

SAMSUNG



Discover the new EHS ClimateHub

The perfect fit for your comfort

The new ClimateHub: easy to install and easy to service

The new EHS ClimateHub is an all-in-one integrated solution for heating and domestic hot water. Its slim-fit design makes it the perfect fit for the home. Installation is easy: selective defrost logic and extended heating operation control range ensures efficient heating using smart buffer logic¹, reducing dependence on water volume. Its design offers easy access for servicing. It has a detachable AI Home 7-inch touch display for user-friendly monitoring and control. When connected to the SmartThings app², users can efficiently manage their energy usage.



Easy to install

The two-zone model is easy to install, even in one day. Magnetic filters, 3-way valves, and an expansion vessel are all provided as standard. The control box is easy to access, and major components and internal pipes have a Quick Connector for easy release by hand, which saves time and effort during service.



Easy servicing



Easy installation



Improved interaction

High-quality hot water cylinder

The new Samsung Hot Water Cylinder interacts well with our EHS heat pumps and offers improved dependability and efficiency for heating and hot water requirements.

New Emergency Mode

During a system error in the heat pump outdoor unit, the emergency mode³ will activate the built-in electric heater⁴ of the indoor unit to provide heating and hot water. Emergency mode is set in the menu of the 7" display during installation to ensure uninterrupted heating when needed.

One-click manual

AI Home provides easy access to the system's user manual. Users scan a QR-code using their smartphone to open and download the manual in several languages⁵.

Slim-fit design

The slim-fit design of the renewed ClimateHub fits easily into a variety of spaces. This makes it ideal for multi-unit houses and apartments, both new-builds and retrofits. The greige tint blends well into new and existing modern interiors.

Easy Installation and Smart Efficiency

Easy Installation

The integrated design of the new ClimateHub with most necessary hydraulic components inside the unit, allows for easy installation, even in one day.

Improved defrost operating logic ensures that the water used for defrosting does not interfere with the heating function. The wider heating control range reduces the Thermo off time and improves overall efficiency and dependability.

Magnetic filters, 3-way valves, and an expansion vessel are standard. The 2-zone models⁶ produce two zones without any additional equipment. Available as 2kW, 4kW and 6kW.⁷

Save time servicing

You can adjust the Field Setting Values on the Home Appliance Smart Service App⁸ or EHS Cloud Service instead of using an SD card to save time.

Energy saving

The overall heat transfer area has been expanded by 23% and the domestic hot water efficiency has been increased from 115% to 148%. Thanks to triple insulation, heat loss has been reduced by up to 56%¹⁰.

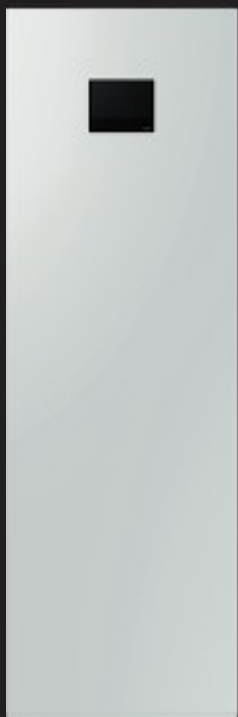
Improved interaction

AI Home offers users a sophisticated smart home control experience with real-time updates on energy usage on the detachable 7" display. It has a standard range of 2m; the optional 30m wire offers extra range. Schedules can be easily adapted, and temperatures adjusted to fit the outside weather conditions.¹¹ The full range of functionality is available when the AI Home is connected to the PV system¹² (if available) and other devices allowing efficient energy management by optimizing hot water and heating operations. Users can enhance the smart home solutions by integrating the AI Home with Samsung's SmartThings app, which enables them to control other appliances connected to the app through a Wi-Fi connection. AI Home features a user-friendly interface, supporting multiple languages and presents information through the intuitive layout on the 7" display.

Energy usage management

When linked to the Samsung's SmartThings App¹³, AI Home enables users to monitor and adapt energy usage in a simple way. If they have a compatible PV installation, they can monitor PV energy usage and solar levels as well. AI Energy mode connected to the SmartThings App¹⁴ can reduce electricity consumption.

Size



Compact sizing

Width: 598mm

Height: 1,850mm

Depth: 600mm



Compatible products:

Outdoor Units



Chassis

Model (20EA)	AE050CXUDEK AE080CXVD*K	AE080BXVD*G AE120BXVD*G AE140BXVD*G AE120CXVD*K AE160CXVD*K	AE050RXYDEG	AE120RXYD*G AE160RXYD*G	AE080RXYD*G
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Control interface



Wired remote controller	Touch Controller	DMS 2.5
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How it works and what's needed

The new ClimateHub is easy to install, even in one day. The evolution of the original ClimateHub design means that the major field installation parts are now built into the hub to reduce time and effort needed during installation, maintenance and servicing.



