Product Catalogue

Eco Heating Systems

20/21

Highlights for 2020-2021

WindFree™

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.

NEW

Wi-Fi Control

The new optional Wi-Fi Kit allows users to control up to 16 connectable indoor units via smartphone with the Samsung SmartThings app[2]. The app checks indoor temperature, outdoor temperature and air quality levels, and then recommends the optimal operating mode. It also offers the option of adding user scenes such as working, walking or resting. The geofencing functionality allows the room temperature to be automatically set at the desired level when the user approaches within a preset distance of 100 m - 150 km from the building.

Wi-Fi Kit

- Wi-Fi control up to 16 indoor units through Samsung SmartThings.
- Welcome Cooling or Heating through geofencing functionality.
- Individual energy monitoring for up to 16 outdoor units.
- The voice command feature is available through a smartphone with Bixby[3].

Bixby   **SmartThings**

NEW

ClimateHub TDM Plus

The Samsung EHS (Eco Heating System) extends the compact and modular Tank Integrated Hydro Unit for TDM Plus in addition to Mono and Split. The ClimateHub with Tank Integrated Hydro Unit saves space, but also reduces the time of installation. With a 2-zone control and advanced functions, energy efficiency and sustainability performance are optimised. Its Time Division Multi Operation means it can supply hot water while also cooling spaces.
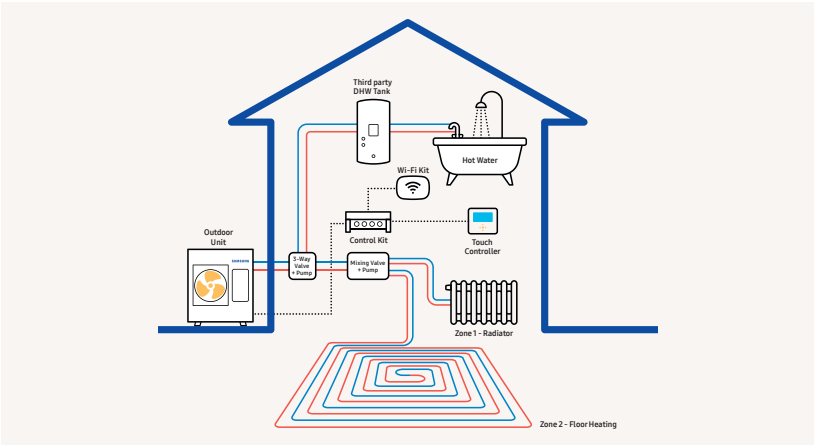
ClimateHub TDM Plus

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[1].
- Energy monitoring through touch controller.
- 2-zone control, suitable for floor heating and radiators.
- SmartThings compatible with optional Wi-Fi kit[2].
- Backup heater is included to ensure continuous heating.
- Solar Power (PV) and Smart Grid ready.
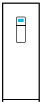- Smooth servicing through the front-mounted service window.

NEW

[1] ASHRAE (the American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents moving at speeds below 0.15 m/s, with no cold drafts.
[2] A Wi-Fi connection and Samsung SmartThings application account are required. Wi-Fi Kit to be ordered separately. Requires iOS 10.0 or later & Android 5.0 or later.
[3] Currently Voice control is supported in English (US, UK, Indian), Chinese, Korean, French, German, Italian, Spanish and Portuguese.

[1] Available languages: English, German, Spanish, French, Italian and Polish. [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.

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.

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	

Split

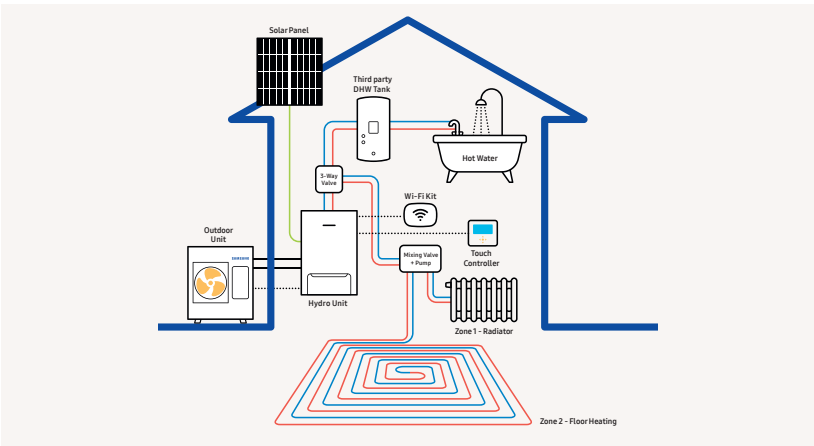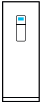The EHS Split outdoor unit is connected to a wall-mounted Hydro Unit to combine with a third party Domestic Hot Water (DHW) tank to suit all requirements. When used with the Hydro Unit, the Split enables production of domestic hot water and underfloor heating/cooling, and heating of radiators.

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	

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 with a third party connection offers A2W and A2A home climate comfort.

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	

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.

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).
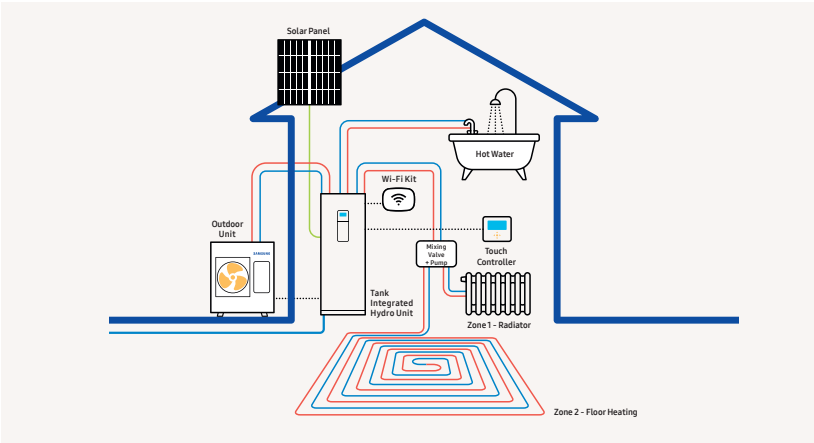
ClimateHub Split

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).
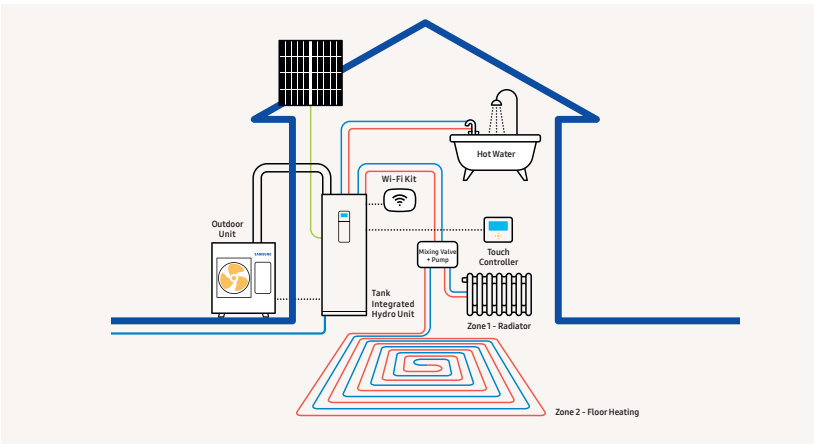
ClimateHub TDM Plus NEW

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).
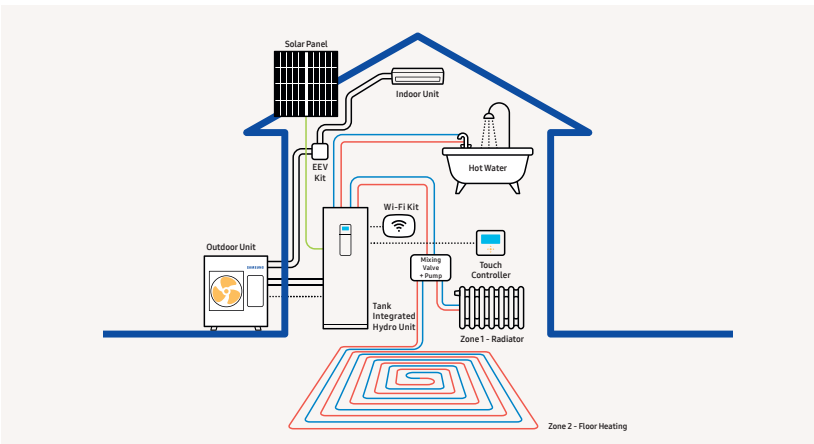
Schematic drawings are for illustrative purposes only. For accurate installation information please consult the technical data book. The selection of the exact product is subject to specific application conditions. Solar panels, underfloor heating panels, radiators and non-integrated components are not provided by Samsung unless specified otherwise. For more detailed product information and technical specifications, please consult the respective product pages of this Product Catalogue.

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

Table of contents

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

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

Samsung Climate Solutions at a glance

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

The solutions that we offer

Cooling

Heating

Hot water

Ventilation
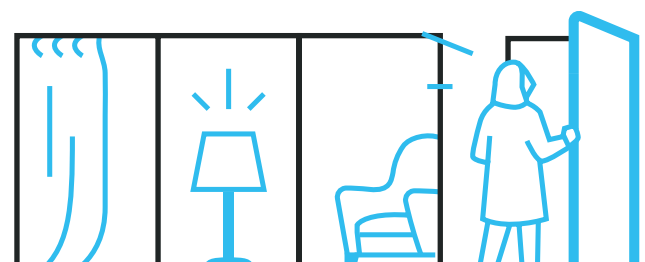
Our market-centric product ranges

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

Services we provide to empower our partners

- Expert training
- Marketing platforms
- Project design
- Spare parts
- Technical support

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.
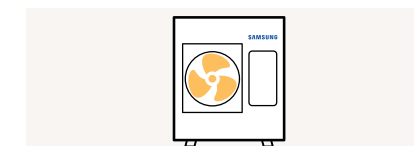
2014
Arrival of the Samsung TDM concept, an all-in-one heat pump solution for heating, cooling and domestic hot water supply.

2015
Introduction of the Samsung 360 Cassette, the world's first circular air conditioner that fits seamlessly into the design of any space.
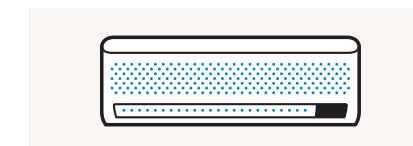
2017
Samsung WindFree™ technology comes onto the market, gently and evenly dispersing fresh air through thousands of micro-holes to limit cold drafts.
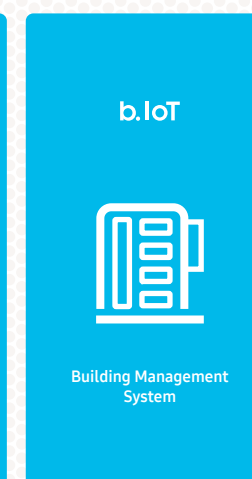
Our flagship innovations that enrich people's lives

WindFree™
WindFree™ Cooling

SmartThings
Wi-Fi Control

b.IoT
Building Management System

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
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

Heat pump combination heaters

Heat pump space heaters
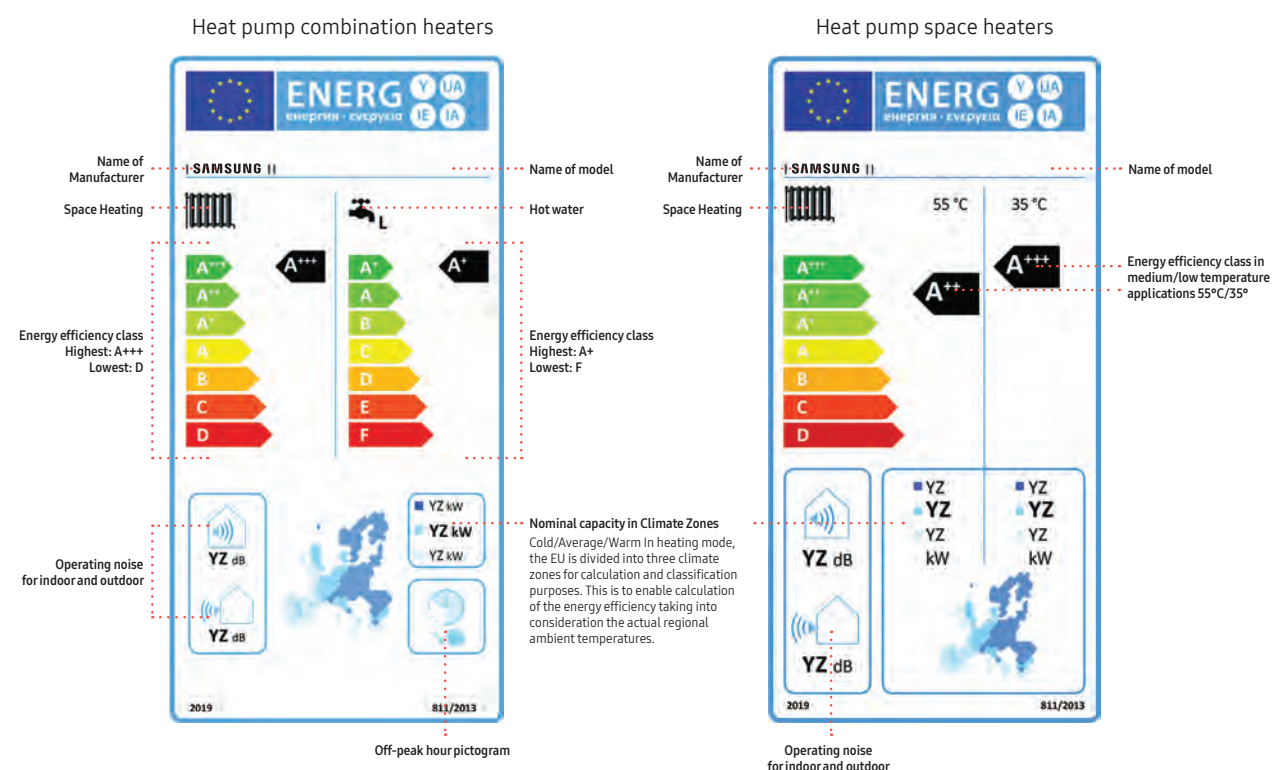
F-Gas regulation

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.

EU phase-down targets

Baseline = the average HFC consumption between 2009 and 2012

Reduction comparison between 2015 and 2030
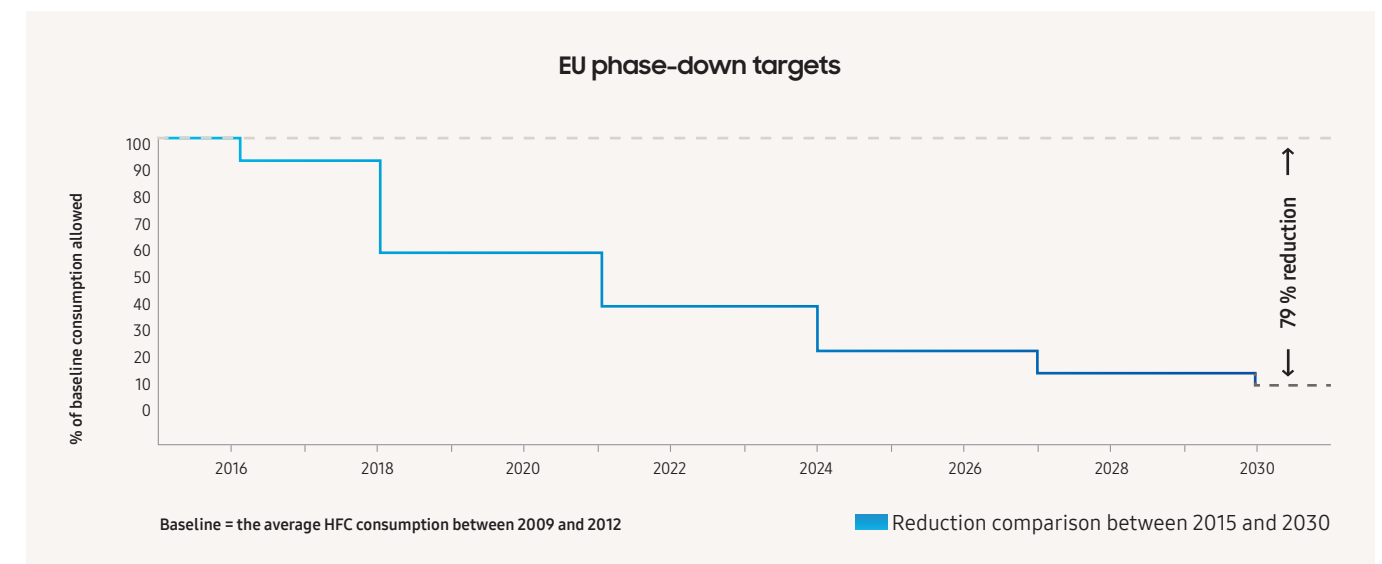
R32 Refrigerant

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.

R410A   R32
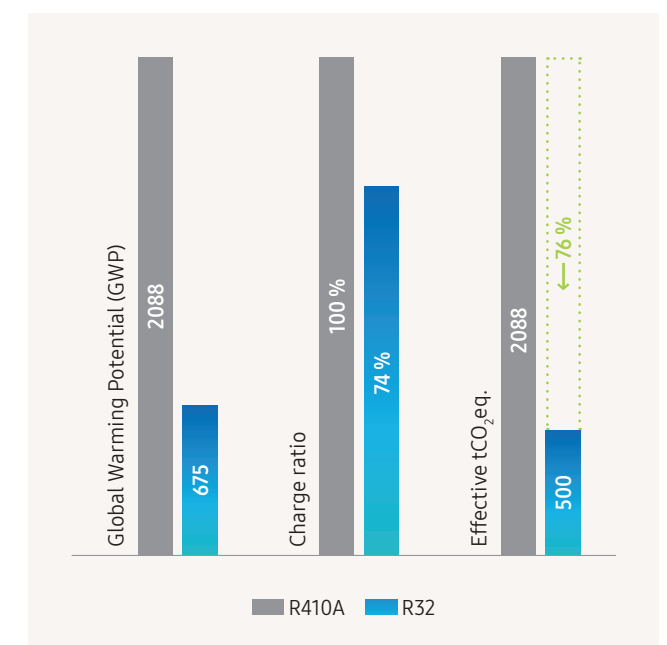
WEEE: Electronic Waste

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

Batteries

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

Packaging

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

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**

Product
Line-up

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) AE200RNWSEG/EU	260 L(1Φ) AE260RNWSEG/EU	260 L(3Φ) AE260RNWSGG/EU	200 L(1Φ) AE200RNWMEG/EU	260 L(1Φ) AE260RNWMEG/EU	260 L(3Φ) AE260RNWMGG/EU	200 L(1Φ) AE200TNWTEH/EU	260 L(1Φ) 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

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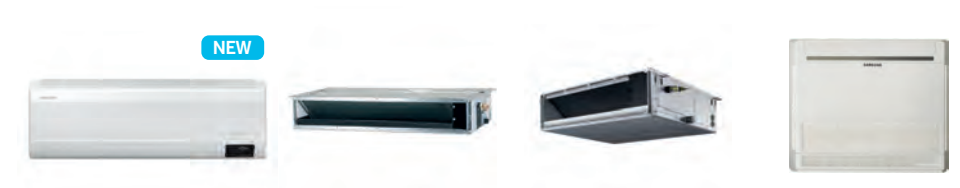
Type		WindFree™ Deluxe	Slim Duct	MSP Duct	Console
Capacity	2.2 kW	●	●		●
	2.8 kW	●	●		●
	3.6 kW	●	●		●
	5.6 kW	●	●		●
	7.1 kW	●		●	
	9.0 kW			●	

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 [NEW IN QZ21]	English, Portuguese, Dutch, Greek, Czech, Slovak (EN, PT, NL, EL, CS, SK)
MWR-WW10KN [NEW IN QZ21]	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	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	•	•

					AE160JNYDEH/EU	AE160JNYDGH/EU
R410A Outdoor Unit	Split	1Φ	AE120JXEDEH/EU	12.0 kW	•	
			AE160JXEDEH/EU	16.0 kW	•	
		3Φ	AE120JXEDGH/EU	12.0 kW		•
			AE160JXEDGH/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				•

Selecting the right heating system

	ClimateHub	
TDM Plus	**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	•	•
3-Way Valve	•	•
2-Way Valve	•	•
Thermostat Control	•	•
PV Integrated	•	•
Smart Grid Ready	•	•
Energy Consumption Monitoring	•	•
Set FSV with SD Card	•	•
Smart Install		
Smart Checking	•	•

	Third Party DHW Tank solutions			
	Mono (R32)	**Split** (R32)	**Split** (R410A)	**TDM Plus** (R410A)
A2W Cooling	•	•	•	•
A2W Heating	•	•	•	•
A2W Domestic Hot Water	•	•	•	•
A2A Cooling				•
Maximum Allowable Indoor unit Connections				up to 7 Indoor unit
Colour Display	•	•		
Low Noise[1]	•	•		
Outing	•	•	•	
Schedule / Holiday Mode	•	•	•	
Emergency Operation	•	•	•	•
Wi-Fi Kit SmartThings	•	•	•	•
Wired Remote Controller	•[2]	•	•	•
Zone Controller	•[3]	•	•[3]	•[3]
Mixing Valve	•	•	•	•
3-Way Valve	•[4]	•[4]	•[4]	•[4]
2-Way Valve	•	•	•	•
Thermostat Control	•	•	•	
PV Integrated	•	•		
Smart Grid Ready		•		
Energy Consumption Monitoring	•	•		
Set FSV with SD Card				
Smart Checking	•	•	•	•

[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	R	N	W	S	E	G
1	2	3	4	5	6	7	8

1	Classification	AE	EHS
2	Capacity		x1/10 kW (3 digits)
			x Litre (3 digits)
3	Year	J	2015
		M	2017
		R	2019
		T	2020
4	Product Type	N	Indoor Unit (NASA)
5	Product Notation	A/X	RAC Wall-Mounted
		J	Console
		L	LSP Duct
		M	MSP Duct
		W	Tank Integrated Hydro Unit
		Y	Wall-Mounted Hydro Unit
6	Feature	D	Standard
		P	
		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	G	R32 Heat Pump
		H	R410A Heat Pump

Outdoor units

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

1	Classification	AE	EHS
2	Capacity		x1/10 kW (3 digits)
3	Year	J	2015
		M	2017
		R	2019
4	Product Type	X	Outdoor Unit (NASA)
5	Product Notation	E	Split
		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

ClimateHub Features

Compact Design

The Samsung ClimateHub solution is built around a compact tank integrated hydro unit, with a large volume domestic hot water tank of either 200 L or 260 L. The compact and modular design makes for straightforward kitchen or utility room integration.

