The Ergoflow flow sensor used with the Bodystik full body plethysmography system, draws on an incredible variable orifice design, which prevents increase in flow resistance at increased flow rates, found with most flow sensors. It is designed and tested to meet all ATS ERS flow and volume waveforms and manufactured to ensure accuracy at better than ±3%.

The Bodystik has been designed as a totally modular system allowing a relatively low cost entry level, for simple body plethysmography with the option to add options such as Bronchial Provocation, Nitrogen Washout and CO Diffusion.

The Bodystik comes as standard with full network compatibility allowing all data to be easily shared between multiple devices, or other Blue Cherry review stations and diagnostic systems. Furthermore with the new HL7 compatibility data can be sent directly to local hospital information systems.

With the lowest ever effective dead space of less than 20ml in the flow sensor and the adjustable design of the new Electronic stand ensures that the Bodystik can be used to test children and adults alike. Together with the adjustable swinging seat the Bodystik is one of the most comfortable testing devices available today.

Using an internet connection Blue Cherry software can automatically download updates, ensuring the system is always up to date.

Solid reliable construction:
- Aluminium cabin for maximum temperature stability.
- 5 Glazed Sides for maximum light and patient comfort.
- Height adjustable stand for optimum patient comfort.
- Electromagnetic door locking for simplicity and safety.
- Revolutionary swing out seat for excellent patient access.
- Lowest possible footprint to fit any lab.

Powerful diagnostic software:
- Using the Powerful Blue Cherry diagnostic software.
- Software for full spirometry as standard.
- Includes Rocc and MIP/MEP measurement.
- Full ATS/ERS compliance for all measurements.
- Complete flexibility in screen layout and report design.
- Powerful statistics and trend of results.
- Integrated Network compatibility.
- Full HL7 integration options available.
## Technical Specifications:

### Mechanical Data:
- **Dimensions:** 750 x 850 x 1700 mm (L x W x H)
- **Weight:** 140 kg

### Electrical Data:
- **IP protection type:** IPX0 IEC 529
- **Classification according to MDD:** Ila 93/42EWG date June 14th 1993 appendix IX
- **Application component type:** BF according to VDE 0750 (DIN EN 60601-1)
- **PC Interface:** USB 2.0
- **Power Supply:** 24V max 4.2A
- **Power Consumption:** <3 A

### Flow:
- **Flow Transducer:** Ergoflow
- **Measuring principle:** Differential pressure
- **Measuring range:** ± 16 l/s
- **Resistance:** <0.12 kPa/(l/s)<15 l/s
- **Effective dead space:** <20 ml
- **Flow resolution:** <1 ml/s
- **Sample rate:** 125 Hz
- **Accuracy:** ±3%/ 20 ml/s

### Volume:
- **Volume:** 0 – 20 l
- **Accuracy:** ±3% or 50 ml

### Box Pressure:
- **Measurement Principle:** Semiconductor
- **Measurement Range:** ±0.25 kPa
- **Accuracy:** <1.5% FS
- **Resolution:** 24 bit

### Mouth Pressure:
- **Measurement Principle:** Semiconductor
- **Measurement Range:** ±25 kPa
- **Accuracy:** 1% FS
- **Resolution:** 15 bit

### CO Analyser:
- **Measurement Principle:** Infrared absorption
- **Measurement Range:** 0 - 3000 ppm
- **Accuracy:** 1%
- **Resolution:** 24 bit

### CH4 Analyser:
- **Measurement Principle:** Infrared absorption
- **Measurement Range:** 0 - 3000 ppm
- **Accuracy:** 1%
- **Resolution:** 24 bit

### Operating conditions:
- **Temperature:** +15°C to +50 °C
- **Humidity:** 10 to 90% non Condensating

### Storage and Transport conditions:
- **Temperature:** -10 °C to +60 °C
- **Humidity:** 0 to 95% non condensating
- **Explosive conditions:** Device should not be used in explosive or flammable atmospheres.

### Minimal requirements PC System:
- **Proven Standards:** DIN EN 60950
- **Processor:** Pentium III compatible or higher
- **1GHz or higher recommended**
- **500 MHz minimum required**
- **RAM memory:** 512 MB of RAM or higher recommended
- **192 MB minimum required**
- **Hard disk drive:** 1.5 GB recommended
- **600 MB free space minimum required**
- **Monitor:** XGA (1024 x 768) or higher
- **USB 2.0 recommended**
- **USB 1.1 minimum**
- **Operating system:** Windows XP SP2 or higher

---

All Geratherm Respiratory products are designed to meet the ATS and ERS criteria and other international standards and guideline’s where required.

The Bodystik complies with DIN EN ISO 23747.

All Geratherm products are manufactured in accordance with DIN EN ISO 9001 and DIN EN 13485.

---

For further information please contact us:

**Love Medical Ltd**
Heatherbank House
3 Wardle Road, Sale
Cheshire M33 3BN

**www.lovemedical.com**
info@lovemedical.com
sales@lovemedical.com

**Tel:** 0161 976 2744
**Fax:** 0161 976 2764

---

Brochure: Bodystik English Art No. 20.027 December 2010 © 2010 Geratherm Respiratory GmbH

Lovemedical is not responsible for any errors contained within this document. Images in this document may show optional features at extra charge. All GR products may be subject to change without prior notice. Spirostik® and Blue Cherry are registered trademarks of Geratherm Respiratory GmbH.