

determining total inward leakage

Test equipment ELEGAS

using sulfur hexafluoride (SF_6) as test agent



APPLICATIONS & INDUSTRIES

- Anti aerosol full face & half mask
- Half masks with valves and non-removable anti-gas and (or) combined filters
- Filtering self-rescuers
- Facemask respirators
- Industrial 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 equipment «Elegas» is intended for testing with persons and determines the leakage of sulfur hexafluoride under the front part of the masks, bypassing the filter — along the obturation strip, through the exhalation and inhalation valves, through the leaky connections of the mask.

During the test, the coefficient of leakage of the test substance under the front of the mask to its content in the chamber atmosphere is calculated.

PRINCIPLE OF OPERATION:



DATA SHEET

SPECIFICATIONS	VALUE	UNIT
Linear air flow velocity near the head of the person, when he is in the center of the treadmill, with additional fans turned off	0,12 to 0,20	m/s
Velocity of the additional air flow near the person's head with the additional fan turned on	1,80 to 2,20	m/s
Treadmill speed	1 to 6	km/h
The concentration of sulfur hexafluoride in the air in the test chamber	0,1 to 1	%, vol.
Overall dimensions (length×width×height)	2360×1330×2410	mm
Power supply	50; 220	Hz, V
Power consumption	no more 1	kW
Time to enter to the mode	no more 20	min
Average life time	at least 5	years

TERM OF USE	VALUE	UNIT
Ambient temperature	16 to 32	°C
Atmosphere pressure	630 to 800	mm Hg
Relative humidity	No more 60	%
Supply and exhaust ventilation must operate in the room		



SOFTWARE PLATFORM POSSIBILITIES

Automatic concentration control; leakage measurement of SF₆, direction, and speed of airflow inside the chamber

Hosting: app on the personal computer (laptop)

Interface languages: English

Feedback of test results in real-time

To export test results DATABASE to your devices in PDF&EXCEL-file and print its

Automatic fixation and formation of a test database with results

To create DATABASE of relevant standards, test modes, types and models of RPE, manufactures

DELIVERY COMPONENTS with test chamber

Name	Q-ty, pcs.
Treadmill	1
IR spectrometer	1
Vacuum pump	1
Gas cuvette	1
Control unit	1
Tablet PC with installed software	1
Documentation set	1

The complete set of delivery is given in the instruction manual

RELEVANT STANDARDS*:

EN 149, EN 13274-8, EN 136, EN 1827, EN 12941, EN 12942

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



WHY TEST EQUIPMENT ELEGAS?

1. Universal platform for research & quality control of RPE

The software and technical capabilities of ELEGAS test chamber are suitable for most tests according to international standards, and in case of changes or new ones, you do not have to partially or completely replace the equipment — the settings are simply and flexibly changed* in the software. This feature will allow you to conduct tests according to your research scenarios.

*within technical possibilities

2. Modern way of control

No more manual switching- control of SF₆ concentration, direction and speed of the airflow inside the chamber is done entirely through an application on a personal computer with an English interface. It is possible to quickly and easily master the control of ELEGAS and involve even a laboratory intern in the work.

3. Saves time for lab staff

Software automatically maintains test parameters, records and stores their results, and saves staff time.

4. Increases the productivity of the testing process

Thanks to its own unique development of hardware and software and advanced technologies from the world's best manufacturers test chamber ELEGAS quickly comes to the mode (up to 20 minutes), and you can do more tests per day.

5. Ergonomic design

Test chamber is entirely made of plexiglass, which creates a more comfortable environment for the person inside, and communication with him is established through the speaker system built into the treadmill.

SERVICE



Warranty
from 12 months



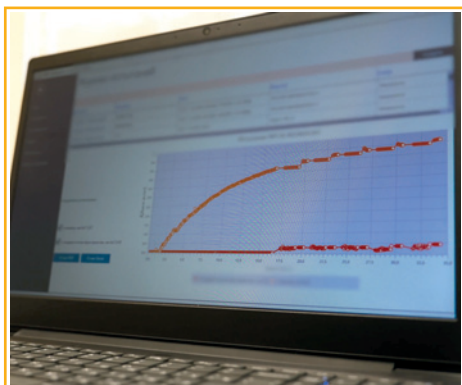
Training
of the Customer's staff



Service support
for the entire
period of use



**Development
of the equipment**
according to your terms
of reference



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