TRACE Analytics

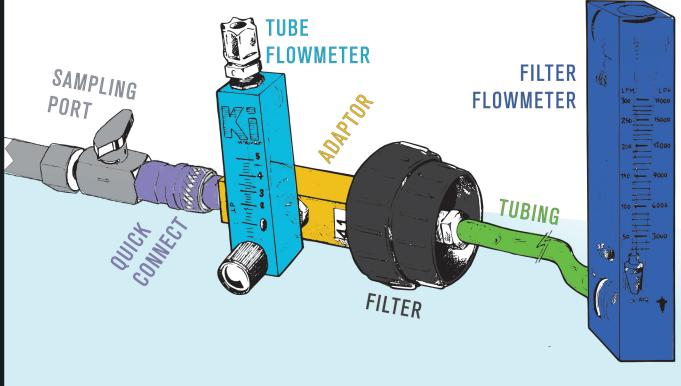
AIRCHECK KIT[™] K810 INSTRUCTIONS

BEFORE YOU BEGIN

- 1. Set up sampling port with control valve to easily adjust airflow.
- Determine pressure at sampling point to select correct adaptor: UNR NPT (20-50 psi) or 41 NPT (51-125 psi).
- 3. Purge sampling port for at least 10 minutes before attaching equipment.
- 4. Attach quick connect coupler to sampling port (if provided).
- 5. For multiple sampling points, clean NPT adaptors and fittings between samples.
- 6. Scan QR code above to view short, easy-to-follow video instructions for preparation, step by step directions, and cleaning procedures.



KIT ASSEMBLY



ASSEMBLY INSTRUCTIONS

- 1. Attach ADAPTOR to TUBE FLOWMETER
- 2. Connect FILTER to ADAPTOR on the labeled side
- 3. Connect TUBING to FILTER on the side labeled "flowmeter"
- 4. Attach FILTER FLOWMETER to TUBING
- 5. Connect assembled kit to SAMPLING PORT

PARTICLES & OIL AEROSOL

Determine your runtime using Sampling Guidelines table below. If sampling for oil aerosol only, see FAQs for sampling parameters.
Set timer 1 for runtime.

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- **3.** Begin airflow. If unable to achieve recommended flowrate, use equation in table below to determine new sampling time.
- **4.** Record test information on Data Sheet, Section 5A.
- **5.** Proceed to next step. **Filter remains in place until all steps are completed.** Record total test time on data sheet.

PARTICLE & OIL AEROSOL SAMPLING GUIDELINES						
Sample Type	ISO 8573 Purity Class	Min. Air Volume	Minutes	LPM		
BASELINE, PRO, DIAG.	CLASS 1	12,000	120	100		
BASELINE, PRO, DIAG.	CLASS 2	1,200	24	50		
VALUE	CLASS 3-5	500	10	50		
BASIC	CLASS 6-7	250	5	50		
Filter must be returned for analysis. Return all void or unused filter holders. DO NOT THROW AWAY. Air Volume, Liters Flowrate, L/min (LPM) = Sampling Time, Min						



WATER VAPOR

- **1.** Determine appropriate detector tube and runtime according to table. Set timer 2.
- **2.** Open tube flowmeter control valve and purge flowmeter for 30 seconds. Close valve.
- **3.** Remove protective caps. Use tip breaker to safely break **both** tips. Immediately insert detector tube into black tube fitting on small flowmeter. The arrow must point up. Tighten tube fitting and cover with netting.
- **4.** Open tube flowmeter control valve to 4 LPM and start timer 2.
- **5.** Watch tube for duration of sampling time. If reddish-brown stain reaches upper limit mark before sampling time is complete, close flowmeter control valve, remove tube and replace caps and netting. Write exact time stain reached upper limit on the data sheet. If this occurred with the 5a/-P detector tube, repeat test with 20a/-P detector tube.
- **6.** When runtime is complete, close flowmeter control valve clockwise. Immediately remove tube, determine numerical value for length of stain, record test information on Data Sheet, Section 5B.

5/a-P tube20/a-P tubePurity ClassCLASS 2, 3*CLASS 4, 5, 6Orger TypeDesiccant DryeRefrigerated DryeAir Volume5020Runtime12.5 min5 minLPM44Scale5 - 20035 - 500BubbscriptionImage: State	WATER VAPOR Sampling guidelines					
Dryer TypeDesiccant DryerRefrigerated DryerAir Volume5020Runtime12.5 min5 minLPM44Scale5 - 20035 - 500Tube DescriptionImage: Contract of the part		5/a-P tube	20/a-P tube			
Air Volume 50 20 Runtime 12.5 min 5 min LPM 4 4 Scale 5 - 200 35 - 500 Tube Description Image: Comparison of the second	Purity Class	CLASS 2, 3*	CLASS 4, 5, 6			
Runtime 12.5 min 5 min LPM 4 4 Scale 5 - 200 35 - 500 Tube Description Image: Comparison of the second s	Dryer Type	Desiccant Dryer	Refrigerated Dryer			
LPM 4 4 Scale 5 - 200 35 - 500 Tube Description Bethow Street of S	Air Volume	50	20			
Scale 5 - 200 35 - 500 Tube Description Image: Control of the second secon	Runtime	12.5 min	5 min			
Tube Description Bath No. 51-P Upper Lim Bath No. 51-P Upper Lim	LPM	4	4			
Description Batch No. Sla-P Upper Limit	Scale	5 - 200	35 - 500			
0 0		8 병 병 방 방 5/a-P Upper Limit				



- **1.** Determine your runtime using table below and set timer 3.
- **2.** Purge flowmeter for 30 seconds. Close control valve, then attach white tube fitting to top of 4" tube flowmeter.
- **3.** Remove protective caps from black charcoal tube. Use tip breaker to safely break **both** tips.
- **4.** Immediately insert tube into tube fitting with arrow pointing up. Tighten tube fitting and reapply netting.
- **5.** Open black flowmeter valve to 4 LPM and run sample as per table.
- **6.** When runtime is complete, close flowmeter control valve clockwise. Immediately remove tube and recap. Record test information on Data Sheet, Section 5C.
- 7. Break tips from BLANK charcoal tube. Expose to ambient air for 30 seconds. Recap, record blank tube number on all Data Sheets with same daily batch in Section 6 and return to designated box. Do not expose blank to any compressed air.

OIL VAPOR SAMPLING GUIDELINES						
Sample Type	ISO 8573 Purity Class	Min. Air Volume	Minutes	LPM		
BASELINE, PRO, DIAG.	CLASS 1	400	100	4		
BASELINE, PRO, DIAG.	CLASS 2	40	10	4		
OTHER	CLASS 3-4	40	10	4		



⚠ Oil vapor tests not required for BASIC, VALUE or CLASS 3-4 sample types.

FINAL STEP

- **1.** When runtime is complete for all steps, shut off air at point of use. Stop timer 1, record total time for filter test on Data Sheet, Section A.
- 2. Remove quick connect coupler (if provided) from sampling port, disassemble kit, recap 47mm blue filter.
- **3.** Replace caps and netting. Return filter, detector tube(s), charcoal tubes and completed data sheet to pre-addressed return box. Make sure Data Sheet is complete and legible.

