

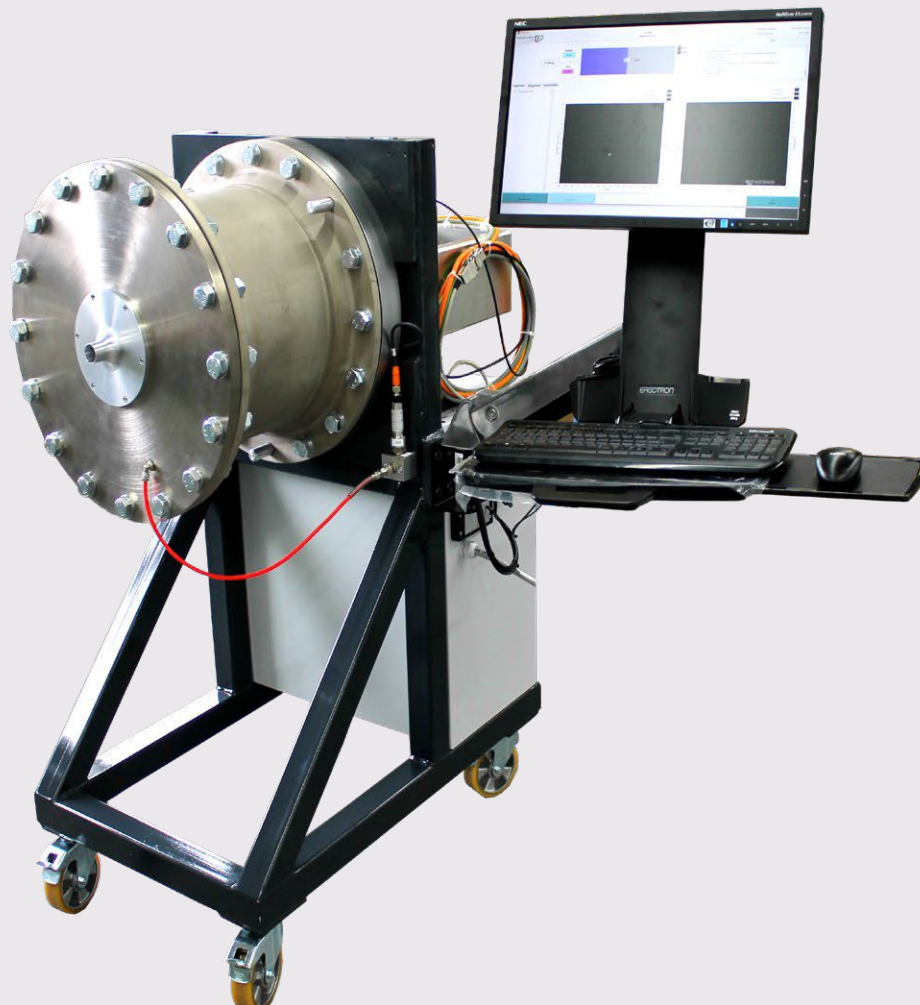
Perfection in fluids.

The right *flow*  
by German engineering.



# Flow generator for simulating breathing air flows

Data sheet EPE-187628



Made in  
GERMANY



# Flow generator for simulating breathing air flows

EPE-187628



Made in  
GERMANY



Similar to figure

## Technical data

Flow range	0.025...20 l/s
Acceleration	0...1400 l/s <sup>2</sup>
Position of the piston	0...330 mm
Pressure measurement cylinder	-100...100 mbar ( $\pm 0.1\%$ FS)



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

## Calibration of air flow sensors

Use of a piston system to generate constant flows and flow profiles  
Test equipment for medical technology

### Description

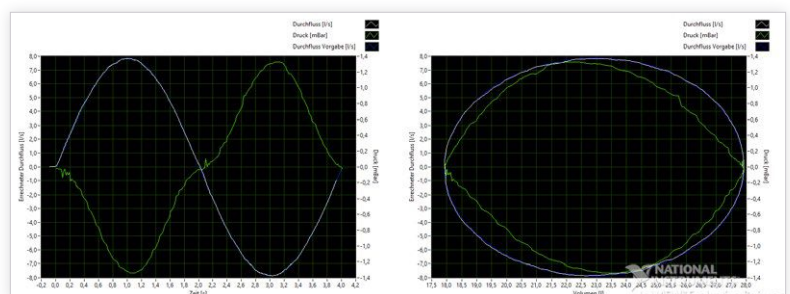
The test bench is used to calibrate air flow sensors for lung function diagnostics and is designed for simulating the human breathing air. By using a piston system, constant flows and flow profiles such as sine, trapezoid or freely selectable curves can be generated via data point input (*flow generator*). The system is controlled via a PC with NI measurement data acquisition hardware and measurement and control software under LabVIEW.

The test system is particularly characterized by the generation of stable flows in the low flow volume range. In the medical industry it is used to adjust or calibrate flow sensors, for example to measure human respiration. The human breathing velocity is very fast - the use of the piston system makes it possible to generate high flow rates and to regulate and, if necessary, adjust them at the same time.

### Benefits

- ✓ High dynamic
- ✓ Freely selectable volume flow curves
- ✓ Traceable calibration of the volume flow

### Measurements



Flow and pressure depending on time



For special requirements we are happy to advise you. Subject to change. / EPE-187628 / Last update: 10/2020 / V01  
© 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