

This information was downloaded from the HP KEYMARK database on 9 Apr 2020

Summary of	Samsung EHS R32 Mono 12kW & 16kW (space heating/ 200L)	Reg. No.	007-CU0104
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	Kiwa Nederland B.V.		
Name of testing laboratory	Kiwa Nederland B.V.		
Subtype title	Samsung EHS R32 Mono 12kW & 16kW (space heating/ 200L)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	HFC-32		
Mass Of Refrigerant	2.2 kg		
Certification Date	29.11.2019		
Testing basis	HP KEYMARK certification scheme rules V7		

Model: AE120RXYDEG/EU & AE200RNWMEG/EU

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	12.00 kW	11.30 kW
El input	2.65 kW	3.73 kW
COP	4.53	3.03
Indoor water flow rate	2.08 m ³ /h	1.22 m ³ /h

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

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	185 %	138 %
Prated	13.00 kW	12.00 kW
SCOP	4.69	3.51
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.50 kW	10.62 kW
COP Tj = -7°C	2.71	2.16
Cdh	0.90	0.90
Pdh Tj = +2°C	7.00 kW	6.46 kW
COP Tj = +2°C	4.48	3.45
Cdh	0.90	0.90
Pdh Tj = +7°C	5.60 kW	4.15 kW
COP Tj = +7°C	6.86	4.57

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Cdh	0.90	0.90
Pdh Tj = 12 °C	4.80 kW	4.40 kW
COP Tj = 12 °C	8.95	6.12
Cdh	0.90	0.90
Pdh Tj = Tbiv	11.50 kW	10.62 kW
COP Tj = Tbiv	2.71	2.16
Pdh Tj = TOL	13.00 kW	12.00 kW
COP Tj = TOL	2.37	1.96
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	Electrical	Electrical
Supplementary Heater: PSUP	2.00 kW	2.00 kW
Annual energy consumption Qhe	5725 kWh	7051 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	2.72
Heating up time	1:30 h:min
Standby power input	62.0 W
Reference hot water temperature	52.1 °C
Mixed water at 40°C	225 l

Model: AE120RXYDEG/EU & MIM-E03CN

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	12.00 kW	11.30 kW
El input	2.65 kW	3.73 kW
COP	4.53	3.03
Indoor water flow rate	2.08 m ³ /h	1.22 m ³ /h

EN 14511-4

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Complete power supply failure	passed
Defrost test	passed
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Poff	22 W	22 W
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PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	2.00 kW	2.00 kW
Annual energy consumption Qhe	5725 kWh	7051 kWh

Model: AE160RXYDEG/EU & AE200RNWMEG/EU

General Data

Power supply	1x230V 50Hz
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Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	176 %	138 %
Prated	16.00 kW	16.00 kW
SCOP	4.48	3.53
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.15 kW	14.15 kW
COP Tj = -7°C	2.65	2.06
Cdh	0.90	0.90
Pdh Tj = +2°C	8.62 kW	8.62 kW

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COP Tj = +2°C	4.11	3.31
Cdh	0.90	0.90
Pdh Tj = +7°C	5.54 kW	5.54 kW
COP Tj = +7°C	6.86	5.23
Cdh	0.90	0.90
Pdh Tj = 12°C	5.20 kW	4.49 kW
COP Tj = 12°C	8.81	6.35
Cdh	0.90	0.90
Pdh Tj = Tbiv	14.15 kW	14.15 kW
COP Tj = Tbiv	2.65	2.06
Pdh Tj = TOL	13.80 kW	14.00 kW
COP Tj = TOL	2.37	1.82
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	Electrical	Electrical
Supplementary Heater: PSUP	2.00 kW	2.00 kW
Annual energy consumption Qhe	7385 kWh	9379 kWh

Heating

EHPA Secretariat | Rue d'Arlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com

Disclaimer: this document is a summary of the certified performance.

The authoritative source of this information is the heat pump certificate as executed by the certification body and the related technical data.

EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.00 kW	15.00 kW
El input	3.62 kW	5.18 kW
COP	4.42	2.90
Indoor water flow rate	2.77 m ³ /h	1.63 m ³ /h

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