

LUNG SIMULATORS

BC Biomedical Lung Sim Series

General Features

- ◆ Easy to Use
- ◆ Ultra-Portable (< 1 lb)
- ◆ Quick Disassembly
- ◆ Simple Design
- ◆ Replacement Parts Available
- ◆ All Components can be Sterilized
- ◆ Connects Directly to your Ventilator's Existing Tubing

LS-2000 Series Features

- ◆ Adjustable Compliance Settings
- ◆ Adjustable Resistance Settings
- ◆ Variable Leakage Valve
- ◆ Simple Design
- ◆ Fraction of the Price and Size of any Comparable Lung Sim

LS-1000 Series Features

- ◆ Unique Double-conus Connector (OD 22 conical, OD 15 conical)
- ◆ Unbeatable Simplicity & Price



LS-2000A, LS-2000I, LS-1000E

BC Biomedical's Lung Simulator series is an affordable, ultra-portable and easy to maintain alternative to older models. The LS-2000(A/I) SmartLungs come in Adult and Infant models, offering all the performance and features of large and expensive test lungs in an easy to use, compact package. The LS-1000E EasyLung is a simple, low-cost, general purpose test lung with no variable controls.

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BC Biomedical Lung Sim Series

SPECIFICATIONS



LS-1000E
(General Purpose)



LS-2000I
(Infant)



LS-2000A
(Adult)

Resistance	20 mbar/L/s	5, 20, 50, 200 mbar/L/s	5, 20, 50, 200 mbar/L/s
Compliance	25 mL/mbar (Vt = 500mL, PEEP = 0 mbar)	1, 2, 3, 5 mL/mbar	10, 15, 20, 30 mL/mbar
Volume	0-1000 mL (with 1L bag)	0-200 mL (with 0.5L bag)	0-600 mL (with 1L bag)
Leak	N/A	0-10 L/min	0-10 L/min
Weight	0.5 lbs	0.7 lbs	0.8 lbs
Dimensions (LxWxH)	11.9" x 4.6" x 1.7"	10.7" x 4.6" x 1.6"	11.9" x 4.6" x 1.6"
Replaceable Components	Yes	Yes	Yes
Sterilizable	Yes	Yes	Yes

The BC Biomedical LS-1000E EasyLung 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. Its unique double-conus multi-connector also ensures a direct connection to all tubing systems.

The SmartLung is unbeatable in terms of price/performance ratio. Resistance (airway resistance), lung compliance and leakage are all adjustable. Its size eliminates the cumbersome side-tables needed by large test lungs. Different bag sizes ensure that virtually all patient lungs can be simulated; from babies to adults. The SmartLung does not require any additional adapters and leak simulation is infinitely adjustable. The SmartLung enables verification of premature baby ventilators as well as mask ventilation. Even the sensitive function of patient flow triggering can be tested with the SmartLung.



These test lungs are manufactured in accordance with CE requirements.

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