

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

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|                     |   |          |             |
|---------------------|---|----------|-------------|
| Summary of          | Samsung EHS R32 Split 9kW (space heating/260L)        | Reg. No. | 011-1W0455  |
| 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 Split 9kW (space heating/260L)        |          |             |
| 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: AE090RXEDEG/EU & AE260RNWSEG/EU

## Configure model

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | AE090RXEDEG/EU & AE260RNWSEG/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 | 9.00 kW         | 8.00 kW            |
| El input    | 1.87 kW         | 2.73 kW            |
| COP         | 4.81            | 2.93               |

### 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

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### EN 12102-1

|                           | 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

|                | 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               |

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|   |             |             |
|---|-------------|-------------|
| 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 Tj = Tbiv                                       | 2.64        | 1.76        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 6.70 kW     | 4.90 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.32        | 1.35        |
| 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                          | 2.30 kW     | 3.10 kW     |
| Annual energy consumption Qhe                       | 3949 kWh    | 5103 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 123 %      |
| COP                             | 2.85       |
| Heating up time                 | 1:35 h:min |
| Standby power input             | 62.0 W     |
| Reference hot water temperature | 50.5 °C    |
| Mixed water at 40°C             | 290 l      |

# Model: AE090RXEDGG/EU & AE260RNWSGG/EU

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | AE090RXEDGG/EU & AE260RNWSGG/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 | 9.00 kW         | 8.00 kW            |
| El input    | 1.87 kW         | 2.73 kW            |
| COP         | 4.81            | 2.93               |

| 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

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### EN 12102-1

|                           | 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

|                | 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            |
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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                          | 2.30 kW     | 3.10 kW     |
| Annual energy consumption Qhe                       | 3949 kWh    | 5103 kWh    |

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### Average Climate



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| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 123 %      |
| COP                             | 2.85       |
| Heating up time                 | 1:35 h:min |
| Standby power input             | 62.0 W     |
| Reference hot water temperature | 50.5 °C    |
| Mixed water at 40°C             | 290 l      |