

# Ergostik<sup>TM</sup>

Cardiopulmonary Exercise Test



## The next generation of CPET

### ✓ Accuracy as Standard

The Ergoflow flow sensor used with the Ergostik cardiopulmonary exercise 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  $\pm 3\%$ .

### ✓ Configurable Hardware

The Ergostik has been designed as a totally modular system allowing a relatively low cost entry level, for simple gas exchange measurements and can be expanded to include Oxygen saturation, NIBP, ergometer control and even 12 lead ECG with Arrhythmia analysis.

### ✓ Total Compatibility

The Ergostik 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 Paediatric Testing

With the lowest ever effective dead space of less than 20ml and the ultra light weight design the new Ergoflow ensures that the Ergostik can be used to test children with low ventilation. Used in conjunction with a mask it forms one of the most comfortable testing devices available today,

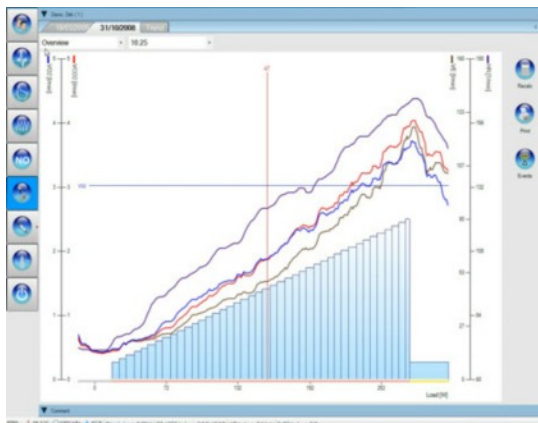
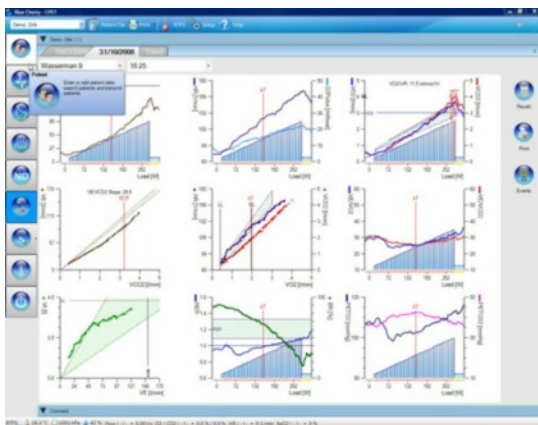
### ✓ Always up to Date

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

The powerful Blue Cherry interface offers a clear graphical display with an intuitive software design.

### ✓ Software Flexibility

The powerful Blue Cherry diagnostic software has been designed to offer true simplicity during testing while retaining the flexibility to allow configuration of most parameters to suit the user. Meaning that the same system can provide the solution for multiple applications.



# Technical Specifications

Technical Data	Dimensions	210 x 175 x 75mm (L x W x H)
	Weight	1120 Kg
Electrical Data	IP Protection Type	IPX0 IEC 529
	Classification according to MDD	Ila 93/42EWG date 14/06/1993 appendix IX
	Application component type	BF according to VDE 0750 (DIN EN 60601-1)
	PC Interface	USB 2.0
	Power Supply	12V max. 5A
	Power Consumption	<3.2A
	Flow	Flow Sensor
Measuring Principle		Differential pressure
Measuring Range		±16 l/s
Measuring Range Ventilation		0 - 300 l/min
Resistance		<0.12kPa(l/s) <15l/s
Effective Dead Space		<20 ml
Flow Resolution		<1 ml/s
Sample Rate		125 Hz
Accuracy		±3% or 20 ml/s
Volume	Measuring Range	0 – 20L
	Accuracy	±3% or 50ml
Oxygen Analyser	Measuring Principle	Electro chemical cell
	Measuring Range	1 - 100% O <sub>2</sub>
	Accuracy	0.1 %
	Resolution	0.1 %
	T90	28 ms
CO <sub>2</sub> Analyser	Measuring Principle	Infrared Absorption
	Measuring Range	1 - 13% O <sub>2</sub>
	Accuracy	0.1 %
	Resolution	0.1 %
Operating Conditions	Temperature	+15 °C to +50 °C
	Storage & Transport Conditions	Temperature
Humidity		0 to 95% (non condensating)
Explosive Conditions		Device shouldn't be used in explosive or flammable atmospheres.

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

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