Vyntus™ Quick Guide

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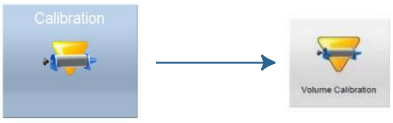
CPET BxB with ECG during Spirometry Workflow Quick Guide

Vyntus™ ONE, Vyntus™ CPX

***Note: CPET BxB 'Program Settings' must be configured properly, see note on page 2.**

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**"



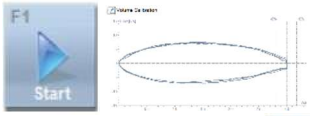
2. **For Vyntus™ CPX:** Perform **Automatic** Volume Calibration
   a. Connect the DVT to the Automatic Calibration Port WITH the gas sample Twin Tube connected to the DVT

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

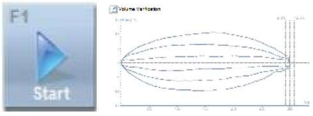
For Vyntus™ ONE (optional for Vyntus™ CPX): Perform **Manual** Volume Calibration

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

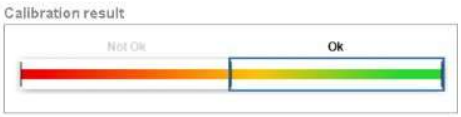
   iii. Click <**F1**> "**Start**" and perform 3-5 strokes all at a medium flow rate (calibration)



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



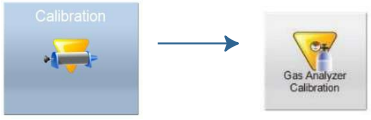
3. After Volume Calibration/ Verification is completed, confirm successful with "Calibration result" graphic = "OK"



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

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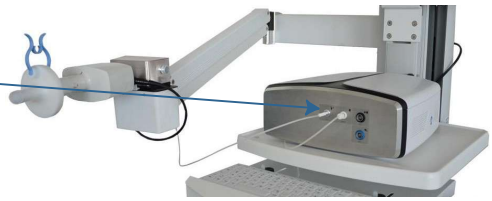
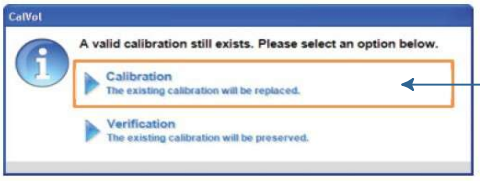
For Vyntus™ ONE: Select device to be calibrated: Vyntus™ ONE CPET
Connect the Sample Line to the Cal Port on the Vyntus™ ONE
(unclip sample line from support arm if needed)

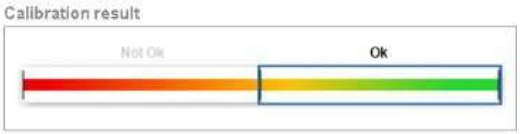


3. Click <**F1**> "**Start**" to start the Gas Analyzer Calibration

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

***Configuration Note for performing ECG during Spirometry:**

For monitoring ECG <u>during</u> pre- or post-exercise spirometry, the following setup is required:

1. Large monitor should be configured as a Dual Display monitor with 2 cables**
2. Update 'Program Settings': CPET BxB → Settings → Program Settings → ECG/Data Source → Enable setting for 'Attach to running ECG' ☑ Attach to running ECG

NOTE: If CardioSoft™ opens on display 1 (i.e., on "top" of SentrySuite™) when starting '3rd Party Stress ECG', then SentrySuite™ can be changed to open on display 2.
Go to 'Globel Settings' → 'General system' tab → 'Monitor Settings', make the below changes:

***If monitor is set as a 'single display' monitor (1 display cable) rather than a 'dual display' monitor (2 cables), contact Jaeger Technical Support for assistance.*

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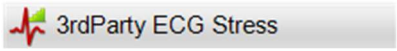
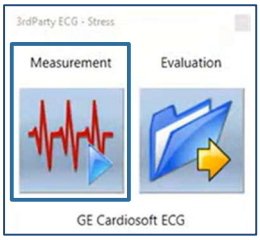
C. Start 3rd Party Stress ECG

1. Select patient in SentrySuite™ (and prepare the patient with ECG electrodes & blood pressure cuff)
2. Select the measurement program "**3rd Party Stress ECG**" → 

3. The following dialog box opens. → 

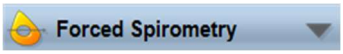
   Select the "**Measurement**" icon.

   - Cardiosoft ECG will then launch automatically
   - Patient demographics transferred

4. On other screen, select the protocol in CardioSoft and click "**OK**" → 

5. Click "**F1**:**pretest**" in CardioSoft → **Baseline Phase** → 

D. Perform Pre-Exercise Spirometry

1. Select the measurement program "**Spirometry**", → 

   and perform forced spirometry measurements (see separate quick guide)

2. If desired, select the measurement program "**MVV**" and perform MVV measurement → 

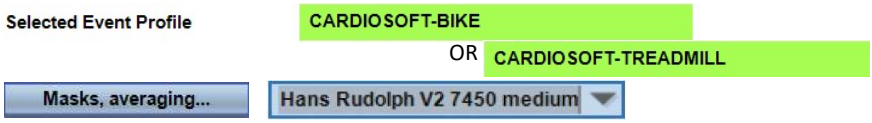
   (see separate quick guide)

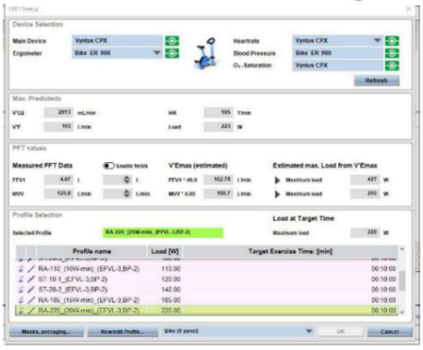
E. Workflow CPET BxB with CardioSoft ECG

1. Fit the patient with the mask & SpO2
2. Select the measurement program "**CPET BxB**"' → 

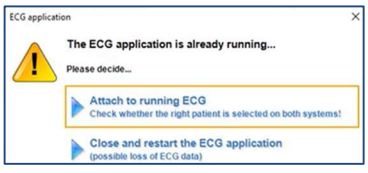
3. Place the DVT with the Sample Line/ Twin Tube anywhere (unmoving for zeroing phase) → 
4. Click <**F1**> "**Start**" to open the 'CPET Startup' window → 

   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. Select "**Attach to running ECG"** → 

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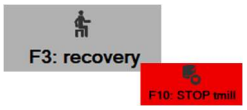
7. Once SentrySuite™ advances from **Zeroing Phase** to **Check Phase**, connect the DVT to the breathing mask
   (No data is stored during Check Phase – use this time to "check" the quality of ECG and VO2 data before advancing)

8. Click "**Start ECG data exchange"** to begin **Resting Phase** in SentrySuite™ →
   (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
Note: For Post-Exercise spirometry, select "Spirometry" from Measurement dropdown; Add 'Post' level.)

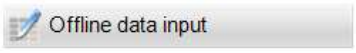
13. When ready, click "**F4:test end**" in CardioSoft to end the ECG recording →
    (Consider patient condition and ECG before stopping the recording)

    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 below: *(The order and methodology of 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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