

Perfection in fluids.

The right *flow*
by German engineering.



BTB Blower/fan test bench

HVAC & acoustic test bench

Data sheet EPE-169188





EPE-169188

HVAC & acoustic test bench

Made in
GERMANY

Similar to figure

Technical data

Differential pressure	-1250...1250 pa
Volume flow	1...1000 m ³ /h
Measurement accuracy	± 0.5% MV
Temperature	RT
Noise level test air	< 25dB (A)
Voltage (optional)	0...400 V
Current (optional)	0...70 A

Dimensions

Test bench (L x W x H)	2700 x 1000 x 1000 mm
Weight	approx. 300 kg

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

Acoustic test bench for HVAC moduls

Volume flow: 1...1000 m³/h

Measurement accuracy: ± 0.5% MV + 0.2% FS

Use of laminar flow elements (LFEs)

Description

The system is used for testing and characteristic curve determination of HVAC modules, e.g. in connection with an acoustic chamber (semi-open field). The system includes an air conditioning and control system, an acoustic box and flow meter. The air flow rate is measured via laminar flow elements (LFEs) in a flow range of 10 to 1000 m³/h in both flows (bidirectional operation). The report of the air flow can be switched from m³/h to kg/h. In order to reduce the noise level of the air conditioning, control and measuring system as well as the acoustic box, a combination of silencers with appropriate device is installed. With this combination it is possible to achieve a sound level of 25 dB (A) at the acoustic box. The system is controlled by a PC with accurate data acquisition hardware and control software in LabVIEW.

Benefits

- ✓ Flow measurement with laminar flow elements (LFEs)
- ✓ Highest accuracy up to ± 0.5%
- ✓ Test according to DIN EN ISO 5801
- ✓ Acoustics regulation < 25 dB (A)
- ✓ Compact design



Standard solutions: Application examples:



Gas- and flow measurement technology:
Test of fans with measurement equipment



Automotive and automation:
Characteristic curve determination of HVACs for vehicles



House- and energy technology:
Test of household appliances & ventilation systems



Aviation:
Test of ventilation components

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For special requirements we are happy to advise you. Subject to change. / EPE-169188 / Last update: 02/2019 / V01
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