

# Rigel VenTest 800

High-performance gas  
flow analyzer



**The VenTest measures flow, pressure, temperature, humidity and O2 concentrations bi-directionally. The adult, pediatric and high-frequency ventilation measuring modes make the VenTest the ideal calibration tool for all ventilators, anesthesia machines and spirometers.**

The VenTest distinguishes itself from other calibration tools by combining a simple, intuitive multilingual user interface with the most precise sensor technology.

## Why buy the Rigel VenTest 800?

- > Measures and calculates all common respiratory parameters
- > Compatible with gas standards and gas types
- > Built-in data storage with optional software for total traceability
- > USB, RS-232 and external trigger interface

## Key Features:

- > Bidirectional flow
- > High and low pressure
- > Oxygen concentration
- > 7 anesthetic gas concentrations (with OR-703)
- > Multiple respiratory parameters

Passionate about patient safety.  
T: +44 (0) 191 587 8730 E: sales@rigelmedical.com



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TESTED, TRUSTED... WORLDWIDE.

See the **VenTest** 800 for yourself, request your FREE live online demonstration today at [rigelmedical.com/ventest800](http://rigelmedical.com/ventest800)



### What's in the box?

- > VenTest 800
- > Calibration Certificate
- > Power Supply
- > Filter
- > Adapter Set

### Optional Accessories:

- > FlowLab Software (800A9401)
- > Adult Smart Lungs (800A948)
- > Infant Smart Lungs (800A950)
- > OR-703 Multi Gas Analyser (800A942)

### Technical Specification:

#### Measurement Parameters

Flow Low Range	-20 – 20 L/min
Flow Low Accuracy	± 1.75% of reading or ± 0.04 L/min
Flow High Range	-300 – 300 L/min
Flow High Accuracy	± 1.75% of reading or ± 0.1 L/min
Volume Range	-100 – 100 L
Volume Accuracy	± 2% of reading ± 0.02 L (Flow High) or ± 0.01 L (Flow Low)
Pressure (at High Flow) Range	0 - 150 mbar
Pressure (at High Flow) Accuracy	± 0.75% of reading or ± 0.1 mbar
Differential Pressure Range	-150 – 150 mbar
Differential Pressure Accuracy	± 0.75% of reading or ± 0.1 mbar
High Pressure Range	0 – 10 bar
High Pressure Accuracy	± 1% of reading or ± 10 mbar
Ambient Pressure Range	0 – 1150 mbar
Ambient Pressure Accuracy	± 1% of reading or ± 5 mbar
Vacuum Pressure Range (VenTest 810 ONLY)	± 1000mbar
Vacuum Pressure Accuracy (VenTest 810 ONLY)	± 0.5%* or ± 2mbar**
Oxygen Range	0 – 100 vol%
Oxygen Accuracy	± 1 vol%
Humidity Range	0 – 100% RH (non-condensing)
Humidity Accuracy	± 3% RH
Temperature Range	0 – 50°C
Temperature Accuracy	± 1.75% of reading or ± 0.5°C
Dew Point Temperature Range	-10 – 50°C
Dew Point Temperature Accuracy	± 2% of reading or ± 1°C
CO <sub>2</sub> , N <sub>2</sub> O, HAL, ISO, ENF, SEV, DES Concentration	See OR-703 Specification
Gas Standardisation	ATP, ATPD, ATPS, AP21, STP, STPH, BTPS, BTPS-A, BTPD, BTPD-A, 0/1013, 20/981, 15/1013, 25/991, 20/1013, NTPD, NTPS

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### Service and Warranty

The VenTest 800 comes with a free 12-month warranty, subject to terms and conditions, available at

[rigelmedical.com/register](http://rigelmedical.com/register)

### Technical Specification (Continued):

#### Ventilation Parameters

Tidal Volume of Inspiration and Expiration Range	± 10 L
	Flow High: ± 1.75%
Tidal Volume of Inspiration and Expiration Accuracy	0.20 mL (>6.0 L/min) Flow Low: ± 1.75% or 0.10 mL (>2.4 L/min)
Minute Volume of Inspiration and Expiration Range	± 300 L/min.
	± 2.5%
Minute Volume of Inspiration and Expiration Accuracy	0.02 L (Flow High)
	0.01 L (Flow Low)
Inspiratory and Expiratory Time Range	0.05 – 60 s
Inspiratory and Expiratory Time Accuracy	± 0.02 s
Ratio of Inspiratory Time to Time of a Respiratory Cycle Range	0 – 100 %
Ratio of Inspiratory Time to Time of a Respiratory Cycle Accuracy	± 5 %
Maximum Pressure Range	0 – 150 mbar
Maximum Pressure Accuracy	± 0.75% or ± 0.1 mbar
Mean Pressure Range	0 – 150 mbar
Mean Pressure Accuracy	± 0.75% or ± 0.1 mbar
Inspiratory/Expiratory Ratio Range	1:300 – 300:1
Inspiratory/Expiratory Accuracy	± 2.5 %
Positive End-expiratory Pressure Range	0 – 150 mbar
Positive End-expiratory Pressure Accuracy	± 0.75% or ± 0.1 mbar
Ventilation Rate Range	1 – 1000 bpm
Ventilation Rate Accuracy	± 2.5% or ± 1 bpm
Peak Flow During Inspiration Range	± 300 L/min
Peak Flow During Inspiration Accuracy	± 1.75% or ± 0.1 L/min
Peak Flow During Expiration Range	± 300 L/min
Peak Flow During Expiration Accuracy	± 1.75% or ± 0.1 L/min
Static Compliance Range	0 – 1000 mL/mbar
Static Compliance Accuracy	± 3% or ± 1 mL/mbar
Plateau Pressure Range	0 – 150 mbar
Plateau Pressure Accuracy	± 0.75% or ± 0.1 mbar
Pressure amplitude (P <sub>peak</sub> PEEP) Range	0 – 150 mbar
Pressure amplitude (P <sub>peak</sub> PEEP) Accuracy	± 0.75% or ± 0.1 mbar

Rev 2

Passionate about patient safety.

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