TRACE Analytics...



BEFORE YOU BEGIN

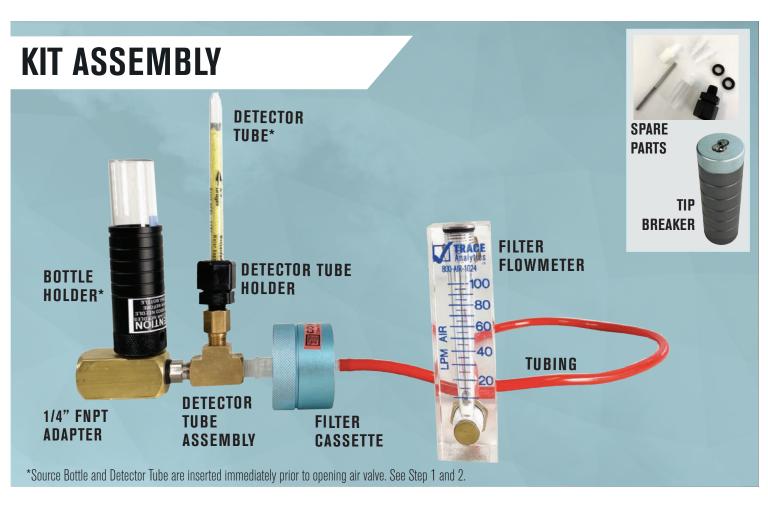
1. If sampling from compressor, run for 5-10 minutes. Open fill valve slightly and purge air for 5 minutes. Proceed with preparation of sampling kit during this time.

2. Inspect brass parts and remove any oil or dirt. Ensure threads are not damaged. *If wire mesh falls out of brass adapter, contact Trace Analytics for replacement.*

3. Remove barrel from base of bottle holder to inspect needles. Replace needle(s) if broken, bent, loose, or needle points are damaged. Replace o-ring on bottle holder if dirty, dry, or damaged. Reassemble bottle holder. *CAUTION: Needles are sharp. Do not use solvent or alcohol on needles.* **See Section 1: Gas & Ambient Air for needle replacement.**

4. Carefully remove any glass fragments from Detector Tube Holder. If Holder is disassembled or threads are damaged, replace. WARNING: if nut is removed from male connector, stainless steel grab ring and o-ring may fall out. Detector tube will not be held properly in place. Damaged or misassembled Detector Tube Holder may affect results.

*Needles and Detector Tube Holders are consumable parts and should be replaced periodicially.



KIT ASSEMBLY INSTRUCTIONS

- **1.** Connect the **DETECTOR TUBE ASSEMBLY** with reducing nipple and o-ring to the brass **1/4**" **FNPT ADAPTER**. Thread black **DETECTOR TUBE HOLDER** onto Assembly. Loosen nut.
- 2. Remove red or blue caps from the FILTER CASSETTE. Gently screw luer end of the FILTER CASSETTE onto the plastic end of the DETECTOR TUBE ASSEMBLY (do not remove the filter cassette from the blue aluminum housing)
- 3. Thread BOTTLE HOLDER to the top threaded hole on the ADAPTER
- 4. Connect brass 1/4" FNPT ADAPTER to the sampling outlet.
- 5. Insert barbed luer end of red TUBING onto FILTER CASSETTE.
- 6. Attach open end of red TUBING to FILTER FLOWMETER barb connection.
- 7. Leave upper back hole of **FLOWMETER** unobstructed. (Additional luers, o-rings, and DT holder are found in spare parts bag)

*Red or blue caps must be removed for sampling



GAS & AMBIENT AIR

1. Regulate OUTPUT pressure to 200 psi or less, or 50 LPM through the FILTER FLOWMETER.

2. Insert source bottle into bottle holder and firmly press onto needles. To avoid puncturing the blue cap, hold bottle holder at an angle with outer needle on lower side as the needles are off center. **DO NOT TWIST BOTTLE.**

