

Samsung EHS at A Glance

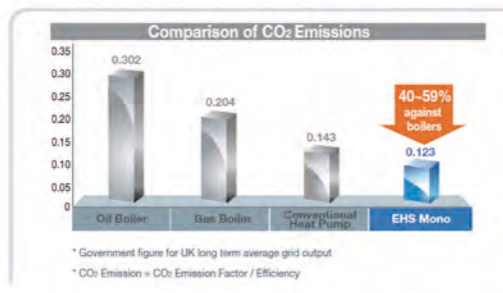
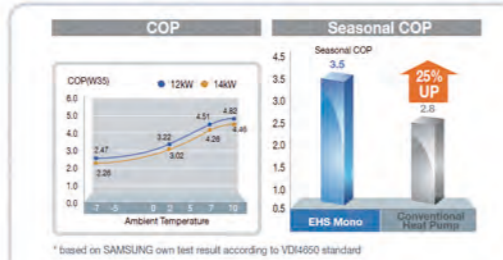
Model Name				RC090MHXEA	RC160MHXEA
Power Supply		Ø, #, V, Hz		1, 2, 220-240, 50	1, 2, 220-240, 50
Performance	(A2W #1)				
Capacity *1)	Nominal	Heating	W	9,000	16,000
			Btu/h	30,700	54,600
		Cooling	W	10,000	17,000
			Btu/h	34,100	58,000
Power Input *1)	Nominal	Heating	W	2,090	3,810
		Cooling	W	2,860	5,860
Current Input *1)	Nominal	Heating	A	9.9	17.1
		Cooling	A	13.5	25.5
		COP (Heating) *1)	W/W	4.3	4.2
		EER (Cooling) *1)	W/W	3.5	2.9
		ESEER *2)	W/W	5.6	5.98
Performance					
(A2W, Low Temperature)	A2/W35	Heating Capacity	W	8,390	13,840
		COP	W/W	3.34	3.23
	A-7/W35	Heating Capacity	W	8,290	14,880
		COP	W/W	2.48	2.58
Electric Specification	MCA	A		22	32
	MFA	A		27.5	40
Water side	Required Water Pressure	bar		Max. 2.8	Max. 2.8
	Required Flow Rate	LPM		Min. 16.0	Min. 16.0
Piping Connections	In/Out	Ø, inch		1"(BSPP)	1"(BSPP)
Refrigerant Side	Compressor Type	-		Rotary Inverter	Rotary Inverter
	Oil Type	-		POE	POE
	Refrigerant Type	-		R410A	R410A
Base Heater	Capacity	-		150	150
Sound	Sound				
Pressure *3)	Heating	dB(A)		50	53
	Cooling	dB(A)		51	54
Weight	Net	kg		75	103
	Gross	kg		83	113
Dimensions					
(WxHxD)	Net	mm		940x998x330	940x1,420x330
	Gross	mm		995x1,096x426	995x1,548x426
Operating Range					
	Ambient				
(A2W)	Heating	°C		-20~35	-20~35
	Cooling	°C		10~46	10~46
	DHW	°C		-20~43	-20~43
Leaving Water	Heating	°C		25~55	25~55
	Cooling	°C		5~25	5~25

*1~2) A2W rating conditions in accordance with Eurovent Rating Standard for Liquid Chilling Packages RS-6/C/001-2011. *1) A2W Condition #1 : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°CDB/6°CWB; (Cooling) Water In/Out 23°C/18°C, Outdoor Air DB 35°C. *2) A2W Condition for ESEER (Cooling) at Water Out 7°C. *3) Sound Pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Low running cost
High efficiency heat pump technology will reduce running cost. Samsung EHS Mono can reduce approximately up to 36~60% of running costs compare to conventional boiler systems. High efficiency technology, low running cost.



Low CO2 emission
Samsung EHS has proven its optimizes heating performances at the actual operating temperature, -2°C to 2°C, providing an outstanding SCOP in compliance with eco-design directives. Samsung EHS Mono has substantially reduced CO2 emissions compare to conventional boiler systems due to high-efficiency.



