

# Safety Notice

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The **ENERGY**  
**CONSERVATORY**

DIAGNOSTIC TOOLS TO MEASURE BUILDING PERFORMANCE

April 21, 2008

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## Safety Recall for Fan Cooled Blower Door Speed Controllers

**Recalled Product:** Fan Cooled Blower Door Speed Controllers sold between March 2007 and January 2008.

**Hazard (Electrical Shock):** The Energy Conservatory (TEC) has recently become aware that fan cooled Blower Door speed controllers sold between March 2007 and January 2008 have a problem that may pose an electrical shock hazard to equipment operators. Equipment operators should stop using the recalled Blower Door speed controller immediately, unless otherwise notified. Instructions for identification and remediation of the recalled speed controllers are listed below.

**Incidents/Injuries:** No injuries have been reported. Five instances of cooling fan failure have been reported.

**Description:** TEC redesigned the Blower Door fan speed controller to incorporate a miniature cooling fan inside the controller enclosure. In some recalled units, the circuit board which controls the internal cooling fan may be in contact with the controller's metal enclosure. Under certain circumstances (described below), it is possible for the cooling fan circuit board to short circuit. If this happens, the cooling fan may cease operation, although the controller itself may still function. If the cooling fan circuit board short circuits, it is also possible for anyone holding the controller in their hand to receive an electrical shock.

The cooling fan circuit board failure could occur under the following circumstances:

- The controller is plugged into an **ungrounded** electrical outlet.
- The controller is plugged into an electrical outlet that is **miswired for polarity**.
- The controller is plugged into an electrical outlet that is both **ungrounded** and is **miswired for polarity**.

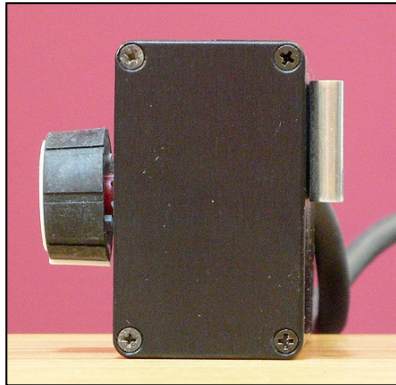
**Note:** The Minneapolis Blower Door fan and speed controller are grounded electrical devices that should always be plugged into a properly wired (i.e. correct electrical polarity) and grounded electrical outlet. Proper grounding and proper wiring polarity of electrical outlets can be checked by using an electrical outlet tester. These testers are available at any building supply store for less than \$20.

**Identifying Recalled Blower Door Speed Controllers:** Fan cooled Blower Door speed controllers sold between March 2007 and January 2008 are included in this recall. In order to determine if your controller is part of this recall, follow **Step 1** and **Step 2** below:

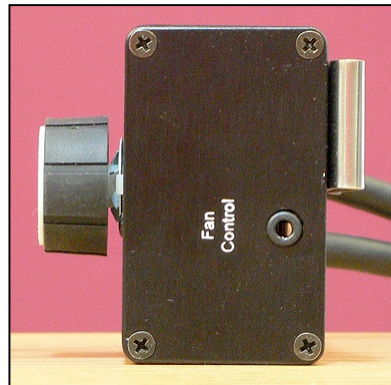
**Step 1: Is your Blower Door speed controller a fan cooled model?**

- Controllers without a cooling fan have endplates as shown in **Figure A** and **Figure B** below. If your controller endplate looks like **Figures A** or **B** below, **STOP** – your controller **is not** included in this safety recall and can continue to be used.

**Figure A (no cooling fan)  
Not Included in Recall**

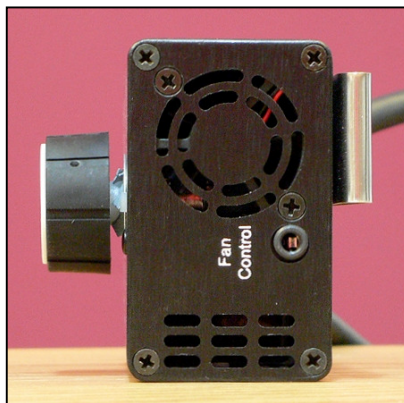


**Figure B (no cooling fan)  
Not Included in Recall**



- All fan cooled models have an endplate with cooling holes as shown in **Figure C** below. If your controller endplate looks like **Figure C**, proceed to Step 2 below.

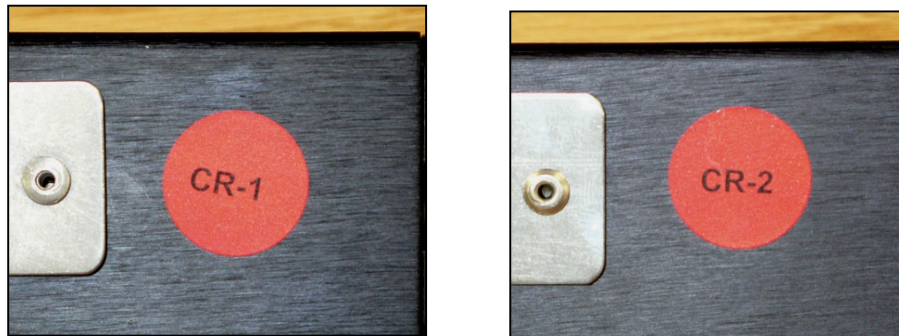
**Figure C (controller with cooling fan)  
Proceed to Step 2 Below**



**Step 2: Determine if your fan cooled controller is included in this recall.**

- Fan cooled controllers that are labeled on the back side of the controller enclosure with the text **CR-1** or **CR-2** **do not** have the described electrical problem. If your controller has the **CR-1** or **CR-2** labeling on the back side of the controller enclosure, **STOP** - your controller **is not** included in this safety recall and can continue to be used.

**Figure D: CR-1 and CR-2 Labeling on Back of Controller Enclosure  
Not Included in Recall**



- Fan cooled controllers without the **CR-1** or **CR-2** labeling on the back side of the enclosure **are** included in this recall. Proceed to **Remedy** section below.

**Remedy:** Equipment operators should stop using the recalled Blower Door speed controller immediately, unless otherwise notified. Owners of recalled controllers should follow either **Step 3** or **Step 4** below.

**Step 3 :** TEC will provide a free retrofit kit that can be used by the equipment owner to repair the controller. The retrofit kit consists of a new back cover for the controller enclosure. Installation of the new back cover can be easily performed at your location. The old cover is removed by taking out 4 screws. The new cover is then placed in position and the 4 screws reattached. To receive your free retrofit kit, call us at 612-827-1117. You can also send us an email requesting the “Fan Cooled Controller Retrofit Kit”. Make sure that you include your complete company name, address, telephone number and contact person. Send the email to [info@energyconservatory.com](mailto:info@energyconservatory.com).

**Step 4:** In lieu of receiving and installing a retrofit kit, send the recalled controller(s) back to TEC (at the address below) for repair. TEC will install a retrofit kit and ship the controller back to the equipment owner at no charge. Be sure to include a letter with the returned controller including your complete company name, address, telephone number and contact person.

Send recalled controllers to:

The Energy Conservatory  
2801 21<sup>st</sup> Ave. S., Suite 160  
Minneapolis, MN 55407  
Attention: Fan Cooled Controller Retrofit Kit