



# Instructions for Using SKC Series 222 Personal Air Monitors

\*\*\*These Pumps are pre-set by SGS Galson. DO NOT make any flow adjustments to these units.\*\*\*

To use these pumps follow these steps.

1. Attach the sample media as shown in "Low Flow Sampling Procedures." The Tygon tubing should be attached to the port labeled "in" as shown in Figure B.
2. After turning the pump on, observe the stroke counter and be sure it is moving to verify the pump is operational (Figure C).
3. When sampling is complete, disconnect and seal the sample tube. Also, be sure to put some type of identifier on the tube for your records.
4. Record the final stroke counter reading and calculate the total air volume collected (Figure D)



**Calibration Sheet**  
**Figure D**

Laboratory Pump Calibration Data (for 222-Series Pumps)      PREP. # \_\_\_\_\_ PSY #####      Page 1 of 1

| Pump Calibration Record: |             |                                | Calibrated Stroke Factor (mL/COUNT)<br>Calibrated by: Galson<br>A | COUNTER Starting Number<br>B | COUNTER Ending Number<br>C | Total Number of Pump Pulses (C minus B)<br>D | Final Air Volume (mLs) (A X D)/1000<br>E | *Post Sampling Verification Performed by: FOR LAB USE ONLY |
|--------------------------|-------------|--------------------------------|---|------------------------------|----------------------------|--|--|--|
| Date                     | Pump Number | Actual Flow Rate Setting (LPM) |   |                              |                            |  |  |  |
| EXAMPLE                  |             | 0.065                          | 0.455   | 555000                       | 555600                     | 600  | 273                                      |  |
|                          |             |                                |   |                              |                            |  |  |  |
|                          |             |                                |   |                              |                            |  |  |  |

This area is filled out by SGS Galson Laboratories

Record number from the stroke counter here on calibration form when sampling is complete

Calculate the total air volume collected by multiplying the pump's stroke factor by the number pulses performed during the sampling period

Calculate the number of pulses performed during the sampling period by subtracting the initial counter reading from the final counter reading