

## Viasys (Australia) Newsletter

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### Summer edition 2002

Viasys Healthcare and Jaeger have just launched the Oxycon Mobile. We are pleased to present the latest in portable testing equipment, using the well-known interface of the Jaeger Oxycon series in a portable, easy to use interface.

Some of the key features include:

- Integrated Polar® heart rate receiver and belt to measure heart rate reliably.
- Audio Link – An Earphone makes it possible to give the subject under test feedback and coaching information. The system also indicates its status via audio commands.
- Event button. Special events/activities can be marked in the test by pressing the event button.
- Integrated flash card (32 Mb) to store all data collected into the Data Exchange Unit. Although data is transmitted to the base station this is not mandatory. All data collected is always stored on the flash card for ultimate data safety. Even if not all data transmitted is received under difficult circumstances, your data is saved “on-board”.
- Base station Power and Calibration unit (PCa). This telemetry receiver station is connected to a PC via USB-Interface and has beside the telemetry receiver a fully integrated calibration unit for both the gas analyzers as well as the volume transducer of the Oxycon Mobile.
- Battery Charger that charges up to two batteries simultaneously, guaranteeing continuous use of the Mobile.
- Weight, only 850 grams, including batteries!
- Carrying Case: easy storage for the complete system including all the essential parts. Field-testing made easy.



#### Hardware Options

- **1 Channel/3-lead ECG display** (*available Q1-2003*):
  - Integrated three lead heart rate monitor: Heart rate derived from 3 leads of ECG. An alternative for the standard Polar® belt.
- **12-lead ECG** (*available Q1- 2003*):
  - 12 lead ECG system connected to the Data Exchange unit, enabling continuous monitoring of the full ECG of the test subject. The data are transmitted wirelessly to the base station, enabling a continuous monitoring of 12 ECG-leads. It can be used either stand-alone (rest/stress ECG) or in combination with the gas-exchange analysis (full cardio pulmonary exercise analysis)
- **Pulse Oximeter:**
  - Integrated in the SBx module that is carried by the subject. SpO2 can be measured by either the use of a finger clip or ear clip.

For further information, demonstrations or technical information, please do not hesitate in contacting us.

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### Updates on MicroGard Filters

#### Flow Rate

It is crucial for the clinician to be aware that the bacterial filtration efficiency (BFE) and viral filtration efficiency (VFE) are almost always directly correlated to the basis weight of the filter media, which is also correlated to the flow resistance, referred as the Delta P (ΔP). As the basis weight increases, the filtration efficiencies are higher and so is the Delta P. The scientific challenge therefore is to obtain the best possible BFE and VFE efficiency without jeopardizing a higher Delta P. The MicroGard Filter has achieved this delicate balance of high efficiency while maintaining low flow resistance with documented results of >99.99% (BFE), >99.95% (VFE) and ΔP 1.7 mm H<sub>2</sub>O @ 30 L/min.



Brand Name	Bacterial Filtration Efficiency (BFE) Challenge (CFU) 2.6 x 10 <sup>6</sup>	Viral Filtration Efficiency (VFE) Challenge (PFU) 5.0 x 10 <sup>6</sup>	Delta P (TSI) (mm H <sub>2</sub> O @ 30 L/min)
Microgard ®	>99.99%	99.95%	1.7
Spirogard ™	>99.99%	>99.99%	2.5
SpiroBac	89.00%	93.10%	1.0
SureGard	>99.99%	>99.99%	2.1
Pulmogard	99.70%	99.65%	1.4
Clear Advantage ™	99.95%	99.90%	1.0
Collins DC-1	45.00%	57.00%	0.95
Ko Ko Moe	>99.99%	99.94%	1.1
PF30S Pro-tec ® Filter	61.00%	60.00%	0.48
Bacterial/Viral Filter	>99.99%	99.99%	2.6

#### BFE/VFE Efficiency

It is important to know that the viral filtration efficiency was performed using the bacteriophage virus, which, at 0.027 microns, is one of the smallest known viruses. It is considered to represent a severe challenge to the filter media due to its diminutive size and morphology. In comparison, the HIV virus is 0.042 microns while the Hepatitis C is 0.03 microns. Bacteria such as Tuberculosis, by contrast, are much larger in size than viruses.

