



## MŰSZAKI MEGFELELŐSÉGI NYILATKOZAT

A Columbus Klímaértékesítő Kft. mint a gyártó magyarországi hivatalos képviselője, ezúton igazoljuk a Fisher FSAUIF-Art-123AE3-B-G-S/FSOAIF-Art-123AE3 levegő-levegő hőszivattyú COP megfelelőségét, azaz hogy a COP<sub>A2/A20</sub> ≥ 3.

Hivatkozva az „Európai Bizottság 206/2012/EU (2012. március 6.) rendelet a 2009/125/EK európai parlamenti és tanácsi irányelvnek a légkondicionáló berendezések és a háztartási ventilátorok környezetbarát tervezésére vonatkozó követelmények tekintetében történő végrehajtásról” szülő rendelete 3. cikk a Környezetbarát tervezési követelmények és időütemezés (2) bekezdés a) pontjára, amely kimondja: a légkondicionáló berendezések – az egysöves és a kétsöves légkondicionáló berendezések kivételével – meg kell felelniük az I. melléklet 2. pontjának b) alpontjában, 3. pontjának a), b) és c) alpontjában előírt követelményeknek;

E melléklet, amelyet részletesen a rendelet I. melléklet 3. pontja amely a Termékinformációs követelményeket taglaja, annak 1. táblázata szerinti, a gyártó által megadott táblázat alapja jelen igazolásnak.

A melléklet vonatkozó pontjának megjegyzés rovata szerint: A gyártónak a fenti 1. táblázatban megjelölt adatokat annyiban kell feltüntetnie a termék műszaki dokumentációjában, amennyiben az a funkcionalitás szempontjából lényeges.

Erre való hivatkozással a táblázatot csak a „funkcionalitás szempontjából lényeges” adatokkal adtuk meg.

A COP igazolást a gyártó ezen rendeletben a fent leírt módon adja meg a vonatkozó adatokat:

| Information requirements                                                                                                                                                                                                                                                                      |                              |       |      |                                                                                                                                                                                                      |        |       |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|------|
| This information includes the results of calculation of the seasonal energy consumption and efficiency for air conditioner in regards to ErP pursuant to the Commission Regulation(EU) No.206/2012 and No.626/2011. Information to identify the model(s) to which the information relates to: |                              |       |      |                                                                                                                                                                                                      |        |       |      |
| AIR CONDITIONER                                                                                                                                                                                                                                                                               |                              |       |      |                                                                                                                                                                                                      |        |       |      |
| TYPE                                                                                                                                                                                                                                                                                          | : SPLIT                      |       |      |                                                                                                                                                                                                      |        |       |      |
|                                                                                                                                                                                                                                                                                               | WALL-MOUNTED                 |       |      |                                                                                                                                                                                                      |        |       |      |
| Indoor unit(s)                                                                                                                                                                                                                                                                                | : FSAUIF-Art-123AE3-B /G / S |       |      |                                                                                                                                                                                                      |        |       |      |
| Outdoor unit                                                                                                                                                                                                                                                                                  | : FSOAIF-Art-123AE3          |       |      |                                                                                                                                                                                                      |        |       |      |
| Brand                                                                                                                                                                                                                                                                                         | : MIDEA                      |       |      |                                                                                                                                                                                                      |        |       |      |
| Function (indicate if present)                                                                                                                                                                                                                                                                |                              |       |      | if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'. |        |       |      |
| cooling                                                                                                                                                                                                                                                                                       |                              | Y     |      | Average (mandatory)                                                                                                                                                                                  |        | Y     |      |
| heating                                                                                                                                                                                                                                                                                       |                              | Y     |      | Warmer (if designated)                                                                                                                                                                               |        | N     |      |
|                                                                                                                                                                                                                                                                                               |                              |       |      | Colder (if designated)                                                                                                                                                                               |        | N     |      |
| Item                                                                                                                                                                                                                                                                                          | symbol                       | value | unit | Item                                                                                                                                                                                                 | symbol | value | unit |
| Design load                                                                                                                                                                                                                                                                                   |                              |       |      | Seasonal efficiency                                                                                                                                                                                  |        |       |      |
| cooling                                                                                                                                                                                                                                                                                       | Pdesignc                     | 3,5   | kW   | cooling                                                                                                                                                                                              | SEER   | 8,5   | -    |
| heating/Average                                                                                                                                                                                                                                                                               | Pdesignh                     | 2,5   | kW   | heating/Average                                                                                                                                                                                      | SCOP/A | 4,6   | -    |
| heating/Warmer                                                                                                                                                                                                                                                                                | Pdesignh                     | x,x   | kW   | heating/Warmer                                                                                                                                                                                       | SCOP/W | x,x   | -    |
| heating/Colder                                                                                                                                                                                                                                                                                | Pdesignh                     | x,x   | kW   | heating/Colder                                                                                                                                                                                       | SCOP/C | x,x   | -    |

