



Vyntus™ CPX

Cardiopulmonary
exercise testing
at its finest

 J A E G E R™

Vyntus™ CPX metabolic cart

Combining cutting-edge technology with ease of use, the Vyntus™ CPX Metabolic Cart offers versatile cardiopulmonary testing for clinicians. Developed with Jaeger's expertise and the latest innovations, it delivers precise, breath-by-breath gas measurements for comprehensive metabolic analysis.

Key features include:

- **Digital Volume Transducer (DVT):**
Compact, lightweight design with minimal dead space and airflow resistance, available in both cleanable and disposable options
- **Automatic Volume Calibration:**
Ensures consistent results while saving time
- **On-board Pulse Oximetry:** Includes finger, ear-clip, and forehead sensors
- **SentrySuite™ Integration:**
Provides step-by-step guidance for standardizing evaluations and reducing time to results
- **Smart Tools:** Automate tasks like slope calculations and patient data trending
- **Customize your Experience:**
Includes an extensive library of adult and pediatric predicted equations, plus robust report generation tools



Our CPX module

Packed with innovative, robust technologies and features that simplify and improve both testing and maintenance



"Tool-free" O₂ Cell

Notifies you when replacement is needed (typically ~2 years). Effortlessly changed by you; no need for a service call.



Digital Volume Transducer (DVT)

- Compact, lightweight design (45 g) is comfortable to wear with Hans Rudolph masks
- Meets the ATS/ERS 24-waveform test guidelines

No syringe required!

CPX automated volume calibration eliminates time-consuming and technique-dependent syringe calibration.

Interface your ECG for comprehensive CPET testing.

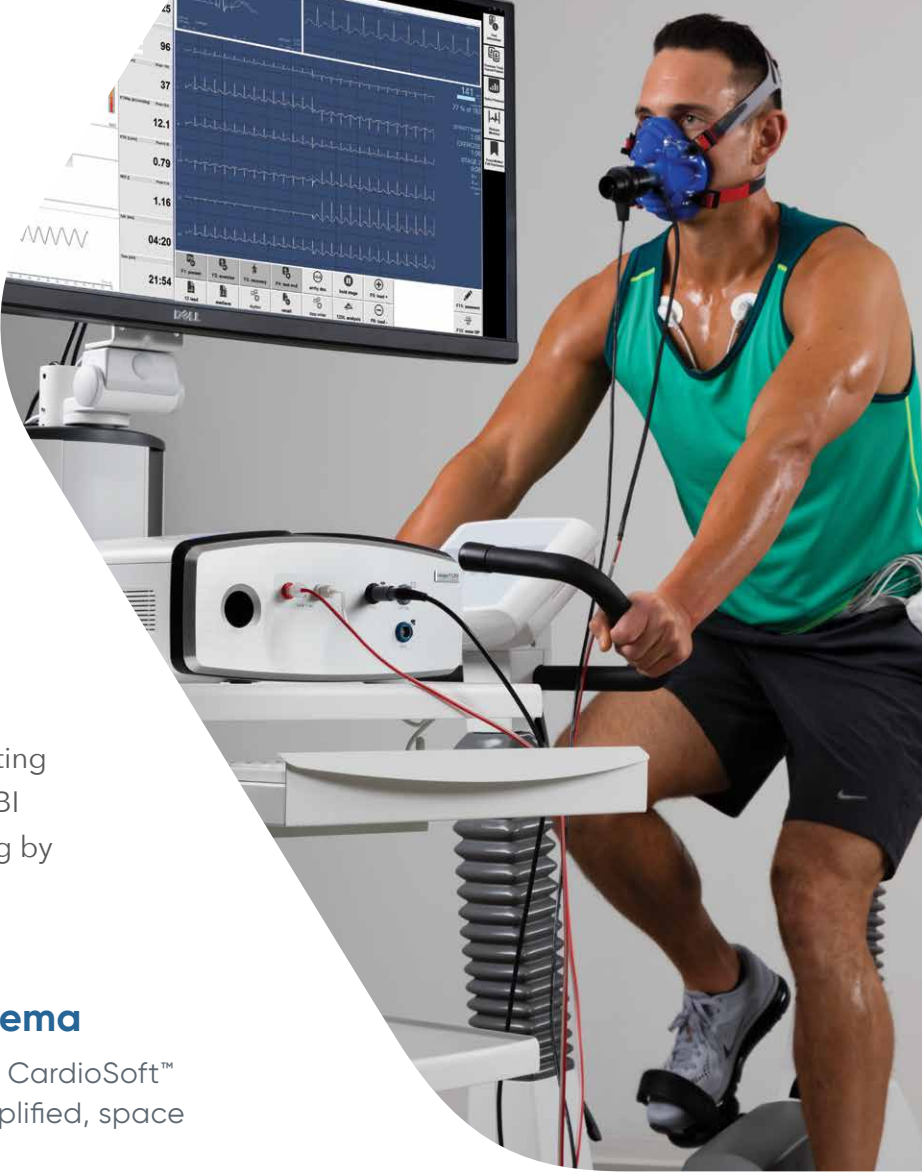
Our flexible Vyntus™ CPX system integrates several commercially available ECG devices; including GE Healthcare CASE™ Exercise Testing System, CardioSoft™, Mortara, Welch Allyn, PBI and others*. Vyntus™ CPX changes everything by changing nothing on your end.

