

# PRODUCT PERFORMANCE RATING

**Document ID 1667402578-c4-31134c99**

Issued on: 2 November 2022 - Délivré le : 2 novembre 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° 17.02.236****This document is valid at the date of issue - Check the current validity on [www.eurovent-certification.com](http://www.eurovent-certification.com)***Ce document est valide à la date d'édition - Vérifiez la date de validité sur [www.eurovent-certification.com](http://www.eurovent-certification.com)*

Certification programmes / Programmes de certification

Eurovent Heat Pumps (Heat pumps Eurovent)

Product type / Type de produit

Air to air, multi split, heating, and cooling ( $\leq 12$  kW)

Model name / Nom du modèle

AJ080TXJ4KG / AR07TXFCAWK / AR24TXEAAWK

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)                                                             | 7.45  | kW        |
| SEER (Seasonal Energy Efficiency Ratio)                                                    | 5.28  |           |
| Qce (Annual electricity consumption for cooling)                                           | 494   | kWh/annum |
| SEER Class (Seasonal Energy Efficiency Ratio Class)                                        | A     |           |
| <b>Heating Average Climate</b>                                                             |       |           |
| Pdesignh (Design load heating )                                                            | 5.2   | kW        |
| SCOP (Reference SCOP)                                                                      | 3.8   |           |
| SCOP Class (Seasonal Coefficient Of Performance Class)                                     | A     |           |
| Qhe (Annual electricity consumption for heating)                                           | 1918  | kWh/annum |
| <b>Acoustic</b>                                                                            |       |           |
| LwO env (A-weighted sound level outdoor near the envelope for non ducted units )           | 64    | dB(A)     |
| Lwl1 env (A-weighted sound power level indoor unit 1 (non ducted))                         | 54    | dB(A)     |
| Lwl2 env (A-weighted sound power level indoor unit 2 (non ducted))                         | 62    | dB(A)     |
| <b>Thermal</b>                                                                             |       |           |
| Pc (Total Cooling Capacity)                                                                | 7.45  | kW        |
| Pec (Effective Power Input for Cooling (for chilled water cooled Close Control units only) | 2.28  | kW        |
| EER (Energy Efficiency Ratio)                                                              | 3.27  |           |
| <b>Cooling PL CondB</b>                                                                    |       |           |
| Pc @ 30°C (Declared Cooling Capacity @ 30°C)                                               | 5.49  | kW        |
| EER @ 30°C (Declared Energy Efficiency @ 30°C )                                            | 4.44  |           |
| <b>Cooling PL CondC</b>                                                                    |       |           |
| Pc @ 25°C (Declared Cooling Capacity @ 25°C)                                               | 3.53  | kW        |
| EER @ 25°C (Declared Energy Efficiency @ 25°C)                                             | 6.52  |           |
| <b>Cooling PL CondD</b>                                                                    |       |           |
| Pc @ 20°C (Declared Cooling Capacity @ 20°C)                                               | 2.95  | kW        |
| EER @ 20°C (Declared Energy Efficiency @ 20°C )                                            | 8.94  |           |
| <b>Standard Heating</b>                                                                    |       |           |
| Ph (Heating Capacity)                                                                      | 8.12  | kW        |
| Peh (Net Electric Power Consumption for Heating Only application )                         | 2.25  | kW        |

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| FEATURE                                                                                | VALUE | UNIT |
|----------------------------------------------------------------------------------------|-------|------|
| <b>Standard Heating</b>                                                                |       |      |
| COP (Coefficient Of Performance)                                                       | 3.61  |      |
| <b>Heating PL CondA</b>                                                                |       |      |
| Ph @ -7°C (Declared Heating Capacity @ -7°C)                                           | 4.6   | kW   |
| COP @ -7°C (Declared Coefficient Of Performances @ -7°C)                               | 2.6   |      |
| <b>Heating PL CondB</b>                                                                |       |      |
| Ph @ +2°C (Declared Heating Capacity @ +2°C)                                           | 2.8   | kW   |
| COP @ 2°C (Declared Coefficient Of Performances @ 2°C)                                 | 3.85  |      |
| <b>Heating PL CondC</b>                                                                |       |      |
| Ph @ +7°C (Declared Heating Capacity @ +7°C)                                           | 3.2   | kW   |
| COP @ +7°C (Declared Coefficient Of Performances @ +7°C)                               | 5.1   |      |
| <b>Heating PL CondD</b>                                                                |       |      |
| Ph @ +12°C (Declared Heating Capacity @ +12°C)                                         | 3.89  | kW   |
| COP @ +12°C (Declared Coefficient Of Performances @ +12°C)                             | 6.35  |      |
| <b>Bivalent Point</b>                                                                  |       |      |
| Tbiv (Bivalent Temperature)                                                            | -7    | °C   |
| Ph TBiv (Heating capacity at bivalent temperature)                                     | 4.6   | kW   |
| COP @ Tbiv (Declared coefficient of performances at bivalent temperature condition)    | 2.6   |      |
| <b>TOL Runing Test</b>                                                                 |       |      |
| TOL (Operating LimitTemperature )                                                      | -10   | °C   |
| Ph E (Declared Heating Capacity @ TOL)                                                 | 5     | kW   |
| COP E (Declared Coefficient Of Performances @ TOL)                                     | 2.24  |      |
| <b>Heating Colder Climate</b>                                                          |       |      |
| SCOP Class colder climate (Seasonal Coefficient Of Performance Class (colder climate)) | G     |      |
| <b>Heating Warmer Climate</b>                                                          |       |      |
| SCOP Class warmer climate (Seasonal Coefficient Of Performance Class (warmer climate)) | G     |      |
| <b>AC Poffc</b>                                                                        |       |      |
| Poff (Power consumption in off mode)                                                   | 12    | W    |
| <b>AC Psbc (RT2012)</b>                                                                |       |      |
| Psb (Power consumption in standby mode cooling (Paux, cooling))                        | 12    | W    |



