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Routine AirCheck™ Datasheet

*IF RUSH REQUESTED, CALL WITH
 TRACKING NUMBER
 DS-BA-B1

1 Contact Information **IMPORTANT: CAREFULLY PRINT, FILL OUT COMPLETELY AND RETURN A DATA SHEET WITH EACH SAMPLE SET.**

| | | |
|--------------------|----------------------|----------------|
| Customer ID | Customer Name | Country |
| Primary | E-mail | Phone |
| Alternate | E-mail | Phone |

Please fill in the circle to the left if you'd like the AirCheck Report sent to the person below (fill in information).

Additional E-mail

2 Rush Analysis Request

RUSH REQUESTED, \$125 extra, Initial Here By initialing, I am authorizing Same Day* Analysis & Reporting for an addtl \$125 per sample. **CALL CUST. SERVICE @ EXT 3 TO SCHEDULE ~ Samples must arrive by 10:30 a.m.** Contact Us for Holiday Scheduling

3 Purchase Order Information (if applicable) **5 Customer Comments (use back if needed)**

If a purchase order number is required by your company, please attach it to this data sheet and write the PO Number in the space provided here.

PO Number

4 System Information Wrong Wrong Wrong Correct

Sampled For

Testing Schedule

45 Days Monthly Startup
 90 Days Other Verification
 120 Days Quarterly Weekly
 Annual Random Sample
 Bimonthly Semi-Annual

Air Spec Indicate air spec below (two maximum):

OSHA 1910.134-Cylinders CSA (>2216 psig)
 OSHA 1910.134-Compressor CSA (15-2216 psig)
 OSHA 1910.430-Com.Diving CSA (<15 psig)
 Fire - NFPA 1989 Other _____
 CGA Grade D -SCBA
 CGA Grade D2 -not SCBA
 CGA Grade E - Sport Diving

Make

Model

Serial No

Cylinder

Other ID

Pressure High Pressure (>1,000 psig)
 Low Pressure (≤1,000 psig)

Air used for SCBA Airline Respirator
 SCUBA Other

Purification Molecular Sieve/Desiccant No Purification
 Refrigerated Dryer Unknown
 No Dryer

Sampled From Compressor Source Other
 Stored Air Outlet Not Provided
 Comp. & Storage Breather Box

Sample Phase Before Filter Change After Filter Change Routine

Comp. Hours **Lowest Temp** °F °C
 (Lowest temp that low pressure breathing air may be exposed to during the year)

6 Sampled By and Sample Date

I attest that all information provided on this datasheet is truthful and accurate to the best of my knowledge. Submittal of this air sample authorizes Trace Analytics, LLC to provide services.

SIGNATURE _____ **PRINT Name (Person taking the test sample)** _____

Date Sample Taken
 MONTH DAY YEAR

7 Sample Information

Is this sample a Retest taken within 30 days of a failed test? Yes No

A Source Bottle, Filter, and Data Sheet **MUST BE RETURNED** for a complete analysis.

Filter Number (red or green label) 6 or 7 digits

Flowrate (liters per minute)

Sample Time (minimum of 10 min.)

Detector Tube (OMIT data if sampling media does not include Detector Tube)

Tube Reading (0 - 200) **DT Minutes Sampled**

Source Bottle Number (blue label) 6 or 7 digits

Ambient Bottle Number (white label) 6 or 7 digits

Odor is REQUIRED. MARK ONLY ONE. None/Slight Pronounced
 It's determined by sniffing the air from the side port of the Bottle Holder.

PLEASE NOTE - NO EXCEPTIONS

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 shipment date. See expiration date on return box.

For TRACE Use Only

Receiving I.D. _____ **Receiver's Initials** _____

We Do One Thing – Test Compressed Air **www.AirCheckLab.com**

Sampling Notes for Water Vapor Detector Tube

- 1: Break BOTH tips of detector tube before inserting. Arrow on tube points away from Fitting. 50 LPM for 10 minutes.
- 2: The DT is filled with a chemical reagent that reacts to the presence of water by changing color from yellow to a grayish/reddish brown. (ignore gray color)

A minimum of 500 liters of air is required for sampling. If you are unable to achieve 50 LPM, adjust sampling time using the following formula:

$$\frac{500 \text{ LITERS}}{\text{FLOWRATE, LPM}} = \text{SAMPLE TIME, MIN}$$

Detector Tube Results are based on a 10 minute sample at 50 LPM.