Introducing Vyntus™ CPX Big Cinema

Vyntus™ CPX combined with GE Healthcare CardioSoft™ ECG creates an all-in-one device for a simplified, space saving solution.

CardioSoft™ ECG

- CardioSoft™ data automatically transfers to Vyntus™ CPX
- Acquisition module (CC-14) connects to a standard PC USB port.
- Full Disclosure stores unfiltered, continuous ECG signals.



Vyntus™ CPX Standard Display

Whether it's the CASE system from GE Healthcare or other existing ECG systems, Vyntus™ CPX is the perfect complement. Our standard single monitor display option allows you to view your gas exchange data while leveraging your already existing monitor for ECG.

*Third-party distributed devices.

Vyntus™ CPX Big Cinema

All gas exchange and ECG information on a single screen. **Just look.**

- 1

Display your selected metabolic parameters
- 2

View ongoing performance relative to predicted max values
- 3

Quick patient data access
- 4

Tabs to quickly switch to view different graphics
- 5

Manual override of bike or treadmill protocol
- 6

Real-time data with color-coded maximum predicted ranges
- 7

Countdown to upcoming submeasurement programs showing when next programmed events will occur
- 8

60 second view of patient breathing
- 9

Pertinent ECG data is shared with SentrySuite™ automatically

9 panel graph is viewable during the test.



