

Measuring
people's
safety

second
breath 

adjust lung ventilation parameters
and create a pulsating airflow

Breathing machine PULSAR

Artificial lungs



APPLICATIONS & INDUSTRIES

- Tests hose gas masks
- Tests in the pressure, climatic, penetration chambers
- Tests at normal atmospheric pressure

For developers and
manufacturers
of respiratory
protective
equipment (RPE)



For certification
bodies and
testing
laboratories



For research
centers and
universities



For aviation
and fire
protection

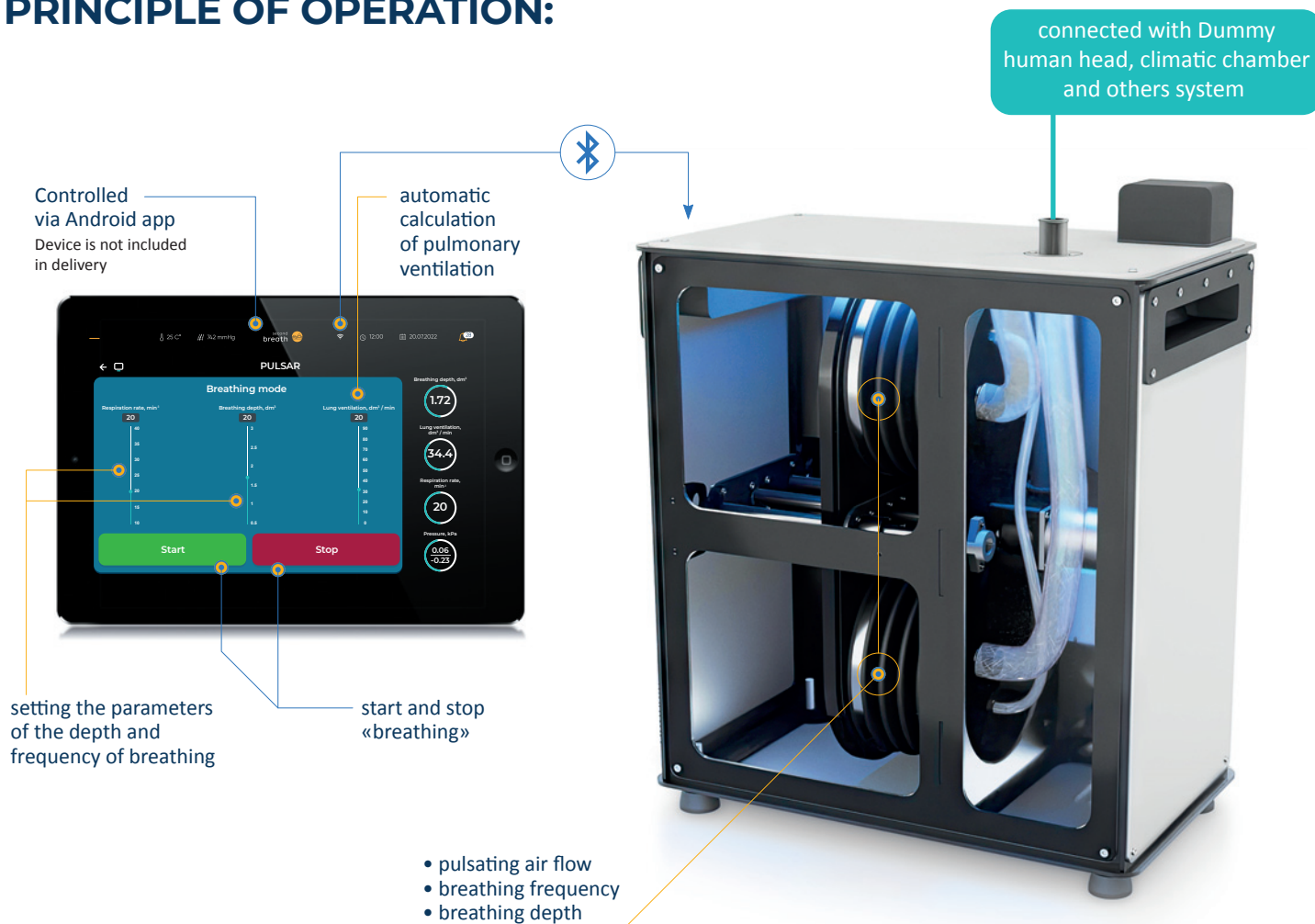


DESCRIPTION

Breathing machine PULSAR creates a pulsating flow of air that imitates human breathing with the required value of pulmonary ventilation. It is used as part of other test benches where reproduction of a pulsating flow of gas-breathing mixture (GBM) is required, but persons are not involved, for example, in climatic chambers, penetration test chamber with using test agents and others.

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PRINCIPLE OF OPERATION:



DATA SHEET

SPECIFICATIONS	VALUE	UNIT
Permissible working pressure in the air duct system of the stand	$\pm 3,5$	kPa
Breathing depth	0,5 to 3,0	dm ³
Breathing frequency	10 to 40	min ⁻¹
Lung ventilation	5,0 to 120,0	dm ³ / min
Overall dimensions (length×width×height)	370×380×570	mm
Power supply	50; 220	Hz, V
Power consumption	no more 1	kW
Weight	no more 25	kg
Time to enter the mode	instantly	
Average life time	at least 10	years

TERM OF USE	VALUE	UNIT
Ambient temperature	18 to 27	°C
Atmosphere pressure	630 to 800	mm. Hg
Relative humidity	10 to 80	%

DELIVERY COMPONENTS with test equipment

Name	Q-ty, pcs.
Software for Android devices	1
Documentation set	1

The complete set of delivery is given in the instruction manual



WHY BREATHING MACHINE PULSAR?

1. Universal platform for research & quality control of RPE

It is possible to use several Pulsar installations for testing life support systems to reproduce the breathing of a group of people with different values of pulmonary ventilation. Tests are carried out at low noise and power consumption.

Pulsar has no restrictions* in test modes, the parameters of the depth and frequency of breathing are simply and flexibly changed * in the software.

*within technical possibilities

2. Modern way of control

No more manual switching. Entering the parameters of the depth and frequency of breathing, the start and

end of «breathing» is carried out through an application with an English interface. Pulsar receives these commands via Bluetooth-channel.

It is possible to quickly and easily master the control of Pulsar and involve even a laboratory intern in the work.

3. Increases the productivity of the testing process

Thanks to its own unique development of hardware and software, Pulsar comes to the mode instantly, and you can do more tests per day.

4. Ergonomics and mobility

- weight – no more 25 kg
- can even be placed on a desk

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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