



Feels breathless during exercise

100 metre sprinter

Smoker for 10 years

Difficulty breathing day and night

Feels breathless during everyday activities

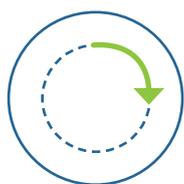
# Vyntus™ Series

Helping guide you to a diagnosis



# Certified services

We care for you as you care for your patients



Our extensive service organization and trained, certified business partners are there to support you, when and wherever needed:

- Online Service
- IT Services
- Phone Service
- Onsite Service



We are confident in the reliability of our Vyntus™ products - accurate results and reproducibility are our passion.

# Clinical expertise and educational programs

## Expand your expertise

Unlock the full potential of your organization, staff and technology through a variety of educational opportunities.



Join our **onsite training** at our main training facility in Höchberg, Germany.



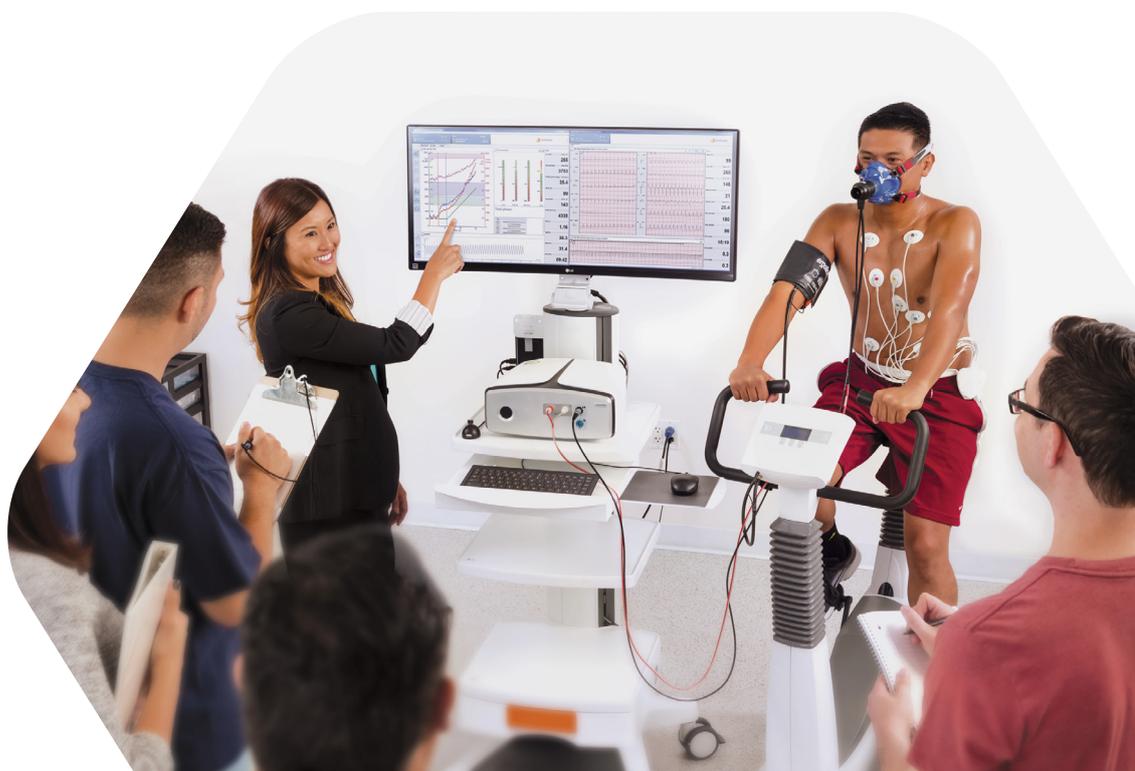
**Clinical expertise** and educational programs.



Learn about **the latest ATS/ERS guidelines**.



**Peer to Peer learning** from global clinical **Key Opinion Leaders** via our accredited webinars.





## Spirometry

“Spirometry is the gold standard for the diagnosis of COPD”<sup>1</sup>

In 2021, approximately 3.5 million people died from **Chronic Obstructive Pulmonary Disease (COPD)** – accounting for **5% of global deaths**.<sup>2</sup>

**Accurate** COPD diagnosis and monitoring are essential for high-quality patient care.

Choose from a range of spirometry systems:

**Vyntus™ SPIRO** - a basic spirometer for essential measurements.

**Vyntus™ PNEUMO** - an expandable spirometry system for added flexibility.

**Vyntus™ IOS** - an impulse oscillometry system for advanced respiratory assessments.



Benjamin,  
36 years

Expiratory Reserve  
Volume limited.

