



Setting the Standards for Home Energy Efficiency

Interpretation: Dwelling Unit Mechanical Ventilation Fan Integrated Diagnostic Tools

Designation No: 380-2019-01

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Reference: This request for interpretation refers to the requirements presented in Standard:
ANSI/RESNET/ICC 380-2019

Page Number(s): 29

Section(s): 6.4.3

Table(s): n/a

Relating to: Required Elements of Integrated Diagnostic Tools

**Background
provided by
Requester:**

The Broan Fresh In product line is a series of inline supply fans used for whole-house ventilation. These products include integrated test ports, which can be used in conjunction with the manufacturer-specified procedure to measure the static pressure and determine the corresponding airflow of the system. As noted in the procedure, the error of the airflow measurement is less than 15% at the highest flow setting of the ventilation equipment.

The purpose of this interpretation is to confirm that the elements required by Section 6.4.3 for an Integrated Diagnostic Tool (specifically, a tool that is integrated into the ventilation equipment that permits assessment of airflow, a maximum error of 15% at the highest flow setting of the ventilation equipment, and manufacturer-provided instructions for determining airflow) are satisfied for this product line. In particular, an interpretation is being sought on whether the presence of the integrated test ports (i.e., integral holes designated for measuring static pressure to determine corresponding airflow) along with the manufacturer's procedure satisfies the requirement for a "tool that is integrated into the ventilation equipment".

(This statement should identify what is unclear or contradictory in the standard and why clarification is necessary.)

**Requester's
Interpretation:**

The features included in this product line satisfy the elements required by Section 6.4.3. In particular, the presence of integrated test ports coupled with a manufacturer-defined procedure for using those test ports to determine airflow satisfies the requirement for "a tool that is integrated into the ventilation equipment".

(State what you consider the clarification should be. Note: Interpretations are solely the opinion of the SDC. There is no public review or comment incorporated in their development. Interpretations should not create new requirements for national consensus standards.)

Question:

Is this Interpretation correct?

**SDC300
Answer:**

Yes



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Comments:

Section 6.4.3 defines an Integrated Diagnostic Tool as “a tool that is integrated into the ventilation equipment that permits assessment of airflow.” The presence of integrated test ports at the intake and exhaust side of a fan that enable a static pressure measurement coupled with manufacturer-provided instructions to determine the airflow from that static pressure measurement based on the fan’s configuration settings and (if present) installed filters meet the intent of Section 6.4.3 for an Integrated Diagnostic Tool.