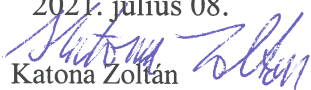
|                                                                                                        |        |       |      |                                                                                                              |        |       |      |
|--------------------------------------------------------------------------------------------------------|--------|-------|------|--------------------------------------------------------------------------------------------------------------|--------|-------|------|
| Declared capacity(*) for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj            |        |       |      | Declared energy efficiency ratio(*), at indoor temperature 27(19)°C and outdoor temperature Tj               |        |       |      |
| Item                                                                                                   | symbol | value | unit | Item                                                                                                         | symbol | value | unit |
| Tj = 35°C                                                                                              | Pdc    | 3,500 | kW   | Tj = 35°C                                                                                                    | EERd   | 3,74  | -    |
| Tj = 30°C                                                                                              | Pdc    | 2,409 | kW   | Tj = 30°C                                                                                                    | EERd   | 5,89  | -    |
| Tj = 25°C                                                                                              | Pdc    | 1,524 | kW   | Tj = 25°C                                                                                                    | EERd   | 10,40 | -    |
| Tj = 20°C                                                                                              | Pdc    | 1,086 | kW   | Tj = 20°C                                                                                                    | EERd   | 17,42 | -    |
| Declared capacity(*) for heating/Average season, at indoor temperature 20°C and outdoor temperature Tj |        |       |      | Declared coefficient of performance(*)/Average season, at indoor temperature 20°C and outdoor temperature Tj |        |       |      |
| Item                                                                                                   | symbol | value | unit | Item                                                                                                         | symbol | value | unit |
| Tj = -7°C                                                                                              | Pdh    | 2,212 | kW   | Tj = -7°C                                                                                                    | COPd   | 3,11  | -    |
| Tj = 2°C                                                                                               | Pdh    | 1,356 | kW   | Tj = 2°C                                                                                                     | COPd   | 4,62  | -    |
| Tj = 7°C                                                                                               | Pdh    | 0,912 | kW   | Tj = 7°C                                                                                                     | COPd   | 5,72  | -    |
| Tj = 12°C                                                                                              | Pdh    | 0,721 | kW   | Tj = 12°C                                                                                                    | COPd   | 6,96  | -    |
| Tj = bivalent temperature                                                                              | Pdh    | 2,212 | kW   | Tj = bivalent temperature                                                                                    | COPd   | 3,11  | -    |
| Tj = operating limit                                                                                   | Pdh    | 1,991 | kW   | Tj = operating limit                                                                                         | COPd   | 2,90  | -    |
| Declared capacity(*) for heating/Warmer season, at indoor temperature 20°C and outdoor temperature Tj  |        |       |      | Declared coefficient of performance(*)/Warmer season, at indoor temperature 20°C and outdoor temperature Tj  |        |       |      |
| Item                                                                                                   | symbol | value | unit | Item                                                                                                         | symbol | value | unit |
| Tj = 2°C                                                                                               | Pdh    | x,x   | kW   | Tj = 2°C                                                                                                     | COPd   | x,x   | -    |
| Tj = 7°C                                                                                               | Pdh    | x,x   | kW   | Tj = 7°C                                                                                                     | COPd   | x,x   | -    |
| Tj = 12°C                                                                                              | Pdh    | x,x   | kW   | Tj = 12°C                                                                                                    | COPd   | x,x   | -    |
| Tj = bivalent temperature                                                                              | Pdh    | x,x   | kW   | Tj = bivalent temperature                                                                                    | COPd   | x,x   | -    |
| Tj = operating limit                                                                                   | Pdh    | x,x   | kW   | Tj = operating limit                                                                                         | COPd   | x,x   | -    |
| Declared capacity(*) for heating/Colder season, at indoor temperature 20°C and outdoor temperature Tj  |        |       |      | Declared coefficient of performance(*)/Colder season, at indoor temperature 20°C and outdoor temperature Tj  |        |       |      |
| Item                                                                                                   | symbol | value | unit | Item                                                                                                         | symbol | value | unit |
| Tj = -7°C                                                                                              | Pdh    | x,x   | kW   | Tj = -7°C                                                                                                    | COPd   | x,x   | -    |
| Tj = 2°C                                                                                               | Pdh    | x,x   | kW   | Tj = 2°C                                                                                                     | COPd   | x,x   | -    |
| Tj = 7°C                                                                                               | Pdh    | x,x   | kW   | Tj = 7°C                                                                                                     | COPd   | x,x   | -    |
| Tj = 12°C                                                                                              | Pdh    | x,x   | kW   | Tj = 12°C                                                                                                    | COPd   | x,x   | -    |
| Tj = bivalent temperature                                                                              | Pdh    | x,x   | kW   | Tj = bivalent temperature                                                                                    | COPd   | x,x   | -    |
| Tj = operating limit                                                                                   | Pdh    | x,x   | kW   | Tj = operating limit                                                                                         | COPd   | x,x   | -    |
| Tj = -15°C                                                                                             | Pdh    | x,x   | kW   | Tj = -15°C                                                                                                   | COPd   | x,x   | -    |
| Bivalent temperature                                                                                   |        |       |      | Operating limit temperature                                                                                  |        |       |      |
| heating/Average                                                                                        | Tbiv   | -7    | °C   | heating/Average                                                                                              | Tol    | -15   | °C   |
| heating/Warmer                                                                                         | Tbiv   | x     | °C   | heating/Warmer                                                                                               | Tol    | x     | °C   |
| heating/Colder                                                                                         | Tbiv   | x     | °C   | heating/Colder                                                                                               | Tol    | x     | °C   |
| Cycling interval capacity                                                                              |        |       |      | Cycling interval efficiency                                                                                  |        |       |      |
| for cooling                                                                                            | Pcycc  | x,x   | kW   | heating/Average                                                                                              | EERcyc | x,x   | -    |
| for heating                                                                                            | Pcyh   | x,x   | kW   | heating/Warmer                                                                                               | COPcyc | x,x   | -    |
| Degradation co-efficient cooling                                                                       | Cdc    | 0,25  | -    | Degradation co-efficient heating                                                                             | Cdc    | 0,25  | -    |

