

SmartLung™ Product Line



“I want to eliminate
risk and high costs.
With SmartLung™,
I can do both.”



imtmedical

SmartLung™

Test lungs that make high-tech affordable.



Adjustable resistance and leakage

Different airway resistances can be simulated simply by turning the connector. Leakage can also be adjusted by turning the side screw. No adapter required.

**Adjustable compliance**

The slider enables different degrees of lung compliance to be simulated without an adapter.



The problem is well-known: good test lungs take up a lot of space, are expensive and complicated. The result: they are often used incorrectly. Cheap test lungs are frequently limited in their test function and regularly report malfunctions although the device being tested is working properly. Help is now available from Switzerland!

SmartLung™ Adult & SmartLung™ Infant. Small, compact and unique.

SmartLung™ can offer the same performance as large, expensive test lungs. But unlike the latter, SmartLung™ is extremely simple to use and so compact that it can be connected directly to the ventilator tubing system. With SmartLung™, you don't need the cumbersome side-tables required by the large test lungs. SmartLung™ is also unbeatable in terms of price/performance ratio.

Resistance (airway resistance), lung compliance and leakage can be adjusted. Different bag sizes ensure that virtually all patient lungs can be simulated, from babies to adults. Moreover, SmartLung™ does not need any additional adapters. Leak simulation is infinitely adjustable and enables ventilators for premature babies or mask ventilation to be checked. Even the sensitive function of patient flow triggering can be tested with SmartLung™. Combined with the FlowAnalyser™ from imtmedical, pressure, flow and volume measurements can also be taken with SmartLung™.

Replaceable lung bag



**Technical Data
SmartLung™ Adult**

Resistance	5, 20, 50, 200 mbar/L/s
Compliance	10, 15, 20, 30 mL/mbar
Volume	0 - 600 mL (with 1 L bag)
Leak	0 - 10 L/min
Weight	280 grams
Dimensions (L x W x H)	315 x 115 x 40 mm

**Technical Data
SmartLung™ Infant**

Resistance	5, 20, 50, 200 mbar/L/s
Compliance	1, 2, 3, 5 mL/mbar
Volume	0 - 200 mL (with 0.5 L bag)
Leak	0 - 10 L/min
Weight	270 grams
Dimensions (L x W x H)	270 x 115 x 40 mm

General Data

Replaceable components
Sterilisable

SmartLung™ Adult & SmartLung™ Infant

SmartLung™, the cleverest, cheapest and most reliable way to check function and precision of ventilators and anaesthetic machines.

- SmartLung™ Adult simulates adult lungs
- SmartLung™ Infant simulates infant lungs
- Resistance, compliance and leak lung parameters widely adjustable
- Extremely handy and user-friendly
- Top performance and quality at a low price

Please contact us directly for further information. We would be glad to assist you.

EasyLung™



The EasyLung from imtmedical is an affordable, versatile general purpose test lung providing a broad spectrum of benefits to the respiratory care field. It is ideal for ventilator manufacturers validating the safety of their products, for ventilator training and for biomedical engineers performing general service procedures.

The EasyLung combines singular design with high-quality, replaceable parts. The entire EasyLung is autoclavable at 134°C. Its unique double-conus multi-connector also ensures a direct connection to all tubing systems.

Main Features

- Durable parts all autoclavable at 134°C
- Unique double conus multi-connector with OD 22 & OD 15 conical
- Silicone bag and other high-quality materials
- Replaceable parts
- Unique imtmedical test lung design
- Compact & affordable

imtmedical

Replaceable components



Technical Data EasyLung™

Resistance	20 mbar/L/s
Compliance	25 mL/mbar at Vt = 500 mL, PEEP = 0 mbar
Volume	0 - 1000 mL (with 1 L bag)
Weight	280 grams
Dimensions (L x W x H)	305 x 115 x 40 mm

General Data

Autoclavable at 134°C
Double-conus multi-connector (OD 22 conical, OD 15 conical)
Replaceable components
Ordering Number: 300.756.000

Top performance with the imtmedical EasyLung™

- Handy and compact
- High-quality materials
- Competitively priced
- Simulation of adult lungs

Please contact us directly for further information. We would be glad to assist you.

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