

determining breathing resistance

Test device BOREAS

convenient performance
for a wide range of possibilities



APPLICATIONS & INDUSTRIES

- RPE with filtering half-mask
- Anti-aerosol RPE with an insulating front part
- Anti-gas filtering RPE with an insulating front part
- Gas and anti-aerosol (combined) filtering RPE with an insulating front part
- Filtering self-rescuer
- RPE (including filtering) from radioactive substances
- Industrial & fire safety, emergency protection
- RPE certification, research and design

For developers
and manufacturers
of respiratory protective
equipment (RPE)



For certification
bodies and testing
laboratories



For research
centers and
universities



DESCRIPTION

Test device "Boreas" creates a constant air flow through the RPE in the directions of "exhalation" and "inhalation" and measures the air pressure difference between the surrounding atmosphere and the mask space of the RPE, calculates the resistance to air flow.

PRINCIPLE OF OPERATION:



DATA SHEET

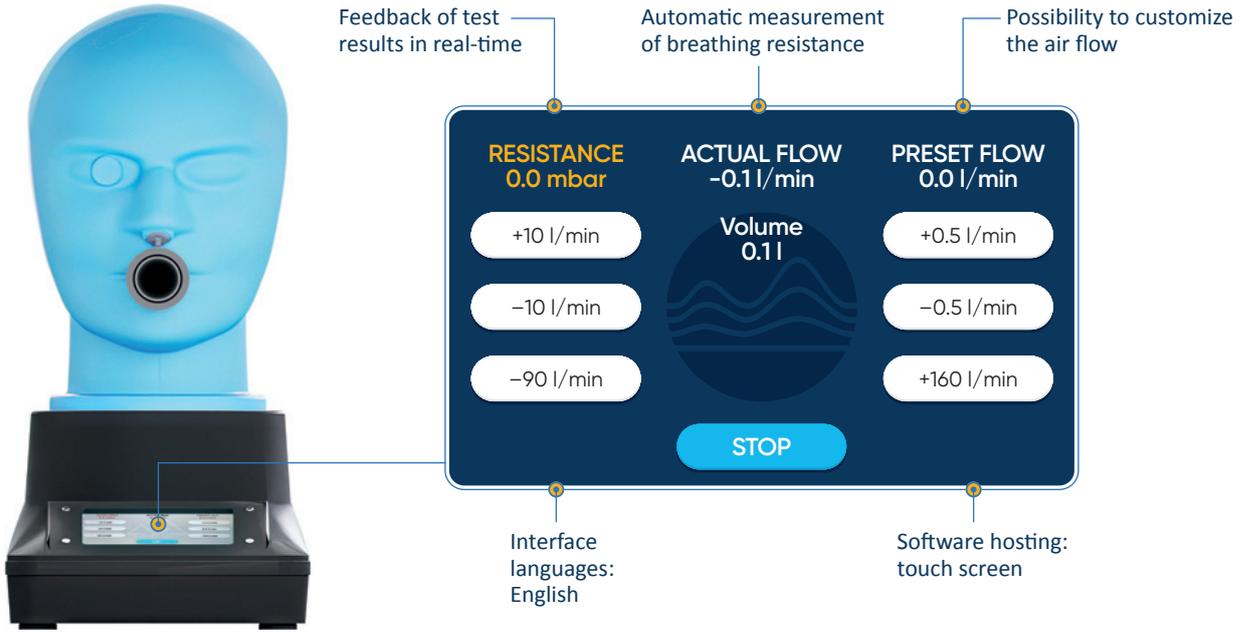
SPECIFICATIONS	VALUE	UNIT
Measurement range of volumetric air flow through the tested RPE:		
- in the direction of inhale	30 to 125	dm ³ /min
- in the direction of exhale	30 to 160	dm ³ /min
Measured resistance to constant airflow	± 1,1	kPa
Overall dimensions (Width × depth × height)	193×260×415	mm
Power supply	50 / 230	Hz, V
Power consumption	100	W
Weight	4	kg
Time to enter the mode	instantly	
Average life time	at least 5	years
Time to failure	40 000	hours, not less

The color of the product may differ from the color of the photo in the brochure

TERM OF USE	VALUE	UNIT
Ambient temperature	18 to 30	°C
Atmosphere pressure	630 to 800	mmHg
Relative air humidity	from 10 to 80	% RH



