The Energy Conservatory

MINNEAPOLIS BLOWER DOOR™

PERFORMANCE TESTING TOOLS

MOST WIDELY USED DIAGNOSTIC TOOLS BY:

Weatherization Auditors and Crews

Home Performance Contractors

Home Energy Raters

Trainers

1 ANATOMY OF THE MINNEAPOLIS BLOWER DOOR

2

DG-1000 pressure and flow gauge

- Most advanced digital pressure and flow gauge on the market. Meets all airtightness testing standards for residential and commercial buildings.
- Responsive capacitive touch screen provides high-end performance.
- Built in WiFi, and USB, micro USB and Ethernet ports.
- Field replaceable, rechargeable batteries.
- Future proof technology lets you update your gauge software with new features and capabilities as they are released.
- Compatible with all TEC products, including all new products released in the future.

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DG-700 pressure and flow gauge

- Meets all airtightness testing standards for residential and commercial buildings.
- Stable auto-zero to eliminate sensitivity to orientation and temperature.
- Specialized @50 and @25 test modes make it simple to conduct one-point airtightness tests.
- USB or serial for computer connection.

With WiFi Link

- Creates a wireless network that can be used by any computer or mobile device with WiFi capability.

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Digital fan speed controller

- State of the art precision control of fan speed, with built in cooling fan.
- Compatible with Cruise Control feature and automated testing, and compatible with the DG-1000 and DG-700.

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Wireless Blower Door Testing

- Use the WiFi built into the DG-1000, or attach the TEC WiFi Link to your DG-700 to wirelessly conduct a test.
- Use with TECTITE 4.0 or TECLOG3, or our mobile apps, TEC Gauge for iOS and Android or TEC Auto Test for iOS, and control your gauge from anywhere in the house.

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Powerful and reliable calibrated fan

- Powerful 3/4 hp motor.
- Comes with rings A and B to measure down to 300 CFM.
- Optional rings C, D and E extend the low range to 11 CFM.
- Lightweight and rugged injection molded fan housing.

7

Lightweight, durable door frame and panel

- Snap-together aluminum frame with compact case.
- Sets up quickly and easily, and fits an 8-foot door without needing additional tools.
- Precision cam lever mechanism securely clamps the nylon panel into the door opening.

8

Multi-fan Blower Door Systems

- The Minneapolis Blower Door can be configured for two or three fans in a single doorway.
- With multiple fans installed it is possible to measure the airtightness of almost any size room or building.

9

Mini-fan Blower Door Systems

- The Minneapolis Duct Blaster® fan can be used to conduct airtightness tests on small or tight buildings.
- Use in a mini fan door panel with your existing blower door frame, or in a mini fan window panel with a window frame.

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ETEC
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Minneapolis
Blower Door™
The ENERGY
CONSERVATORY

3


DG-700 Pressure & Flow Gauge

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ETEC

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Standard Minneapolis Blower Door Kit includes:

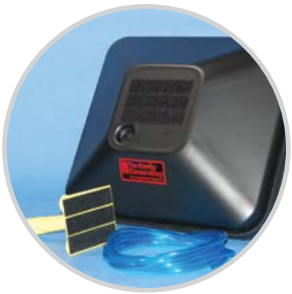
- Fan with variable speed controller and control cable
- Two flow rings (A and B) and No-flow plate
- DG-1000 or DG-700 Pressure and Flow Gauge
- TECTITE™ Building Airtightness Testing Software
- 16-foot (5 meter) USB cable
- Fabric door panel with viewing window
- Five piece adjustable aluminum door frame and frame case
- Padded attaché case for gauge, manuals, tubing, speed controller and fabric panel, with room for a laptop computer and other documents

Accessories and Options

TEC WiFi Link
Wireless connection to your laptop or mobile device using TEC WiFi Link.

Smoke puffer
A convenient source of a refillable, dense and persistent white smoke for diagnosing air leakage sites.

