Subtype Samsung EHS R290 Mono 5kW (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 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)

This information was generated by the HP KEYMARK database on 25.09.2025

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 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	0.98 kW	1.61 kW
COP	5.10	3.10

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
ηs	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	4.87 kW
COP Tj = -7°C	3.06	2.15
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	5.08	3.56
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	1.90 kW

COP Tj = +7°C	6.85	4.85
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.85 kW	1.70 kW
COP Tj = 12°C	8.40	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.87 kW
COP Tj = Tbiv	3.06	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	2221 kWh	3148 kWh

This information was generated by the HP KEYMARK database on 25.09.2025

Model AE050CXYDEK/EU & 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 ηDHW	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

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	5.00 kW	5.00 kW
El input	0.98 kW	1.61 kW
COP	5.10	3.10

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	201 %	141 %

This information was generated by the HP KEYMARK database on 25.09.2025

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	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	5.08	3.56
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	1.90 kW
COP Tj = +7°C	6.85	4.85
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.85 kW	1.70 kW
COP Tj = 12°C	8.40	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.90 kW
COP Tj = Tbiv	3.06	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	2221 kWh	3148 kWh

This information was generated by the HP KEYMARK database on 25.09.2025

Model AE050CXYBEK/EU		
Model name	AE050CXYBEK/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		
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	5.00 kW	5.00 kW
El input	0.98 kW	1.61 kW
COP	5.10	3.10
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
ηs	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	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	5.08	3.56
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	1.90 kW

This information was generated by the HP KEYMARK database on 25.09.2025

COP Tj = +7°C	6.85	4.85
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.85 kW	1.70 kW
COP Tj = 12°C	8.40	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.90 kW
COP Tj = Tbiv	3.06	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	4.80 kW
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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	2221 kWh	3148 kWh

This information was generated by the HP KEYMARK database on 25.09.2025

Model AE050CXYDEK/EU & AE200RNWMEG/EU	
Model name	AE050CXYDEK/EU & AE200RNWMEG/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 ηDHW	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

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	5.00 kW	5.00 kW
El input	0.98 kW	1.61 kW
COP	5.10	3.10

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	201 %	141 %

This information was generated by the HP KEYMARK database on 25.09.2025

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	4.87 kW
COP Tj = -7°C	3.06	2.15
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	5.08	3.56
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	1.90 kW
COP Tj = +7°C	6.85	4.85
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.85 kW	1.70 kW
COP Tj = 12°C	8.40	5.80
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Pdh Tj = Tbiv	4.87 kW	4.87 kW
COP Tj = Tbiv	3.06	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	2221 kWh	3148 kWh

This information was generated by the HP KEYMARK database on 25.09.2025