

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | | |
|----------------------------|--|----------|-------------|
| 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 | | |
| Name of testing laboratory | TÜV Rheinland Korea Ltd. | | |
| 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

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 |
| Indoor water flow rate | 1.56 m ³ /h | 0.86 m ³ /h |

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 |
|---------------|-----------------|--------------------|
| η_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 | 0.90 | 0.90 |
| Pdh Tj = +2°C | 3.00 kW | 2.80 kW |
| COP Tj = +2°C | 4.47 | 2.78 |
| Cdh | 0.90 | 0.90 |
| Pdh Tj = +7°C | 3.20 kW | 2.60 kW |
| COP Tj = +7°C | 5.96 | 3.59 |
| Cdh | 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 | 0.90 | 0.90 |
| Pdh Tj = Tbiv | 5.60 kW | 5.20 kW |
| COP Tj = Tbiv | 2.31 | 1.68 |
| Pdh Tj = TOL | 5.60 kW | 5.20 kW |
| COP Tj = TOL | 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 | Electrical | Electrical |
| 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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| EN 16147 | |
|---------------------------------|------------|
| Declared load profile | L |
| Efficiency η_{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 |