zone Control, suitable for floor heating and radiators.
- SmartThings compatible with optional Wi-Fi kit.
- Backup heater is recommended to ensure a minimum water temperature.



	Outdoor Unit				AE050RXYDEG/EU	AE080RXYDEG/EU	AE120RXYDEG/EU
	Control Kit				MIM-E03CN	MIM-E03CN	MIM-E03CN
System	Operation	Nominal Capacity	Heating A7/W35[1] / A7/W55[2]	kW	5.0/4.3	8.0/7.1	12.0/11.3
			Cooling A35/W18[1]	kW	5.0	7.5	12.0
		Power Input (Nominal)	Heating A7/W35[1] / A7/W55[2]	kW	1.03/1.52	1.77/2.53	2.65/3.73
			Cooling A35/W18[1]	kW	1.14	1.90	2.77
		COP (Nominal Heating) A7/W35[1] / A7/W55[2]		W/W	4.85/2.83	4.52/2.81	4.55/3.03
		EER (Nominal Cooling) A35/W18[1]		W/W	4.39	3.95	4.33
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	175/ 125	175/ 126	185/ 138
		Seasonal space heating eff. class** LWT 35°C/ 55°C		-	A+++ / A++	A+++ / A++	A+++ / A++
		Current	MCA	A	16.00	22.00	28.00
			MFA	A	20.00	27.50	35.00
		Leaving Water Temperature[2]	Heating	°C	15~65	15~65	15~65
			Cooling	°C	5~25	5~25	5~25
	Functions	Smart Grid Ready / PV Enabled		-	•	•	•
		3-Step Quiet Mode		-	•	•	•
		2-zone Control		-	•	•	•
Outdoor Unit	Power Supply			Φ, V, Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz
	Compressor	Type		-	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Base Heater	Capacity		kW	-	0.15	0.15
	Sound	Sound Pressure[4]	Heating Std	dB(A)	45	48	50
			Cooling Std	dB(A)	45	48	50
		Sound Power	Heating Std	dB(A)	61	63	64
	Dimensions	Net Weight		kg	58.5	76.0	110.0
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330	940 x 1,420 x 330
	Piping	Water Pipe	Inlet/ Outlet	Φ, mm	25/ 25	25/ 25	25/ 25
	Refrigerant	Type			R32 (Fluorinated greenhouse gas, GWP=675)		
		Factory Charging		tCO_2e	0.68	0.78	1.49
				kg	1.00	1.15	2.20
	Operation	Ambient Temperature	Heating	°C	-25~35	-25~35	-25~35
			Cooling	°C	10~46	10~46	10~46
			DHW	°C	-25~43	-25~43	-25~43

Accessories				
				
Mono Control Kit	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor
MIM-E03CN	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA

			
AE160RXYDEG/EU MIM-E03CN	AE080RXYDGG/EU MIM-E03CN	AE120RXYDGG/EU MIM-E03CN	AE160RXYDGG/EU MIM-E03CN
16.0/15.0	8.0/7.1	12.0/11.3	16.0/15.0
14.0	7.5	12.0	14.0
3.62/5.18	1.77/2.53	2.65/3.73	3.62/5.18
3.28	1.90	2.77	3.28
4.42/2.90	4.52/2.81	4.53/3.03	4.42/2.90
4.27	3.95	4.33	4.27
176/ 138	175/ 126	185/ 138	176/ 138
A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
32.00	10.00	10.00	12.00
40.00	16.10	16.10	16.10
15~65	15~65	15~65	15~65
5~25	5~25	5~25	5~25
•	•	•	•
•	•	•	•
•	•	•	•
1Φ, 220~240 V, 50 Hz	3Φ, 380~415 V, 50 Hz	3Φ, 380~415 V, 50 Hz	3Φ, 380~415 V, 50 Hz
BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
0.15	0.15	0.15	0.15
52	48	50	52
54	48	50	54
66	63	64	66
110.0	75.0	111.0	111.0
940 x 1,420 x 330	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330
25/ 25	25/ 25	25/ 25	25/ 25
R32 (Fluorinated greenhouse gas, GWP=675)			
1.49	0.78	1.49	1.49
2.20	1.15	2.20	2.20
-25~35	-25~35	-25~35	-25~35
10~46	10~46	10~46	10~46
-25~43	-25~43	-25~43	-25~43

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[1] A2W Condition : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

[2] A2W Condition : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].

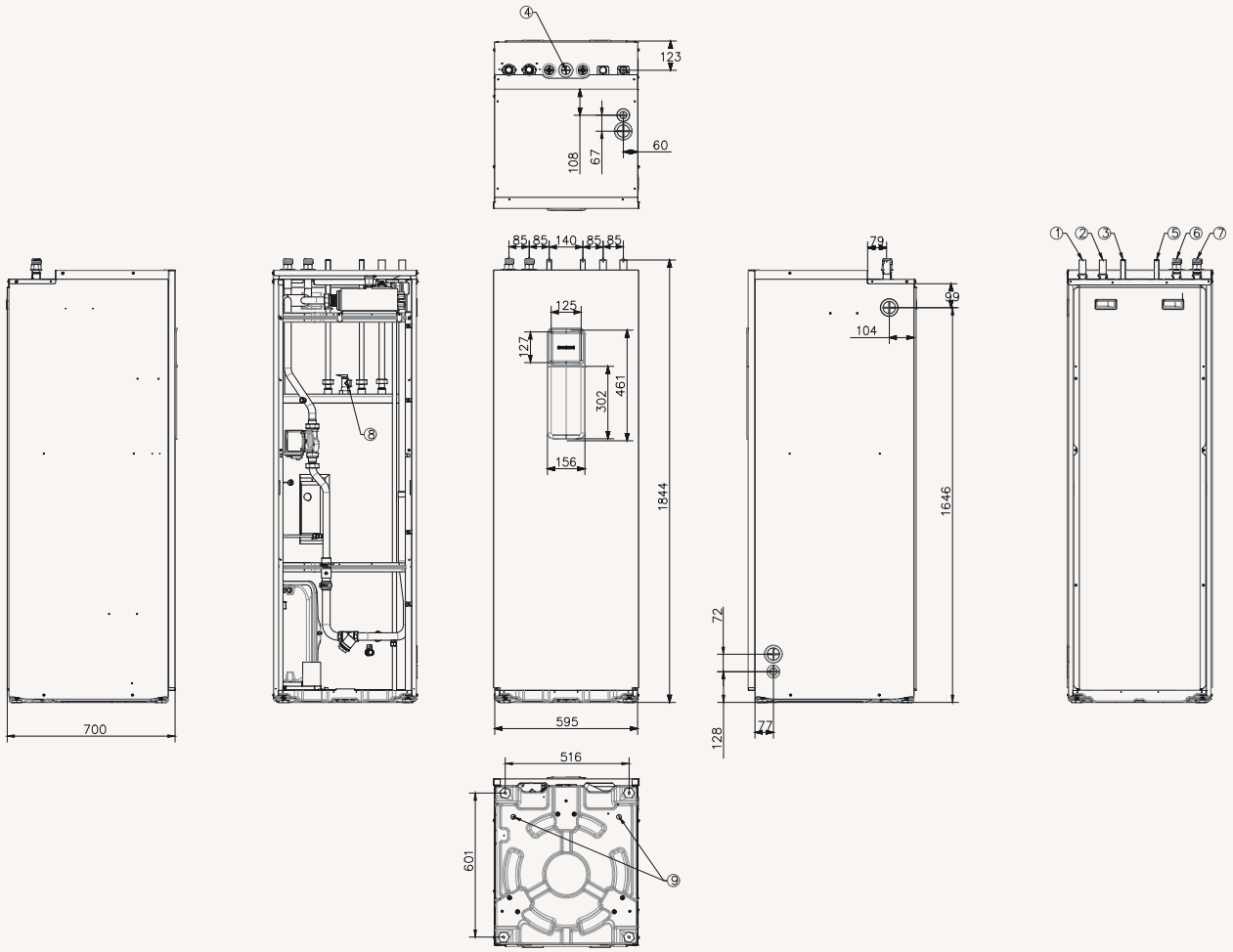
[3] 65°C down to +10°C (max. 60°C down to -5°C)

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

Dimensional Drawings

Mono Tank Integrated Hydro Unit

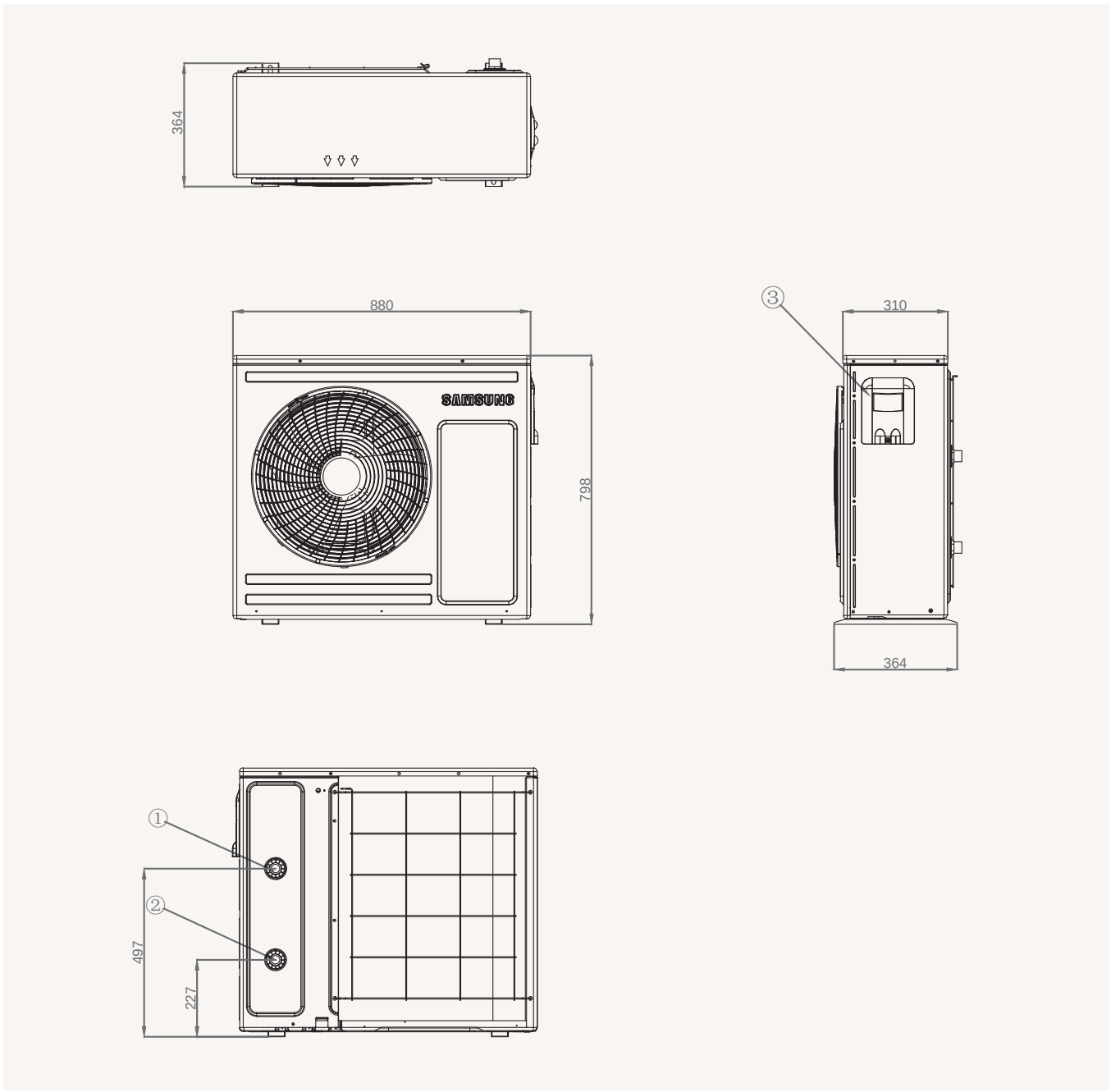
AE200/260RNW**G/EU



NO	Name	Description	
		AE200RNWMEG/EU	AE260RNWM*G/EU
1	Space heating Inlet	ø28	ø28
2	Space heating Outlet	ø28	ø28
3	DHW Inlet	ø22	ø22
4	Secondary water return	N/A	ø22
5	DHW Outlet	ø22	ø22
6	Heat Pump In	ø28	ø28
7	Heat Pump Out	ø28	ø28
8	T/P v/v	Female PT1/2"	Female PT1/2"
9	Drain Holes	(Option) Connect with the provided drain plug	

Mono Outdoor

AE050RXYDEG/EU

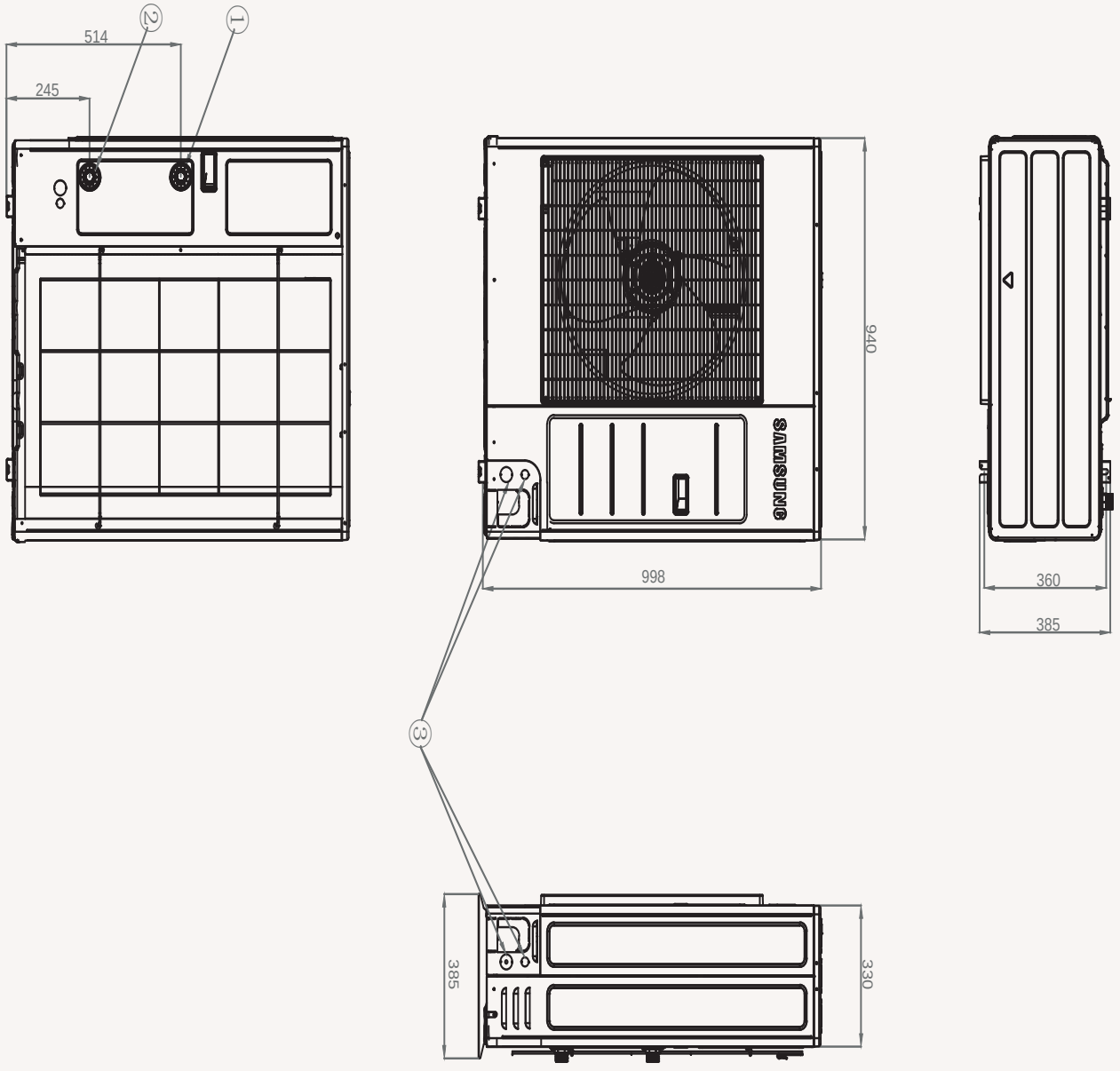


NO	Name	Description
1	Water Pipe(Out)	BSPP male 1"
2	Water Pipe(In)	BSPP male 1"
3	Power & Communication Wiring Conduit Holes	

Dimensional Drawings

Mono Outdoor

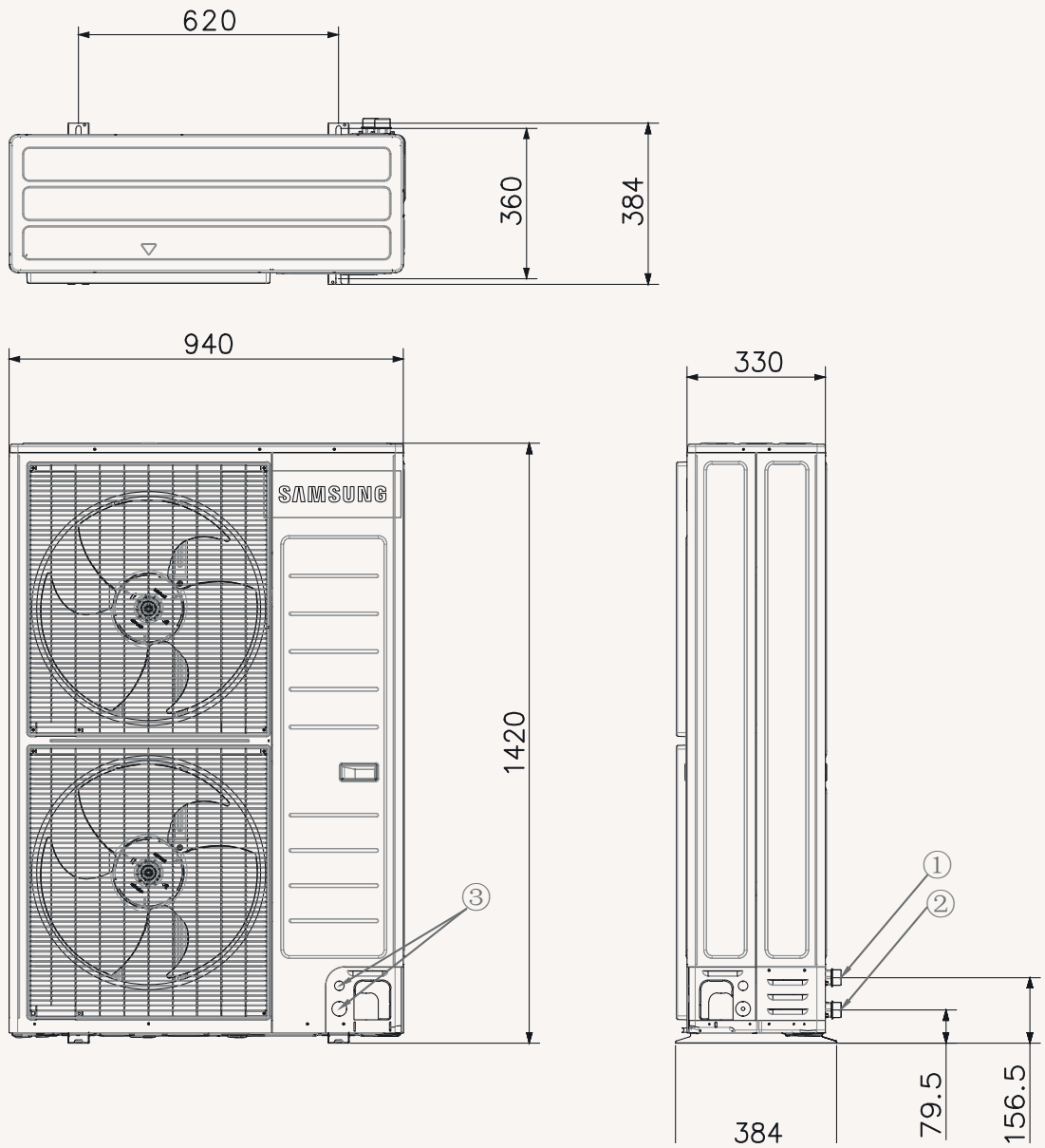
AE080RXYD*G/EU



NO	Name	Description
1	Water Pipe(Out)	BSPP male 1"
2	Water Pipe(In)	BSPP male 1"
3	Power & Communication Wiring Conduit Holes	

Mono Outdoor

AE120/160RXYD*G/EU

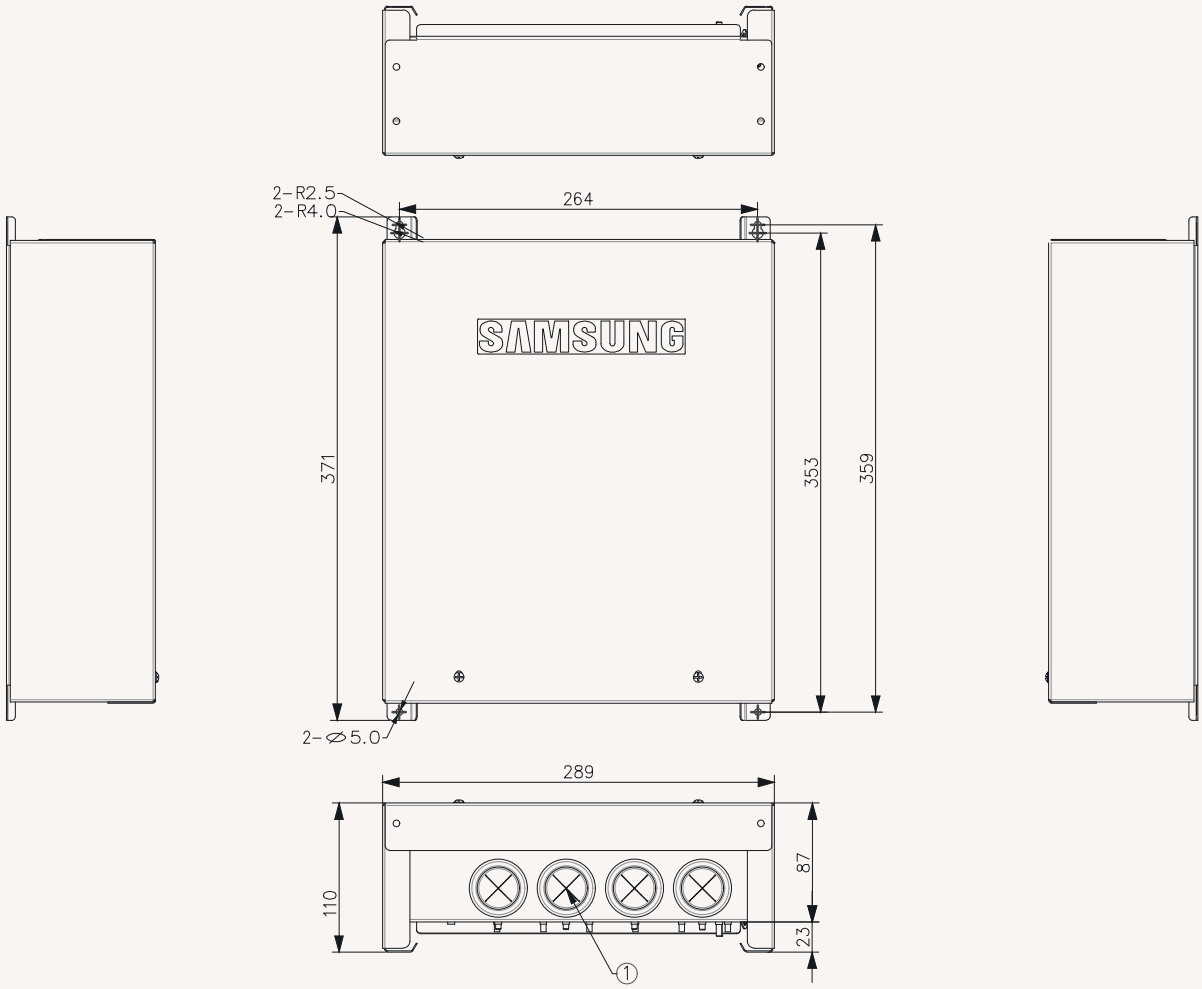


NO	Name	Description
1	Water Pipe(Out)	BSPP male 1"
2	Water Pipe(In)	BSPP male 1"
3	Power & Communication Wiring Conduit Holes	

Dimensional Drawings

Mono Control Kit

MIM-E03CN



NO	Name
1	Conduit Holes for Wiring (Rubber)

Project: Casa L (Spain)
Project Architecture: ÁBATON
Interior Design: BATAVIA
Photography: Carlos Muntadas

Split

Project: Casa L (Spain)
Project Architecture: ÁBATON
Interior Design: BATAVIA
Photography: Carlos Muntadas

Specifications

ClimateHub Split R32

- Integrated solution for heating and domestic hot water.
- 4-step quiet operation mode (down to 35 db(A)*).
- Compact unit size with large water tank (200 L & 260 L).
- Backup heater is included to ensure a minimum water temperature.