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| AC Pto                                                   |              |   |
|----------------------------------------------------------|--------------|---|
| Pto (Power consumption in thermostat off mode)           | 73           | W |
| General                                                  |              |   |
| Inverter (Inverter (True/False))                         | true         |   |
| Refrigerant                                              | R32          |   |
| Refr. Line (Refrigerant Line. If possible )              | 5            | m |
| Main Power Supply (Voltage (V) - Phase - Frequency (Hz)) | 230-1-50     |   |
| Mounting (Mounting Type)                                 | Wall mounted |   |
| Capacity Control                                         | Variable     |   |

## Eurovent Heat Pumps / Pompes à chaleur Eurovent

Range Name / Nom de Gamme :  
**INVERTER (AC1)**

Granted on February 14, 2017 - Date 1ère admission 14 février 2017

This document is valid at the date of issue - Check the current validity on:  
Document valable à la date d'émission - Vérifier la validité en cours sur :  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

### Participant/Titulaire

SAMSUNG Electronics Co. Ltd  
129, SAMSUNG-RO, YEONGTONG-GU - GYEONGGI-DO  
443-742 SUWON CITY , Korea

This product performance certificate is issued by Eurovent Certita Certification according to the certification rules:

**ECP Eurovent-HP - « Eurovent Heat Pumps » in force at established date.**

Pursuant to the decision notified by Eurovent Certita Certification, the right to use the mark ECP shall be granted to the beneficiary company for the above Range in the conditions defined by the certification program mentioned.

Unless withdrawn or suspended, this certificate remains valid as long as the requirements for the certification program framework are met. The validity of the certificate is to be verified on [www.eurovent-certification.com](http://www.eurovent-certification.com)

THIS CERTIFICATE HAS BEEN ISSUED ON 18/10/2022  
THIS CERTIFICATE IS VALID UNTIL 31/10/2023

Ce certificat de performance produit est délivré par Eurovent Certita Certification dans les conditions fixées par le référentiel :

**ECP Eurovent-HP – « Pompes à chaleur Eurovent » en vigueur à date d'édition.**

En vertu de la décision notifiée par Eurovent Certita Certification, le droit d'usage de la marque ECP, est accordé à la société qui en est bénéficiaire pour la gamme visée ci-dessus, dans les conditions définies par le programme de certification mentionné.

Sauf retrait ou suspension, ce certificat demeure valide tant que les conditions du référentiel du programme de certification sont respectées. La validité du certificat est à vérifier sur le site Internet [www.eurovent-certification.com](http://www.eurovent-certification.com)

CE CERTIFICAT A ÉTÉ EMIS LE 18/10/2022  
CE CERTIFICAT EST VALIDE JUSQU'AU 31/10/2023

Paris, 18 octobre 2022



Organisme accrédité n° 5-0517 Certification Produits et Services selon la norme NF EN ISO/CEI 17065:2012  
Portée disponible sur [www.cofrac.fr](http://www.cofrac.fr)

Accreditation #5-0517 Products and Services Certification according to NF EN ISO/CEI 17065:2012 –  
Scope available on [www.cofrac.fr](http://www.cofrac.fr)

COFRAC est signataire des accords MLA d'EA et MLA d'IAF,  
COFRAC is signatory of EA MLA and IAF MLA,  
list of EA members is available on [www.european-accreditation.org/ea-members](http://www.european-accreditation.org/ea-members)  
list of IAF members is available on [www.iaf.nu/articles/IAF\\_MEMBERS\\_SIGNATORIES/4](http://www.iaf.nu/articles/IAF_MEMBERS_SIGNATORIES/4)

MANAGING BOARD MEMBER / MEMBRE DIRECTOIRE



## Appendix / Annexe

Granted on February 14, 2017 - Date 1ère admission 14 février 2017

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List of certified products and characteristics is displayed on:

La liste des références et caractéristiques certifiées est disponible sur le site :

[www.eurovent-certification.com](http://www.eurovent-certification.com)

This product performance certificate is valid for the following trade names:

Ce certificat de performance produit est valide pour les marques commerciales suivantes:

[Trade Name / Marque Commerciale](#)

SAMSUNG

This product performance certificate is valid for the following manufacturing places:

Ce certificat de performance produit est valide pour les sites de production suivants:

[Manufacturing Place / Site de Production](#)

Not applicable for this certification programme / Non applicable pour ce programme de certification

This product performance certificate is valid for the following software:

Ce certificat de performance produit est valide pour les logiciels de sélection suivants:

[Software / Logiciel de sélection](#)

Not applicable for this certification programme / Non applicable pour ce programme de certification