

# Sensidyne/Kitagawa Hot Air Probe

Part No. 7013602

For Models AP-1S & AP-20S Sampling Pumps

## Background

Detector tubes typically have a temperature specification of 0° to 40°C (32° to 104°F), and sampling at temperatures above the upper limit can lead to erroneous results. The Hot Air Probe PN° 7013602 is designed to reduce the temperature of sample air drawn from a system operating at an elevated temperature such as automobile exhaust or boiler stack gases. The unit consists of a stainless steel tube with cooling fins and acts as a heat exchanger. As long as the probe's cooling fins are accessible to cool air, the hot probe will cool the sample.

## Procedure

- 1) Prepare the detector tube and pump for sampling per the instruction sheet inside the box of tubes.
- 2) Place the inlet end of the detector tube into the rubber tube connector of the hot air probe.
- 3) Place the probe inlet into the heated system and draw the sample by activating the pump handle.
- 4) Repeat pump strokes as necessary per tube instructions.

## Notes

- 1) For optimum accuracy, especially on single stroke samples, the probe should first be purged, by taking a stroke with a used tube in place.
- 2) If the probe exit end has become heated from prolonged use, remove the probe and allow it to cool before proceeding with further samples.
- 3) If water has collected inside the probe, remove the probe, allow the water to drain completely, and start again.