	Indoor Unit Outdoor Unit Controller				AE200RNWSEG/EU AE040RXEDEG/EU MWR-WW10N	AE200RNWSEG/EU AE060RXEDEG/EU MWR-WW10N	AE200RNWSEG/EU AE090RXEDEG/EU MWR-WW10N
System	Operation	Nominal Capacity	Heating A7/W35[1] / A7/W55[2]	kW	4.4/3.9	6.0/5.2	9.0/8.0
			Cooling A35/W18[1]	kW	5.0	6.5	8.7
		Power Input (Nominal)	Heating A7/W35[1] / A7/W55[2]	kW	0.85/1.32	1.22/1.81	1.87/2.73
			Cooling A35/W18[1]	kW	1.09	1.47	2.11
		COP (Nominal Heating) A7/W35[1] / A7/W55[2]		W/W	5.20/2.95	4.92/2.87	4.81/2.93
		EER (Nominal Cooling) A35/W18[1]		W/W	4.59	4.42	4.12
		SCOP LWT 35°C/ 55°C		W/W	4.58/3.25	4.58/3.31	4.45/3.24
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	180/ 127	180/ 129	175/ 127
		Average Seasonal space heating eff. class ** LWT 35°C/ 55°C		-	A+++ / A++	A+++ / A++	A+++ / A++
		Current	MCA	A	16.00	16.00	22.00
			MFA	A	20.00	20.00	27.50
		Leaving Water Temperature[3]	Heating	°C	15~65	15~65	15~65
			Cooling	°C	5~25	5~25	5~25
	Functions	Smart Grid Ready / PV Enabled		-	•	•	•
		4-Step Quiet Mode		-	•	•	•
		2-zone Control		-	•	•	•
Tank Integrated Hydro Unit	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
	Water Tank Volume			litres	200	200	200
	Declared Load Profile			L/XL	L	L	L
	Average water heating efficiency ηwh			ETA%	120	120	119
	Average Energy Efficiency Class				A+	A+	A+
	Heater	Back-up heater Capacity	Default (Option)	kW	2 (4/6)	2 (4/6)	2 (4/6)
	Sound	Sound Pressure[4]	Heating Std	dB(A)	26	26	26
			Cooling Std	dB(A)	26	26	26
		Sound Power	Heating Std	dB(A)	40	40	40
	Piping	Water pipe (Space Heating)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28
		Water pipe (DHW)	Inlet/Outlet	Φ, mm	22/22	22/22	22/22
	Dimensions	Net Weight		kg	136	136	136
		Net Dimensions (WxHxD)		mm	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
Outdoor Unit	Power Supply			Φ, V, Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz
	Compressor	Type		-	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Base Heater	Capacity		kW	-	-	0.15
	Sound	Sound Pressure[4]	Heating Std	dB(A)	44	47	49
			Cooling Std	dB(A)	46	47	49
			Night Mode	dB(A)	<35	35	35
		Sound Power	Heating Std	dB(A)	58	60	64
	Dimensions	Net Weight		kg	46.5	46.5	73.0
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 638 x 310	940 x 998 x 330
		Refrigerant	Type	-	R32 (Fluorinated greenhouse gas, GWP=675)		
		Factory Charging		tCO_2e	0.81	0.81	0.95
				kg	1.2	1.2	1.4
	Piping	Piping Connections	Liquid Pipe	Φ, mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
			Gas Pipe	Φ, mm (inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
		Piping length (ODU-IDU)[5]	Max.[Equiv.]	m	30.00	30.00	35.00
		Level difference (IDU-IDU)[5]	Max.	m	20.00	20.00	20.00
	Operation	Ambient Temperature	Heating	°C	-25~35	-25~35	-25~35
			Cooling	°C	10~46	10~46	10~46
			DHW	°C	-25~43	-25~43	-25~43

Accessories

					
Touch Controller	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor	Backup Heater (4/6kW)
MWR-WW10*N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA	MHC-*00FE

			
AE260RNWSEG/EU AE040RXEDEG/EU MWR-WW10N	AE260RNWSEG/EU AE060RXEDEG/EU MWR-WW10N	AE260RNWSEG/EU AE090RXEDEG/EU MWR-WW10N	AE260RNWSGG/EU AE090RXEDGG/EU MWR-WW10N
4.4/3.9	6.0/5.2	9.0/8.0	9.0/8.0
5.0	6.5	8.7	8.7
0.85/1.32	1.22/1.81	1.87/2.73	1.87/2.73
1.09	1.47	2.11	2.11
5.20/2.95	4.92/2.87	4.81/2.93	4.81/2.93
4.59	4.42	4.12	4.12
4.58/3.25	4.58/3.31	4.45/3.24	4.45/3.24
180/127	180/129	175/127	175/127
A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
16.00	16.00	22.00	10.00
20.00	20.00	27.50	16.10
15~65	15~65	15~65	15~65
5~25	5~25	5~25	5~25
•	•	•	•
•	•	•	•
•	•	•	•
1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz
260	260	260	260
XL	XL	XL	XL
123	123	123	123
A+	A+	A+	A+
2 (4/6)	2 (4/6)	2 (4/6)	6
26	26	26	26
26	26	26	26
40	40	40	40
28/28	28/28	28/28	28/28
22/22	22/22	22/22	22/22
146.0	146.0	146.0	146.0
595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	3Φ, 380~415 V, 50 Hz
BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
-	-	0.15	0.15
44	47	49	49
46	47	49	49
<35	35	35	35
58	60	64	64
46.5	46.5	73.0	72.0
880 x 638 x 310	880 x 638 x 310	940 x 998 x 330	940 x 998 x 330
R32 (Fluorinated greenhouse gas, GWP=675)			
0.81	0.81	0.95	0.95
1.2	1.2	1.4	1.4
6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
30.00	30.00	35.00	35.00
20.00	20.00	20.00	20.00
-25~35	-25~35	-25~35	-25~35
10~46	10~46	10~46	10~46
-25~43	-25~43	-25~43	-25~43

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*35dB(A) is only applicable for 6kW and 9kW outdoor units down to +4°C stated in 3 m distance in an anechoic environment.

**A+++ energy label is available according to EU No. 811/2013 label classification 2019, on a scale from D to A+++

[1] A2W Condition : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

[2] A2W Condition : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].

[3] 65°C down to +10°C (max. 60°C down to -5°C)

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

[5] ODU : Outdoor Unit, IDU : Indoor Unit

Specifications

Split with Third Party DHW Tank R32

- Connectable with R32 Split Outdoor Unit in combination of third party Tank.
- Competible with thermostats, solar panels and back-up boilers.
- Intuitive, colour screen touch controller in multiple languages.
- Energy monitoring through touch controller.
- PV and Smart Grid ready.
- 2-zone Control, suitable for floor heating and radiators.
- SmartThings compatible with optional Wi-Fi kit.
- Backup heater is included to ensure a minimum water temperature.




	Indoor Unit Outdoor Unit				AE090RNYDEG/EU AE040RXEDEG/EU	AE090RNYDEG/EU AE060RXEDEG/EU	AE090RNYDEG/EU AE090RXEDEG/EU
System	Operation	Nominal Capacity	Heating A7/W35[1] / A7/W55[2]	kW	4.4/3.9	6.0/5.2	9.0/8.0
			Cooling A35/W18[1]	kW	5.0	6.5	8.7
		Power Input (Nominal)	Heating A7/W35[1] / A7/W55[2]	kW	0.85/1.32	1.22/1.81	1.87/2.73
			Cooling A35/W18[1]	kW	1.09	1.47	2.11
		COP (Nominal Heating) A7/W35[1]		W/W	5.20/2.95	4.92/2.87	4.81/2.93
		EER (Nominal Cooling) A35/W18[1]		W/W	4.59	4.42	4.12
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	180/127	180/129	175/127
		Seasonal Space Heating Eff. Class LWT 35°C/ 55°C		-	A+++ / A++	A+++ / A++	A+++ / A++
		Current	MCA	A	16.00	16.00	22.00
			MFA	A	20.00	20.00	27.50
		Leaving Water Temperature[2]	Heating	°C	15~65	15~65	15~65
			Cooling	°C	5~25	5~25	5~25
	Functions	Smart Grid Ready / PV Enabled		-	•	•	•
		4-Step Quiet Mode		-	•	•	•
		2-zone Control		-	•	•	•
Wall-Mounted Hydro Unit	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
	Heater	Back-up heater Capacity	Default (Option)	kW	4	4	4
	Sound	Sound Pressure[3]	Heating Std	dB(A)	26	26	26
			Cooling Std	dB(A)	26	26	26
		Sound Power	Heating Std	dB(A)	40	40	40
	Dimensions	Net Weight		kg	45,0	45,0	45,0
		Net Dimensions (WxHxD)		mm	510 x 850 x 315	510 x 850 x 315	510 x 850 x 315
	Piping	Water pipe	Inlet/Outlet	Φ, inch	1+1/4"	1+1/4"	1+1/4"
Outdoor unit	Compressor	Type		-	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Base Heater	Capacity		kW	-	-	0.15
	Sound	Sound Pressure[3]	Heating Std	dB(A)	44	47	49
			Cooling Std	dB(A)	46	47	49
		Sound Power	Heating Std	dB(A)	58	60	64
	Dimensions	Net Weight		kg	46.5	46.5	73.0
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 638 x 310	940 x 998 x 330
	Refrigerant	Type			R32 (Fluorinated greenhouse gas, GWP=675)		
		Factory Charging		tCO_2e	1.2	1.2	1.4
				kg	0.81	0.81	0.95
	Piping	Piping Connections	Liquid Pipe	Φ, mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
			Gas Pipe	Φ, mm (inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
		Piping length (ODU-IDU)[4]	Max.[Equiv.]	m	30	30	35
		Level difference (IDU-IDU)[4]	Max.	m	20	20	20
		Chargeless Length		Φ, mm	15	15	15
	Operation	Ambient Temperature	Heating	°C	-25~35	-25~35	-25~35
			Cooling	°C	10~46	10~46	10~46
			DHW	°C	-25~43	-25~43	-25~43

Accessories

				
Touch Controller (included)	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor
MWR-WW10N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA

AE090RNYDGG/EU AE090RXEDGG/EU
9.0/8.0
8.7
1.87/2.73
2.11
4.81/2.93
4.12
175/127
A+++ / A++
10.00
16.10
15~65
5~25
•
•
•
3Φ, 2, 380~415 V, 50 Hz
6
26
26
40
46.5
510 x 850 x 315
1+1/4"
BLDC Twin Rotary
0.15
49
49
64
72.0
940 x 998 x 330
R32 (Fluorinated greenhouse gas, GWP=675)
1.4
0.95
6.35 (1/4")
15.88 (5/8")
35
20
15
-25~35
10~46
-25~43

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**A+++ energy label is available according to EU No. 811/2013 label classification 2019, on a scale from D to A+++

[1] A2W Condition : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

[2] A2W Condition : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].

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

[4] ODU : Outdoor Unit, IDU : Indoor Unit

Specifications

Split with Third Party DHW Tank (R410A)

- Connectable with R410A Split Outdoor Unit in combination with a third party Tank.
- Compatible with room thermostats, solar pumps, 2- or 3-way valves and back-up boilers.




	Indoor Unit / Outdoor Unit				AE160ANYDEH/EU AE120AXEDEH/EU	AE160ANYDGH/EU AE120AXEDGH/EU	AE160ANYDEH/EU AE160AXEDEH/EU
System	Operation	Nominal Capacity	Heating A7/W35[1]/ A7/W55[2]	kW	12.00/ 11.00	12.00/ 11.00	16.00/ 14.60
			Cooling A35/W18[1]	kW	12.00	12.00	15.00
		Power Input (Nominal)	Heating A7/W35	kW	2.59	2.59	3.76
			Cooling A35/W18[1]	kW	3.10	3.10	4.14
		COP (Nominal Heating) A7/W35[1] / A7/W55[2]		W/W	4.63/ 2.89	4.63/ 2.89	4.26/ 2.74
		EER (Nominal Cooling) A35/W18[1]		W/W	3.87	3.87	3.62
		SCOP LWT 35°C/ 55°C		W/W	4.59/ 3.12	4.59/ 3.12	4.46/ 3.09
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	181/ 122	181/ 122	175/ 121
		Seasonal Space Heating Eff. Class LWT 35°C/ 55°C		-	A+++ / A+	A+++ / A+	A+++ / A+
		Water flow rate	Low 35°C temp	l/min	35.0	35.0	46.0
		Current	MCA	A	28	10	32
			MFA	A	35.0	16.1	40.0
		Leaving Water Temperature	Heating	°C	15~55	15~55	15~55
			Cooling	°C	5~25	5~25	5~25
	Functions	Smart Grid Ready/PV Enabled		-	•	•	•
		3-Step Quiet Mode		-	•	•	•
		2-zone Control		-	•	•	•
Wall-Mounted Hydro Unit	Power Supply			Φ, #, V, Hz	1Φ, 2, 220~240 V, 50 Hz	3Φ, 2, 380~415 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
	Heater	Capacity		kW	6	6	6
	Sound	Sound Pressure[3]	Heating Std	dB(A)	30	30	30
			Cooling Std	dB(A)	30	30	30
		Sound Power	Heating Std	dB(A)	44	44	44
	Piping	Water pipe	Inlet/Outlet	Φ, inch	1+1/4"	1+1/4"	1+1/4"
	Dimensions	Net Weight		kg	45.0	46.5	45.0
		Net Dimensions (WxHxD)		mm	510 x 850 x 315	510 x 850 x 315	510 x 850 x 315
Outdoor unit	Compressor	Type		-	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Base Heater	Capacity		kW	0.15	0.15	0.15
	Sound	Sound Pressure[3]	Heating Std	dB(A)	50	50	52
			Cooling Std	dB(A)	50	50	54
		Sound Power	Heating Std	dB(A)	64	64	66
	Dimensions	Net Weight		kg	100.5	109.0	100.5
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330
	Refrigerant	Type			R410A (Fluorinated greenhouse gas, GWP=2,088)		
		Factory Charging		tCO_2e	6.22	6.22	6.22
				kg	2.98	2.98	2.98
	Piping	Piping Connections	Liquid Pipe	Φ, mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
			Gas Pipe	Φ, mm (inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
		Piping length (ODU-IDU)[4]	Max.[Equiv.]	m	50	50	50
		Level difference (IDU-IDU)[4]	Max.	m	30	30	30
		Chargeless Length		Φ, mm	15	15	15
	Operation	Ambient Temperature	Heating	°C	-25~35	-25~35	-25~35
			Cooling	°C	10~46	10~46	10~46
			DHW	°C	-25~43	-25~43	-25~43

Accessories

				
Touch Controller (included)	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor
MWR-WW10N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA

AE160ANYDGH/EU AE160AXEDGH/EU
16.00/ 14.60
15.00
3.76
4.14
4.26/ 2.74
3.62
4.46/ 3.09
175/ 121
A+++ / A+
46.0
12
16.1
15~55
5~25
•
•
•
3Φ, 2, 380~415 V, 50 Hz
6
30
30
44
1+1/4"
46.5
510 x 850 x 315
BLDC Twin Rotary
0.15
52
54
66
109.0
940 x 1,420 x 330
R410A (Fluorinated greenhouse gas, GWP=2,088)
6.22
2.98
9.52 (3/8")
15.88 (5/8")
50
30
15
-25~35
10~46
-25~43

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[1] A2W Condition : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

2 A2W Condition : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].

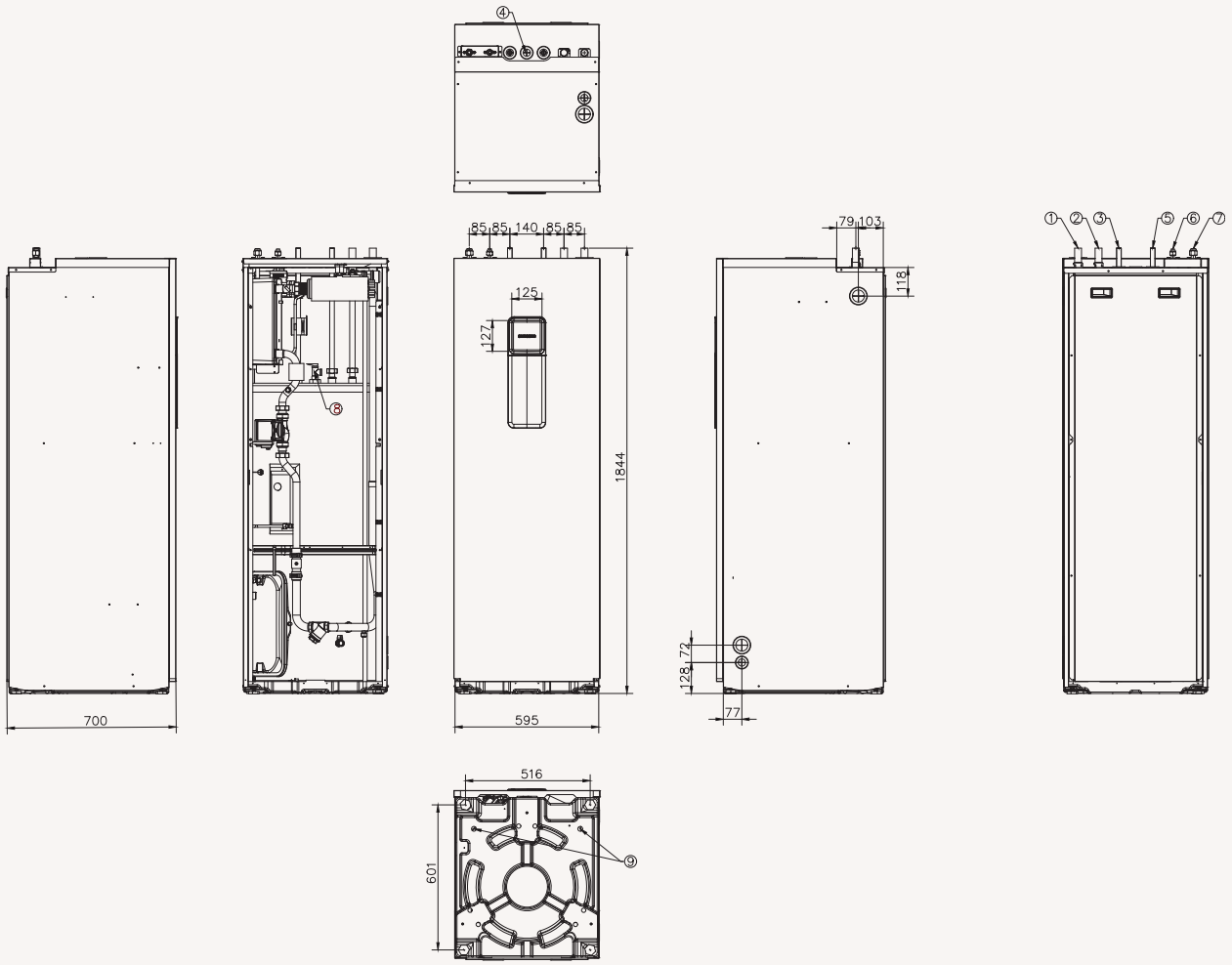
3 Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.

4 ODU: Outdoor Unit, IDU: Indoor Unit

Dimensional Drawings

Split Tank Integrated Hydro Unit

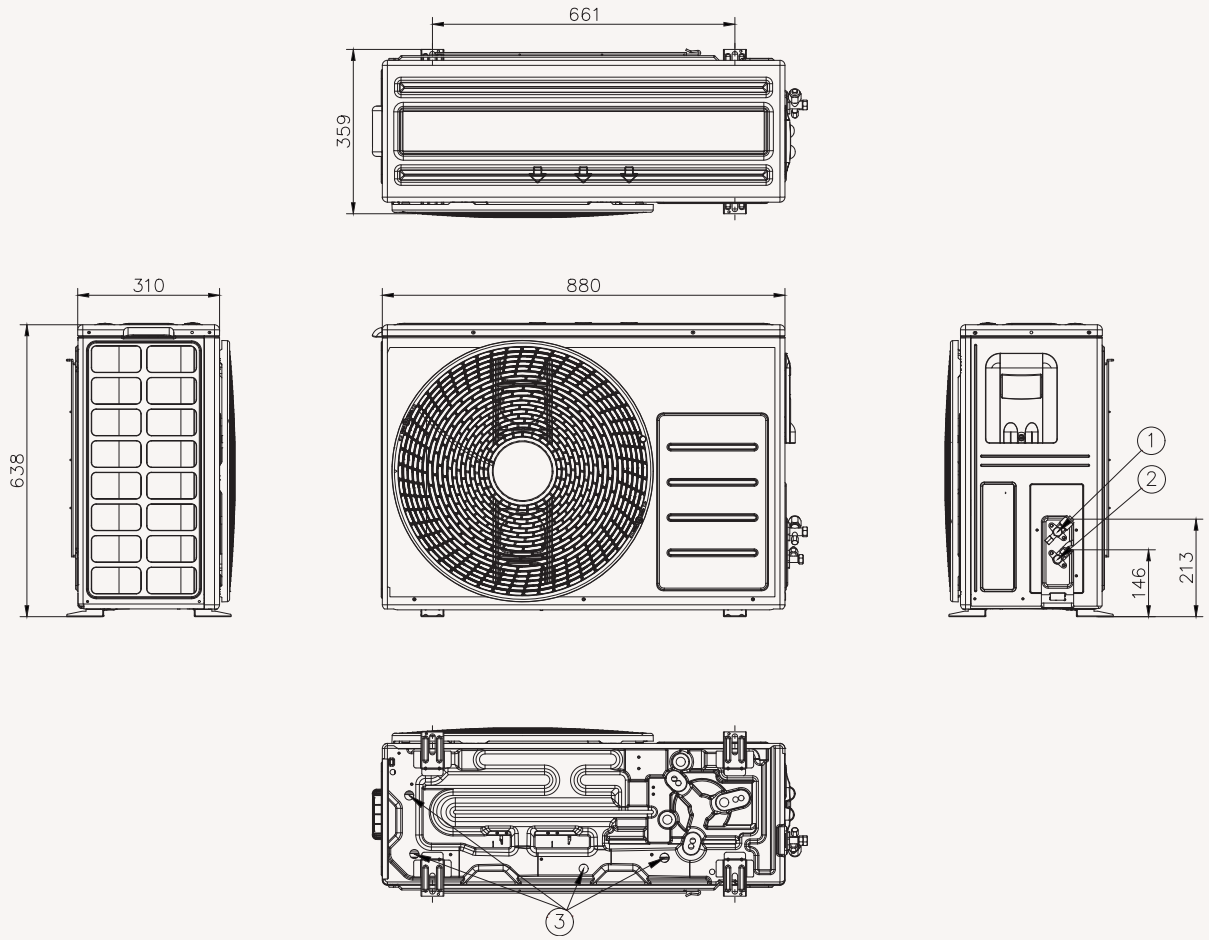
AE200/260RNW**G/EU



NO	Name	Description	
		AE200RNWSEG/EU	AE260RNWS*G/EU
1	Space heating Inlet	Ø28	Ø28
2	Space heating Outlet	Ø28	Ø28
3	DHW Inlet	Ø22	Ø22
4	Secondary water return	N/A	Ø22
5	DHW Outlet	Ø22	Ø22
6	Refrigerant liquid pipe	Ø6.35	Ø6.35
7	Refrigerant gas pipe	Ø15.88	Ø15.88
8	T/P v/v	Female PT1/2"	Female PT1/2"
9	Drain Holes	(Option) Connect with the provided drain plug	

Split Outdoor

AE040/060RXEDEG/EU

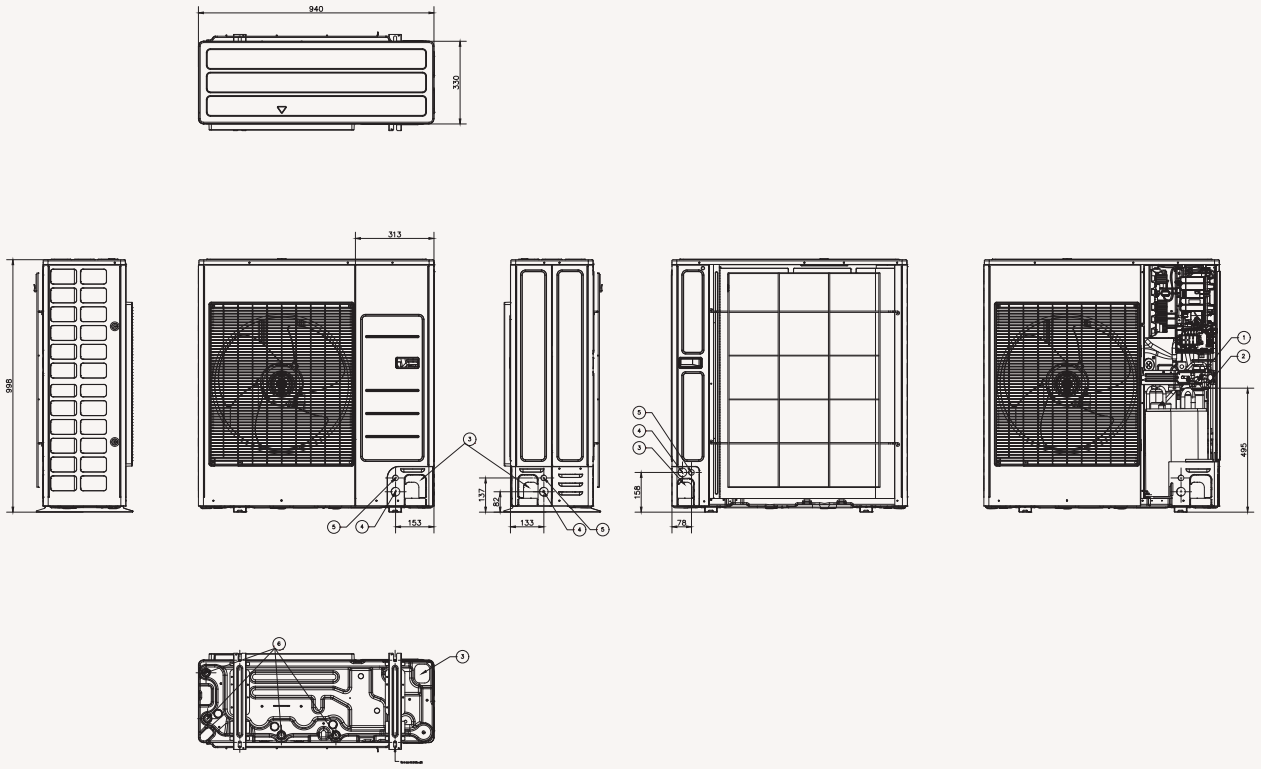


NO	Name	Description
1	Refrigerant liquid pipe	Φ6.35(1/4)
2	Refrigerant gas pipe	Φ15.88(5/8)
3	Drain holes	Connect with the provided drain plug.

