

# PRODUCT PERFORMANCE RATING

Document ID 1657712579-10-06251c7d

Issued on: 13 July 2022- Délivré le : 13 juillet 2022

This product is certified by Eurovent Certita Certification as mentioned on:

Ce produit est certifié par Eurovent Certita Certification comme mentionné sur :



**Certificate N° 99.01.071**

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Certification programmes / Programmes de certification

Product type / Type de produit

Model name / Nom du modèle

Range / Gamme

Participant / Titulaire

Brand / Marque

Air conditioners

Air to air, split, reversible ( $\leq 12$  kW)

AR18TXEAAWKN/AR18TXEAAWKX

INVERTER

SAMSUNG Electronics Co. Ltd

SAMSUNG

This performance certificate is delivered for the following project

| Project Name         | Project company                               | Project Reference        | Project location              |
|----------------------|-----------------------------------------------|--------------------------|-------------------------------|
| <i>Nom du projet</i> | <i>Nom de la société</i>                      | <i>Project Reference</i> | <i>Localisation du projet</i> |
| Not specified        | Samsung Electronics Air<br>Conditioner Europe | Not specified            | Hungary                       |

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| FEATURE                                                                                    | VALUE   | UNIT      |
|--------------------------------------------------------------------------------------------|---------|-----------|
| <b>Seasonal Efficiency In Cooling</b>                                                      |         |           |
| Pdesignc (Design Load Cooling)                                                             | 5       | kW        |
| SEER (Seasonal Energy Efficiency Ratio)                                                    | 6.8     |           |
| Qce (Annual electricity consumption for cooling)                                           | 257.35  | kWh/annum |
| SEER Class (Seasonal Energy Efficiency Ratio Class)                                        | A++     |           |
| <b>Heating Average Climate</b>                                                             |         |           |
| Pdesignh (Design load heating )                                                            | 3.8     | kW        |
| SCOP (Reference SCOP)                                                                      | 4.1     |           |
| SCOP Class (Seasonal Coefficient Of Performance Class)                                     | A+      |           |
| Qhe (Annual electricity consumption for heating)                                           | 1297.56 | kWh/annum |
| <b>Acoustic</b>                                                                            |         |           |
| LwO env (A-weighted sound level outdoor near the envelope for non ducted units )           | 65      | dB(A)     |
| Lwl1 env (A-weighted sound power level indoor unit 1 (non ducted))                         | 58      | dB(A)     |
| <b>Standard Cooling/Cooling PL Cond A</b>                                                  |         |           |
| Pc (Total Cooling Capacity)                                                                | 5       | kW        |
| Pec (Effective Power Input for Cooling (for chilled water cooled Close Control units only) | 1.39    | kW        |
| EER (Energy Efficiency Ratio)                                                              | 3.6     |           |
| <b>Cooling PL CondB</b>                                                                    |         |           |
| Pc @ 30°C (Declared Cooling Capacity @ 30°C)                                               | 3.7     | kW        |
| EER @ 30°C (Declared Energy Efficiency @ 30°C )                                            | 5.3     |           |
| <b>Cooling PL CondC</b>                                                                    |         |           |
| Pc @ 25°C (Declared Cooling Capacity @ 25°C)                                               | 2.3     | kW        |
| EER @ 25°C (Declared Energy Efficiency @ 25°C)                                             | 8.6     |           |
| <b>Cooling PL CondD</b>                                                                    |         |           |
| Pc @ 20°C (Declared Cooling Capacity @ 20°C)                                               | 1.6     | kW        |
| EER @ 20°C (Declared Energy Efficiency @ 20°C )                                            | 11.8    |           |
| <b>Standard Heating</b>                                                                    |         |           |
| Ph (Heating Capacity)                                                                      | 6       | kW        |
| Peh (Net Electric Power Consumption for Heating Only application )                         | 1.7     | kW        |
| COP (Coefficient Of Performance)                                                           | 3.53    |           |



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| Heating PL CondA                                                                       |        |           |
|----------------------------------------------------------------------------------------|--------|-----------|
| Ph @ -7°C (Declared Heating Capacity @ -7°C)                                           | 3.3    | kW        |
| COP @ -7°C (Declared Coefficient Of Performances @ -7°C)                               | 3.3    |           |
| Heating PL CondB                                                                       |        |           |
| Ph @ +2°C (Declared Heating Capacity @ +2°C)                                           | 2.2    | kW        |
| COP @ 2°C (Declared Coefficient Of Performances @ 2°C)                                 | 4      |           |
| Heating PL CondC                                                                       |        |           |
| Ph @ +7°C (Declared Heating Capacity @ +7°C)                                           | 1.6    | kW        |
| COP @ +7°C (Declared Coefficient Of Performances @ +7°C)                               | 5.3    |           |
| Heating PL CondD                                                                       |        |           |
| Ph @ +12°C (Declared Heating Capacity @ +12°C)                                         | 1.5    | kW        |
| COP @ +12°C (Declared Coefficient Of Performances @ +12°C)                             | 6.3    |           |
| Bivalent Point                                                                         |        |           |
| Tbiv (Bivalent Temperature)                                                            | -10    | °C        |
| COP @ Tbiv (Declared coefficient of performances at bivalent temperature condition)    | 2.7    |           |
| Ph TBiv (Heating capacity at bivalent temperature)                                     | 3.8    | kW        |
| TOL Runing Test                                                                        |        |           |
| TOL (Operating LimitTemperature )                                                      | -11    | °C        |
| Ph E (Declared Heating Capacity @ TOL)                                                 | 3.8    | kW        |
| COP E (Declared Coefficient Of Performances @ TOL)                                     | 2.9    |           |
| Heating Warmer Climate                                                                 |        |           |
| SCOP (Refrence SCOP Warmer Climate)                                                    | 4.8    |           |
| SCOP Class warmer climate (Seasonal Coefficient Of Performance Class (warmer climate)) | A++    |           |
| Qhe (Annual Electricity consumption)                                                   | 641.67 | kWh/annum |
| Poffc                                                                                  |        |           |
| Poff (Power consumption in off mode)                                                   | 3      | W         |
| Psb                                                                                    |        |           |
| Psb (Power consumption in standby mode cooling (Paux, cooling))                        | 3      | W         |
| Ptoc                                                                                   |        |           |
| Pto (Power consumption in thermostat off mode)                                         | 40     | W         |
| General                                                                                |        |           |

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| FEATURE                                     | VALUE        | UNIT |
|---------------------------------------------|--------------|------|
| General                                     |              |      |
| Inverter (Inverter (True/False))            | true         |      |
| Refr. Line (Refrigerant Line. If possible ) | 5            | m    |
| Mounting (Mounting Type)                    | Wall mounted |      |