Intuitive Control

Samsung's 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]

[1] The image shows an application example and is for illustrative purposes only. Please always check latest information for understanding availability of language versions.
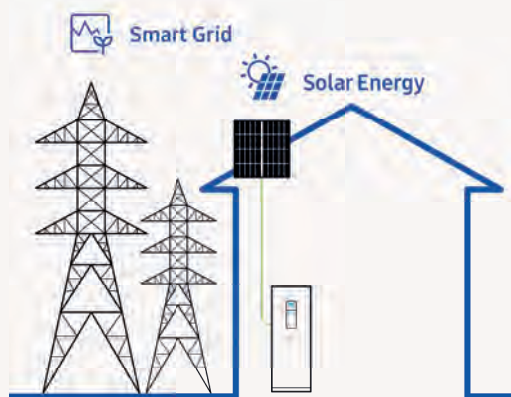
Smart Grid Ready and PV Enabled

A Smart Grid efficiently integrates the behaviour and actions of all the users connected to it. Smart Grid readiness enables users to benefit from an economically efficient and sustainable power supply. Thanks to the PV (Photovoltaic or 'solar' energy) enabled feature, the system can be connected to solar panels, saving energy through renewable sources.[1]

[1] The usage of the PV Enabled feature requires additional third party equipment to be installed.
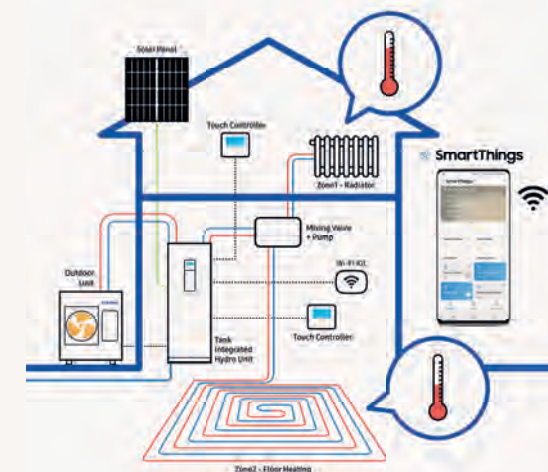
Smart Connectivity

The touch controller enables users to manage different temperature settings per zone, meaning high-temperature radiators and low-temperature floor heating can be utilised efficiently. 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] 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.

Smooth Servicing

With a conveniently placed servicing window and intuitive servicing options available through the use of a Micro SD card or the Samsung S-Checker Mobile App, troubleshooting and start-up can be done easily from the front of the unit.[1]

[1] Please refer to your direct Samsung contact person for more information about the S-Checker Mobile App.
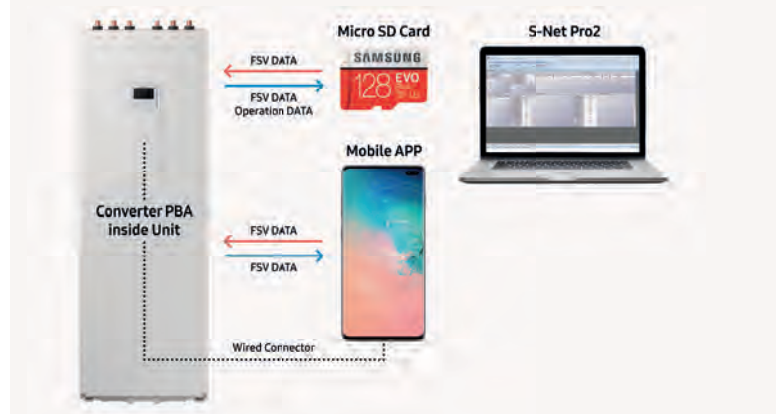
Quiet Operation

In order to meet increasingly strict sound level requirements, Samsung ClimateHub allows to reduce noise levels using the 4-Step Quiet Operation mode[1]. Subject to specific models and particular operation conditions, it is possible to achieve levels as low as 35 dB(A)[2].

[1] ClimateHub Mono and TDM Plus has a 3-Step Quiet Operation mode. [2] Sound pressure levels are subject to execution and operating conditions.
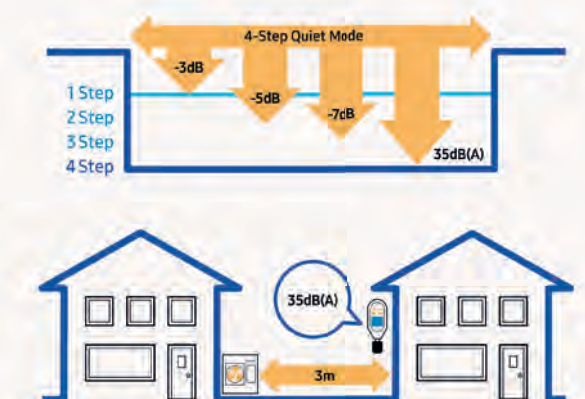
SAMSUNG

WindFree™ Deluxe

SmartThings

Comfortably cool.
Surprisingly still.

Samsung introduces a completely new WindFree™ wall-mounted model for its EHS TDM Plus product range. Equipped with WindFree™ technology, the micro-holes spread fresh air gently and evenly to enhance indoor comfort for ultimate indoor climate convenience.

Step 1
The front panel opens, and Fast Cooling mode cools the room quickly from corner to corner.

Step 2
The set temperature is reached in Fast Cooling mode, and the front panel closes.

Step 3
WindFree™ mode spreads fresh air uniformly through thousands of micro-holes.

WindFree™ Cooling

WindFree™ technology enhances your indoor comfort by using thousands of micro-holes to disperse fresh air uniformly without any unpleasant blasts of cold wind. In WindFree™ mode, air is spread softly and silently, creating a 'Still Air' environment[1] that provides you total well-being day and night.

Easy Control

Samsung WindFree™ is designed to make life easier. It can be operated via wired or wireless controllers that feature advanced functions for a convenient control of indoor climates. Temperatures can also be managed remotely using the SmartThings App[2]. Turning it on and off, selecting the cooling mode or scheduling its operation is just one touch away.

Easy Installation

The WindFree™ Deluxe can be easily mounted through its snap-fit design and roller bracket. The installation process is simplified to fit in effortlessly to the exact position. With an easy-to-remove front grill and a separate cover panel, installers can minimise product damage and reduce service time.

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

Wi-Fi Kit 2.0 – Mobile Remote Control and Monitoring Solution

You can 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[1]

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.

Bixby

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

[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.

Energy monitoring
Allows you to view your daily, weekly, and monthly energy usage at a glance

Energy service
Allows you to quickly check the energy usage of multiple devices in your home

Automation
Operates in your preferred mode according to the user settings

Welcome cooling/heating
Pre-cooling and pre-heating before your arrival at home

Mono

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 continuous heating

Accessories

Touch Controller	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor	Backup Heater (4/6kW)
MWR-WW10N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA	MHC-*00FE

				Indoor Unit	AE200RNWMEG/EU	AE200RNWMEG/EU	AE200RNWMEG/EU	AE200RNWMEG/EU	AE260RNWMEG/EU	AE260RNWMEG/EU	AE260RNWMEG/EU
				Outdoor Unit	AE050RXYDEG/EU	AE080RXYDEG/EU	AE120RXYDEG/EU	AE160RXYDEG/EU	AE080RXYDEG/EU	AE120RXYDEG/EU	AE160RXYDEG/EU
				Controller	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N
System	Operation	Nominal Capacity	Heating A7/W35¹ / A7/W55²	kW	5.0/4.3	8.0/7.1	12.0/11.3	16.0/15.0	8.0/7.1	12.0/11.3	16.0/15.0
			Cooling A35/W18¹	kW	5.0	7.5	12.0	14.0	7.5	12.0	14.0
		Power Input (Nominal)	Heating A7/W35¹ / A7/W55²	kW	1.03/1.52	1.77/2.53	2.65/3.73	3.62/5.18	1.77/2.53	2.65/3.73	3.62/5.18
			Cooling A35/W18¹	kW	1.14	1.90	2.77	3.28	1.90	2.77	3.28
		COP (Nominal Heating) A7/W35¹ / A7/W55²		W/W	4.85/2.83	4.52/2.81	4.53/3.03	4.42/2.90	4.52/2.81	4.53/3.03	4.42/2.90
		EER (Nominal Cooling) A35/W18¹		W/W	4.39	3.95	4.33	4.27	3.95	4.33	4.27
		SCOP LWT 35°C/ 55°C		W/W	4.46/3.2	4.44/3.23	4.69/3.51	4.48/3.53	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/ 125	175/ 126	185/ 138	176/ 138	175/ 126	185/ 138	176/ 138
		Seasonal Space Heating Eff. class * LWT 35°C/ 55°C		-	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
		Current	MCA	A	16.00	22.00	28.00	32.00	22.00	28.00	32.00
			MFA	A	20.00	27.50	35.00	40.00	27.50	35.00	40.00
		Water Flow Rate	Low / Medium temperature	L/min	14.4/7.8	23.1/12.8	34.6/20.4	46.2/27.1	23.1/12.8	34.6/20.4	46.2/27.1
		Leaving Water Temperature³	Heating	°C	15~65	15~65	15~65	15~65	15~65	15~65	15~65
			Cooling	°C	5~25	5~25	5~25	5~25	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	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
		Water Tank Volume		litres	200	200	200	200	260	260	260
		Declared Load Profile		L/XL	L	L	L	L	XL	XL	XL
		Average water heating efficiency ηwh		ETA%	115	115	110	110	123	117	117
		Average Energy Efficiency Class		-	A	A	A	A	A	A	A
	Sound	Sound Pressure⁴	Heating Std	dB(A)	26	26	30	30	26	30	30
			Cooling Std	dB(A)	26	26	30	30	26	30	30
		Sound Power	Heating Std	dB(A)	40	40	44	44	40	44	44
	Heater	Back-up heater Capacity	Default (Option)	kW	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)
	Piping	Water Pipe (Space Heating)	Inlet/ Outlet	Φ, mm	28/28	28/28	28/28	28/28	28/28	28/28	28/28
		Water pipe (DHW)	Inlet/ Outlet	Φ, mm	22/22	22/22	22/22	22/22	22/22	22/22	22/22
	Dimensions	Net Weight		kg	130.0	130.0	130.0	130.0	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	595 x 1,800 x 700	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	1Φ, 220~240 V, 50 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	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Base Heater	Capacity		kW	-	0.15	0.15	0.15	0.15	0.15	0.15
	Sound	Sound Pressure⁴	Heating Std	dB(A)	45	48	50	52	48	50	52
			Cooling Std	dB(A)	45	48	50	54	48	50	54
		Sound Power	Heating Std	dB(A)	61	63	64	66	63	64	66
	Dimensions	Net Weight		kg	58.5	76.0	110.0	110.0	76.0	110.0	110.0
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330	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		tCO2e	0.68	0.78	1.49	1.49	0.78	1.49	1.49
				kg	1.00	1.15	2.20	2.20	1.15	2.20	2.20
	Piping	Water Pipe (Space Heating)	Inlet/ Outlet	Φ, mm	28/28	28/28	28/28	28/28	28/28	28/28	28/28
	Operation	Ambient Temperature	Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
			Cooling	°C	10~46	10~46	10~46	10~46	10~46	10~46	10~46
			DHW	°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43

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

¹A2W 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].

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

³65°C down to +10°C (max. 60°C down to -5°C)

⁴Sound 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.

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

Specifications

ClimateHub Mono (Continued) (R32)

					AE260RNWMGG/EU	AE260RNWMGG/EU	AE260RNWMGG/EU
		Indoor Unit					
		Outdoor Unit			AE080RXYDGG/EU	AE120RXYDGG/EU	AE160RXYDGG/EU
		Controller			MWR-WW10N	MWR-WW10N	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		tCO₂e	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

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

*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

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

Accessories

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

		Outdoor Unit				AE050RXYDEG/EU	AE080RXYDEG/EU	AE120RXYDEG/EU	AE160RXYDEG/EU	AE080RXYDGG/EU	AE120RXYDGG/EU	AE160RXYDGG/EU
		Control Kit				MIM-E03CN	MIM-E03CN	MIM-E03CN	MIM-E03CN	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	16.0/15.0	8.0/7.1	12.0/11.3	16.0/15.0
			Cooling A35/W18[1]		kW	5.0	7.5	12.0	14.0	7.5	12.0	14.0
		Power Input (Nominal)	Heating A7/W35[1] / A7/W55[2]		kW	1.03/1.52	1.77/2.53	2.65/3.73	3.62/5.18	1.77/2.53	2.65/3.73	3.62/5.18
			Cooling A35/W18[1]		kW	1.14	1.90	2.77	3.28	1.90	2.77	3.28
		COP (Nominal Heating) A7/W35[1] / A7/W55[2]			W/W	4.85/2.83	4.52/2.81	4.55/3.03	4.42/2.90	4.52/2.81	4.53/3.03	4.42/2.90
		EER (Nominal Cooling) A35/W18[1]			W/W	4.39	3.95	4.33	4.27	3.95	4.33	4.27
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C			ETA%	175/ 125	175/ 126	185/ 138	176/ 138	175/ 126	185/ 138	176/ 138
		Seasonal space heating eff. class** LWT 35°C/ 55°C			-	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
		Current	MCA		A	16.00	22.00	28.00	32.00	10.00	10.00	12.00
			MFA		A	20.00	27.50	35.00	40.00	16.10	16.10	16.10
		Leaving Water Temperature[2]	Heating		°C	15~65	15~65	15~65	15~65	15~65	15~65	15~65
			Cooling		°C	5~25	5~25	5~25	5~25	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	1Φ, 220~240 V, 50 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	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Base Heater	Capacity			kW	-	0.15	0.15	0.15	0.15	0.15	0.15
	Sound	Sound Pressure[4]	Heating Std		dB(A)	45	48	50	52	48	50	52
			Cooling Std		dB(A)	45	48	50	54	48	50	54
		Sound Power	Heating Std		dB(A)	61	63	64	66	63	64	66
	Dimensions	Net Weight			kg	58.5	76.0	110.0	110.0	75.0	111.0	111.0
		Net Dimensions (WxHxD)			mm	880 x 798 x 310	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330
	Piping	Water Pipe	Inlet/ Outlet		Φ, mm	25/ 25	25/ 25	25/ 25	25/ 25	25/ 25	25/ 25	25/ 25
	Refrigerant	Type				R32 (Fluorinated greenhouse gas, GWP=675)			R32 (Fluorinated greenhouse gas, GWP=675)			
		Factory Charging			tCO₂e	0.68	0.78	1.49	1.49	0.78	1.49	1.49
					kg	1.00	1.15	2.20	2.20	1.15	2.20	2.20
	Operation	Ambient Temperature	Heating		°C	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
			Cooling		°C	10~46	10~46	10~46	10~46	10~46	10~46	10~46
			DHW		°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

*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.