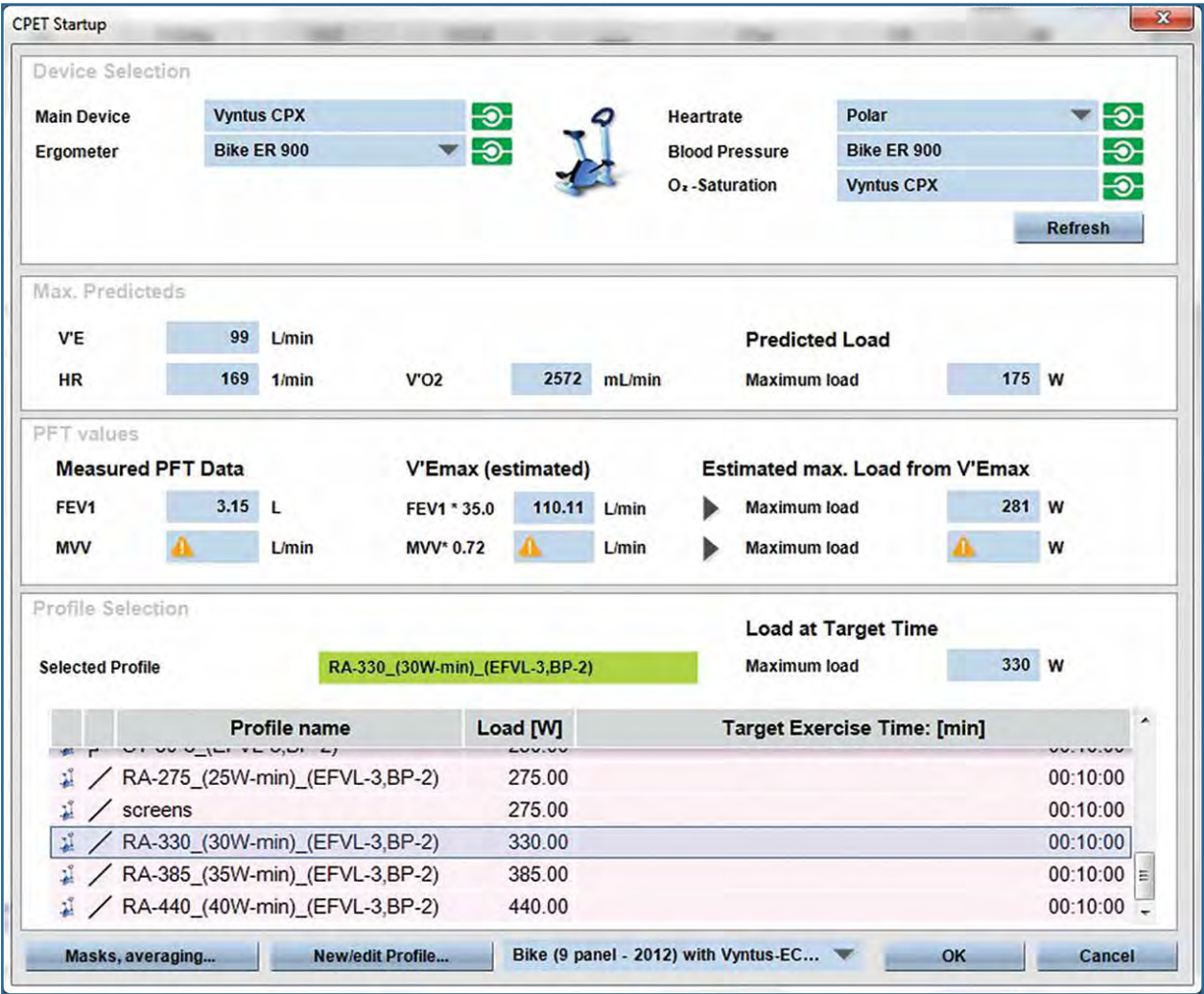
Pain-free, pre-test planning

Brought to you by SentrySuite™ Software

In CPET testing, pre-test set-up can be detailed and time-consuming. SentrySuite™ provides easy to use tools for pre-exercise decision making. In addition, questionnaires, both standard and customizable, are available to capture relevant patient information (such as smoking history, St. Georges Respiratory questionnaire, COVID-19 triage, etc.) and are seamlessly integrated into the SentrySuite™ software. Everything is right where you need it, when you need it most.

CPET Start-Up Menu: All Pre-Exercise Decisions on a Single Screen.

- Color-coded hardware connection check
- Provides suggested target load and automated protocol selection, based on measured PFT values and max predicted values
- Choose preferred test layouts, mask size, and breath averaging from start-up screen

