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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 |
|----------------|-----------------|--------------------|
| $\eta_s$       | 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 22 Jun 2022

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 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 |
|----------------|-----------------|--------------------|
| $\eta_s$       | 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 |
|----------------|-----------------|--------------------|
| $\eta_s$       | 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

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 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 |
|----------------|-----------------|--------------------|
| $\eta_s$       | 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

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 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 |
|----------------|-----------------|--------------------|
| $\eta_s$       | 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                                       | 14.20 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    |

# 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 |
|---------------------------|-----------------|--------------------|
| 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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| $\eta_s$       | 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               |

This information was generated by the HP KEYMARK database on 22 Jun 2022

|   |             |             |
|---|-------------|-------------|
| 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                                       | 14.20 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

| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | XL         |
| Efficiency $\eta_{DHW}$         | 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      |