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|                     |  |          |             |
|---------------------|--|----------|-------------|
| Summary of          | Samsung EHS TDM Plus R410A 9 kW 3Phase (space heating/ 200L) | Reg. No. | 011-1W0375  |
| 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 TDM Plus R410A 9 kW 3Phase (space heating/ 200L) |          |             |
| Heat Pump Type      | Outdoor Air/Water  |          |             |
| Refrigerant         | R410A  |          |             |
| Mass of Refrigerant | 2.4 kg   |          |             |
| Certification Date  | 29.07.2020   |          |             |
| Testing basis       | European KEYMARK Scheme for Heat Pumps Rev. 7                |          |             |

# Model: AE090MXTPGH/EU & AE200TNWTEH/EU

| Configure model                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | AE090MXTPGH/EU & AE200TNWTEH/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         | 7.66 kW            |
| El input    | 2.12 kW         | 2.82 kW            |
| COP         | 4.25            | 2.69               |

| 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  | 43 dB(A)        | 43 dB(A)           |
| Sound power level outdoor | 69 dB(A)        | 69 dB(A)           |

### EN 14825

|                | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| $\eta_s$       | 175 %           | 111 %              |
| Prated         | 6.00 kW         | 5.00 kW            |
| SCOP           | 4.44            | 2.86               |
| Tbiv           | -10 °C          | -10 °C             |
| TOL            | -10 °C          | -10 °C             |
| Pdh Tj = -7°C  | 5.00 kW         | 4.60 kW            |
| COP Tj = -7°C  | 2.63            | 1.91               |
| Cdh Tj = -7 °C | 0.90            | 0.90               |
| Pdh Tj = +2°C  | 3.00 kW         | 2.80 kW            |
| COP Tj = +2°C  | 4.47            | 2.78               |
| Cdh Tj = +2 °C | 0.90            | 0.90               |
| Pdh Tj = +7°C  | 3.20 kW         | 2.60 kW            |
| COP Tj = +7°C  | 5.96            | 3.59               |
| Cdh Tj = +7 °C | 0.90            | 0.90               |

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|   |             |             |
|---|-------------|-------------|
| Pdh Tj = 12°C                                       | 3.00 kW     | 2.50 kW     |
| COP Tj = 12°C                                       | 8.27        | 4.72        |
| Cdh Tj = +12 °C                                     | 0.90        | 0.90        |
| Pdh Tj = Tbiv                                       | 5.60 kW     | 5.20 kW     |
| COP Tj = Tbiv                                       | 2.31        | 1.68        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.60 kW     | 5.20 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.31        | 1.68        |
| WTOL  | 55 °C       | 55 °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                       | 2644 kWh    | 3871 kWh    |

## Domestic Hot Water (DHW)

### Average Climate

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| <b>EN 16147</b>                 |            |
|---------------------------------|------------|
| Declared load profile           | L          |
| Efficiency $\eta_{DHW}$         | 115 %      |
| COP                             | 2.75       |
| Heating up time                 | 2:00 h:min |
| Standby power input             | 82.0 W     |
| Reference hot water temperature | 52.1 °C    |
| Mixed water at 40°C             | 225 l      |