

Subtype Samsung EHS R32 Split 4kW & 6kW (wall-mounted hydro unit)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
Address	Evert van de Beekstraat 310
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City	Schiphol
Country	NL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Samsung EHS R32 Split 4kW & 6kW (wall-mounted hydro unit)
Registration number	011-1W0453
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

Model name	AE040RXEDEG/EU & AE090RNYDEG/EU
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	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 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_s	180 %	127 %
P _{rated}	5.00 kW	5.00 kW
SCOP	4.58	3.25
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh} T _j = -7 °C	4.42 kW	4.42 kW
COP T _j = -7 °C	3.02	2.10
C _{dh} T _j = -7 °C	0.90	0.90
P _{dh} T _j = +2 °C	2.69 kW	2.69 kW
COP T _j = +2 °C	4.63	3.10
C _{dh} T _j = +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
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

Model name	AE060RXEDEG/EU & AE090RNYDEG/EU
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	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 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_s	180 %	129 %
P _{rated}	6.00 kW	6.00 kW
SCOP	4.58	3.31
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh} T _j = -7 °C	5.31 kW	5.31 kW
COP T _j = -7 °C	2.75	2.00
C _{dh} T _j = -7 °C	0.90	0.90
P _{dh} T _j = +2 °C	3.23 kW	3.23 kW
COP T _j = +2 °C	4.50	3.23
C _{dh} T _j = +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
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