

ACCU LUNG

Portable Precision Test Lungs

Technical Data



The ACCU LUNG Precision Test Lungs are lung simulators that present a specific load comprised of single specific values or user-selectable values for compliance and resistance. The ACCU LUNG precision test lungs are used for evaluating ventilator performance according to clinical expectation and manufacturers' specification. ACCU LUNG Precision Test Lungs are portable units that can be hung from a cart, the ventilator itself, or hand-held, thus presenting a zero footprint.

Key features

- Small, lightweight and portable
- Single value and user-selectable compliance and resistance settings
- Calibrated accuracy for both resistance and compliance
- Complies with IEC standard for breathing-circuit connection
- Certified test lung for test system traceability to standards

Specifications

	ACCU LUNG II	ACCU LUNG
Single resistance, single compliance (both specified)	•	
Adjustable resistance and compliance (specified)		•
1-liter capacity	•	•
Smallest “footprint” for best portability	•	
Environmental parameters		
Operating temperature	10 °C to 40 °C (50 °F to 104 °F)	
Storage temperature	0 °C to 50 °C (-32 °F to 122 °F)	
Performance characteristics		
Static compliance		C50 0.5 l/kPa ± 10 % at 500 ml tidal volume
	C25 0.25 l/mbar @500 mL /mbar	C20 0.2 l/kPa ± 10 % at 500 ml tidal volume
		C10 0.1 l/kPa ± 10 % at 300 ml tidal volume
Resistance Parabolic (orifice) resistor pressure drops selected from ASTM F1100 (K values), for inspiratory flows at 2, 1, and 0.5 l/s, respectively	Rp5 K 26 mbar/l/s	Rp5 K 2.70 ± 20 % (equivalent orifice size = 8.48 mm) pressure drop 10.80 cmH ₂ O at 2 l/s
		Rp20 K 17.61 ± 20 % (equivalent orifice size = 5.31 mm) pressure drop 17.61 cmH ₂ O at 1 l/s
		Rp50 K 108.70 ± 20 % (equivalent orifice size = 3.37 mm) pressure drop 27.20 cmH ₂ O at 0.5 l/s
Physical characteristics		
Ventilator circuit connection	ISO 15 mm male	ISO 22 mm female
Warranty specifications	12 month	15 month extended warranty on all parts and labor with the following limitations: a) All rubber parts (including bellows made from Hypalon®) are warranted to be free from defects at the time of delivery b) Springs are considered limited lifecycle parts and are expected to survive 1 x 10 ⁶ cycles
Dimensions (LxWxH)	300 x 115 x 42 mm (11.8 in x 4.5 in x 1.6 in)	27.9 cm x 21.6 cm x 10.2 cm (11 in x 8.5 in x 4 in)
Weight	190 g (6.7 oz)	1.8 kg (4 lb)

Ordering information

Model numbers/descriptions

ACCU LUNG ACCU LUNG Precision Test Lung

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Standard accessories

Instructions Operators Manual

ACCU LUNG CASE Soft-Sided Carrying Case

About Fluke Biomedical

Fluke Biomedical is the world’s leading manufacturer of quality biomedical test and simulation products. In addition, Fluke Biomedical provides the latest medical imaging and oncology quality-assurance solutions for regulatory compliance. Highly credentialled and equipped with a NVLAP Lab Code 200566-6 accredited laboratory, Fluke Biomedical also offers the best in quality and customer service for all your equipment calibration needs.

Today, biomedical personnel must meet the increasing regulatory pressures, higher quality standards, and rapid technological growth, while performing their work faster and more efficiently than ever. Fluke Biomedical provides a diverse range of software and hardware tools to meet today’s challenges.

Fluke Biomedical Regulatory Commitment

As a medical test device manufacturer, we recognize and follow certain quality standards and certifications when developing our products. We are ISO 9001 certified and our products are:

- CE Certified, where required
- NIST Traceable and Calibrated
- UL, CSA, ETL Certified, where required
- NRC Compliant, where required

Fluke Biomedical.

Better products. More choices. One company.

Fluke Biomedical

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