

Air Leakage Test Systems Selector

Choose the perfect system from our wide range



DU200: Total duct testing solution.



Q4E: Fast, automatic system for large houses and small commercial buildings.

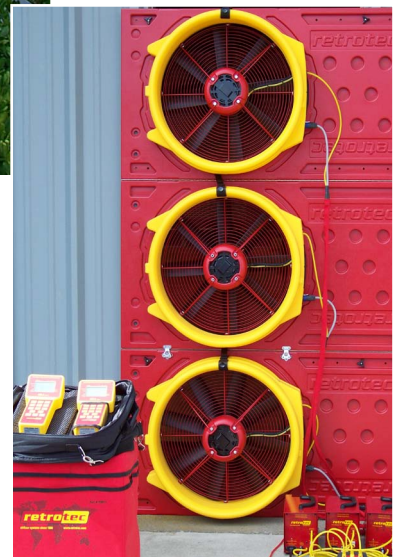


Q5E: Modular, hard panel system for fast, professional testing



1000: Residential test system with 10 year warranty.

QMG: Folding hard panel with 3 high output fans for testing large buildings.



retrotec

Digital Gauge

DM-2 mkII Digital Gauge

The DM-2 mkII is more than just a digital gauge. It is the advanced control center at the heart of every Retrotec system. It has every imaginable feature needed to make testing faster, easier, and more accurate, without the need for a computer yet can be set up to remove all unnecessary complexities.



Fan Control

Automatic speed control

Set to any percent speed and Jog up or down in 1% or 5% increments.



Cruise Control

Set any pressure, and then Jog up or down in 5 Pa increments for fast multipoint tests.



... or super fast!

...now use the @ key to immediately extrapolate to the exact pressure selected by the "Jog" key, in order to acquire a set of test points as fast as they can be written down.



Laptop control

Advanced USB connection to any laptop allows for the use of a wide variety of software.

Control from a distance

The standard gauge-to-fan cable is 20', but 70' and 250' extensions allow control from any distance.

Fan Performance

200 duct & tight house fan

This 10 inch (30 cm) fan features an accurate flow nozzle that is unaffected by back pressure, or being attached to a Flex Duct. Test ducts, tight houses, and enclosures in either direction without changing the set up.



2350 residential fan

This 24 inch (60 cm) fan is ideally suited for testing most houses and some small commercial and industrial buildings.



3300SR large building fan

This Retrotec exclusive fan is super powerful and super stable. Its custom industrial strength motor is designed for continuous operation and will never over-heat.

The 3300 SR fans are "Self Referenced", making them the ideal building science tool since they cannot be hooked up incorrectly and always reference the flow properly even when attaching a Flex Duct to create the world's largest duct tester, or when performing floor-at-a-time high rise building tests.



Door Panels

Cloth Panel for economy

Our Standard Aluminum Frame with Cloth Panel will fit any residential doorway. Ergonomic knobs, sturdy cam levers, and numbered frame pieces make this frame easy to use.



Modular Panel for flexibility

Retrotec's unique hard panels fit the widest variety of doorways. They are lightweight, quick and easy to set up, and provide an impressive professional appearance.



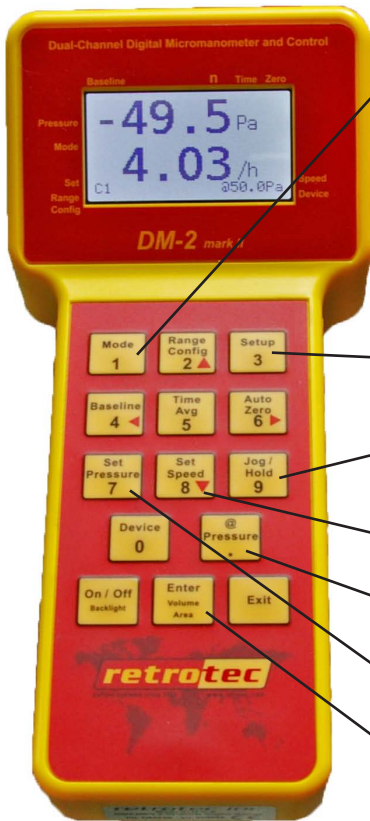
Three-Fan Panel for large buildings

Maximize airflow through one doorway with a folding 3-fan panel that can be carried under the arm. Set up in minutes. Use the included blanking panels if only one or two fans are needed.



Digital Gauge

The Retrotec DM-2 displays every possible result with manual and fully automatic (or computerized) fan speed control.