Dimensional Drawings

Mono Tank Integrated Hydro Unit

AE200/260RNWG/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
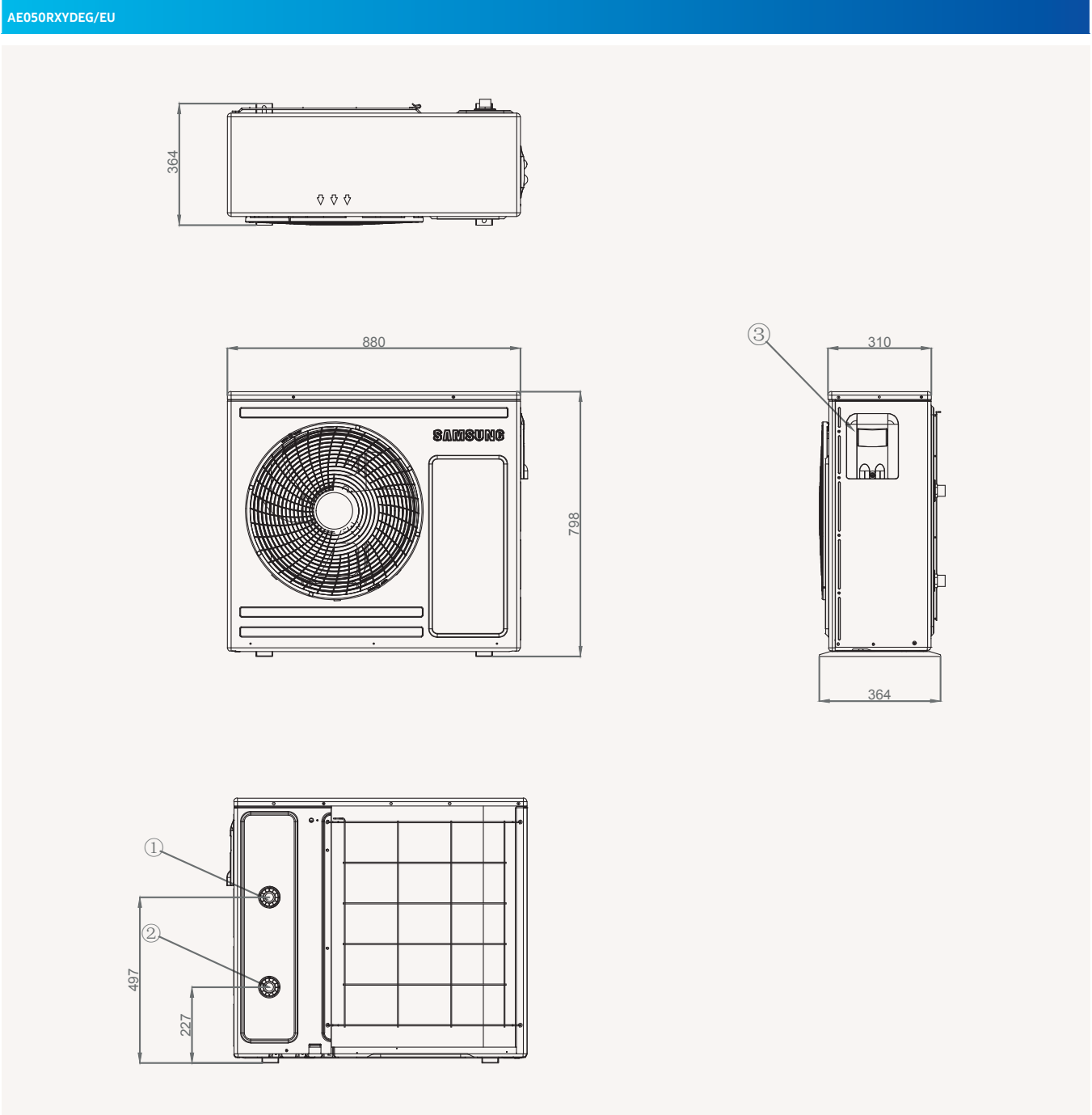
AE050RXYDEG/EU

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
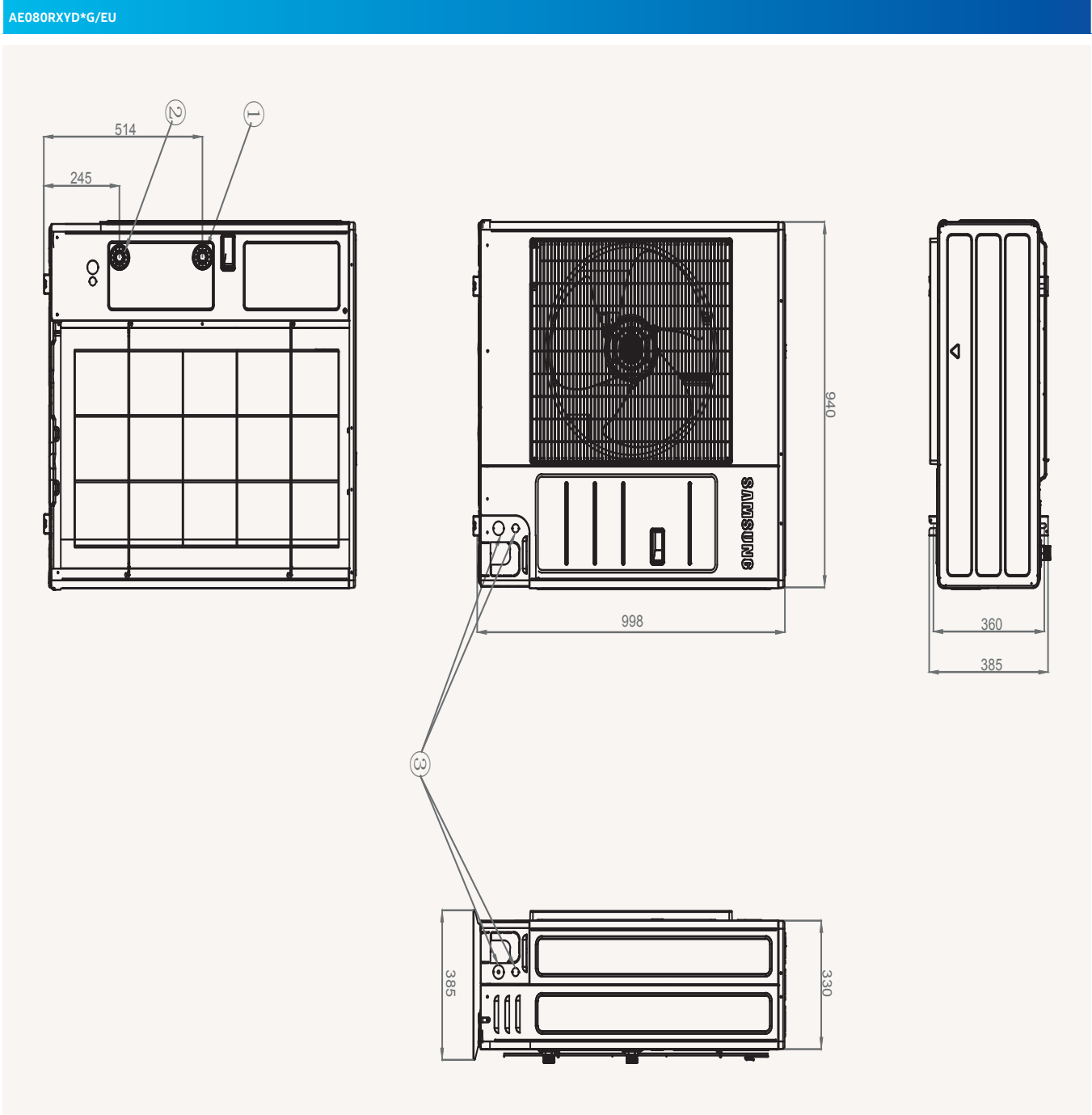
AE080RXYD*G/EU

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
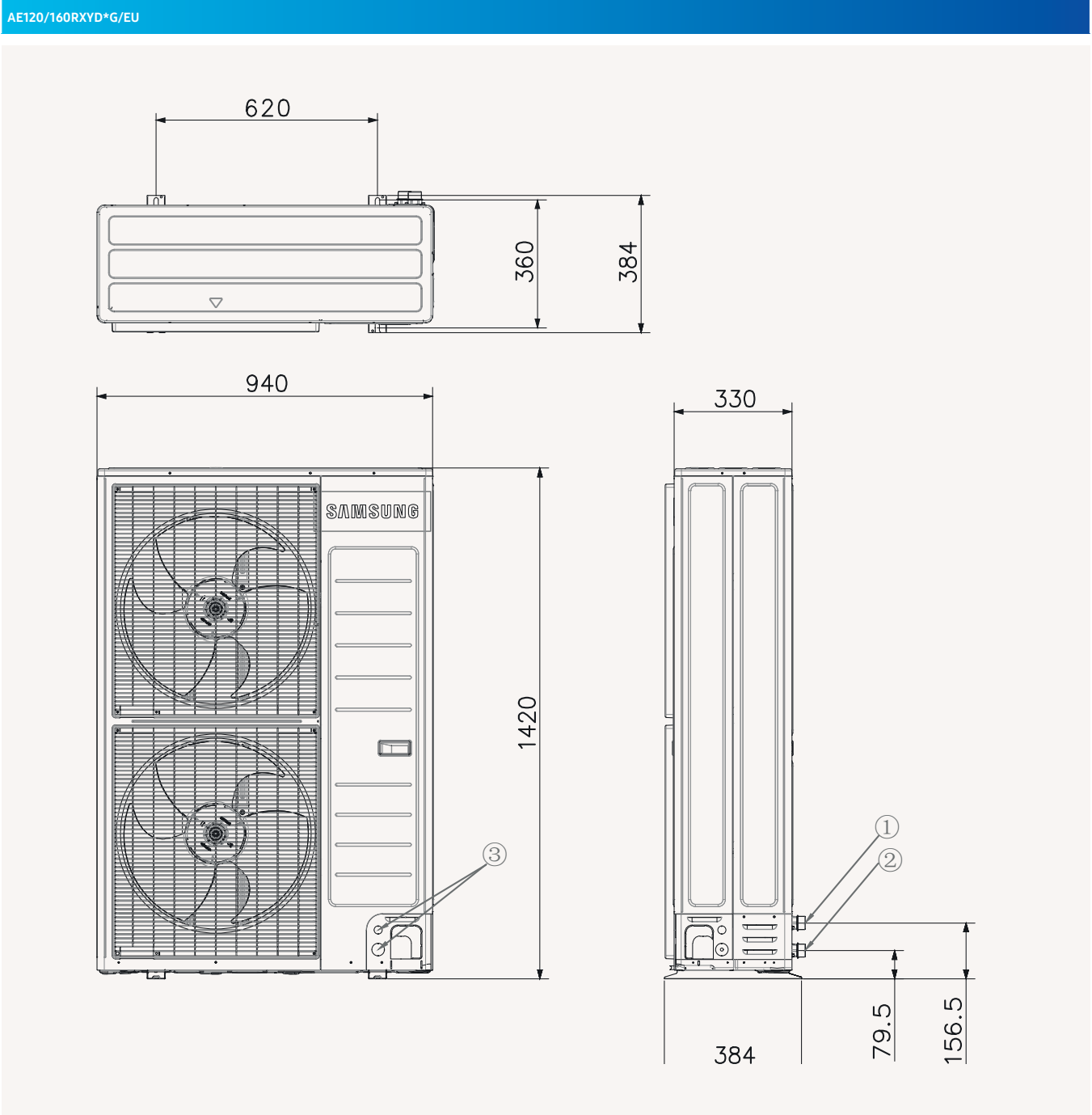
AE120/160RXYD*G/EU

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

2−R2.5
2−R4.0
264
2−⌀5.0
371
353
359
289
110
87
23
①
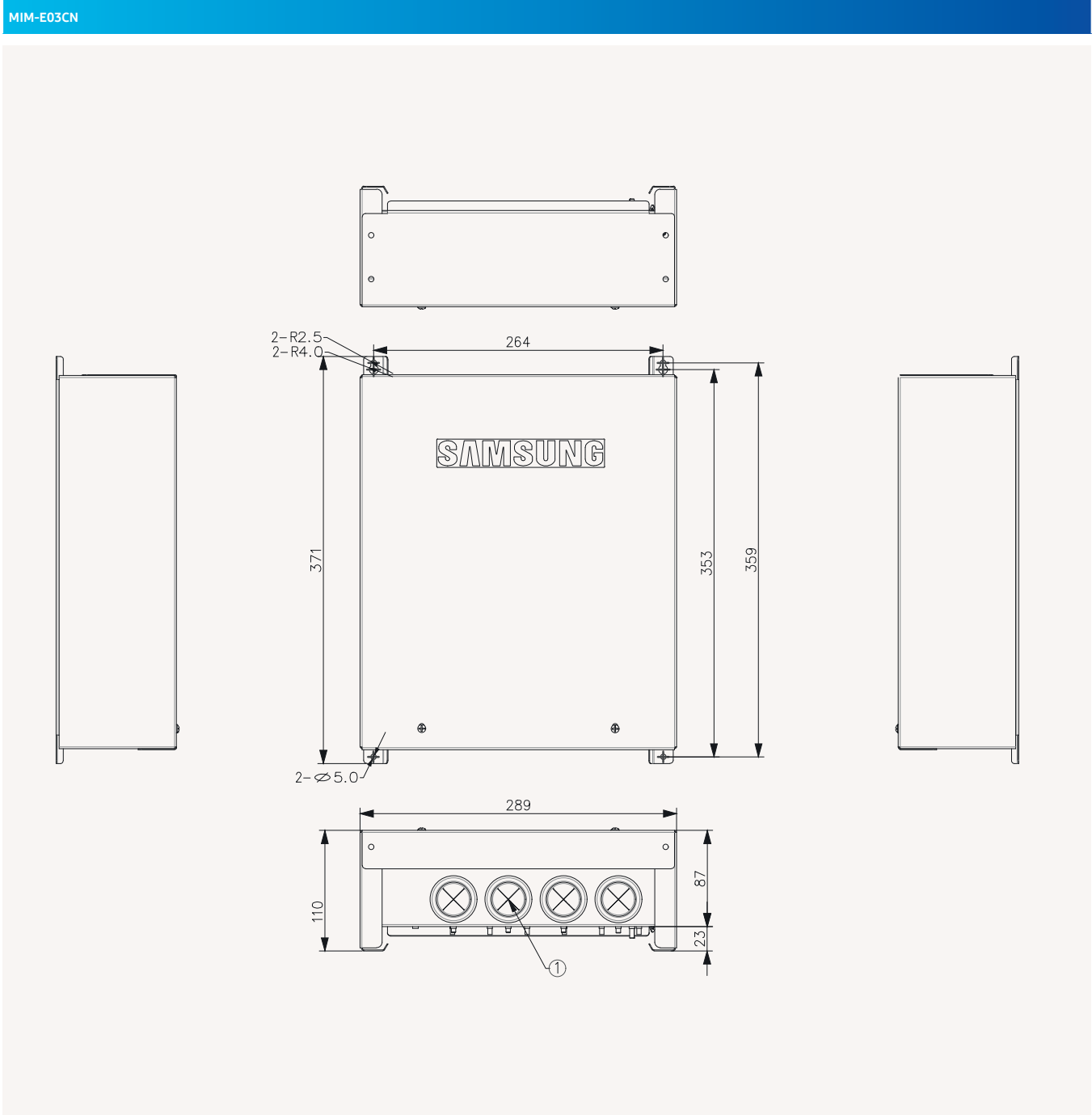
NO	Name
1	Conduit Holes for Wiring (Rubber)

Split

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)

Touch Controller	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor	Backup Heater (4/6kW)
MWR-WW10N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA	MHC-*00FE

			Indoor Unit →	AE200RNWSEG/EU	AE200RNWSEG/EU	AE200RNWSEG/EU	AE260RNWSEG/EU	AE260RNWSEG/EU	AE260RNWSEG/EU	AE260RNWSGG/EU
			Outdoor Unit →	AE040RXEDEG/EU	AE060RXEDEG/EU	AE090RXEDEG/EU	AE040RXEDEG/EU	AE060RXEDEG/EU	AE090RXEDEG/EU	AE090RXEDGG/EU
			Controller →	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N	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	4.4/3.9	6.0/5.2	9.0/8.0	9.0/8.0
		Nominal Capacity — Cooling A35/W18[1]	kW	5.0	6.5	8.7	5.0	6.5	8.7	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	0.85/1.32	1.22/1.81	1.87/2.73	1.87/2.73
		Power Input (Nominal) — Cooling A35/W18[1]	kW	1.09	1.47	2.11	1.09	1.47	2.11	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	5.20/2.95	4.92/2.87	4.81/2.93	4.81/2.93
		EER (Nominal Cooling) A35/W18[1]	W/W	4.59	4.42	4.12	4.59	4.42	4.12	4.12
		SCOP LWT 35°C/ 55°C	W/W	4.58/3.25	4.58/3.31	4.45/3.24	4.58/3.25	4.58/3.31	4.45/3.24	4.45/3.24
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C	ETA%	180/127	180/129	175/127	180/127	180/129	175/127	175/127
		Average Seasonal space heating eff. class ** LWT 35°C/ 55°C	-	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
		Current — MCA	A	16.00	16.00	22.00	16.00	16.00	22.00	10.00
		Current — MFA	A	20.00	20.00	27.50	20.00	20.00	27.50	16.10
		Leaving Water Temperature[3] — Heating	°C	15~65	15~65	15~65	15~65	15~65	15~65	15~65
		Leaving Water Temperature[3] — Cooling	°C	5~25	5~25	5~25	5~25	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	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
		Water Tank Volume	litres	200	200	200	260	260	260	260
		Declared Load Profile	L/XL	L	L	L	XL	XL	XL	XL
		Average water heating efficiency ηwh	ETA%	120	120	119	123	123	123	123
		Average Energy Efficiency Class		A+	A+	A+	A+	A+	A+	A+
	Heater	Back-up heater Capacity Default (Option)	kW	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)	6
	Sound	Sound Pressure[4] — Heating Std	dB(A)	26	26	26	26	26	26	26
		Sound Pressure[4] — Cooling Std	dB(A)	26	26	26	26	26	26	26
		Sound Power — Heating Std	dB(A)	40	40	40	40	40	40	40
	Piping	Water pipe (Space Heating) Inlet/Outlet	Φ, mm	28/28	28/28	28/28	28/28	28/28	28/28	28/28
		Water pipe (DHW) Inlet/Outlet	Φ, mm	22/22	22/22	22/22	22/22	22/22	22/22	22/22
	Dimensions	Net Weight	kg	136	136	136	146.0	146.0	146.0	146.0
		Net Dimensions (WxHxD)	mm	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700	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	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	3Φ, 380~415 V, 50 Hz
	Compressor	Type	-	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	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)	44	47	49	44	47	49	49
		Sound Pressure[4] — Cooling Std	dB(A)	46	47	49	46	47	49	49
		Sound Pressure[4] — Night Mode	dB(A)	<35	35	35	<35	35	35	35
		Sound Power — Heating Std	dB(A)	58	60	64	58	60	64	64
	Dimensions	Net Weight	kg	46.5	46.5	73.0	46.5	46.5	73.0	72.0
		Net Dimensions (WxHxD)	mm	880 x 638 x 310	880 x 638 x 310	940 x 998 x 330	880 x 638 x 310	880 x 638 x 310	940 x 998 x 330	940 x 998 x 330
	Refrigerant	Type	–	R32 (Fluorinated greenhouse gas, GWP=675)			R32 (Fluorinated greenhouse gas, GWP=675)			
		Factory Charging	tCO₂e	0.81	0.81	0.95	0.81	0.81	0.95	0.95
		Factory Charging	kg	1.2	1.2	1.4	1.2	1.2	1.4	1.4
	Piping	Piping Connections — Liquid Pipe	Φ, mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
		Piping Connections — Gas Pipe	Φ, mm (inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
		Piping length (ODU-IDU)[5] Max.[Equiv.]	m	30.00	30.00	35.00	30.00	30.00	35.00	35.00
		Level difference (IDU-IDU)[5] Max.	m	20.00	20.00	20.00	20.00	20.00	20.00	20.00
	Operation	Ambient Temperature — Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
		Ambient Temperature — Cooling	°C	10~46	10~46	10~46	10~46	10~46	10~46	10~46
		Ambient Temperature — DHW	°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

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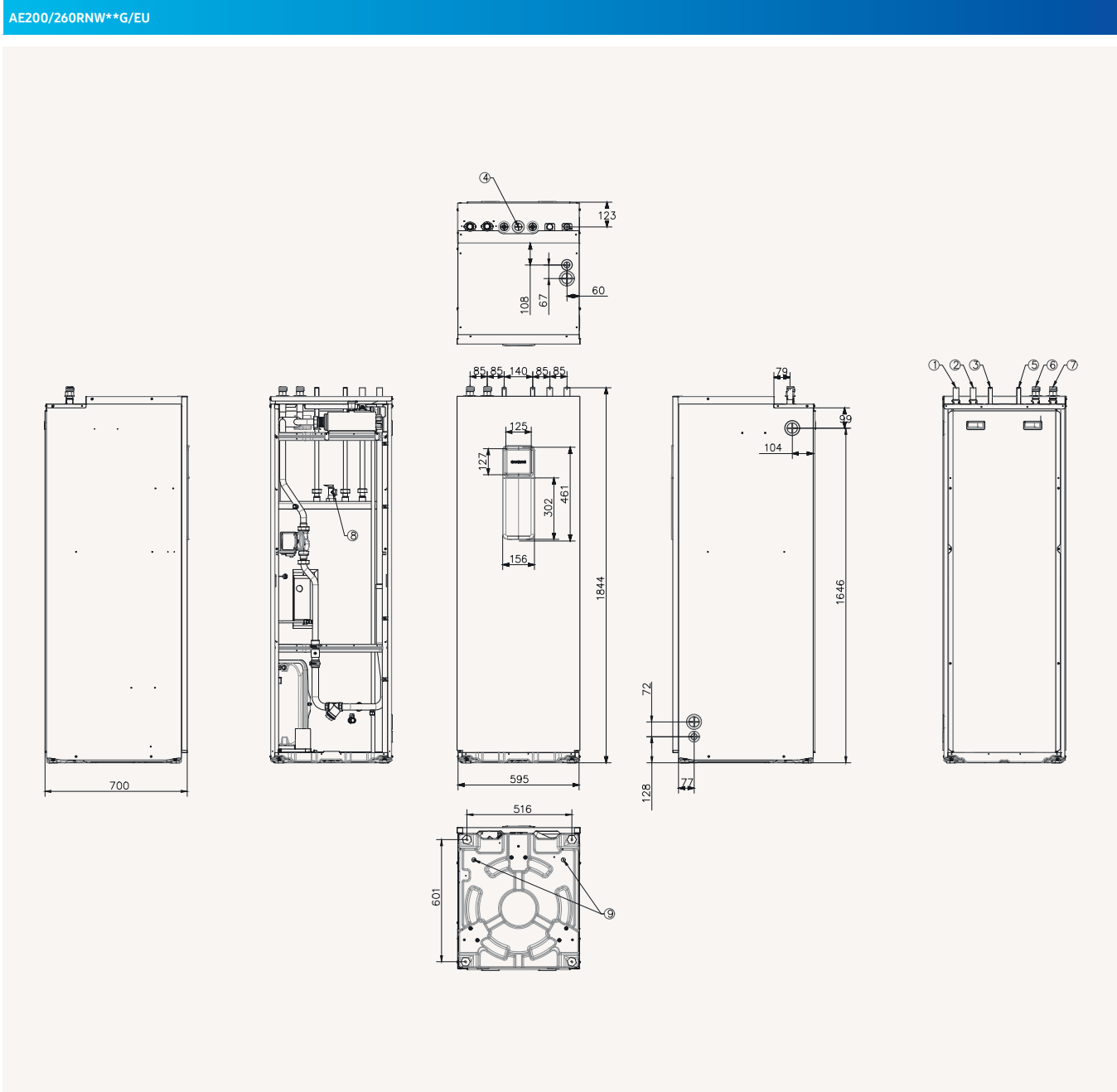
[2] A2W Condition : (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C[DB]/6°C[WB].

