

## Subtype Samsung EHS R290 Mono 5kW (space heating/ 200L)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
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City	Schiphol
Country	NL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Samsung EHS R290 Mono 5kW (space heating/ 200L)
Registration number	011-1W0686
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.63 kg
Certification Date	26.09.2023
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 12 (as of 2023-03)

## Model AE050CXYDEK/EU & MIM-E03EN

Model name	AE050CXYDEK/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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	201 %	141 %
Prated	5.50 kW	5.50 kW
SCOP	5.10	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.90 kW
COP Tj = -7°C	3.06	2.15
Cdh Tj = -7 °C		
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	5.08	3.56
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.90 kW	1.90 kW
COP Tj = +7°C	6.85	4.85
Cdh Tj = +7 °C		
Pdh Tj = 12°C	1.90 kW	1.70 kW
COP Tj = 12°C	8.40	5.80
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	4.90 kW	4.90 kW
COP Tj = Tbiv	3.03	2.15

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	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	2 kWh	3 kWh

## Model AE050CXYDEK/EU &amp; AE200CNWMEG/EU

Model name	AE050CXYDEK/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 $\eta_{DHW}$	115 %
COP	2.65
Heating up time	2:20 h:min
Standby power input	75.0 W
Reference hot water temperature	52.1 °C
Mixed water at 40°C	210 l