SOFTWARE PLATFORM POSSIBILITIES



DELIVERY COMPONENTS with test device

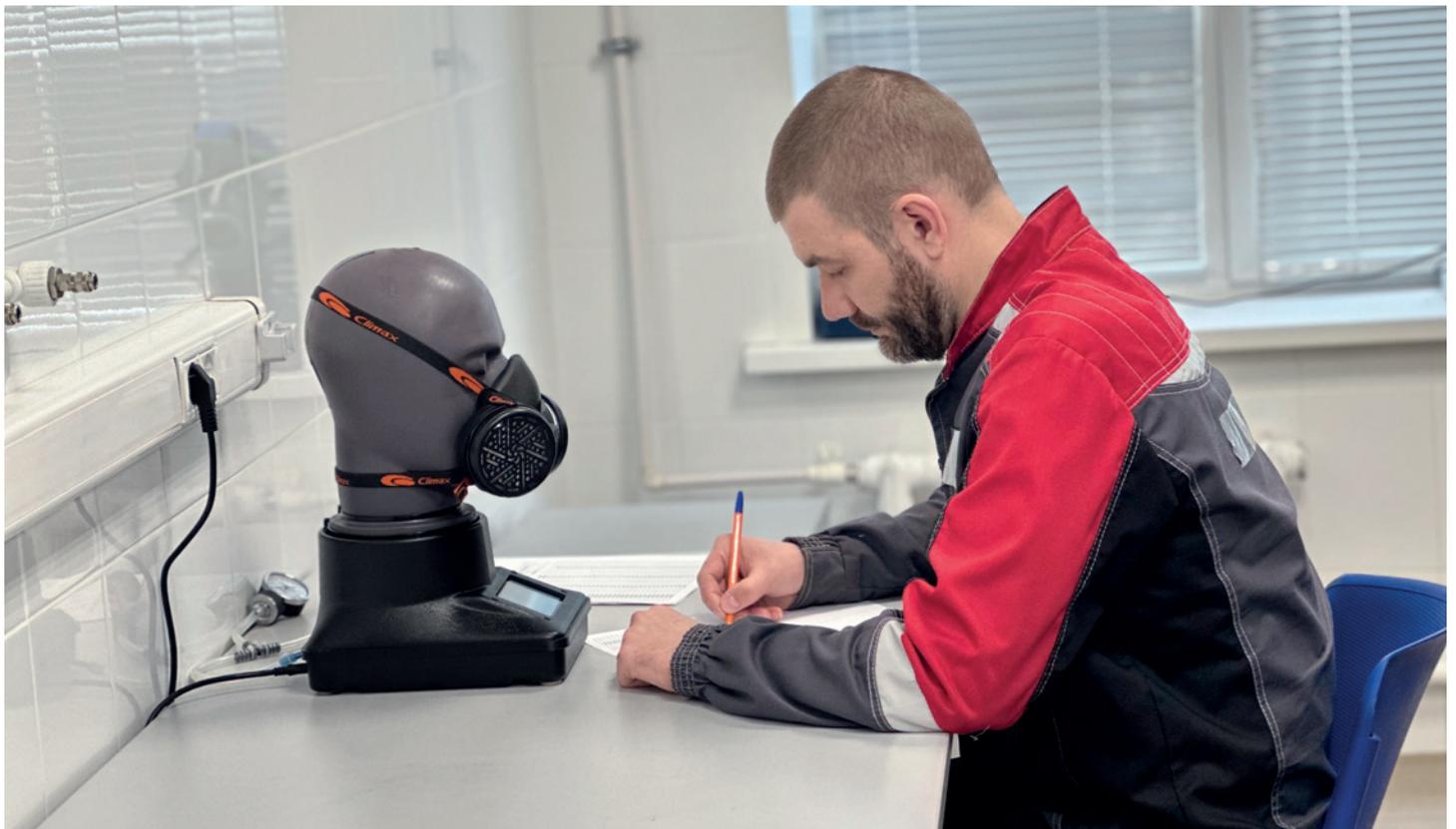
Name	Q-ty, pcs.
Device for inflating a dummy head	1
Special case with IP67 protection class for transportation and storage	1
Installed software	1
Documentation set	1

The complete set of delivery is given in the instruction manual

RELEVANT STANDARDS*:

EN 136, EN 140, EN 143,
EN 149, EN 405, EN 1827

*meets one or more standards. If you require testing to a standard not listed, please contact us.



WHY TEST DEVICE BOREAS?

1. Universal platform for research & quality control of RPE

Test device «Boreas» has no restrictions in modes and can create an air flow with any value of volume flow within:

- from 30 to 160 dm³ / min in the «exhalation» mode;
- from 30 to 125 dm³ / min in the «inspiration» mode.

For your convenience, the device contains ready-made modes according to the standards: 90 and 160 dm³/min.

2. Ergonomic design and mobility

Test device «Boreas» is made of an inflatable head dummy with a silicone

soft-touch coating and creates an ideal obturation with any face pieces . The device can even be placed on a desk, it is easy to move because the weight is no more than 4 kg, and can be tilted 90 degrees.

3. Increases the productivity of the testing process

Thanks to its own unique development of hardware and software, the test device «Boreas» comes to the mode и calculates breathing resistance instantly, and you can do more tests per day.

SERVICE



Warranty
from 12 months



Training
of the Customer's staff



Service support
for the entire period of use



Development of the equipment
according to your terms of reference



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