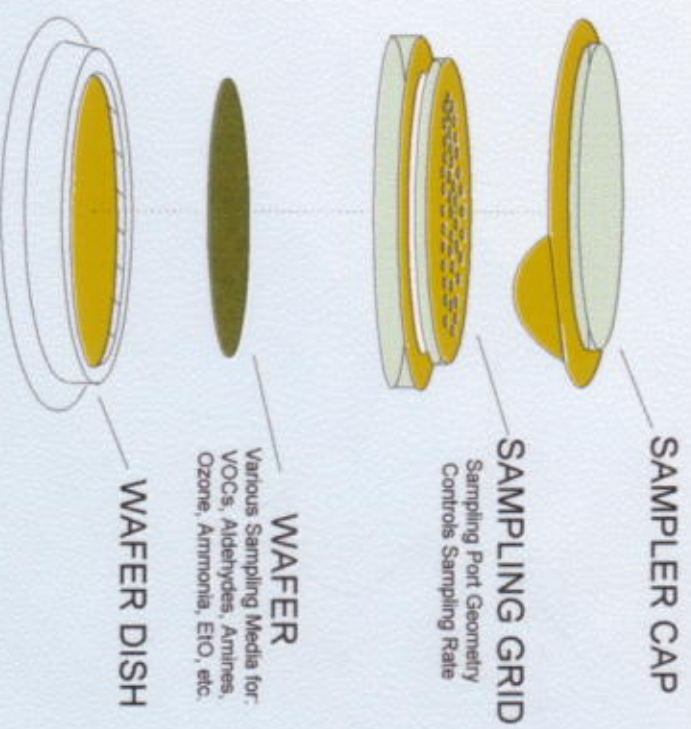


OZONE SAMPLER

ChemDisk™ Personal Sampler

- “SAMPLING GRID” provides Sampling Rate @ 12.5 ml/min
- “WAFER” consists of Glass Fiber Filter coated with NaNO_2 ($< 1 \mu\text{g NO}_3^-$)
- Sealed Foil Package Enhances Stability



SOURCES of OZONE

- HIGH-VOLTAGE LAMPS
- COPIERS & LASER PRINTERS
- OTHER HIGH-VOLTAGE EQUIPT

EFFECTS of OZONE

- HEADACHE
- SKIN IRRITATION
- DAMAGE to MUCCOUS MEMBRANES
- PULMONARY EDEMA

OZONE

Occupational Exposure Limits

- **PEL** (OSHA) = 0.1 ppm
- **TLV** (ACGIH) = 0.05 ppm (heavy work)
- **TLV** (ACGIH) = 0.08 ppm (moderate work)

Previous OZONE Sampling Methods

- POTASSIUM IODIDE Impinger
(NIOSH S8) w/ Colorimetric Analysis
- KIBRT Method (KI / KBr / NaS₂O₃)
(OSHA ID-150) w/ Colorimetric Analysis
- NaNO₂ impregnated Glass Fiber Filter
(OSHA ID-214) w/ Ion Chromatography

