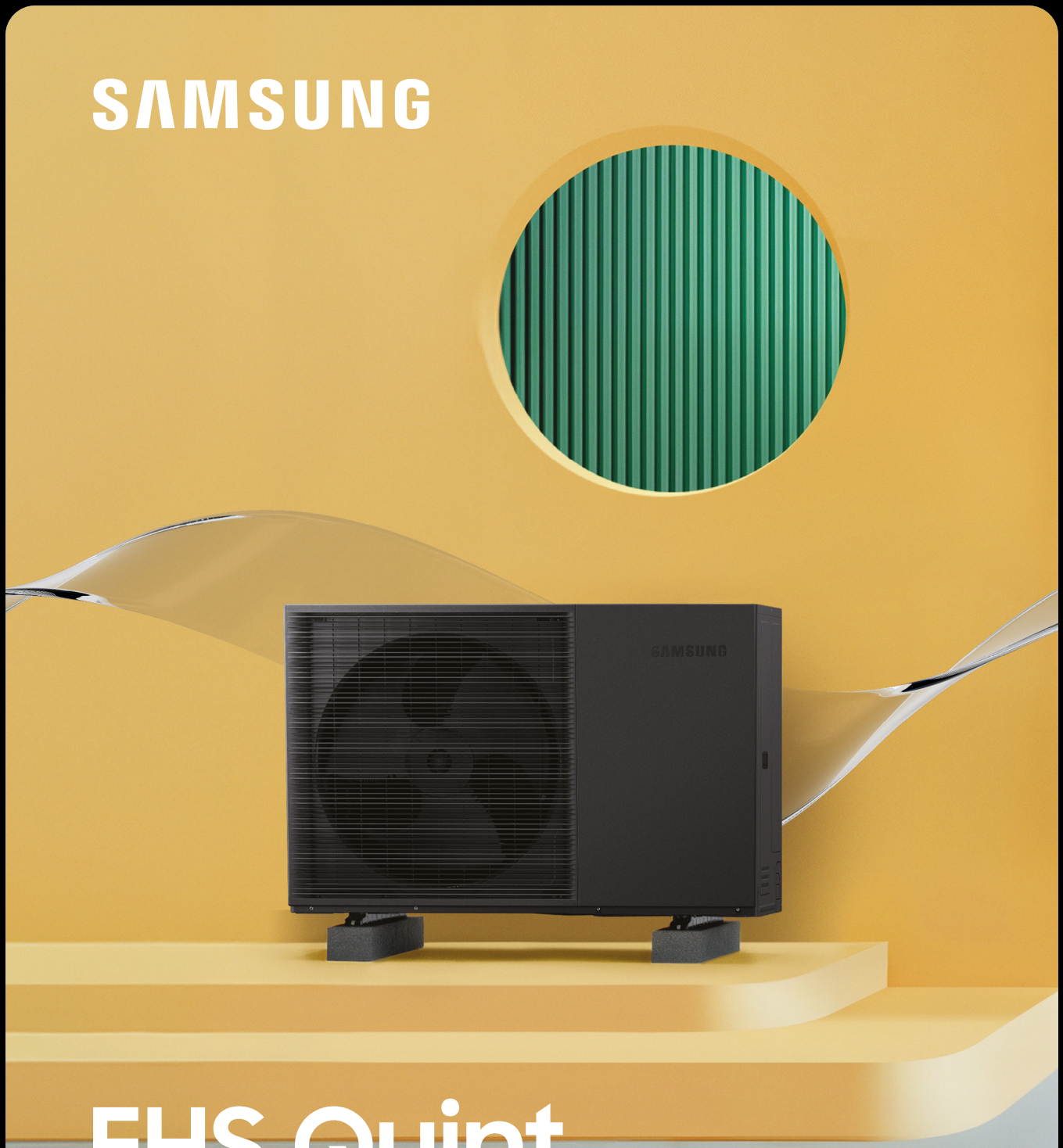
SAMSUNG



EHS Quint

Heating and cooling, simultaneously

Scan to visit the website

Heating and cooling, simultaneously

Meet the first Samsung residential outdoor heat pump delivering heating and cooling at the same time: the EHS Quint of Samsung Climate Solutions. Setting a new standard for residential climate control and regulatory compliance.



