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BTB100 – Blower Test Bench

Data Sheet EPE-150990



Made in
GERMANY

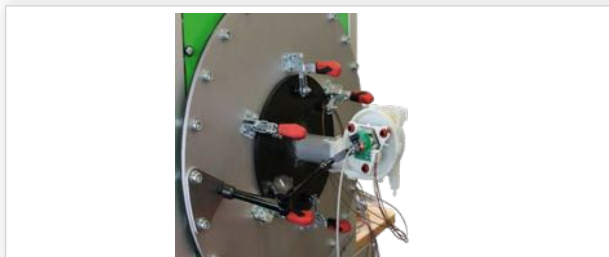


BTB100 – Blower Test Bench

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Similar to figure

Compact characteristics test bench according to DIN EN ISO 5801

LMF® flow measuring system up to 100 m³/h
Pressures up to ± 2500 Pa

Description

The test bench is designed to measure and record the characteristics of fans. The system can be designed as a suction / pressure-side or 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 item different load conditions can be simulated.

The test bench is designed for volume flow measurements in the range of 1.5 to 100 m³/h. This design allows a variation to the chamber pressure from -500 to 500 Pa. Interface to the test item is a universal clamping plate with quick-release clamps on the test chamber. The test setup includes LFE measurement technology for flow measurement. The accuracy of the measuring system is below ± 1.5% MV + 0.1% EV. The auxiliary blower is connected via a hose connection. The blower can thus 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.

Technical data

Be entered sizes

Pressure in the calming volume -500..+500 Pa

Control accuracy ± 2 % EV

Measurement sizes

Volume flow 1,5..100 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. 2000 x 1750 x 850 mm

Weight approx. 400 kg

Benefits

- ✓ Flow measurement with Laminar Flow Element (LFE)
- ✓ Very compact design
- ✓ 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 dishwasher



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-150990 / Last update: 12/2017 / V02
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