

Tracking Chart – Energy TAC

Mod #	Proponent	Chapter	Section	Summary	No Affirmative	Recommendation											
8184	Armin Hauer	4	403.2.12.2	<p>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.</p>		<p>Commission Action</p> <input type="checkbox"/> AS <input type="checkbox"/> AM <input type="checkbox"/> I <input type="checkbox"/> W <input type="checkbox"/> NAR											
<p>Comment</p> <table border="1"> <tr> <td><input type="checkbox"/> 1. Support comment. Comment sufficiently addresses the TAC's concern(s).</td> <td></td> <td><input type="checkbox"/> 2. Do Not Support comment. Comment does not address the TAC's concern(s).</td> <td></td> <td rowspan="2">8 Yes – 0 No</td> <td colspan="2" rowspan="2"></td> </tr> <tr> <td><input checked="" type="checkbox"/> 3. No comment is needed.</td> <td></td> <td><input type="checkbox"/> 4. Straw Poll.</td> <td></td> </tr> </table>							<input type="checkbox"/> 1. Support comment. Comment sufficiently addresses the TAC's concern(s).		<input type="checkbox"/> 2. Do Not Support comment. Comment does not address the TAC's concern(s).		8 Yes – 0 No			<input checked="" type="checkbox"/> 3. No comment is needed.		<input type="checkbox"/> 4. Straw Poll.	
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Date Submitted 12/14/2018	Section 403.2.12.2	Proponent Armin Hauer
Chapter 4	Affects HVHZ No	Attachments Yes
TAC Recommendation No Affirmative Recommendation		
Commission Action Pending Review		

Comments

General Comments Yes	Alternate Language No
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Related Modifications

C202 Definitions

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.

2nd Comment Period

Proponent Amanda Hickman	Submitted 5/23/2019	Attachments No
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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 an identical proposal (CE136).

EN8184-G1

C403.2.12.2 Fan mMotor selection ~~nameplate horsepower~~

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.~~

From: Armin Hauer
To: ["Madani, Mo"](#)
Subject: RE: mod 8184
Date: Friday, December 28, 2018 5:00:00 PM

Dear Mo Madani,

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

2017 Florida Building Code - Energy Conservation, Sixth Edition

(First Printing: Jul 2017)

CHAPTER 4 [CE] COMMERCIAL ENERGY EFFICIENCY

C403.2.12.2 Motor nameplate horsepower.

For each fan, the fan brake horsepower shall be indicated on the construction documents and the selected motor shall be not larger than the first available motor size greater than the following:

1. For fans less than 6 bhp (4413 W), 1.5 times the fan brake horsepower.
2. For fans 6 bhp (4413 W) and larger, 1.3 times the fan brake horsepower.
3. Systems complying with Section C403.2.12.1 *fan system motor nameplate hp* (Option 1).

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.



Proposed Code Modifications

USER: Armin Hauer

[Proposed Code Modifications Menu](#) > [Manage Proposed Code Modification](#) > **Modification Request History**

Modification # 8184
Modification Status Need More Information

Date Requested	12/20/2018
More Information Requested	Original text of the proposed mod does not match that of 2017 BBC, EC. Please note - deadline for fixing the proposed mod is ASAP but no later than 12/28/2018
Requested By	Mo Madani
Date Responded	

Best regards

Armin Hauer
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 Regulatory and Government Affairs

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From: Madani, Mo [mailto:Mo.Madani@myfloridalicense.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