Dichtheitsprüfung · Durchflussprüfung · Funktionsprüfung

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Test bench for pressure difference on Medical-face-masks according to DIN EN 14683 and community face coverings according to CWA 17553

automated version

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Features:

With the test station for pressure difference on medical-face-masks, the test is performed according to the specifications of DIN EN 14683 or CWA 17553. The material to be tested (mask, filter material) is manually inserted between the top and bottom part of the sample-holder without wrinkles and closed manually. Using the automatic testing device INTEGRA *DFM 14683*, the device provides edited settings and monitors all specifications and test parameters automatically.

Channel 1 is used for adjustment and counter measurement of the flow rate, according to internal test guidelines.
Channel 2 measures and monitors the pressure difference in Pa/cm².
Channel 3 (option) is used to measure and evaluate the supplied air flow rate.

The system is equipped with 256 testing parameter sets (programs) which can be used to store processing times, default values and limit values for specific products.
To start the testing process, it is enough to press the start-button. The process runs automatically. When the test is finished, a green or red signal at the display of the device indicates whether the preset limit values have been maintained or exceeded.
This system is ideal for periodic spot checks during production by semi-skilled employees.

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Automated mass-flow- and pressure measuring device
INTEGRA *DFM 14683* (art. no. 1635)

- automatic test run incl. presetting of values and limits
- limit value monitoring of measured values
- 256 test parameter sets for various product variants
- mass-flow-controller 0...16 l/min with counter measurement of the vacuum mass-flow
- measuring range of pressure difference 0...1400 Pa / cm² (basing on a cross-section of 4.9 cm²)
- internal data storage and RS232 printer interface for measured value documentation
- power supply 110-230V / 50(60) Hz; app. 600 W
- vacuum supply min. 12 Nl/min at 90 % final vacuum
- size 450mm x 185mm x 380mm (w x h x d)

Option:
Mass-flow-sensor 0… 16 l/min for measuring the supplied air as a leak test of the sample-holder

Reference conditions:
23° C / 1000 mbar abs.

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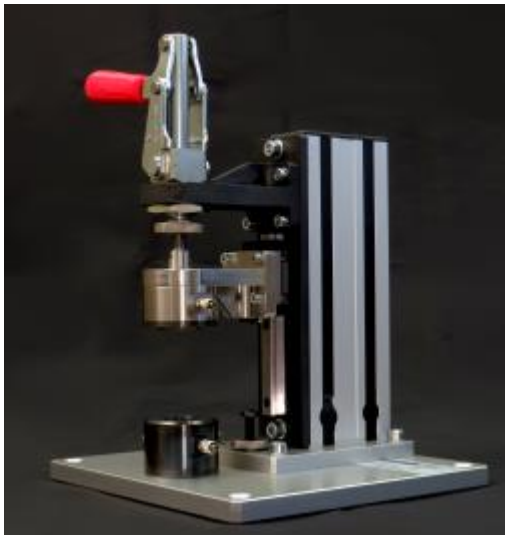
Other components of the test bench:
To set up a complete test station, the following components are required.



Sample-holder to test breathability / pressure difference (art. no. 1632)
The sample-holder is equipped with the opening width of 25 mm according to DIN 14683. The material specimen / mask is placed on the underside of the holder, the upper part is closed manually from above. The sample-holder is equipped with a height fine adjustment for different material thicknesses.
The vacuum connection is located at the bottom, left side of the sample-holder. The supply air connection is located above. On the right side are the connections for measuring the pressure difference.

All connection lines between sample-holder and test device are equipped with quick connectors.

Vacuum station for tests according to DIN EN 14683 (art. no. 1637)

- integrated vacuum pump capacity of 12 Nl/min and final pressure 50 mbar abs.
- vacuum reservoir 750 ml
- vacuummeter 0…-1 bar in the front plate
- supply voltage 230V / 50 Hz 120 Watt
- size 450mmx185mmx380mm (w x h x d)

Accessory:

Log printer

- Citizen CBM-910II
- print technology: Dot Matrix
- type: POS printer
- size of letter: 1,08 x 2,4 mm
- colour: white
- lifetime of tape: 200 million letters
- connection technology: cable
- standard interface: parallel
- dimensions: 10.6 x 18 x 8.8 cm
- weight: 470 g

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