

This information was generated by the HP KEYMARK database on 18 Mar 2022

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| | | | | |
|---------------------|--|--|----------|-------------|
| Summary of | Samsung EHS R32 Mono 12kW & 16kW (space heating/ 260L) | | Reg. No. | 011-1W0447 |
| 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 Mono 12kW & 16kW (space heating/ 260L) | | | |
| Heat Pump Type | Outdoor Air/Water | | | |
| Refrigerant | R32 | | | |
| Mass of Refrigerant | 2.2 kg | | | |
| Certification Date | 26.01.2021 | | | |
| Testing basis | HP KEYMARK certification scheme rules V7 | | | |

Model: AE120RXYDEG/EU & AE260RNWMEG/EU

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | AE120RXYDEG/EU & AE260RNWMEG/EU |
| Application | Heating + DHW + low 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 | 12.00 kW | 11.30 kW |
| El input | 2.65 kW | 3.73 kW |
| COP | 4.53 | 3.03 |

| 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 | 44 dB(A) | 44 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 185 % | 138 % |
| Prated | 13.00 kW | 12.00 kW |
| SCOP | 4.69 | 3.51 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.50 kW | 10.62 kW |
| COP Tj = -7°C | 2.71 | 2.16 |
| Cdh Tj = -7 °C | 0.90 | 0.90 |
| Pdh Tj = +2°C | 7.00 kW | 6.46 kW |
| COP Tj = +2°C | 4.48 | 3.45 |
| Cdh Tj = +2 °C | 0.90 | 0.90 |
| Pdh Tj = +7°C | 5.60 kW | 4.15 kW |
| COP Tj = +7°C | 6.86 | 4.57 |
| Cdh Tj = +7 °C | 0.90 | 0.90 |

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| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 4.80 kW | 4.40 kW |
| COP Tj = 12°C | 8.95 | 6.12 |
| Cdh Tj = +12 °C | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 11.50 kW | 10.62 kW |
| COP Tj = Tbiv | 2.71 | 2.16 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 13.00 kW | 12.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.37 | 1.96 |
| 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 | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 5725 kWh | 7051 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.70 |
| Heating up time | 1:50 h:min |
| Standby power input | 67.0 W |
| Reference hot water temperature | 52.0 °C |
| Mixed water at 40°C | 290 l |

Model: AE120RXYDGG/EU & MIM-E03CN

| Configure model | |
|-------------------------------------|----------------------------|
| Model name | AE120RXYDGG/EU & MIM-E03CN |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 12.00 kW | 11.30 kW |
| El input | 2.65 kW | 3.73 kW |
| COP | 4.53 | 3.03 |

| 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 | 44 dB(A) | 44 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 185 % | 138 % |
| Prated | 13.00 kW | 12.00 kW |
| SCOP | 4.69 | 3.51 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.50 kW | 10.62 kW |
| COP Tj = -7°C | 2.71 | 2.16 |
| Cdh Tj = -7 °C | 0.90 | 0.90 |
| Pdh Tj = +2°C | 7.00 kW | 6.46 kW |
| COP Tj = +2°C | 4.48 | 3.45 |
| Cdh Tj = +2 °C | 0.90 | 0.90 |
| Pdh Tj = +7°C | 5.60 kW | 4.15 kW |
| COP Tj = +7°C | 6.86 | 4.57 |
| Cdh Tj = +7 °C | 0.90 | 0.90 |

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| Pdh Tj = 12°C | 4.80 kW | 4.40 kW |
| COP Tj = 12°C | 8.95 | 6.12 |
| Cdh Tj = +12 °C | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 11.50 kW | 10.62 kW |
| COP Tj = Tbiv | 2.71 | 2.16 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 13.00 kW | 12.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.37 | 1.96 |
| 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 | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 5725 kWh | 7051 kWh |

Model: AE120RXYDGG/EU & AE260RNWMGG/EU

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | AE120RXYDGG/EU & AE260RNWMGG/EU |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 12.00 kW | 11.30 kW |
| El input | 2.65 kW | 3.73 kW |
| COP | 4.53 | 3.03 |

| 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 | 44 dB(A) | 44 dB(A) |
| Sound power level outdoor | 64 dB(A) | 64 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 185 % | 138 % |
| Prated | 13.00 kW | 12.00 kW |
| SCOP | 4.69 | 3.51 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 11.50 kW | 10.62 kW |
| COP Tj = -7°C | 2.71 | 2.16 |
| Cdh Tj = -7 °C | 0.90 | 0.90 |
| Pdh Tj = +2°C | 7.00 kW | 6.46 kW |
| COP Tj = +2°C | 4.48 | 3.45 |
| Cdh Tj = +2 °C | 0.90 | 0.90 |
| Pdh Tj = +7°C | 5.60 kW | 4.15 kW |
| COP Tj = +7°C | 6.86 | 4.57 |
| Cdh Tj = +7 °C | 0.90 | 0.90 |

