QuickGuide

Blower Door



Step 1: Prepare the building

- \Box Close outside doors and windows.
- \Box Open all interior doors leading to conditioned spaces.
- □ Turn gas, hot water, to Pilot.
- □ Fireplaces and stoves must be cold with doors closed (cover ashes).
- □ Shut off HVAC, combustion appliances, exhaust fans, dryers, A/C and furnaces.

See: *Manual-Residential Pressure & Air Leakage Testing* for additional information.



Step 2: Install the system

- □ Set up the door panel.
- See: DoorPanel-Cloth or DoorPanel-Modular QuickGuide
- □ Connect the yellow tube between yellow ports marked "Ref B" on fan and DM-2. If the fan has a green port ("Input B"), connect the green tube.
- □ Connect the Speed Control Cable from fan to gauge. Do not connect to the Internet.
- □ Pass long red tube through the Door Panel and toss the end at least 5 feet away from the fan's airstream.



Note: Water in the tube will result in erroneous readings.

□ Install the fan blowing outdoors. Cover fan.□ Connect the fan power plug to a wall outlet.



Model 1000 Device="Retrotec 1000"

Model Q46, Q56 Device= "Retrotec 2000"

Model Q4E, Q5E, QMG Device= "Retrotec 3000SR"







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



Sales: (855)738-7683

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Different Results	Pressurization test
Press [Mode] to access the available results, or use [Setup] to access even more results. Some popular options are shown below:	Turn the fan around to blow air into the house.
PrA Flow49.6 1125Pa cfm 050.0PaCFM 50 is required in the USA. The flow displayed is what it would be at exactly 50 Pa, eliminating the need for an exact test pressure.	Note: Tubing configuration is the same for both directions.
PrA49.6 Pa BNormalized leakage area (m³/hr/m²), required in Europe.Prov Flow (Area6.2 (m³/h/m²), required (m³/h/m²), required in Europe.	Adjust fan speed with gauge Connect Speed Control Cable to fan. Solid green Status light indicates DM-2 is connected.
PrA49.6 Pa /hAir Changes shown directly on the gauge.Air Chg2.12 (250.0Pa)volume : 1000.0 ft³Retrotec 1000	Press [Set Pressure] [25] [Enter] to get gauge to control to a pressure of 25 Pa. Set Pressure 7 Pressure = 25 Pa
PrA49.6Pa in²/in² @50.0PaDisplay custom units. e.g. units specified by WA state.BRetrotec 1000	Any test pressure can be entered. High test pressures over 60 Pa are more likely to disturb building contents and cause damage. Press [Set Speed] [50] [Enter] to set speed to 50%.
Enter Volume Area Enter] key.	Set Speed 8Speed = B50.0 % Retrotec 1000The fan will accept any Set Speed from 1 to 100%.
Results in leakage area Press [Mode] until "EqLA" appears. The DM-2 displays the pressure and the selected leakage area. PrA 49.6 Pa	When speed or pressure is set, press [Jog/Hold] until "Jog" appears, then [▲] [♥] to adjust up or down. Click once to change by 1%, hold to increase by 5%. Jog/ Hold 9 110010.6512t 49.6 F Press [Exit] to turn the fan off.
EqLA 135.0 @10.0Pa	Adjust fan speed remotely
Note: Equivalent Leakage Area (EqLA) describes the leakage area in terms of one large hole in a flat surface. Unlike flow, EqLA is fairly consistent at different test pressures, but is usually referenced to 10Pa. Note: Effective Leakage Area (EfLA) is a different meas- ure of leakage area, and is never used for ducts. It is usually calculated at 4Pa.	Use optional remote speed control from up to 300 feet away from fan.

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Fan speed control with software

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



Field check gauge weekly

Push tube onto red and yellow ports which will produce the same pressure on each channel.

Press **[Mode]** until "Pa" is displayed on both channels.

Both channels should have same reading within 1%.

AutoZero will cause pressures to drop and will allow comparisons at lower pressures.



Perform field check weekly or whenever readings seem questionable.



Field system check monthly

- □ Perform a Blower Door test on the building 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 n 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 Calibration Plate in the optional second Fan Panel ,or, use the optional Flex Duct with a 400 sq. in. hole in a plate on the end.