Dimensional Drawings

Split Outdoor

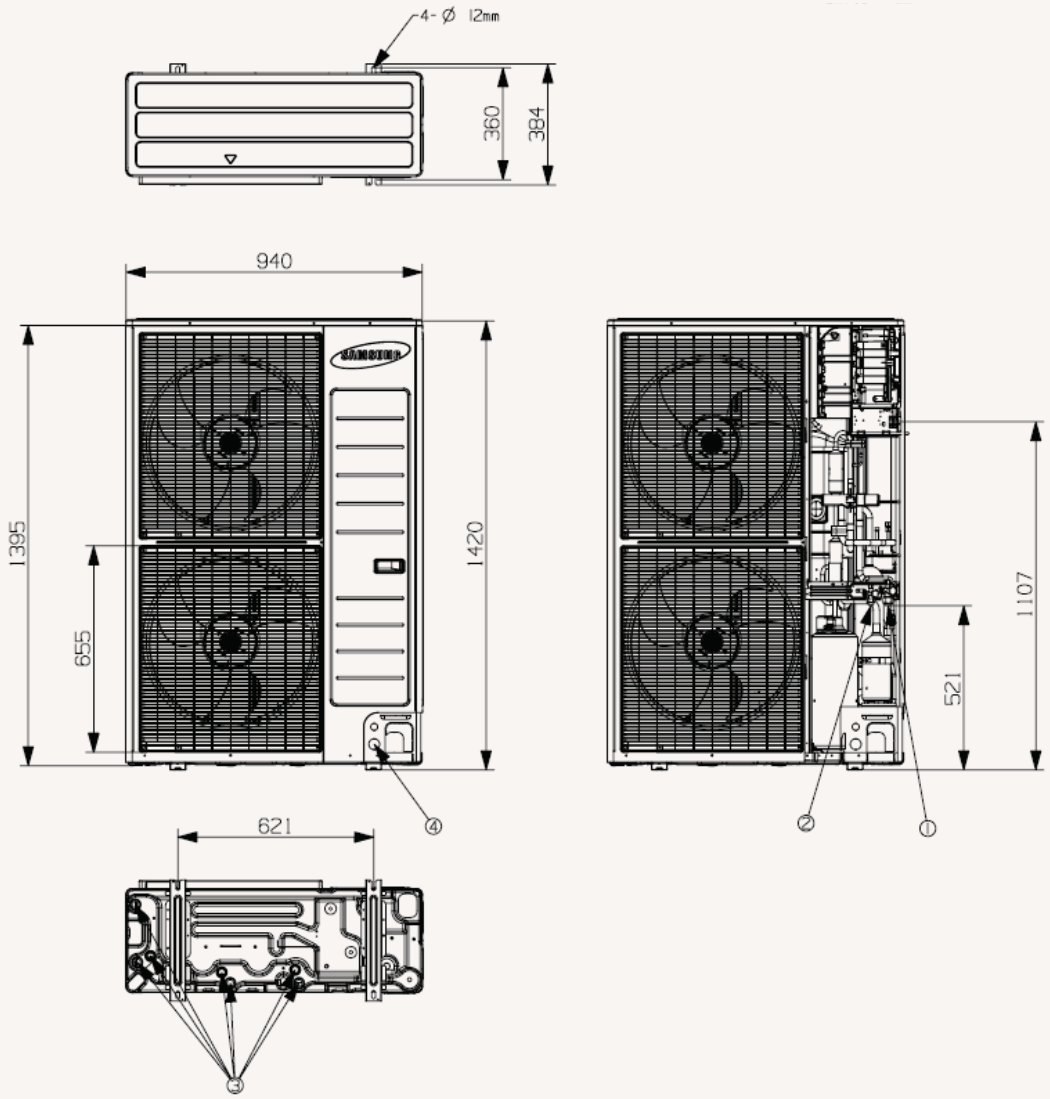
AE090RXED*G/EU



NO	Name	Description
1	Refrigerant gas pipe	Φ6.35(1/4)
2	Refrigerant liquid pipe	Φ15.88(5/8)
3	Piping intake knockout hole	Front / Side / Rear / Bottom
4	Power wiring conduit	Front / Side / Rear , Φ34 [1-3/8]
5	Communication wiring conduit	Front / Side / Rear , Φ22 [7/8]
6	Drain Hole	Connect with the provided drain plug

Split Outdoor

AE120/160AXED*H/EU

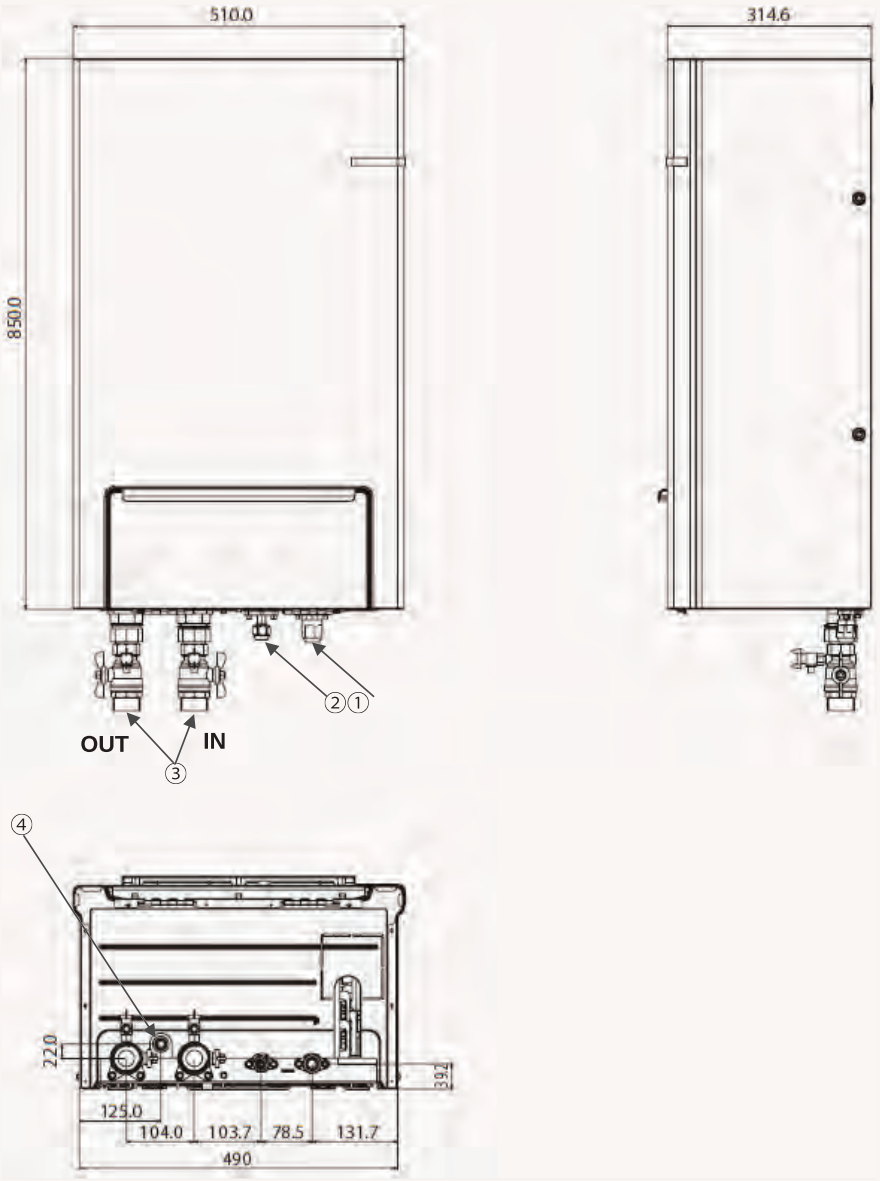


NO	Name	Description
1	Refrigerant gas pipe	ϕ15.88
2	Refrigerant liquid pipe	ϕ9.52
3	Drain Hole	Connect with the provided drain plug
4	Power wiring conduit	N/A

Dimensional Drawings

Split Wall-Mounted Hydro Unit

AE160ANYD*H/EU



NO	Name	Description
1	Refrigerant gas pipe	Ø15.88
2	Refrigerant liquid pipe	Ø9.52
3	Water pipe inlet/outlet	-
4	Drain Hose Connector	-

Project: Atico en el Retiro (Spain)
Project Architecture: ÁBATON
Interior Design: BATAVIA
Photography: Belén Imaz

TDM Plus

Specifications

ClimateHub TDM Plus (R410A)

- 'All in one' Air-to-Water and Air-to-Air system.
- PV and Smart Grid ready.
- Compact unit size with large water tank (200L & 260L).
- 2-zone control, suitable for floor heating and radiators.
- Intuitive, colour screen touch controller in multiple languages.
- SCOP rating of A+++**.
- Energy monitoring through touch controller.
- SmartThings compatible with optional Wi-Fi kit.
- Smooth servicing through the front-mounted service window.
- Backup heater is included to ensure a minimum water temperature.

	Indoor Unit Outdoor Unit Controller				AE200TNWTEH/EU AE044MXTPEH/EU MWR-WW10N	AE200TNWTEH/EU AE066MXTPEH/EU MWR-WW10N
System	Operation	Nominal Capacity	Heating A7/W35[1] / A7/W55[2]	kW	4.4/ 3.8	6.6/ 4.8
			Cooling A35/W18[1]	kW	5.1	6.7
		Power Input (Nominal)	Heating A7/W35[1] / A7/W55[2]	kW	0.93/ 1.37	1.47/ 1.85
			Cooling A35/W18[1]	kW	1.03	1.48
		COP (Nominal Heating) A7/W35[1] / A7/W55[2]		W/W	4.73/ 2.80	4.49/ 2.59
		EER (Nominal Cooling) A35/W18[1]		W/W	4.95	4.53
		SCOP LWT 35°C/ 55°C		W/W	4.41/ 2.83	4.41/ 2.96
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	173/ 110	173/ 115
		Average Seasonal space heating eff. class ** LWT 35°C/ 55°C		-	A++ / A+	A++ / A+
		Current	MCA	A	18.00	20.00
			MFA	A	25.00	25.00
		Maximum allowable IDU[5] connections (Hydro A2W unit not included)	Max. number of IDU[5]	EA	2	3
			Total capacity Min. (Cooling)	kW	2.20	3.30
			Total capacity Min. (Cooling)	kW	4.40	6.60
		Leaving Water Temperature[3]	Heating	°C	15~55	15~55
			Cooling	°C	5~25	5~25
	Functions	Smart Grid Ready / PV Enabled		-	•	•
		3-Step Quiet Mode		-	•	•
		2-zone Control		-	•	•
Tank Integrated Hydro Unit	Power Supply			Φ, #, V, Hz	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
	Water Tank Volume			litres	200	200
	Declared Load Profile			L/XL	L	L
	Average water heating efficiency ηwh			ETA%	115	115
	Average Energy Efficiency Class				A+	A+
	Heater	Back-up heater Capacity	Default (Option)	kW	2 (4/6)	2 (4/6)
	Sound	Sound Pressure[4]	Heating Std	dB(A)	29	29
			Cooling Std	dB(A)	29	29
		Sound Power	Heating Std	dB(A)	43	43
	Piping	Water pipe (Space Heating)	Inlet/Outlet	Φ, inch	1+1/4"	1+1/4"
	Dimensions	Net Weight		kg	137	137
		Net Dimensions (WxHxD)		mm	595 x 1,800 x 700	595 x 1,800 x 700
Outdoor Unit	Power Supply			Φ, V, Hz	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
	Compressor	Type		-	Rotary Comp	Rotary Comp
	Base Heater	Capacity		kW	-	-
	Sound	Sound Pressure[4]	Heating Std	dB(A)	47	48
			Cooling Std	dB(A)	46	47
		Sound Power	Heating Std	dB(A)	65	67
	Dimensions	Net Weight		kg	61.0	61.0
		Net Dimensions (WxHxD)		mm	880 x 793 x 310	880 x 793 x 310
	Refrigerant	Type		Type	R410A (Fluorinated greenhouse gas, GWP=2,088)	
		Factory Charging		tCO_2e	5.43	5.43
				kg	2.6	2.6
	Piping	Piping Connections	Liquid Pipe	Φ, mm (inch)	9.52 (3/8")	9.52 (3/8")
			Gas Pipe	Φ, mm (inch)	15.88 (5/8")	15.88 (5/8")
		Piping length (ODU-IDU)[5]	Max.[Equiv.]	m	30	30
		Level difference (IDU-IDU)[5]	Max.	m	20	20
		Chargeless length		m	10	10
	Operation	Ambient Temperature A2W	Heating	°C	-25~35	-25~35
			Cooling	°C	10~46	10~46
			DHW	°C	-25~43	-25~43
		Ambient Temperature A2A	Heating	°C	-25~24	-25~24
			Cooling	°C	10~46	10~46

Accessories

Touch Controller
MWR-WW10*N

Touch Controller
MCM-A300N

DMS2.5
MIM-D01AN

Wi-Fi Kit
MIM-H04EN

External Room Sensor
MRW-TA

Backup Heater (4/6kW)
MHC-*00FE

AE200TNWTEH/EU AE090MXTPEH/EU MWR-WW10N	AE200TNWTEH/EU AE090MXTPGH/EU MWR-WW10N	AE260TNWTEH/EU AE044MXTPEH/EU MWR-WW10N	AE260TNWTEH/EU AE066MXTPEH/EU MWR-WW10N
9.0/ 7.7	9.0/ 7.7	4.4/ 3.8	6.6/ 4.8
8.0	8.0	5.1	6.7
2.12/ 2.82	2.12/ 2.82	0.93/ 1.37	1.47/ 1.85
1.85	1.86	1.03	1.48
4.25/ 2.72	4.25/ 2.69	4.73/ 2.80	4.49/ 2.59
4.32	4.30	4.95	4.53
4.42/ 3.01	4.44/ 2.86	4.41/ 2.83	4.41/ 2.96
174/ 117	175/ 111	173/ 110	173/ 115
A++ / A+	A+++ / A+	A++ / A+	A++ / A+
22.00	10.00	18.00	20.00
27.50	16.10	25.00	25.00
4	4	2	3
4.50	4.50	2.20	3.30
9.00	9.00	4.40	6.60
15~55	15~55	15~55	15~55
5~25	5~25	5~25	5~25
•	•	•	•
•	•	•	•
•	•	•	•
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
200	200	260	260
L	L	XL	XL
115	115	105	105
A+	A+	A	A
2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)
29	29	29	29
29	29	29	29
43	43	43	43
1+1/4"	1+1/4"	1+1/4"	1+1/4"
137	137	147	147
595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
1Φ, 2, 220~240 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp
-	-	-	-
51	51	47	48
50	50	46	47
69	69	65	67
74.0	76.0	61.0	61.0
940 x 998 x 330	940 x 998 x 330	880 x 793 x 310	880 x 793 x 310
R410A (Fluorinated greenhouse gas, GWP=2,088)			
5.01	5.01	5.43	5.43
2.4	2.4	2.6	2.6
9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
30	30	30	30
20	20	20	20
10	10	10	10
-25~35	-25~35	-25~35	-25~35
10~46	10~46	10~46	10~46
-25~43	-25~43	-25~43	-25~43
-25~24	-25~24	-25~24	-25~24
10~46	10~46	10~46	10~46

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*35dB(A) is only applicable for 6kW and 9kW outdoor units down to +4°C stated in 3 m distance in an anechoic environment.

**A+++ energy label is available according to EU No. 811/2013 label classification 2019, on a scale from D to A+++

[1] A2W Condition : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

[2] A2W Condition : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].

[3] 65°C down to +10°C (max. 60°C down to -5°C)

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

[5] ODU : Outdoor Unit, IDU : Indoor Unit

Specifications

ClimateHub TDM Plus (R410A) (Continued)

	Indoor Unit Outdoor Unit Controller				AE260TNWTEH/EU AE090MXTPEH/EU MWR-WW10N	AE260TNWTEH/EU AE120MXTPEH/EU MWR-WW10N
System	Operation	Nominal Capacity	Heating A7/W35[1] / A7/W55[2]	kW	9.0/ 7.7	12.0/ 10.7
			Cooling A35/W18[1]	kW	8.0	12.0
		Power Input (Nominal)	Heating A7/W35[1] / A7/W55[2]	kW	2.12/ 2.82	2.72/ 3.91
			Cooling A35/W18[1]	kW	1.85	2.90
		COP (Nominal Heating) A7/W35[1] / A7/W55[2]		W/W	4.25/ 2.72	4.41/ 2.74
		EER (Nominal Cooling) A35/W18[1]		W/W	4.32	4.14
		SCOP LWT 35°C/ 55°C		W/W	4.42/ 3.01	4.65/ 2.92
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	174/ 117	183/114
		Average Seasonal space heating eff. class ** LWT 35°C/ 55°C		-	A++ / A+	A+++ / A+
		Current	MCA	A	22.00	28.00
			MFA	A	27.50	35.00
		Maximum allowable IDU[5] connections (Hydro A2Wunit not included)	Max. number of IDU[5]	EA	4	5
			Total capacity Min. (Cooling)	kW	4.50	6.00
			Total capacity Min. (Cooling)	kW	9.00	12.10
		Leaving Water Temperature[3]	Heating	°C	15~55	15~55
			Cooling	°C	5~25	5~25
	Functions	Smart Grid Ready / PV Enabled		-	•	•
		3-Step Quiet Mode		-	•	•
		2-zone Control		-	•	•
Tank Integrated Hydro Unit	Power Supply			Φ, #, V, Hz	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
	Water Tank Volume			litres	260	260
	Declared Load Profile			L/XL	XL	XL
	Average water heating efficiency ηwh			ETA%	105	95
	Average Energy Efficiency Class			-	A	A
	Heater	Back-up heater Capacity	Default (Option)	kW	2 (4/6)	2 (4/6)
	Sound	Sound Pressure[4]	Heating Std	dB(A)	29	29
			Cooling Std	dB(A)	29	29
		Sound Power	Heating Std	dB(A)	43	47
	Piping	Water pipe (Space Heating)	Inlet/Outlet	Φ, inch	1+1/4"	1+1/4"
	Dimensions	Net Weight		kg	147	147
		Net Dimensions (WxHxD)		mm	595 x 1,800 x 700	595 x 1,800 x 700
Outdoor Unit	Power Supply			Φ, V, Hz	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
	Compressor	Type		-	Rotary Comp	Rotary Comp
	Base Heater	Capacity		kW	-	-
	Sound	Sound Pressure[4]	Heating Std	dB(A)	51	52
			Cooling Std	dB(A)	50	51
		Sound Power	Heating Std	dB(A)	69	70
	Dimensions	Net Weight		kg	74.0	107.0
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,420 x 330
	Refrigerant	Type		Type	R410A (Fluorinated greenhouse gas, GWP=2,088)	
		Factory Charging		tCO_2e	5.01	7.31
				kg	2.4	3.5
	Piping	Piping Connections	Liquid Pipe	Φ, mm (inch)	9.52 (3/8")	9.52 (3/8")
			Gas Pipe	Φ, mm (inch)	15.88 (5/8")	15.88 (5/8")
		Piping length (ODU-IDU)[5]	Max.[Equiv.]	m	30	70
		Level difference (IDU-IDU)[5]	Max.	m	20	30
		Chargeless length		m	10	10
	Operation	Ambient Temperature A2W	Heating	°C	-25~35	-25~35
			Cooling	°C	10~46	10~46
			DHW	°C	-25~43	-25~43
		Ambient Temperature A2A	Heating	°C	-25~24	-25~24
			Cooling	°C	10~46	10~46

Accessories

Touch Controller
MWR-WW10*N

Touch Controller
MCM-A300N

DMS2.5
MIM-D01AN

Wi-Fi Kit
MIM-H04EN

External Room Sensor
MRW-TA

Backup Heater (4/6kW)
MHC-*00FE

AE260TNWTEH/EU AE160MXTPEH/EU MWR-WW10N	AE260TNWTEH/EU AE090MXTPGH/EU MWR-WW10N	AE260TNWTEH/EU AE120MXTPGH/EU MWR-WW10N	AE260TNWTEH/EU AE160MXTPGH/EU MWR-WW10N
16.0/ 14.6	9.0/ 7.7	12.0/ 10.7	16.0/ 14.6
14.5	8.0	12.0	14.5
3.95/ 5.32	2.12/ 2.82	2.72/ 3.91	3.95/ 5.32
3.84	1.86	2.90	3.84
4.05/2.74	4.25/2.69	4.41/ 2.74	4.05/2.74
3.78	4.30	4.14	3.78
4.63/3.06	4.44/2.86	4.65/2.92	4.63/ 3.06
182/ 119	175/ 111	183/ 114	182/ 119
A+++ / A+	A+++ / A+	A+++ / A+	A+++ / A+
32.00	10.00	10.00	12.00
40.00	16.10	16.10	16.10
7	4	5	7
7.70	4.50	6.00	7.70
15.40	9.00	12.10	15.40
15~55	15~55	15~55	15~55
5~25	5~25	5~25	5~25
•	•	•	•
•	•	•	•
•	•	•	•
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
260	260	260	260
XL	XL	XL	XL
95	105	95	95
A	A	A	A
2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)
29	29	29	29
29	29	29	29
47	43	47	47
1+1/4"	1+1/4"	1+1/4"	1+1/4"
147	147	147	147
595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
1Φ, 2, 220~240 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz
Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp
-	-	-	-
55	51	52	55
54	50	51	54
73	69	70	73
107.0	76.0	107.0	107.0
940 x 1,420 x 330	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330
R410A (Fluorinated greenhouse gas, GWP=2,088)			
7.31	5.01	7.31	7.31
3.5	2.4	3.5	3.5
9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
70	30	70	70
30	20	30	30
10	10	10	10
-25~35	-25~35	-25~35	-25~35
10~46	10~46	10~46	10~46
-25~43	-25~43	-25~43	-25~43
-25~24	-25~24	-25~24	-25~24
10~46	10~46	10~46	10~46

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**A+++ energy label is available according to EU No. 811/2013 label classification 2019, on a scale from D to A+++

[1] A2W Condition : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

[2] A2W Condition : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].

[3] 65°C down to +10°C (max. 60°C down to -5°C)

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

[5] ODU : Outdoor Unit, IDU : Indoor Unit

Specifications

TDM Plus with Third party tank connection (R410A)

- 'All in one' Air-to-Water and Air-to-Air system.
- Connectable with R410A Split ODU in combination of third party Tank.
- Compatible with room thermostats, solar pumps, 2- or 3-way valves and back-up boilers.
- Backup heater is recommended to ensure a minimum water temperature.