SAMSUNG Eco Heating Systems



Learn More by Visiting
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Space for Partnership Details

What is a Samsung EHS Smart Heating System

Smart Heating is the term Samsung uses to describe its air source heat pump technology. Air Source Heat Pumps use electricity to create heat using a system very similar to that of a domestic refrigerator, when a fridge is getting cold inside, you can feel warmth being generated at the back.

Samsung's EHS Smart Heating system reverses this cycle giving the cold to outside and generating warmth inside which is transferred to water to travel round radiators or underfloor heating and to provide hot water for storage for washing etc.

Why Do You Need Samsung Smart Heating?



Serious global warming!
Human activity has resulted in an increase in Greenhouse gas emissions (CO2).



Oil is running out!
As the oil price is getting higher, we need renewable energy resources.



Un-Sustainable Resources
Rising oil prices have led to the associated operating costs of heating a home to increase.



Samsung EHS
Samsung's system can be integrated into your home and provide heating, hot water supply and air conditioning using only one system.



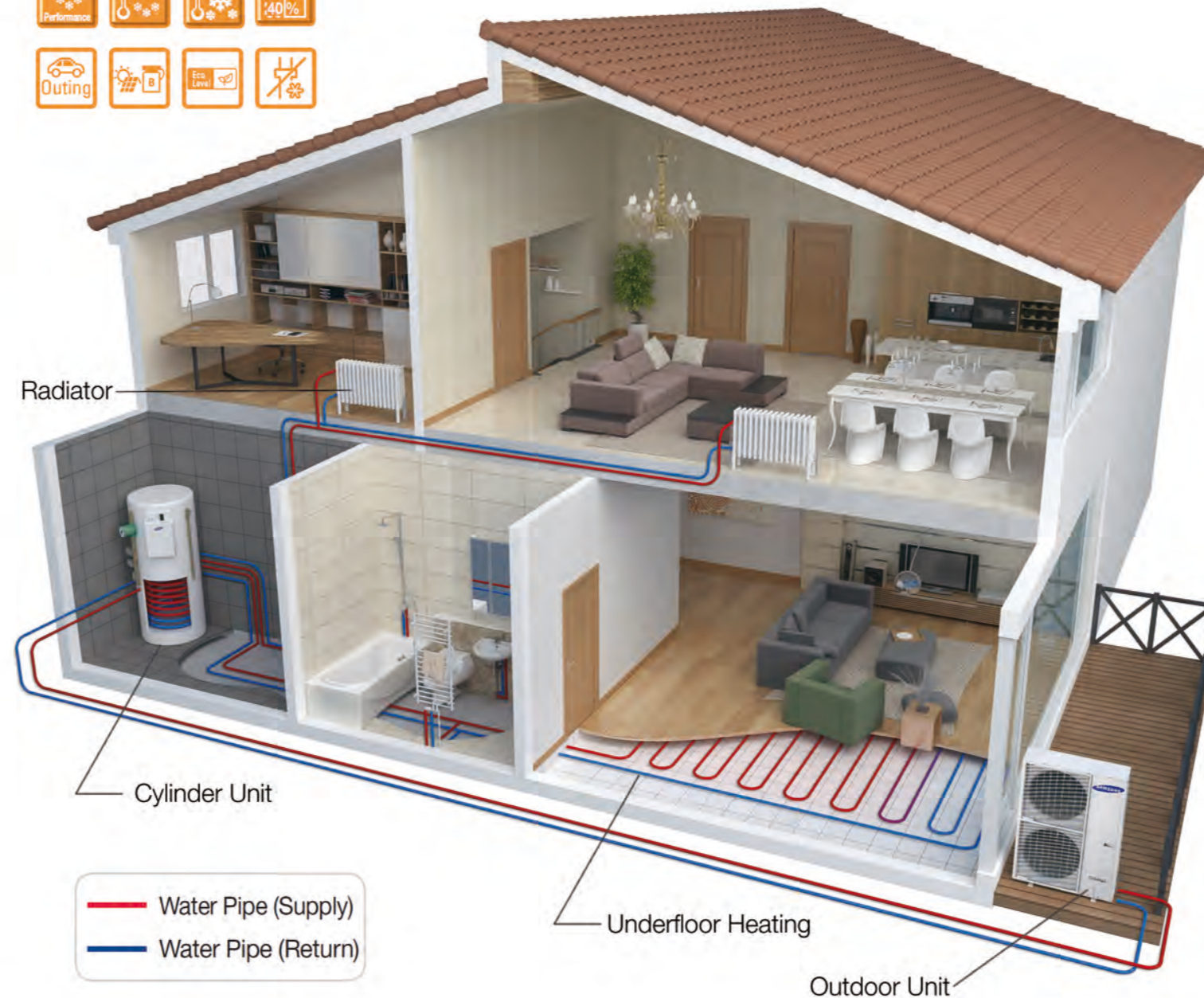
Save money
Samsung's EHS, can reduce your running costs by up to a 30% compared to a standard gas boiler system.



