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Declaration of Product Information in Compliance with EU 1253/2014, Relating to NRVU, UVU Devices without filters

In the case of non-residential ventilation units (NRVU) that are also unidirectional ventilation units (UVU) without filters, the assessment of conformity with Regulation (EU) 1253/2014 and the provision of product information are made by Fläkt Woods in relation to the nominal flow rate.

According to the definition in Annex 1, 2 (2) the fan efficiency is determined at the nominal air flow and external pressure of the UVU. In turn, the nominal air flow is defined in 2 (6) to be the declared design flow rate. This is taken to be the intended working point of the UVU.

Products that are mass produced by Fläkt Woods for general purpose use can have a wide range of working points and the actual working point will not be known until the UVU is operating in its actual installation.

Fläkt Woods' product information is declared in relation to the nominal conditions that the design of the unit was based on. The fan efficiency is determined from measurements taken in accordance with ISO5801 of the complete UVU when it is operating at the declared nominal flow rate.

This approach is in accordance with the European Commission draft Frequently Asked Questions (FAQ) document of 13th November 2015. In the case of mass produced NRVUs question 21 provides manufacturers with the option to choose a specific working point and assess compliance with the standard approach.

Question 19 of the FAQ explains that the pressure losses due to the casing are to be taken into account. The best efficiency point of the fan inside the UVU is not to be used but instead the nominal conditions of the complete ventilation unit.