	Indoor Unit / Outdoor Unit				AE090MNYDEH/EU / AE044MXTPEH/EU	AE090MNYDEH/EU / AE066MXTPEH/EU	AE090MNYDEH/EU / AE090MXTPEH/EU	AE090MNYDGH/EU / AE090MXTPGH/EU
System	Operation	Nominal Capacity	Heating A7/W35[1] / A7/W55[2]	kW	4.4/ 3.8	6.6/ 4.8	9.0/ 7.7	9.0/ 7.7
			Cooling A35/W18[1]	kW	5.1	6.7	8.0	8.0
		Power Input (Nominal)	Heating A7/W35[1] / A7/W55[2]	kW	0.93/ 1.37	1.47/ 1.85	2.12/ 2.82	2.12/ 2.82
			Cooling A35/W18[1]	kW	1.03	1.48	1.85	1.86
		COP (Nominal Heating) A7/W35[1]		W/W	4.73/2.80	4.49/2.59	4.25/2.72	4.25/2.69
		EER (Nominal Cooling) A35/W18[1]		W/W	4.95	4.53	4.32	4.30
		SCOP LWT 35°C/ 55°C		W/W	4.41/ 2.83	4.41/2.96	4.42/ 3.01	4.44/ 2.86
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	173/ 110	173/ 115	174/ 117	175/ 111
		Seasonal Space Heating Eff. Class LWT 35°C/ 55°C			A++ / A+	A++ / A+	A++ / A+	A+++ / A+
		Current	MCA	A	18	20	22	10
			MFA	A	25.0	25.0	27.5	16.1
		Maximum Allowable IDU[6] Connections (Hydro A2W Unit Not Included)	Max. Number of IDU[6]	EA	2	3	4	4
			Total Capacity Min. (Cooling)	kW	2.2	3.3	4.5	4.5
			Total Capacity Min. (Cooling)	kW	4.4	6.6	9.0	9.0
		Leaving Water Temperature[3]	Heating	°C	15~55 (H/P : 25~55)	15~55 (H/P : 25~55)	15~55 (H/P : 25~55)	15~55 (H/P : 25~55)
			Cooling	°C	5~25	5~25	5~25	5~25
	Functions	Smart Grid Ready/ PV Enabled		-	-	-	-	-
		3-Step Quiet Mode		-	•	•	•	•
		2-zone Control[4]		-	•	•	•	•
Wall-Mounted Hydro Unit	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	3Φ, 4, 380~415 V, 50 Hz
	Expansion Vessel			litres	8	8	8	8
	Heater	Back-up heater Capacity		kW	4	4	4	6
	Sound	Sound Pressure[5]	Std	dB(A)	31	31	31	31
		Sound Power	Std	dB(A)	48	48	48	48
	Piping	Water pipe	Inlet/Outlet	Φ, inch	1+1/4"	1+1/4"	1+1/4"	1+1/4"
	Dimensions	Net Weight		kg	45.5	45.5	45.5	46.5
		Net Dimensions (WxHxD)		mm	510 x 850 x 315	510 x 850 x 315	510 x 850 x 315	510 x 850 x 315
Outdoor Unit	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	3Φ, 4, 380~415 V, 50 Hz
	Compressor	Type		-	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp
	Base Heater	Capacity		kW	-	-	-	-
	Sound	Sound Pressure[5]	Heating Std	dB(A)	47	48	51	51
			Cooling Std	dB(A)	46	47	50	50
		Sound Power	Heating Std	dB(A)	65	67	69	69
	Dimensions	Net Weight		kg	61	61	74	76
		Net Dimensions (WxHxD)		mm	880 x 793 x 310	880 x 793 x 310	940 x 998 x 330	940 x 998 x 330
	Refrigerant	Type		-	R410A (Fluorinated greenhouse gas, GWP=2,088)			
		Factory Charging		tCO_2e	5.43	5.43	5.01	5.01
				kg	2.6	2.6	2.4	2.4
	Piping	Piping Connections	Liquid Pipe	Φ, mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
			Gas Pipe	Φ, mm (inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
		Piping Length (ODU-IDU)[5]	Max.[Equiv.]	m	30	30	30	30
		Level Difference (IDU-IDU)[5]	Max.	m	20	20	20	20
		Chargeless Length		m	10	10	10	10
Operation	Ambient Temperature A2W		Heating	°C	-25~35	-25~35	-25~35	-25~35
			Cooling	°C	10~46	10~46	10~46	10~46
			DHW	°C	-25~43	-25~43	-25~43	-25~43
	Ambient Temperature A2A		Heating	°C	-25~24	-25~24	-25~24	-25~24
			Cooling	°C	10~46	10~46	10~46	10~46

Accessories

EHS Controller (included)

MWR-WW00N

Touch Controller

MCM-A300N

DMS2.5

MIM-D01AN

Wi-Fi Kit

MIM-H04EN

External Room Sensor

MRW-TA

AE160MNYDEH/EU AE120MXTPEH/EU	AE160MNYDGH/EU AE120MXTPGH/EU	AE160MNYDEH/EU AE160MXTPEH/EU	AE160MNYDGH/EU AE160MXTPGH/EU
12.0/ 10.7	12.0/ 10.7	16.0/ 14.6	16.0/ 14.6
12.0	12.0	14.5	14.5
2.72/ 3.91	2.72/ 3.91	3.95/ 5.32	3.95/ 5.32
2.90	2.90	3.84	3.84
4.41/2.74	4.41/2.74	4.05/2.74	4.05/2.74
4.14	4.14	3.78	3.78
4.65/ 2.92	4.65/ 2.92	4.63/ 3.06	4.63/ 3.06
183/ 114	183/ 114	182/ 119	182/ 119
A+++ / A+	A+++ / A+	A+++ / A+	A+++ / A+
28	10	32	12
35.0	16.1	40.0	16.1
5	5	7	7
6.0	6.0	7.7	7.7
12.1	12.1	15.4	15.4
15~55 (H/P : 25~55)	15~55 (H/P : 25~55)	15~55 (H/P : 25~55)	15~55 (H/P : 25~55)
5~25	5~25	5~25	5~25
-	-	-	-
•	•	•	•
•	•	•	•
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
8	8	8	8
6	6	6	6
38	38	38	38
55	55	55	55
1+1/4"	1+1/4"	1+1/4"	1+1/4"
46.5	46.5	46.5	46.5
510 x 850 x 315	510 x 850 x 315	510 x 850 x 315	510 x 850 x 315
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
Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp
-	-	-	-
52	52	55	55
51	51	54	54
70	70	73	73
107	107	107	107
940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330
R410A (Fluorinated greenhouse gas, GWP=2,088)			
7.31	7.31	7.31	7.31
3.5	3.5	3.5	3.5
9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
70	70	70	70
30	30	30	30
10	10	10	10
-25~35	-25~35	-25~35	-25~35
10~46	10~46	10~46	10~46
-25~43	-25~43	-25~43	-25~43
-25~24	-25~24	-25~24	-25~24
10~46	10~46	10~46	10~46

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**A+++ energy label is available according to EU No. 811/2013 label classification 2019, on a scale from D to A+++

[1] A2W Condition : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C[DB]/6°C[WB]; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°C[DB].

[2] A2W Condition : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].

[3] 65°C down to +10°C (max. 60°C down to -5°C)

[4] Not provided by Samsung.

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

[6] ODU : Outdoor Unit, IDU : Indoor Unit

Specifications

TDM Plus WindFree™ Deluxe

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

Type Model Name			TDM Plus WindFree™ Deluxe AE022TNXDEH/EU	TDM Plus WindFree™ Deluxe AE028TNXDEH/EU	TDM Plus WindFree™ Deluxe AE036TNXDEH/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
Capacity	Cooling	kW	2.20	2.80	3.60
	Heating	kW	2.50	3.20	4.00
Power Input (Nominal)	Cooling	W	24.0	30.0	37.0
	Heating	W	24.0	30.0	37.0
Current Input (Nominal)	Cooling	A	0.16	0.20	0.25
	Heating	A	0.16	0.20	0.25
Fan	Type	-	Cross flow Fan	Cross flow Fan	Cross flow Fan
	Quantity	EA	1	1	1
	Air Flow Rate H/M/L	m³/min	5.7/5.0/4.5	8.5/7.7/6.9	10.3/9.1/8.3
		l/s	95.0/83.3/75.0	141.7/128.3/115.0	171.7/151.7/138.3
Fan motor	Type	-	BLDC	BLDC	BLDC
	Output xn	W	27x1	27x1	27x1
Piping Connections	Liquid Pipe	Φ, mm(inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
	Gas Pipe	Φ, mm(inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
Wiring connections	For power supply below 20m/over 20m (min)	mm²	1.5/2.5	1.5/2.5	1.5/2.5
	Communication (min)	mm²	0.75	0.75	0.75
Refrigerant	Type	-	R410A (Fluorinated greenhouse gas, GWP=2,088)		
	Control Method [1]	-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure H/M/L/WF [2]	dB(A)	34/32/30/27	34/33/32/26	40/36/34/26
	Sound Power	dB(A)	51	52	56
Dimensions	Net Weight	kg	8.50	9.00	9.00
	Net Dimensions (WxHxD)	mm	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215
Functions					
Air Flow	WindFree™ Cooling		•	•	•
	Air Direction Control (Up/Down)		Auto	Auto	Auto
	Air Direction Control (Left/Right)		Auto	Auto	Auto
Air Purification	Auto Fan speed		•	•	•
	Tri-Care Filter		-	-	-
	Easy Filter Plus		•	•	•
	Auto Clean (Self Cleaning)		•	•	•
Operating Mode	2 Step Cooling		•	•	•
	AI Auto Comfort with Wi-Fi & MDS (direct/indirect)		-	-	-
	AI Auto Comfort with Wi-Fi		-	-	-
	Auto Mode (without Wi-Fi)		-	-	-
	Fast Cooling		•	•	•
	Good Sleep		•	•	•
	Eco		•	•	•
	Dehumidification		•	•	•
	Fan		•	•	•
	Quiet		•	•	•
Other Functions	Samsung SmartThings		•	•	•
	MDS (Motion Detect Sensor)		-	-	-
	Indoor Temp. Display		•	•	•
	Display On/Off	88 Display	•	•	•
	Beep On/Off		•	•	•
	Auto Changeover		•	•	•
	Auto Restart		•	•	•

Accessories

1-room EEV Kit	2/3 Room EEV Kit	Wireless Remote Controller (included)	Touch Controller	DMS2.5	Wi-Fi Kit
MEV-E**SA	MXD-E**K***A	AR-EH03E	MWR-SH11N	MIM-D01AN	MIM-H04EN

TDM Plus WindFree™ Deluxe AE056TNXDEH/EU	TDM Plus WindFree™ Deluxe AE071TNXDEH/EU
1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
5.60	6.80
6.30	7.00
52.0	60.0
52.0	60.0
0.35	0.40
0.35	0.40
Cross flow Fan	Cross flow Fan
1	1
15.7/13.8/12.0	16.8/15.0/13.2
261.7/230.0/200.0	280.0/250.0/220.0
BLDC	BLDC
27x1	27x1
6.35 (1/4")	9.52 (3/8")
12.7 (1/2")	15.88 (5/8")
1.5/2.5	1.5/2.5
0.75	0.75
R410A (Fluorinated greenhouse gas, GWP=2,088)	
EEV NOT INCLUDED	EEV NOT INCLUDED
40/37/34/29	43/40/37/29
58	62
11.50	11.50
1,055 x 299 x 215	1,055 x 299 x 215
•	•
Auto	Auto
Auto	Auto
•	•
-	-
•	•
•	•
•	•
-	-
-	-
-	-
•	•
•	•
•	•
•	•
•	•
•	•
•	•
-	-
•	•
•	•
•	•
•	•
•	•

Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m)

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

[1] EEV Kit is necessary to control the refrigerant flow in the TDM Plus WindFree™ Deluxe (EEV Excluded), please order EEV Kit separately.

[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 depending on operation conditions.

Specifications

TDM Plus Slim Duct

- Slim design with thickness of just 199 mm.
- Antibacterial filter included.

Type / Model Name				Slim Duct AE022MNLDEH/EU	Slim Duct AE028MNLDEH/EU	Slim Duct AE036MNLDEH/EU	Slim Duct AE056MNLDEH/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	Cooling / Heating	kW	2.2/2.5	2.8/3.2	3.6/4.0	5.6/6.3
Power	Power Input	Cooling / Heating	W	55/55	60/60	65/65	95/95
	Current Input	Cooling / Heating	A	0.30/0.30	0.32/0.32	0.33/0.33	0.53/0.53
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	2	2	2	2
	Air Flow Rate	H/M/L (UL)	m³/min	7.0 / 6.1 / 5.3	7.5 / 6.6 / 5.6	7.5 / 6.6 / 5.6	12.0 / 10.5 / 9.0
	External Pressure	Max. (Min/ Std/Max)	mmAq	0/1/3	0/1/3	0/1/3	0/2/4
			Pa	0/9.8/29.4	0/9.8/29.4	0/9.8/29.4	0/19.6/39.2
Fan Motor	Type		-	SSR non-feedback	SSR non-feedback	SSR non-feedback	SSR non-feedback
	Output x n		W	28x1	28x1	28x1	28x1
Piping Connections	Liquid Pipe		Φ, mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
	Gas Pipe		Φ, mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
Refrigerant	Type		-	R410A (Fluorinated greenhouse gas, GWP=2,088)			
Sound	Sound Pressure	H/M/L	dB(A)	26 / 24 / 21	28 / 26 / 23	32 / 30 / 27	36 / 34 / 31
	Sound Power		dB(A)	49	49	51	55
Dimensions	Net Weight		kg	19	19	19,5	24,5
	Net Dimensions (W×H×D)		mm	700 x 199 x 600	700 x 199 x 600	700 x 199 x 600	900x199x600
Optional Accessories	Drain Pump	Model	-	MDP-E075SEE3D (Built-in)	MDP-E075SEE3D (Built-in)	MDP-E075SEE3D (Built-in)	MDP-E075SEE3D (Built-in)
		Max. lifting Height/ Displace-ment	mm / Litre/h	750 / 24	750 / 24	750 / 24	750 / 24

Accessories

Drain Pump (Built-in)

MDP-E075SEE3D

Remote Control

AR-EH00

Touch Controller

MWR-SH11N

Wireless Receiver Kit

MRK-A10N

Touch Controller

MCM-A300N

DMS2.5

MIM-D01AN

Wi-Fi Kit

MIM-H04EN

External Room Sensor

MRW-TA

Y-joint

MXJ-YA1509M

Specifications

TDM Plus MSP Duct

- External statuc pressure range from 0 to 1.4 mmAq.
- Built-in electronic expansion valve (EEV) for refrigerant flow control (2000 step).
- Long-life washable permanent filter is included.
- Auto Restart function.
- Built-in condensation drain pump (750 mmH2O).
- SPi Ioniser device (optional).


Type / Model Name				MSP Duct AE071MNMPEH/EU	MSP Duct AE090MNMPEH/EU
Power Supply			Φ, #, V, Hz	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
Performance	Capacity	Cooling / Heating	kW	7.1/8.0	9.0/10.0
Power	Power Input	Cooling / Heating	W	120/120	145/145
	Current Input	Cooling / Heating	A	1.0/1.0	1.2/1.2
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Quantity		EA	2	2
	Air Flow Rate	H/M/L (UL)	m^3/min	22 / 19 / 16	29 / 25 / 22
	External Pressure	Max. (Min/ Std/Max)	mmAq	0 / 3 / 15	0 / 4 / 15
			Pa	0 / 29.4 / 147.2	0 / 29.4 / 147.2
Fan Motor	Type		-	BLDC Feedback	BLDC Feedback
	Output x n		W	153x1	153x1
Piping Connections	Liquid Pipe		Φ, mm (inch)	9.52 (3/8")	9.52 (3/8")
	Gas Pipe		Φ, mm (inch)	15.88 (5/8")	15.88 (5/8")
Refrigerant	Type		-	R410A (Fluorinated greenhouse gas, GWP=2,088)	
Sound	Sound Pressure	H/M/L	dB(A)	37 / 33 / 29	38 / 35 / 32
	Sound Power		dB(A)	57	58
Dimensions	Net Weight		kg	25,5	33
	Net Dimensions (W×H×D)		mm	850x250x700	1,200x250x700
Optional Accessories	Drain Pump	Model	-	MDP-G075SQ (Built-in)	MDP-G075SQ (Built-in)
				MDP-G075SP (External)	MDP-G075SP (External)
		Max. lifting Height/ Displacement	mm / Litre/h	750 / 24	750 / 24

Accessories






Drain Pump (Built-in)	External Drain Pump	Remote Control	Touch Controller	SPi kit	Touch Controller
MDP-G075SQ	MDP-G075SP	AR-EH00	MWR-SH11N	MSD-EAN1	MCM-A300N





DMS2.5	Wi-Fi Kit	External Room Sensor	Wireless Receiver Kit	Y-joint
MIM-D01AN	MIM-H04EN	MRW-TA	MRK-A10N	MXJ-YA1509M

Specifications

TDM Plus Console

- SPi Ioniser device (included).
- Slim design with 199mm in depth.
- Built-in electronic expansion valve (EEV) for refrigerant flow control (2,000 step).
- Long-life washable permanent filter.
- Auto Restart function.
- Two separate air outlets, upper (cooling) and bottom (heating) to avoid stratifications.




Type / Model Name				Console AE022MNJDEH/EU	Console AE028MNJDEH/ EU	Console AE036MNJDEH/ EU	Console AE056MNJDEH/ 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	Cooling / Heating	kW	2.2/2.5	2.8/3.2	3.6/4.0	5.6/6.3
Power	Power Input	Cooling / Heating	W	16/16	30/30	35/35	62/62
	Current Input	Cooling / Heating	A	0.13/0.13	0.25/0.25	0.29/0.29	0.49/0.49
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		EA	1	1	1	1
	Air Flow Rate	H/M/L (UL)	m³/min	6.3 / 5.4 / 4.9	7.0 / 6.0 / 5.0	8.50 / 7.50 / 6.50	13.0 / 11.5 / 10.0
Piping Connections	Liquid Pipe		Φ, mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
	Gas Pipe		Φ, mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
Refrigerant	Type		-	R410A (Fluorinated greenhouse gas, GWP=2,088)			
Sound	Sound Pressure	H/M/L	dB(A)	34 / 32 / 30	38 / 36 / 34	39 / 37 / 34	43 / 40 / 37
	Sound Power		dB(A)	52	58	59	64
Dimensions	Net Weight		kg	15,5	16	16	16
	Net Dimensions (W×H×D)		mm	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199

Accessories





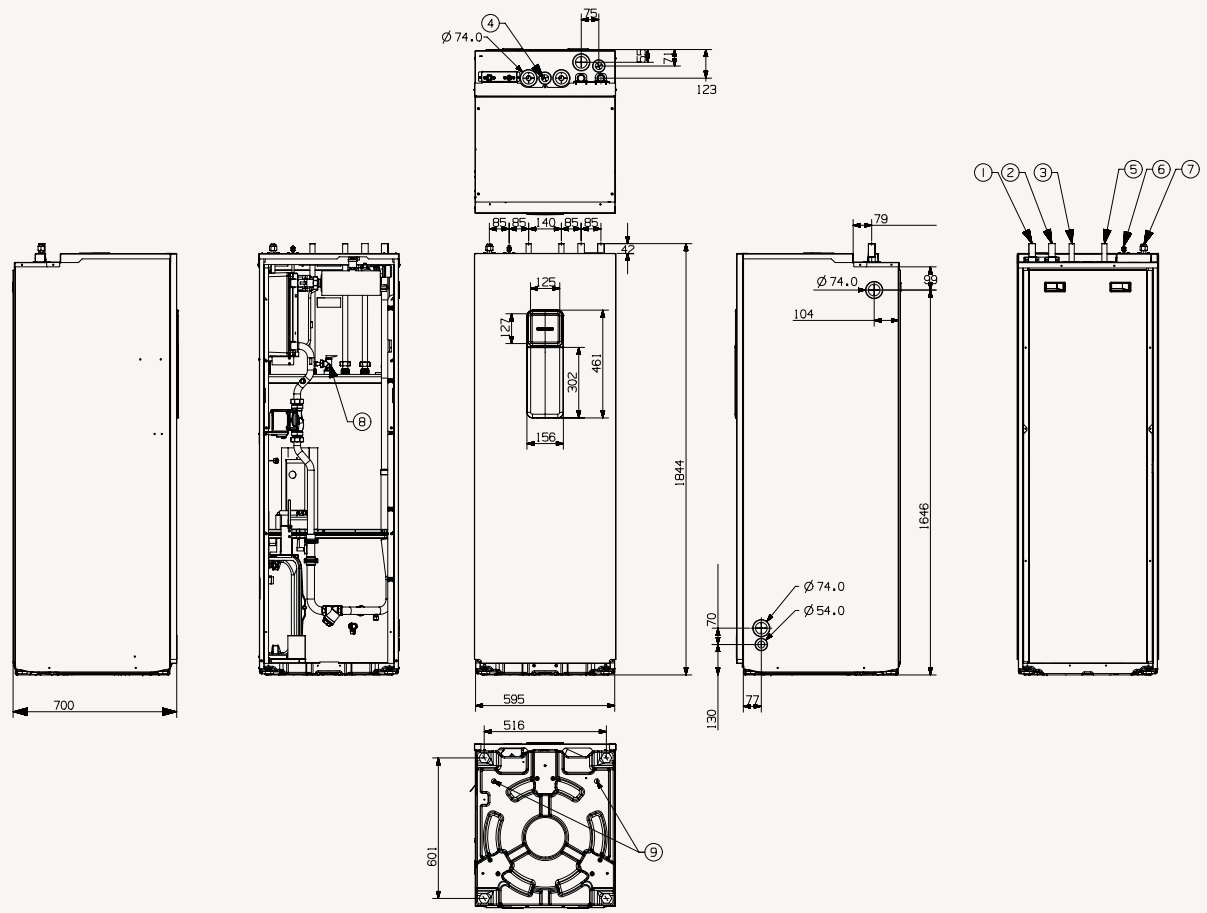
Touch Controller	Remote Control (Included)	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor	Y-joint
MWR-SH11N	MR-EH00	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA	MXJ-YA1509M


follow

Dimensional Drawings

TDM Plus Tank Integrated Hydro Unit

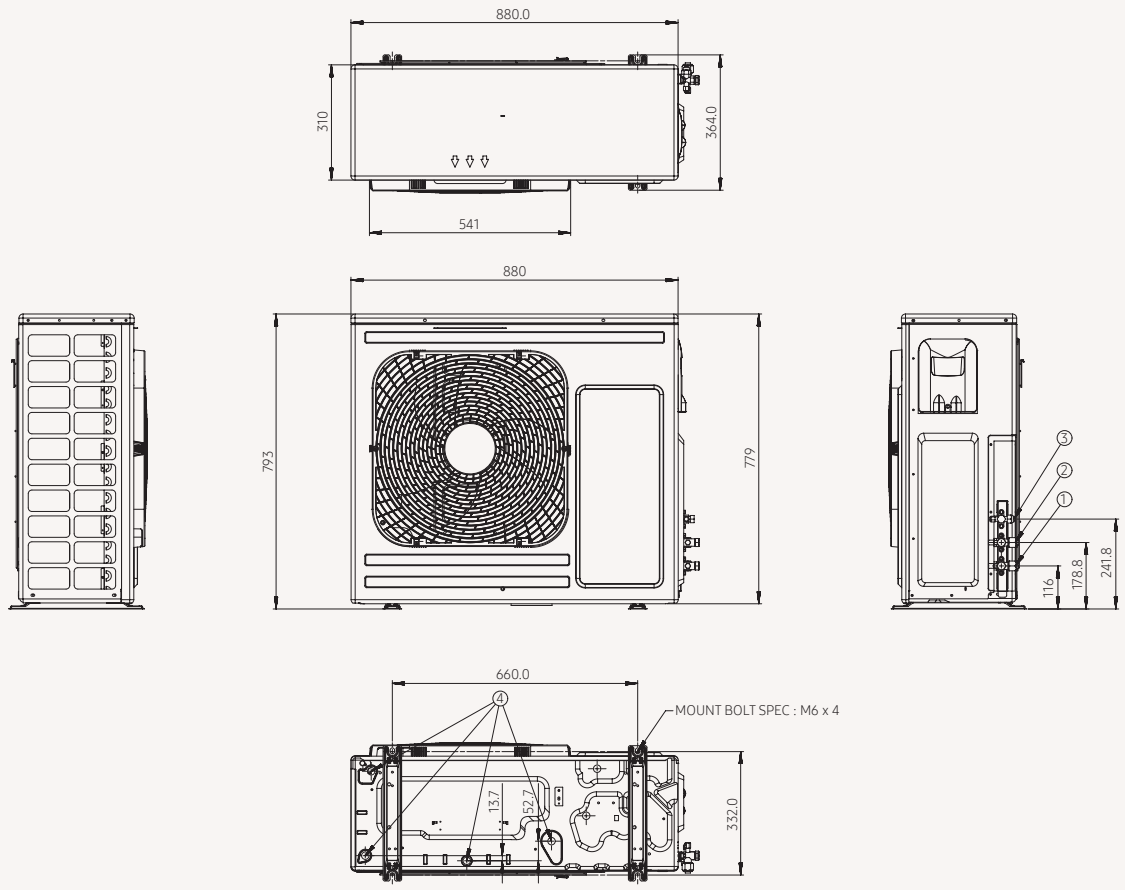
AE200TNWTEH/EU, AE260TNWTEH/EU



NO	Name	Description	
		AE200TNWTEH/EU	AE260TNWTEH/EU
1	Space heating Inlet	Ø28	Ø28
2	Space heating Outlet	Ø28	Ø28
3	DHW Inlet	Ø22	Ø22
4	Secondary water return	N/A	Ø22
5	DHW Outlet	Ø22	Ø22
6	Refrigerant liquid pipe	Ø6.35	Ø6.35
7	Refrigerant Gas pipe	Ø15.88	Ø15.88
8	T/Pv/v	Female PT1/2"	Female PT1/2"
9	Drain Holes	(Option) Connect with the provided drain plug	

