

## Subtype Samsung EHS R32 Split 9kW (wall-mounted hydro unit)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
Address	Evert van de Beekstraat 310
ZIP	1118 CX
City	Schiphol
Country	NL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Samsung EHS R32 Split 9kW (wall-mounted hydro unit)
Registration number	011-1W0456
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	26.01.2021
Testing basis	HP KEYMARK certification scheme rules V7

## Model AE090RXEDEC/EU &amp; AE090RNYDEC/EU

Model name	AE090RXEDEC/EU & AE090RNYDEC/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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	175 %	127 %
Prated	9.00 kW	8.00 kW
SCOP	4.45	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	7.10 kW
COP Tj = -7°C	2.64	1.76
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	4.60 kW	4.30 kW
COP Tj = +2°C	4.17	3.23
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	6.53	4.62
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.70 kW	2.60 kW
COP Tj = 12°C	8.87	5.88
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	7.50 kW	7.10 kW

COP $T_j = T_{biv}$	2.64	1.76
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.70 kW	4.90 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.32	1.35
WTOL	65 °C	65 °C
P <sub>off</sub>	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	2.30 kW	3.10 kW
Annual energy consumption Q <sub>he</sub>	3949 kWh	5103 kWh

## Model AE090RXEDGG/EU &amp; AE090RNYDGG/EU

Model name	AE090RXEDGG/EU & AE090RNYDGG/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	3x400V 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 12102-1 | Average Climate

	Low temperature	Medium temperature
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