[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
- Compatible 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

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

					Indoor Unit	AE090RNYDEG/EU	AE090RNYDEG/EU	AE090RNYDEG/EU	AE090RNYDGG/EU
					Outdoor Unit	AE040RXEDEG/EU	AE060RXEDEG/EU	AE090RXEDEG/EU	AE090RXEDGG/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	9.0/8.0
			Cooling A35/W18[1]	kW		5.0	6.5	8.7	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	1.87/2.73
			Cooling A35/W18[1]	kW		1.09	1.47	2.11	2.11
		COP (Nominal Heating) A7/W35[1]		W/W		5.20/2.95	4.92/2.87	4.81/2.93	4.81/2.93
		EER (Nominal Cooling) A35/W18[1]		W/W		4.59	4.42	4.12	4.12
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%		180/ 127	180/ 129	175/ 127	175/127
		Seasonal Space Heating Eff. Class LWT 35°C/ 55°C		-		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
		Current	MCA	A		16.00	16.00	22.00	10.00
			MFA	A		20.00	20.00	27.50	16.10
		Leaving Water Temperature[2]	Heating	°C		15~65	15~65	15~65	15~65
			Cooling	°C		5~25	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	3Φ, 2, 380~415 V, 50 Hz
	Heater	Back-up heater Capacity	Default (Option)	kW		4	4	4	6
	Sound	Sound Pressure[3]	Heating Std	dB(A)		26	26	26	26
			Cooling Std	dB(A)		26	26	26	26
		Sound Power	Heating Std	dB(A)		40	40	40	40
	Dimensions	Net Weight		kg		45,0	45,0	45,0	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
	Piping	Water pipe	Inlet/Outlet	Φ, inch		1+1/4"	1+1/4"	1+1/4"	1+1/4"
Outdoor unit	Compressor	Type		-		BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Base Heater	Capacity		kW		-	-	0.15	0.15
	Sound	Sound Pressure[3]	Heating Std	dB(A)		44	47	49	49
			Cooling Std	dB(A)		46	47	49	49
		Sound Power	Heating Std	dB(A)		58	60	64	64
	Dimensions	Net Weight		kg		46.5	46.5	73.0	72.0
		Net Dimensions (WxHxD)		mm		880 x 638 x 310	880 x 638 x 310	940 x 998 x 330	940 x 998 x 330
	Refrigerant	Type				R32 (Fluorinated greenhouse gas, GWP=675)			R32 (Fluorinated greenhouse gas, GWP=675)
		Factory Charging		tCO2e		1.2	1.2	1.4	1.4
				kg		0.81	0.81	0.95	0.95
	Piping	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)		15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
		Piping length (ODU-IDU)[4]	Max.[Equiv.]	m		30	30	35	35
		Level difference (IDU-IDU)[4]	Max.	m		20	20	20	20
		Chargeless Length		Φ, mm		15	15	15	15
	Operation	Ambient Temperature	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

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

*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

Split

Specifications

Split with Third Party DHW Tank (R410A)

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

Accessories

EHS Controller (included)	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor
MWR-WW00N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA

					Indoor Unit	AE160JNYDEH/EU	AE160JNYDGH/EU	AE160JNYDEH/EU	AE160JNYDGH/EU
					Outdoor Unit	AE120JXEDEH/EU	AE120JXEDGH/EU	AE160JXEDEH/EU	AE160JXEDGH/EU
System	Operation	Nominal Capacity	Heating A7/W35[1]	kW		12.0	12.0	16.0	16.0
			Cooling A35/W18[1]	kW		12.0	12.0	15.0	15.0
		Power Input (Nominal)	Heating A7/W35[1]	kW		2.59	2.59	3.76	3.76
			Cooling A35/W18[1]	kW		3.10	3.10	4.14	4.14
		COP (Nominal Heating) A7/W35[1]		W/W		4.63	4.63	4.26	4.26
		EER (Nominal Cooling) A35/W18[1]		W/W		3.87	3.87	3.62	3.62
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%		184/ 107	184/ 107	173/ 115	173/ 115
		Seasonal Space Heating Eff. Class LWT 35°C/ 55°C		-		A+++ / A+	A+++ / A+	A++ / A+	A++ / A+
		Current	MCA	A		28.00	10.00	32.00	12.00
			MFA	A		35.00	16.10	37.50	16.10
		Leaving Water Temperature	Heating	°C		25~55	25~55	25~55	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[2]		-		●	●	●	●
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	3Φ, 2, 380~415 V, 50 Hz
	Heater	Capacity		kW		6	6	6	6
	Sound	Sound Pressure[3]	Heating Std	dB(A)		33	33	33	33
			Cooling Std	dB(A)		33	33	33	33
		Sound Power	Heating Std	dB(A)		47	47	47	47
	Piping	Water pipe	Inlet/Outlet	Φ, inch		1+1/4"	1+1/4"	1+1/4"	1+1/4"
	Dimensions	Net Weight		kg		45.0	46.5	45.0	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	Compressor	Type		-		BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary	BLDC Twin Rotary
	Base Heater	Capacity		kW		0.15	0.15	0.15	0.15
	Sound	Sound Pressure[3]	Heating Std	dB(A)		50	50	52	52
			Cooling Std	dB(A)		50	50	54	54
		Sound Power	Heating Std	dB(A)		64	64	66	66
	Dimensions	Net Weight		kg		100.0	101.5	100.0	101.5
		Net Dimensions (WxHxD)		mm		940 x 1,420 x 330	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)			R410A (Fluorinated greenhouse gas, GWP=2,088)
		Factory Charging		tCO$_2$e		6.22	6.22	6.22	6.22
				kg		2.98	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")	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)[4]	Max.[Equiv.]	m		50	50	50	50
		Level difference (IDU-IDU)[4]	Max.	m		30	30	30	30
		Chargeless Length		Φ, mm		15	15	15	15
	Operation	Ambient Temperature	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

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

[1] A2W Conditions : (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] Not provided by Samsung.

[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
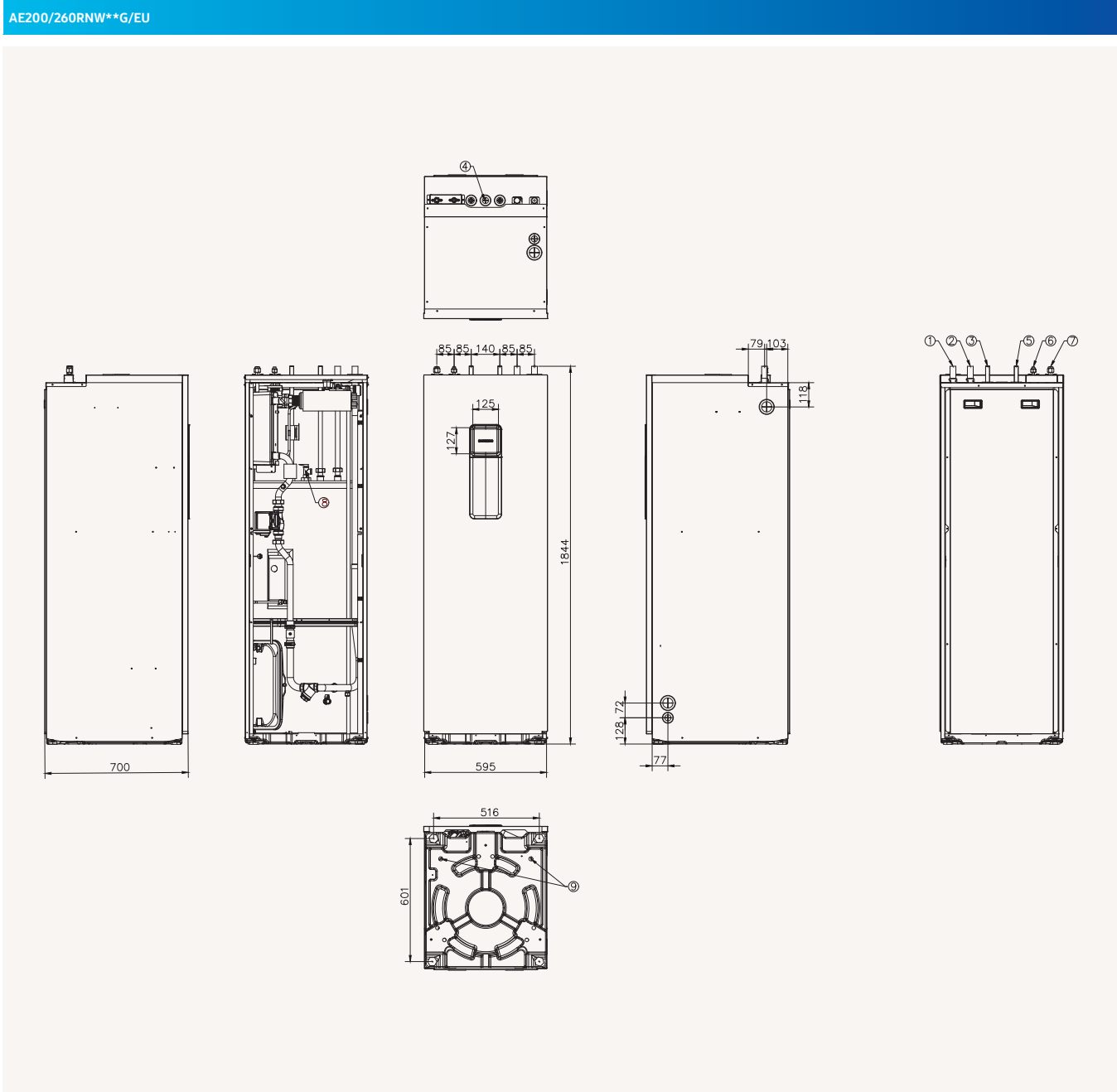
NO	Name	Description	
		AE200RNWSEG/EU	AE260RNWS*G/EU
1	Space heating Inlet	Ø28	Ø28
2	Space heating Outlet	Ø28	Ø28
3	DHW Inlet	Ø22	Ø22
4	Secondary water return	N/A	Ø22
5	DHW Outlet	Ø22	Ø22
6	Refrigerant liquid pipe	Ø9.52	Ø9.52
7	Refrigerant gas pipe	Ø15.88	Ø15.88
8	T/P v/v	Female PT1/2"	Female PT1/2"
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
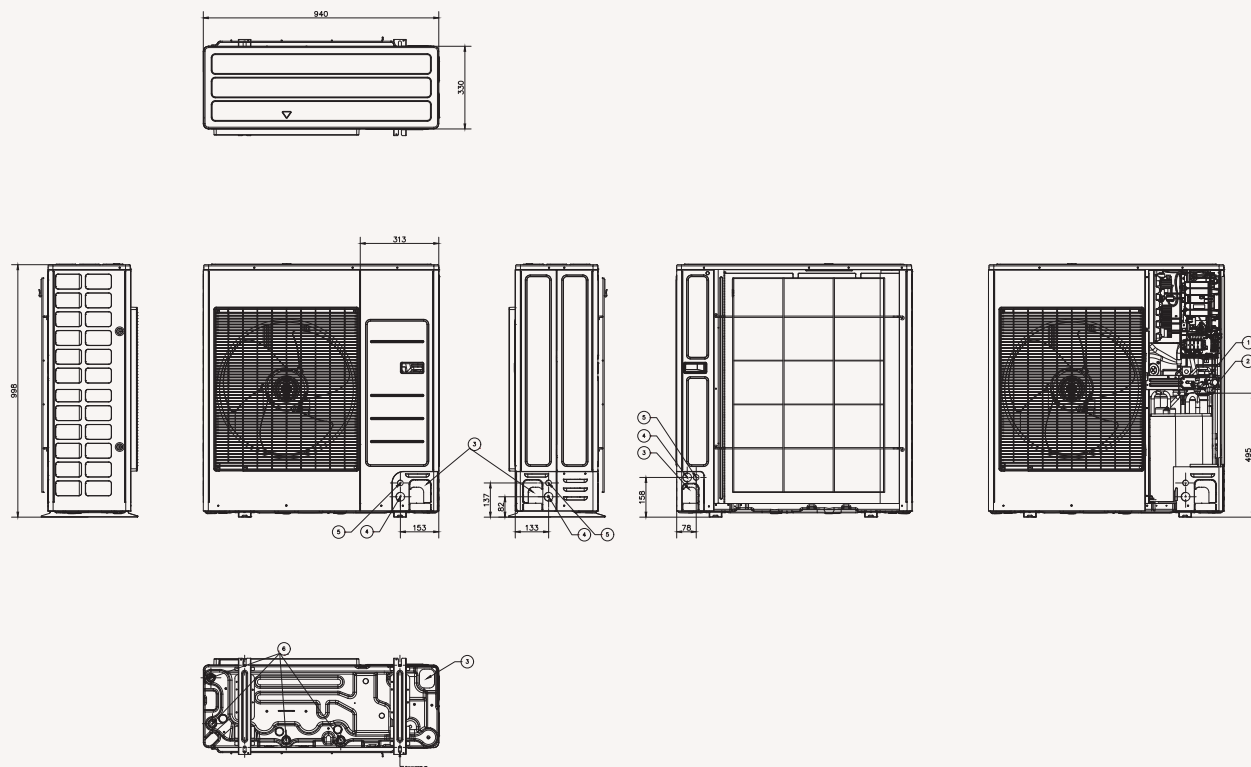
NO	Name	Description
1	Refrigerant gas pipe	Φ6.35(1/4)
2	Refrigerant liquid pipe	Φ15.88(5/8)
3	Piping intake knockout hole	Front / Side / Rear / Bottom
4	Power wiring conduit	Front / Side / Rear , Φ34 [1-3/8]
5	Communication wiring conduit	Front / Side / Rear , Φ22 [7/8]
6	Drain Hole	Connect with the provided drain plug

Split Outdoor

AE120/160JXED*H/EU
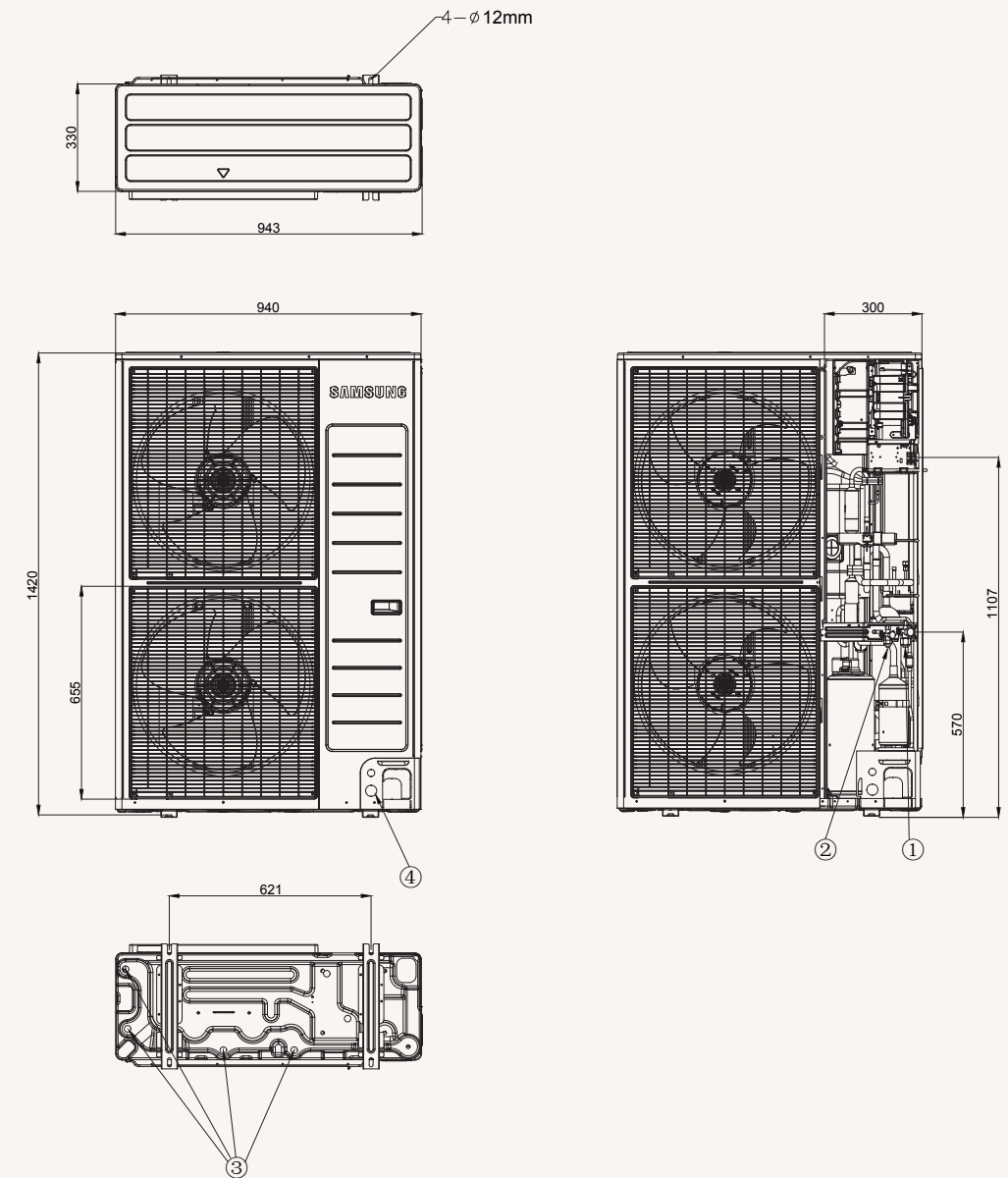
NO	Name	Description
1	Refrigerant gas pipe	φ15.88
2	Refrigerant liquid pipe	φ9.52
3	Drain Hole	Connect with the provided drain plug
4	Power wiring conduit	N/A

