

Subtype Samsung EHS R32 Mono 5kW(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 Mono 5kW(WMH/TIH 200L)
Registration number	011-1W0802
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1 kg
Certification Date	25.06.2024
Testing basis	European KEYMARK Scheme for Heat Pumps rev.14 (as of 2024-04)

Model AE050RXYDEG/EU AE200DNXMPK/EU

Model name	AE050RXYDEG/EU AE200DNXMPK/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 η_{DHW}	148 %
COP	3.40
Heating up time	2:12 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °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	5.00 kW	4.30 kW
El input	1.03 kW	1.52 kW
COP	4.85	2.83

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	175 %	125 %

Prated	5.50 kW	5.00 kW
SCOP	4.46	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.42 kW
COP Tj = -7°C	2.99	2.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.69 kW
COP Tj = +2°C	4.18	3.17
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	1.73 kW
COP Tj = +7°C	6.10	4.03
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.88 kW	1.70 kW
COP Tj = 12°C	7.70	4.73
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.42 kW
COP Tj = Tbiv	2.99	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.59 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.74	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	0.91 kW	0.80 kW
Annual energy consumption Qhe	2548 kWh	3224 kWh

Model AE050RXYDEG/EU AE200DNWMPK/EU

Model name	AE050RXYDEG/EU AE200DNWMPK/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
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COP	3.40
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Reference hot water temperature	49.0 °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

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	Low temperature	Medium temperature
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	175 %	125 %

Prated	5.50 kW	5.00 kW
SCOP	4.46	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.42 kW
COP Tj = -7°C	2.99	2.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.69 kW
COP Tj = +2°C	4.18	3.17
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Pdh Tj = +7°C	1.90 kW	1.73 kW
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Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.88 kW	1.70 kW
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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	0.91 kW	0.80 kW
Annual energy consumption Qhe	2548 kWh	3224 kWh

Model AE050RXYDEG/EU AE160DNZMPK/EU

Model name	AE050RXYDEG/EU AE160DNZMPK/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	5.00 kW	4.30 kW
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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	0.91 kW	0.80 kW
Annual energy consumption Qhe	2548 kWh	3224 kWh

Model AE050RXYDEG/EU AE160DNYMPK/EU

Model name	AE050RXYDEG/EU AE160DNYMPK/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**

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.91 kW	0.80 kW
Annual energy consumption Qhe	2548 kWh	3224 kWh

Model AE050RXYDEG/EU MIM-E03FN

Model name	AE050RXYDEG/EU MIM-E03FN
Application	Heating (medium temp)
Units	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	5.00 kW	4.30 kW
El input	1.03 kW	1.52 kW
COP	4.85	2.83

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

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Supplementary Heater: PSUP	0.91 kW	0.80 kW
Annual energy consumption Qhe	2548 kWh	3224 kWh

Model AE050RXYDEG/EU MIM-E03GN

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Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

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