

# Micro-ELECTRIC Catox



Heat Exchanger & Catalyst Assy

Pressure Side Dilution Air Blower

Powerful SVE Blower

## PERFORMANCE FEATURES

**Complete Control of Vacuums & Flows.** With the main SVE Blower controlled by a Variable Frequency Drive (VFD), the equipment operator has complete control over energy usage, vapor flows, vapor vacuums, and influent concentrations. Adjust the VFD dial to set your speed and fine-tune your system.

**Process Higher VOC Concentrations.** With the standard automatic dilution control system (via Dilution Air Blower), overtemping the electric heater system is more difficult, even though the high efficiency H.E. recovery system is operating.

**Simple to Operate.** Micro-ELECTRIC systems are easy to operate and have no flame.

**Low Electrical Usage:** When processing VOC concentrations >1000 ppmv, these electric systems use dramatically less electricity. Compare low operating costs to replace your Activated Carbon!

## EQUIPMENT FEATURES

SOIL-THERM offers a number of significant advantages in each of our **Micro-ELECTRIC** Catox systems.

**SVE Blower:** The standard SVE Blower is rated for 370 cfm, and vacuums up to 10" Hg. Optional blowers include 150 cfm to 20" Hg, and 370 cfm to 15" Hg. Comes with a 0-60Hz Variable Frequency Drive.

**Electric Heater:** 18-30kW, 1 or 3-phase 230VAC, with SCR heat and temperature controllers.

**Heat Exchanger:** A super efficient heat recovery heat exchanger reduces electrical consumption and minimizes your electric bill.

**Dilution Air Blower:** Enables dilution of extracted VOC's on the pressure side of the SVE blower. Enhance control of **Micro-ELECTRIC** oxidizer without losing well vacuum requirements.

**Small Footprint:** Only 4-ft x 3-ft, and 1400 #. Comes with wheels and lowering jack for wheel removal.

**Stainless Water KO:** 25-gallon water capacity with level switch controlled evpump.

**Stainless Steel KO Pump:** 1/2 hp Goulds stainless steel centrifugal evacuation pump.

## OPTIONS

- Dual Phase Extraction Blower (150 cfm, 28" Hg)
- High Vacuum SVE Blower (370 cfm, 15" Hg)
- Internet Access Telemetry & Control
- Enclosure
- LEL & Oxygen Sensor Monitors
- Single Axle Trailer



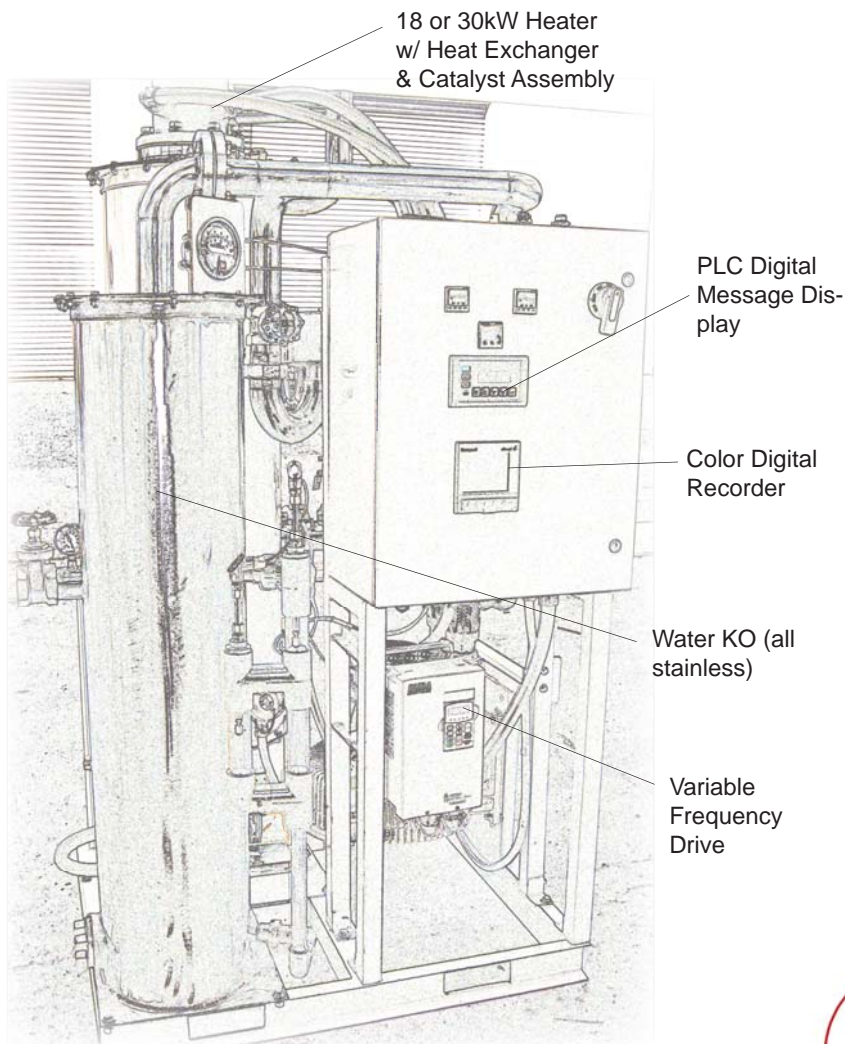
**SOIL-THERM**  
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# Micro-ELECTRIC Catox

Each Micro-ELECTRIC thermal system includes the following components 4-ft x 3-ft heavy duty skid with forklift pockets, electric heater with SCR controller, stainless steel water knockout, stainless steel vapor piping, water knockout filter element, Nema 4 electrical control box, main disconnect, regenerative SVE extraction blower (standard 8.5 hp, 220 cfm, 14" Hg), all stainless 50% steel heat exchanger, catalyst module for >98% destruction of VOC's, PLC control and digital display, hour meter, temperature and limit controller, air pressure switch, flame arrestor, and safety interlocks. Options include: pressure side dilution air blower, small single axle trailer, water knockout pump, dual phase liquid ring pump, an assortment of SVE and DPE blowers, and locking equipment enclosure.



## Equipment Specifications

|  |                         |
|--|-------------------------|
| VOC Processing:                          | to 3,000 ppmv           |
| VOC's /hour (max):                       | 15 #/hour               |
| Size (skid):                             | 4-ft x 3-ft x 13-ft (H) |
| Weight:                                  | ~1400 lbs               |
| Well Vapor Connect:                      | 2-1/2"                  |
| Catalyst:                                | 0.32 cubic feet         |
| Destruction Efficiency:                  | >99%                    |
| Heat Exchanger:                          | 50-60%                  |
| Electrical Usage (estimated) @ 250 scfm: |                         |
| @ 200 ppmv:                              | 12-16 kWh               |
| >1000 ppmv:                              | ~1 kWh or less          |

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Electrical: 230VAC, 3-phase, 60Hz, 100A  
(phase converters available)



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