TDM Plus Outdoor

AE044/066MXTPEH/EU

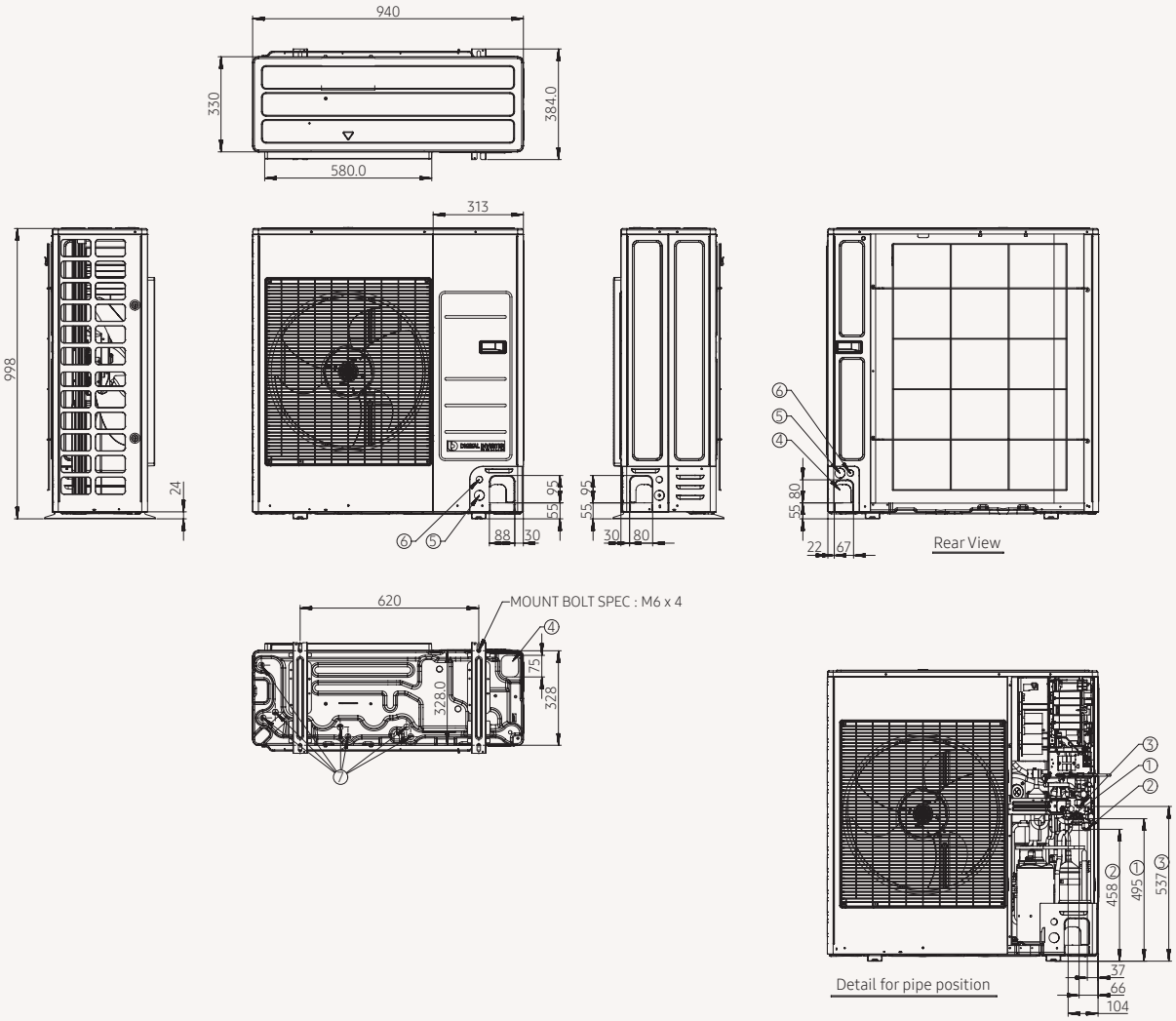


NO	Name	Description	
		4.4 kW	6.6 kW
1	Refrigerant gas pipe for air	Φ15.88("5/8)	
2	Refrigerant gas pipe for water	Φ15.88("5/8)	
3	Refrigerant liquid pipe	Φ9.52("3/8)	
4	Drain holes	Connect with the provided drain plug.	

Dimensional Drawings

TDM Plus Outdoor

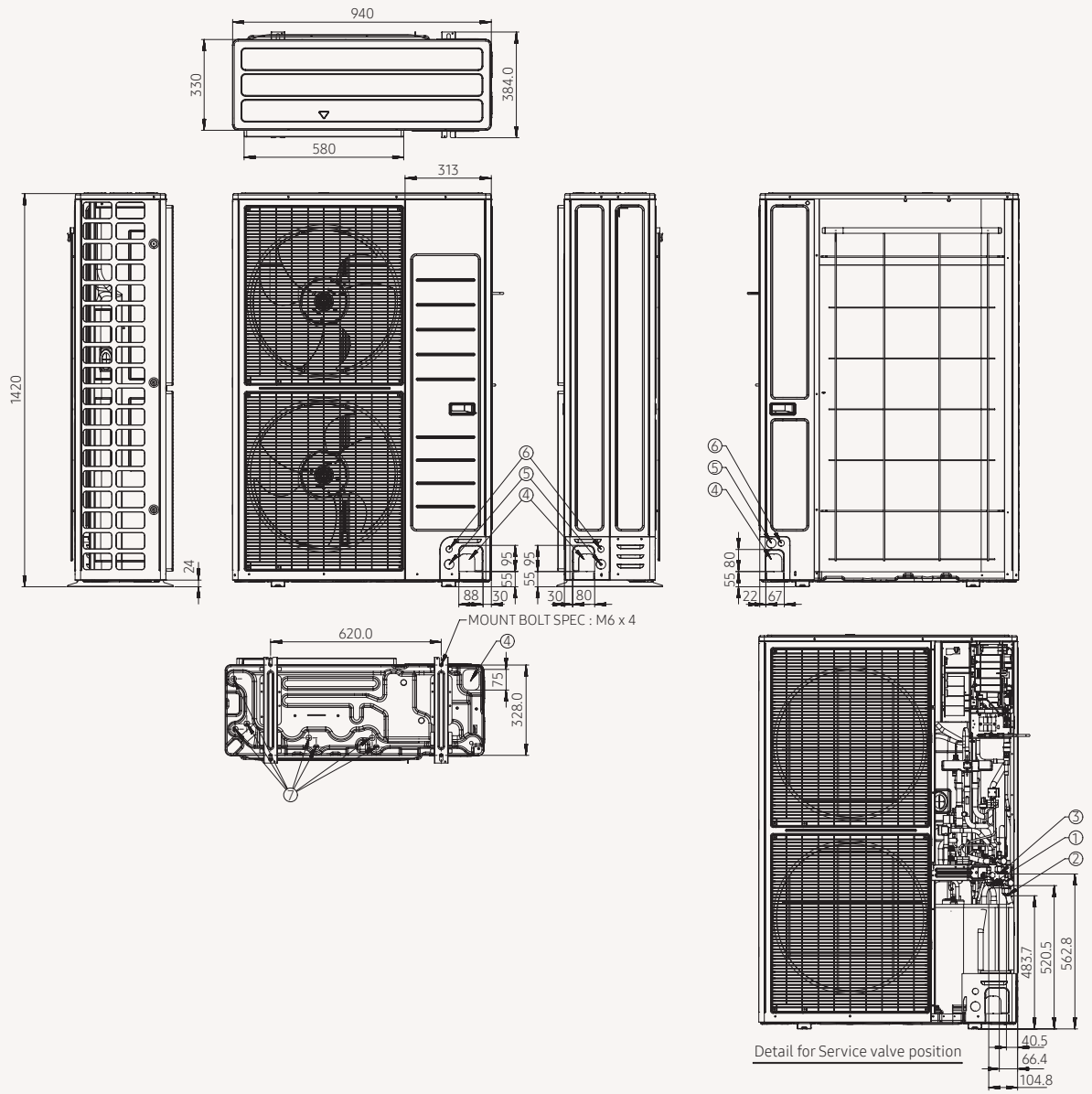
AE090MXTP*H/EU



NO	Name	Description
		9 kW
1	Refrigerant liquid pipe	Φ9.52("3/8)
2	Refrigerant gas pipe for air	Φ15.88("5/8)
3	Refrigerant gas pipe for water	Φ15.88("5/8)
4	Knockout hole for pipe intake	Front / Side / Rear / Bottom
5	Power wiring conduits	Front / Side / Rear, Φ34("1-3/8)
6	Communication wiring conduits	Front / Side / Rear, Φ22("7/8)
7	Drain holes	Connect with the provided drain plug.

TDM Plus Outdoor

AE120/160MXTP*H/EU

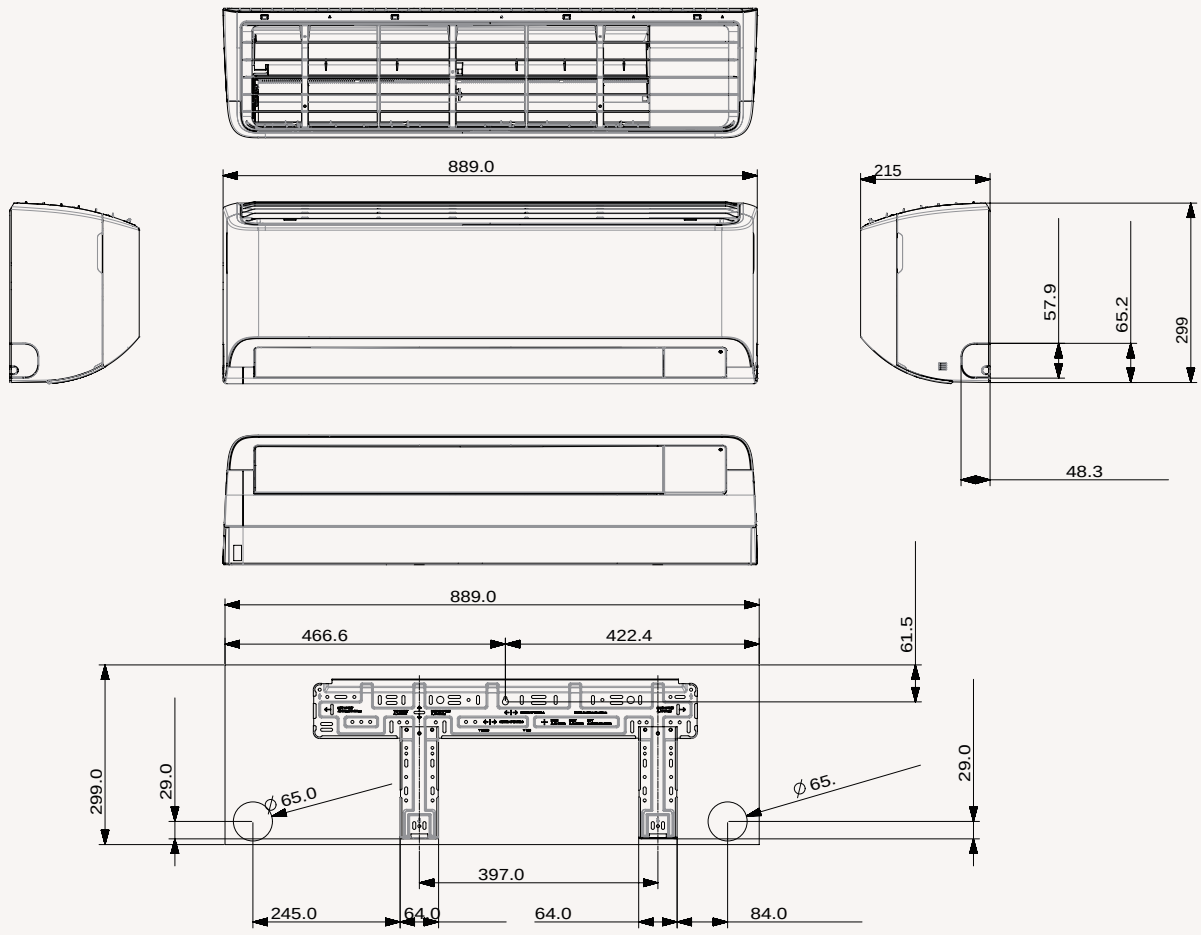


NO	Name	Description	
		12 kW	16 kW
1	Refrigerant liquid pipe	Φ9.52("3/8")	
2	Refrigerant gas pipe for air	Φ15.88("5/8)	Φ15.88("5/8)
3	Refrigerant gas pipe for water	Φ15.88("5/8)	Φ15.88("5/8)
4	Knockout hole for pipe intake	Front / Side / Rear / Bottom	Front / Side / Rear / Bottom
5	Power wiring conduits	Front / Side / Rear, Φ34("1-3/8)	Front / Side / Rear, Φ34("1-3/8)
6	Communication wiring conduits	Front / Side / Rear, Φ22("7/8)	Front / Side / Rear, Φ22("7/8)
7	Drain holes	Connect with the provided drain plug.	Connect with the provided drain plug.

Dimensional Drawings

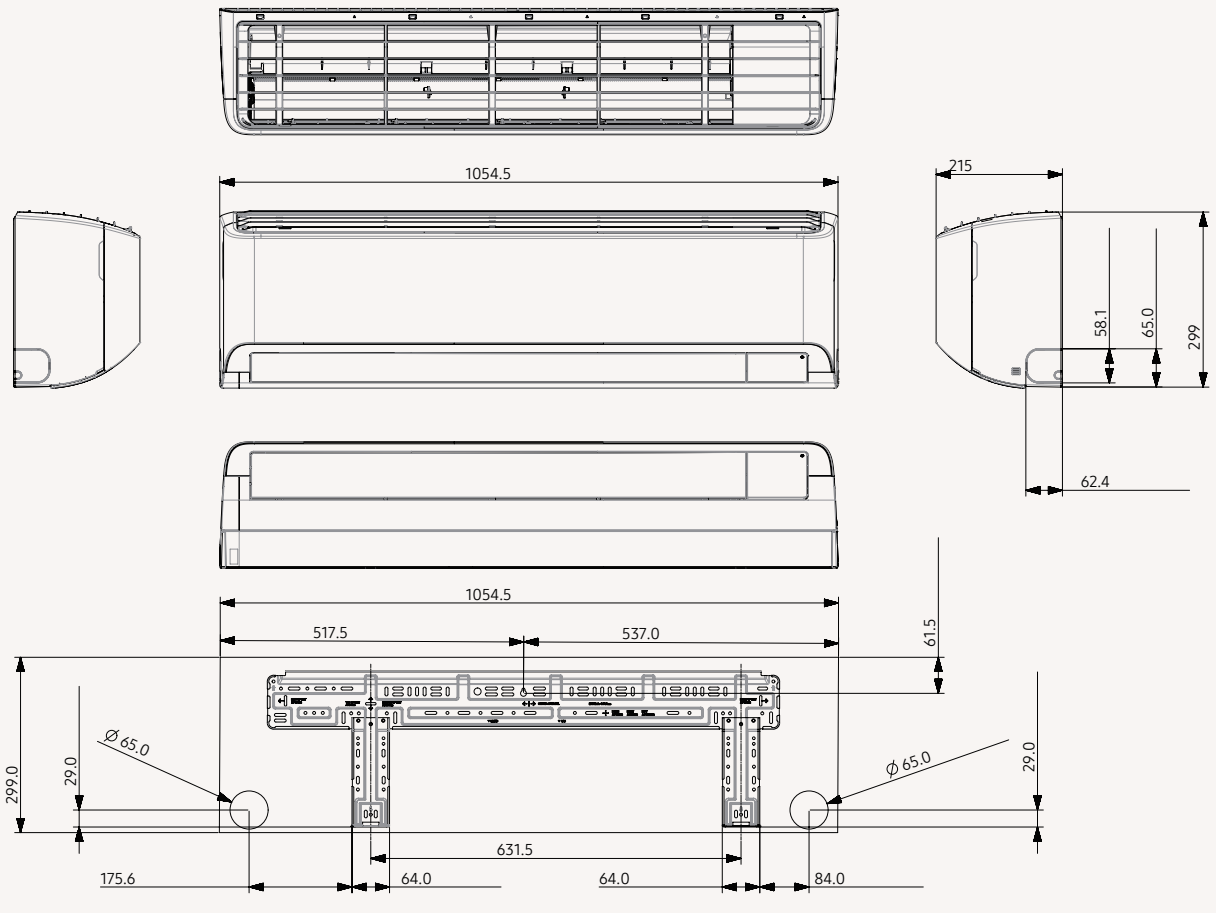
WindFree™ Deluxe

AE022/028/036TNXDEH/EU



WindFree™ Deluxe

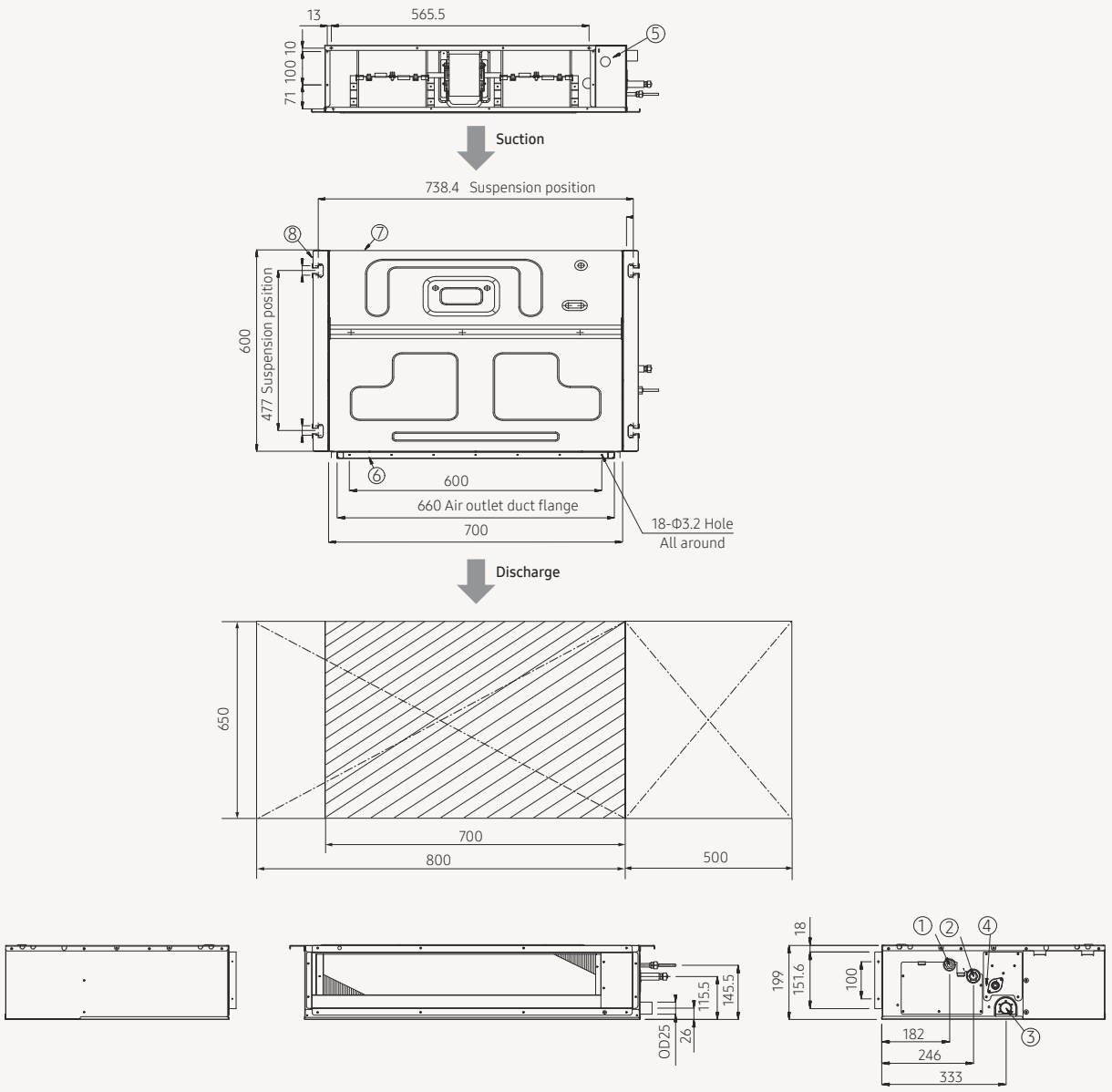
AE056/071TNXDEH/EU



Dimensional Drawings

TDM Plus Slim Duct

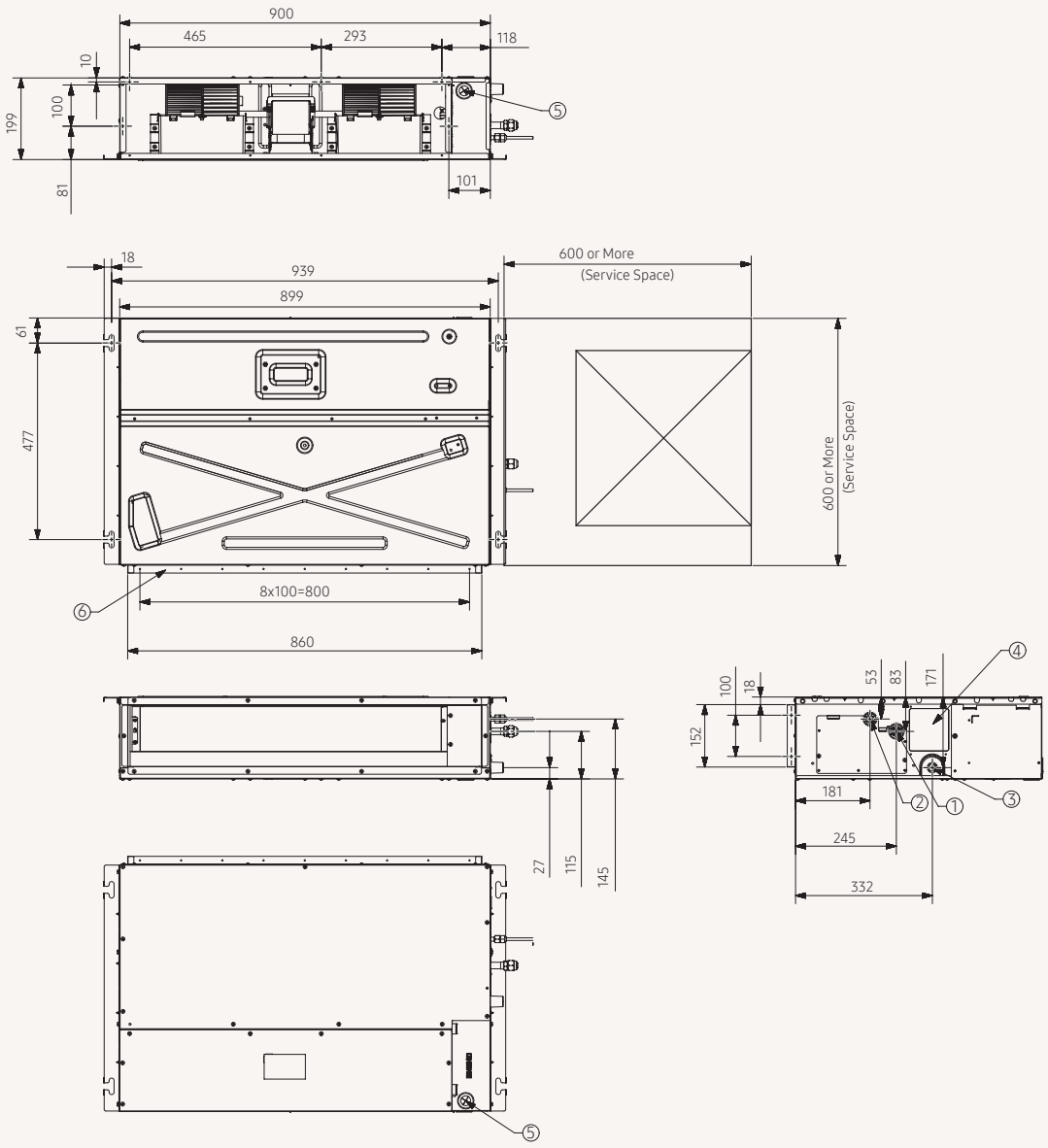
AE022/028/036MNLDEH/EU



NO	Name	Description
1	Liquid pipe connection	Φ6.35(1/4")
2	Gas pipe connection	Φ12.70(1/2")
3	Drain pipe connection without drain pump	VP25(OD Φ32, ID Φ25)
4	Drain pipe connection with drain pump	VP25(OD Φ32, ID Φ25)
5	Power supply/Communication connection	-
6	Air discharge grille flange	-
7	Return air side	-
8	Hook	Φ9.52 or M10

