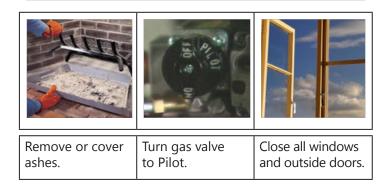
# DM32 Blower Door QuickGuide



# **Step 1: Prepare the building**

Refer to the Gauge QuickGuide and become completely familiar with its operation before performing a test.

- □ Fireplaces and stoves must be cold with doors closed (cover ashes).
- □ Close and lock outside doors and windows so they don't open during the test.
- □ Open all interior doors leading to conditioned spaces.
- □ Shut off HVAC, combustion appliances, exhaust fans, dryers, A/C and furnaces. Ensure they will not come on
  □ Turn gas hot water to Pilot.



# Step 2: Install the system

- Set up the Door Panel. Refer to your "Door Panel QuickGuide"
- □ Connect the short red tube to the red port on the gauge.
- Connect the yellow tube between yellow ports marked "Ref B" on fan and gauge. If the fan has a green port ("Input B"), connect the green tube.
- Connect the Ethernet style Speed Control Cable to the fan and gauge.
- Pass the red tube through the Door Panel and toss the end at least 5 feet away from the fan's airstream.

Water in the tube will result in erroneous readings.



Install the fan blowing outdoors. Cover the fan.
Connect power cord between fan and a wall outlet.
Power light must be on.











□ Place gauge near fan, or attach gauge to Door Panel.

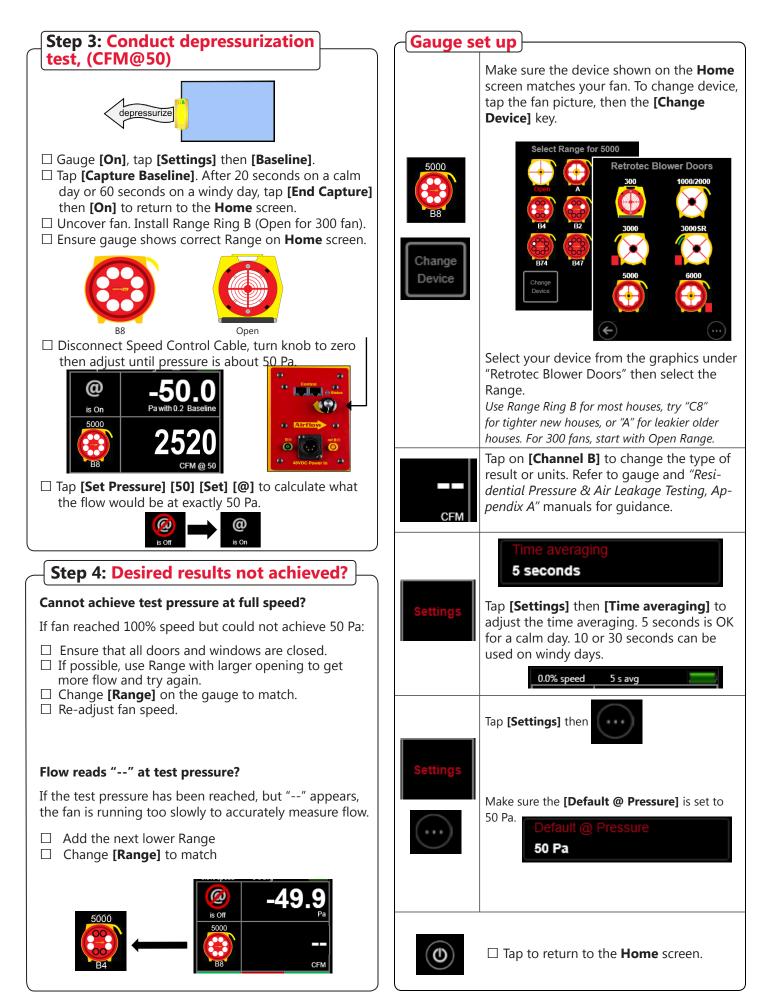






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#### **Different Results**

Tap the **[Channel B]** key to view a different Result, or tap **[Result to be displayed]** on the **[Settings]** menu.

Flow: C	FM	Required by many states. Also available in metric units.					
	ea: CFM/sq ft nalized by area	Normalized leakage area is used in many standards. All common units are available.					
ACH: /h Air chang	es per hour	Air Changes per hour can be shown directly on the gauge. Enter volume as shown below.					
EfLA4/area Normalized E	: <b>sq in/sq ft</b> fLA at 4 Pa	Specialized units such as Effective Leakage Area are also available.					
Area 1,200 sq ft	When a Result is chosen that requires an area or volume, <b>[Area]</b> or <b>[Volume]</b> will be shown on the <b>Home</b> screen.						
	Tap <b>[Area]</b> or <b>[Volume]</b> to change . The						

Volume 22,000 cu ft Tap **[Area]** or **[Volume]** to change . The area and volume can also be changed from the **[Settings]** menu.

### Show leakage area Result

Equivalent Leakage Area (EqLA) describes the leakage area in terms of one large hole in a flat surface.

Tap the **[Channel B]** key, then "EqLA: sq in"

, and select

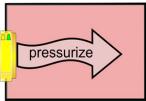
**[Channel A]** shows the building pressure and **[Channel B]** "EqLA" shows the combined size of all holes in the building.



Leakage area is not a required result, but is a nice way to visualize the size of the hole in the ducts.

## **Pressurization test**

Turn the fan around to blow air into the house.



Tube configuration is the same as the depressurization test.

# Adjust fan with gauge

Connect Speed Control Cable to the fan. Solid green Status light indicates gauge is connected.

Tap **[Set Pressure] [50] [Set]** to get gauge to control to a pressure of 50 Pa.



**CAUTION**: Doors opening during the test will cause fan speed to increase which will create a pressure pulse when that door is re-closed, disturbing dust, soot, and particulates, causing damage. **STOP** the Fan if a door opens.

#### Tap [Set Speed] [50] [Set] to set speed to 50%.



When **[Set Speed]** or **[Set Pressure]** is used, the Jog keys become active on the **Home** screen. Use the **[JogUp] [JogDown]** arrow keys to increase or decrease the target by 5 Pa or 1%.



Tap [Stop] to turn the fan off.

# Adjust fan speed remotely

Use optional WiFi to control the fan remotely. Refer to "GaugeRemote QuickGuide".



#### Control fan speed with software

Speed control is handled automatically with FanTestic software, for complete automation.

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#### Field check gauge weekly

Check for gauge accuracy, blocked, leaking, or pinched tubes weekly, and anytime results are in question.



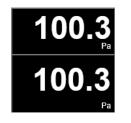
Check the gauge with the tubes in the Umbilical.

- □ Set **[Time Average]** to 5 seconds in **[Settings]**.
- □ Tap **[Channel B]** and select"Pressure: Pa".
- □ Connect the red tube between the red and yellow ports.

If readings on Channel A and Channel B are within 2% and don't drop noticeably in 5 seconds, the gauge is functioning correctly.

□ Remove red tubes and repeat with the yellow tube between the blue and green ports.

Check gauge and tubes regularly to eliminate the most common source of errors.



### Field check system monthly

- □ Perform a Blower Door test on a room and record the EqLA at 50 Pa.
- $\Box$  Install cardboard in upper part of doorway with a 20 x 20 inch hole cut in it.
- Perform a second Blower Door test on the building, record the EqLA at 50 Pa.
- $\Box$  Subtract the first result from the second result and the value should be 400 sq. in. (+/-10%).



Alternatively, use a Retrotec Calibration Verifier.

