



## The Future of CO-Diffusion

### ✓ Accuracy as standard:

The Ergoflow flow sensor used with the Diffustik full CO-Diffusion 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  $\pm 3\%$ .

### ✓ Configurable Hardware:

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

### ✓ Total Compatibility

The Diffustik 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.

### ✓ Accurate all round testing:

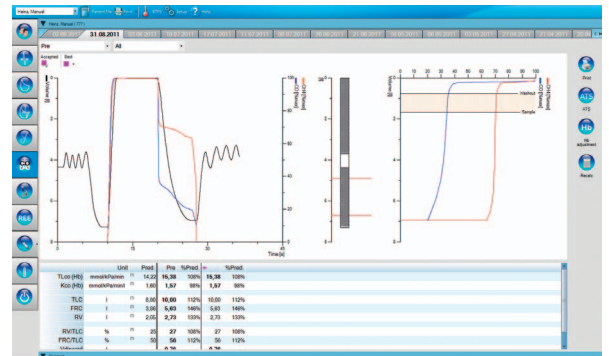
With the lowest ever effective dead space of less than 20ml in the flow sensor and the adjustable design of the new Electronic stand ensures that the Diffustik can be used to test children and adults alike. Together with the height adjustable arm the Diffustik is one of the most comfortable testing devices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

### ✓ Always up to date:

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

### 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.



Add the Diffustik to your existing diagnostic suite with Blue Cherry software all the measurements can be integrated into a single unit and diagnostic centre.

## Technical Data:

Technical Data:	Dimensions: Weight:	210 mm x 175mm x 75mm (L x W x H) 1120 g
Electrical Data:	IP protection type: Classification according to MDD: Application component type: PC interface: Power supply: Power consumption:	IPX0 IEC 529 IIa 93/42/EWG date 14.06.93 Appendix IX BF according to VDE 0750 (DIN EN 60601-1) USB 2.0 230 V AC about 25 W
Flow:	Flow sensor: Measuring principle: Measuring range: Measuring range ventilation: Resistance: Effective dead space: Flow resolution: Sample rate: Accuracy:	Ergoflow Differential pressure ± 16l/s 0 – 300l/min <0.12kPa/(l/s) <15l/s <20ml < 1ml/s 125 Hz ±3% or 20ml/s
Volume:	Measurement range: Accuracy:	0 – 20L ± 3% or 50mL
CO Analyser:	Measurement principle: Measurement range: Accuracy: Resolution:	Infra red absorption 0 – 3000 ppm < 1% 24 bit
CH4 Analyser:	Measurement principle: Measurement range: Accuracy: Resolution:	Infra red absorption 0 – 3000 ppm < 1% 24 bit
Operating conditions:	Temperature: Humidity:	+15°C to +35°C 10 to 90% (non-condensing)
Storage and Transport conditions:	Temperature: Humidity: Explosive conditions:	-10°C to +60°C 0 to 95% (non-condensing) Device should not be used in explosive atmospheres
Minimal requirements PC system:	Norm: Processor: RAM Memory: Hard disk: Monitor: Interface: Operating system:	DIN EN 60950 Pentium III compatible or higher, 1Ghz or higher recommended 500 MHz minimum 512 MB RAM or higher, 192 MB RAM minimum 1.5 GB or greater recommended, 600 MB minimum free space required XGA (1024 x 768) or higher USB 2.0 recommended, USB 1.1 minimum 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. All Geratherm products are manufactured in accordance with DIN EN 13485.		

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