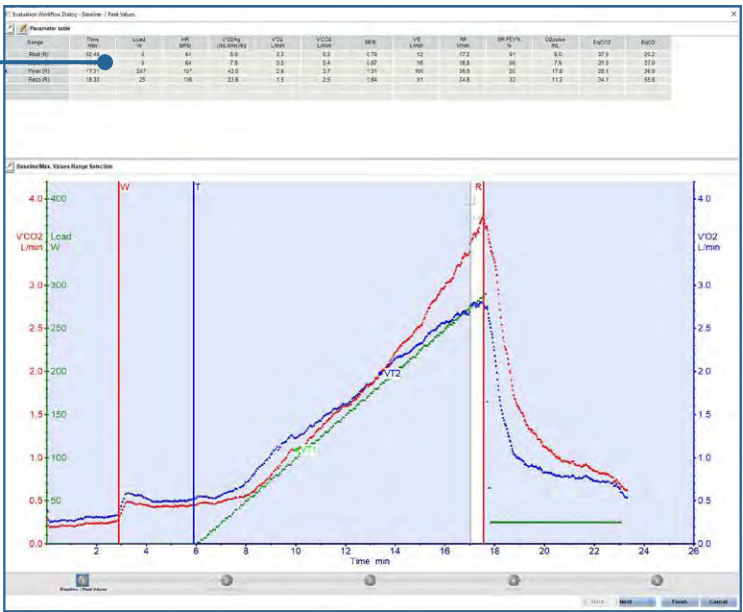
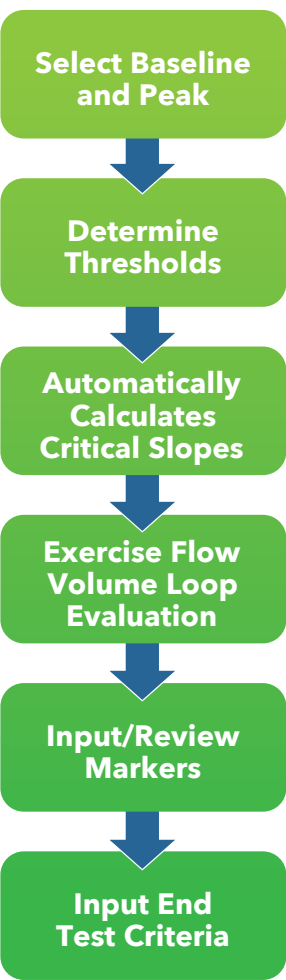


Intuitive, Step-by-Step Evaluation

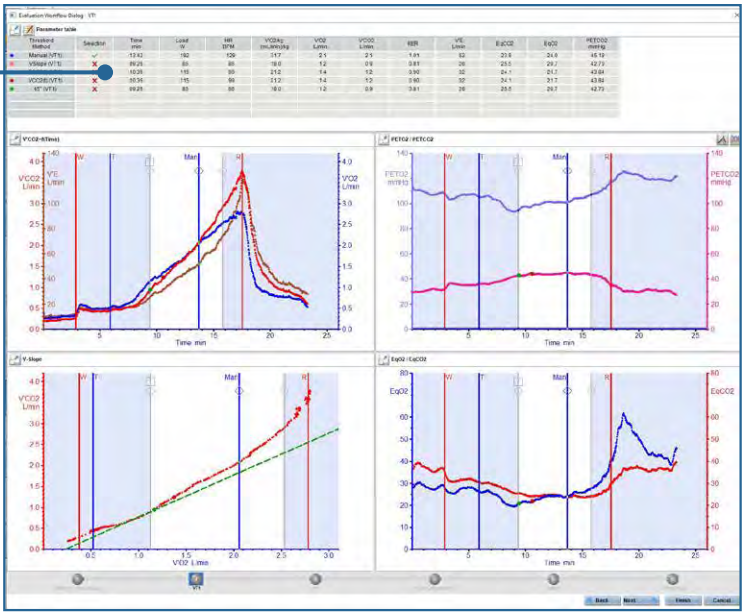
With standardized steps, clinicians gain efficiency and decision support

Using step-by-step guidance, SentrySuite™ makes post-test evaluation simple and systematic. Now, evaluation and interpretation can be standardized, reducing time to result. And, workflows can be configured for individual users in relation to desired tasks and sequences. For experts, SentrySuite™ also provides a easy post-test way to enter offline blood gases for automatic P(A-a) O₂ and VD/VT calculation.