A+++ / A++

Samsung's EHS Quint is a compact outdoor unit in a new black design, specifically engineered to deliver simultaneous heating and cooling across air-to-air and air-to-water applications. By combining these capabilities with domestic hot water (DHW) production, EHS Quint enables year-round comfort and operational flexibility in a single solution.

For example, think of a home where one zone needs cooling by using air-to-air units while another zone needs heating via floor heating or radiators supplied by an air-to-water system. That's where EHS Quint comes in.

R32

Refrigerant

Easy to install

Various connections



Smart heat recovery for enhanced comfort

Samsung EHS Quint introduces a new approach to residential climate control with its heat recovery function. During summer, when air-to-air indoor units are cooling the home, the extracted heat is not discharged outdoors. Instead, it can be redirected to the domestic hot water (DHW) tank, making hot water available even while cooling indoor spaces. This allows homeowners to enjoy simultaneous heating and cooling capabilities in a single system.

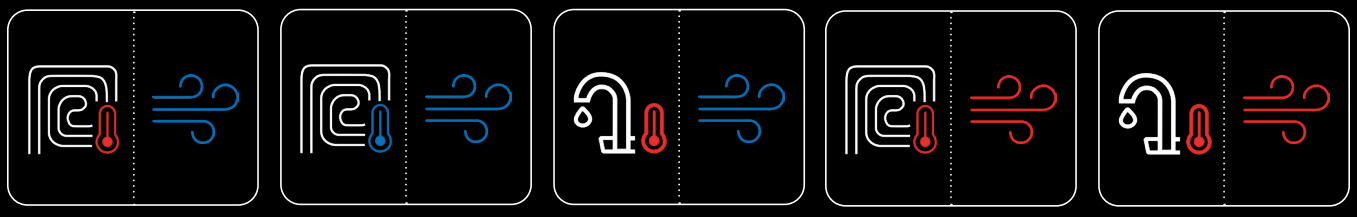
In heat recovery operation, the system supports a combination ratio of up to 200%. This means the connected air-to-water indoor unit can operate at 100% capacity, while the connected air-to-air indoor units can also reach 100% capacity, together totalling up to 200% of the outdoor unit's nominal capacity[1].

For simultaneous operation where the unit is doing air-to-water heating and air-to-air heating at the same time, the system supports a combination ratio of up to 130%. This allows the total connected capacity of air-to-air and air-to-water indoor units to reach 130% of the outdoor unit's capacity[2].

Watch the full video

[1] In heat recovery operation, all air-to-air units are either in cooling mode, while the air-to-water indoor unit is in heating mode, or vice versa. Hence, it's not possible that a part of the air-to-air indoor units is in cooling mode and the other part in heating mode. Neither can the air-to-water indoor unit generate DHW and chilled water for space cooling at the same time.
[2] In simultaneous operation, 130% represents the total indoor capacity that can be connected. Actual output allocation is capped at 100% of the outdoor unit's capacity.

Simultaneous heating and cooling - flexible comfort across multiple zones



A2W heating / A2A Cooling | A2W & A2A Cooling | DHW / Cooling | A2W & A2A Heating | DHW/ Space heating






Designed for flexible multi-room climate control

Samsung EHS Quint is compatible with a broad portfolio of indoor units, providing residential projects with multiple design options. With Samsung's extensive portfolio of direct-expansion indoor units ranging from 1.5 kW to 9 kW, including wall-mounted units, 1-Way Cassettes, LSP ducts and MSP ducts, the system can be tailored to a wide variety of residential layouts and comfort requirements. Designed for multi-room applications, EHS Quint can connect up to seven indoor units, enabling independent cooling control in multiple rooms while eliminating the need for separate standalone air-conditioning systems. In addition, the solution integrates seamlessly with EHS indoor solutions, such as the Control Kit, Hydro Unit, and ClimateHub. This provides installers and designers with further design freedom to configure solutions that match project-specific requirements.





