

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 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 the 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	325 grams
Dimensions (L x W x H)	300 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 0.5L bag)
Leak	0 - 10 L/min
Weight	285 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 anaesthesia 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.

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