

Samsung EHS Monobloc GEN5

Air Source Heat Pump



The next generation of Air Source Heat Pump

Extremely quiet operation (50db(A) at 1 metre)

Internal MIM Control Kit significantly reduces electrical works required

Lightweight construction ensuring many mounting options

Simple Installation and Commissioning

The Next Generation Air Source Heat Pump

The Samsung EHS GEN5 is the latest generation in Samsung's successful range of MCS accredited air source heat pumps.

Samsung, as the 8th most valuable brand in the world, have a deserved reputation for innovation and quality.



7 year warranty as standard

SAMSUNG



Models shown are the AE090 and the AE160 from the Samsung EHS range. Other models in this line may vary.

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Air Source Heat Pump

While they were a relatively latecomer to the air source heat pump market in 2011, Samsung brought with them a solution to many of the problems that earlier manufacturers had encountered. Innovations such as commissioning information designed around a specific type of installation and an extremely lightweight chassis meant that installation and commissioning was some of the easiest ever seen from a heat pump.

The Samsung EHS GEN5 range has been designed with flexibility in mind. Installers have the capability to incorporate many different fuel sources, as well as the ability to cascade multiple units for a single installation. This means that no matter the complexity of the project, Samsung will offer a solution.

Technical Specification for the Samsung EHS

Model	AE050	AE090	AE120	AE160
Heating nominal capacity [kW] ¹⁾	5	9	12	16
Heating nominal current input [A] ¹⁾	5.1	9.2	12	17.1
SCOP @ 35°C ¹⁾	4.51	4.41	4.45	4.48
Compressor type	BLDC Twin Rotary			
Refrigerant volume - R410A [kg]	1.15	1.4	2.6	2.6
Heating system maximum flow [l/s]	0.24	0.43	0.58	0.77
Operating temperature range [°C]	-25 to +35			
Piping connections	BSPP 1"			
Electricity supply	220-240V Single Phase			
Max current [A]	16	22	28	32
Sound pressure [dBA] ²⁾	45	48	50	52
Sound power [dBA]	61	63	64	66
Dimensions (H x W x D) [mm]	798 x 880 x 310	998 x 940 x 330	1420 x 940 x 330	1420 x 940 x 330
Net Weight [kg]	59	76	108	108

¹⁾ A2W Condition #1: (Heating) Water in/out 30°C/35°C, Outdoor air 7°CDB/6°CDB

²⁾ Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Technical Specification for the Samsung EHS Control Kit



Model	MIM-E03AN	MIM-E03BN
To use with	9, 12, 16	5
Electricity supply	220-240V Single Phase	
Dimensions (H x W x D) [mm]	370 x 290 x 110	
Net weight [kg]	3.5	

*External control options - 230V: (Max A)
 Booster heater (20A), hybrid (0.5A), water pump (2A), 2/3 way mixing valve (0.5A)
 Thermostat (10mA), solar pump (10mA), Inverter pump, (2A), 3 way mixing valve (0.5A)