Subtype Samsung EHS R32 Split 9kW (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 R32 Split 9kW (space heating/200L)
Registration number	011-1W0454
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	26.01.2021
Testing basis	HP KEYMARK certification scheme rules V7

Model AE090RXEDEG/EU & AE200RNWSEG/EU

Model name	AE090RXEDEG/EU & AE200RNWSEG/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	119 %
COP	2.92
Heating up time	2:00 h:min
Standby power input	58.0 W
Reference hot water temperature	52.1 °C
Mixed water at 40°C	206 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	9.00 kW	8.00 kW
El input	1.87 kW	2.73 kW
COP	4.81	2.93

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	175 %	127 %
Prated	9.00 kW	8.00 kW

SCOP	4.45	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	7.10 kW
COP Tj = -7°C	2.64	1.76
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.60 kW	4.30 kW
COP Tj = +2°C	4.17	3.23
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	6.53	4.62
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.70 kW	2.60 kW
COP Tj = 12°C	8.87	5.88
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	7.50 kW	7.10 kW
COP Tj = Tbiv	2.64	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.70 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.32	1.35
WTOL	65 °C	65 °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	2.30 kW	3.10 kW
Annual energy consumption Qhe	3949 kWh	5103 kWh