Content of Technical Documentation to provide to market surveillance authorities

Ventilation units for buildings
– with at least one impeller, one motor and a casing

This guide presents the content of the technical documentation that you have to provide if the market surveillance authorities ask for it. There is however other information requirements and requirements on web-information that you always need to fulfil according to the regulations.

### Technical documentation for ventilation unit

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<th>Demands</th>
<th>How to comply</th>
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<tr>
<td>Name and address of supplier</td>
<td>Company name and complete address</td>
</tr>
<tr>
<td>General description</td>
<td>Description of the model so that it is easily identified and distinguished from other models (model name and number, size etc.)</td>
</tr>
<tr>
<td>List of applied standards</td>
<td>Applied measurement standards (harmonised standards and/or other standards)</td>
</tr>
<tr>
<td>Identification and signature of the person empowered to bind the supplier</td>
<td>Name and signature of the person responsible for the product</td>
</tr>
<tr>
<td>Measured and calculated parameters</td>
<td>• Specific energy consumption (SEC) in kWh/(m²xa) for each applicable climate zone and specific energy consumption class (SEC class) of the model</td>
</tr>
<tr>
<td>Apply to both Ecodesign and Energy Labelling</td>
<td>• Typology declared, according to Article 2 of the Regulations: residential ventilation unit (RVU) or non-residential ventilation unit (NRVU), unidirectional ventilation unit (UVU)* or bidirectional ventilation unit (BVU)**</td>
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<tr>
<td>Measurements and calculations</td>
<td>• Sound power level ($L_{WA}$)</td>
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<td>Apply only to Energy Labelling</td>
<td>• Overall dimensions.</td>
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<td>Product information</td>
<td>• Technical parameters for measurement in accordance with Regulation Annex VIII.</td>
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<td>Apply to only Ecodesign</td>
<td>• Result of calculations in accordance with Regulation Annex VIII.</td>
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<tr>
<td>“Carry over” means the percentage of the exhaust air which is returned to the supply air for a regenerative heat exchanger according to the reference flow</td>
<td></td>
</tr>
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</table>

* Unidirectional ventilation unit (UVU) means a ventilation unit producing an air flow in one direction only, either from indoors to outdoors (exhaust), or from outdoors to indoors (supply), where mechanically produced air flow is balanced by natural air supply or exhaust.

** Bidirectional ventilation unit (BVU) means a ventilation unit which produces an air flow between indoors and outdoors and is equipped with both exhaust and supply fans.
## Technical documentation for ventilation unit

### Demands | How to comply
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• Mixing rate of non-ducted bidirectional ventilation units not intended to be equipped with one duct connection on either supply or extract side |  
• Position and description of visual filter warning for RVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit |  
• For unidirectional ventilation systems, instructions to install regulated supply/exhaust grilles in the facade for natural air supply/extraction |  
• Internet address for disassembly instructions for the manual disassembly of permanent magnet motors, and of electronics parts (printed wiring boards/printed circuit boards and displays >10 g or >10 cm²), batteries and larger plastic parts (>100 g) for the purpose of efficient materials recycling, except for models of which less than 5 units per year are produced |  
• The airflow sensitivity to pressure variations at +20Pa and -20 Pa |  
• The indoor/outdoor air tightness in m³/h |  

**For non-ducted units only**

- Optional

**Exception for models of which less than 5 units per year are produced**

### Model information

**Apply to only Ecodesign**

- Models where the information in the technical documentation is obtained by calculation on the basis of another ventilation unit or/and extrapolation from other ventilation units:
  - Details of such calculations/extrapolation
  - Details of tests undertaken by suppliers to verify the accuracy of the calculations.
  - A list of all other ventilation units where the information is obtained on the same basis
  - A list of equivalent ventilation unit models

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**This guide presents the contents of the Regulations and is addressed to manufacturers, importers and others interested. The guide is not a substitution for the Regulations, and in any case of doubt, the Regulations are applicable. This guide is not legally binding as a binding interpretation can only be made by the EU court.**

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**Nordic Council of Ministers**

Store Strandstræde 18
DK-1255 Copenhagen K
Phone +45 33 96 02 00
Fax +45 33 96 02 02

www.norden.org