# VYNTUS™ QUICK GUIDE

JAEGER

## CPET BxB with CardioSoft™ ECG Workflow Quick Guide

Vyntus™ ONE, Vyntus™ CPX

### A. Volume Calibration of Digital Volume Transducer (DVT) Sensor *(prior to each test)*

1. Click on "**Calibration**" from the Home Page and then "**Volume Calibration**"




2. **For Vyntus™ CPX:** Perform **Automatic** Volume Calibration
   a. Connect the DVT to the Automatic Calibration Port WITH the gas sample Twin Tube connected to the DVT




   b. Click <**F1**> "**Start**" to start the "Automatic Volume Calibration"

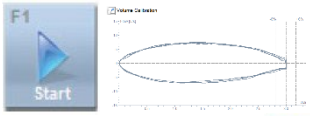



**For Vyntus™ ONE (optional for Vyntus™ CPX):** Perform **Manual** Volume Calibration

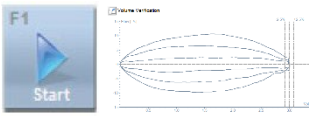
   i. For Vyntus™ ONE: Select device to be calibrated: Vyntus™ ONE CPET
   ii. Connect 3L syringe to DVT with sample line connected



   iii. Click <**F1**> "**Start**" and perform 3-5 strokes all at a medium flow rate (calibration)




   iv. Click <**F1**> "**Start**", select "**Verification**", and perform at least 3 strokes at varying flow rates between 0.5 – 12 L/s




3. After Volume Calibration/ Verification is completed, confirm successful with "Calibration result" graphic = "OK"

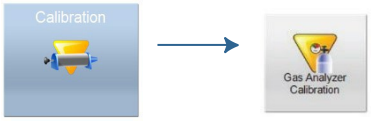



4. Click the "**Home**" button to return to the Home Page




### B. Gas Analyzer Calibration for $O_2$ and $CO_2$ *(prior to each test)*

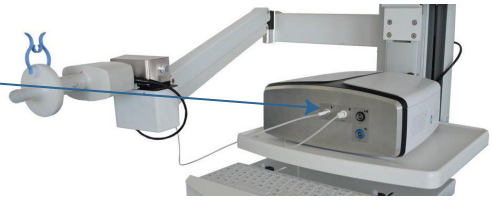
1. Click on "**Calibration**" from the Home Page and then "**Gas Analyzer Calibration**"




2. **For Vyntus™ CPX:** Connect the DVT to the Automatic Calibration Port on the Vyntus™ CPX with the gas sample Twin Tube connected to the DVT

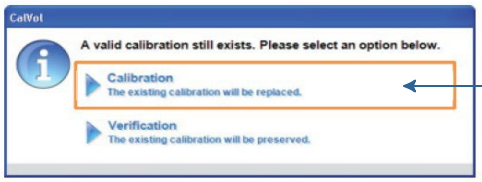


**For Vyntus™ ONE:** Select device to be calibrated: Vyntus™ ONE CPET
Connect the Sample Line to the Cal Port on the Vyntus™ ONE
*(unclip sample line from support arm if needed)*



3. Click <**F1**> "**Start**" to start the Gas Analyzer Calibration → 


4. In case the following window appears, select the option "**Calibration**"




5. After the Gas Calibration is completed, confirm successful with "Calibration result" graphic = "OK"



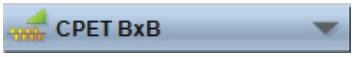

6. Click the "**Home**" button to return to the Home Page → 


**Note if performing 'High/Low $FiO_2$' Testing (VyntusĎ CPX):**

If performing High or Low $FiO_2$ exercise testing with ECG monitoring using CardioSoft,
1. Complete initial hardware setup (i.e., High/ Low $FiO_2$ kit to blender) for delivering desired $FiO_2$
2. In step #2 below, use the measurement program "CPET High/Low FiO2" (instead of 'CPET BxB') - Utilizes a layout displaying "$FiO_2$" and adjusts dead space value for Y-valve
3. Otherwise follow the same CPET BxB workflow as below