- Hot water tank required.
- Available on Android and iOS devices. A Wi-Fi connection and Samsung account are required.
- The function to automatically activate an emergency mode when an error occurs will be available in November 2024. For the models bought before time, this function will be available via a software update.
- Using the electric heater will increase energy consumption.
- When the EHS system is connected to the internet, the QR code can be found on the display of the AI Home.
- Available in both the ClimateHub and Hydro Unit. The 2-Zone model is equipped with a circulation pump, mixing valve and temperature sensor, which are not included in the Standard model.
- The 2kW and 4kW electric heaters support a single phase, while the 6kW electric heater supports 3 phases. By adding a 3kW backup heater (MHC-300HP), which supports both single and 3 phases, you can create an electric heater that delivers up to 9kW, to provide reliable heating in extremely cold areas. The MHC-300HP is sold separately.
- HASS App available in September 2024. HASS App needs to be connected (via USB or wireless) to the appliance to adjust settings. HASS App and EHS Cloud Service are subject to further terms and conditions.
- Based on internal testing comparing the total heat loss: a conventional ClimateHub tank with PU Foam insulation = 92.3W, a new ClimateHub tank with 3 layered insulation = 42.4W. Based on overall heat transfer rate coefficient: a conventional ClimateHub tank with PU Foam insulation = 92.3W, a new ClimateHub tank with 3 layered insulation = 42.4W. Based on the EU test conditions EN16147, compared to the previous model.
- Wi-Fi connection and Samsung account required. Use a separate laptop/computer to create a Samsung Account.
- Required a connection between the EHS and compatible PV systems and activated using the PV function in AI Home. All the appliances must be connected to the SmartThings App via a Wi-Fi connection using the same Samsung account.
- Available on Android and iOS devices. A Wi-Fi connection and Samsung account are required.
- The SmartThings AI Energy mode, when used by the end-user, can provide users with a possibility to save energy with regard to their domestic hot water usage based on (repeatable) user pattern. The actual energy savings vary and depend on, amongst others, usage and operating conditions. The AI Energy mode may impact the product performance. End-user may deactivate the AI Energy mode at any time.

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ClimateHub

Model Name			AE200DNWMPK/EU	AE200DNXMPK/EU	
		Type	Standard	2-Zone	
Power Source		Φ, V, Hz	1, 220-240, 50 or 3, 380-415, 50		
Operating Range (Water)	Heating	°C	15~75(70/65) ¹	15~75(70/65) ¹	
	Cooling	°C	5~25	5~25	
Sound	Sound Pressure	Heating	26(28) ²	28(30) ²	
		Cooling	26(28) ²	28(30) ²	
	Sound Power	Heating	40(42) ²	42(44) ²	
Dimension (W x H x D)	Net	mm	598 x 1,850 x 600	598 x 1,850 x 600	
	Gross	mm	670 x 2,050 x 740	670 x 2,050 x 740	
Weight	Net	kg	132	142	
	Gross	kg	144	154	
Connection	Refrigerant pipe (To outdoor unit)	Type	-		
		Liquid	Φ, mm	N/A	
		Gas	Φ, mm	N/A	
	Water pipe (To outdoor unit)	Type	-	Straight pipe	Straight pipe
		Inlet	Φ, mm	28	28
		Outlet	Φ, mm	28	28
	Water pipe (Space heating : Primary)	Type	-	Straight pipe	Straight pipe
		Inlet	Φ, mm	28	28
		Outlet	Φ, mm	28	28
	Water pipe (Space heating : 2-zone)	Type	-		Straight pipe
		Inlet	Φ, mm	N/A	28
		Outlet	Φ, mm		28
	Water pipe (DHW)	Type	-	Straight pipe	Straight pipe
		Inlet	Φ, mm	22	22
		Outlet	Φ, mm	22	22
Water pipe (Secondary water return)	Type	-	BSPP male	BSPP male	
	Inlet	Φ, mm	1"	1"	
Water Pump	Type	-	BLDC Inv.	BLDC Inv.	
	Motor Input	W	95	95	
	Max static pressure	mAq	9.0	9.0	
	Number of Unit	EA	1	2	
Backup Heater	Power	kW	1Φ 2/4kW(3Φ 6kW) ³	1Φ 2/4kW(3Φ 6kW) ³	
	Thermostat (Thermal Fuse)	°C	98 (+0 -5)	98 (+0 -5)	
Safety device	Pressure relief valve	bar	2.9	2.9	
	Flow Sensor	LPM	5~60	5~60	
	Temperature & Pressure relief valve (Tank)	bar, °C	10bar, 90°C	10bar, 90°C	
Expansion vessel	Internal water volume	liter	10	10	
	Working pressure	MPa	0.3	0.3	
	Pre pressure	Mpa	0.12	0.12	
Air Vent Valve		Φ, inch	BSPP male 3/8"	BSPP male 3/8"	
Operating Range (Outdoor Temperature)	Heating	°C	-25~35 / -30~43 ⁴	-25~35 / -30~43 ⁴	
	Cooling	°C	10~46	10~46	
	DHW Water	°C	-25~43 / -30~43 ⁵	-25~43 / -30~43 ⁵	

Note

- 1 75°C: AE***CXYP*K/EU Model / 70°C: AE***BXYD*G/EU Model / 65°C: AE***RXYD*G/EU Model.
- 2 "() data" is data when connecting the outdoor unit 12 to 16 kW, and the other 5 to 8 kW.
- 3 "() data" is applied when connecting the 3Φ outdoor unit model, and the other the 1Φ outdoor unit model.
- 4 -25~35°C: AE***CXYP*K/EU Model & AE***RXYD*G/EU Model / -30~43°C: AE***BXYD*G/EU Model.
- 5 -25~43°C: AE***CXYP*K/EU Model & AE***RXYD*G/EU Model / -30~43°C: AE***BXYD*G/EU Model.

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Learn more about Samsung Climate Solutions at:
samsung-climatesolutions.com

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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