| Electric power input in power modes other than 'active mode' |        |       |      | Annual electricity consumption     |                 |          |                      |
|--------------------------------------------------------------|--------|-------|------|------------------------------------|-----------------|----------|----------------------|
| off mode                                                     | Poff   | 0,001 | kW   | cooling                            | Q <sub>CE</sub> | 146      | kWh/a                |
| standby mode                                                 | Psb    | 0,001 | kW   | heating/Average                    | Q <sub>he</sub> | 778      | kWh/a                |
| thermostat-off mode                                          | Pto    | 0,008 | kW   | heating/Warmer                     | Q <sub>he</sub> | x        | kWh/a                |
| crankcase heater mode                                        | Pck    | 0     | kW   | heating/Colder                     | Q <sub>he</sub> | x        | kWh/a                |
| Capacity control(indicate one of the options)                |        |       |      | Other items                        |                 |          |                      |
| Item                                                         | symbol | value | unit | Item                               | symbol          | value    | unit                 |
| fixed                                                        |        | Y/N   |      | Sound power level (indoor/outdoor) | LWA             | 51/60    | dB(A)                |
| staged                                                       |        | Y/N   |      | Global warming potential           | GWP             | 675      | kgCO <sub>2</sub> eq |
| variable                                                     |        | Y     |      | Rated air flow (indoor/outdoor)    | -               | 558/2200 | m <sup>3</sup> /h    |

tehát  $COP_{A2/A20} = 4,62$

azaz a keresett COP alapján a berendezés megfelel a követelménynek.

Dátum: 2021. július 08.

Aláírás:   
Név: Katona Zoltán  
gépészmérnök

Columbus Klímaértékesítő Kft.  
2142 Nagytarcsa, Pesti út 15.  
Adószám: 13848725-2-13  
Bsz: 14100000-22078949-01000008  
7.