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Summary of	Samsung EHS R410a Split 12kW & 16kW	Reg. No.	011-1W0523
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 R410a Split 12kW & 16kW		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.98 kg		
Certification Date	29.04.2022		
Testing basis	ting basis European KEYMARK Scheme for Heat Pumps Rev. 9 (as of 2021-03)		

Model: AE160ANYDEH/EU + AE120AXEDEH/EU

Configure model		
Model name	AE160ANYDEH/EU + AE120AXEDEH/EU	
Application	Heating (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	
Heat output	12.00 kW	
El input	2.59 kW	
СОР	4.63	

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
Sound power level indoor	44 dB(A)
Sound power level outdoor	64 dB(A)

EN 14825	
	Low temperature
η_{s}	122 %
Prated	12.50 kW
SCOP	
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	11.10 kW
COP Tj = -7°C	2.09
Cdh Tj = -7 °C	0.900
Pdh Tj = +2°C	6.70 kW
COP Tj = +2°C	2.98
Cdh Tj = +2 °C	0.900
Pdh Tj = +7°C	4.30 kW
COP Tj = +7°C	4.06
Cdh Tj = +7 °C	0.900





Pdh Tj = 12°C	4.00 kW
COP Tj = 12°C	4.94
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	11.10 kW
COP Tj = Tbiv	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.64
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
WTOL	°C
Poff	22 W
PTO	22 W
PSB	22 W
PCK	W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	5844 kWh

Model: AE160ANYDGH/EU + AE120AXEDGH/EU

Configure model		
Model name	AE160ANYDGH/EU + AE120AXEDGH/EU	
Application	Heating (low temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	
Heat output	12.00 kW	
El input	2.59 kW	
СОР	4.63	

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
Sound power level indoor	44 dB(A)
Sound power level outdoor	64 dB(A)

EN 14825	
	Low temperature
η_{s}	122 %
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.64
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
WTOL	°C
Poff	22 W
PTO	22 W
PSB	22 W
PCK	W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	5844 kWh

Model: AE160ANYDEH/EU + AE160AXEDEH/EU

Configure model		
Model name	AE160ANYDEH/EU + AE160AXEDEH/EU	
Application	Heating (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	
Heat output	16.00 kW	
El input	3.76 kW	
СОР	4.26	

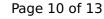
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





EN 12102-1	
	Low temperature
Sound power level indoor	44 dB(A)
Sound power level outdoor	66 dB(A)

EN 14825	
	Low temperature
η_{s}	121 %
Prated	14.00 kW
SCOP	
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	12.40 kW
COP Tj = -7°C	1.88
Cdh Tj = -7 °C	0.900
Pdh Tj = +2°C	7.50 kW
COP Tj = +2°C	2.88
Cdh Tj = +2 °C	0.900
Pdh Tj = +7°C	4.80 kW
$COP Tj = +7^{\circ}C$	4.29
Cdh Tj = +7 °C	0.900





Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	6.14
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	12.40 kW
COP Tj = Tbiv	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
WTOL	°C
Poff	22 W
PTO	22 W
PSB	22 W
PCK	W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	2.00 kW
Annual energy consumption Qhe	5844 kWh



Model: AE160ANYDGH/EU + AE160AXEDGH/EU

Configure model		
Model name	AE160ANYDGH/EU + AE160AXEDGH/EU	
Application	Heating (low temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

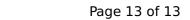
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Cdh Tj = +7 °C	0.900	





Pdh Tj = 12°C	4.30 kW
COP Tj = 12°C	6.14
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Pdh Tj = Tbiv	12.40 kW
COP Tj = Tbiv	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.74
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
WTOL	°C
Poff	22 W
РТО	22 W
PSB	22 W
PCK	w
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	2.00 kW
Annual energy consumption Qhe	5844 kWh