A system prepared for the future

From 2027, European F-gas regulations will significantly restrict the use of high-GWP refrigerants in HVAC systems. Samsung EHS Quint has been engineered with these regulatory changes in mind and exclusively uses R32 refrigerant for the available capacities in 12.5kW and 16kW. Beyond regulatory readiness, the use of R32 enables EHS Quint to deliver water temperatures up to 65°C[3], supporting a wide range of heating applications in both new buildings and renovation projects.

[3] Leaving water temperature up to 65°C when the outdoor temperature is -5°C~35°C. Results may vary depending on the actual usage conditions.



Reliable performance and quiet operation

The new EHS Quint has been engineered to maintain 100% heating capacity even at temperatures as low as -15°C[4], ensuring consistent comfort throughout the cold days. Its ambient operating range for DHW production has been extended from +35°C to +43°C[5], allowing DHW generation even during heat waves without relying on the electrical heater. EHS Quint also operates more quietly[6] than the previous R410A EHS TDM+ unit and includes a Night Mode that lowers noise levels to just 35dB(A), providing a peaceful indoor environment during nighttime hours.

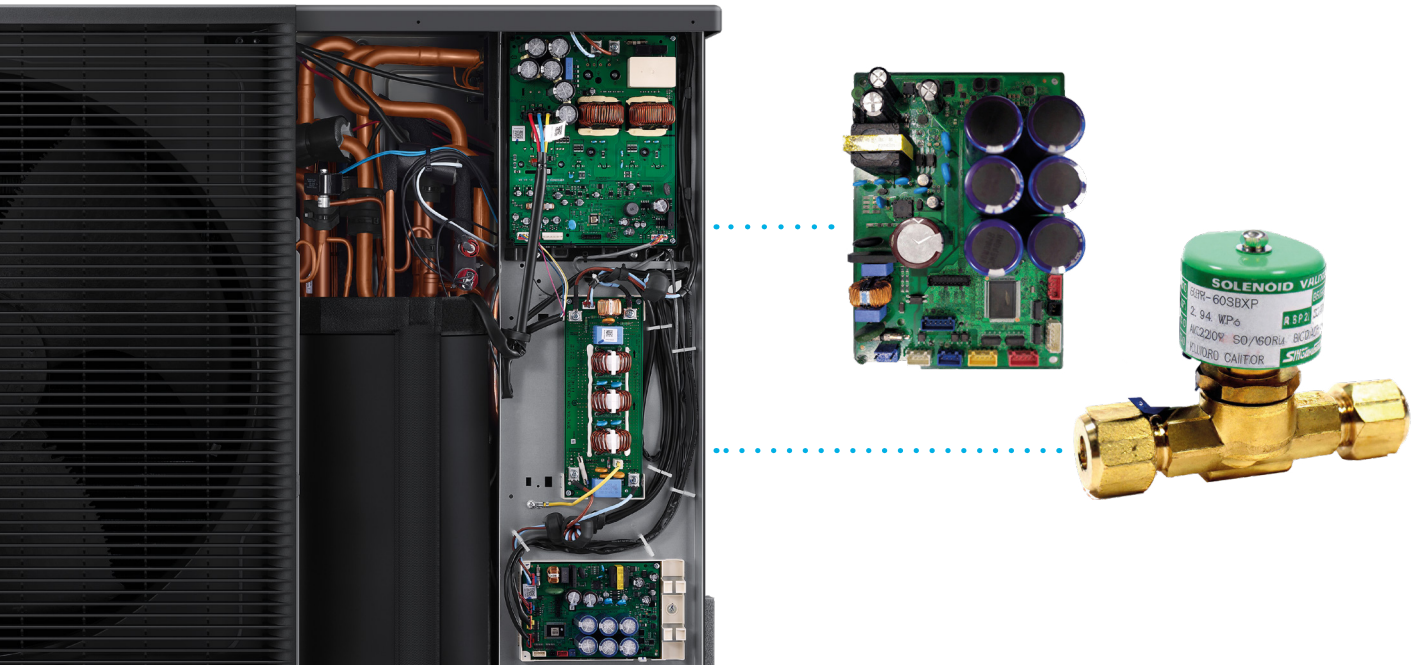
[4] EHS Quint (AE125DHCTP*S) outdoor unit, compared to a conventional EHS R410A TDM+ outdoor unit (AE120MXTP*H). Results may vary depending on the actual usage conditions 100% performance of AE160HCTP*S is provided as low as -10°C .
[5] Operation temperature performance is compared to EHS TDM+ with the equivalent capacity.
[6] Noise level improvements are compared to standard Samsung's R32 Mono and previous generation TDM+ systems under Measurement Method ISO 3741 at full load at A7W35 conditions.