Sampling for longer or shorter time periods will provide different results than shown on chart. Identify the farthest reddish-brown color change in the tube (ignore gray coloration). Locate where the DT reading and Flowrate (LPM) intersect to determine approximate result in F*. If results do not meet your air specification limits, take corrective actions, and repeat sample. If both samples are returned at the same time, the 2nd sample will be at no charge. For troubleshooting tips, go to: <https://rb.gy/gixijy>



| Flowrate Reading (LPM) | Det. Tube Reading, mg/m ³ | 2.5 | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 125 | 175 | 200 |
|------------------------|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 60 | -93 | -84 | -75 | -66 | -60 | -56 | -52 | -49 | -47 | -45 | -43 | -42 | -38 | -33 | -31 |
| 55 | -92 | -83 | -74 | -65 | -58 | -54 | -51 | -48 | -45 | -44 | -42 | -40 | -36 | -31 | -29 | |
| 50 | -90 | -81 | -72 | -62 | -56 | -52 | -49 | -46 | -44 | -42 | -40 | -38 | -34 | -29 | -27 | |
| 45 | -88 | -79 | -70 | -60 | -54 | -50 | -47 | -44 | -41 | -39 | -38 | -36 | -32 | -26 | -24 | |
| 40 | -86 | -77 | -68 | -58 | -52 | -47 | -44 | -41 | -39 | -36 | -35 | -33 | -29 | -23 | -21 | |

| | |
|------|------|
| PASS | FAIL |
|------|------|

Above area marked "Pass" is for high pressure air used for SCBA, with a -65°F limit per CGA Grade L/NFPA
 Visit the AirCheck Academy for complete range of flow rates and further details.

If detector tube reading is higher than required, see the following checklist or visit the Aircheck Academy: Breathing Air. www.AirCheckLab.com

| | |
|--------------------------------------|---|
| Purification / Depressurized filters | High ambient air temperatures (above 70°F) affect the operating life of the cartridge. Chemicals used in purification filters begin to degrade as soon as they are installed. Is it time to change the filters? |
| Manual/auto drain or priority valve | If not working properly can be source for excess water and reduce filter life. |
| Remote fill or hose reel | Long lengths (>10 ft) of hose are notorious for accumulating and retaining water. A short 1-2 minute purge WILL NOT be sufficient. It is best to take the sample from a short fill hose (5-10 ft) or directly from containment fill station. - View our resource videos online. |
| Recent hydrostat | Bottles must be properly dried after hydrostat and should be immediately pressurized with dry air. |
| Valves left open | Ambient air can easily have 10,000 - 50,000 ppm of water. Purge sufficiently to remove water accumulated from ambient air. |
| Sample taken from storage | Take sample from compressor to identify if compressor is producing dry air. If yes, storage banks may contain excess water. Drain and refill with dry air. This may require 2-3 fills to drive off water from inside cylinders. You can request extra detector tubes. |
| Detector tube cracked | Only the tips of the tube should be broken. If a crack runs down the main body of the tube, results will not be dependable. |
| Tube fitting wet | If multiple samples are taken consecutively, excess water may pool inside the fitting. Dry fitting between uses. |
| Other | Keep in mind that 1 milliliter (which is about 20 drops from an eyedropper) in a 1.7 cubic ft cylinder at 4500 psig would be 90 ppm of water vapor. It doesn't take much to fail. |

KIT UPGRADES AVAILABLE

We have redesigned our detector tube assembly and tip breaker for ease of use. Available for K901c, K901s, and K901n AirCheck Kits. Please contact our customer service team to order your upgrade today: (512) 263-0000 ext. 4.

Included in Kit Upgrade (U902):

- Brass adapter with wire mesh
- Detector tube holder
- Tip Breaker