TDM Plus MSP Duct

AE056MNLDEH/EU

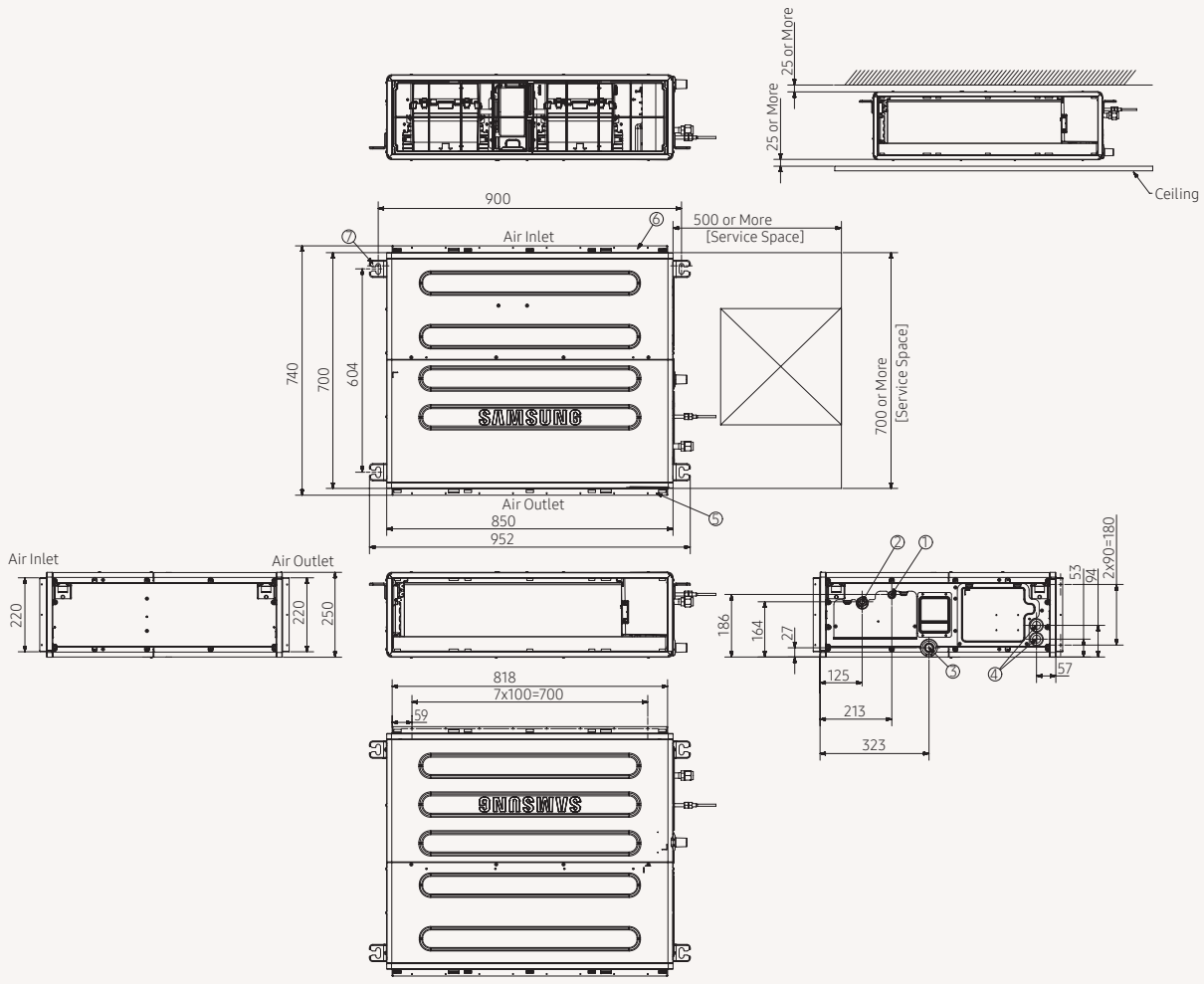


NO	Name	Description
1	Gas pipe connection	Φ12.7(1/2)
2	Liquid pipe connection	Φ6.35(1/4)
3	Drain pipe connection	VP-25(OD 32, ID 25)
4	Knockout hole for Drain pump	Option kit
5	Power supply & Communication wiring conduit	-
6	Air outlet duct flange	-

Dimensional Drawings

TDM Plus MSP Duct

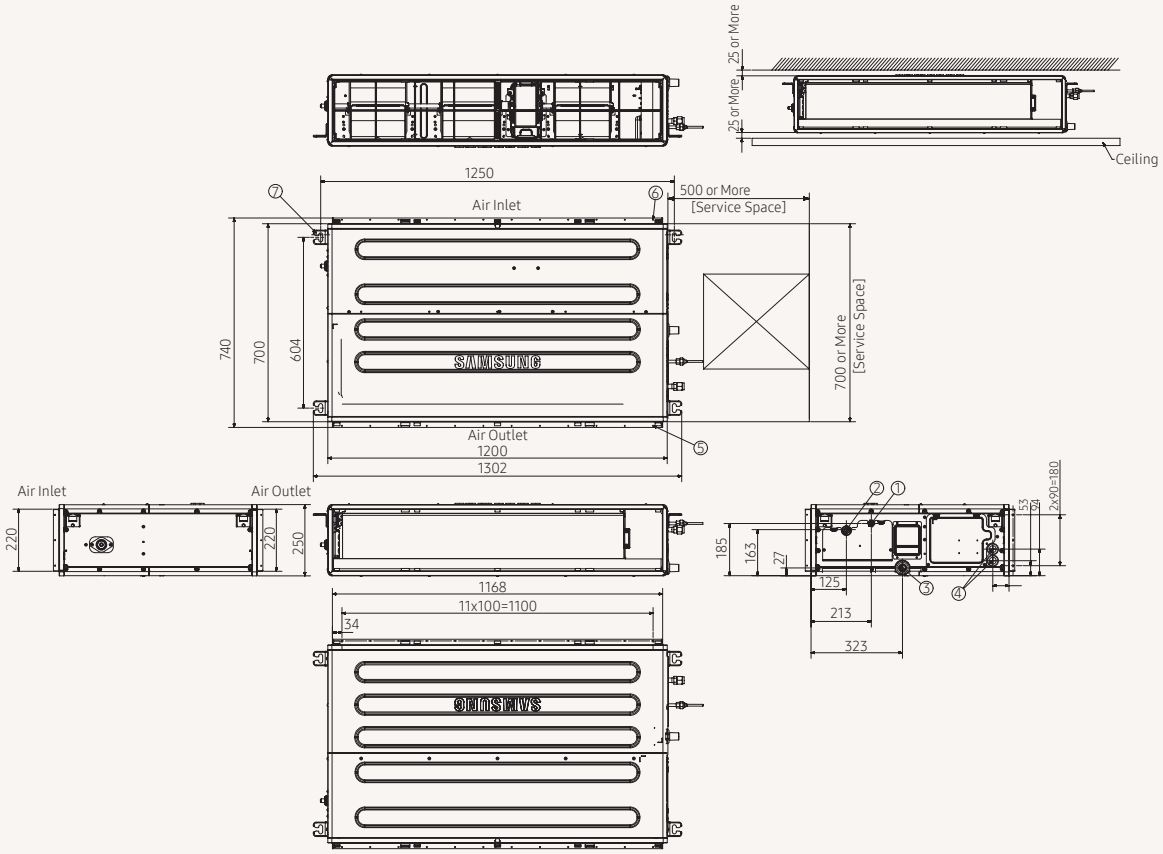
AE071MNMPEH/EU



NO	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD 32, ID 25)
4	Power supply & Communication wiring conduit	-
5	Air suction flange	-
6	Air discharge flange	-
7	Hook	Use M8~M10 bolt(4ea)

TDM Plus MSP Duct

AE090MNMPEH/EU

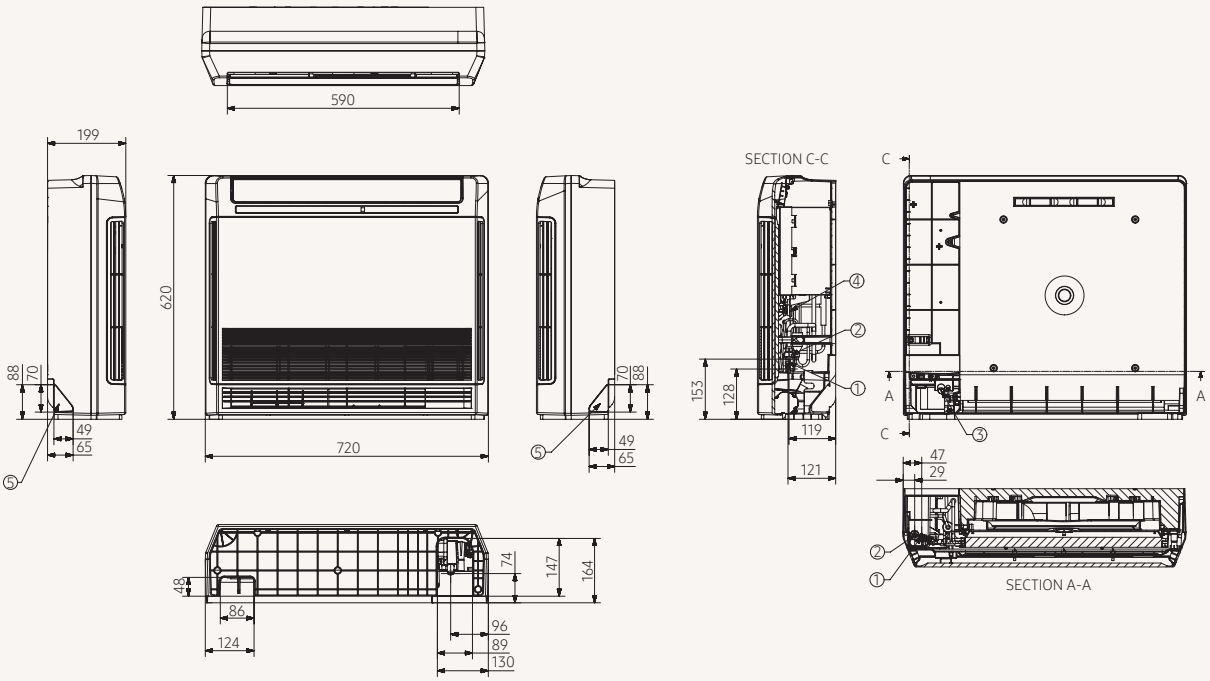


NO	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD 32, ID 25)
4	Power supply & Communication wiring conduit	-
5	Air suction flange	-
6	Air discharge flange	-
7	Hook	Use M8~M10 bolt(4ea)

Dimensional Drawings

TDM Plus Console

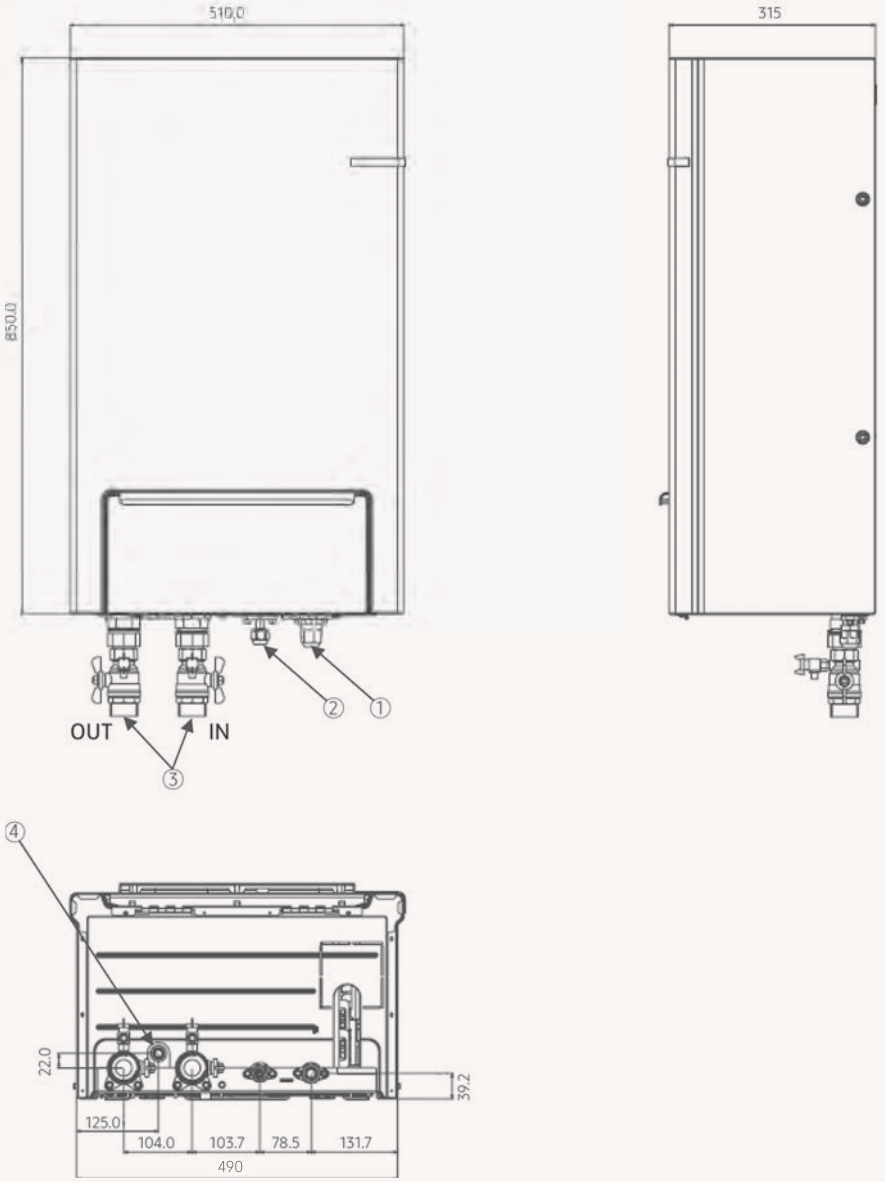
AE022/028/036/056MNJDEH/EU



NO	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)
2	Gas pipe connection	Φ12.7(1/2)
3	Drain pipe connection	ID 18mm[11/16 inch] Hose
4	Power supply & Communication wiring conduit	-
5	Knockout hole for drain hose	-

Wall-Mounted Hydro Unit

AE090/160MNYD*H/EU



NO	Name	Description
1	Gas Ref. Pipe	ϕ 6.35 (1/4") (9kW), ϕ 9.52 (3/8) (16kW)
2	Liquid Ref. Pipe	ϕ 15.88 (5/8)
3	Water Pipe (Inlet/Outlet)	BSPP male 11/4
4	Drain Hose Connector	

Renovation Solutions

Specifications

DVM S Eco Hydro Split (R410A)

- Production of hot water to a maximum temperature of 80 °C.
- 2-zone control, suitable for floor heating and radiators.
- Ideal for renovation applications.
- Energy monitoring through touch controller.
- Intuitive, colour screen touch controller in multiple languages.
- SmartThings compatible with optional Wi-Fi kit.

[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

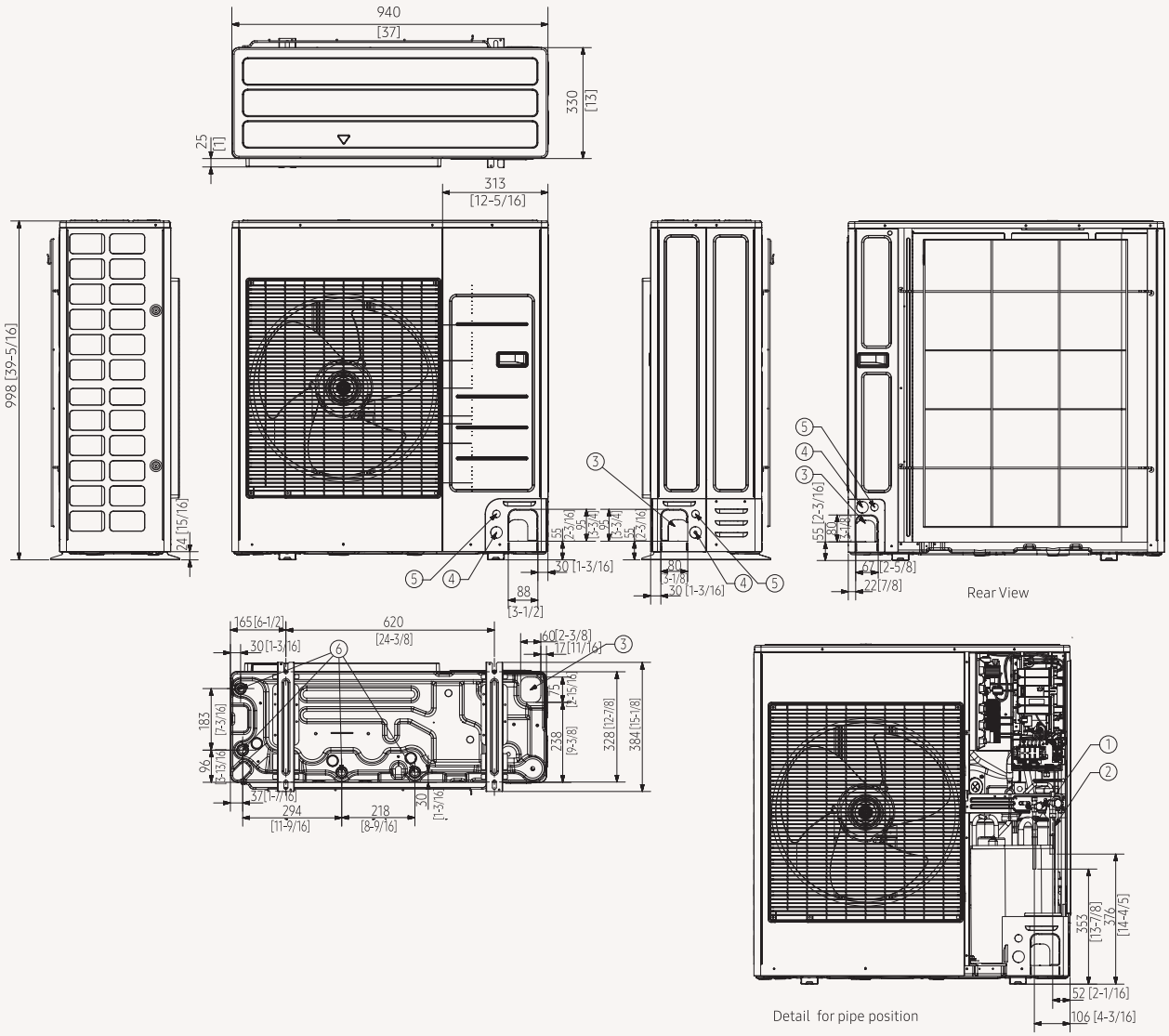


	Model (HT)				AM160TNBFEB/EU	AM250TNBFGB/EU
	Model				AM050KXMDEH/EU	AM080FXMDGH/EU
	Controller				MWR-WG00*N	MWR-WG00*N
System	Operation	HP		HP	5	8
		Nominal Capacity	Heating[1]	kW	14.0	25.0
			Cooling[1]	kW	14.0	22.4
		Power Input (Nominal)	Heating[1]	kW	3.40	4.88
			Cooling[1]	kW	4.00	5.72
		COP (Nominal Heating)		W/W	TBD	TBD
		EER (Nominal Cooling)		W/W	TBD	TBD
		SCOP LWT 35°C/ 55°C		W/W	-	-
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	TBD	TBD
		Seasonal Space Heating Eff. Class LWT 35°C/ 55°C		-	TBD	TBD
		Water flow rate	Low 35°C temp	l/min	23	36
		Current	MCA	A	27.0	18.0
			MFA	A	40	25
		Leaving Water Temperature[3]	Heating	˚C	25.0~80.0	25.0~80.0
	Functions	Smart Grid Ready/ PV Enabled		-	•	•
		3-Step Quiet Mode		-	-	-
		2-zone Control		-	•	•
Hydro Unit HT	Power Supply			Φ, #, V, Hz	1Φ, 2, 220~240 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz
		MCA (Including External Contact)			18.0	16.1
		MFA			25.0	20.0
	Sound	Sound Pressure[5]	Heating Std	dB(A)	42	42
			Cooling Std	dB(A)		
		Sound Power	Heating Std	dB(A)	60	60
	Dimensions	Net Weight		kg	104	104
		Net Dimensions (WxHxD)		mm	518 x 1.210 x 330	518 x 1.210 x 330
	Refrigerant	Type		-	R134A	
		Control Method		-	EEV	EEV
		Factory Charging		kg/tCO₂e	2.15/3.07	2.15/3.07
	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
	Operation	Ambient Temperature	Cooling	˚C	-	-
			Heating	˚C	-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)
Outdoor unit	Compressor	Type		-	Twin BLDC Rotary	Inverter Scroll
	Sound	Sound Pressure[2]	Heating Std	dB(A)	55	56
			Cooling Std	dB(A)	57	58
		Sound Power	Heating Std	dB(A)	75	74
	Dimensions	Net Weight		kg	83.5	135.0
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,420 x 330
	Refrigerant	Type			R410A	R410A
		Factory Charging		kg/tCO₂e	2.50/5.22	3.70/7.73
	Piping Connections	Liquid Pipe		ø, inch	3/8	3/8
		Gas Pipe		ø, mm	15.88	19.05
				ø, inch	5/8	3/4
		Piping length (ODU-IDU)[3]	Max. (Equiv.)	m	50 (65)	100 (130)
		Piping length (1st Branch - IDU)[3]	Max.	m	40	40
		Total piping length (System)	Max.	m	150	300
		Level Difference (Outdoor in highest position)	Max.	m	30	30
		Level Difference (Indoor in highest position)	Max.	m	25	30
		Level Difference (IDU-IDU)3	Max.	m	15	30
	Operation	Ambient Temperature	Heating	℃	-20.0~24.0	-20.0~24.0
			Cooling	℃	-5.0~48.0	-5.0~48.0

Dimensional drawings

DVM S Eco Heat Pump

AM050KXMDEH/EU

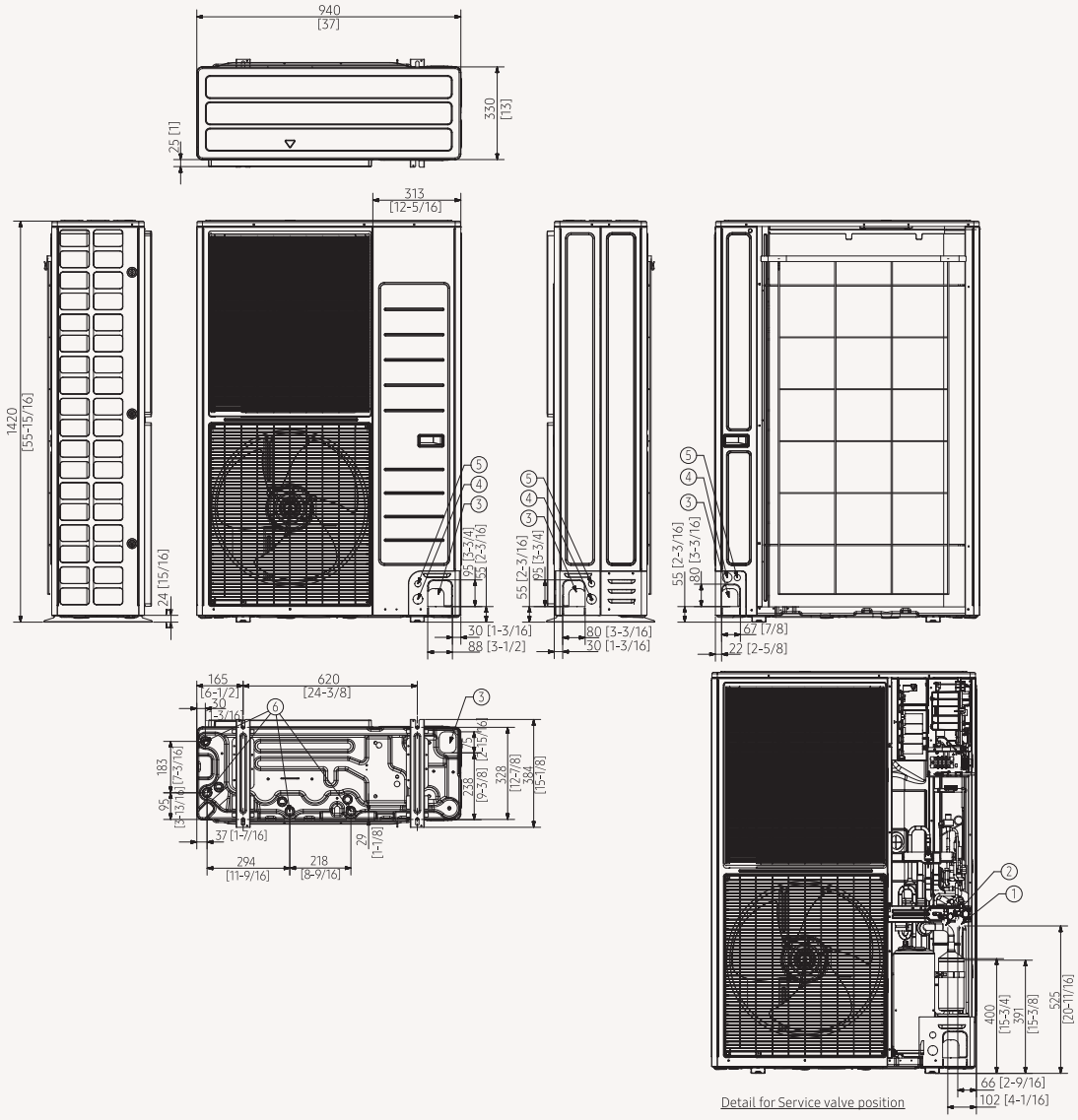


NO	Name	Description
		5 hp
1	Refrigerant liquid pipe	ø9.52 (ø3/8)
2	Refrigerant gas pipe	ø15.88 (ø5/8)
3	Knock-out hole for pipe intake	Front/Side/Rear/Bottom
4	Power wiring conduits	Front/Side/Rear, ø34.00 (ø1 3/8)
5	Communication wiring conduits	Front/Side/Rear, ø22.00 (ø7/8)
6	Drain holes	Connect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

