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Summary of	Samsung EHS R32 Split 4kW & 6kW (wall-mounted hydro unit)		Reg. No.	011-1W0453
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 Split 4kW & 6kW (wall-mounted hydro unit)			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32			
Mass of Refrigerant	1.2 kg			
Certification Date	26.01.2021			
Testing basis	HP KEYMARK certification scheme rules V7			

Model: AE040RXEDEG/EU & AE090RNYDEG/EU

Configure model	
Model name	AE040RXEDEG/EU & AE090RNYDEG/EU
Application	Heating (medium 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	4.40 kW	3.90 kW
El input	0.85 kW	1.32 kW
COP	5.20	2.95

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	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	180 %	127 %
Prated	5.00 kW	5.00 kW
SCOP	4.58	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.42 kW	4.42 kW
COP Tj = -7°C	3.02	2.10
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.69 kW	2.69 kW
COP Tj = +2°C	4.63	3.10
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	1.73 kW	1.73 kW
COP Tj = +7°C	6.48	4.46
Cdh Tj = +7 °C	0.90	0.90

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Pdh Tj = 12°C	1.96 kW	1.93 kW
COP Tj = 12°C	4.88	5.72
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.42 kW	4.42 kW
COP Tj = Tbiv	3.02	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.48 kW	4.17 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.24	1.51
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	0.52 kW	0.83 kW
Annual energy consumption Qhe	2253 kWh	3178 kWh

Model: AE060RXEDEG/EU & AE090RNYDEG/EU

Configure model	
Model name	AE060RXEDEG/EU & AE090RNYDEG/EU
Application	Heating (medium 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	6.00 kW	5.20 kW
El input	1.22 kW	1.81 kW
COP	4.92	2.87

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	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	180 %	129 %
Prated	6.00 kW	6.00 kW
SCOP	4.58	3.31
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.31 kW	5.31 kW
COP Tj = -7°C	2.75	2.00
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.23 kW	3.23 kW
COP Tj = +2°C	4.50	3.23
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.08 kW	2.08 kW
COP Tj = +7°C	6.25	4.47
Cdh Tj = +7 °C	0.90	0.90

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Pdh Tj = 12°C	1.96 kW	1.93 kW
COP Tj = 12°C	7.57	5.72
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.31 kW	5.31 kW
COP Tj = Tbiv	2.75	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.24 kW	4.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.80
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	0.76 kW	1.05 kW
Annual energy consumption Qhe	2705 kWh	3745 kWh