Dimensional Drawings

Split Wall-Mounted Hydro Unit

AE090RNYD*G/EU, AE160JNYD*H/EU
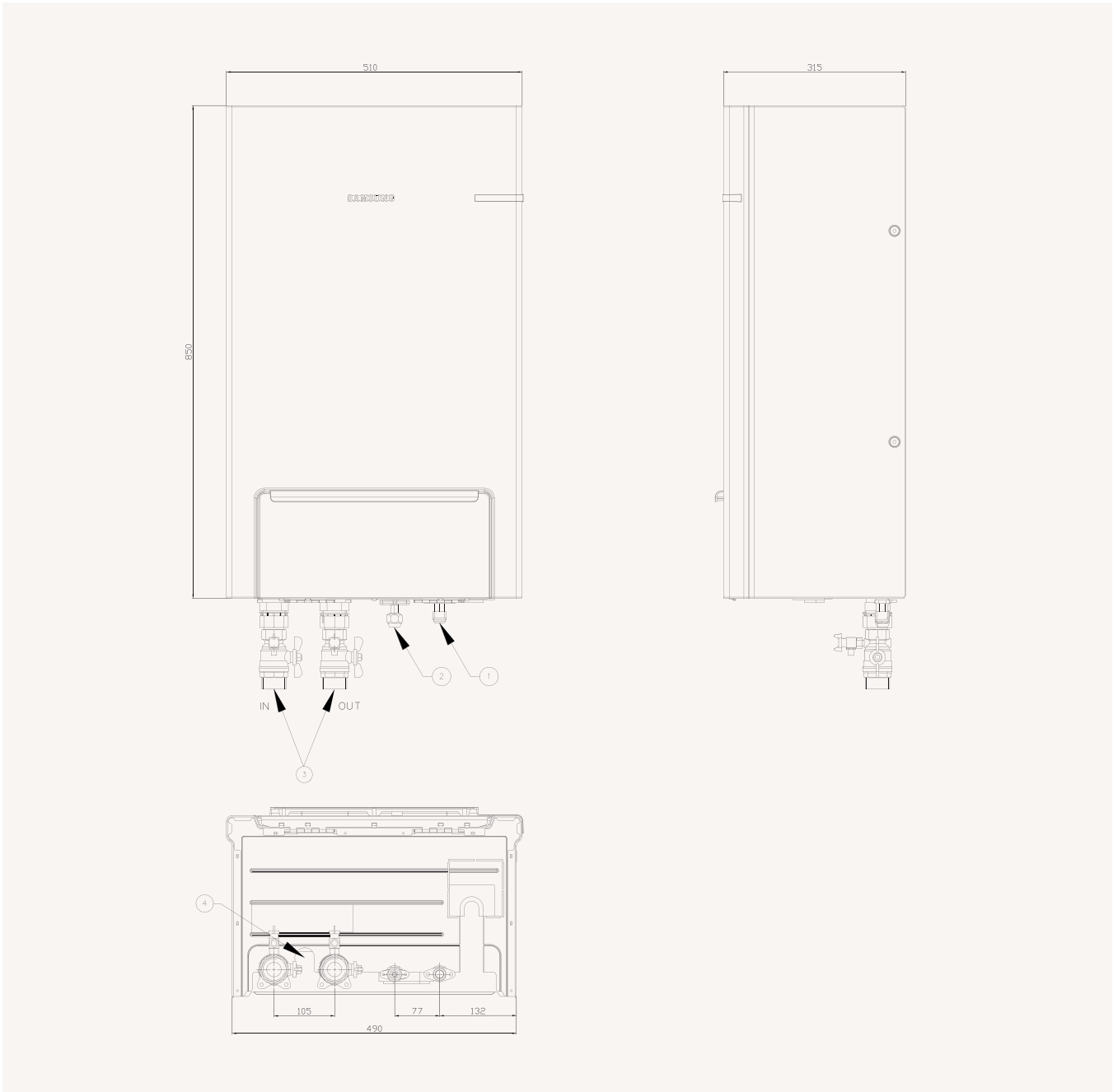
NO	Name
1	Refrigerant gas pipe
2	Refrigerant liquid pipe
3	Water pipe inlet/outlet
4	Drain Hose Connector

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 continuous heating

Accessories

	Touch Controller	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor	Backup Heater (4/6kW)
	MWR-WW10N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA	MHC-*00FE

Specifications

Indoor Unit			AE200TNWTEH/EU	AE200TNWTEH/EU	AE200TNWTEH/EU	AE200TNWTEH/EU	AE260TNWTEH/EU	AE260TNWTEH/EU
Outdoor Unit			AE044MXTPEH/EU	AE066MXTPEH/EU	AE090MXTPEH/EU	AE090MXTPGH/EU	AE044MXTPEH/EU	AE066MXTPEH/EU
Controller			MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N
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	4.4/ 3.8	6.6/ 4.8
	Cooling A35/W18[1]	kW	5.1	6.7	8.0	8.0	5.1	6.7
	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	0.93/ 1.37	1.47/ 1.85
	Cooling A35/W18[1]	kW	1.03	1.48	1.85	1.86	1.03	1.48
	COP (Nominal Heating) A7/W35[1] / A7/W55[2]	W/W	4.73/ 2.80	4.49/ 2.59	4.25/ 2.72	4.25/ 2.69	4.73/ 2.80	4.49/ 2.59
	EER (Nominal Cooling) A35/W18[1]	W/W	4.95	4.53	4.32	4.30	4.95	4.53
	SCOP LWT 35°C/ 55°C	W/W	4.41/ 2.83	4.41/ 2.96	4.42/ 3.01	4.44/ 2.86	4.41/ 2.83	4.41/ 2.96
	Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C	ETA%	173/ 110	173/ 115	174/ 117	175/ 111	173/ 110	173/ 115
	Average Seasonal space heating eff. class ** LWT 35°C/ 55°C	-	A++ / A+	A++ / A+	A++ / A+	A+++ / A+	A++ / A+	A++ / A+
	Current — MCA	A	18.00	20.00	22.00	10.00	18.00	20.00
	MFA	A	25.00	25.00	27.50	16.10	25.00	25.00
	Maximum allowable IDU[5] connections (Hydro A2W unit not included) — Max. number of IDU[5]	EA	2	3	4	4	2	3
	Total capacity Min. (Cooling)	kW	2.20	3.30	4.50	4.50	2.20	3.30
	Total capacity Min. (Cooling)	kW	4.40	6.60	9.00	9.00	4.40	6.60
	Leaving Water Temperature[3] — Heating	°C	15~55	15~55	15~55	15~55	15~55	15~55
	Cooling	°C	5~25	5~25	5~25	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	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	200	260	260
	Declared Load Profile	L/XL	L	L	L	L	XL	XL
	Average water heating efficiency ηwh	ETA%	115	115	115	115	105	105
	Average Energy Efficiency Class		A+	A+	A+	A+	A	A
	Heater — Back-up heater Capacity — Default (Option)	kW	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)
	Sound — Sound Pressure[4] — Heating Std	dB(A)	29	29	29	29	29	29
	Cooling Std	dB(A)	29	29	29	29	29	29
	Sound Power — Heating Std	dB(A)	43	43	43	43	43	43
	Piping — Water pipe (Space Heating) — Inlet/Outlet	Φ, inch	1+1/4"	1+1/4"	1+1/4"	1+1/4"	1+1/4"	1+1/4"
	Dimensions — Net Weight	kg	137	137	137	137	147	147
	Net Dimensions (WxHxD)	mm	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700	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, 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	1Φ, 2, 220~240 V, 50 Hz	1Φ, 2, 220~240 V, 50 Hz
	Compressor — Type	-	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp
	Base Heater — Capacity	kW	-	-	-	-	-	-
	Sound — Sound Pressure[4] — Heating Std	dB(A)	47	48	51	51	47	48
	Cooling Std	dB(A)	46	47	50	50	46	47
	Sound Power — Heating Std	dB(A)	65	67	69	69	65	67
	Dimensions — Net Weight	kg	61.0	61.0	74.0	76.0	61.0	61.0
	Net Dimensions (WxHxD)	mm	880 x 793 x 310	880 x 793 x 310	940 x 998 x 330	940 x 998 x 330	880 x 793 x 310	880 x 793 x 310
	Refrigerant — Type	Type	R410A (Fluorinated greenhouse gas, GWP=2,088)					
	Factory Charging	tCO₂e	5.43	5.43	5.01	5.01	5.43	5.43
		kg	2.6	2.6	2.4	2.4	2.6	2.6
	Piping — Piping Connections — Liquid Pipe	Φ, mm (inch)	9.52 (3/8")	9.52 (3/8")	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")	15.88 (5/8")	15.88 (5/8")
	Piping length (ODU-IDU)[5] — Max.[Equiv.]	m	30	30	30	30	30	30
	Level difference (IDU-IDU)[5] — Max.	m	20	20	20	20	20	20
	Chargeless length	m	10	10	10	10	10	10
	Operation — Ambient Temperature A2W — Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
	Cooling	°C	10~46	10~46	10~46	10~46	10~46	10~46
	DHW	°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43
	Ambient Temperature A2A — Heating	°C	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24
	Cooling	°C	10~46	10~46	10~46	10~46	10~46	10~46

EUROVENT CERTIFIED PERFORMANCE — www.eurovent-certification.com

*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)

Accessories

	Touch Controller	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor	Backup Heater (4/6kW)
	MWR-WW10N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA	MHC-*00FE

				Indoor Unit	AE260TNWTEH/EU	AE260TNWTEH/EU	AE260TNWTEH/EU	AE260TNWTEH/EU	AE260TNWTEH/EU	AE260TNWTEH/EU
				Outdoor Unit	AE090MXTPEH/EU	AE120MXTPEH/EU	AE160MXTPEH/EU	AE090MXTPGH/EU	AE120MXTPGH/EU	AE160MXTPGH/EU
				Controller	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N	MWR-WW10N
System	Operation	Nominal Capacity	Heating A7/W35[1] / A7/W55[2]	kW	9.0/ 7.7	12.0/ 10.7	16.0/ 14.6	9.0/ 7.7	12.0/ 10.7	16.0/ 14.6
			Cooling A35/W18[1]	kW	8.0	12.0	14.5	8.0	12.0	14.5
		Power Input (Nominal)	Heating A7/W35[1] / A7/W55[2]	kW	2.12/ 2.82	2.72/ 3.91	3.95/ 5.32	2.12/ 2.82	2.72/ 3.91	3.95/ 5.32
			Cooling A35/W18[1]	kW	1.85	2.90	3.84	1.86	2.90	3.84
		COP (Nominal Heating) A7/W35[1] / A7/W55[2]		W/W	4.25/ 2.72	4.41/ 2.74	4.05/2.74	4.25/2.69	4.41/ 2.74	4.05/2.74
		EER (Nominal Cooling) A35/W18[1]		W/W	4.32	4.14	3.78	4.30	4.14	3.78
		SCOP LWT 35°C/ 55°C		W/W	4.42/ 3.01	4.65/ 2.92	4.63/3.06	4.44/2.86	4.65/2.92	4.63/ 3.06
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	174/ 117	183/114	182/ 119	175/ 111	183/ 114	182/ 119
		Average Seasonal space heating eff. class ** LWT 35°C/ 55°C		-	A++ / A+	A+++ / A+	A+++ / A+	A+++ / A+	A+++ / A+	A+++ / A+
		Current	MCA	A	22.00	28.00	32.00	10.00	10.00	12.00
			MFA	A	27.50	35.00	40.00	16.10	16.10	16.10
		Maximum allowable IDU[5] connections (Hydro A2Wunit not included)	Max. number of IDU[5]	EA	4	5	7	4	5	7
			Total capacity Min. (Cooling)	kW	4.50	6.00	7.70	4.50	6.00	7.70
			Total capacity Min. (Cooling)	kW	9.00	12.10	15.40	9.00	12.10	15.40
		Leaving Water Temperature[3]	Heating	°C	15~55	15~55	15~55	15~55	15~55	15~55
			Cooling	°C	5~25	5~25	5~25	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	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	260	260	260	260	260	260
	Declared Load Profile			L/XL	XL	XL	XL	XL	XL	XL
	Average water heating efficiency ηwh			ETA%	105	95	95	105	95	95
	Average Energy Efficiency Class			-	A	A	A	A	A	A
	Heater	Back-up heater Capacity	Default (Option)	kW	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)	2 (4/6)
	Sound	Sound Pressure[4]	Heating Std	dB(A)	29	29	29	29	29	29
			Cooling Std	dB(A)	29	29	29	29	29	29
		Sound Power	Heating Std	dB(A)	43	47	47	43	47	47
	Piping	Water pipe (Space Heating)	Inlet/Outlet	Φ, inch	1+1/4"	1+1/4"	1+1/4"	1+1/4"	1+1/4"	1+1/4"
	Dimensions	Net Weight		kg	147	147	147	147	147	147
		Net Dimensions (WxHxD)		mm	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700	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, 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	3Φ, 4, 380~415 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz
	Compressor	Type		-	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp
	Base Heater	Capacity		kW	-	-	-	-	-	-
	Sound	Sound Pressure[4]	Heating Std	dB(A)	51	52	55	51	52	55
			Cooling Std	dB(A)	50	51	54	50	51	54
		Sound Power	Heating Std	dB(A)	69	70	73	69	70	73
	Dimensions	Net Weight		kg	74.0	107.0	107.0	76.0	107.0	107.0
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330
	Refrigerant	Type		Type	R410A (Fluorinated greenhouse gas, GWP=2,088)	R410A (Fluorinated greenhouse gas, GWP=2,088)	R410A (Fluorinated greenhouse gas, GWP=2,088)	R410A (Fluorinated greenhouse gas, GWP=2,088)	R410A (Fluorinated greenhouse gas, GWP=2,088)	R410A (Fluorinated greenhouse gas, GWP=2,088)
		Factory Charging		tCO₂e	5.01	7.31	7.31	5.01	7.31	7.31
				kg	2.4	3.5	3.5	2.4	3.5	3.5
	Piping	Piping Connections	Liquid Pipe	Φ, mm (inch)	9.52 (3/8")	9.52 (3/8")	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")	15.88 (5/8")	15.88 (5/8")
		Piping length (ODU-IDU)[5]	Max.[Equiv.]	m	30	70	70	30	70	70
		Level difference (IDU-IDU)[5]	Max.	m	20	30	30	20	30	30
		Chargeless length		m	10	10	10	10	10	10
	Operation	Ambient Temperature A2W	Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
			Cooling	°C	10~46	10~46	10~46	10~46	10~46	10~46
			DHW	°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43
		Ambient Temperature A2A	Heating	°C	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24
			Cooling	°C	10~46	10~46	10~46	10~46	10~46	10~46

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

*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

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

	EHS Controller (included)	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor
	MWR-WW00N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA

				Indoor Unit →	AE090MNYDEH/EU	AE090MNYDEH/EU	AE090MNYDEH/EU	AE090MNYDGH/EU	AE160MNYDEH/EU	AE160MNYDGH/EU	AE160MNYDEH/EU	AE160MNYDGH/EU
				Outdoor Unit →	AE044MXTPEH/EU	AE066MXTPEH/EU	AE090MXTPEH/EU	AE090MXTPGH/EU	AE120MXTPEH/EU	AE120MXTPGH/EU	AE160MXTPEH/EU	AE160MXTPGH/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	12.0/ 10.7	12.0/ 10.7	16.0/ 14.6	16.0/ 14.6
			Cooling A35/W18[1]	kW	5.1	6.7	8.0	8.0	12.0	12.0	14.5	14.5
		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	2.72/ 3.91	2.72/ 3.91	3.95/ 5.32	3.95/ 5.32
			Cooling A35/W18[1]	kW	1.03	1.48	1.85	1.86	2.90	2.90	3.84	3.84
		COP (Nominal Heating) A7/W35[1]		W/W	4.73/2.80	4.49/2.59	4.25/2.72	4.25/2.69	4.41/2.74	4.41/2.74	4.05/2.74	4.05/2.74
		EER (Nominal Cooling) A35/W18[1]		W/W	4.95	4.53	4.32	4.30	4.14	4.14	3.78	3.78
		SCOP LWT 35°C/ 55°C		W/W	4.41/ 2.83	4.41/2.96	4.42/ 3.01	4.44/ 2.86	4.65/ 2.92	4.65/ 2.92	4.63/ 3.06	4.63/ 3.06
		Seasonal space heating enr.efficiency ηs LWT 35°C/ 55°C		ETA%	173/ 110	173/ 115	174/ 117	175/ 111	183/ 114	183/ 114	182/ 119	182/ 119
		Seasonal Space Heating Eff. Class LWT 35°C/ 55°C			A++ / A+	A++ / A+	A++ / A+	A+++ / A+	A+++ / A+	A+++ / A+	A+++ / A+	A+++ / A+
		Current	MCA	A	18	20	22	10	28	10	32	12
			MFA	A	25.0	25.0	27.5	16.1	35.0	16.1	40.0	16.1
		Maximum Allowable IDU[6] Connections (Hydro A2W Unit Not Included)	Max. Number of IDU[6]	EA	2	3	4	4	5	5	7	7
			Total Capacity Min. (Cooling)	kW	2.2	3.3	4.5	4.5	6.0	6.0	7.7	7.7
			Total Capacity Min. (Cooling)	kW	4.4	6.6	9.0	9.0	12.1	12.1	15.4	15.4
		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)	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	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	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
	Expansion Vessel			litres	8	8	8	8	8	8	8	8
	Heater	Back-up heater Capacity		kW	4	4	4	6	6	6	6	6
	Sound	Sound Pressure[5]	Std	dB(A)	31	31	31	31	38	38	38	38
		Sound Power	Std	dB(A)	48	48	48	48	55	55	55	55
	Piping	Water pipe	Inlet/Outlet	Φ, inch	1+1/4"	1+1/4"	1+1/4"	1+1/4"	1+1/4"	1+1/4"	1+1/4"	1+1/4"
	Dimensions	Net Weight		kg	45.5	45.5	45.5	46.5	46.5	46.5	46.5	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	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	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
	Compressor	Type		-	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp
	Base Heater	Capacity		kW	-	-	-	-	-	-	-	-
	Sound	Sound Pressure[5]	Heating Std	dB(A)	47	48	51	51	52	52	55	55
			Cooling Std	dB(A)	46	47	50	50	51	51	54	54
		Sound Power	Heating Std	dB(A)	65	67	69	69	70	70	73	73
	Dimensions	Net Weight		kg	61	61	74	76	107	107	107	107
		Net Dimensions (WxHxD)		mm	880 x 793 x 310	880 x 793 x 310	940 x 998 x 330	940 x 998 x 330	940 x 1,420 x 330	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)				R410A (Fluorinated greenhouse gas, GWP=2,088)			
		Factory Charging		tCO₂e	5.43	5.43	5.01	5.01	7.31	7.31	7.31	7.31
				kg	2.6	2.6	2.4	2.4	3.5	3.5	3.5	3.5
	Piping	Piping Connections	Liquid Pipe	Φ, mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	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")	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	70	70	70	70
		Level Difference (IDU-IDU)[5]	Max.	m	20	20	20	20	30	30	30	30
		Chargeless Length		m	10	10	10	10	10	10	10	10
Operation	Ambient Temperature A2W	Heating		°C	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
		Cooling		°C	10~46	10~46	10~46	10~46	10~46	10~46	10~46	10~46
		DHW		°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43
	Ambient Temperature A2A	Heating		°C	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24
		Cooling		°C	10~46	10~46	10~46	10~46	10~46	10~46	10~46	10~46

*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] 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

EUROVENT CERTIFIED PERFORMANCE — www.eurovent-certification.com

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

Accessories

1-room EEV Kit	2/3 Room EEV Kit	Wireless Remote Controller (included)	Touch Controller	Wired Remote Controller	DMS2.5	Wi-Fi Kit
MEV-E**SA	MXD-E**K***A	AR-EH03E	MWR-SH11N	MWR-WE13N	MIM-D01AN	MIM-H04EN

Type			TDM Plus WindFree™ Deluxe	TDM Plus WindFree™ Deluxe	TDM Plus WindFree™ Deluxe	TDM Plus WindFree™ Deluxe	TDM Plus WindFree™ Deluxe
Model Name			AE022TNXDEH/EU	AE028TNXDEH/EU	AE036TNXDEH/EU	AE056TNXDEH/EU	AE071TNXDEH/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	1Φ, 2, 220~240 V, 50 Hz
Capacity	Cooling	kW	2.20	2.80	3.60	5.60	6.80
	Heating	kW	2.50	3.20	4.00	6.30	7.00
Power Input (Nominal)	Cooling	W	24.0	30.0	37.0	52.0	60.0
	Heating	W	24.0	30.0	37.0	52.0	60.0
Current Input (Nominal)	Cooling	A	0.16	0.20	0.25	0.35	0.40
	Heating	A	0.16	0.20	0.25	0.35	0.40
Fan	Type	-	Cross flow Fan	Cross flow Fan	Cross flow Fan	Cross flow Fan	Cross flow Fan
	Quantity	EA	1	1	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	15.7/13.8/12.0	16.8/15.0/13.2
		l/s	95.0/83.3/75.0	141.7/128.3/115.0	171.7/151.7/138.3	261.7/230.0/200.0	280.0/250.0/220.0
Fan motor	Type	-	BLDC	BLDC	BLDC	BLDC	BLDC
	Output xn	W	27x1	27x1	27x1	27x1	27x1
Piping Connections	Liquid Pipe	Φ, mm(inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")
	Gas Pipe	Φ, mm(inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")
Wiring connections	For power supply below 20m/over 20m (min)	mm²	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5	1.5/2.5
	Communication (min)	mm²	0.75	0.75	0.75	0.75	0.75
Refrigerant	Type	-	R410A (Fluorinated greenhouse gas, GWP=2,088)			R410A (Fluorinated greenhouse gas, GWP=2,088)	
	Control Method [1]	-	EEV NOT INCLUDED	EEV NOT INCLUDED	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	40/37/34/29	43/40/37/29
	Sound Power	dB(A)	51	52	56	58	62
Dimensions	Net Weight	kg	8.50	9.00	9.00	11.50	11.50
	Net Dimensions (WxHxD)	mm	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
Functions							
Air Flow	WindFree™ Cooling		●	●	●	●	●
	Air Direction Control (Up/Down)		Auto	Auto	Auto	Auto	Auto
	Air Direction Control (Left/Right)		Auto	Auto	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		●	●	●	●	●