Workflow Steps



Accept SentrySuite's automatic selection of baseline and peak data, or manually over-ride with simple click and drag.



Side-by-side graphics with plausibility checks makes viewing ventilatory thresholds accurate and easy. Adjust the range of interest in one graph; all subsequent graphs and tabular values adjust automatically.

Focused and integrated

Complete data review and reporting is both intuitive and automated

- 1

Choose breath or time averaging
- 2

Quickly view, print or store reports
- 3

Quickly search for stored markers like e.g. lactate or blood gases
- 4

Quick patient-data access
- 5

Tabs to quickly switch to view different graphics
- 6

Tabular data with adjustable filtering/averaging
- 7

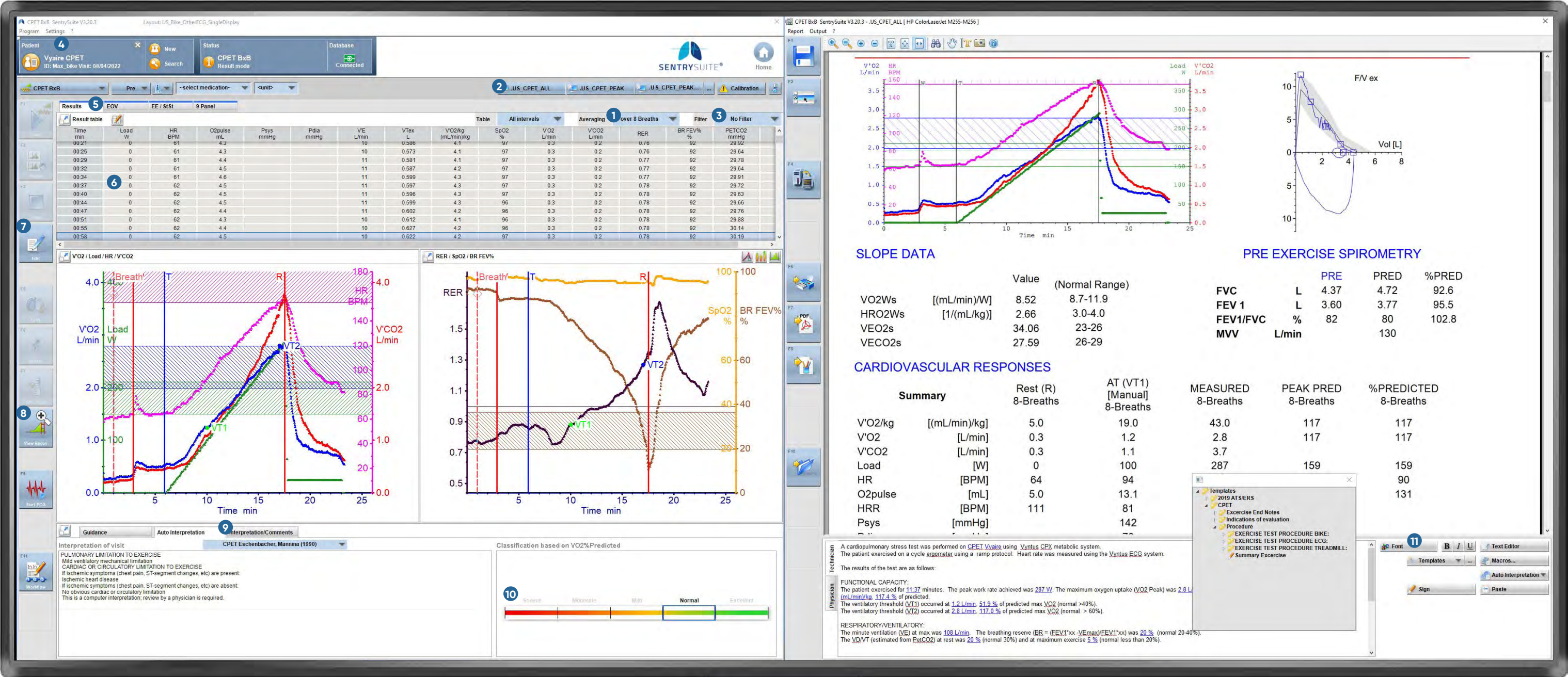
Start edit mode for thresholds, slopes, ranges or exercise flow volume loops (EFVL)
- 8