Fan cases
Choose from two: a lightweight, heavy duty, water resistant nylon case or a nylon case padded with high density foam.



Pressure pans
This duct leakage diagnostic tool identifies exterior air leakage in duct systems. Two sizes available.

Software and App Options - *Learn more at software.energyconservatory.com*

- **TECTITE 4.0**
  - » This PC-based software can perform an automated multi-point building airtightness test and provide results in CFM50, ACH50, leakage area and more, as well as provide a detailed test report.
- **TECLOG 3**
  - » TECLOG3, which is PC-based, is designed to automate, monitor and store tests using up to 16 DG-1000s, DG-700s, DG-500s or APT devices, and to provide computerized control of multiple Minneapolis Blower Door fans.
- **TEC Gauge**
  - » TEC Gauge is a free mobile app that provides wireless control and display of DG-1000, DG-700 and DG-500 Pressure and Flow Gauges. TEC Gauge's capture feature allows readings to be stored and shared from the gauge.
- **TEC Auto Test**
  - » This free iOS mobile app allows the user to wirelessly connect with a DG-1000 or DG-700 (with WiFi Link) pressure gauge to conduct an automated duct and building envelope airtightness test.

BLOWER DOOR SPECIFICATIONS

COMPONENT	SPECIFICATIONS	
Model 3 Blower Door Fan	Maximum Flow	6,300 CFM at free air (2,973 l/s, 10,700 m3/h) 5,350 CFM at 50 Pa (2,524 l/s, 9,090 m3/h) 4,700 CFM at 75 Pa (2,360 l/s, 8.495 m3/h)
	Minimum Flow	300 CFM with Ring B (141 l/s, 510 m3/h) 85 CFM with Ring C (40 l/s, 144m3/h) 30 CFM with Ring D (14 l/s, 51 m3/h) 11 CFM with Ring E (5 l/s, 18 m3/h)
	Dimensions	20 in. (50 cm) inlet diameter, 10.25 in (26 cm) length
	Weight	33 lbs. (15 kg) with Flow Rings A & B
	Flow Accuracy	+/- 3% with DG-700 or DG-1000, Rings D & E +/- 4% or 1 CFM
	Calibration	Meets ASTM Standard E779, E1554, CGSB-149.10-M86, EN 13829, ATTMA Technical Standard 1, NFPA 2001, RESNET and USACE
	Power	3/4 hp motor available in 110V or 220V
Adjustable Frame and Frame Material	Frame Material	Extruded aluminum
	Width	28 in. to 40 in. (71 cm to 101 cm)
	Height	52 in. to 96 in. (132 cm to 244 cm)
	Seal	EPDM flexible gasket
	Panel Material	Nylon with built-in vinyl window

Specifications subject to change without notice.

COMPLETE SERVICE AND USER SUPPORT IS BUILT IN.

All of our products come with a full two-year warranty on parts and labor, and access to the most knowledgeable customer service staff in the industry. If you have questions on the use of our products or how to handle unusual situations, you can count on us to give dependable answers. We always stock a complete line of replacement parts and can respond quickly to any service or equipment problem.

Our nearly 40 years of expertise goes beyond simply knowing about equipment. The Energy Conservatory's on-going research, active participation with technical associations, and close working relationships with the world's leading building scientists keeps us involved in the development and field testing of many of the performance testing industry's techniques. This means you always have the most up-to-date information and testing procedures.

The **Minneapolis Duct Blaster®** is used to measure the airtightness of ductwork.

The **Mini Fan Blower Door System** uses the Duct Blaster fan and can be used to conduct blower door tests on small or tighter apartments and homes.

The **TrueFlow® Air Handler Flow Meter** is used to measure the total amount of air moving through an air handler.

For nearly 40 years, the Minneapolis Blower Door™ has been the system of choice for energy raters, HVAC contractors, builders, insulation contractors, weatherization professionals and utility programs.

The most accurate **Easy to use** **Dependable**

Backed by industry-leading tech support

To order, or for more information contact:

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