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			Φ, #, V, Hz	Slim Duct AE022MNLDEH/EU	Slim Duct AE028MNLDEH/EU	Slim Duct AE036MNLDEH/EU	Slim Duct AE056MNLDEH/EU
Model Name							
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/Displacement	mm / Litre/h	750 / 24	750 / 24	750 / 24	750 / 24

Accessories									
Drain Pump (Built-in)	Remote Control	Touch Controller	Wired Remote Control	Wireless Receiver Kit	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor	Y-joint
MDP-E075SEE3D	AR-EH00	MWR-SH11N	MWR-WE13N	MRK-A10N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA	MXJ-YA1509M

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			Φ, #, V, Hz	MSP Duct AE071MNMPEH/EU	MSP Duct AE090MNMPEH/EU
Model Name					
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)	m³/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	Wired Remote Control	Touch Controller	DMS2.5	Wi-Fi Kit	External Room Sensor	Wireless Receiver Kit	Y-joint
MDP-G075SQ	MDP-G075SP	AR-EH00	MWR-SH11N	MWR-WE13N	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA	MRK-A10N	MXJ-YA1509M

TDM Plus

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				Console	Console	Console	Console
Model Name				AE022MNJDEH/EU	AE028MNJDEH/ EU	AE036MNJDEH/ EU	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	Wired Remote Control	Y-joint
MWR-SH11N	MR-EH00	MCM-A300N	MIM-D01AN	MIM-H04EN	MRW-TA	MWR-WE13N	MXJ-YA1509M

Dimensional Drawings

TDM Plus Tank Integrated Hydro Unit

AE200TNWTEH/EU, AE260TNWTEH/EU
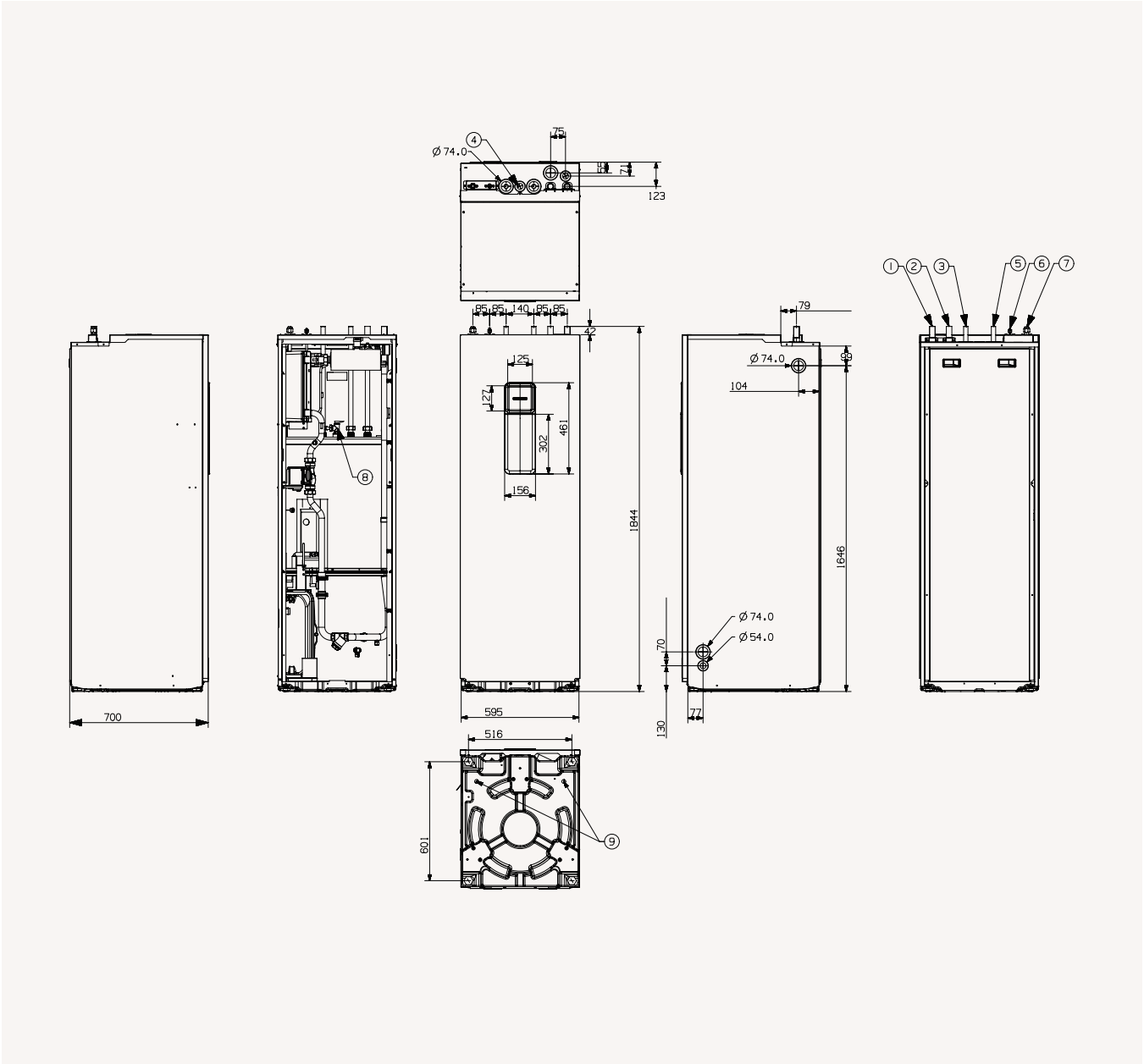
NO	Name	Description	
		AE200TNWTEH/EU	AE260TNWTEH/EU
1	Space heating Inlet	Ø28	Ø28
2	Space heating Outlet	Ø28	Ø28
3	DHW Inlet	Ø22	Ø22
4	Secondary water return	N/A	Ø22
5	DHW Outlet	Ø22	Ø22
6	Refrigerant liquid pipe	Ø9.52	Ø9.52
7	Refrigerant Gas pipe	Ø15.88	Ø15.88
8	T/Pv/v	Female PT 1/2"	Female PT 1/2"
9	Drain Holes	(Option) Connect with the provided drain plug	

Dimensional Drawings

TDM Plus Outdoor

MOUNT BOLT SPEC : M6 x 4

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.	

TDM Plus Outdoor

MOUNT BOLT SPEC : M6 x 4

Rear View

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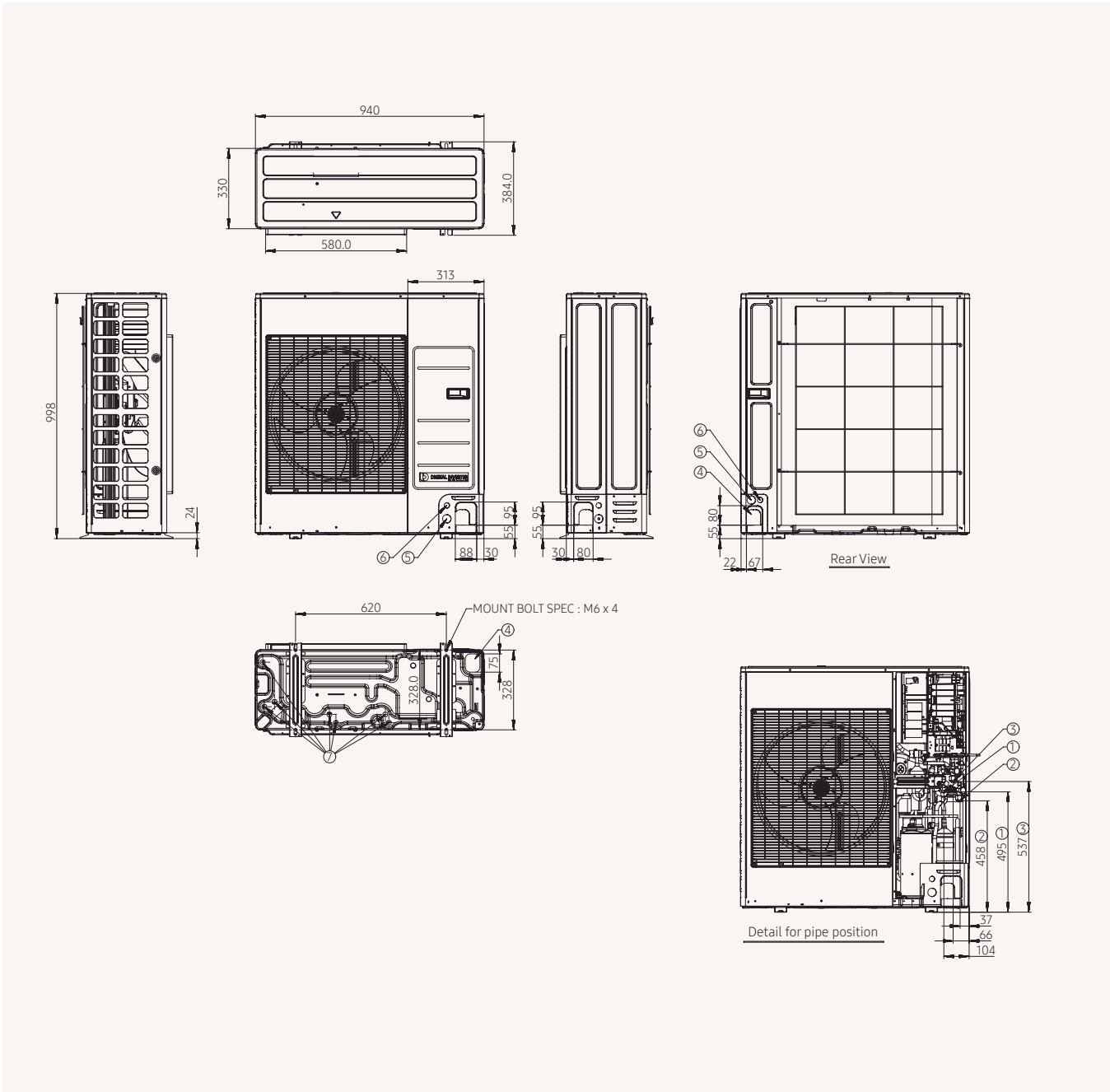
NO	Name	Description
		9 kW
1	Refrigerant liquid pipe	Φ9.52("3/8)
2	Refrigerant gas pipe for air	Φ15.88("5/8)
3	Refrigerant gas pipe for water	Φ15.88("5/8)
4	Knockout hole for pipe intake	Front / Side / Rear / Bottom
5	Power wiring conduits	Front / Side / Rear, Φ34("1-3/8)
6	Communication wiring conduits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

TDM Plus

TDM Plus

Dimensional Drawings

TDM Plus Outdoor

WindFree™ Deluxe
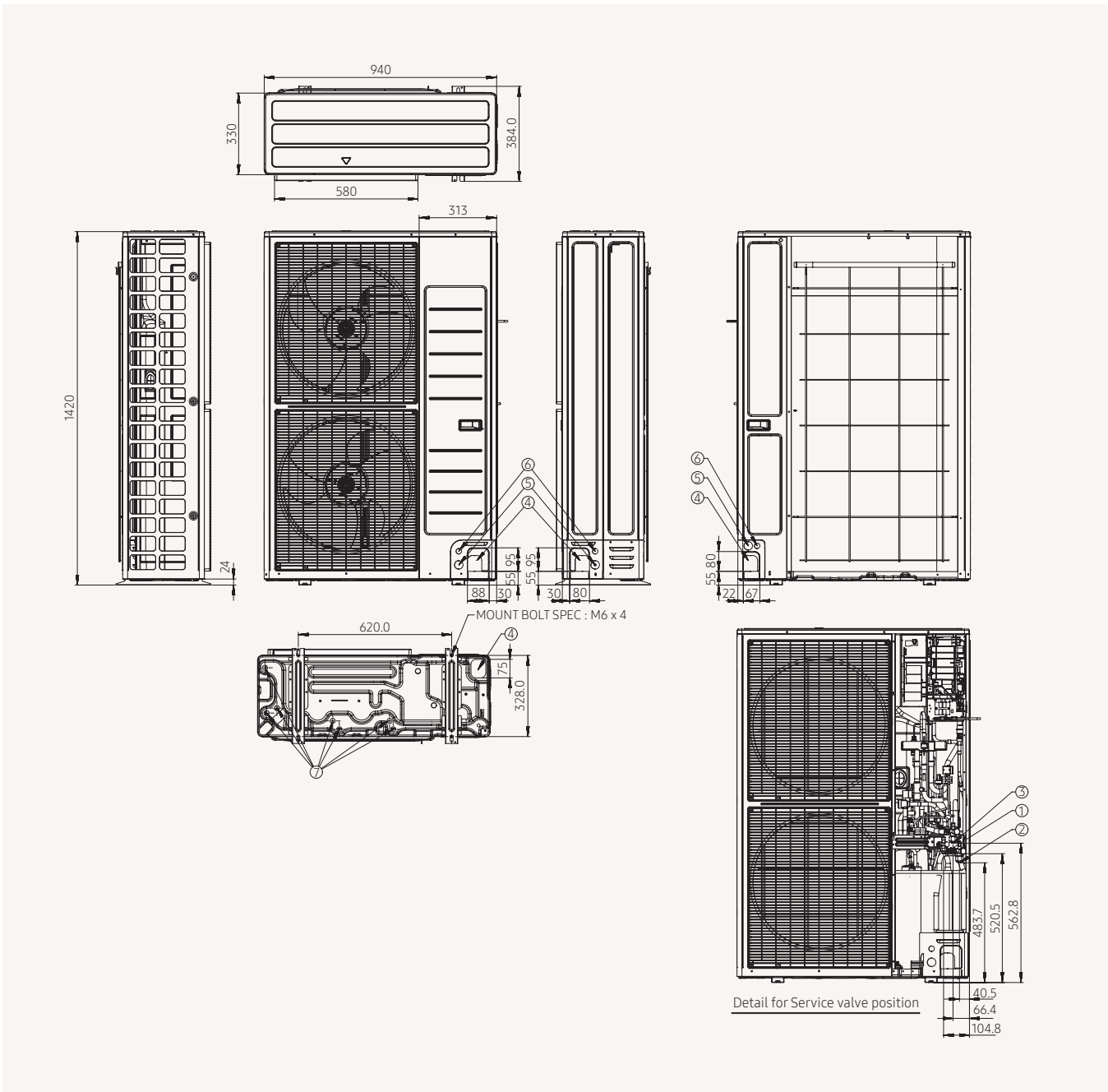
NO	Name	Description	
		12 kW	16 kW
1	Refrigerant liquid pipe	Φ9.52("3/8)	
2	Refrigerant gas pipe for air	Φ15.88("5/8)	Φ15.88("5/8)
3	Refrigerant gas pipe for water	Φ15.88("5/8)	Φ15.88("5/8)
4	Knockout hole for pipe intake	Front / Side / Rear / Bottom	Front / Side / Rear / Bottom
5	Power wiring conduits	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

