



The FROG-5000™ is a portable gas chromatograph (GC) that identifies multiple target volatile organic compounds (VOC) in water, soil, and air. It detects chemicals as volatile as vinyl chloride to semi-volatile organics such as naphthalene with lab-quality results at concentrations as low as 1 ppb.

FEATURES

- **Easy to carry - weighs less than 2.2 kg.**
- **Enhanced target analysis in less than 10 minutes**
- **Optimize real-time chromatogram view on PC with Ellvin™ chromatography software**
- **9 hours of battery life**
- **Instrument innovation using Micro Electro-Mechanical Systems (MEMS)**
- **Detection of VOC analytes with ionization below 10.6eV**
- **Extremely low operating costs**

SPECIFICATIONS

Chemical Detection Range	Vinyl Chloride (MW 62.5)	2-Methyl Naphthalene (MW 142.2)
Boiling Point @ 1 atm	-13.3°C	244.7°C
Vapor Pressure @ 25°C	2980 mmHg	0.067 mmHg

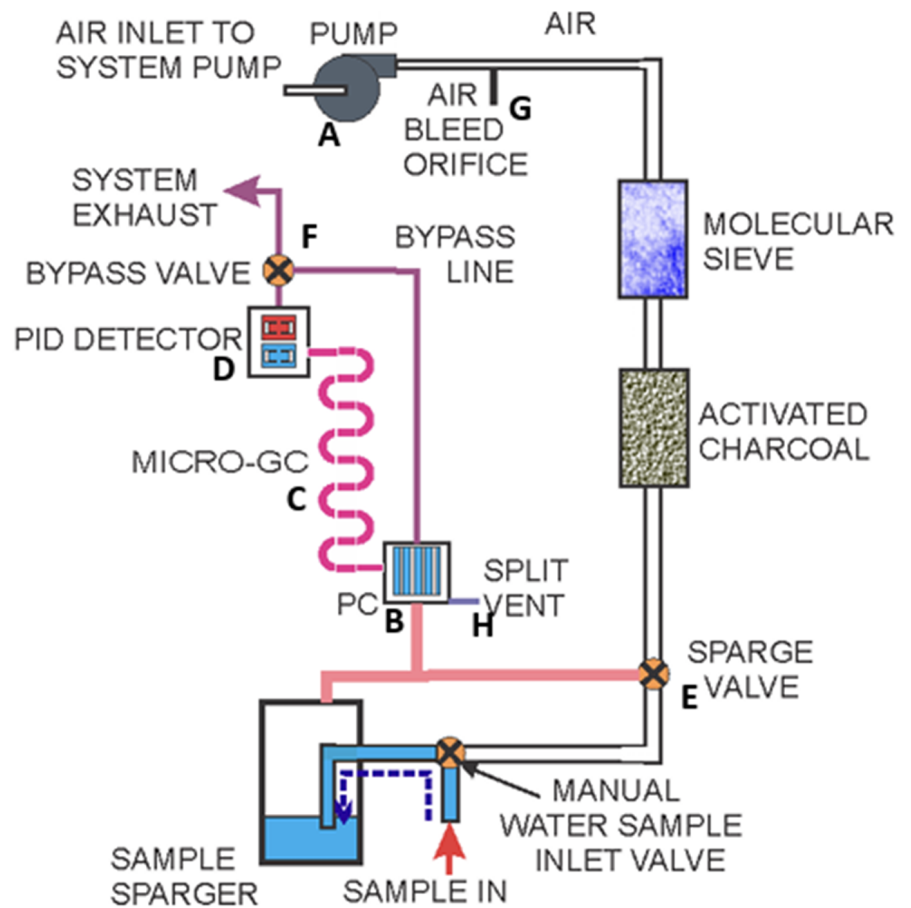
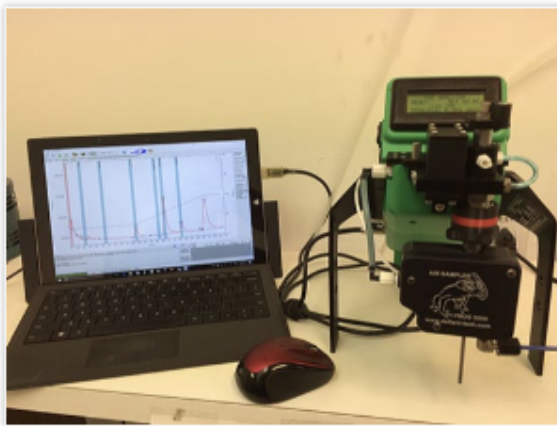
Instrument Specifications

PID Lamp	10.6 eV energy
GC Column	5.2 meter
Weight	4.8 lbs.
Dimensions	11 x 7.75 x 12 inches
Battery life	Nine hours, or external power
Interface	Standard RS-232 port



FLOW DIAGRAM

FROG-5000™



APPLICATIONS

- Environmental Remediation
- Emergency Response
- Indoor Air Quality
- Leak Detection
- Soil Vapor Extraction
- Vapor Intrusion
- Soil Characterization
- Superfund Cleanup
- Compliance Monitoring
- Process Monitoring
- Groundwater Monitoring
- Site Assessment
- Site Characterization
- Brownfield Remediation

CHEMICALS COMMONLY DETECTED

- Benzene
- Toluene
- Ethylbenzene
- Xylenes
- Vinyl Chloride
- Chlorinated Alkenes

- Trans-1, 2-Dichloroethene
- cis-1, 2-Dichloroethene
- Trichloroethene (TCE)
- Tetrachloroethene (PCE)
- Naphthalene
- Others