



## TESTING UNIT BOREAS



Gas rate converter for constant air flow "Boreas" is designed for personal protective equipment (PPE) of filtering type testing to determine initial resistance to the constant air flow.

It is designed for stationary and mobile use in laboratory and industrial environments

«SECOND BREATH» LLC  
second-breath.net  
mail@second-breath.net  
+7 (999) 621-97-77



SI Register



## SPEED

- ▶ Immediate test ready time.
- ▶ Instantaneous change in flow speed.



## AUTOMATION

- ▶ High level of automation. All control is performed using touch-screen.
- ▶ All parameters are supported in automatic mode.



## MOBILITY

- ▶ Boreas can be used in various production warehouses and other premises.
- ▶ For transportation and storage a special case with IP67 protection class is used.

Pumped dummy head

Location of the pressure sensor connection in the under-mask space

- ▶ Measurable resistance to constant airflow -4... 4 kPa

Mouth opening spigot

- ▶ Volume flow rate at "exhalation" 30... 165 dm<sup>3</sup>/min ±2,5 %
- ▶ Volume flow rate at "inhalation" 30... 125 dm<sup>3</sup>/min ±2,5 %

Touchscreen display

Base stand



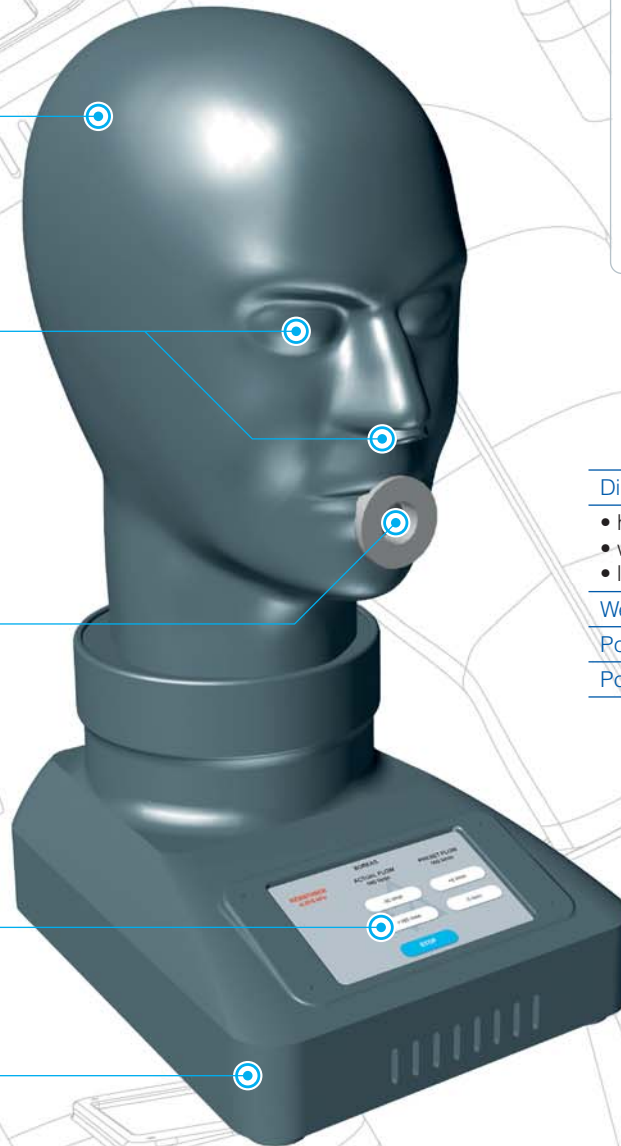
### Dimensions

- height 450 mm
- width 280 mm
- length 270 mm

Weight no more than 4 kg

Power supply 220 V 50 Hz

Power consumption no more than 0.3 kW



**BOREAS**

**RESISTANCE**  
-0.009 kPa

**ACTUAL FLOW**  
-88 l/min

**PRESET FLOW**  
-90 l/min

-90 l/min      +5 l/min

+160 l/min      -5 l/min

**STOP**

**BOREAS**

**RESISTANCE**  
-0.015 kPa

**ACTUAL FLOW**  
160 l/min

**PRESET FLOW**  
160 l/min

-90 l/min      +5 l/min

+160 l/min      -5 l/min

**STOP**

**BOREAS**

**RESISTANCE**  
0.089 kPa

**ACTUAL FLOW**  
93 l/min

**PRESET FLOW**  
95 l/min

-90 l/min      +5 l/min

+95 l/min      -5 l/min

**STOP**

## FIELDS OF APPLICATION



Research institutes and universities



Developers and manufacturers of the PPE



Certification centers and laboratories



PPE users