View/Hide recovery data from graphical displays
- 9

Comments/interpretation tool with user-definable templates and automated CPET interpretation included
- 10

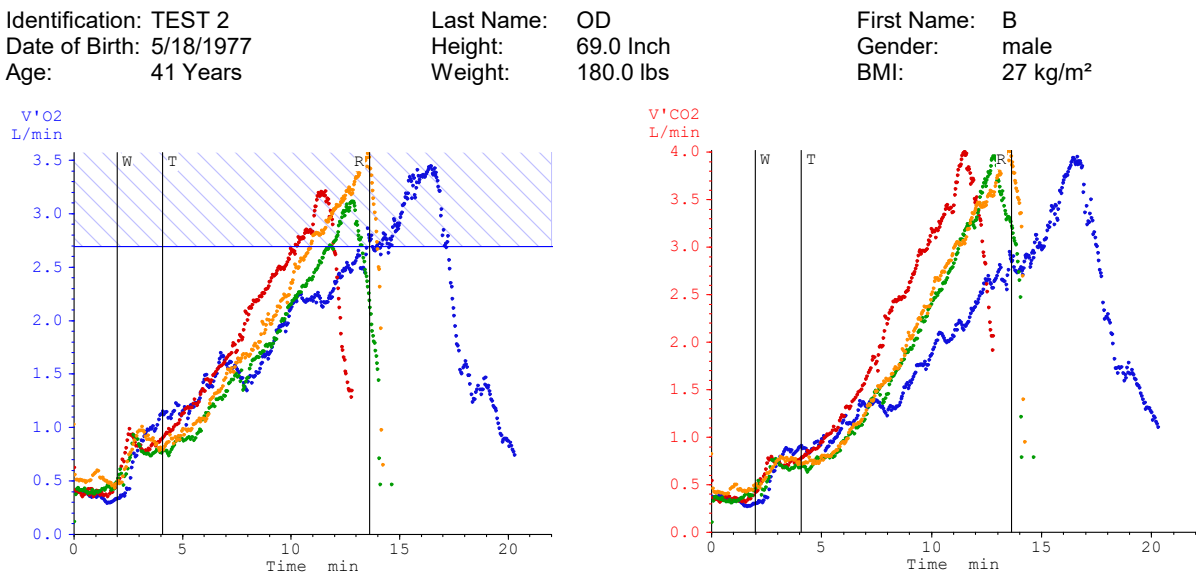
Color-coded classification bar based on V'O₂ Max predicted¹
- 11