Easy installation and built-in safety

Air-to-air indoor units utilize direct expansion technology, allowing certified installers[7] to work with refrigerant piping and simplifying renovation projects while providing greater flexibility in routing. Connections from the outdoor unit to the ClimateHub or Hydro Unit, however, use water piping, which simplifies handling and integration. Both outdoor and indoor units are equipped with essential safety systems, including leak-detection sensors, shut-off valves, alarm functions, and other integrated protections. These features ensure compliance with A2L standards according to IEC 60335-2-40:2018 and EN 378-1:2016, while also saving time and effort during installation.

[7] (F-gas) Certified installer required for all installations, according to regulations and Samsung guidelines.



EHS Quint

- Production of hot water to a maximum temperature of 65 °C*
- Premium Design
- Ideal for new build and renovation applications
- Generates a low noise level (35dB) in Quiet mode
- Operation mode in simultaneous operation, Heat Recovery and TDM**
- Required safety equipment is embedded
- SmartThings compatible
- Controller included
- 100% Heating Capacity at -15°C for AE125HCTP*S/EU & 100% Heating Capacity at -10°C for AE160HCTP*S/EU
- Low Ambient temperature operation, even at -25°C
- Easy installation and maintenance
- Climatehub Mono embedded with Wifi module
- Compatible with up to 10 Air to Air indoor units like Wall mounted, Duct and cassette





			Indoor Unit	AE200DN*MPK/EU	AE200DN*MPK/EU	AE160DN*MPK/EU	AE160DN*MPK/EU	MIM-E03FN	MIM-E03FN
			Outdoor Unit	AE125HCTPES/EU	AE160HCTPES/EU	AE125HCTPES/EU	AE160HCTPES/EU	AE125HCTPES/EU	AE160HCTPES/EU
				AE125HCTPGS/EU	AE160HCTPGS/EU	AE125HCTPGS/EU	AE160HCTPGS/EU	AE125HCTPGS/EU	AE160HCTPGS/EU
System									
Operation									
Nominal Capacity	**Heating A7/W35[1] / A7/W55[2]**	**kW**		12,5/12,1	16/16	12,5/12,1	16/16	12,5/12,1	16/16
	Cooling A35/W18[1]	**kW**		12,5	14,5	12,5	14,5	12,5	14,5
COP (Nominal Heating) A7/W35[1] / A7/W55[2]		**W/W**		4,66/2,9	4,42/2,87	4,66/2,9	4,42/2,87	4,66/2,9	4,42/2,87
EER (Nominal Cooling) A35/W18[1]		**W/W**		3.91	3.90	3.91	3.90	3.91	3.90
SCOP LWT 35°C/ 55°C		**W/W**		6,67/3.32	4,64/3.31	6,67/3.32	4,64/3.31	6,67/3.32	4,64/3.31
Seasonal Space Heating Eff. class* LWT 35°C/ 55°C"**		**-**		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Tank Integrated /Hydro Unit/ control kit									
Water Tank Volume		**litres**		200	200	N.A.	N.A.	N.A.	N.A.
Sound									
Sound Pressure[4]	**Heating Std**	**dB(A)**		28[3]	28[3]	30[3]	30[3]	N.A.	N.A.
	Cooling Std	**dB(A)**		28[3]	28[3]	30[3]	30[3]	N.A.	N.A.
Sound Power	**Heating Std**	**dB(A)**		42[3]	42[3]	44[3]	44[3]	N.A.	N.A.
Heater									
Back-up heater Capacity	**Default (Option)**	**kW**		2 (4/6)[4]	2 (4/6)[4]	2 (4/6)[4]	2 (4/6)[4]	Optional	Optional
Dimensions									
Net Weight		**kg**		132	132	54	54		
Net Dimensions (WxHxD)		**mm**		598 x 1,850 x 600	595 x 1,800 x 700	530 x 840 x 350	530 x 840 x 350		
Outdoor Unit									
Sound									
Sound Pressure[4]	**Heating Std**	**dB(A)**		49	49	49	49	49	49
	Cooling Std	**dB(A)**		55	51	55	51	55	51
Sound Power	**Heating Std**	**dB(A)**		62	62	62	62	62	62
Dimensions									
Net Weight		**kg**		126,5	126,5	126,5	126,5	126,5	126,5
Net Dimensions (WxHxD)		**mm**		1270 x 850 x 500	1270 x 850 x 500	1270 x 850 x 500	1270 x 850 x 500	1270 x 850 x 500	1270 x 850 x 500
Refrigerant									
Type						R32 (GWP=675)			
Factory Charging		**tCO_2e**		1,82	1,82	1,82	1,82	1,82	1,82
		kg		2,7	2,7	2,7	2,7	2,7	2,7
Operation									
Ambient Temperature	**Heating**	**°C**		-25~24	-25~24	-25~24	-25~24	-25~24	-25~24
	Cooling	**°C**		10~43	10~43	10~43	10~43	10~43	10~43
	DHW	**°C**		-25~43	-25~43	-25~43	-25~43	-25~43	-25~43

