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Summary of	Samsung EHS R32 Mono 5kW (space heating/ 200L)	Reg. No.	011-1W0448
Certificate Holder			
Name	Samsung Electronics Air Conditioner Europe B.V.		
Address	Evert van de Beekstraat 310	Zip	1118 CX
City	Schiphol	Country	Netherlands
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Samsung EHS R32 Mono 5kW (space heating/ 200L)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1 kg		
Certification Date	26.01.2021		
Testing basis	HP KEYMARK certification scheme rules V7		

Model: AE050RXYDEG/EU & MIM-E03CN

Configure model	
Model name	AE050RXYDEG/EU & MIM-E03CN
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.00 kW	4.31 kW
El input	1.03 kW	1.52 kW
COP	4.85	2.83

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	175 %	125 %
Prated	6.00 kW	5.00 kW
SCOP	4.46	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.42 kW
COP Tj = -7°C	2.99	2.16
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.96 kW	2.69 kW
COP Tj = +2°C	4.18	3.17
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	1.90 kW	1.73 kW
COP Tj = +7°C	6.11	4.03
Cdh Tj = +7 °C	0.90	0.90

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Pdh Tj = 12°C	1.88 kW	1.70 kW
COP Tj = 12°C	7.70	4.73
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.87 kW	4.42 kW
COP Tj = Tbiv	2.99	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.60 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.00
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	1.40 kW	0.80 kW
Annual energy consumption Qhe	2548 kWh	3224 kWh

Model: AE050RXYDEG/EU & AE200RNWMEG/EU

Configure model	
Model name	AE050RXYDEG/EU & AE200RNWMEG/EU
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.00 kW	4.30 kW
El input	1.03 kW	1.52 kW
COP	4.85	2.83

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
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EN 14825

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Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.96 kW	2.69 kW
COP Tj = +2°C	4.18	3.17
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	1.90 kW	1.73 kW
COP Tj = +7°C	6.11	4.03
Cdh Tj = +7 °C	0.90	0.90

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COP Tj = 12°C	7.70	4.73
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.87 kW	4.42 kW
COP Tj = Tbiv	2.99	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.59 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.00
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	1.41 kW	0.80 kW
Annual energy consumption Qhe	2548 kWh	3224 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147	
Declared load profile	L
Efficiency η_{DHW}	115 %
COP	2.86
Heating up time	2:20 h:min
Standby power input	58.0 W
Reference hot water temperature	52.1 °C
Mixed water at 40°C	225 l