Optional Ambient Sample: Remove black cap from Ambient Bottle and place bottle close to compressor intake. Recap after 1-10 minutes. *Ambient bottle cannot be used for compressed gas testing.*

- **REPLACING NEEDLES** *if damaged or loose
- 1) Unscrew Bottle Holder and slide the stainless steel needle tool onto plastic base of needle.
- 2) Turn the tool counter-clockwise to remove
- 3) Hand thread new needle into the threaded base, then slide tool onto needle to gently tighten.
- 4) Needles should be straight and firmly in place. Dispose of damaged needles in safe container



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WATER VAPOR

- 1. Remove the caps and netting from the detector tube. Insert detector tube into tip breaker, score the glass tip by rotating the tube, then angle sideways to break off tip, repeat for other side.
- 2. Immediately insert detector tube into DT holder until it bottoms out. Hand tighten the nut. ARROW MUST POINT UP.
- 3. Replace netting over tube and holder. Open fill valve slowly and adjust to 50 LPM.
 Sample for 10 minutes. A minimum of 500 liters of air is required. If you are unable to reach 50 LPM, adjust sampling time using the following chart:

 Formula for Sampling Time
 AIR VOLUME
 ELOWRATE. LPM
- 4. Watch tube for duration of test. If reddish-brown stain reaches 200 mark before sampling is complete, write exact time the stain reached the 200 mark on the data sheet. Do not remove the detector tube from set up.
- **5.** Once air is flowing, if possible, feel for gas flow out of Bottle Holder side port. If air is not flowing through, sample may result in an inadequate air exchange. Retesting will be required.





FINAL STEPS

- 1. Smell the air flowing from the side port of the Bottle Holder. Mark ODOR as either None, Slight, or Pronounced on the datasheet.
- 2. After 10 minutes, while air is still flowing, remove source bottle.
- 3. STOP AIR FLOW. Remove detector tube and immediately determine numerical value for length of reddish/brown stain on detector tube (ignore gray discoloration) and record on section 7 of data sheet.
- 4. Remove AirCheck Kit from fill whip, remove filter cassette from kit.
- 5. Replace caps on filter cassette and netting on source bottle and detector tube.
- 6. Fill out data sheet completely and return filter cassette, source bottle, detector tube, and data sheet to Trace.

IRAGE Aute	Hamilton Pool Road Taxas 78738 R-1024 or 512-263-000 Service Team@ArChec	• Fax	Routine System AirCheck** sc 512.263.0002 "F RUSH REQUESTED, CALL WIT TRACKING NUMBER com Data Share, BR1
Contact Information IMPORTANT	CAREFULLY PRINT, FIL	LOUT	COMPLETELY AND RETURN A DATA SHEET WITH EACH SAMPLE SET.
Customer ID 229	Customer Name A		
Primary Mr. David Wydra	E-mail di		
Alternate Ms. Sandy Frey	E-mail st		soe net Phone (547) 259-3000 et sent to the sensor below (fill in information).
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4 System Information		_	6 Sampled Dy and Sample Date
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Cylinder		۲	Sample Time From Fill Station (minimum of 18 min.) Time
Other ID		7	Datector Tube (CBIT data if sampling media does not include Detector Tube)
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At wed for C SCBA O Artine Respirator O SCUBA O Other			Source Bottle Number (blue label) 6 or 7 digits
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Sample Phase C Below Filer Change C After Come Hours Lawet Temp			Sample Shelf Life: Once a sample is taken, it must be received by our laboratory within 60 days. Component Media Shelf Life: Sampling media must be used or returned for free replacement within 2 years of abioment date. See sociation date or whom box.
(Lowest temp that low pressure breathing air may	be exposed to during the y	uar)	
For TRACE Use Only Receiving 10			Receiver's Initials
			www.AirCheckLab.com

THANK YOU FOR TESTING WITH **TRACE** Analytics

Have questions? Contact us:

Phone 512-263-0000 ext 3 Email ServiceTeam@AirCheckLab.com Website AirCheckLab.com