VYNTUS™ QUICK GUIDE

JAEGER

SentrySuite™ Quality Management (SeS QM) Workflow Quick Guide
ITGV Simulator for FRC_{PL} Quality Control

Vyntus™ BODY

Note: A Volume Verification and Box Calibration (with the ITGV simulator outside of the cabin) needs to be performed prior to a mechanical quality control measurement using the ITGV simulator.

1. Open the ITGV simulator, remove the lid and locate the power cord inside.
   (Note: there are two possible ITGV simulator lids)



Larger Lid



Smaller Lid

2. Use appropriate country power cord; may need adapter or alternate cord.



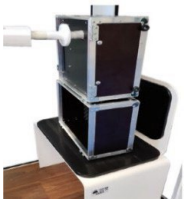


USA version



International

3. Place the ITGV simulator on the bench making sure it is at the correct height to connect to the Ultrasonic Sensor (USS).
   (Note: Adjust simulator if needed to achieve the correct height)

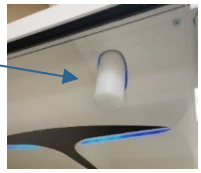


Configuration with larger lid



Configuration with smaller lid

4. Unscrew the white cover of the service access port located at the left inner side of the cabin ceiling.

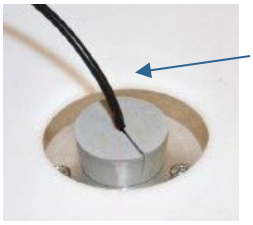




Service access port with cover remove

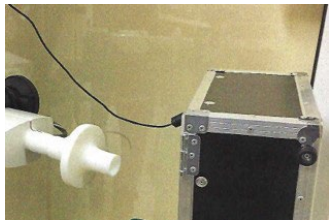
5. Place the power cable into the slotted rubber plug and thread the power cable from the outside (top) through the service access port and connect the cable with the ITGV simulator.





Thread cable through service port





6. Ensure the service access port is securely closed by the rubber plug. The service access port must be sealed. (Tip: If needed, hand soap or sanitizer may be used to help the cable in the plug or the plug in the port to ensure a tight seal.)

7. With the power supply outside the body box, connect cable to wall outlet. Connect the other end of cable inside the body box to the front of simulator.

   (Note: Listen to ensure simulator is powered 'ON' and running; a toggle power switch is present on some simulator models, press toggle switch if necessary)

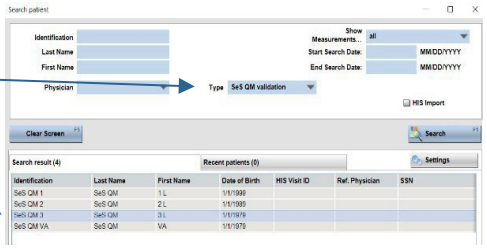


8. Connect the ITGV simulator to the USS module with USS MicroGard™ adapter and a round MicroGard™ IIC filter (as pictured).

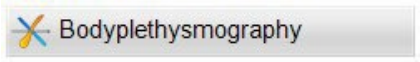
PERFORMING QUALITY CONTROL MEASUREMENT WITH ITGV SIMULATOR

1. Select the mechanical model "patient" for quality control testing:
   - Perform Search under "**SeS QM validation**" patient Type
   - Select the "**SeS QM 3L**" patient AND select "**Add New Visit**"

   (Note: this will make all necessary adjustments to prepare for an ITGV simulator measurement)

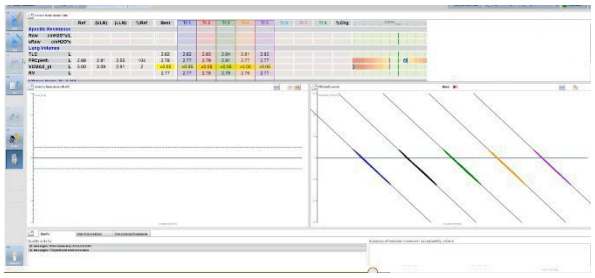


2. Select the measurement program "**Bodyplethysmography**" (Either from the Home Page or a Measurement program)



3. Click <**F7**> to activate the door magnets. Push the door closed so that all the magnets engage (simulator must be plugged in/ powered 'ON' and running)

4. Click <**F2**> to start the ITGV measurement for FRC_{PL} (Alternate method: Use <**F1**> to start)
   (Note: Airway resistance is not measured with the ITGV simulator; FRC_{PL} measurement is collected during the next step when the shutter is closed.)



5. Click <**F1**> to initiate the shutter closure. The FRC_{PL} measurement will be taken

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

7. To start another FRC_{PL} measurement, click <**F2**> and then <**F1**> to close shutter. Collect 5 measurements
   Tip: You can press <F1> in succession to collect multiple FRC_{PL} measurements before pressing <F3>.

8. **EXPECTED RESULTS: $FRC_{PL} \approx 2.68$** Liters, between 2.60 (LLN) – 2.76 (ULN)
   - FRC_{PL} is the only parameter being evaluated. ('Ref', 'LLN' and 'ULN' come from 'SES_QM_3L(ATS)2026' predicted set)
   - If FRC_{PL} results are outside limits of normal, check for secure connections: USS to simulator, FPV housing clamp, rubber plug seal at service port, and door closure. Collect additional measurements.

     Further troubleshooting: Remove the ITGV simulator and re-calibrate the body box paying attention to the Tau Verification (time constant) which validates a proper leak; if the time constant is too low, search for a leak

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