



BlowerDoor measurements as a mark of quality

The Minneapolis BlowerDoor Standard

The automatic BlowerDoor test

With the pressure gauge DG-700 and the software TECTITE Express included in the package, you can conduct highly accurate automated BlowerDoor tests.

The fan is started by triggering the release button from your laptop, or, when performing quality assurance as a 1-point test, directly from your digital pressure gauge DG-700 (Cruise Control). While the BlowerDoor builds up and maintains a constant negative pressure, you check the condition of the building and locate leaks. The speed of the BlowerDoor is automatically adjusted to the changed conditions. The air change rate n_{50} is displayed clearly on your laptop screen.



The BlowerDoor measurement series in accordance with the applicable standard is computer-controlled via your laptop and the software TECTITE Express. All collected data is fed into the standard-compliant BlowerDoor test report for evaluation and documentation. This report contains queries and evaluations in accordance with the German Industrial and European Standard DIN EN 13829. The layout of the certificate can be customized in Excel. If necessary, you can also conduct the BlowerDoor measurement by hand without a laptop and then manually enter the measured values in the software. The current volume flow at 50 Pascal and the natural pressure differences are shown directly on-site.



Market leader: The Minneapolis BlowerDoor with a measuring range from 19 m³/h to 7,200 m³/h

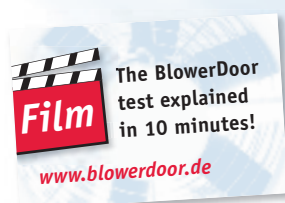


DG-700 with Cruise Control

The digital pressure gauge DG-700 is also impressive as a stand-alone device.

Test the operability of exhaust air systems, conduct a rapid functional test of ventilation systems with heat recovery and measure the volume flow through exhaust air valves in

connection with the Exhaust Fan Flow Meter. In combination with the Minneapolis BlowerDoor and the a-value measuring set, you can also determine the air infiltration at window joints following the German Industrial and European Standard DIN EN 12207.

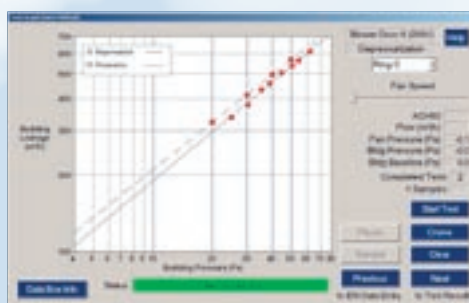


Overview of the most important functions

- Automatic test sequence
- Menu-driven input of building data
- Auto-zeroing of the electronic pressure gauges
- Automated acquisition and evaluation of the natural pressure differences
- Leakage tracking at individually defined constant pressure differentials
- Cruise Control function for one-point tests without a laptop
- Measurement results and test reports can be displayed on-site on the laptop
- Individual adjustment of test settings
- Automatic shutdown when limit pressure is reached



Automated BlowerDoor measurement with TECTITE Express software



Graphic display of pressurization and depressurization measurements



BlowerDoor GmbH
MessSysteme für Luftdichtheit

BlowerDoor GmbH
MessSysteme für Luftdichtheit
Zum Energie- und Umweltzentrum 1
D-31832 Springe-Eldagsen

Phone +49 (0) 50 44 / 975 -40
Fax +49 (0) 50 44 / 975 -44
info@blowerdoor.de
www.blowerdoor.de



Technical Data Minneapolis BlowerDoor Standard

BlowerDoor fan

Capacity: 19 m³/h – 7,200 m³/h at a pressure differential of 50 Pascal

Power supply: 230 Volt, 50 Hz, nominal output <600 watts, max. power consumption 4.5 amperes

Measuring accuracy: With open fan, rings A–C (flow rate approx. 80 – 7,200 m³/h) ± 4 % of the mean. With rings D – E (flow rate approx. 19 – 80 m³/h) ± 5 % of the mean or 1.7 m³/h (the higher value is valid).

Standard installation frame: Opening angle (W x H) 0.7 m – 1.14 m x 1.3 – 2.41 m, incl. 2 horizontal inner braces. Special dimensions available on request.

Panel: Panel with 1 opening and viewing window for standard installation frame

Digital pressure gauge

with two pressure channels and Cruise Control function

Measuring range: - 1,250 Pa to + 1,250 Pa

Display resolution: 0.1 Pa

Accuracy: ± 1 % of reading or 0.15 Pa (the higher value is valid)

Auto-zeroing: At the start, and every 10 seconds

Differential pressure display: Separate display of the two differential pressure channels

Flow rate display: Compatible with Minneapolis BlowerDoor fan models 4 and 3

Units: m³/h, l/s

Averaging: 1 second, 5 seconds, 10 seconds, or long-term mean

Operating temperature: 0°C to 50°C

LCD Display: Large, easy-to-read display:

(L x W) 80 x 30 mm, incl. display illumination

Batteries: 6 AA (optional power supply)

Operating time: Approx. 100 hours

Weight: Approx. 470 g

Dimensions: (L x W x D) 195 x 102 x 32 mm

Output: Serial data output RS 232, mini-USB

Stand-alone functions: Automatic speed control of BlowerDoor fan. Cruise Control function for one-point test without a laptop (0/25/50 Pa)

Computer- or laptop-controlled functions: Automatic BlowerDoor measurement

Software: TECTITE Express

System requirements: WIN XP and higher, Excel 2000 and higher

Guarantee period: 2 years from purchase date

Full warranty period: 4 years from purchase date (subject to regular factory calibration of your digital pressure gauge)

Shipment includes: BlowerDoor fan with reducing rings A–E, BlowerDoor Standard mounting frame with nylon panel, BlowerDoor accessory kit incl. pressure gauge DG-700 with Cruise Control function, speed controller, TECTITE Express software and test report template with certificate generation, tube set, user manual, CalibrationCard