Blower Door Field Guide

Green Jobs Academy

TEC Minneapolis Blower Door Test with DG-1000 Manometer

BLOWER DOOR FIELD GUIDE

1-Point Depressurization Model 3 Fan, 115V

1. TURN OFF Vented Combustion Appliances

Fireplaces & Woodstoves: Cold, no coals, close dampers, cover ashes with wet paper.

TURN OFF all Vented Combustion Appliances

Water Heater Turn to **PILOT** or **OFF** *(car keys)*

All Boilers Turn off at unit or elec panel !!

>Make sure water heater won't start!

Furnace Can use T-stat, check air filter

Clothes Dryer Turn off: check Filter & Outlet

Exhaust Fans Turn off all vented exhaust fans

2. CLOSE up the HOUSE as in Winter

Exterior Windows and Doors

Garage, Basement, Crawl space

Attic Accesses, including kneewall hatches

3. OPEN ALL INTERIOR DOORS

Is there a Drop Ceiling? Remove panel & inspect.

Consider doing a Pressurization test.

4. SET UP FOR ATTIC ZONE PRESSURE TESTS

Attic Bypass: basement door closed, then open.

> Want Attic Zone Pressure to hold, not decrease.

5. SETUP Blower Door Frame and Panel

Exterior Door of Conditioned Space

Green Hose to Outside, 5' to the Side

Red Hose to small brass port at top of fan

Install Fan, Close all Rings to prepare for Baseline

Power Supply to Fan (check power)

6. DG-1000 MANOMETER - use Tubing Assistant

7. SET BASELINE - min 30 sec

8. CONFIG: CHOOSE FAN RING (CFM50)

Open: 6,100 - 2,435	Switch to A-Ring at 2,500
Ring A: 2,800 - 915	Switch to B-Ring @ 1,000
Ring B: 1,100 - 300	Switch to C-Ring @ 315
Ring C: 330 - 85	

9. RUN FAN 3-5 min for pressures to equalize

> Watch fireplace and wood stove for ashes

10. CHANGE a RING? First change **CONFIG**, then ring.

If "LO" **Add Ring** (house@50pa, fan slow < 25pa)

If CR50 **Remove Ring** (fan at full speed)
(consider another fan?)

11. Use TIME AVG when windy, or to photograph

12. NOTE how the house is setup for each test.

(e.g. Basement or CAZ doors open or closed)

Blower Door Field Guide for DG-700 Manometer

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DG-700 MANOMETER SETUP

1-Point Depressurization with Manometer INSIDE

Green Hose: Left/REF to Outside

Red Hose: Right/Input to Fan

Press: ON, Mode, Mode (PR/FL@50)

Press: Baseine, Start (wait 30 sec), Enter. see "ADJ"

Turn Rheostat to 50 PA (House WRT Outside)

Using the CRUISE feature

Rheostat at Lowest Setting

Press: Begin Cruise. Shows the target @50PA target

Press: Start Fan. Automatically increases to 50PA

Press: Stop Fan to pause. Press again to cancel.

Depressurization Test with Manometer OUTSIDE

Green Hose: Left/Input to Indoors

Red Hose: Right/Input to Fan

Clear Hose: Right/Ref to Interior

PRESSURIZATION Test: Manometer INSIDE

Turn Fan around to blow air IN

Green Hose: Left/REF to Outside

Red Hose: Right/Input to Fan

Clear Hose: Right/Ref to Outside