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|---|-------------|-------------|
| Pdh Tj = 12°C | 4.80 kW | 4.40 kW |
| COP Tj = 12°C | 8.95 | 6.12 |
| Cdh Tj = +12 °C | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 11.50 kW | 10.62 kW |
| COP Tj = Tbiv | 2.71 | 2.16 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 13.00 kW | 12.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.37 | 1.96 |
| 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 | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 5725 kWh | 7051 kWh |

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.70 |
| Heating up time | 1:50 h:min |
| Standby power input | 67.0 W |
| Reference hot water temperature | 52.0 °C |
| Mixed water at 40°C | 290 l |

Model: AE160RXYDEG/EU & AE260RNWMEG/EU

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | AE160RXYDEG/EU & AE260RNWMEG/EU |
| Application | Heating + DHW + low 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 | 16.00 kW | 15.00 kW |
| El input | 3.62 kW | 5.18 kW |
| COP | 4.42 | 2.90 |

| 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 | 44 dB(A) | 44 dB(A) |
| Sound power level outdoor | 66 dB(A) | 66 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 176 % | 138 % |
| Prated | 16.00 kW | 16.00 kW |
| SCOP | 4.48 | 3.53 |
| Tbiv | -7 °C | -7 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 14.15 kW | 14.15 kW |
| COP Tj = -7°C | 2.65 | 2.06 |
| Cdh Tj = -7 °C | 0.90 | 0.90 |
| Pdh Tj = +2°C | 8.62 kW | 8.62 kW |
| COP Tj = +2°C | 4.11 | 3.31 |
| Cdh Tj = +2 °C | 0.90 | 0.90 |
| Pdh Tj = +7°C | 5.54 kW | 5.54 kW |
| COP Tj = +7°C | 6.86 | 5.23 |
| Cdh Tj = +7 °C | 0.90 | 0.90 |

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| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 5.20 kW | 4.49 kW |
| COP Tj = 12°C | 8.81 | 6.35 |
| Cdh Tj = +12 °C | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 14.15 kW | 14.15 kW |
| COP Tj = Tbiv | 2.65 | 2.06 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 13.80 kW | 14.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.37 | 1.82 |
| 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 | 2.20 kW | 2.00 kW |
| Annual energy consumption Qhe | 7385 kWh | 9379 kWh |

Domestic Hot Water (DHW)

Average Climate

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| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.70 |
| Heating up time | 1:50 h:min |
| Standby power input | 67.0 W |
| Reference hot water temperature | 52.0 °C |
| Mixed water at 40°C | 290 l |

Model: AE160RXYDGG/EU & MIM-E03CN

| Configure model | |
|-------------------------------------|----------------------------|
| Model name | AE160RXYDGG/EU & MIM-E03CN |
| Application | Heating (medium temp) |
| Units | Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 16.00 kW | 15.00 kW |
| El input | 3.62 kW | 5.18 kW |
| COP | 4.42 | 2.90 |

| 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 | 44 dB(A) | 44 dB(A) |
| Sound power level outdoor | 66 dB(A) | 66 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
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| η_s | 176 % | 138 % |
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| COP Tj = -7°C | 2.65 | 2.06 |
| Cdh Tj = -7 °C | 0.90 | 0.90 |
| Pdh Tj = +2°C | 8.62 kW | 8.62 kW |
| COP Tj = +2°C | 4.11 | 3.31 |
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| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.37 | 1.82 |
| 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 | 2.20 kW | 2.00 kW |
| Annual energy consumption Qhe | 7385 kWh | 9379 kWh |

Model: AE160RXYDGG/EU & AE260RNWMGG/EU

| Configure model | |
|-------------------------------------|---------------------------------|
| Model name | AE160RXYDGG/EU & AE260RNWMGG/EU |
| Application | Heating + DHW + low temp |
| Units | Indoor + Outdoor |
| Climate Zone | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Heating

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 16.00 kW | 15.00 kW |
| El input | 3.62 kW | 5.18 kW |
| COP | 4.42 | 2.90 |

| 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 |
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EN 14825

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| η_s | 176 % | 138 % |
| Prated | 16.00 kW | 16.00 kW |
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| Tbiv | -7 °C | -7 °C |
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| COP Tj = +2°C | 4.11 | 3.31 |
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| COP Tj = +7°C | 6.86 | 5.23 |
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| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 2.20 kW | 2.00 kW |
| Annual energy consumption Qhe | 7385 kWh | 9379 kWh |

Domestic Hot Water (DHW)

Average Climate

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|---------------------------------|------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.70 |
| Heating up time | 1:50 h:min |
| Standby power input | 67.0 W |
| Reference hot water temperature | 52.0 °C |
| Mixed water at 40°C | 290 l |