Dimensional drawings

DVM S Eco Heat Pump

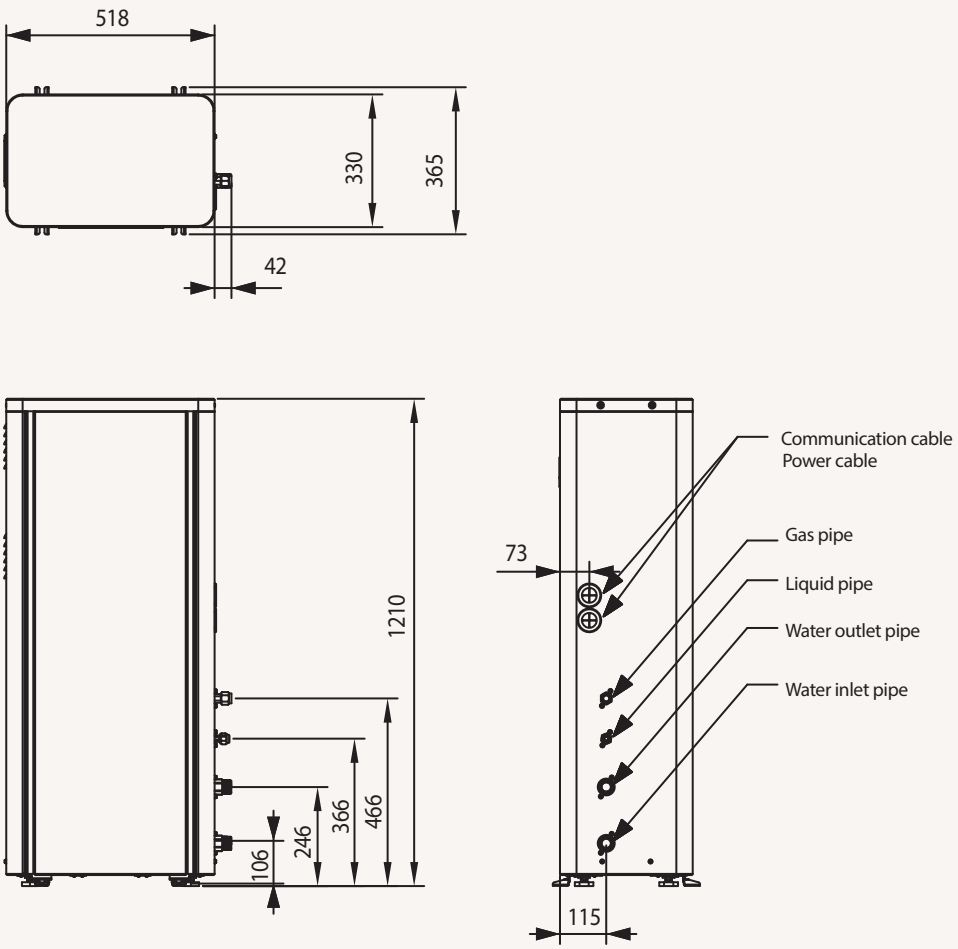
AM080*XMDGH/EU



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.

Hydro Unit HT

AM160TNBFEB/EU, AM250TNBFGB/EU



NO	Name	Description
1	Liquid side connection part	3/8 (ø9.52)
2	Gas side connection part	5/8 (ø22.23)
3	Water side connection part	PT1 (25 A)

Controls


Zone 1
Set
18.0°
Zone 2
Set
21.0°
DHW
Set
55.0°

Line-up

Category	Product	Model		Compatibility Table				
				EHS ClimateHub R32		EHS with Third Party Tank		
				EHS Mono R32	EHS Split R32	EHS Mono R32	EHS Split R32	EHS Split R410A
Individual Control System	Wireless Remote Controller	AR-EH03E						
		MR-EH00						
	Wired Remote Controller	MWR-WW10*N		●	●	●	●*	●*
		MWR-WW00N						
		MWR-WG00*N						
	Touch Controller	MWR-SH11N						
	Mono Control Kit	MIM-E03CN				●		
Centralised Control System	Touch Controller	MCM-A300N		●	●	●	●	●
	Wi-Fi Kit 2.0	MIM-H04EN		●	●	●	●	●
Integrated Control System	DMS 2.5	MIM-D01AN		●	●	●	●	●
	b.IoT	MST-BL1A		●	●	●	●	●
Interface Module & Gateway	External Contact Interface Module	MIM-B14				●	●	●
	Pulse Interface Module (PIM)	MIM-B16N		●	●	●	●	●
	Modbus Interface module	MIM-B19N		●	●	●	●	●
Others	S-Converter	MIM-C02N		●	●	●	●	●
	External room sensor	MRW-TA		●	●	●	●	●
	Receiver Kit	MRK-A10N						

Compatibility Table							
TDM Plus R410A						Renovation Solution	
TDM Plus ClimateHub R410A	Wall-Mounted Hydro Unit	TDM Plus WindFree™ Deluxe	Slim Duct	MSP Duct	Console	DVM S Eco	DVM Hydro
		●*				●	
			optional	optional	●*		
●							
	●*						●
							●
		●	●	●	●	●	
●	●	●	●	●	●	●	
●	●	●	●	●	●	●	
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●	●	●	●	●	●	●	
	●	●	●	●	●	●	
●	●	●	●	●	●	●	
●	●	●	●	●	●	●	
●	●	●	●	●	●	●	
●	●	●	●	●	●	●	
			●	●		●	

*No need to order separately, controller is already included.

Features

Controls | Individual Control

Wireless / Wired Remote Controllers		
Wireless Remote Controller Standard with WindFree™ AR-EH03E		• WindFree™ On/Off • Filter replacement alarm reset • Simple On/Off timer • Indoor unit option code setting • Temperature setting range • Auto/Cool/Dry : 18°C - 30°C • Heat : 16°C - 30°C • Direct/Indirect function On/Off • Motion Detect Sensor necessary • Net dimensions (W x H x D): 48 x 138 x 24mm
Wired Remote Controller Standard type for EHS MWR-WW10*N		• Full color 4.3" LCD screen • Easy and Intuitive UI • 2-zone Control • LCD Backlight • Multiple Language support* • IR receiver is included • Daylight Savings Time • °C / °F Convertible • Error list display • Built-in room temperature sensor • SD slot • Net dimensions (W x H x D): 120 x 120 x 19mm * Available languages: English, German, Spanish, French, Italian, Polish, Portuguese, Dutch, Greek, Czech, Slovak, Finnish, Swedish, Norwegian, Danish and Lithuanian.
Wired Remote Controller 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 • ontrol 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 • Operation time limit **User convenience function** • Child lock • Different button permission levels • Room temperature display • Dual set point • Built-in room temperature sensor • Real-time clock: displays current time and day (summer time support) • Multiple language support • Service mode support • Indoor unit cycle data monitoring • Indoor unit option code setting and monitoring • Indoor unit address setting and monitoring • SD card slot
Wired Remote Controller MWR-WW00N		• Air conditioner/ERV operation setting (Horizontal air flow, WindFree™) • LCD Backlight • Air conditioner/ERV error monitoring • Air conditioner individual blade control • Filter cleaning alert/reset alert time • Air conditioner/ERV interlocking control • Energy saving control • Automatic operation stop function • Weekly operation schedule setting • Button restriction function • Built-in room temperature sensor • Real time clock (Daylight Savings Time) • Control max. 16 indoor units (Air conditioner + ERV) in group with single wired remote controller • Net dimensions (W x H x D): 120 x 124 x 19.5mm

Wired Remote Controller Touch Simple type MWR-SH11N		• Touch screen wired remote controller • LCD Backlight • IR receiver is included • Away function • Quiet mode, Sleep mode • Reset filter cleaning alert indicator • Air conditioner Individual/group control • Operation On/Off timer function • WindFree™/Long horizontal wind • Button locking function • Eliminate Operation Mode function : Auto/Cool/Dry/Fan/Heat mode • Built-in room temperature sensor • °C / °F Convertible • Relative temperature setting function : -3 ~ +3°C setting • Control max. 16 indoor units in group with a single wired remote controller • Net dimensions (W x H x D): 94.2 x 122 x 19.5mm
Mono Control Kit MIM-E03CN		• EHS R32 Mono control Kit • Includes remote controller (MWR-WW10N) and flow sensor • Mounting box with the control printed board assembly • Leaving and return water sensors • Domestic Hot Water sensor • Net Dimensions (WxHxD) mm 290 x 110 x 370 mm

Controls | Centralised Control

Centralised Control Systems		
Touch Controller MCM-A300N		• 7 inch touch LCD controller • Controls max. 128 indoor units • Controls max. 12 zones • Schedule control, Indoor unit usage restriction, View indoor unit error history • Net dimensions (W x H x D): 205 x 163 x 38mm
Wi-Fi Kit 2.0 MIM-H04EN Bixby SmartThings		• Enhanced Convenience • Voice Control available through a smartphone with Bixby • Connected home with affordable units in every home using SmartThings • Welcome cooling and heating based on Geo-fencing • Individual indoor unit control • Personalized Climate Environment • Preferred automation • Multi-device experience interoperable with smart appliances • Energy Usage Monitoring • Current and daily, weekly or monthly energy usage* of the outdoor unit • Provides ease of installation • Easy set-up possible for up to 16 indoor units at once • Net dimensions (W x H x D): 185 x 130 x 29mm

*Calculated by Samsung's own algorithm, it cannot be used as a legal basis.

Features

Controls | Integrated Control

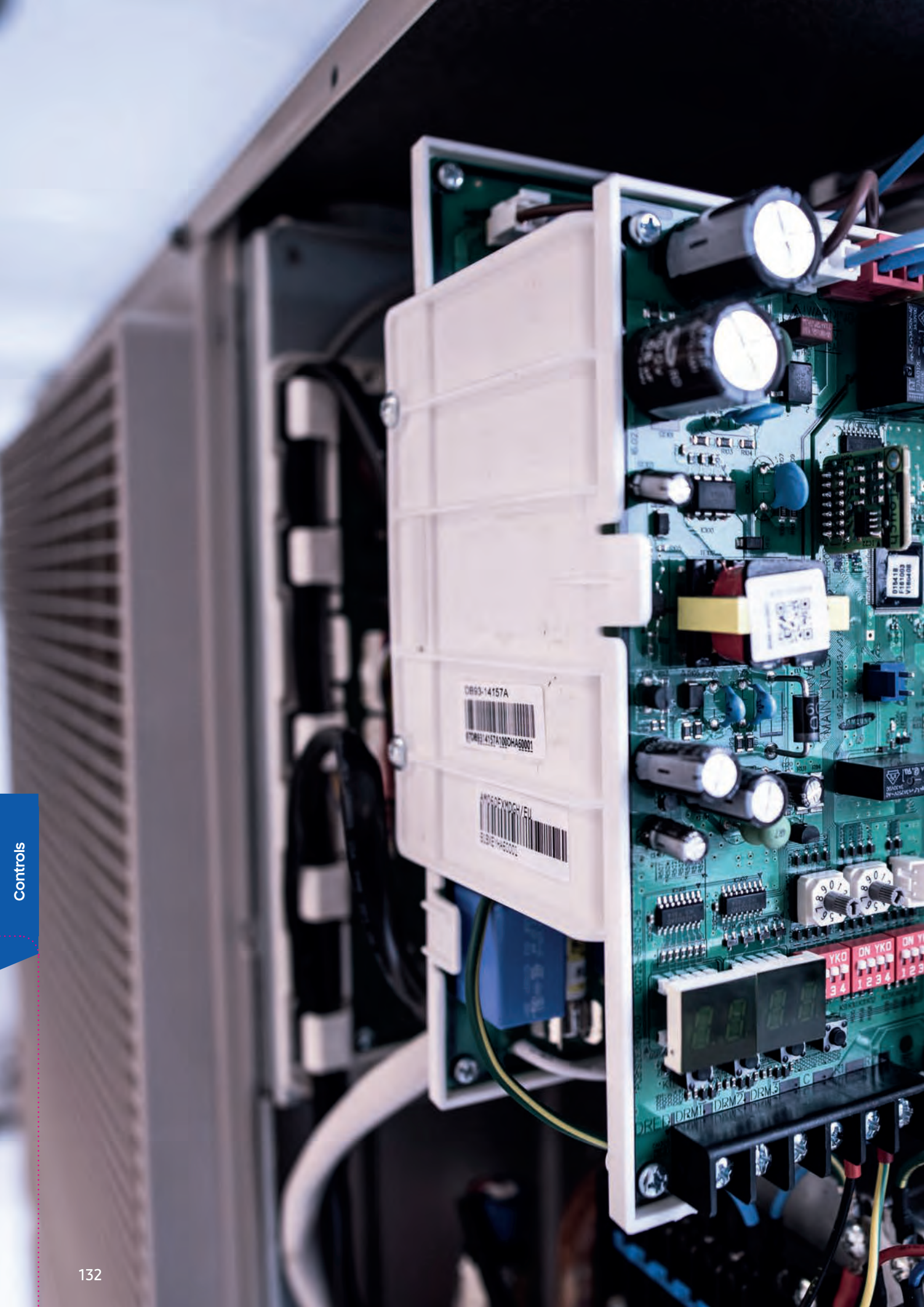
Integrated Control Systems		
DMS2.5 MIM-D01AN		• Built-in web server for PC-independent management and remote access control • Multiple upper-layer control access (S-NET 3, Web-client) • Weekly/Daily schedule control • Power distribution function • Current time management even during power failure (for 24 hours) • Emergency stop function with simple contact interface • Individual/Group control of up to 256 indoor units, AHU and ERV • User editable control logic • Accessible level management. • Dynamic security management • Operation & error history management • Data storage in non-volatile memory & SD memory • Net dimensions (W x H x D): 240 x 255 x 65mm

Controls | Interface devices

Module, Application Kit, Gateway		
External Contact Interface Module MIM-B14		The Samsung Guestroom Management System saves users the energy and money wasted on cooling an unoccupied room. The air conditioner is activated when the Key-Tag is in place and turns off when the Key-Tag is removed. An external contact interface module provides direct indoor unit control via an external contact signal, as well as window-synchronised indoor unit control. The emergency control function features simple contact input. Plus the module generates indoor unit operation/error state output through relay contacts. • Direct indoor unit control by external contact signal • Window-synchronised indoor unit control • Emergency control with simple contact input • Indoor unit operation/error state output through relay contacts • Net dimensions (W x H x D): 50 x 80 x 35mm
Modbus Interface Module MIM-B19N		A BMS or 3rd controller can control a Samsung SAC by using the Modbus protocol. • BMS unit protocol: Modbus RS485 (2 wires, max. 1,000m) • Unit connection protocol: Samsung Control Layer Protocol (R1/R2) • Max. No. of connection units: 1 outdoor unit (4 outdoor units including sub units in the case of modular installation) and 48 indoor units • Modbus interface module address range : up to 247 • Net dimensions (W x H): 50 x 80mm
Pulse Interface Module (PIM) MIM-B16N		The Watt-hour Meter Interface Module can be exclusively used for DMS 2.5 power distribution, displaying power consumption for each watt-hour meter. • Exclusive use for DMS 2.5 power distribution • Connection with up to 8 watt-hour meters • Pulse interface with watt-hour meters • Watt-hour meter - by 3rd party • Net dimensions (W x H x D): 240 x 255 x 65mm

Controls | Others

Module, Application Kit, Gateway		
S-Converter MIM-C02N		Communication converting module to connect a Samsung system air conditioner to a PC • Main reasons for use: - To connect with test run program [Test run program] - S-NET Pro: Conventional communication - S-NET Pro2: New communication • Net dimensions (W x H x D): 66 x 92 x 28mm
External Room Sensor MRW-TA		• Indoor unit is operated by MRW-TA instead of its own sensor. • Wire length: 12 m (39 ft)
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) • Net dimensions (W x H x D): 80 x 130 x 28mm


DB93-14157A
DRM1
DRM2
DRM3
ON YKO

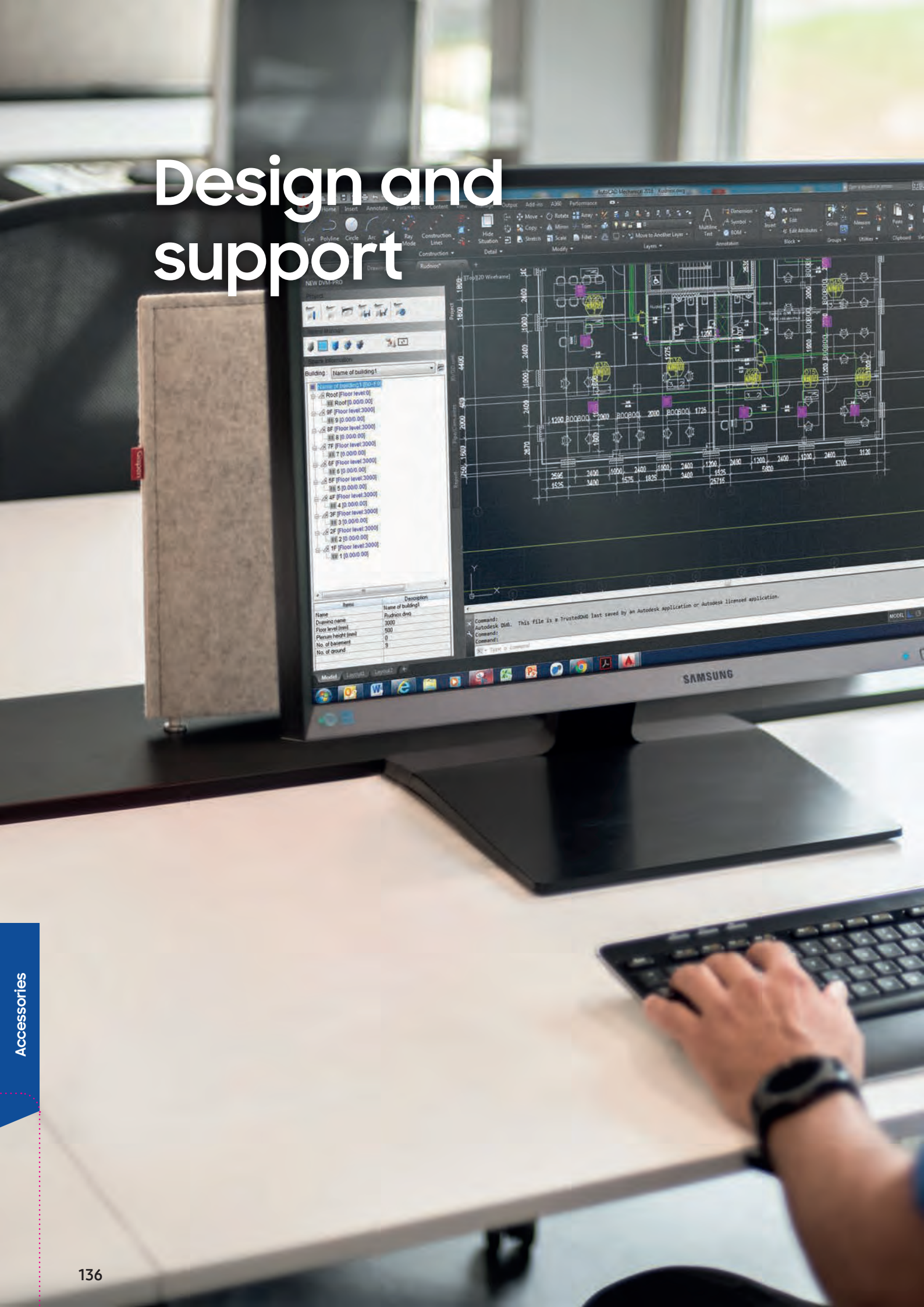
Accessories

Compatibility

Accessories		Name	Indoor unit	TDM Plus Slim Duct	TDM Plus MSP Duct	TDM Plus WindFree™ Deluxe	TDM Plus Console	Wall-Mounted Hydro Unit	EHS ClimateHub
		Name	Model code	2.2-5.6 kW	7.1-9.0 kW	2.2- 7.1 kW	2.2-5.6 kW	9.0/16.0 kW	200/260 L
EEV Kit (1/2/3 room)		1 Indoor	MEV-E24SA			●			
			MEV-E32SA			●			
		2 Indoor	MXD-E24K132A			●			
			MXD-E24K200A			●			
			MXD-E32K200A			●			
		3 Indoor	MXD-E24K232A			●			
			MXD-E24K300A			●			
			MXD-E32K224A			●			
			MXD-E32K300A			●			
Y-Joint		(≤15.0 kW and below)	MXJ-YA1509M	●	●	●	●	● (TDM Plus only)	● (TDM Plus only)
Drain Pump		Internal	MDP-E075SEE3D	●					
		External	MDP-G075SP		●				
		Internal	MDP-G075SQ		●				
Backup Heater		4 kW	MHC-400FE						●
		6 kW	MHC-600FE						●
SPi kit		MSD-EAN1	Duct S, ERV (Plus)	●	●				

Project: Casa L (Spain)
Project Architecture: ÁBATON
Interior Design: BATAVIA
Photography: Carlos Muntadas

Design and support



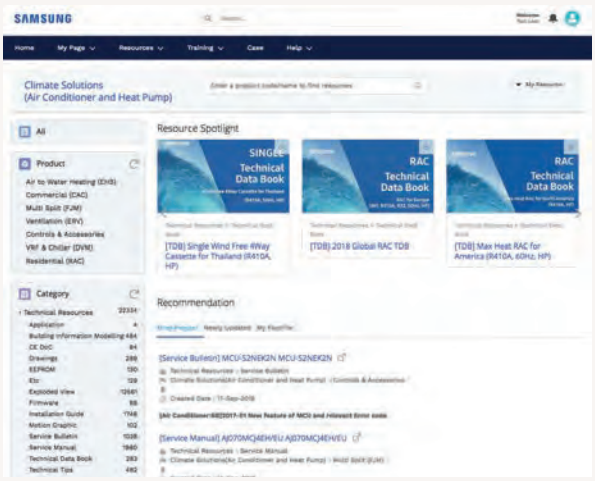

SAMSUN

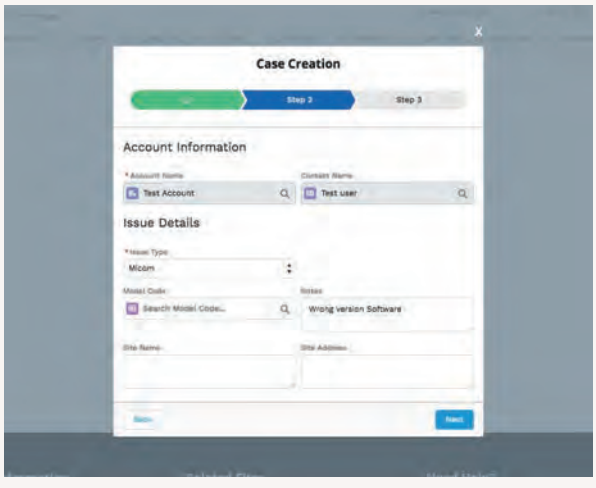
Samsung Climate Solutions Partner Portal

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

Access technical resources

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





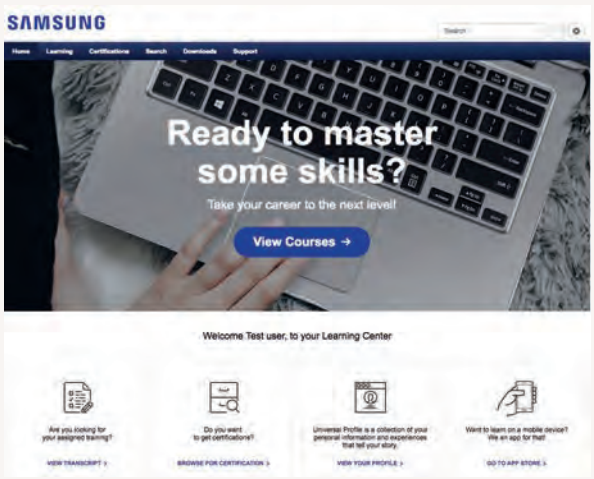
Request technical support

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

Register for training

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

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



How to access

Register

To register for the Samsung Climate Solutions Partner Portal, open your web browser[1] and go to **partnerhub.samsung.com/climate** to complete the registration form.

