

USING FLOW RINGS C, D AND E

- **Using Ring C**

Ring C is used with the Model 3 Minneapolis Blower Door system to measure fan flows between 300 and 85 cfm, and between 260 and 50 cfm with the Model 4 system. Flows in this range are typically measured in very tightly constructed new houses, or in airtight rooms (e.g. computer rooms).

- » Installation

- To install Ring C, place Ring C in the center of Ring B and rotate the 6 fastener clips attached to Ring B so that they rotate over the edge of Ring C and secure it in place.

- » Calibration Parameters for Ring C

- Model 3 (110V): Flow (cfm) = 21.37 x (Fan Pressure in Pa)⁵¹³²

A flow conversion table for Ring C can be found in the [Blower Door Manual](#).

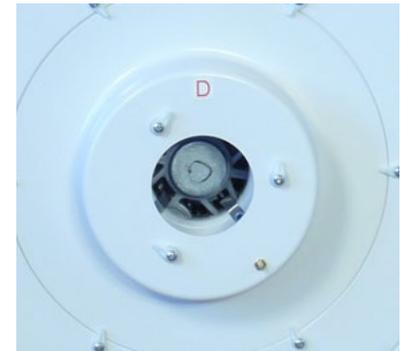


- **Using Rings D and E**

Rings D and E have been designed to measure very low air flows with Model 3 and 4 Minneapolis Blower Door systems. Ring D has a flow range between 125 and 30 cfm. Ring E has a flow range between 50 and 11 cfm.

- » Installation

- Ring D attaches directly to the center of Ring B and is secured by the 6 rotating fastener clips found on Ring B. Install Ring D so that the letter "D" is in the "12 o'clock" position.
- Ring E attaches directly to the center of Ring D and is secured by the 3 rotating fastener clips found on Ring D. Install Ring E so that the letter "E" is in the "12 o'clock" position.

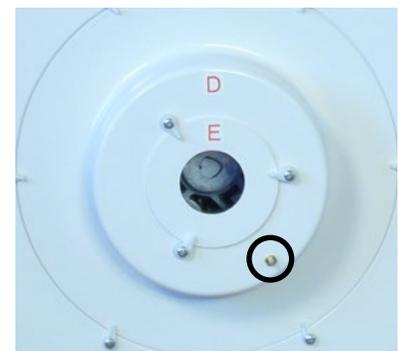


- **Measuring Fan Flow with Rings D and E**

When using either Rings D or E, it is necessary to measure fan pressure by using the pressure tap mounted directly on Ring D, rather than the pressure tap located on the top of the fan.

- » Calibration Parameters for Rings D and E

- Ring D: Model 3 (110V): Flow (CFM) = 7.216 x (Fan Pressure in Pa)⁴⁹⁴²
- Ring E: Model 3 (110V): Flow (CFM) = 2.726 x (Fan Pressure in Pa)⁵²⁶⁷



A flow conversion table for Rings D and E can be found in the [Blower Door Manual](#).

- If you are using Rings C, D or E with an older set of Flow Rings that have three fastening washers instead of the six rotating fastener clips, you should temporarily tape the following locations to prevent air leakage between the Rings.
 - » the outer edge between Ring A and the fan housing
 - » the edge (joint) between Ring B and Ring A
 - » the edge (joint) between Ring C and Ring B
 - » the edge (joint) between Ring D and Ring B