[Mode] Units Available

Pressure: Pascals, inches, water column, psf	PrB	53.5 Pa
Flow: cfm, L/s, m³/s, m³/h	Flow	253.5 cfm
Flow per area: CFM/ft², L/s/m², CFM/100ft², m³/h/m², cfm/1000ft²	Flow/ Area	0.25 cfm/ft² @75.0Pa
Leakage Area: EqLA (Canadian) and/or EFLA (US): cm², in², ft²	EqLA	12.8 ft² @10.0Pa
EqLA and EFLA per area: in²/100ft², cm²/m², in²/in²	EqLA/ Area	1.15 in²/100ft² @10.0Pa
Air changes per hour according to volume entered: /h	Air Chg	2.7 /h
Hole Flow: CFM, L/s, m³/s, m³/h	Hole Flow	103.7 cfm

[Setup]

Add/remove modes and devices.

[Jog/Hold]

Adjust up/down in 5 Pa increments for multi-point tests.

[Set Speed]

Set to any % speed.

[@ Pressure]

Immediate results estimated at any test pressure.

[Set Pressure]

Control to any pressure.

[Volume Area]

For Air Changes and ELA per area.

DM-2 Digital Gauge Dimensions

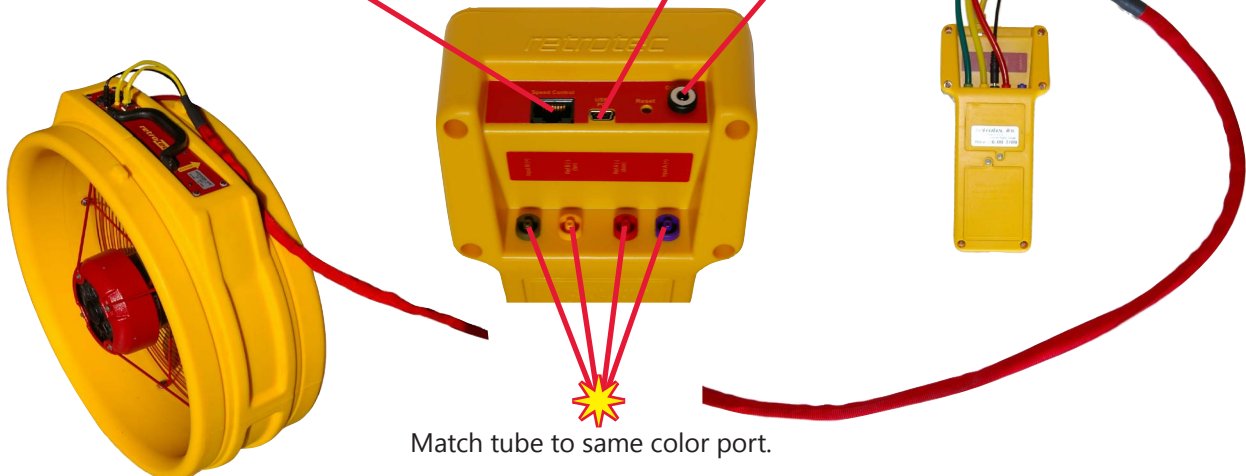
Weight	14oz/397g
Size	8.75 x 4.25 x 3 in 22.2 x 10.8 x 7.6 cm
Power	AC adapter 4 NiMH AA rechargeable batteries
Accuracy	± 1 %



Connect to FanTastic PC software via USB for data acquisition, automatic control, or data monitoring.

Use an unlimited length of ethernet style Speed Control Cable to control fan.

Recharge batteries.

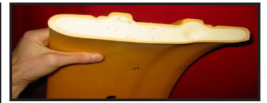


Match tube to same color port.

Fan Control

3 sizes of motor in 2 sizes of housing

Choose a 0.25 hp motor in a 10 inch (30 m) housing, or a 0.75 hp or 2 hp motor in a 25 inch (75 cm) fan shell housing.



Tough construction

Space age construction uses a hollow fan shell filled with structural foam for superior strength and durability.

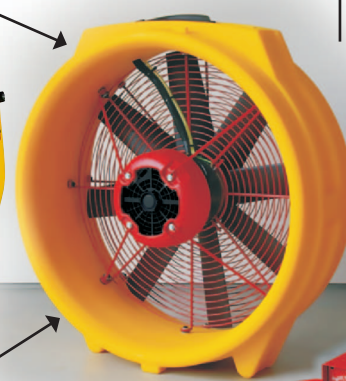
Standard fan



Low flow fan



High Output fan and Drive



8-point mount

Super stable mounting maintains fan alignment under the most stressful conditions. Attachment points are molded in permanently, so there is nothing that can come loose.

