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

Featuring a MEMS (micro electro-mechanical systems), the FROG-5000™ has an integrated heater for temperature ramp chromatography – ramping the temperature reduces the analysis time and aids in the separation of late eluting compounds. These components combined with an internal PID identify VOCs in ambient air at concentrations lower than 0.1 part per trillion.

**FEATURES**
- The lightest portable GC - weighs less than 5 lbs.
- Enhanced target analysis in less than 10 minutes
- Optimize real-time chromatogram view on PC
- Flexible operation in lab or field
- Intuitive operational design
- Screen, confirm, and qualify with Ellvin™ chromatography software
- Instrument innovation using Micro Electro-Mechanical Systems (MEMS)
- Detection of VOC analytes with ionization below 10.6eV

**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

**CALL GEOTECH TODAY (800) 833-7958**

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue  •  Denver, Colorado  80205
(303) 320-4764  •  (800) 833-7958  •  FAX (303) 322-7242
email: sales@geotechenv.com  •  website: www.geotechenv.com
Portable Gas Chromatograph

**Defiant FROG-5000™ Portable GC**

**CHEMICALS COMMONLY DETECTED**
- Benzene
- Toluene
- Ethylbenzene
- Xylenes
- Vinyl Chloride
- Trans-1, 2-Dichloroethene
- cis-1, 2-Dichloroethene
- Trichloroethene (TCE)
- Tetrachloroethene (PCE)
- Chlorinated Alkenes
- Naphthalene
- Also many other solvents

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Chemical Detection Range</th>
<th>Vinyl Chloride (MW 62.5)</th>
<th>2-Methyl Naphthalene (MW 142.2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point @ 1 atm</td>
<td>-13.3°C</td>
<td>244.7°C</td>
</tr>
<tr>
<td>Vapor Pressure @ 25°C</td>
<td>2980 mmHg</td>
<td>0.067 mmHg</td>
</tr>
</tbody>
</table>

**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

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