AE056/071TNXDEH/EU
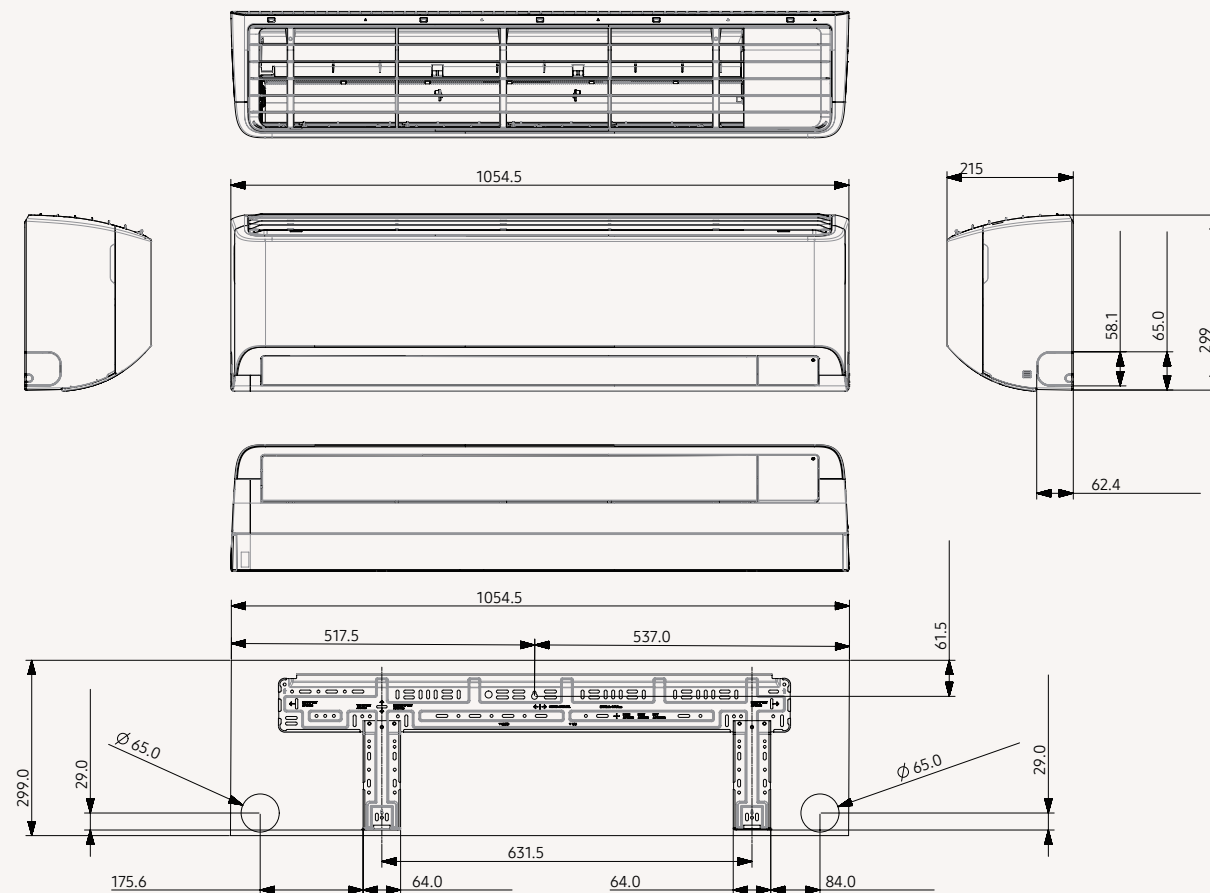
TDM Plus Slim Duct

AE022/028/036MNLDEH/EU
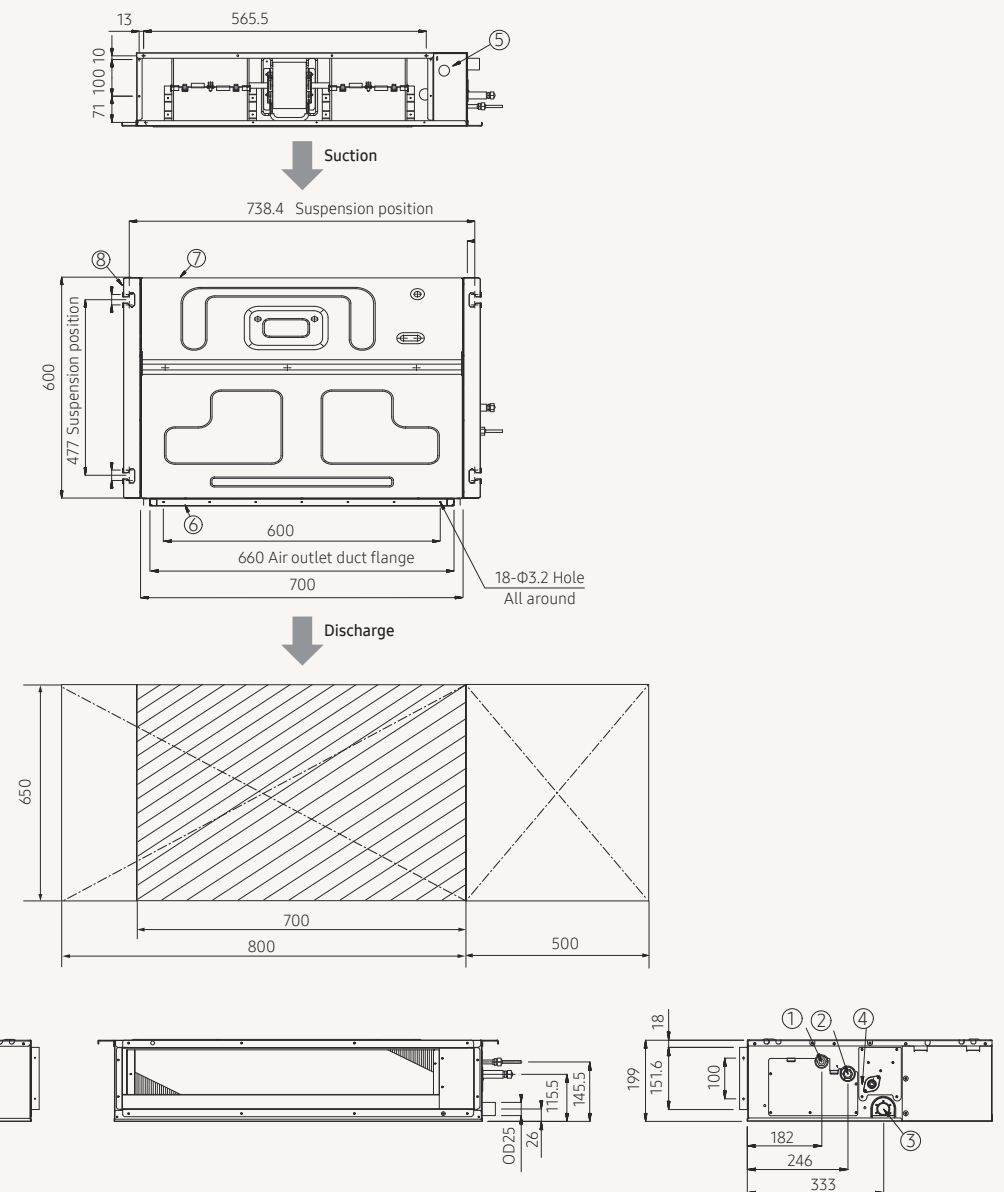
NO	Name	Description
1	Liquid pipe connection	Φ6.35(1/4")
2	Gas pipe connection	Φ12.70(1/2")
3	Drain pipe connection without drain pump	VP25(OD Φ32, ID Φ25)
4	Drain pipe connection with drain pump	VP25(OD Φ32, ID Φ25)
5	Power supply/Communication connection	-
6	Air discharge grille flange	-
7	Return air side	-
8	Hook	Φ9.52 or M10

Dimensional Drawings

TDM Plus MSP Duct

AE056MNLDEH/EU
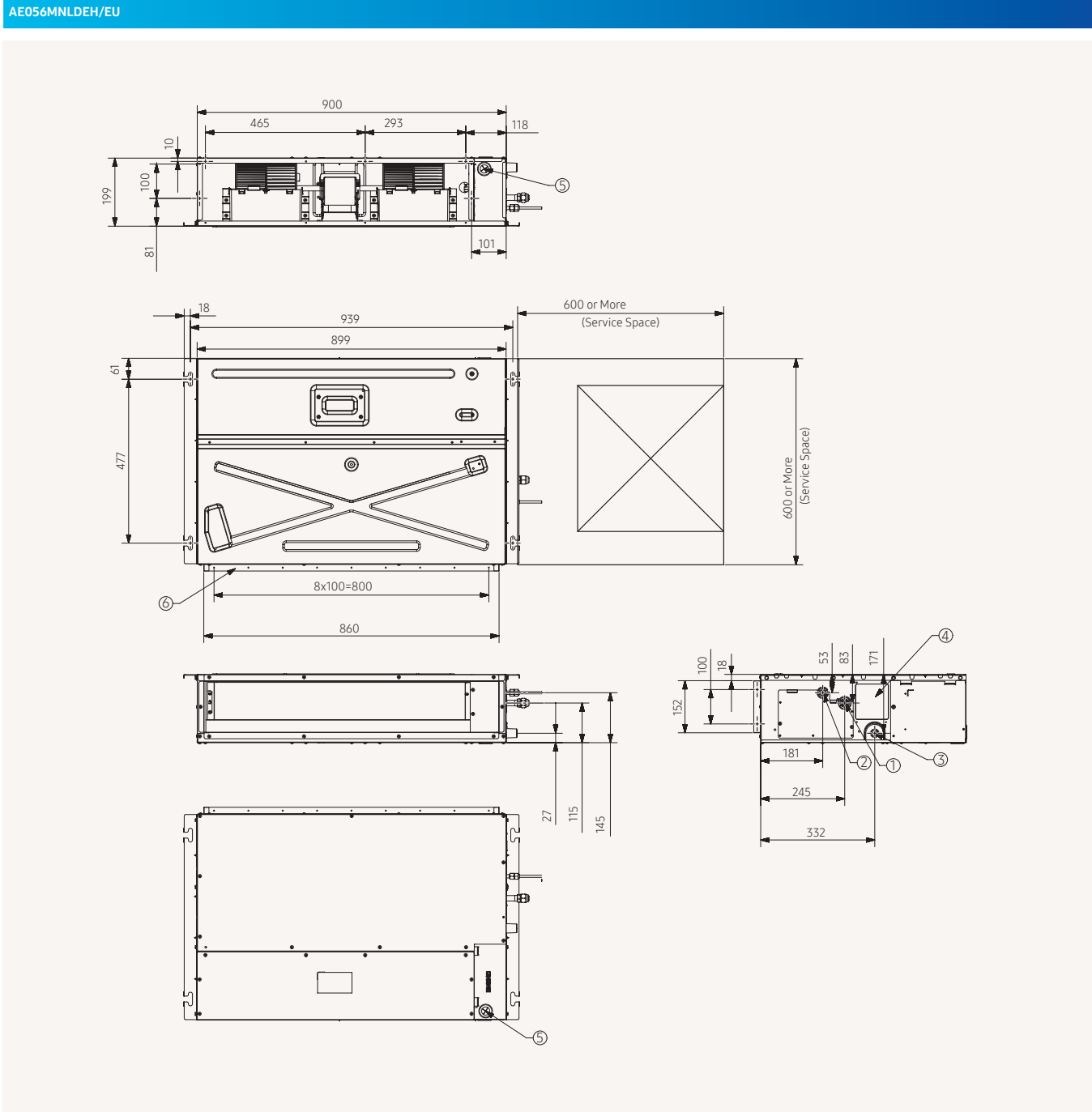
NO	Name	Description
1	Gas pipe connection	Φ12.7(1/2)
2	Liquid pipe connection	Φ6.35(1/4)
3	Drain pipe connection	VP-25(OD 32, ID 25)
4	Knockout hole for Drain pump	Option kit
5	Power supply & Communication wiring conduit	-
6	Air outlet duct flange	-

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

TDM Plus

Dimensional Drawings

TDM Plus MSP Duct

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 Console

AE022/028/036/056MNJDEH/EU
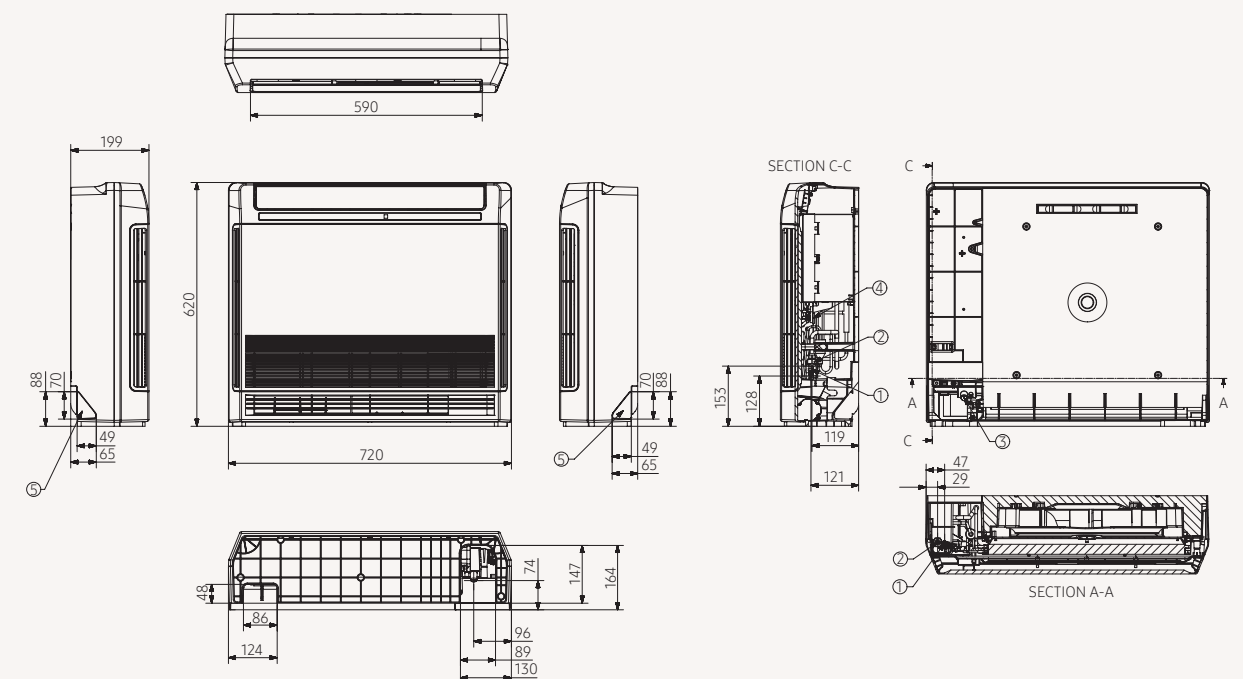
NO	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)
2	Gas pipe connection	Φ12.7(1/2)
3	Drain pipe connection	ID 18mm[11/16 inch] Hose
4	Power supply & Communication wiring conduit	-
5	Knockout hole for drain hose	-

Dimensional Drawings

Wall-Mounted Hydro Unit

AE090/160MNYD*H/EU
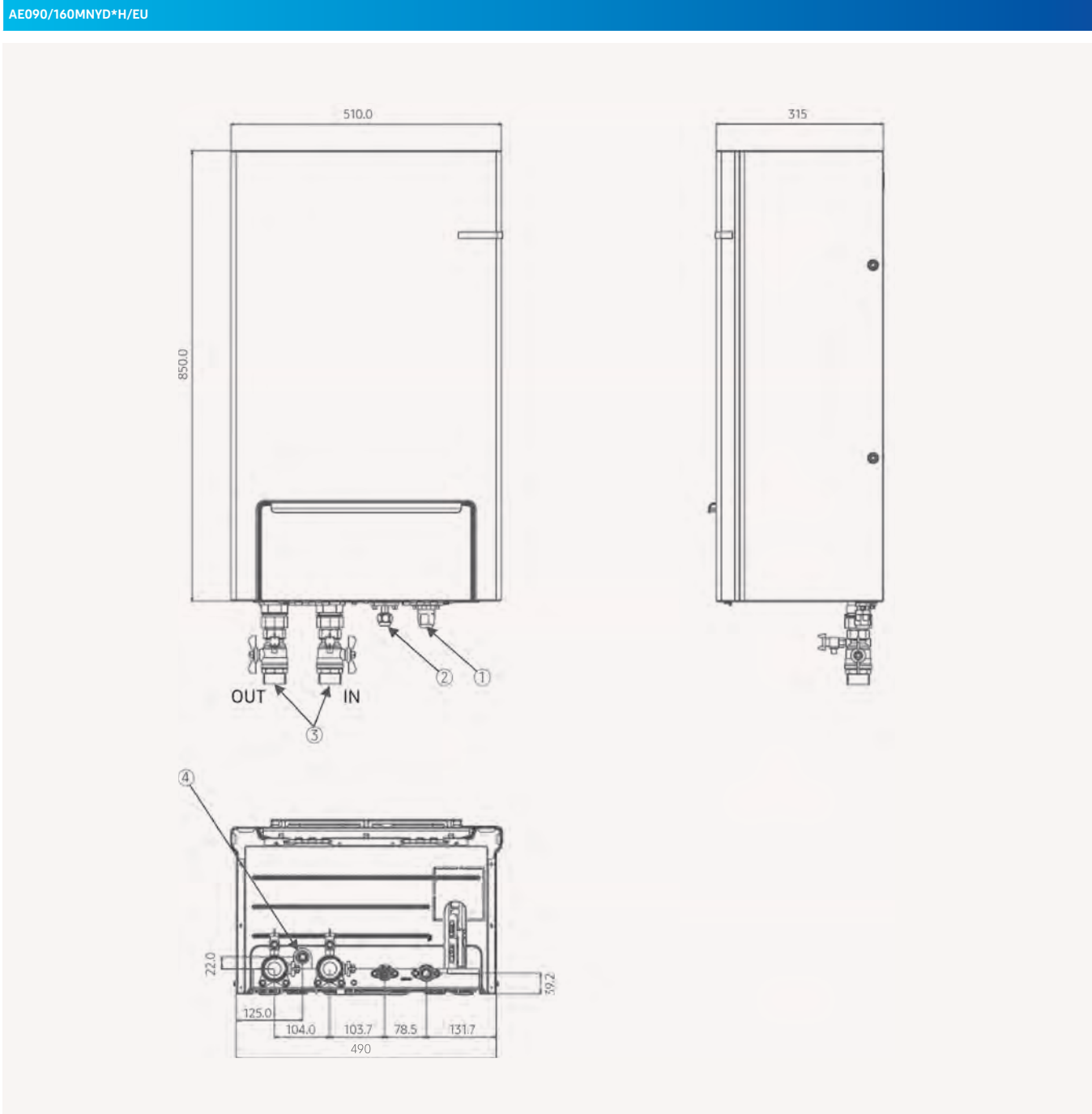
NO	Name	Description
1	Gas Ref. Pipe	φ 6.35 (1/4") (9kW), φ 9.52 (3/8) (16kW)
2	Liquid Ref. Pipe	φ 15.88 (5/8)
3	Water Pipe (Inlet/Outlet)	BSPP male 11/4
4	Drain Hose Connector	

Controls

Line-up

Category	Product	Model		EHS ClimateHub R32		EHS with Third Party Tank			TDM Plus ClimateHub R410A	Wall-Mounted Hydro Unit	TDM Plus WindFree™ Deluxe	Slim Duct	MSP Duct	Console
				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										optional	optional	●*
	Wired Remote Controller	MWR-WW10N		●	●	●	●*		●					
		MWR-WW00N						●*		●*				
		MWR-WE13N									●	●	●	●
	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		●	●	●	●	●	●	●	●	●	●	●
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										●	●	

*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-WW10N

- 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 and Polish.

Wired Remote Controller

MWR-WE13N
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

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

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

Features

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

Controls

Controls

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					●	

Design and
Support

Samsung Climate Solutions Partner Portal

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

Access technical resources

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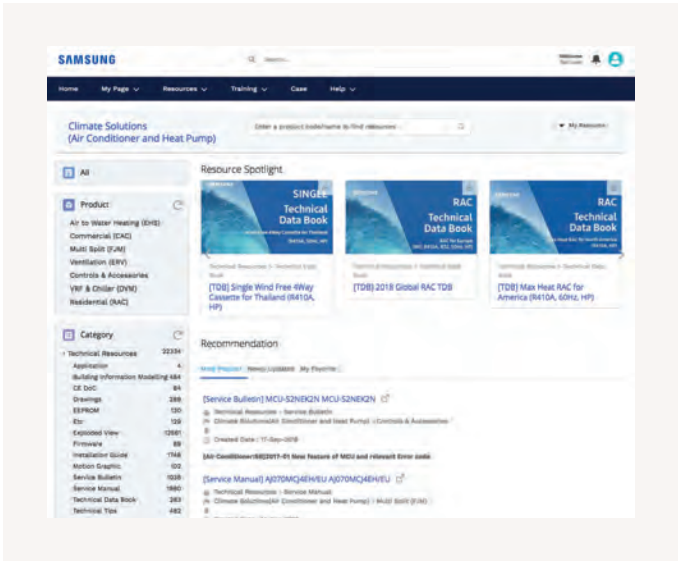
Obtain marketing resources

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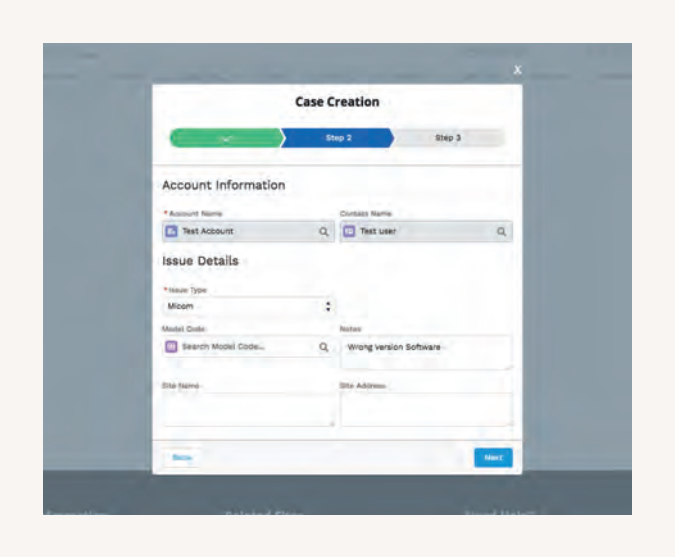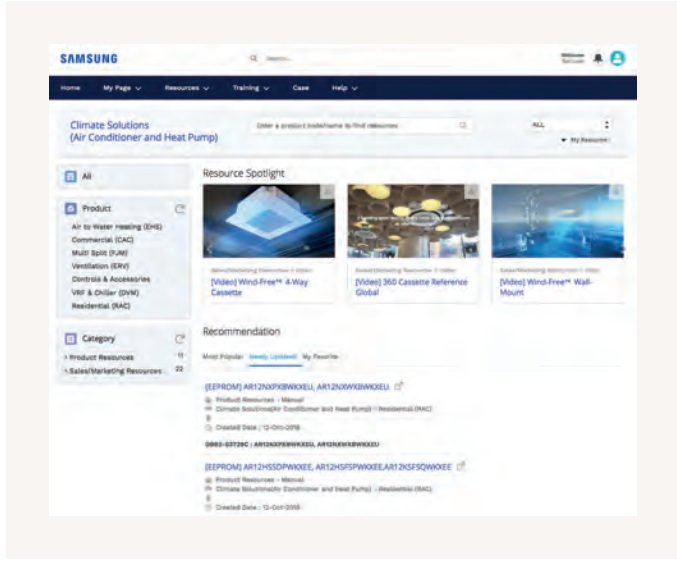

Request technical support

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

Register for training

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

[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
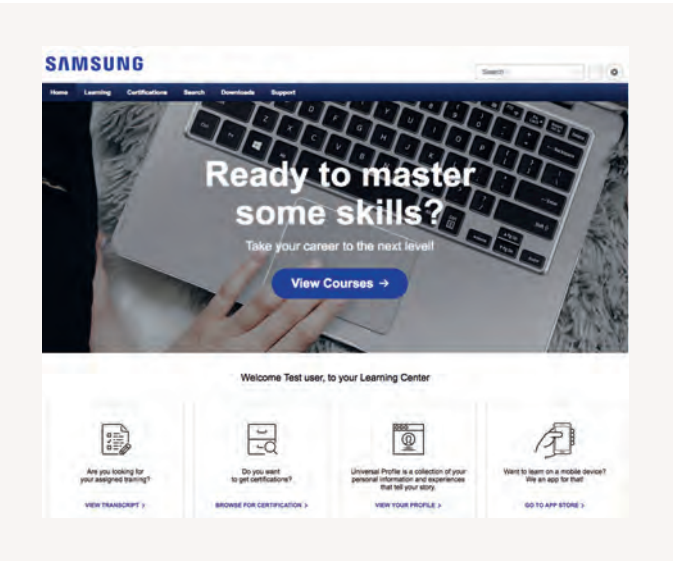
① www	② ****	③ ⚙	④ 👆
Register	**Access**	**Manage account**	**Search and download**
To register for the Samsung Climate Solutions Partner Portal, open your web browser[1] and go to **partnerhub.samsung.com/climate** to complete the registration form.	Your information will be verified and your account will be activated. You will receive your personal login details.	Keep your account details up to date and invite your colleagues to join.	Access a full library of resources, request technical support, or sign up for a Climate Solutions Academy training session.