Access

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

Manage account

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

Search and download

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

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

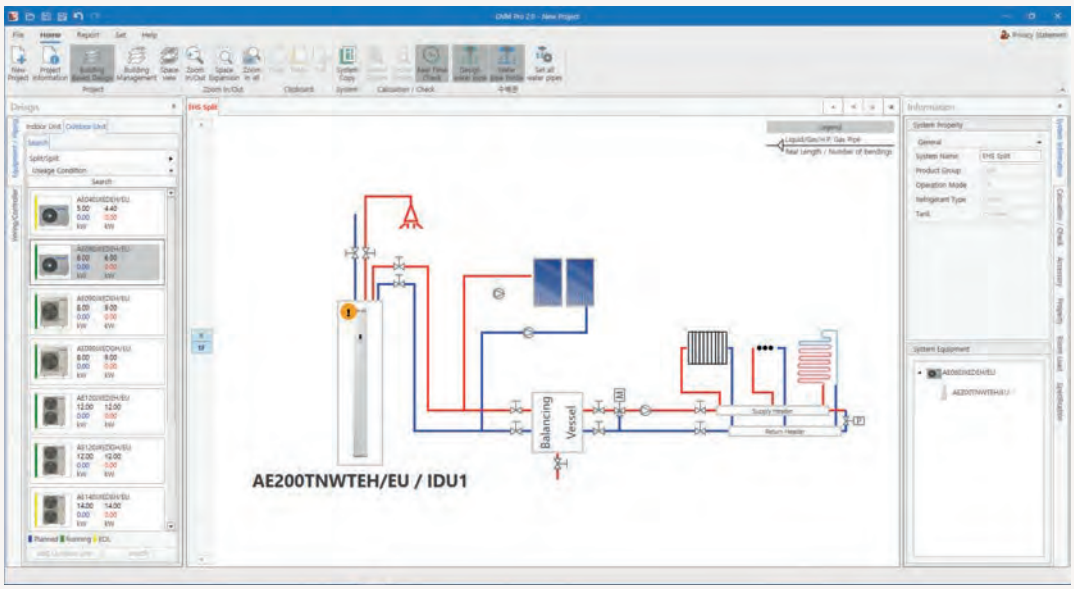
Samsung DVM Pro 2.0

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

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

Sales Mode

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



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

Piping schematics
Basic or manual selection with system check and capacity simulation

Control systems
Automatic control unit selection

Reports
Specifications, diagrams in DWG & BMP format, quotations

Performance simulation
Capacity correction tool against specific design conditions

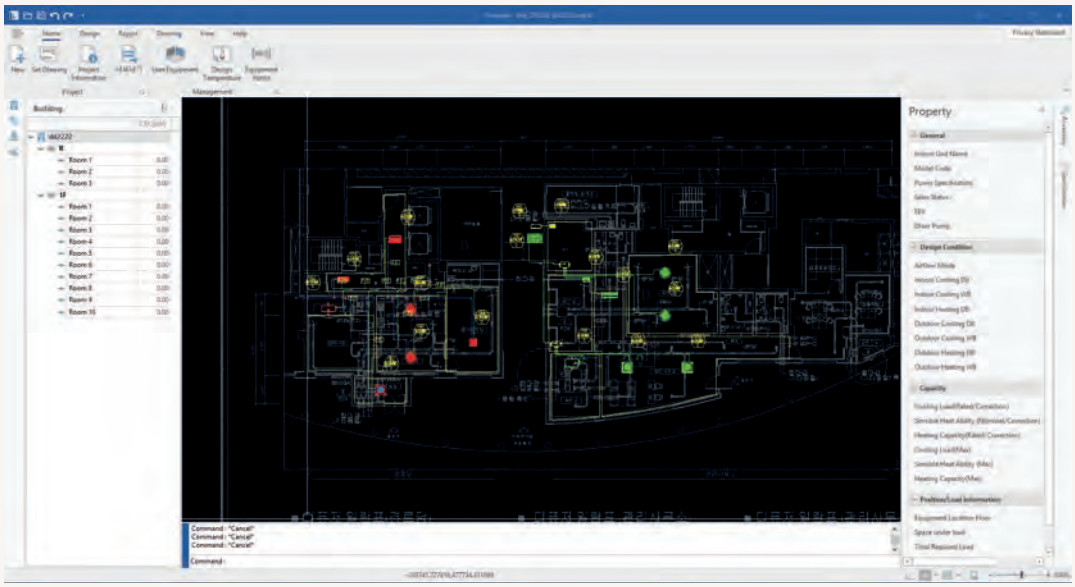
Updated Toolbar NEW
User-friendly tool bar helps to guide intuitively

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

CAD Mode

CAD Mode is an in-depth and precise design tool that enables users to design their air conditioning systems using AutoCAD software[1].

[1] Sourced separately.



Pipe sizing & lengths
Refrigerant & drain pipe sizing

System check
Installation regulation & refrigerant charging

Automatic selection
Refnet joint, header & distributor kit

Automatic report
Piping installation

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

How to access

1 www

Register

Go to **dvmpro.mkt.samsung.com** to access the Samsung DVM Pro 2.0 Portal[1]. If you do not have access yet, complete the registration process and you will be sent the access details.

2

Select

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

3

Download

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

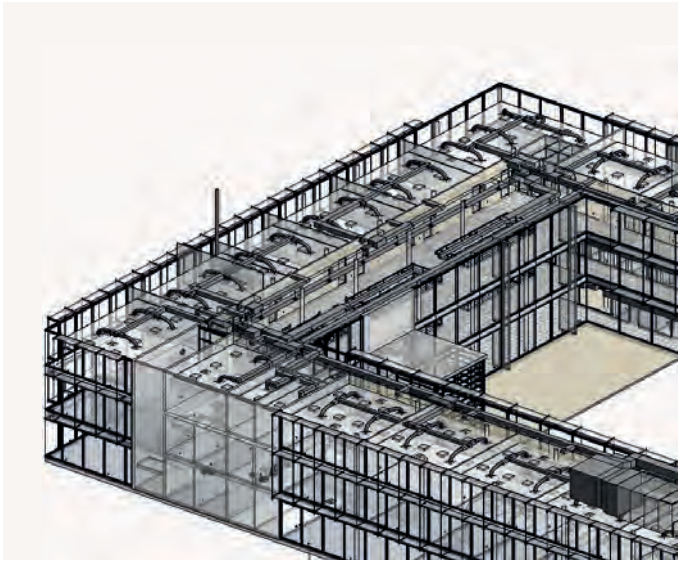
[1] Google Chrome is the recommended web browser for using the Samsung DVM Pro 2.0 Portal.

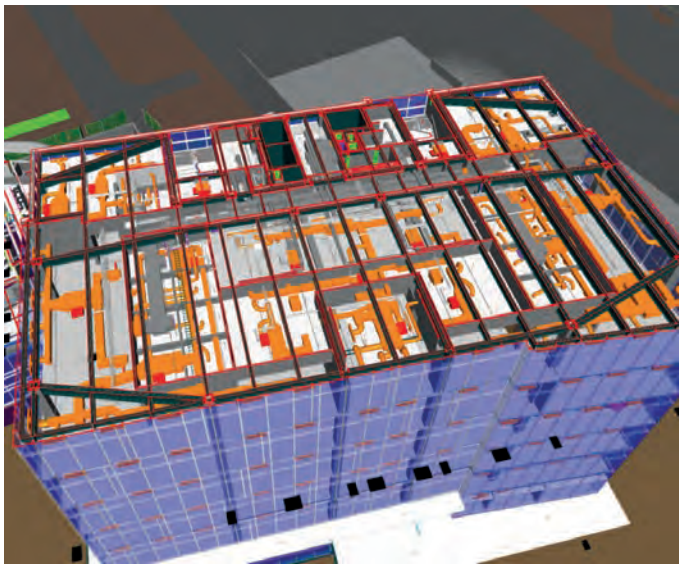
Samsung specialist design support

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

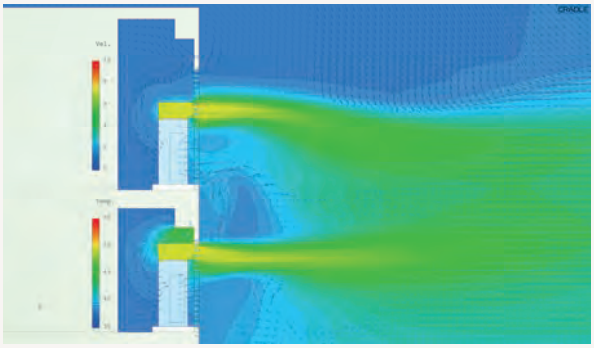
BIM support

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





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



CFD analysis

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

BREEAM advice

BREEAM (BRE[1] 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.

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

How to obtain support

BIM support

To download Samsung BIM models, go tho Technical Resources on **partnerhub.samsung.com/climate**[1]. To request dedicated project design support from Samsung, please contact your Samsung representative.

CFD analysis

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

BREEAM evaluations

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

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

Samsung Climate Solutions Academy

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

Available training modules

Essential courses: Basic commercial training

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

Advanced courses: Technical training

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

Advanced courses: Design training

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

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

Samsung training centres in Europe

How to register for training

1 www

Search

To check for available training courses, go to Samsung Business Academy (SBA) via the Samsung Climate Solutions Partner Portal[1]: **partnerhub.samsung.com/climate**. Search the online event calendar and select the training course you would like to attend.

2 @

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.

3

Get certified

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

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

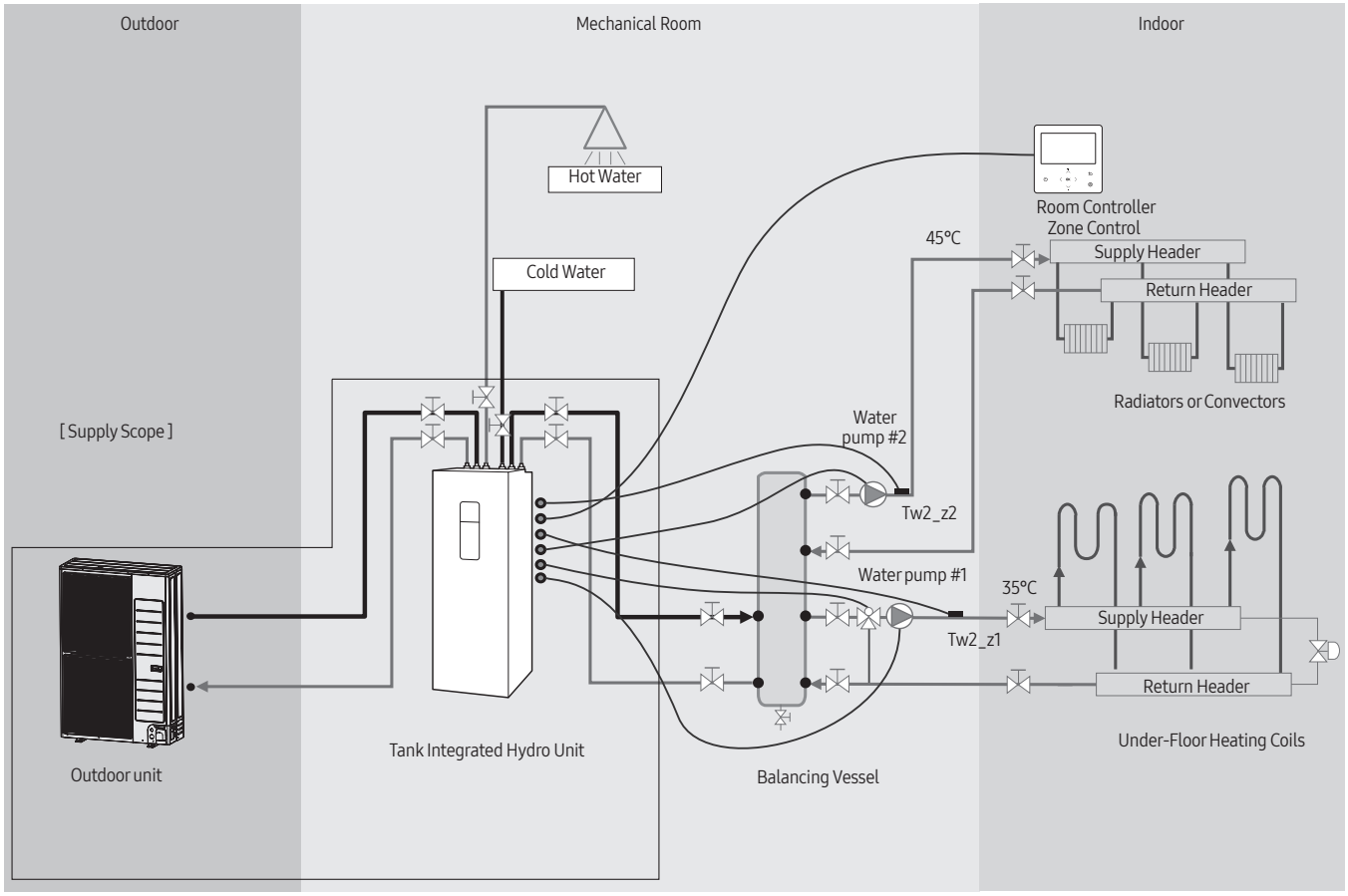
Hydraulic Schematics

Project: Casa L (Spain)
Project Architecture: ÁBATON
Interior Design: BATAVIA
Photography: Carlos Muntadas

ClimateHub Split

Application examples

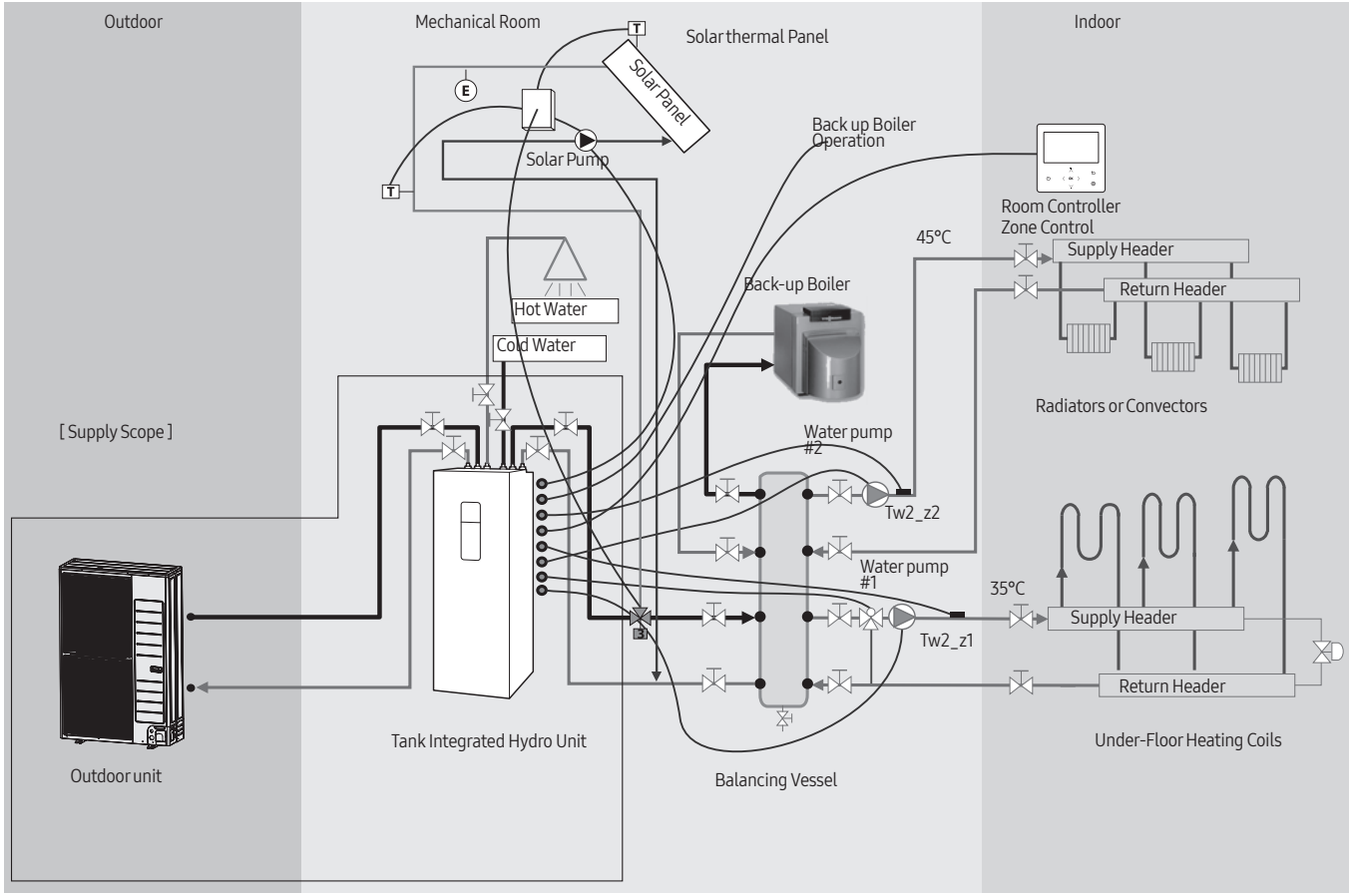
Application 1: Space heating + water heating



ClimateHub Split

Application examples

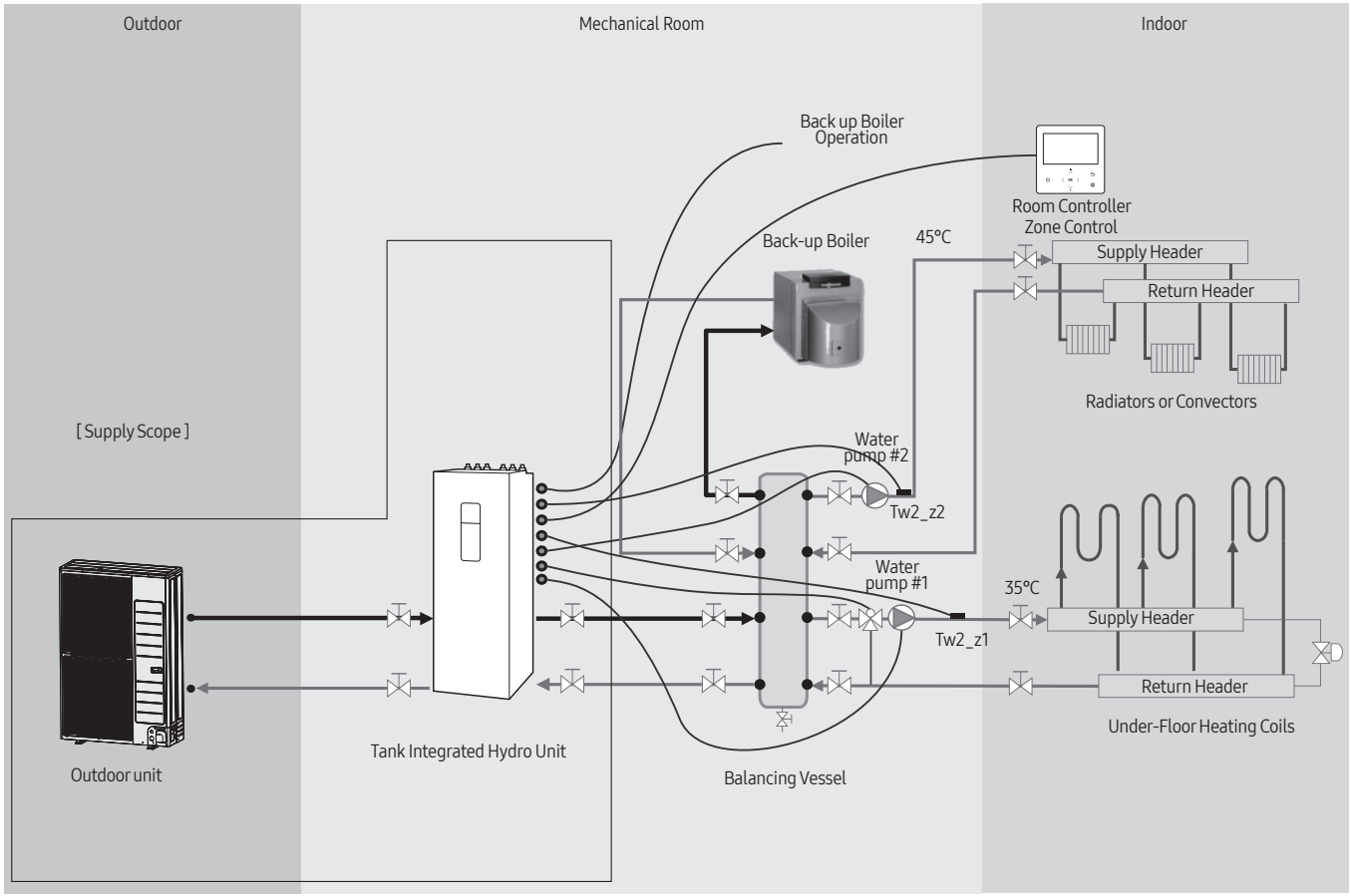
Application 2: Hybrid application (backup boiler and solar panel connected)



ClimateHub Mono

Application examples

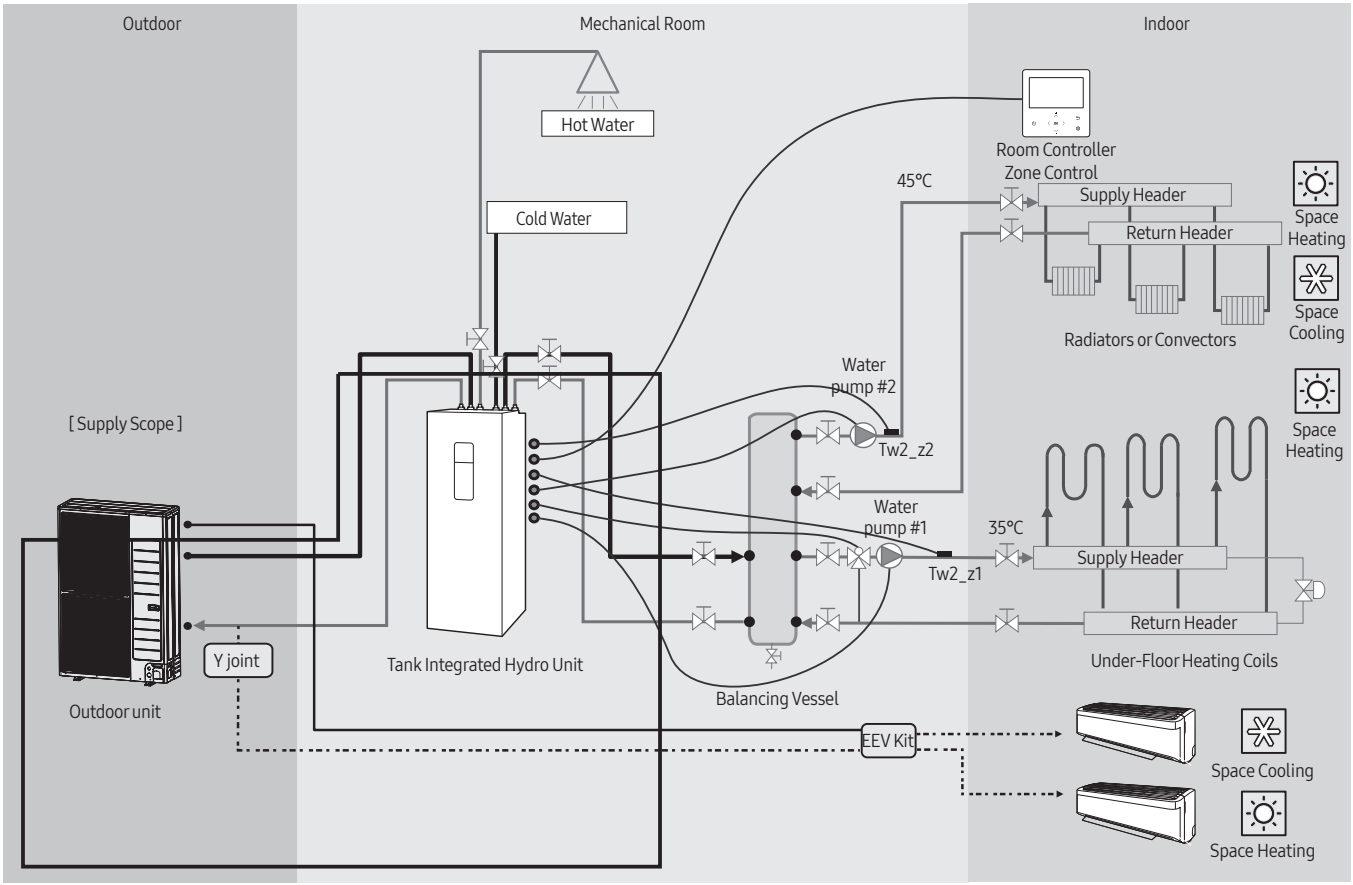
Application 3: Space heating + water heating



ClimateHub TDM Plus

Application examples

Application 4: Space heating + water heating/ A2A cooling



Notes

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

CE

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

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

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SAMSUNG