Calibration of the BlowerDoor measuring systems

Ensure the high precision of the BlowerDoor measuring technology through regular calibration. We offer either manufacturer's calibration or calibration with a DAkkS resp. a Cofrac certificate for both the pressure gauges and the BlowerDoor measuring fans.

▶ PRESSURE GAUGES

In order to meet the increasing requirements of national and international standards, our calibration laboratory has been accredited in accordance with DIN EN ISO/IEC 17025 since 2015. Our calibrations include prior maintenance and functional testing as well as adjustment of the pressure gauges if necessary. Appointments are not necessary: you plan the period, we calibrate at attractive conditions.

Manufacturer's calibration

The latest generation of our pressure gauges has an outstanding accuracy of ± 0.9 % of pressure reading. The reference standards applied by BlowerDoor are based on national and international standards. For each differential pressure channel, we calibrate 21 measuring values in a measuring range from ± 2,450 Pa (DG-1000) respectively 25 measuring values in a measuring range from ± 1,220 Pa (DG-700).

The pressure gauges receive an incoming calibration and an adjustment. Any deviations from the target value are corrected and documented in the final outgoing calibration. The preceding functional test includes testing the pressure sensors, the control unit and the overlay. Older pressure gauges receive a free firmware update.

Recommended calibration intervals:

- DG-700 / DG-1000: 2 years
- APT: annually
- Analog Pressure Gauges: 2 years

The national regulations and the requirements of the applicable measuring standard must be observed.

Please note:

The analog pressure gauges do not meet the required measuring accuracies of ISO 9972. An exchange in case of a defect or deviations is only possible to a limited extend, as these analog gauges are no longer produced. We recommend an upgrade to the digital pressure gauge DG-1000.

▶ Prices see www.blowerdoor-unlimited.com

Calibration with DAkkS certificate

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-K-19788-01-00

Our calibration with a DAkkS certificate is conducted according to a standard defined by the German accreditation body (DAkkS). The national metrology institute, Physikalisch-Technische Bundesanstalt (PTB), provides the national standards indicated with the highest possible accuracy. The maintenance of the testing devices, the calibration process, and the organization of the lab are accredited according to DIN EN ISO/IEC 17025. Like all DAkkS-accredited labs, our calibration lab is tested by an internal audit and by DAkkS at regular intervals.

In the calibration of the pressure gauges according to DKD-R 6-1, procedure A, we calibrate a minimum of 15 points in a measuring range of ± 1,200 Pa (DG-700) respectively ± 2,450 Pa (DG-1000). If requested by the client, we can measure more points. The calibration cycle is repeated four times. All our calibrations include

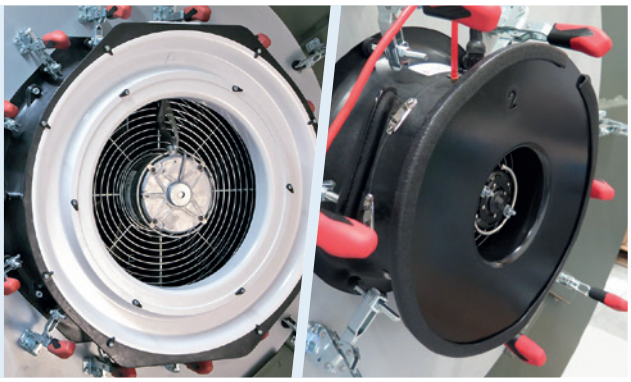
a functional test and the adjustment of the measuring device. The firmware of older DG-700 devices will be updated free of charge.

The calibration certificate contains the information as to whether your measuring device fulfills or does not fulfill the requirements of the standards ISO 9972, FD P50-784 and RE2020 (statement of conformity). The decision criterion for conformity is based on Regulation 4.2.2 of ILAC-G8:09/2019. Please let us know if you would like a different decision criterion: We will be happy to provide you with a customised quote.

▸ Prices see www.blowerdoor-unlimited.com

▸ BLOWERDOOR FANS

The manufactuer's calibration of the BlowerDoor measuring fans is carried out on our calibration stand in Springe. Alternatively, we offer calibration by an accredited test laboratory with a Cofrac certificate. Before each calibration, basic maintenance and a functional test of the measuring fan are carried out. Calibrations are carried out on request. We ask for prior registration.



Manufacturer's calibration (1-point)

We offer manufacturer's calibration (1-point) for the measuring fans of BlowerDoor Standard (model 4) and BlowerDoor MiniFan (model DuctBlaster) according to the manufacturer's specification. One measured value is calibrated per measuring ring (open fan as well as ring A–E or 1–4). The requirement of ISO 9972 (measuring accuracy ± 7 %) is assessed. You will receive a calibration certificate.

A previous maintenance and functional test is included. We calibrate according to your appointment request. Your registration is desired to ensure short calibration times of max. five working days.

Recommended calibration interval:

▸ BlowerDoor Standard / BlowerDoor MiniFan: 4 years

▸ Prices & registration see www.blowerdoor.com

Calibration with Cofrac certificate

If the calibration is performed by our ISO/IEC 17025 accredited partner laboratory, 3 measured values are calibrated per flow ring. The conformity of the measuring fan is evaluated. You will receive a Cofrac certificate (formerly DAkkS certificate). Cofrac is a signatory to the international agreements of the ILAC (International Laboratory Accreditation Cooperation) and the EA (European co-operation for Accreditation) for the recognition of the equivalence of calibration documents.
Comprehensive basic maintenance and functional testing are included. Please register in advance.

▸ Prices & registration see www.blowerdoor.com

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