|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  | **Application form (Annex 1)** | |  |
|  |  |  |  |
|  | **DE-UZ 230 – Edition July 2023** | **Heat pumps** |  |
|  |  |  |  |

**Company information**

|  |  |
| --- | --- |
| Company name: |  |
| Full address: |  |
|  |  |
|  |  |

**Contact person**

|  |  |
| --- | --- |
| Name: |  |
| Function: |  |
| Phone number: |  |
| E-mail-address: |  |

**Product details**

|  |  |
| --- | --- |
| Trade name of the product: |  |
| Production site: |  |

**Mark which category the product belongs to:**

|  |  |
| --- | --- |
|  | air/water heat pumps |
|  | brine/water heat pumps |
|  | water/water heat pumps |

|  |  |
| --- | --- |
| Does the heat pump has an electrically driven compressor? yes |  |
| no |  |

|  |  |
| --- | --- |
| Is domestic water heating available? yes |  |
| no |  |

**3.1 Refrigerant**

|  |  |
| --- | --- |
| The heat pump is free of refrigerants containing halogens. |  |

The following refrigerants are used:

|  |  |
| --- | --- |
| Chemical name: |  |
| Industrial name: |  |

|  |  |
| --- | --- |
| The GWP-value is: |  |

**3.2 Energy efficiency**

|  |  |
| --- | --- |
| The heat pump has a seasonal coefficient of performance (SCOP) for average climatic conditions of: |  |

|  |  |
| --- | --- |
| A test document on determining the efficiency values of the heat pump in accordance to the compensation method is attached. |  |

**3.3 Energy efficiency display**

|  |  |
| --- | --- |
| The heat pumps comes with an energy efficiency display. |  |

|  |  |
| --- | --- |
| The energy consumption values and heat outputs are displayed in accordance with the document “Bundesförderung für effiziente Gebäude – Liste der technischen FAQ – BEG EM” (Federal Funding for Efficient Buildings – List of technical FAQ – BEG EM). The energy consumption values do also include any auxiliary electricity required to operate electric heating rods and heat source pumps. |  |

The display shows the following information:

|  |  |
| --- | --- |
|  | measured average energy efficiency per month or quarter and also for each calendar year |
|  | rating of the measured energy efficiency against an expected value |

|  |  |
| --- | --- |
| The data is recorded at regular intervals. |  |

|  |  |
| --- | --- |
| The operating instructions contain information on the methods used to determine the energy efficiency, the assessment limits and information on possible causes of low efficiency and recommendations for action so that the user can remedy them either themselves or with the assistance of a specialist. Information on the data format and instructions on how to read the data is also provided to the user in the operating instructions. |  |

|  |  |
| --- | --- |
| Corresponding passages of the operating instructions and a picture of the energy efficiency display is attached. |  |

**3.4 Noise emissions**

a)

The maximum output of the device is:

|  |  |
| --- | --- |
|  | ≤6 kilowatts |
|  | >6 up to 20 kilowatts |
|  | >20 kilowatts |

|  |  |
| --- | --- |
| The A-weighted sound power level (LWA) measured is: |  |
| The maximum sound power level is: |  |
| The the sound power level in night-time mode is: |  |

|  |  |
| --- | --- |
| A document on determining the A-weighted sound power level in accordance with DIN EN 12102-1:2023-11 is attached. |  |

b)

|  |  |
| --- | --- |
| The installation instructions include clear instructions on how to select the installation site and how to carry out a low-noise installation both indoors and outdoors. |  |

|  |  |
| --- | --- |
| The corresponding passages from the installation instructions are attached. |  |

**3.5 Measures to guarantee the efficient and stable operation of the heat pump over many years**

|  |  |
| --- | --- |
| a) The provision of spare parts (equivalent parts) and software updates (functionality) for at least 15 years after the devices are launched on the market is guaranteed. |  |

|  |  |
| --- | --- |
| b) The user manual contains clear instructions on which settings can positively or negatively influence the efficiency of the device and contains clear instructions on when it makes sense to use a reduced night-time mode. |  |

|  |  |
| --- | --- |
| The corresponding passages from the user manual are attached. |  |

**3.6 Services**

|  |  |
| --- | --- |
| The applicant themselves or a contractually affiliated service partner offers services that enable the environmentally friendly planning and reliable and energy efficient operation of the heat pumps. |  |

The following services are offered:

|  |  |
| --- | --- |
|  | The manufacturer offers tools and training for the professional planning, installation (including hydraulic balancing), maintenance and disposal of heat pumps by a specialist company. If the device is being commissioned by a specialist company, the manufacturer is able to test and, if necessary, adapt relevant parameters via remote access. |
|  | The manufacturer or a qualified specialist company offers various different maintenance contracts. They also include an inspection according to section 60a of the Buildings Energy Act after a full heating period, although at least two years after the device is commissioned. In addition, the inspection is repeated on a regular basis; this process can also be carried out by remote access. |
|  | Provision of maintenance services at standard customer service times. |

**3.7 Model series**

In case a model series is certified:

|  |  |
| --- | --- |
| There are test reports for at least 33% of the devices from a model series according to 3.2 und 3.4 available, the values are specified and all test reports are attached. |  |

|  |  |
| --- | --- |
| Documents which make it clear that the devices are part of a model series\* are attached. |  |

*\*a model series is considered to be a series of devices that use the same heat source and the same refrigerant circuit concept (design of the refrigerant circuit; design and type of device; performance profile of heat exchangers and compressors; control variables and control curves*

|  |  |
| --- | --- |
| **We hereby declare compliance with all applicable requirements for the heat pumps according to Section 3 of the basic award criteria.** |  |

**Annexes for the contract according to DE-UZ 230**

**To be submitted by ALL applicants:**

|  |  |
| --- | --- |
|  | **Annex 1** General declarations/ Evidence from the applicant **(template – this document)** |

3.2 Energy efficiency

|  |  |
| --- | --- |
|  | **test document** on determining the efficiency values of the heat pump in accordance to the **compensation method** of a testing institute accredited for **DIN EN 14511** according to **DIN EN ISO/IEC 17025:2018-03** |

3.3 Energy efficiency display

|  |  |
| --- | --- |
|  | Corresponding passages of the **operating instructions** |
|  | **picture** of the **energy efficiency display** |

3.4 Noise emissons

|  |  |
| --- | --- |
|  | **test document** on determining the A-weighted sound power level (LWA) in accordance with **DIN EN** **12102-1:2023-11** |
|  | corresponding passages from the **installation instructions** |

3.5 Measures to guarantee the efficient and stable operation of the heat pump over many years

|  |  |
| --- | --- |
|  | corresponding passages from the **user manual** |

**To be submitted depending on composition/ properties**

3.7 model series

|  |  |
| --- | --- |
|  | **Documents** which make it clear that the devices are **part of a model series** |
|  | If applicable, further **test documents** on determining the efficiency values of the heat pump in accordance to the **compensation method** of a testing institute accredited for **DIN EN 14511** according to **DIN EN ISO/IEC 17025:2018-03** |
|  | If applicable, further **test document** son determining the A-weighted sound power level (LWA) in accordance with **DIN EN** **12102-1:2023-11** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Place:** |  |  | **Ein Bild, das weiß, Design enthält.  KI-generierte Inhalte können fehlerhaft sein.** |
|  |  |  |
| **Date:** |  |  |

**Legally binding signature / corporate seal**