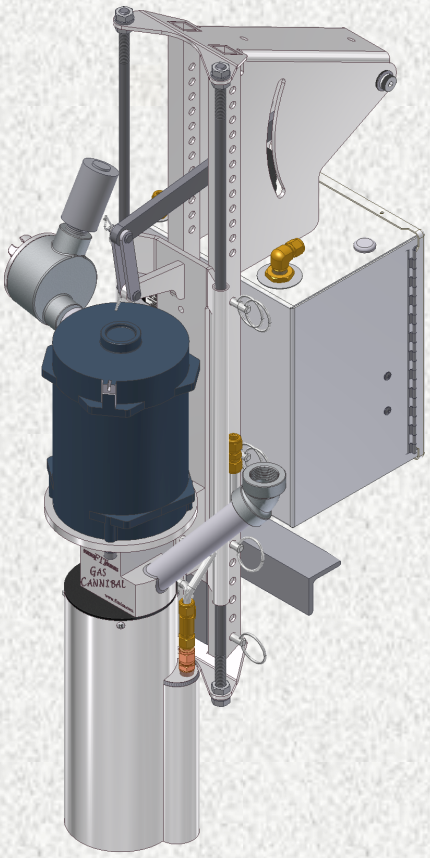
Fluid Inclusion Technologies

FIT Gas Cannibal

Constant Volume Pneumatic Gas Extractor*

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



Features:

- Auto leveling mechanism insures consistent gas extraction by continuously compensating for changes in mud height.
- Fully automated system allows long term continuous unmanned Operation 24/7.
- Explosion Proof 120/240 VAC electric or air driven agitator motor suitable for hazardous location operation.

- Sealed bearings in both extractor and agitator motor insure thousands of hours of maintenance free operation.
- Can be used in conjunction with any well site gas analyzer and flow system.
- Modular design and welded aluminum construction provide portability and long term durability.
- 12" automatic mud height compensation + 7" manual adjustment allow a full 19" of usable range.
- Small footprint: fits into a 8" diameter well.
- 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.

*US Patent 7,794,527 B2

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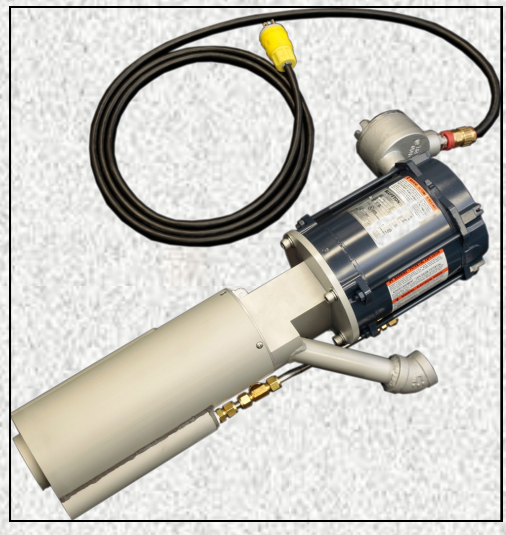
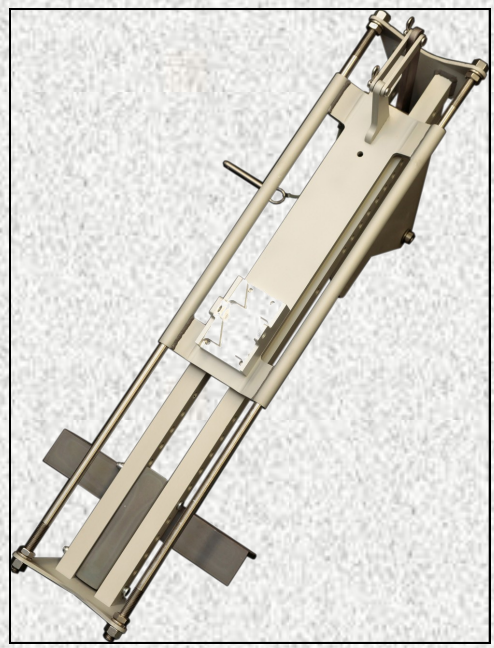
Principal Components of the *Gas Cannibal*

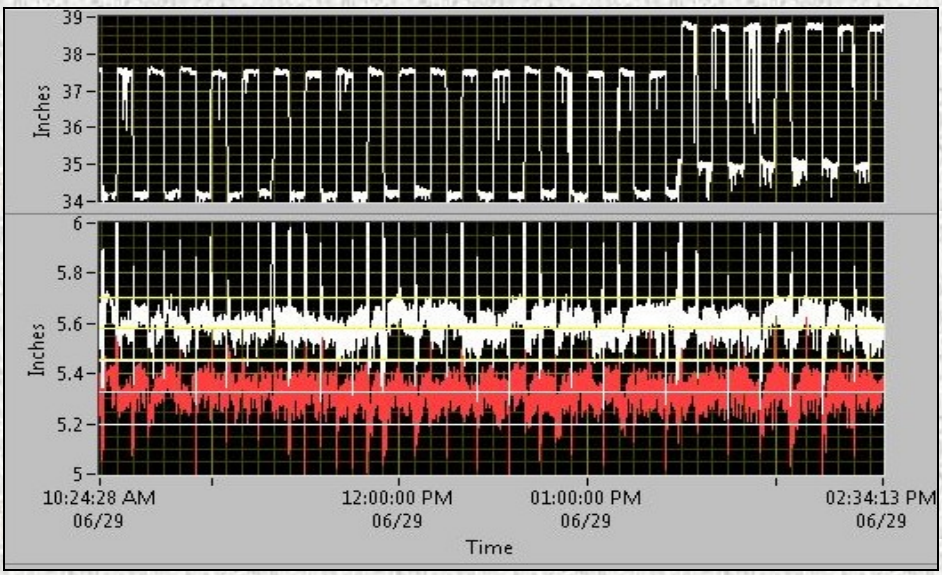


Extractor: Optional air driven or explosion proof 120/240 VAC agitator motor. Sealed bearings in motor and extractor column. Weight: *41 lb*.

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



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



Bench Test Results: Above graphs show bench 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.

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