

Diffustik

Lung Diffusion Measurement

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, Body plethysmography.

✓ 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.

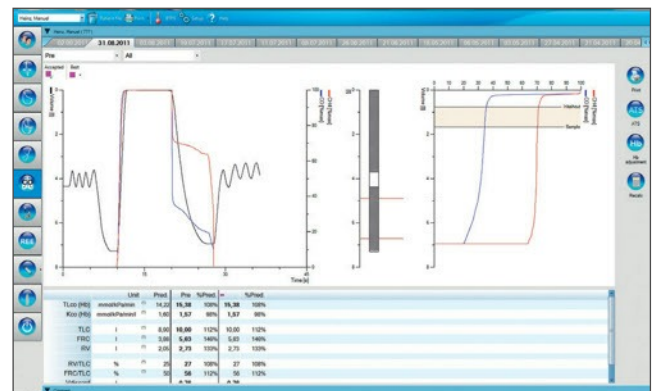
✓ Always Up to Date

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

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.

✓ Powerful Diagnostic Software

- Using the Blue Cherry diagnostic software
- Fully adjustable Discard and Sample volume
- Fully adjustable breathing head position
- Software for full Spirometry as standard
- Includes Rocc and MIP/MEP measurement
- Full ATS/ERS compliance for all measurements
- Complete flexibility in screen layout
- Complete flexibility in report design
- Powerful statistics and trend of results
- Integrated Network compatibility
- Full HL7 integration options available



Technical Specifications

Mechanical Data (Unit)	Dimensions	210 x 175 x 75 mm (LxWxH)
	Weight	1120 Kg
Electrical Data	IP Protection Type	IPX0 IEC 529
	Classification according to MDD	L1a 93/42/EWG date 14/06/1993 appendix IX BF
	Application component Type	According to VDE 0750 (DIN EN 6060 1-1)
	PC Interface	USB 2.0
	Power Supply	230V AC
	Power Consumption	About 25W
	Flow	Flow Sensor
Measuring Principle		Differential Pressure
Measuring Range		±16 l/s
Measuring Range (Ventilation)		0-300 l/min
Resistance		< 0.12 kPa/(l/s) < 15 l/s
Effective Dead Space		< 20 ml/s
Flow Resolution		< 1 ml/s
Sample Rate		125 Hz
Volume	Accuracy	± 3% or 20 ml
	Measurement Range	0-20l ± 3%
CO Analyser	Accuracy	or 50 ml
	Measurement Principle	Infra Red Absorption
	Measurement Range	0-3000 ppm
CH4 Analyser	Accuracy	< 1%
	Resolution	24 bit
	Measurement Principle	Infra Red Absorption
	Measurement Range	0-3000 ppm
Operating conditions	Accuracy	< 1%
	Resolution	24 bit
Storage & Transport conditions	Temperature	+15°C to +35°C
	Humidity	10 to 90% (non-condensing)
	Temperature	-10°C to +60°C
Minimal requirements PC System	Humidity	0 to 95% (non-condensing)
	Explosive Conditions	Device should not be used in explosive atmospheres
	Proven Standards	DIN EN 60950
	Processor	Pentium III compatible 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,
	Monitor	XGA (1024 x 768) or higher
Interface	USB 2.0 recommended, USD 1.1 minimum required	
Operating System	Windows XP SP2 or Higher	

This product is designed to meet the ATS & ERS criteria, guideline's where required and other international standards. The Diffustik complies with DIN EN ISO 23747. This product is manufactured in accordance with DIN EN ISO 9001 and DIN EN 13485.

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