

Fluid Inclusion Technologies

FIT Gas Cannibal®

Constant Volume Pneumatic Gas Extractor*

"Patented concept in gas extraction for real time well site analysis that effectively eliminates inconsistent readings"

Features:

- Auto Leveling – Proactively adjusts to mud level changes before they can adversely affect observed sample gas chemistries
- Fully Automated – Continuous long term unmanned operation 24/7
- Universal Operation – Can be used in conjunction with any well site gas analyzer & flow system
- Rugged Construction – Sealed bearings, explosion proof electric or air driven agitator motor, aluminum, plated steel and stainless steel design
- Modular Design – Controller is of modular design allowing for change out in minutes as well as having components sealed thus allowing unit to be wash-down safe
- Wide Range Height Adjustment – 12" automatic mud height compensation plus 7" manual adjustment allows for a full usable range of 19"
- Small Footprint – Fits into 8" diameter opening in header tank
- International power requirements: explosion proof electric agitator motor operates on 120/240 VAC @ 50/60 Hz.



Weight:

- Extractor w/electric agitator: 41 lb.
- Mast assembly: 24 lb.
- Control box: 18 lb.
- Total: 83 lb.



Weight:

- Extractor w/air driven agitator: 28 lb.
- Mast assembly: 24 lb.
- Control box: 18 lb.
- Total: 70 lb.

*PATENT US7794527B2

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FIT
Innovations in Petroleum Risk Management

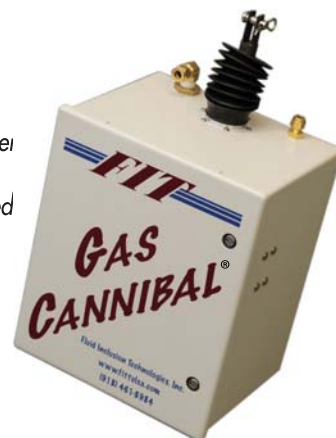
Principal Components of the Gas Cannibal®:



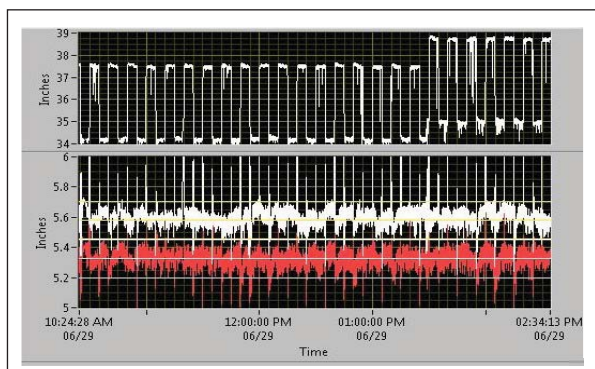
Extractor: Pictured here with air driven agitator option. Sealed bearings in extractor column. Weight: 28 lbs.

Extractor: Pictured here with explosion proof 120/240 VAC agitator motor option. Sealed bearings in motor and extractor column. Weight: 41 lbs.

Controller: Intrinsically safe, air driven. Modular design allows changeout in minutes. Control components are sealed wash-down safe. Weight: 18 lbs.



Mast: Aluminum, plated steel and stainless steel design. Weight: 24 lbs.



Test Results: Above graphs show test results during several hours of continuous operation of the pneumatic gas extractor. During the test, the mud level was changed every five minutes (raised or lowered by approximately four inches—top figure). The motion was tracked by the pneumatic control circuit causing the extractor to maintain a constant depth of insertion in the mud. The white curve in the bottom graph shows deviations in penetration depth (yellow horizontal lines are +/- 0.125 inches) Red curve shows pressure deviations in sensor system calibrated in inches of water (white horizontal lines are +/- 0.125 inches). During the test period, the extractor spent 94.5% of the time within +/- 0.125 inches of setpoint, 98.8% of the time within +/- 0.25 inches of setpoint and 99.8% of the time within +/- 0.5 inches of setpoint.