**Interpretation:** Dwelling-Unit Mechanical Ventilation System fan watts

**Designation:** IR 301-2019-009

**Approved:** March 18, 2020 by RESNET SDC 300

**Effective Date:** April 18, 2020

**Reference:**

Standard ANSI/RESNET/ICC 301-2019\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Page Number(s): page 27\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Sections(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Table(s): Table 4.2.2(1), Footnote (m)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Relating to: Dwelling-Unit Mechanical Ventilation System fan watts \_\_

**Request from**:

 Name: Dean Gamble\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Affiliation: EPA\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Address: 1200 Pennsylvania Ave, NW, MC 6202A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 City: Washington\_\_\_\_\_\_ State: DC\_\_\_\_\_\_\_\_ Zip: 20460\_\_\_\_\_\_\_

 Email: gamble.dean@epa.gov\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Background Statement:** *Provided by person requesting the interpretation.*

Footnote (m) states that Dwelling-Unit Mechanical Ventilation System fan watts shall be the value observed in the Rated Home for the highest airflow setting, and that, where not available, fan watts shall be based on Table 4.2.2(1b) for the given system.

Certain types of Dwelling-Unit Mechanical Ventilation Systems consume energy beyond what is needed to operate the fan (e.g., dehumidifying ventilation systems, such as Honeywell DR90 (<https://customer.resideo.com/resources/techlit/TechLitDocuments/33-00000s/33-00329.pdf?_ga=2.221414232.1707141255.1578521654-1669760379.1578521654>).

Some confusion has arisen as to whether the total watts of the Dwelling-Unit Mechanical Ventilation System should be entered for the fan watt parameter, or just the subset of watts used to power the system’s fan.

**Proposed Interpretation:** *Provided by the person requesting the interpretation.*

Only the subset of watts used to power the system’s fan should be entered for the fan watt parameter referenced in Footnote (m). For example, if a dehumidifying ventilation system uses 400W overall, but the fan alone uses 100W, then 100W should be entered for this parameter.

Note, however, that Table 4.2.2(1b) should not be used to determine the default fan watt value for this system type. That is because such systems may use more powerful fans than a single-function ventilation fan to, for example, overcome higher static pressures due to added components or to deliver higher airflows. Instead, the Dwelling-Unit Mechanical Ventilation System fan watts shall be the value observed (e.g., per OEM specifications or through direct measurement) in the Rated Home for the highest airflow setting in ventilation-only mode

As an aside, if DRAFT PDS-01 BSR/RESNET/ICC 301-2019 Addendum B-20xx is adopted, then the overall energy usage of the Dehumidification System will be accounted for separately as a new Building Component.

**Question:** Is this proposed interpretation correct?

**SDC Response:**

Yes

**SDC Comments:**

Without comment.