

Subtype Samsung EHS R290 Mono 8kW (space heating/ 260L)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
Address	Evert van de Beekstraat 310
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City	Schiphol
Country	NL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Samsung EHS R290 Mono 8kW (space heating/ 260L)
Registration number	011-1W0688
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.87 kg
Certification Date	26.09.2023
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 12 (as of 2023-03)

Model AE080CXYDGK/EU + MIM-E03EN

Model name	AE080CXYDGK/EU + MIM-E03EN
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	191 %	139 %
Prated	8.00 kW	8.00 kW
SCOP	4.85	3.55
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.08 kW	7.08 kW
COP Tj = -7°C	2.70	2.02
Cdh Tj = -7 °C		
Pdh Tj = +2°C	4.31 kW	4.31 kW
COP Tj = +2°C	4.70	3.44
Cdh Tj = +2 °C		
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	7.00	5.05
Cdh Tj = +7 °C		
Pdh Tj = 12°C	2.40 kW	2.40 kW
COP Tj = 12°C	9.00	6.00
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	7.10 kW	7.08 kW
COP Tj = Tbiv	2.70	2.02

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.40 kW	7.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.60 kW	0.70 kW
Annual energy consumption Qhe	3 kWh	4 kWh

Model AE080CXYDEK/EU + AE260CNWMEG/EU

Model name	AE080CXYDEK/EU + AE260CNWMEG/EU
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	103 %
COP	2.50
Heating up time	1:50 h:min
Standby power input	85.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	305 l

Model AE080CXYDGK/EU + AE260CNWMGG/EU

Model name	AE080CXYDGK/EU + AE260CNWMGG/EU
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	103 %
COP	2.50
Heating up time	1:50 h:min
Standby power input	85.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	305 l