

## Subtype Samsung EHS R32 Split 9kW(WMH/TIH 200L)

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(WMH/TIH 200L)
Registration number	011-1W0993
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.4 kg
Certification Date	07.03.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

## Model AE090RXEDEG/EU+AE200DNXSPG/EU

Model name	AE090RXEDEG/EU+AE200DNXSPG/EU
Application	Heating + DHW + low 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 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	148 %
COP	3.4
Heating up time	1:26 h:min
Standby power input	45 W
Reference hot water temperature	49 °C
Mixed water at 40°C	220 l

## 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	9 kW	8 kW
El input	1.87 kW	2.73 kW
COP	4.81	2.93

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 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 kW	8 kW
SCOP	4.45	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.1 kW
COP Tj = -7°C	2.64	1.76
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	4.6 kW	4.3 kW
COP Tj = +2°C	4.17	3.23
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	2.9 kW	2.8 kW
COP Tj = +7°C	6.53	4.62
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	2.7 kW	2.6 kW
COP Tj = 12°C	8.87	5.88
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.5 kW	7.1 kW
COP Tj = Tbiv	2.64	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.7 kW	4.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.32	1.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
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	2.3 kW	3.1 kW
Annual energy consumption Qhe	3949 kWh	5103 kWh

## Model AE090RXEDEG/EU+AE200DNWSPG/EU

Model name	AE090RXEDEG/EU+AE200DNWSPG/EU
Application	Heating + DHW + low 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 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	148 %
COP	3.4
Heating up time	1:26 h:min
Standby power input	45 W
Reference hot water temperature	49 °C
Mixed water at 40°C	220 l

## 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	9 kW	8 kW
El input	1.87 kW	2.73 kW
COP	4.81	2.93

## 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 kW	8 kW
SCOP	4.45	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.1 kW
COP Tj = -7°C	2.64	1.76
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	4.6 kW	4.3 kW
COP Tj = +2°C	4.17	3.23
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	2.9 kW	2.8 kW
COP Tj = +7°C	6.53	4.62
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	2.7 kW	2.6 kW
COP Tj = 12°C	8.87	5.88
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.5 kW	7.1 kW
COP Tj = Tbiv	2.64	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.7 kW	4.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.32	1.35
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
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	2.3 kW	3.1 kW
Annual energy consumption Qhe	3949 kWh	5103 kWh

## Model AE090RXEDEG/EU+AE160DNZSPG/EU

Model name	AE090RXEDEG/EU+AE160DNZSPG/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	9 kW	8 kW
El input	1.87 kW	2.73 kW
COP	4.81	2.93

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 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 kW	8 kW
SCOP	4.45	3.24
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.1 kW
COP Tj = -7°C	2.64	1.76
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	4.6 kW	4.3 kW
COP Tj = +2°C	4.17	3.23
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Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	7.5 kW	7.1 kW
COP Tj = Tbiv	2.64	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.7 kW	4.9 kW
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
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	2.3 kW	3.1 kW
Annual energy consumption Qhe	3949 kWh	5103 kWh

## Model AE090RXEDEG/EU+AE160DNYSPPG/EU

Model name	AE090RXEDEG/EU+AE160DNYSPPG/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	9 kW	8 kW
El input	1.87 kW	2.73 kW
COP	4.81	2.93

## 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
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Pdh Tj = -7°C	7.5 kW	7.1 kW
COP Tj = -7°C	2.64	1.76
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	4.6 kW	4.3 kW
COP Tj = +2°C	4.17	3.23
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	2.9 kW	2.8 kW
COP Tj = +7°C	6.53	4.62
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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	2.3 kW	3.1 kW
Annual energy consumption Qhe	3949 kWh	5103 kWh

## Model AE090RXEDGG/EU+AE200DNXSPG/EU

Model name	AE090RXEDGG/EU+AE200DNXSPG/EU
Application	Heating + DHW + low 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 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	148 %
COP	3.4
Heating up time	1:26 h:min
Standby power input	45 W
Reference hot water temperature	49 °C
Mixed water at 40°C	220 l

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Shutting off the heat transfer medium flow passed

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	Low temperature	Medium temperature
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	Low temperature	Medium temperature
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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	2.3 kW	3.1 kW
Annual energy consumption Qhe	3949 kWh	5103 kWh

## Model AE090RXEDGG/EU+AE200DNWSPG/EU

Model name	AE090RXEDGG/EU+AE200DNWSPG/EU
Application	Heating + DHW + low 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 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	148 %
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Mixed water at 40°C	220 l

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Complete power supply failure	passed
Defrost test	passed
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	Low temperature	Medium temperature
Heat output	9 kW	8 kW
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## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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## EN 14825 | Average Climate

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$\eta_s$	175 %	127 %

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Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
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	2.3 kW	3.1 kW
Annual energy consumption Qhe	3949 kWh	5103 kWh

## Model AE090RXEDGG/EU+AE160DNZSPG/EU

Model name	AE090RXEDGG/EU+AE160DNZSPG/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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9 kW	8 kW
El input	1.87 kW	2.73 kW
COP	4.81	2.93

## EN 12102-1 | Average Climate

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Sound power level indoor	42 dB(A)	42 dB(A)
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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	2.3 kW	3.1 kW
Annual energy consumption Qhe	3949 kWh	5103 kWh

## Model AE090RXEDGG/EU+AE160DNYSPPG/EU

Model name	AE090RXEDGG/EU+AE160DNYSPPG/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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9 kW	8 kW
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	Low temperature	Medium temperature
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	Low temperature	Medium temperature
$\eta_s$	175 %	127 %
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.3 kW	3.1 kW
Annual energy consumption Qhe	3949 kWh	5103 kWh