

TITLE: HEPA Filter Leak Testing For DTVR Rooms

SOP Number: D-FAC-PRO-001

Revision Number: 0

Effective Date: 08 Aug 2015

Section II: Calibration Process

1. Warm-up
 - 1.1. Connect the photometer power cord into the photometer and plug into the power reel connection.
 - 1.2. Rotate valve lever to **CLEAR** position, then press **METER RANGE** button to 100.
 - 1.3. Press **POWER SWITCH** to on position. Allow at least **(5)** minutes for warm-up time.
2. Calibration Settings
 - 2.1. With the **VALVE** in the **CLEAR** position, press **METER RANGE** to **10** and turn the **0 DIAL** fully clockwise.
 - 2.2. **PRESS** and **HOLD** the **DOP** or **PAO** button. Then rotate the **100 DIAL** to obtain **100** on the meter **(10%)**.
 - 2.3. Set **METER RANGE** to **.1** and rotate the **0 DIAL** to obtain **0** on the meter.
3. Alarm
 - 3.1. With **VALVE** at **CLEAR** position, press **ALARM SWITCH** which activates the alarm circuitry and press the **METER RANGE** to **0.1**.
 - 3.2. Rotate the **100 DIAL** to obtain the desired **ALARM SETTING (0.01)**.
4. Testing Set-Up
 - 4.1. Connect the probe to the photometer down-stream port.
5. Use the three step platform ladder, remove the rubber stopper from the up-stream hose that coincides with the HEPA filter to be tested. Attach the black Teflon sample tube from the aerosol generator in the bottom of the case to the previously designated up-stream hose. Use masking tape to ensure the seal between the two hoses and prevent leakage. Upon verification of the HEPA filter integrity, flip the switch to turn the aerosol generator off, remove the masking tape and detach the two hoses. Replace the rubber stopper and move to the next up-stream hose to resume testing.

Section III: Startup & Testing

1. Complete calibration process.
 - 1.1. Start aerosol generator located at the right side of the bottom case. Open cap and flip switch.
 - 1.2. While observing the photometer scale, turn the silver sample lever to the upstream setting.
2. The scale must read 80 to 100% upstream concentration to move to next step.