#### Filter Media

Since Viasys Healthcare moved away from the 3M filter media some years ago, the proprietary filter media used in the MicroGard is a patented special blend of polymers with a highly stable electrostatic charge on every individual fiber of the material. The filter media consistently achieves high efficiencies by deploying both the electrostatic charge and mechanical mechanisms to remove airborne particles. The high efficiency of the charged media allows for a more open matrix of fibers; this results in a minimal restriction to airflow.

Most filtration materials use surface loading as the primary means of removal. With the media used in the MicroGard product, the fiber matrix results in depth loading, where particles are captured throughout the entire filter media, not just on the surface. The filter media is composed of polymer fibers that will not support the growth of mold, mildew, fungus or bacteria. This material also resists degradation over time and is able to withstand extreme temperature and humidity.

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### User Group Forum – ANZSRS Meeting in April

Viasys (Australia) is pleased to announce the first user group forum to be held on Friday afternoon 4 April 2003, commencing at 1pm after the ANZSRS AGM.

Representation from the manufacturers will be present to take your questions and comments, with confirmation from Todd Austin (SensorMedics) and Hans Jürgen Smith (Jaeger).

We would like this to be an enjoyable session, with a focus on learning for all. We will have systems setup in the room at the conference and refreshments will be available. As we will only have one room, we will commence with Sensormedics first for 1½ hours, followed by a short break and then Jaeger for 1½ hours, with a view to finish by 5 pm.

We at Viasys (Australia) are committed to you, the customer and hope this event will become a mainstay at future conferences, giving us all the opportunity to learn and question together. To assist us in achieving this, please understand that there will be limitations in numbers, and we ask that you inform us of your intention as soon as possible. Please call Louise Mitchell on 02 9700 9996 Ext 134 or email on [lmitchell@viasys.com.au](mailto:lmitchell@viasys.com.au)



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### **SpiroPro Version 2.2 has been released!**

SpiroPro® is a complete measuring and diagnostic system for measurement, recording and assessment of the Flow/Volume parameters and Flow/Volume curve. The evaluated data can be printed directly to a PCL-compatible printer or can be downloaded into the Windows based software database. SpiroPro is a handheld Spirometer that uses a semi disposable pneumotach and can now perform the option of SpO<sub>2</sub> in both static form and 60 minute trending, make this unit the ideal overall unit to have.

#### **What does version 2.2 offer:**

- **Slow Vital Capacity Measurements**
- **New Parameters (VC, ERV, IC, VT, MV, BF, ti, te, VT/ti l/s, ti/t/(ti+te)**
- **Improved flexibility in pre/post handling**
- **Delete Single trial in ATS mode**
- **Batch Printing Capabilities**
- **Selection pre defined interpretation statements**
- **SpO<sub>2</sub> and HR option (Spot Measurement and Trending capabilities for up to 60 minutes – up to 500 measurements of 1 hour duration can be stored in the SpiroPro**
- **Support of the Slow Vital Capacity Measurement in Windows Software (option)**
- **Six (6) minute walking test support together with the SpO<sub>2</sub> option in Windows software (option).**
- **Batch Printing Capabilities**
- **Improved Trend Graphs**



**Please call for pricing, demonstrations or for further information.**

## Viasys (Australia) Newsletter

### Contacts for Viasys Australia are:

#### NSW/ACT

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##### Sales

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### National

- Tom Nash – National Business Manager: 07 3847 8011 (tnash@viasys.com.au)
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- Steve Dickason – Viasys National Service Manager: 02 9700 9996 (sdickason@viasys.com.au)
- Louise Mitchell – Sales and Marketing Support: 02 9700 9996 (lmitchell@viasys.com.au)

Thank you for your on-going support. Any questions? Please contact us on any of the numbers shown, and we will assist!

A handwritten signature in black ink that reads "Michael Green".

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