<table>
<thead>
<tr>
<th>Mod #</th>
<th>Proponent</th>
<th>Chapter</th>
<th>Section</th>
<th>Summary</th>
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<tbody>
<tr>
<td>8184</td>
<td>Armin Hausar</td>
<td>4</td>
<td>403.2.12</td>
<td>Correct conversion error related to shaft power. Move the clause about fan system motor nameplate for better clarity. Increase the design options for load-matching variable-speed fan motors, accommodates new motor and drive technologies, and it simplifies the motor selection criteria for fans.</td>
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<th>Comment</th>
<th>No Affirmative</th>
<th>Recommendation</th>
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<tbody>
<tr>
<td>☑️ No comment is needed</td>
<td>☒️ Support comment. Comment sufficiently addresses the TAC's concern(s)</td>
<td>☐️ Do Not Support comment. Comment does not address the TAC's concern(s)</td>
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<tr>
<td>☑️ Support comment. Comment sufficiently addresses the TAC's concern(s)</td>
<td>☐️ Straw Poll</td>
<td>☐️ 8 Yes - 0 No</td>
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<th>Commission Action</th>
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<tr>
<td>☑️ N</td>
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**Summary of Modification**

Correct conversion error related to shaft power. Move the clause about fan system motor nameplate for better clarity. Increase the design options for load-matching variable-speed fan motors, accommodates new motor and drive technologies, and it simplifies the motor selection criteria for fans.

**Rationale**

This proposal increases the design options for load-matching variable-speed fan motors, accommodates new motor and drive technologies, and it simplifies the motor selection criteria for fans.

**Fiscal Impact Statement**

- **Impact to local entity relative to enforcement of code**
  - Positive impact. This proposal increases the design options for load-matching variable-speed fan motors, accommodates new motor and drive technologies, and it simplifies the motor selection criteria for fans.

- **Impact to building and property owners relative to cost of compliance with code**
  - Positive impact. This proposal increases the design options for load-matching variable-speed fan motors, accommodates new motor and drive technologies, and it simplifies the motor selection criteria for fans.

- **Impact to industry relative to the cost of compliance with code**
  - Positive impact. This proposal increases the design options for load-matching variable-speed fan motors, accommodates new motor and drive technologies, and it simplifies the motor selection criteria for fans.

- **Impact to small business relative to the cost of compliance with code**
  - Positive impact.

**Requirements**

- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  - This proposal corrects an IP / SI conversion error related to shaft power: 6 bhp equals 4476 W mechanical power.

- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  - This proposal moves the clause about fan system motor nameplate into the exceptions section for better clarity.

- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  - This proposal increases the design options for load-matching variable-speed fan motors, accommodates new motor and drive technologies, and it simplifies the motor selection criteria for fans.

- **Does not degrade the effectiveness of the code**
  - This proposal moves the clause about fan system motor nameplate into the exceptions section for better clarity.

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**2nd Comment Period**

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<tr>
<th>Proponent</th>
<th>Amanda Hickman</th>
<th>Submitted</th>
<th>Attachments</th>
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**Comment:**

This modification along with EN8175 should be approved as it recognizes recent updates made to ASHRAE 90.1. This will increase design options for load-matching variable-speed fan motors, accommodates new motor and drive technologies, and it simplifies the motor selection criteria for fans. At the Committee Hearing the ICC unanimously approved ASHRAE's identical proposal (CE136).
C403.2.12.2 Fan motor selection

For each fan, the *fan brake horsepower* shall be indicated on the construction documents and the selected motor shall be no larger than the first available motor size greater than the following:

1. For fans less than 6 bhp (4413 4476 W), 1.5 times the *fan brake horsepower*.

2. For fans 6 bhp (4413 4476 W) and larger, 1.3 times the *fan brake horsepower*.

**Exceptions:**

1. Fans equipped with electronic speed control devices to vary the fan airflow as a function of load.
2. Fans with *fan nameplate electrical input power* of less than 0.89 kW.
3. Systems complying with Section 403.8.1 *fan system motor nameplate hp* (Option 1).

**Exceptions:**
4. Fans with motor *nameplate horsepower* less than 1 hp (746 W) are exempt from this section.
Dear Mo Madani,

thank you for the alert.
I did "get" the original language from the ICC website:

I therefore cannot understand the concern that the original text does not match. Can you please help me?
Sorry, I also do not know the meaning of the acronym BBC in this context.

Best regards

Armin Hauer
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Regulatory and Government Affairs

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From: Madani, Mo [mailto:Mo.Madani@myfloridacliance.com]
Sent: Thursday, December 27, 2018 19:50
To: Armin Hauer
Subject: mod 8184

Mod 8184 – This modification has a “Need for Information.”
Please note – deadline for fixing the mod is ASAP but no later than 12/28/2018

Thanks