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

DVM Pro 2.0

Samsung
DVM Pro 2.0 `NEW`

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

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

Sales Mode

Sales Mode enables users to define their requirements and select air conditioning products quickly and easily.
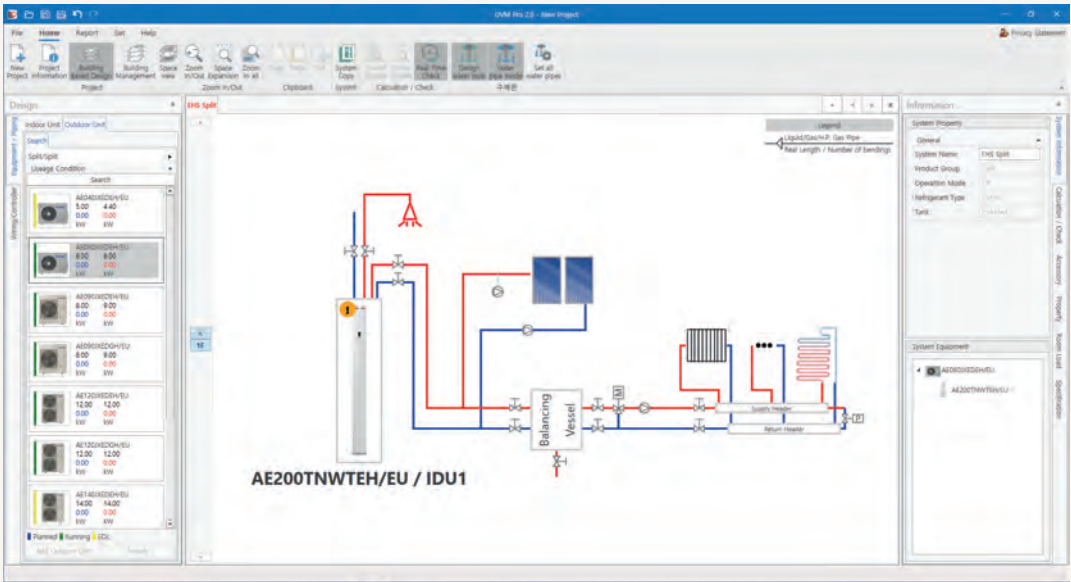
Product selection
List of equipment, including indoor units, outdoor units, controls and accessories

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

Reports
Specifications, diagrams in DWG & BMP format, quotations

Control systems
Automatic control unit selection

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

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

CAD Mode

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

[1] Sourced separately.
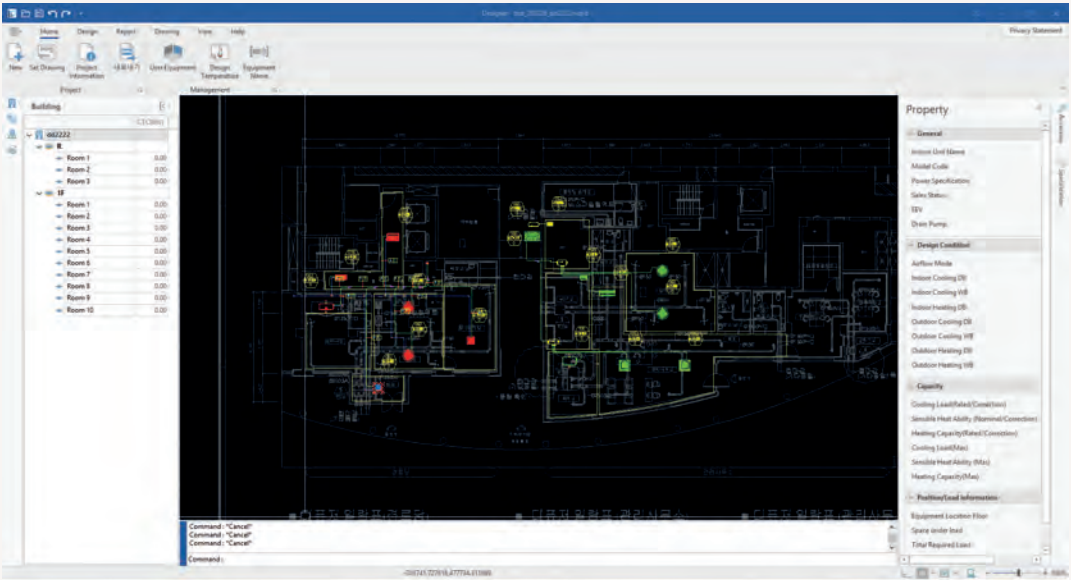
Pipe sizing & lengths
Refrigerant & drain pipe sizing

System check
Installation regulation & refrigerant charging

Automatic selection
Refnet joint, header & distributor kit

Performance simulation
Capacity correction tool against specific design conditions

Automatic report
Piping installation

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

How to access

Register

Select

Download

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.

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

Download 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 Climate Solutions Academy

Samsung Climate Solutions Academy

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

Samsung training centres in Europe

United Kingdom - Mansfield
United Kingdom - Chertsey
Poland - Warsaw
The Netherlands - Amsterdam
France - Lyon
Italy - Milan
Portugal - Lisbon
Spain - Madrid
Greece - Athens

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 informa-

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.
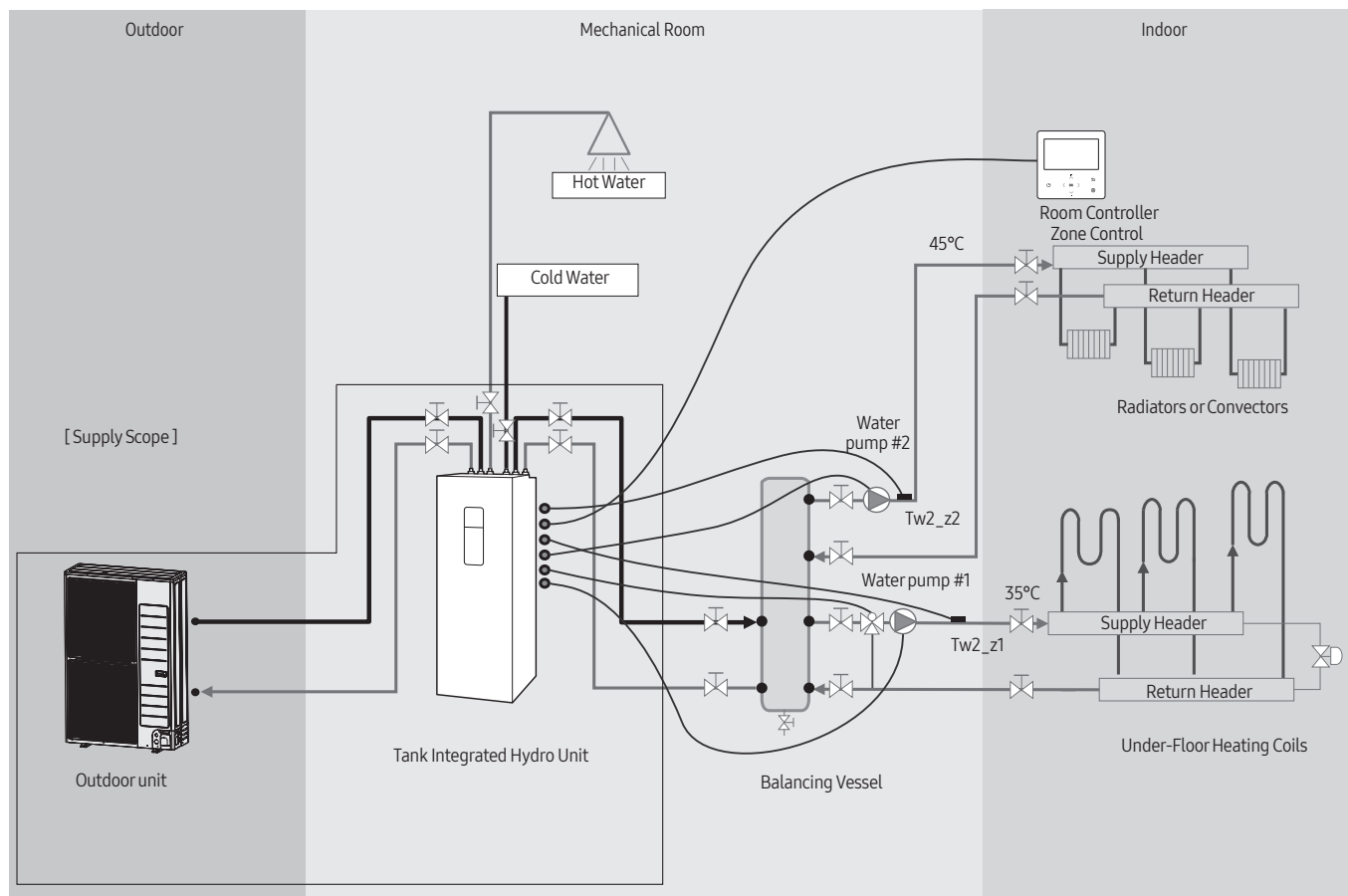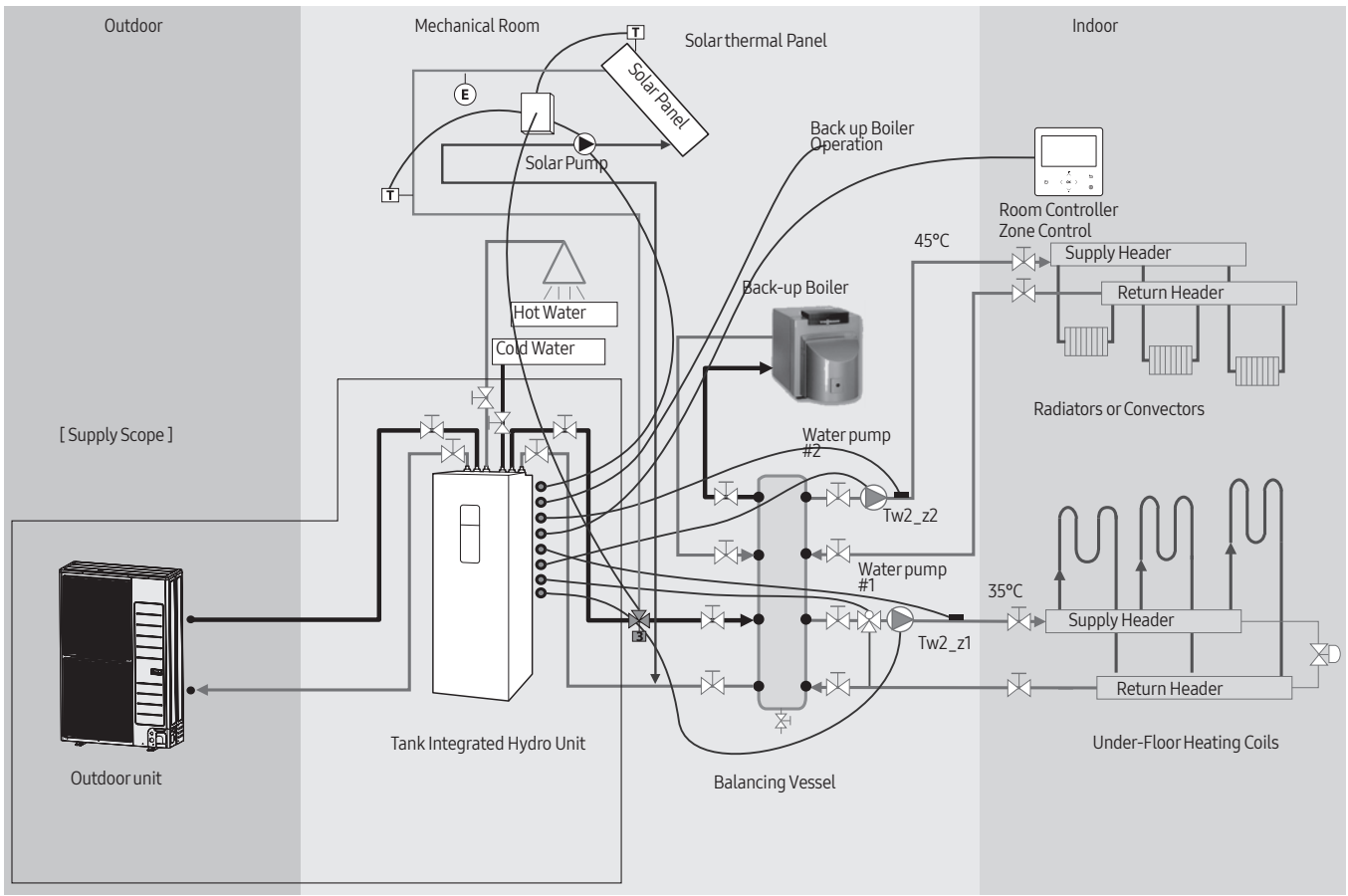
Hydraulic
Schematics

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

ClimateHub Split

Application examples

Application 1: Space heating + water heating

Outdoor — Mechanical Room — Indoor

Hot Water
Cold Water
Room Controller Zone Control
45°C
Supply Header
Return Header
Radiators or Convectors
Water pump #2
Tw2_z2
Water pump #1
35°C
Tw2_z1
Supply Header
Return Header
Under-Floor Heating Coils
[Supply Scope]
Outdoor unit
Tank Integrated Hydro Unit
Balancing Vessel

ClimateHub Split

Application examples

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

Outdoor — Mechanical Room — Solar thermal Panel — Indoor

Solar Panel
Solar Pump
Back up Boiler Operation
Back-up Boiler
Hot Water
Cold Water
Room Controller Zone Control
45°C
Supply Header
Return Header
Radiators or Convectors
Water pump #2
Tw2_z2
Water pump #1
35°C
Tw2_z1
Supply Header
Return Header
Under-Floor Heating Coils
[Supply Scope]
Outdoor unit
Tank Integrated Hydro Unit
Balancing Vessel

ClimateHub Mono

Application examples

Application 3: Space heating + water heating

Outdoor — Mechanical Room — **Indoor**

Back up Boiler Operation

Back-up Boiler

45°C

Room Controller Zone Control

Supply Header

Return Header

Radiators or Convectors

[Supply Scope]

Water pump #2

Tw2_z2

Water pump #1

35°C

Supply Header

Tw2_z1

Return Header

Under-Floor Heating Coils

Outdoor unit

Tank Integrated Hydro Unit

Balancing Vessel
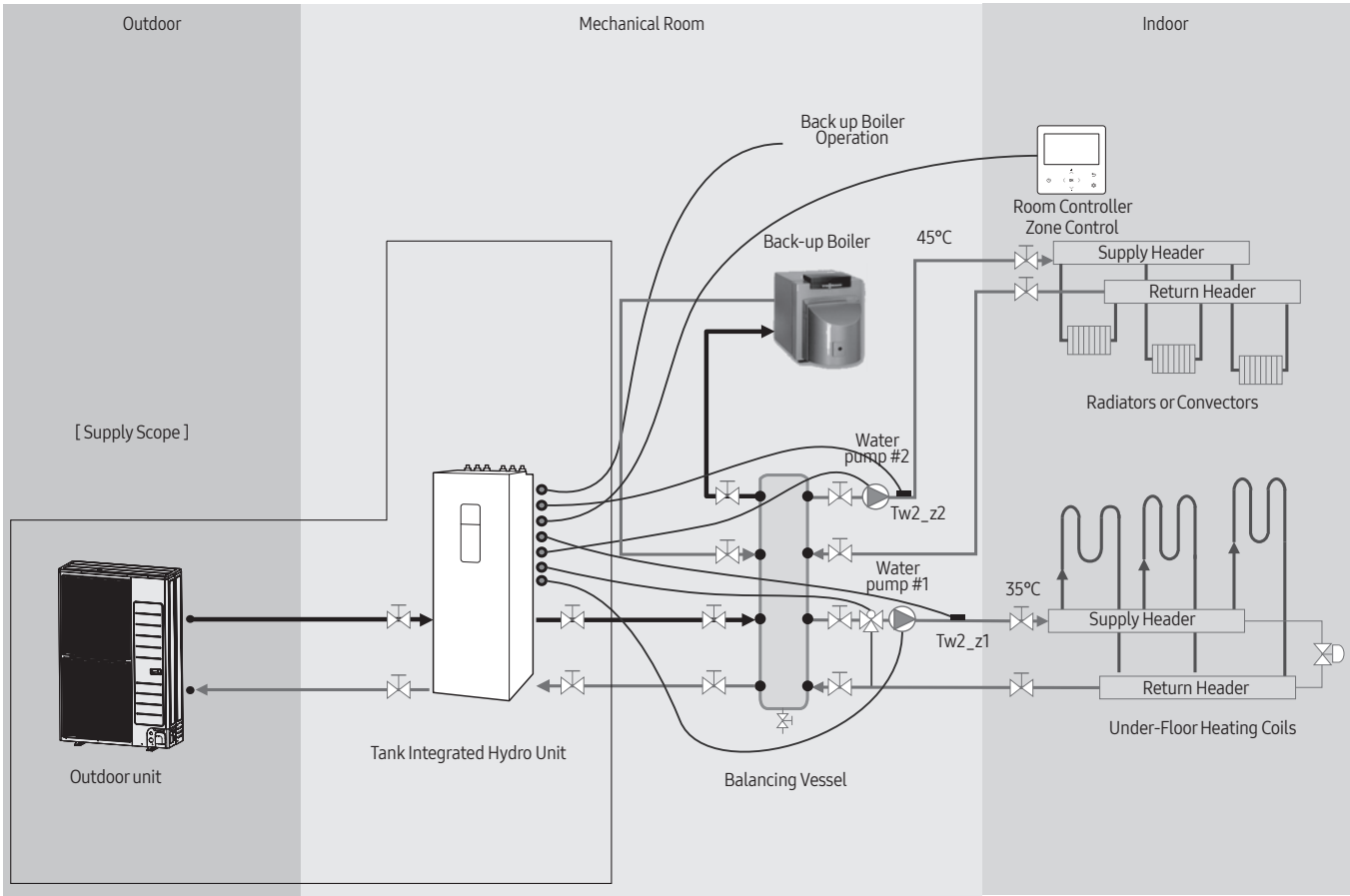
ClimateHub TDM Plus

Application examples

Application 4: Space heating + water heating/ A2A cooling

Outdoor — Mechanical Room — **Indoor**

Hot Water

Cold Water

45°C

Room Controller Zone Control

Supply Header

Return Header

Radiators or Convectors

[Supply Scope]

Water pump #2

Tw2_z2

Water pump #1

35°C

Tw2_z1

Space Heating

Supply Header

Return Header

Under-Floor Heating Coils

Y joint

Outdoor unit

Tank Integrated Hydro Unit

Balancing Vessel

EEV Kit

Space Cooling

Notes

Notes

Notes

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

Samsung Electronics Air Conditioner Europe B.V.
Evert van de Beekstraat 310, 1118 CX Schiphol
P.O. Box 75810, 1118 ZZ Schiphol
+31 (0)8 81 41 61 00
The Netherlands

SAMSUNG