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# BTB3000 – Blower Test Bench

Data Sheet EPE-150995



Made in  
GERMANY

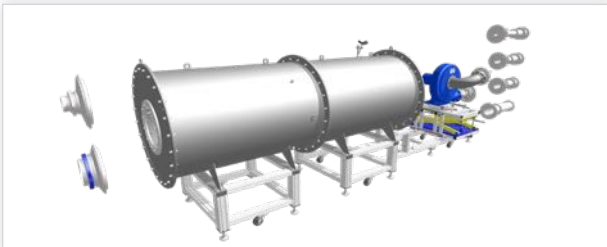


# BTB3000 – Blower Test Bench

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## Characteristic test according to DIN EN ISO 5801 for suction and pressure operation

VMF® - Flow measuring system with venturi nozzles up to 3000 m³/h - pressures up to ±2500 Pa

### Technical data

#### Be entered sizes

Pressure in the calming volume -20..+50 Pa

Control accuracy ± 1.5% EV

#### Measurement sizes

Volume flow in the suction mode 150..2500 m³/h

Measurement accuracy ±1.5% MV + 0.1% EV

Temperature 0..50°C

Measurement accuracy 1/3 class B

Humidity 0..100% rH

Measurement accuracy 3% rH

Atmospheric pressure 800..1200 hPa

Measurement accuracy ± 0.1 % EV

#### Dimensions

Test bench (L x W x H) approx. 3000 x 1500 x 1100 mm

Weight approx. 1000 kg

### Description

The test bench is designed to measure and record the characteristics of fans and blowers. The system can be designed as a suction / pressure side, bidirectional chamber test bench based on DIN EN ISO 5801. A support fan compensates for the pressure loss caused by the measuring section, piping, rectifier, etc. On the test specimen different load conditions can be simulated. The test bench is designed for volume flow measurements up to 3000 m³/h. The chamber pressure can be varied from -20 to +50 Pa in this design. Pressures of ±2500 Pa and more are available on request. Interface to the test specimen is a universal clamping plate with quick-release clamps on the test chamber. The test setup includes exchangeable Venturi measuring sections for flow measurement. The accuracy of the measuring system is below ± 1.5% MV + 0.1% EV.

The auxiliary blower must be connected via a hose connection. The fan can thereby be operated in a separate room (noise reduction & heat source removal). The system is controlled via a PC with NI measurement data acquisition hardware and measurement and control software under LabVIEW.

### Benefits

- ✓ Flow measurement with exchangeable venturi nozzles
- ✓ Very compact design with directly flanged auxiliary fan
- ✓ Universal clamping plate for testing different DUTs
- ✓ Testing according to DIN EN ISO 5801
- ✓ Simple operation by individual software



### Standard solutions

#### Application examples:



#### Gas- and flowmeasurement:

Testing fans with measuring equipment



#### Home and power engineering:

Testing of fan for extractor hood, Characteristic determination for foliage blower



#### Aviation:

Testing of air technology



This is only an example interpretation and can change according to your needs.



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For special requirements we are happy to advise you. Subject to change. / EPE-150995 / Last update: 12/2017 / V02 © EP Ehrler Prüftechnik Engineering GmbH, Wilhelm-Hachtel-Str. 8, D-97996 Niederstetten

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+49 (0) 79 32 . 6 06 66 - 0 / +49 (0) 79 32 . 6 06 66 - 11 / info@ep-e.com / www.ep-e.com