

|                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                                 |                                    |                                                                                                                                         |                                |        |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------|------|
| Model(s) : FDC121KXZEN1-W                                                                                                                                                                                                                                                                                                                                                                                             |                  |                                                 |                                    |                                                                                                                                         |                                |        |      |
| Outdoor side heat exchanger of air conditioner :                                                                                                                                                                                                                                                                                                                                                                      |                  |                                                 |                                    | air                                                                                                                                     |                                |        |      |
| Indoor side heat exchanger of air conditioner :                                                                                                                                                                                                                                                                                                                                                                       |                  |                                                 |                                    | air                                                                                                                                     |                                |        |      |
| Type : vapour compression                                                                                                                                                                                                                                                                                                                                                                                             |                  |                                                 |                                    |                                                                                                                                         |                                |        |      |
| if applicable : electric motor                                                                                                                                                                                                                                                                                                                                                                                        |                  |                                                 |                                    |                                                                                                                                         |                                |        |      |
| Item                                                                                                                                                                                                                                                                                                                                                                                                                  | Symbol           | Value                                           | Unit                               | Item                                                                                                                                    | Symbol                         | Value  | Unit |
| Rated cooling capacity                                                                                                                                                                                                                                                                                                                                                                                                | Prated,c         | 12.1                                            | kW                                 | Seasonal space cooling energy efficiency                                                                                                | $\eta_{s,c}$                   | 384.0  | %    |
| Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°C/19°C(dry/wet bulb)                                                                                                                                                                                                                                                                                                           |                  |                                                 |                                    | Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj |                                |        |      |
| Tj=+35°C                                                                                                                                                                                                                                                                                                                                                                                                              | Pdc              | 12.1                                            | kW                                 | Tj=+35°C                                                                                                                                | EERd or<br>GUEc,bin / AEFc,bin | 408.0  | %    |
| Tj=+30°C                                                                                                                                                                                                                                                                                                                                                                                                              | Pdc              | 8.9                                             | kW                                 | Tj=+30°C                                                                                                                                | EERd or<br>GUEc,bin / AEFc,bin | 714.0  | %    |
| Tj=+25°C                                                                                                                                                                                                                                                                                                                                                                                                              | Pdc              | 5.7                                             | kW                                 | Tj=+25°C                                                                                                                                | EERd or<br>GUEc,bin / AEFc,bin | 1327.0 | %    |
| Tj=+20°C                                                                                                                                                                                                                                                                                                                                                                                                              | Pdc              | 5.5                                             | kW                                 | Tj=+20°C                                                                                                                                | EERd or<br>GUEc,bin / AEFc,bin | 2105.0 | %    |
| Degradation coefficient for air conditioners**                                                                                                                                                                                                                                                                                                                                                                        | Cdc              | 0.25                                            | -                                  |                                                                                                                                         |                                |        |      |
| Power consumption in other than 'active mode'                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                 |                                    |                                                                                                                                         |                                |        |      |
| Off mode                                                                                                                                                                                                                                                                                                                                                                                                              | P <sub>OFF</sub> | 0.006                                           | kW                                 | Crankcase heater mode                                                                                                                   | P <sub>CK</sub>                | 0.025  | kW   |
| Thermostat-off mode                                                                                                                                                                                                                                                                                                                                                                                                   | P <sub>TO</sub>  | 0.000                                           | kW                                 | Standby mode                                                                                                                            | P <sub>SB</sub>                | 0.006  | kW   |
| Other items                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                                 |                                    | For air-to-air air conditioner:<br>air flow-rate,outdoor measured                                                                       |                                |        |      |
| Capacity control                                                                                                                                                                                                                                                                                                                                                                                                      |                  | variable                                        |                                    | 4500 m <sup>3</sup> /h                                                                                                                  |                                |        |      |
| Sound power level, outdoor                                                                                                                                                                                                                                                                                                                                                                                            | L <sub>WA</sub>  | 68.0                                            | dB                                 |                                                                                                                                         |                                |        |      |
| If engine driven:<br>Emissions of nitrogen oxides                                                                                                                                                                                                                                                                                                                                                                     | NOx ***          | -                                               | mg/kWh<br>fuel input<br>GCV        |                                                                                                                                         |                                |        |      |
| GWP of the refrigerant                                                                                                                                                                                                                                                                                                                                                                                                |                  | 675                                             | kg CO <sub>2eq</sub><br>(100years) |                                                                                                                                         |                                |        |      |
| Contact details                                                                                                                                                                                                                                                                                                                                                                                                       |                  | Mitsubishi heavy industries thermal systems,LTD |                                    |                                                                                                                                         |                                |        |      |
| <p>** If Cdc is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.</p> <p>*** from 26 September 2018</p> <p>Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.</p> |                  |                                                 |                                    |                                                                                                                                         |                                |        |      |

|                                                                                                                                                                                                                                                   |                  |                                                 |                                 |                                                                                                                                            |                             |       |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------|------|
