

## Subtype Samsung EHS R32 Mono 8kW (space heating/ 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 8kW (space heating/ 200L)        |
| Registration number | 011-1W0449                                            |
| Heat Pump Type      | Outdoor Air/Water                                     |
| Refrigerant         | R32                                                   |
| Mass of Refrigerant | 1.15 kg                                               |
| Certification Date  | 26.01.2021                                            |
| Testing basis       | HP KEYMARK certification scheme rules rev. 7          |

## Model AE080RXYDEG/EU &amp; AE200RNWMEG/EU

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | AE080RXYDEG/EU & AE200RNWMEG/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 $\eta_{DHW}$         | 115 %      |
| COP                             | 2.85       |
| Heating up time                 | 2:00 h:min |
| Standby power input             | 60.0 W     |
| Reference hot water temperature | 52.1 °C    |
| Mixed water at 40°C             | 206 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 | 8.00 kW         | 7.10 kW            |
| El input    | 1.77 kW         | 2.53 kW            |
| COP         | 4.52            | 2.81               |

## EN 12102-1 | Average Climate

|                           | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor  | 40 dB(A)        | 40 dB(A)           |
| Sound power level outdoor | 63 dB(A)        | 63 dB(A)           |

## EN 14825 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 175 %           | 126 %              |
| Prated   | 8.00 kW         | 8.00 kW            |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| SCOP                                                | 4.44        | 3.23        |
| Tbiv                                                | -7 °C       | -7 °C       |
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 7.08 kW     | 7.08 kW     |
| COP Tj = -7°C                                       | 2.63        | 1.90        |
| Cdh Tj = -7 °C                                      | 0.90        | 0.90        |
| Pdh Tj = +2°C                                       | 4.31 kW     | 4.31 kW     |
| COP Tj = +2°C                                       | 4.24        | 3.11        |
| Cdh Tj = +2 °C                                      | 0.90        | 0.90        |
| Pdh Tj = +7°C                                       | 3.10 kW     | 2.80 kW     |
| COP Tj = +7°C                                       | 6.39        | 4.55        |
| Cdh Tj = +7 °C                                      | 0.90        | 0.90        |
| Pdh Tj = 12°C                                       | 2.60 kW     | 2.40 kW     |
| COP Tj = 12°C                                       | 8.22        | 5.77        |
| Cdh Tj = +12 °C                                     | 0.90        | 0.90        |
| Pdh Tj = Tbiv                                       | 7.10 kW     | 7.10 kW     |
| COP Tj = Tbiv                                       | 2.63        | 1.90        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW     | 6.80 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.48        | 1.66        |
| 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                          | 1.00 kW     | 1.20 kW     |
| Annual energy consumption Qhe                       | 3719 kWh    | 5113 kWh    |

## Model AE080RXYDEG/EU &amp; MIM-E03CN

|                                     |                            |
|-------------------------------------|----------------------------|
| Model name                          | AE080RXYDEG/EU & MIM-E03CN |
| 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 |
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| SCOP           | 4.44            | 3.23               |
| Tbiv           | -7 °C           | -7 °C              |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 7.08 kW         | 7.08 kW            |
| COP Tj = -7°C  | 2.63            | 1.90               |
| Cdh Tj = -7 °C | 0.90            | 0.90               |
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|                                                     |             |             |
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| Pdh Tj = +7°C                                       | 3.10 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                          | 1.00 kW     | 1.20 kW     |
| Annual energy consumption Qhe                       | 3719 kWh    | 5113 kWh    |

## Model AE080RXYDEG/EU + AE200CNWMEG/EU

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | AE080RXYDEG/EU + AE200CNWMEG/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                             |

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| Standby power input             | 60.0 W     |
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| TOL                                                 | -10 °C      | -10 °C      |
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| Cdh Tj = +2 °C                                      |             |             |
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| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.48        | 1.66        |
| 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                          | 1.00 kW     | 1.20 kW     |
| Annual energy consumption Qhe                       | 3 kWh       | 5 kWh       |