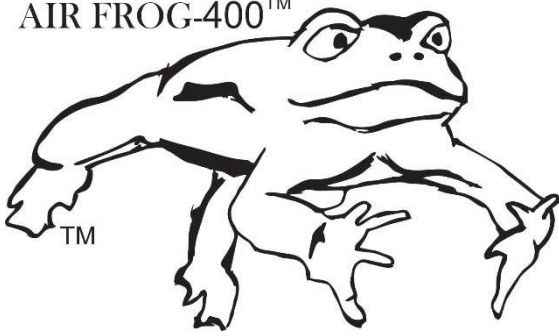


AIR FROG-400™



Portable Gas Chromatography for VOCs in Air

| 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 | 2.6 pounds (1.2 kg) | |
| Dimensions | 3.5 x 3.5 x 13 inches (9 x 9 x 33cm) | |
| Battery Duration: | Ten hours between recharge | |
| External Power | 90-240 AC, 50-60 Hz | |
| Carrier Gas | Scrubbed ambient air | |
| Interface: | Standard RS-232 port and Bluetooth® | |



Monitor Ventilation



Defiant Technologies Inc

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**Introducing the Air FROG-400™
 by Defiant Technologies, Inc.**

Publication 20201002

Hand-Held Gas Chromatography



Screening with Meaning

Fast Results – Cleaner System

Features

- ✓ Chemical identification in under 10 minutes with quantitative results
- ✓ Highly Portable – Only 2.6 lbs. (1.2kg)
- ✓ 12 - Hour Battery Life
- ✓ No specialty gases required
- ✓ Easy to program GC temperature
- ✓ Simple calibration process
- ✓ Quantitative results display on screen
- ✓ Chromatograms display real-time on computer
- ✓ Easy-to-use analysis software
- ✓ All test data stored in on-board memory

Applications:

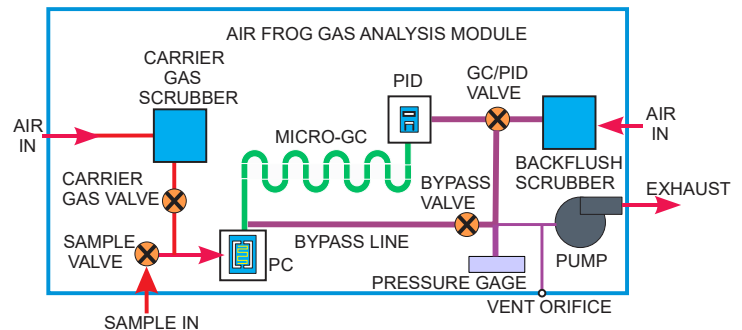
Environmental Monitoring
Industrial Hygiene
Indoor Air Quality
Vapor Intrusion
Process Monitoring
Laboratory and Field Analysis



Take the lab to the contamination source

Analyze Contaminants in the Air

- Continuous air monitoring
- EPA Method TO17 Adaptation
- No external traps or canisters
- micro-thermal desorption trap for sample collection and GC injection
- Rugged micro-GC made in steel
- GC backflush to speed analysis
- Backflush to reduce sensor fouling
- Scrubbed ambient air carrier – no compressed gases needed



Air FROG Operation

- Collect: Sample air flows over the PC trap and through the GC bypass line
- Analyze: Collected sample is desorbed from PC and injected into GC column
- Identify: GC separates analytes before they reach the PID for sequential detection
- Backflush: Flow reverses through the GC as the last analyte of interest is detected
- Cleaning: Scrubbed air flows over the PID and through the GC to reduce fouling