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# Tube Data Sheet

## VOC Zeroing Tube

**No. 025-2000-010**

This tube is used to purify ambient air to form a zero standard for calibrating VOC detectors in ambient background. Calibration should be performed at the same temperature, humidity and flow as the measurement. To connect to a ppbRAE or MiniRAE 2000, use Inlet Tube Adapter p/n 025-3002-000 according to the instructions on the reverse side. See Technical Notes 150, 172 and 178 for more details on use and how to connect other monitors.

Storage Life: 3 years

Temperature Range: -10 to +50°C

Filtering efficiency for VOCs:

Compounds	Concentration (ppbv)	Apparent Reading (ppbv)^
Methane	10000	10000*
Ethylene	100000	100000*
Propane	100000	0
Butane	10000	0
Isobutylene	100000	0
Butadiene	10000	0
n-Hexane	10000	0
Gasoline	10000	0
Toluene	10000	0
Ethanol	100000	0
Acetone	100000	0
Ethylene oxide	10000	0
Benzene	10000	0

^ Measured with ppbRAE after 2-min. exposure.

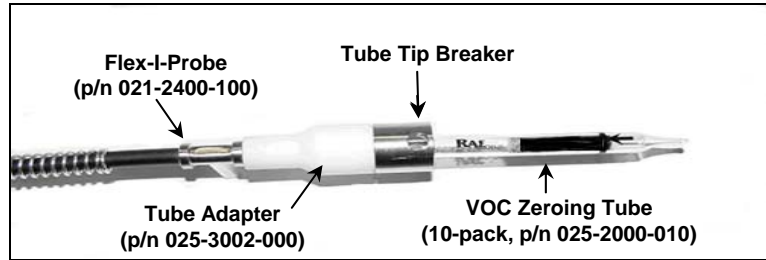
\*This tube can not remove methane, ethane or ethylene. (Methane measured with and LEL sensor.)

### Cautions:

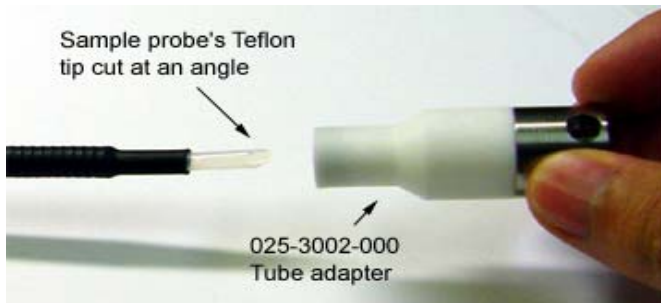
- Single use only.
- Attach tube shortly before zeroing to avoid loss of adsorption capacity.
- Will not absorb CO; partially absorbs H<sub>2</sub>S. May not absorb some other inorganic compounds.



## Connections



Connection to MiniRAE 2000 or ppbRAE



Connection to MiniRAE Plus or UltraRAE



Connection to Multi-gas monitors

## Zeroing Procedure

- 1) Insert the tip of the Flex-I-Probe or other probe into the smaller end of the Tube Adapter
- 2) Break the two ends of a VOC zeroing tube using the smaller hole on the side of the Tube Adapter
- 3) Insert one end (black arrow indicates the right direction) of the open VOC zeroing tube into the bigger end of the adapter;
- 4) Run the zeroing calibration procedure of the instrument
- 5) Discard the used VOC zeroing tube (**single use only**)

**Caution:** Dispose of spent or expired tubes according to local regulations. Possibly hazardous materials are given under the section Reaction Principle.