Government Incentives
Because Samsung EHS is so efficient it will allow you to benefit from new grants such as the Renewable Heat Incentive and the Green Deal.

Simple & Elegant

EHS Mono uses outdoor unit that includes the hydronic parts. Therefore it does not require space or installation process for hydro units and the refrigerant pipes.

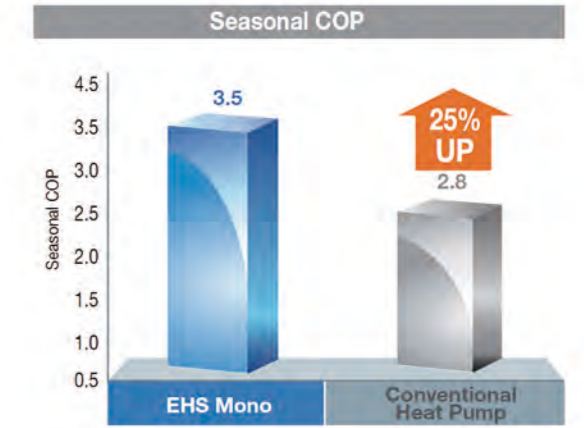


Optimized Seasonal Efficiency

• Optimizes heating performances at the actual operating temperature -2°C to 2°C .

• Provides an outstanding SCOP in compliance with British Eco-Design directives.

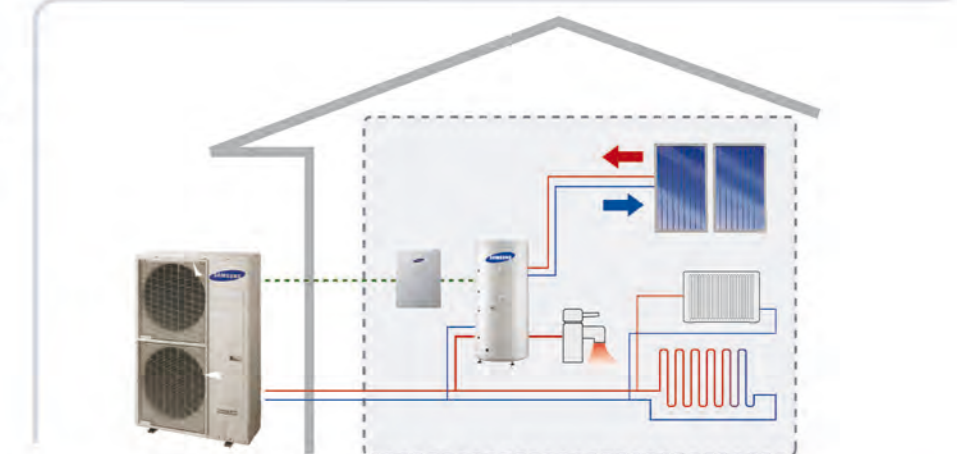
* PEE (Primary Energy Efficiency) = 1.5 (based on SAMSUNG own test result according to VDI4650 standard)



Versatile Connectivity

A2W Space heating and sanitary hot water. Compatible with hybrid energy sources (field supply):

- Solar Thermal Panels
- Back-up Boiler
- Existing Gas Boiler
- Existing Oil Boiler
- Existing LPG Boiler
- Log Burners
- Solid Fuel Ovens



Compact and light outdoor units

Smaller outdoor units for quick and easy installation. No more time or money spent on expensive refrigeration pipework. Compact and light outdoor units comparably save installation labor and cost, great for both installers and customers.