Li, 9 years

Significant bronchodilator  
response of Forced  
Expiratory Volume in one  
second.



## Vyntus™ SPIRO

The **Vyntus™ SPIRO** is designed for ease of use, delivering **accurate results** for both general healthcare professionals and pulmonary labs. Whether as a **stationary** or **portable** PC spirometer, it can function as a **stand-alone device** or be integrated into your **SentrySuite™ network**.



## Vyntus™ PNEUMO

An **expandable spirometer** offering ease of use with **accuracy and flexibility**. Combine your **Vyntus™ PNEUMO** with our integrated **aerosol provocation system, the Vyntus™ APS**, to unlock bronchial challenge testing. Additionally, you can enhance your system with optional mouth and nasal pressure measurements such as **Rocc, P0.1, MIP/MEP, SNIP, rhinomanometry, and compliance tests**.



## Vyntus™ IOS

Based on the recording of a few tidal breaths, **impulse oscillometry** has shown enhanced sensitivity under resting conditions compared to spirometry in detecting **impairments of lung function**.<sup>3</sup>

The **Vyntus™ IOS** allows for the differentiation of **central and peripheral airways resistance**, whilst also allowing spirometry measurements to be performed. Additionally, it can be combined with the **Vyntus™ APS** for **bronchial challenge testing**.





## Pulmonary Function Testing

The combination of the **latest technology** and **high-end design** makes our Vyntus™ ONE and Vyntus™ BODY the most versatile model in our Pulmonary Function Testing (PFT) line. The **innovative ultrasound technology** ensures fast, reliable, and accurate results, while also optimizing both **performance** and the **hygiene process**.

### Perform the whole range of PFT diagnostics

- Spirometry
- Single breath diffusion
- Lung volumes - FRC N2 Washout
- Body plethysmography
- Respiratory mechanics
- And many more



Mira, 32 years

Inhomogeneity of peripheral lung with dynamic hyperinflation.



## Vyntus™ ONE DL/PFT

The Vyntus™ ONE DL / PFT is a **compact, full-function** pulmonary function testing device that fits almost anywhere—and accommodates every patient. Advancements in technology enhance **patient comfort, accessibility, and test outcomes**. Benefit from a combination of trusted and innovative measurement methods. The Vyntus™ ONE also measures lung volumes using the **FRC N<sub>2</sub> Washout technique** for precise and reliable results.



## Vyntus™ BODY

**Designed to be different**

The Vyntus™ BODY stands for **high value** down to the smallest details. This innovative body plethysmograph is designed for healthcare professionals who want to save time while ensuring **precise and reliable measurements**. The spacious cabin and low entry step improve **patient comfort and safety**, making tests seamless and stress-free.



# Prevent cross-contamination!

## The MicroGard® II filter:

- Using a MicroGard® filter ensures accuracy of results and reduced cleaning demand on your equipment, resulting in down stream parts only requiring a 6-month cleaning cycle and reduced down time for your equipment.<sup>4</sup>
- Protects your patients, staff, environment and instruments from viral and bacterial contamination.<sup>4, 5, 6</sup>
- Follows the highest safety standards.
- Has a low resistance to air flow.
- MicroGard® II filter proves to have the combination of greatest filtration efficiency with lowest resistance to airflow.<sup>4</sup>
- Is the only filter that has undergone full validation and verification in combination with our Vyntus™ product line.





# Cardiopulmonary Exercise Testing

Cardiopulmonary exercise testing (CPET) is the essential tool for **differential diagnosis** in **cardiology, respiratory** and **sports medicine**.

Our CPET systems are designed for **high performance, accuracy and flexibility** and seamlessly integrated to perform tests with ease, utilizing our **user-designable post-test evaluation** and **workflow solutions**.

Choose the most suitable diagnostic modality for your **cardiopulmonary function lab** and interface it with a wide range of **bikes, treadmills, blood pressure monitors** and **ECGs**.



Matteo,  
29 years

Significant improvements in training evaluation:  $VO_{2max}$  and VT improved, better HR (VO2) response.



