

Perfection in fluids.

The right *flow*  
by German engineering.



# BTB10,000 - Blower Test Bench

Data Sheet EPE-155936



Made in  
GERMANY



# BTB10,000 - Blower Test Bench

EPE-155936



Made in GERMANY



Similar to Figure

## Technical Data

<b>Volume flow</b>	5..10,000 m³/h
<b>Temperature environment (suction conditions)</b>	0..50°C
Measurement accuracy ±0,3°C	
<b>Relative humidity (suction conditions)</b>	0..100 % rH
Measurement accuracy ±3% rH	
<b>Differential pressure test chamber to surroundings</b>	0..-100 Pa
Measurement accuracy ±0,25% EV	
<b>Volume flow LFE 1</b>	5..75 m³/h
Measurement accuracy ±1% MV	
<b>Volumen flow LFE 2</b>	66..1000 m³/h
Measurement accuracy ±1% MV	
<b>Volume flow Beta Gassensor</b>	1000..10,000 m³/h
Measurement accuracy ±1% MV	

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

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

Flow measuring system with 2 LFE measuring sections and beta sensor (Wilson-Staugitter) up to 10,000 m³/h Pressures up to -100 Pa

### Description

The test bench is used to determine the characteristic line of fans. The system is designed as a suction chamber test bench to DIN EN ISO 5801. The pressure loss caused by the measuring section, piping, rectifier, etc. is compensated by a support fan. Different load conditions can be simulated on the test item.

The test bench is designed for volume flow measurements from 5 to 10,000 m³/h. The chamber pressure in this embodiment can be varied from 0 to -100 Pa. The interface to the DUT is a universal clamping plate with quick release clamps on the test chamber. The test setup includes two LFE measurement sections and a beta sensor (Wilson Staugitter) for flow measurement. The 3 measuring sections can be switched over manually in a very short time (Blower-Door System). The accuracy of the measuring system is ± 1% MV.

The blower can be operated in a separate room (noise reduction and heat source). The system is controlled by a PC with NI measurement hardware and LabVIEW measurement and control software.

### Benefits

- ✓ Measurement accuracy up to ± 1% MV
- ✓ Universal clamping plate for testing different test items
- ✓ Test according to DIN EN ISO 5801
- ✓ Easy operation due to individual software
- ✓ Optional: Switch from suction to blowing operation



### Standard solutions

#### Application examples:



#### Gas and flow measurement technology

Testing of fans with measuring devices



#### HVAC and energy technology

Testing of extractor hoods, blowers



#### Aviation

Testing of air components



Top-Innovator 2016

For special requirements we are happy to advise you. Subject to change. / EPE-155936 / Last update: 03/2018 / V03 © EP Ehrler Prüftechnik Engineering GmbH, Wilhelm-Hachtel-Str. 8, D-97996 Niederstetten

**TOP-INNOVATOR 2016:** EP Ehrler Prüftechnik is one of the most innovative companies in the German SME segment.

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