

## Subtype Samsung EHS TDM Plus R410A 9 kW 1Phase (space heating/ 260L)

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| 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 TDM Plus R410A 9 kW 1Phase (space heating/ 260L) |
| Registration number | 011-1W0373                                                   |
| 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 AE090MXTPEH/EU &amp; AE260TNWTEH/EU

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Model name                          | AE090MXTPEH/EU & AE260TNWTEH/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           | XL         |
| Efficiency $\eta_{DHW}$         | 105 %      |
| COP                             | 2.60       |
| Heating up time                 | 2:30 h:min |
| Standby power input             | 85.0 W     |
| Reference hot water temperature | 52.0 °C    |
| Mixed water at 40°C             | 290 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 | 9.00 kW         | 7.66 kW            |
| El input    | 2.12 kW         | 2.82 kW            |
| COP         | 4.25            | 2.72               |

## EN 12102-1 | Average Climate

|                           | 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 | Average Climate

|          | Low temperature | Medium temperature |
|----------|-----------------|--------------------|
| $\eta_s$ | 174 %           | 117 %              |
| Prated   | 5.60 kW         | 5.50 kW            |

|                                                     |             |             |
|-----------------------------------------------------|-------------|-------------|
| SCOP                                                | 4.42        | 3.01        |
| Tbiv                                                | -10 °C      | -10 °C      |
| TOL                                                 | -10 °C      | -10 °C      |
| Pdh Tj = -7°C                                       | 5.00 kW     | 4.90 kW     |
| COP Tj = -7°C                                       | 2.67        | 1.77        |
| Cdh Tj = -7 °C                                      | 0.900       | 0.900       |
| Pdh Tj = +2°C                                       | 3.00 kW     | 3.00 kW     |
| COP Tj = +2°C                                       | 4.47        | 3.02        |
| Cdh Tj = +2 °C                                      | 0.900       | 0.900       |
| Pdh Tj = +7°C                                       | 3.20 kW     | 2.30 kW     |
| COP Tj = +7°C                                       | 5.74        | 3.90        |
| Cdh Tj = +7 °C                                      | 0.900       | 0.900       |
| Pdh Tj = 12°C                                       | 3.00 kW     | 2.20 kW     |
| COP Tj = 12°C                                       | 8.27        | 4.90        |
| Cdh Tj = +12 °C                                     | 0.900       | 0.900       |
| Pdh Tj = Tbiv                                       | 5.60 kW     | 5.50 kW     |
| COP Tj = Tbiv                                       | 2.31        | 1.59        |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.60 kW     | 5.50 kW     |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 2.31        | 1.59        |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh |             |             |
| 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                       | 2660 kWh    | 3885 kWh    |