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Summary of	Samsung EHS R32 Mono 12kW & 16kW (space heating/ 260L)	Reg. No.	011-1W0447
Certificate Holder			
Name	Name Samsung Electronics Air Conditioner Europe B.V.		
Address	Evert van de Beekstraat 310 Zip 1118 CX		1118 CX
City	Schiphol Country Netherlan		Netherlands
Certification Body	Body DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Samsung EHS R32 Mono 12kW & 16kW (space heating/ 260L)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	Of Refrigerant 2.2 kg		
Certification Date	ion Date 26.01.2021		
Testing basis	HP KEYMARK certification scheme rules V7		

# Model: AE120RXYDEG/EU & AE260RNWMEG/EU

General Data	
Power supply	1x230V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.00 kW	11.30 kW
El input	2.65 kW	3.73 kW
СОР	4.53	3.03
Indoor water flow rate	2.08 m³/h	1.22 m³/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	



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
$\eta_{s}$	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
Cdh	0.90	0.90





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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 or Pdh Tj = Tdesignh if TOL < Tdesignh	13.00 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.37	1.96
WTOL	65 °C	65 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5725 kWh	7051 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	117 %	
СОР	2.70	
Heating up time	1:50 h:min	
Standby power input	67.0 W	
Reference hot water temperature	52.0 °C	
Mixed water at 40°C	290 l	

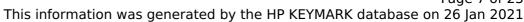
# Model: AE120RXYDGG/EU & MIM-E03CN

General Data	
Power supply	3x400V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.00 kW	11.30 kW
El input	2.65 kW	3.73 kW
СОР	4.53	3.03
Indoor water flow rate	2.08 m³/h	1.22 m³/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	





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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
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 or Pdh Tj = Tdesignh if TOL < Tdesignh	13.00 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.37	1.96
WTOL	65 °C	65 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5725 kWh	7051 kWh

# Model: AE120RXYDGG/EU & AE260RNWMGG/EU

General Data	
Power supply	3x400V 50Hz

# Heating

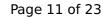
EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.00 kW	11.30 kW
El input	2.65 kW	3.73 kW
СОР	4.53	3.03
Indoor water flow rate	2.08 m³/h	1.22 m³/h

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



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

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COP Tj = +2°C	4.48	3.45
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Cdh	0.90	0.90





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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	13.00 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.37	1.96
WTOL	65 °C	65 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5725 kWh	7051 kWh

# Domestic Hot Water (DHW)



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	117 %	
СОР	2.70	
Heating up time	1:50 h:min	
Standby power input	67.0 W	
Reference hot water temperature	52.0 °C	
Mixed water at 40°C	290 l	

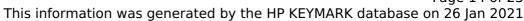
# Model: AE160RXYDEG/EU & AE260RNWMEG/EU

General Data	
Power supply	1x230V 50Hz

# Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.00 kW	15.00 kW
El input	3.62 kW	5.18 kW
СОР	4.42	2.90
Indoor water flow rate	2.77 m³/h	1.63 m³/h

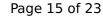
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	





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
$\eta_{s}$	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
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





This information was generated by the first RETT with addabase on 25 jan 252			
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 or Pdh Tj = Tdesignh if TOL < Tdesignh	13.80 kW	14.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.37	1.82	
WTOL	65 °C	65 °C	
Poff	22 W	22 W	
РТО	22 W	22 W	
PSB	22 W	22 W	
PCK	o w	o w	
Supplementary Heater: Type of energy input	Electrical	Electrical	
Supplementary Heater: PSUP	2.20 kW	2.00 kW	
Annual energy consumption Qhe	7385 kWh	9379 kWh	

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	XL
Efficiency ηDHW	117 %
СОР	2.70
Heating up time	1:50 h:min
Standby power input	67.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	290 l



# Model: AE160RXYDGG/EU & MIM-E03CN

General Data	
Power supply 3x400V 50Hz	

# Heating

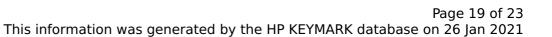
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СОР	4.42	2.90
Indoor water flow rate	2.77 m³/h	1.63 m³/h

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



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