

AIRCHECK*KITK902C INSTRUCTIONS



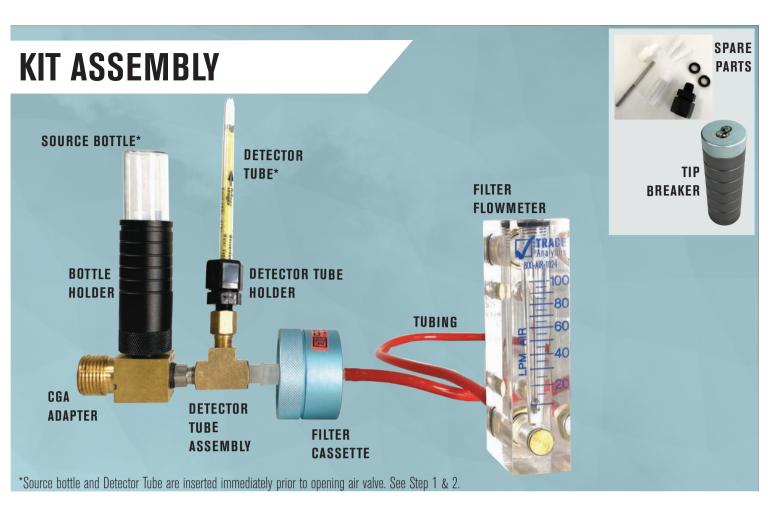
TESTING FOR GAS, WATER, OIL MIST AND PARTICULATES
High Pressure > 1000 PSI

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 **CGA ADAPTER**. Thread black DT Holder onto Assembly. Loosen nut on **DETECTOR TUBE HOLDER**.
- 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 CGA ADAPTER to the fill hose or 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 1500 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





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
 - *If sampling inside fill station, remove Filter Flowmeter. Make sure pressure is regulated to no more than 500psi.

FLOWRATE, LPM = SAMPLE TIME, MIN

- 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.

	Routine System AirCheck**
TRACE 15768 Hamilton Pool Road Analytics Superinter Strategy Strat	com TRACKING NUMBER Data Sheet - RB1
1 Contact Information MPORTANT: CAREFULLY PRINT, FILL OUT COMPLETELY AND RETURN A DATA SHEET WITH EACH SAMPLE SET.	
Customer ID 239 Customer Name Air One Primary Mr. David Wydra E-esal dwydra Alternate Mr. Sandy Frey E-esal sfrey@	@sos.net Phone (847) 289-9000
Please fill in the circle to the left if you'd like the Al-Chack: Report sent to the person below (fill in information). Additional E-exal	
2 Rash Analysis Request Rush REQUESTED, \$125 extra, initial Here Sprintains, Lam substiting Same Cay Analysis & Reporting for an add \$100 per sample. CALL CUST. \$529005 of EXPLORED SAME SEQUESTED, \$125 extra, initial Here Sprintains SAME SEQUESTED SAME SAME SAME SAME SAME SAME SAME SAME	
3 Purchase Order Information (if applicable)	5 Customer Comments (use back if needed)
If a purchase order number is required by your company, please affach it to this date aftest and write the PO Number in the apace provided here. PO Number	
4 System Information	6 Sampled By and Sample Date
Sampled For Testing O 45 Days O Monthly O Startup	I attest that all information provided on this datashed is truthful and accurate to the best of my
Testing SEDuys Olfordity Statup Scheduli 90 Duys Other Verification 120 Days Quarterly Weekly Annual Random Sample Bismothly Semi-Annual	Incoeledge. Submitted of this air sample authorizes Trace Analytics, LLC to provide services. SIGNATURES PRINT Name - Proportions the lest sample.
Ar Spec Indicate air spec below (two maximum): O DSHA 1910: 134 Cylinders O CDA Crade E - Spot Diving O DSHA 1910: 134 Compressor O CSA P-2215 psig)	Date Sample Taken WONTH Day YEAR
C) OSHA 1910 430-Com Diving C) CSA (15-2216 oxid)	7 Sample Information
O File - NFPA 1989 O CSA (-15 paig) O CGA Gaude D - 908A O Other O CGA Gaude D2 - ext 908A	Is this sample a Retent taken within 30 days of a failed text? Yes No A Source Bottle, Filter, and Data Sheet MUST BE RETURNED for a complete analysis.
Maia	Filter Number (md or green tabel)
Model	6 or 7 digits
Serial No	Flowrate From Fill Station Pressure Sangie Time From Fill Station
Cylinder	(ninimum of 10 min.)
Other ID	Detector Tube (OMIT data if sampling media does not include Detector Tube)
Pressure CHigh Pressure (>1,000 psig) Low Pressure (<1,000 psig)	Tube Reading DT Minutes Sampled
Air used for SCBA Air fine Respirator SCUBA Other	Source Bottle Number (blue bibel) 6 or 7 digits
Purification	Ambient Sottle Number (white label) 5 or 7 digits
Sampled From Compressor Source Other Standard Not Provided Comp. & Strange O Breather Box	Oder is REQUISED. MASK ONLY DISC. None Sight () Pronounced It's determined by solflag the pirtons the side port of the Sottle Holder. PLEASE NOTE: NO EXCEPTIONS Sample Shelf-Life: Once a sample is taken. It must be received by our laboratory.
Sample Phase Selfore Filter Change After Filter Change Flourine Comp. Hours Lowest Temp Selfore Filter Change	sample shell lier. Uncle sample is seen, it must be received by our approachy within 60 days. Component Media Shelf Life: Sampling media must be used or returned for free replacement within 2 years of shipment date. See expiration date on return box.
(Lowest temp that low pressure breathing air may be exposed to during the year) For TRACE Use Only	
Receiving LD. Receiver's Initials	
We Do Cos Thing - Test Compressed Air www.AirCheckLab.com	



THANK YOU FOR TESTING WITH TRACE Analytics

Have questions? Contact us:

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Email ServiceTeam@AirCheckLab.com

Website AirCheckLab.com