## C. Workflow CPET BxB with CardioSoftĎ ECG

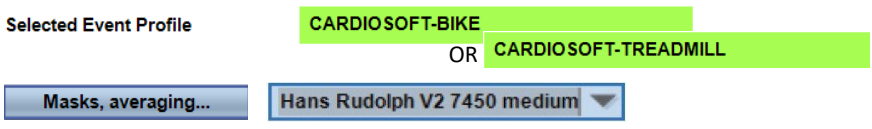
1. Prepare the patient (ECG electrodes, blood pressure, $SpO_2$, mask fitting, optional spirometry)

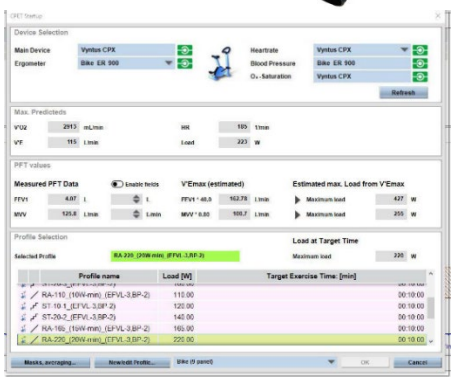
2. Select the measurement program "**CPET BxB**" → 

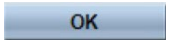

3. Place the DVT with the Sample Line/ Twin Tube anywhere (unmoving for zeroing phase) → 

4. Click <**F1**> "**Start**" to open the 'CPET Startup' window → 

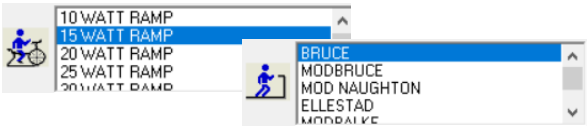
   a. Confirm successful device selection (green icons)
   b. Review 'predicted workload' data (to aid protocol selection in CardioSoft)
   c. Confirm "CardioSoft™-" **Profile** selected and choose **mask size**:



5. Click "**OK**" in the Startup window to start the CPET BxB test → 

6. On other screen, select the protocol in CardioSoft™ and click "**OK**"




7. Once SentrySuite™ advances from **Zeroing Phase** to **Check Phase**, connect the DVT to the breathing mask
   *(No data is stored during Check phase – use this time to "check" the quality of ECG and $VO_2$ data before advancing)*

8. Click "**F1**:**pretest**" in CardioSoft™ → **Resting Phase**
   *(Collect the resting values; NO cycling on bike or walking on treadmill)*




9. Click "**F1**:**pretest**" in CardioSoft™ → **Warmup Phase**
   *(Perform unloaded cycling at 0 Watts or "F9:start tmill" to start treadmill)*




10. Click "**F2:exercise**" in CardioSoft™ → **Test Phase**
    *(Load will increase [Watts or Speed + Grade] to perform exercise test)*




11. Click "**F3:recovery**" in CardioSoft™ → **Recovery Phase**
    *(Continue for 1+ min as load decreases; use "F10:STOP tmill" to stop treadmill)*




12. 

Click <**F3**> "**Stop**" in SentrySuite™ to end the gas exchange data collection
*(Step available pending program settings; SentrySuite™ transitions to Result Mode to review the CPET data)*

13. Click "**F4:test end**" in CardioSoft™ when ready to end the ECG recording




*(Consider patient condition and ECG before stopping the recording)*

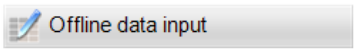
   a. Click "**YES**" to confirm "Test end?", and then click "**OK**"
   b. Close the CardioSoft™ program by clicking the following icons



14. 

Click <**F11**> "**Workflow**" in SentrySuite™ to begin a customized CPET post-test data review
Example: *(The order and methodology of post-data review will vary. To review all data, use <**F4**> "**Edit**".)*

   a. **Baseline and Peak values** – choose physiologically appropriate ranges
   b. **Threshold (AT) selection** – from SentrySuite™ threshold options VT1, VT2, VT3, or no selection
   c. Review/edit **slope calculations** – most commonly $VO_2$/Workload and $VE/VCO_2$ ('Slopes 1')
   d. View, add and/or edit **Markers** – blood pressure, RPE, blood gas, etc
      May also use '**Offline Data Input**' for missing values




   e. Add end of **test comments** and/or use **Exercise Summary** comment template

15. Select desired **CPET report** to SAVE or PRINT



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