## Vyntus™ CPX

Metabolic testing that's now easy to learn and easy to perform.

Combining **high measurement quality** with **ease-of-use** and **workflow** driven CPET evaluation.

This metabolic cart is suitable for both **patients** and **athletes**, whether **adults** or **children**.

**Indirect calorimetry** with **canopy** and **high/low FIO<sub>2</sub>** are available as optional features.



## Vyntus™ ECG

Extend your devices with the light-weight and compact 12-Lead-Bluetooth ECG and profit from: **one user interface - one combined report - one program to train - one central database, network interface and HIS connection.**

The **Vyntus™ ECG** can also be used as a **standalone device**, offering flexibility to suit your needs.



## Vyntus™ WALK

Make your six-minutes walk tests truly mobile. **Standardization** of testing is key offering **real-time on screen data**, ensuring reproducible, safe and effective testing with reliable data throughout the test. **Focus on your patient**, the **Vyntus™ WALK** is taking care of the data.



# One device - multiple possibilities



Limited by testing volume or space availability  
for separate PFT and CPET systems?

Experience flexibility without compromises. The **Vyntus™ ONE** combines **Pulmonary Function Testing** and **Cardiopulmonary Exercise Testing**, adapting to your diagnostic needs.

Expand this flexibility further by combining your **Vyntus™ ONE** with other devices from the **Vyntus™** product range, along with a variety of **bikes** and **treadmills**.

## One device - Two sensors

Benefit from **trusted sensors**:

- an **ultrasonic sensor** for **pulmonary function testing** and
- a **digital volume transducer** for **cardiopulmonary exercise testing** to provide the technology to meet your needs.



### Vyntus™ ONE

The power of ONE

We re-engineered every facet of the **Vyntus™ ONE breathing circuit** to achieve improvements in **patient comfort** and **accuracy**. Key innovations like **double shot technology** in our ultrasonic measurements, the **flow path valve**, and the **eDemand valve** are at the heart of these advancements.



Charlotte,  
62 years

Diffusion Capacity below lower limit of normal.

Reduced exercise tolerance, decreased ventilatory efficiency and increased ventilatory equivalents.



# SentrySuite™ Software - Empowering your Vyntus™ devices



**≥ 2500**  
Reference  
values

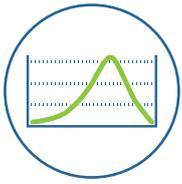
**≥ 20**  
Measurement  
options

**Trusted  
Software**  
More than  
15,000 system  
installations  
since 2010

**15+**  
Languages

**Connectivity  
experience**  
More than 40%  
of our devices are  
networked





## Ease of use is key!

Maintain a clear **overview** without the need for program switches. All essential steps – **calibration, patient data entry, measurements, interpretation,** and **reporting** – can be easily navigated within **ONE** screen.



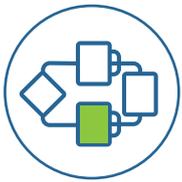
## SentrySuite™ networking

Connect all your measurement devices and review workspaces within one network. Benefit from a **central patient database** and the option for a **Hospital Information System (HIS)** interface.



## Guidance and quality

- Coaching for operator and patient
- Acceptability and repeatability check against ATS/ERS
- Biological and mechanical quality control



## Workflow driven review

Save time with the stationary or web-based physician's review tool.



## Security

- Authentication
- Authorization
- Audit



## Seamless workflow integration

### Assisted interpretation for PFT results

**ArtiQ.PFT** fully automates the interpretation of pulmonary function tests and provides AI-based disease probabilities to support diagnosis. Allowing pulmonologists to focus on clinical decision making and patient consultation.

- Spend your time wisely
- Boost consistency
- Maximize your diagnostic accuracy
- Define your next steps

