

Subtype Samsung EHS R290 Mono 8kW (space heating/ 200L)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
Address	Evert van de Beekstraat 310
ZIP	1118 CX
City	Schiphol
Country	NL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Samsung EHS R290 Mono 8kW (space heating/ 200L)
Registration number	011-1W0687
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 AE080CXYDEK/EU + MIM-E03EN

Model name	AE080CXYDEK/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	1x230V 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.63 kW	2.67 kW
COP	4.91	3.00

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	3398 kWh	4646 kWh

Model AE080CXYDEK/EU + AE200CNWMEG/EU

Model name	AE080CXYDEK/EU + AE200CNWMEG/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	L
Efficiency η_{DHW}	115 %
COP	2.65
Heating up time	1:25 h:min
Standby power input	75.0 W
Reference hot water temperature	52.1 °C
Mixed water at 40°C	210 l

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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
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EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
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
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Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	7.00	5.05
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PTO	22 W	22 W
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.60 kW	0.70 kW
Annual energy consumption Qhe	3398 kWh	4646 kWh

Model AE080CXYBEK/EU		
Model name	AE080CXYBEK/EU	
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	1x230V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
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Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

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