* Leaving water temperature up to 65°C when the outdoor temperature is -5°C~35°C. Results may vary depending on the actual usage conditions.
** In heat recovery operation, all air-to-air units are either in cooling mode, while the air-to-water indoor unit is in heating mode, or vice versa. Hence, it's not possible that a part of the air-to-air indoor units is in cooling mode and the other part in heating mode. Neither can the air-to-water indoor unit generate DHW and chilled water for space cooling at the same time.
*** 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 The backup heater capacity for the climate hub and Wall mounted can be changed by filled setting value, for the single-phase unit, it is 2 & 4kW and the 3 phase unit it's 2,4 and 6kW

Controls and Accessories












Touch Controller for A2A IDU	Wired Remote Controller	Touch Controller 2.0	Mono Control Kit	DMS2.5 - Centralized Web Server	Wi-Fi Kit	External Room Sensor	Backup Heater (3kW)	Extension Wire Kit	2-zone Thermistor Kit
MWR-WG01UN	MWR-WW10*N	MCM-A300BN	MIM-E03FN	MIM-D01AN	MIM-H04EN	MRW-TA	MHC-300FP	MVW-EE300	MOS-T1

Outdoor unit

Capacity	1 Phase	3 Phase
(kW)		
12.5	AE125HCTPES/EU	AE125HCTPGS/EU
16	AE160HCTPES/EU	AE160HCTPGS/EU

Air to Air indoor units

Capacity	Wall mounted	LSP Ducted	MSP Ducted	WindFree 1-way Cassette
(kW)				
1.5	AE015HEADKG/EU	-	-	-
1.7	-	-	-	AM017DN1DKG/EU
2.2	AE022HEADKG/EU	AM022DNLDKG/EU	-	AM022DN1DKG/EU
2.8	AE028HEADKG/EU	AM028DNLDKG/EU	-	AM028DN1DKG/EU
3.6	AE036HEADKG/EU	AM036DNLDKG/EU	AM036DNMDKG/EU	AM036DN1DKG/EU
5.6	AM056DNVDKG/EU	AM056DNLDKG/EU	AM056DNMDKG/EU	AM056DN1DKG/EU
7.1	AM071DNVDKG/EU	-	AM071DNMDKG/EU	-
9.0	-	-	AM090DNMDKG/EU	-

Air to Water indoor units

Control Kit	Tank Integrated Hydro Unit		Wall Mounted Hydro Unit		Control Kit
	2ZONE	STANDARD	2ZONE	STANDARD	-
	AE200DNXMPK/EU	AE200DNWMPK/EU	AE160DNZMPK/EU	AE160DNYMPK/EU	MIM-E03FN
					
Capacity	16kW	16kW	16kW	16kW	N.A.
Volume	200 Liter	200 Liter	N.A.	N.A.	N.A.

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Find your flow.

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

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