VYNTUS™ QUICK GUIDE

JAEGER

CPET BxB with Vyntus™ ECG Workflow Quick Guide

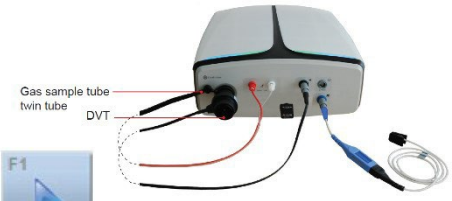
Vyntus™ ONE, Vyntus™ CPX

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"

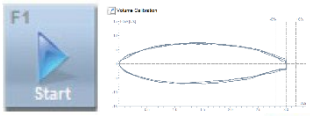


For Vyntus™ ONE (optional for Vyntus™ CPX): Perform **Manual** Volume Calibration

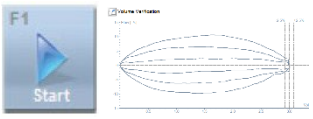
   i. For Vyntus™ ONE: Select device to be calibrated: Vyntus™ ONE CPET
   ii. Connect 3L syringe to DVT with sample line connected



   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"

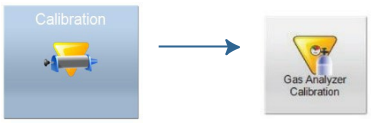


4. Click the "**Home**" button to return to the Home Page



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

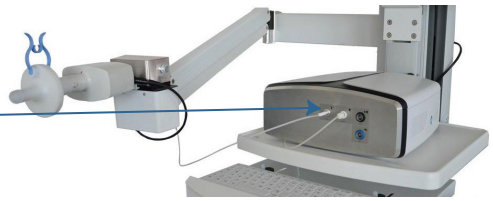
1. Click on "**Calibration**" from the Home Page and then "**Gas Analyzer Calibration**"



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

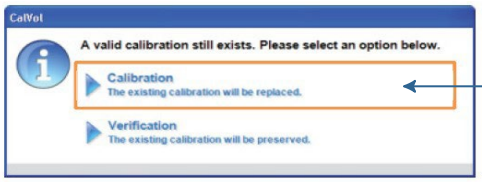


For Vyntus™ ONE: Select device to be calibrated: Vyntus™ ONE CPET
Connect the Sample Line to the Cal Port on the Vyntus™ ONE
(unclip sample line from support arm if needed)



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"

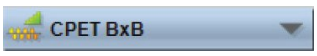


6. Click the "**Home**" button to return to the Home Page → 

Note about using CPET BxB program for 'Non-ECG' Testing

For performing gas exchange testing without ECG monitoring,
1. Configure 'Program Settings': CPET BxB → Program →Program Settings → Local Configuration → ECG/Data Source → ECG Device → select "No ECG Device" (Note: Close and re-open CPET BxB)
2. 'CPET Startup': Choose appropriate Event Profile and select non-ECG layout if desired
3. Use CPET BxB workflow buttons (page 2) to advance through testing protocol

C. Workflow CPET BxB with Vyntus^{D} ECG

1. Prepare the patient (ECG electrodes, blood pressure, SpO_2, mask fitting, optional spirometry)
2. Select the measurement program "**CPET BxB**" → 

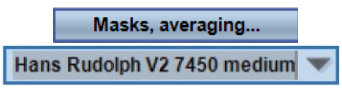
3. Place the DVT with the Sample Line/ Twin Tube anywhere (unmoving for zeroing phase)
4. Press and release button on Vyntus ECG to turn 'ON' (wait 10-20 seconds for connection)

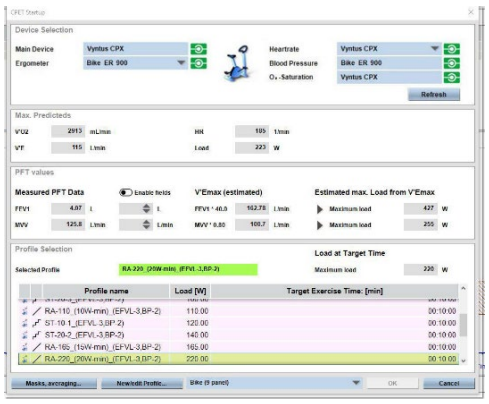


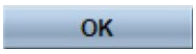
5. Click <**F1**> "**Start**" to open the 'CPET Startup' window → 

   a. Confirm successful device selection (green icons)
      Check battery status (replace if needed)
   b. Review 'predicted workload' data to aid protocol selection
   c. Select the desired exercise **Profile** (protocol) and **mask size**:

Event Profile name
10 WATT RAMP
15 WATT RAMP
20 WATT RAMP





6. Click "**OK**" in the 'CPET Startup' window to confirm setup → 

7. Click "**OK**" in the popup window to start the CPET BxB test → 

8. 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)

9. Click <**F1**> "**Next Phase**" to go to the **Resting Phase** → 

(Collect the resting values; NO cycling on bike or walking on treadmill)

10. Click <**F1**> "**Next Phase**" to go to the **Warmup Phase** → 

(Perform unloaded cycling at 0 Watts or start treadmill)

11. Click <**F1**> "**Next Phase**" to go to the **Testing Phase** → 

(Load will increase [Watts or Speed + Grade] to perform exercise test)

12. Click <**F1**> "**Next Phase**" to go to the **Recovery Phase** → 

(Continue for 1+ min as load decreases)

13. Click <**F3**> "**Stop**" to end the measurement → 

(SentrySuite™ transitions to Result Mode to review the CPET data)

14. Click <**F11**> "**Workflow**" 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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