# Networking

The united data of SentrySuite™

Devices powered by SentrySuite™ Software

Vyntus™ PFT Systems  
SentrySuite™ Software



Vyntus™ CPX  
SentrySuite™ Software



Vyntus™ SPIRO  
SentrySuite™ Software



Vyntus™ WALK  
Mobile six-minute walk test



Non-Jaeger  
data import



Workstation  
SentrySuite™ Software



Workstation  
SentrySuite™  
Mobile Review



Workstation  
e.g. CITRIX



CITRIX

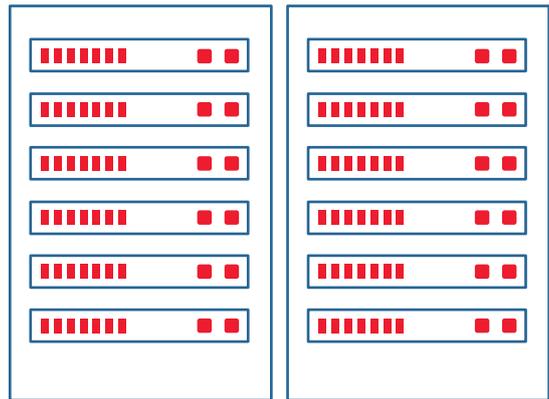
## Physician's review workplace

Use your existing network environments:  
**client-based,**  
**web-based, Citrix.**

## Central Patient Database and HIS Interface

Server - SQL unlimited - HL7 - web-based - HIS - DICOM - GDT

SentrySuite™ SQL Server



### One central patient database, so many advantages:

**One-time patient data** entry saves time

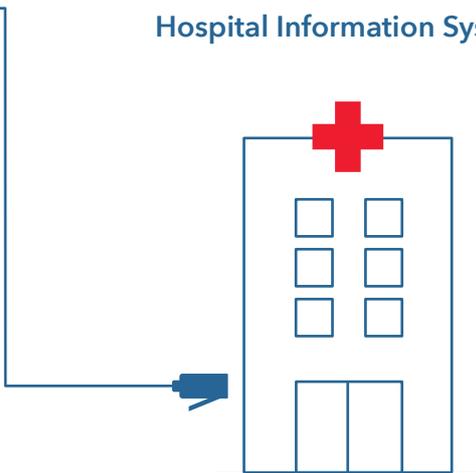
Several measurements from different devices on **one single report**

Measure **spirometry once** and use it for further tests like SB Diffusion or CPET

**Avoid duplication of effort** – changes or new reports, layouts, and predicted sets are globally deployed

**Automatic backup** ensures the security of important patient data

Hospital Information System



### Connect your cardiopulmonary lab with your HIS using SentryConnect

The powerful interoperability solution. Create your individual solution. Our **experienced IT specialists** are there for you every step of the way

Easily **retrieve patient data from your HIS and send back** measurement results

**HL7** messaging with discrete data and **pdf** graphics providing full visual reporting to clinicians

Use **orders with worklists**

Modules for advanced tasks like **billing**

GDT interface for praxis systems

## REFERENCES

- <sup>1</sup> Kristina L. Baley: The Importance of the Assessment of Pulmonary Function in COPD, Medical Clinics of North America, Volume 96, Issue 4, July 2012, 745-752
- <sup>2</sup> [https://www.who.int/news-room/fact-sheets/detail/chronic-obstructive-pulmonary-disease-\(copd\)#:~:text=Key%20facts,5%25%20of%20all%20global%20deaths.](https://www.who.int/news-room/fact-sheets/detail/chronic-obstructive-pulmonary-disease-(copd)#:~:text=Key%20facts,5%25%20of%20all%20global%20deaths.)
- <sup>3</sup> Li, LY., Yan, TS., Yang, J. et al. Impulse oscillometry for detection of small airway dysfunction in subjects with chronic respiratory symptoms and preserved pulmonary function. Respir Res 22, 68 (2021). <https://doi.org/10.1186/s12931-021-01662-7>
- <sup>4</sup> Laboratories of senetics healthcare group GmbH & Co. KG has performed the following test: Simulation of a daily usage of a spirometer with filter attachment for 180 calendar days - 2019-10-249
- <sup>5</sup> Nelson Labs has performed the following tests:  
- Viral Filtration Efficiency Test (VFE) at an Increased Challenge level GLP Report - Nelson Reports 1412080-S01, 1487570-S01, 1638259-S01, 1722702-S01  
- Bacterial Filtration Efficiency Test (BFE) at an Increased Challenge level GLP Report - Nelson Reports 1412078-S01, 1487569-S01, 1638260-S01, 1722703-S01
- <sup>6</sup> UK Health Security Agency has performed the following tests:  
- An Evaluation of Filtration Efficiencies Against Bacillus atrophaeus Bacterial Aerosol Challenges - 24-009, 24-024  
- An Evaluation of Filtration Efficiencies Against MS-2 Coliphage Viral Aerosol Challenges - 24-009, 24-024



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MicroGard®

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