Standard
Model 2350



High Output
Model 3300SR



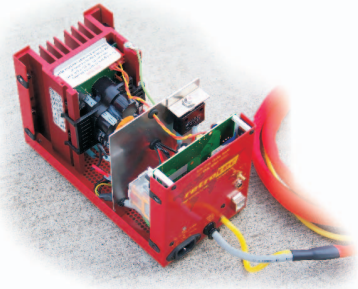
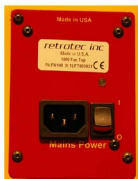
Advanced control

Retrotec ups the ante with its regulated speed control to eliminate the speed fluctuations experienced with typical manual controls.

Super advanced control

The unique variable speed drive provides advanced speed control with Retrotec's 2 hp High Output speed fan. It generates faster speed control with less than 0.1% speed variation. Use a 100 to 280V, 50 to 60 Hz, wall outlet (non GFCI).

Low Flow Model 200



Model 200 fan <i>Low-flow</i>	<p>Dimensions: 13" x 11" x 13.25" (33 x 27.9 x 33.7 cm)</p> <p>Weight: 11.75 lb (5.3 kg)</p> <p>Power in: Available in 120 Volt or 240 Volt, 185 Watts</p> <p>Motor & fan blade: EBM Backward Curved Impeller</p>
Model 2350 fan <i>Standard</i>	<p>Dimensions: 26" x 25.5" x 9.5" (66 x 65 x 24 cm)</p> <p>Weight: 34 lb (15.4 kg)</p> <p>Power in: Available in 115V or 230V, 50 or 60 Hz, 1000 Watts</p> <p>Motor & fan blade: 3/4 hp, PSC motor w/ 8 blade fan</p>
Model 3300SR fan <i>High Output</i>	<p>Dimensions: 26" x 25.5" x 9.5" (66 x 65 x 24 cm)</p> <p>Weight: 37 lb (16.8 kg)</p> <p>Single Phase power in: Available in 120V, 15A or 240V 8A, 1ph</p> <p>Motor & fan blade: 2.0 hp, 3 phase w/ 8 blade fan</p>

Fan Performance

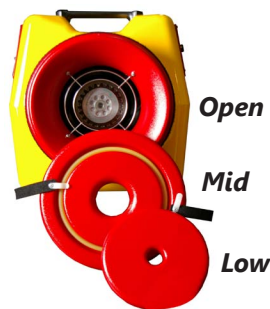
Maximum Fan Flow Rates

	Flow into:	CFM	L/s	m³/h
Model 200 fan <i>(reduce by 15% for 50Hz)</i> <i>Low Flow</i>	Free Air (no flex duct)	680	321	1155
	25 Pa	7 to 620	3.3 to 293	12 to 1054
Model 2350 fan <i>(reduce by 15% for 50Hz)</i> <i>Standard</i>	Free Air	6,300	2,973	10,704
	50 Pa	5 to 5,600	2 to 2,643	8 to 9,514
Model 3300SR fan <i>High Output</i>	Free Air	8,500	4,012	14,440
	50 Pa	5 to 8,300	2 to 3,917	8 to 14,100
	300 Pa	2,300	1,085	3,907

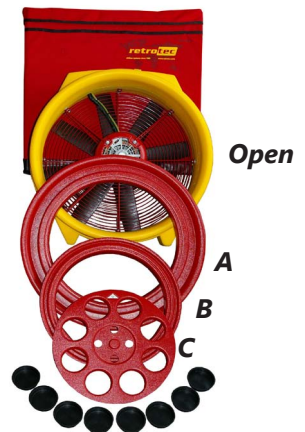
Range Rings allow one fan to test a wide range of enclosures, from super leaky to super tight. Standard and High Output fans include 11 flow ranges (*far right*) to provide accurate results over the widest range of enclosure volumes.

Test the tightest (7 CFM) or leakiest (620 CFM) residential ducts with the three Range Configurations included with the Low Flow Model 200 fan (*right*).

Set the Range Configuration on Retrotec's DM-2 digital gauge to match the installed Range Ring and get instant and accurate results in any desired units.