Post-test Templates and Macros



Trending patient data over time is key

CARDIOPULMONARY EXERCISE DATA COMPARISON- CURRENT TO PREVIOUS



	NOW	PREV	% DIFF	PREV -1	PREV -2	PREV -3	PREV -4	PREV -5
Measurement date	10/25/18	10/25/18		03/29/16	12/16/15			
Age	41 Years	38 Years		38 Years	38 Years			
SLOPES								
VECO2s	23.08	31.16	-25.9	31.65	27.48			
VO2Ws (mL/min)/W	5.63	10.71	-47.4	10.02	10.40			
SPIROMETRY								
FVC L	4.81	4.81	0.0	5.52	5.46			
FEV1 L	3.85	3.85	0.0	4.24	4.23			
MVV L/min				203	189			
PEAK CARDIOVASCULAR RESPONSES								
V'O2 L/min	3.4	3.2	6.3	3.1	3.5			
V'O2/kg (mL/min)/kg	41.8	34.5	21.1	33.0	37.7			
V'CO2 L/min	3.9	4.0	-2.3	3.9	4.0			
Load W	415	284	46.1	292	312			
HR BPM	171	162	5.6	171	181			
O2pulse mL	20.0	19.8	0.7	17.9	19.3			
Psys mmHg	150	187	-19.8	195	140			
Pdia mmHg	80	92	-13.1	87	86			
PEAK VENTILATORY RESPONSES								
V'E L/min	94	123	-23.6	124	132			
VTex L	3.286	3.924	-16.3	3.677	3.709			
RR 1/min	28.7	31.5	-8.8	33.7	35.5			
BR FEV% %	39	8	359.4	16	11			
PEAK GAS EXCHANGE RESPONSES								
RER	1.14	1.24	-8.0	1.26	1.14			
SpO2 %	93	98	-5.1	100	100			
EqCO2	23.2	30.1	-22.8	31.0	31.8			
EqO2	26.4	37.3	-29.0	39.1	36.3			
PETCO2 mmHg	47.13	36.17	30.3	35.89	35.17			
PETO2 mmHg	103.31	117.10	-11.8	117.50	117.59			

SentrySuite™ Software

Eye-catching results available on every page

Of course SentrySuite™ provides all standard reports, including the 9-panel graph. But where it really shines is its capacity to redefine how you visually present your data in more powerful and meaningful ways. Three great examples include our Exercise Flow Volume Loops, CPET comparison graph, and Dynamic Predicted Ranges.

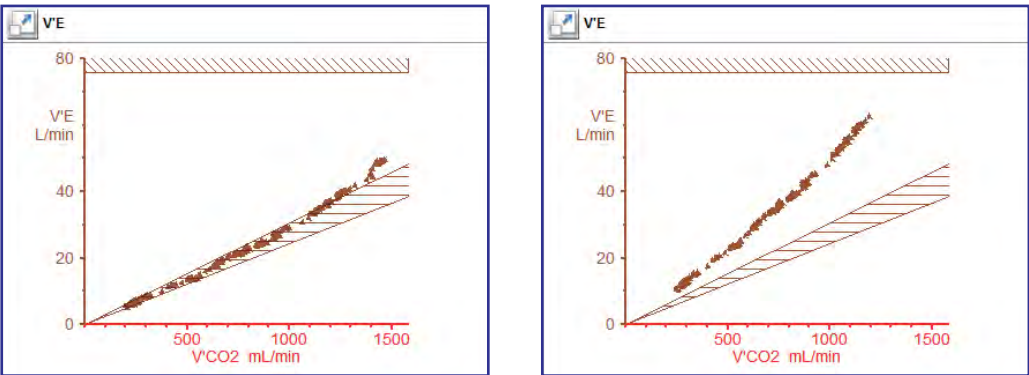


Exercise Flow Volume Loops

Quickly see dynamic airway hyperinflation and flow limitation by trending Flow/Volume and EILV/EELV throughout exercise.

Dynamic Predicted Ranges

Continually monitor VE/VC₂ data during test.



Graph 1 shows a normal response to exercise and graph 2 shows an elevated response to exercise

Wide-ranging data viewing

Easy selection of steady state data

The ability to easily and quickly trend data is equally important when performing ongoing, routine QA protocols to assess the health status of your device. Here we are showing a Bio-QC bike 3-stage steady state protocol that is standard to SentrySuite™ profiles.



Resting Energy Expenditure

Simple mask methodology; no new hardware

Easily view when patient reaches steady-state conditions

Select up to four areas of steady-state showing data averages with coefficient of variation (CV)

Steady State Qualitative Analysis

Perform monthly as part of routine QA plan

3 simple bike steps under AT or use any published treadmill QA protocol

Average last 2 minutes of each step and compare to published norms

Expand your capability

Combine Vyntus™ CPX with other devices*



GE CardioSoft™ ECG



Ergoselect 600P recumbent bike



Tango® blood pressure monitor



Treadmill



Polar® Bluetooth® interface



VIAsprint® cycle ergometer with/ without BP

*Third-party distributed devices.



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