| Information to identify the model(s) to which the information relates : FDC121KXZEN1-W                                                                                                                                                            |                  |                                                 |                                 |                                                                                                                                            |                             |       |      |
| Outdoor side heat exchanger of heat pump :                                                                                                                                                                                                        |                  |                                                 |                                 | air                                                                                                                                        |                             |       |      |
| Indoor side heat exchanger of heat pump :                                                                                                                                                                                                         |                  |                                                 |                                 | air                                                                                                                                        |                             |       |      |
| Indication if the heater is equipped with a supplementary heater :                                                                                                                                                                                |                  |                                                 |                                 | No                                                                                                                                         |                             |       |      |
| if applicable :                                                                                                                                                                                                                                   |                  |                                                 |                                 | electric motor                                                                                                                             |                             |       |      |
| Parameters shall be declared for the average heating season , parameters for the warmer and colder heating seasons are optional.                                                                                                                  |                  |                                                 |                                 |                                                                                                                                            |                             |       |      |
| Item                                                                                                                                                                                                                                              | Symbol           | Value                                           | Unit                            | Item                                                                                                                                       | Symbol                      | Value | Unit |
| Rated heating capacity                                                                                                                                                                                                                            | Prated,h         | 12.1                                            | kW                              | Seasonal space heating energy efficiency                                                                                                   | $\eta$ s,h                  | 184.2 | %    |
| Declared heating capacity for part load at indoor temperature 20°C and outdoor temperature Tj                                                                                                                                                     |                  |                                                 |                                 | Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj |                             |       |      |
| Tj=-7°C                                                                                                                                                                                                                                           | Pdh              | 7.4                                             | kW                              | Tj=-7°C                                                                                                                                    | COPd or GUEh,bin / AEFh,bin | 311.0 | %    |
| Tj=+2°C                                                                                                                                                                                                                                           | Pdh              | 4.5                                             | kW                              | Tj=+2°C                                                                                                                                    | COPd or GUEh,bin / AEFh,bin | 423.0 | %    |
| Tj=+7°C                                                                                                                                                                                                                                           | Pdh              | 2.9                                             | kW                              | Tj=+7°C                                                                                                                                    | COPd or GUEh,bin / AEFh,bin | 683.0 | %    |
| Tj=+12°C                                                                                                                                                                                                                                          | Pdh              | 3.6                                             | kW                              | Tj=+12°C                                                                                                                                   | COPd or GUEh,bin / AEFh,bin | 896.0 | %    |
| Tbiv=bivalent temperature                                                                                                                                                                                                                         | Pdh              | 8.4                                             | kW                              | Tbiv=bivalent temperature                                                                                                                  | COPd or GUEh,bin / AEFh,bin | 274.0 | %    |
| TOL=operation limit                                                                                                                                                                                                                               | Pdh              | 6.7                                             | kW                              | TOL=operation limit                                                                                                                        | COPd or GUEh,bin / AEFh,bin | 226.0 | %    |
| For air-to-water heat pumps : Tj=-15°C (if TOL < -20°C)                                                                                                                                                                                           | Pdh              | -                                               | kW                              | For air-to-water heat pumps: Tj=-15°C (if TOL < -20°C)                                                                                     | COPd or GUEh,bin / AEFh,bin | -     | %    |
| Bivalent temperature                                                                                                                                                                                                                              | Tbiv             | -10.0                                           | °C                              | For water-to-air heat pumps: Operation limit Td temperature                                                                                |                             | -     | °C   |
| Degradation coefficient heat pumps**                                                                                                                                                                                                              | Cdh              | 0.25                                            | -                               |                                                                                                                                            |                             |       |      |
| Power consumption in modes other than 'active mode'                                                                                                                                                                                               |                  |                                                 |                                 | Supplementary heater back-up heating capacity                                                                                              |                             |       |      |
| Off mode                                                                                                                                                                                                                                          | P <sub>OFF</sub> | 0.006                                           | kW                              |                                                                                                                                            | elbu                        | -     | kW   |
| Thermostat-off mode                                                                                                                                                                                                                               | P <sub>TO</sub>  | 0.031                                           | kW                              | Type of energy input                                                                                                                       | P <sub>SB</sub>             | 0.006 | kW   |
| Crankcase heater mode                                                                                                                                                                                                                             | P <sub>CK</sub>  | 0.025                                           | kW                              | Standby mode                                                                                                                               |                             |       |      |
| Other items                                                                                                                                                                                                                                       |                  |                                                 |                                 | For air-to-air heat pumps: air flow-rate,outdoor measured                                                                                  |                             |       |      |
| Capacity control                                                                                                                                                                                                                                  |                  | variable                                        |                                 |                                                                                                                                            |                             | 4500  | m3/h |
| Sound power level, outdoor measured                                                                                                                                                                                                               | L <sub>WA</sub>  | 71.0                                            | dB                              | For water-/brine-to-air heat pumps : Rated brine or water flow-rate, outdoor side heat exchanger                                           |                             | -     | m3/h |
| Emissions of nitrogen oxides(if applicable)                                                                                                                                                                                                       | NOx ***          | -                                               | mg/kWh fuel input GCV           |                                                                                                                                            |                             |       |      |
| GWP of the refrigerant                                                                                                                                                                                                                            |                  | 675                                             | kg CO <sub>2eq</sub> (100years) |                                                                                                                                            |                             |       |      |
| Contact details                                                                                                                                                                                                                                   |                  | Mitsubishi heavy industries thermal systems,LTD |                                 |                                                                                                                                            |                             |       |      |
| ** If Cdh is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.                                                                                                                               |                  |                                                 |                                 |                                                                                                                                            |                             |       |      |
| *** from 26 September 2018                                                                                                                                                                                                                        |                  |                                                 |                                 |                                                                                                                                            |                             |       |      |
| Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer. |                  |                                                 |                                 |                                                                                                                                            |                             |       |      |