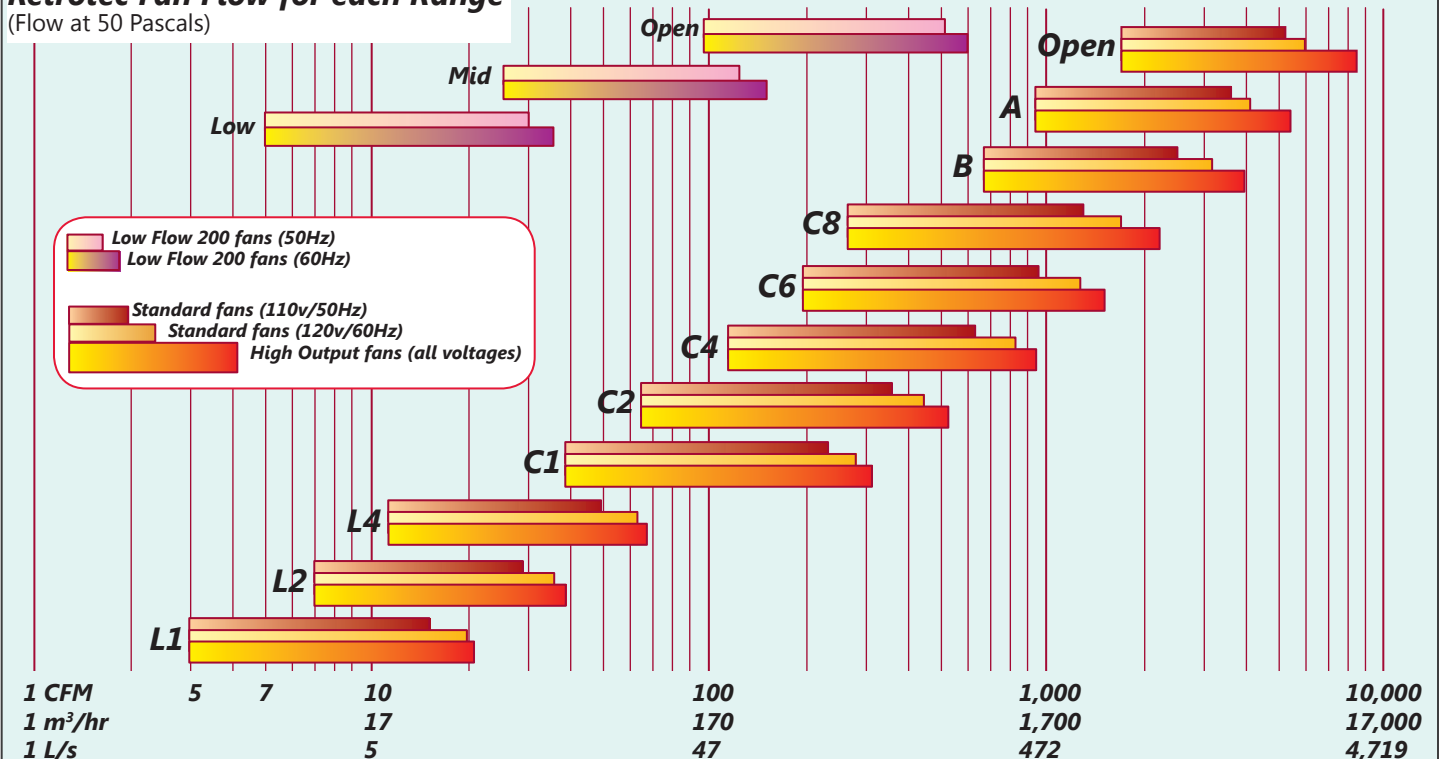
Low Flow fan Range Plates.



Standard Range Plates.

Retrotec Fan Flow for each Range

(Flow at 50 Pascals)



The wide span between the minimum/maximum flow on each Range Configuration, coupled with a huge number of ranges, enables faster tests over the widest range of buildings or enclosures.

Door Panels

Cloth Door Panel

Retrotec's least expensive choice for residential testing.

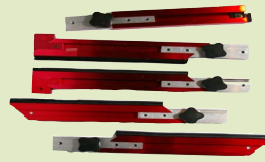
Options:

- Extension Kit enlarges the frame horizontally and/or vertically.
- High pressure cloth for 300 Pa rain penetration testing.
- Double hole fan cloth.
- Small hole fan cloth to mount 200 series fan for tight houses.

Dimensions

Door widths (min/max)	29.5 to 41.5 in (75 to 105.4 cm)	40 to 48 in (102 to 122 cm)
Door heights (max)	51.5 to 95 in (131 to 241 cm)	62 to 105 in (157 to 267 cm)
Frame thickness	1.75 in (5.3 cm)	
Frame case (included)	53 x 10 x 4 in (134 x 25 x 10 cm)	
Panel set in case	14.2 lb (6.4 kg)	
Shipping weight	20 lb (9 kg)	

with extension kit



X Panel

optional Small X Panel

X-Y Panel

Fan Panel



Modular Door Panel

For rapid set up and a professional appearance, choose the modular door panels. Three light-weight panels expand to fit the widest doorways.

Options:

- Small X Panel increases height to 97.5 inches (248 cm).

Dimensions

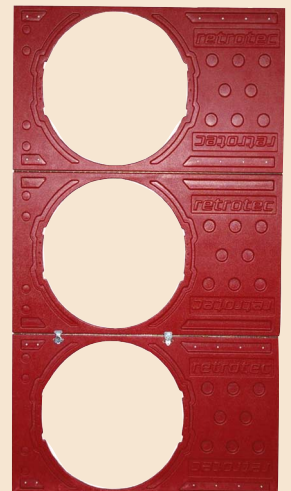
Door widths (min/max)	32 to 48.75 in (81 to 124 cm)
Door height (max)	76.5 to 87 in (194 to 221 cm)
Panel case (included)	31 x 30 x 7 in (79 x 76 x 18 cm)
Panel set in case	24 lb (11 kg)
Shipping weight	31 lb (14 kg)

Three-fan Folding Panel

Choose this panel system, exclusive to Retrotec, for testing large open warehouses or stores.

Dimensions

Door widths (max)	47 in (119 cm)
Door height	81 in (205 cm)
Panel case (included)	50 x 30.5 x 5 in (127 x 77.5 x 12.5 cm)
Panel set in case	26 lb (12 kg)
Shipping weight	31 lb (14 kg)



Blower Door Systems



1000

Advanced house testing system

The 1000 system performs fully automatic testing using a laptop. Alternatively, simply key in the desired test pressure and read Air Changes or leakage per unit area in real time directly from the gauge; a unique Retrotec feature.



Q4E

Larger buildings and faster testing

The Q4E system increases fan output from 0.75 hp to 2.0 hp. Test large houses and small commercial buildings with only *one* fan! Retrotec's exclusive fast, fully automatic control is so quick that it will track and nullify pressure fluctuations due to wind.



Q5E

Add faster set up and more flexibility

The Q5E Infiltrometer system uses the 2 hp fan and Retrotec's unique modular panel that looks professional, sets up quickly and allows for numerous testing configurations that the Aluminum Frame cannot match. Ideal for testing high-rise buildings one floor at a time or for multi-family and commercial buildings.



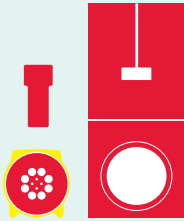
QMG

Largest buildings

The QMG system delivers a whopping 25,000 CFM to test large open warehouses or stores. This purpose built system has been used to test more large commercial buildings than all other systems combined. Use individual fans separately for smaller buildings.

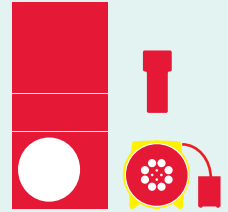
System Components

1000



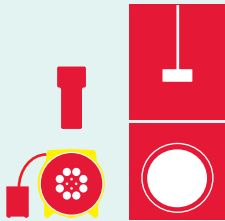
Picture shows optional fan case.

Q5E



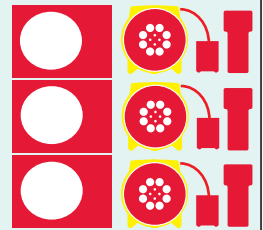
Picture shows fan case & optional tool case.

Q4E



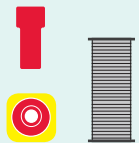
Picture shows fan case & optional tool case.

QMG



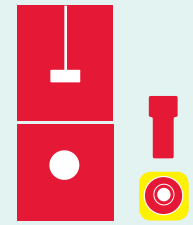
All cases included.

DU200



Case included.

US200



All cases included.

We're here to help!

- Sign up for our monthly gauge setup webinars.
retrotec.com/residential/SupportCenter/SetupWebinars.aspx
- Bookmark our blog! Everything from new testing techniques to industry updates.
retrotec.com/blog.aspx
- Our tech support is always ready to field phone-in troubleshooting and testing questions. Give us a call!
1-855-738-7683
- Access all Retrotec training videos here:
youtube.com/RetrotecTraining

