

# Soil-Therm Equipment, Inc.



## Environmental Equipment & Thermal Technologies



**SOIL-THERM  
EQUIPMENT, INC.**

[www.soiltherm.com](http://www.soiltherm.com)

## Powerful Thermal Remediation Systems

SOIL-THERM EQUIPMENT, INC provides the most advanced combustion technologies for applying efficient destruction of VOC's. In our Micro-THERM and Mini-THERM products, complete control of the operation of the equipment allows the operators to ensure exact and precise control of the cleanup operations.

### Gas-Fired Systems

**Micro-THERM.** These systems offer the ultimate in space-saving design. Only 4-ft x 4-ft skid sizes, we've designed these systems to operate at high vacuums and flows using our latest Jet-THERM burner technology.

**Mini-THERM.** At only 5-ft x 5-ft, the Mini-THERM provides a very wide operating range with powerful positive displacement extraction blower. Powerful, quiet, and

**Compact-THERM.** These systems offer SVE operation up to 700 cfm, and fit onto a 6-ft x 6-ft skid, with performance that enables vacuums up to 15" Hg. All stainless piping and water knockout

**Custom Systems** SOIL-THERM started in 1990 by providing custom thermal and catalytic oxidizer systems for all kinds of environmental applications. Our experience is proven in providing the finest equipment for emissions control and environmental cleanup sites.

### All-Electric Cat-Ox Systems

**Micro, Mini, and Compact-ELECTRIC CatOx.** For sites where only electricity is available, these systems provide destruction of VOC's up to 3000 ppmv, operating on 1 or 3-phase electrical power. Very small, quiet, high vacuums, and energy efficient using an efficient heat exchanger for preheating incoming vapors.



### Standard Features:

- o Stainless Water Knockout
- o Stainless Vapor Piping
- o **Jet-THERM** stainless burner
- o SVE Blower
- o Dilution Air Valve
- o Well Vapor Valve
- o Vacuum Relief Valve
- o Main Control Panel
- o Disconnect Breaker
- o Temperature Controllers (2)
- o Color Digital Chart Recorder
- o >99% Destruction Efficiency
- o PLC Controller w/Digital Display
- o UV Flame Safety & Interlocks

### Options

- o Variable Freq. Drive
- o LEL Monitor
- o Auto-Dilution
- o Cargo or Compact Enclosures
- o Pressure Side Dilution Air Blower
- o Heat Exchanger
- o Catalyst
- o Enclosed & Open Trailers



## Combustion Technology

SOIL-THERM EQUIPMENT, INC is the leader in advancing combustion technologies for efficient cleanup of contaminated sites. By applying aerospace combustion technologies, you'll notice the difference right away: (1) lower supplemental fuel used, (2) smaller equipment sizes, (3) high destruction efficiencies, (4) low NOx, and (5) all stainless steel burner assembly.

Complete destruction of VOC's is achieved in as little as 0.1 second retention time, and directly consumes the VOC's through the flame region. The key difference is the direct flame Jet-THERM process which destroys the VOC's directly through the powerful flame with high turbulence and extreme heat. The VOC's provide energy to significantly reduce operating costs.



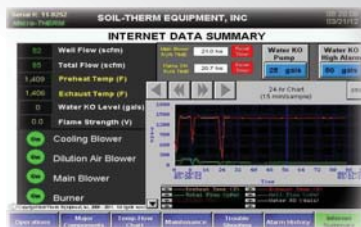
**Chlorinated Oxidizer Systems.** Chlorinated oxidizer systems include SVE blower package, thermal oxidizer with heat exchanger, quench scrubber, packed tower scrubber, water pH and conductivity controls, PLC with touchscreen and more. High destruction efficiencies, performance



**VacTruck & Tank Degassing Oxidizers.** These VAC-Truck degassing systems are installed between tanker and truck cabs for the destruction of VOC's during liquid transferring operations. The SOIL-THERM Mobile-DEGASSER allows for drawing and destruction of VOC's encountered at refineries during tank cleaning operations.



**Custom & Integrated Systems.** SOIL-THERM has extensive experience in designing and building custom systems to meet our customer's specifications. With an electric or gas-fired oxidizer, we're able to install air strippers, air sparge blowers, oil water separators, DPE extraction blowers, automated control valves, PID monitoring, and touchscreen with PLC controls for remote operation.



**Remote Monitoring & Control (ReMAC).** Monitor your Soil-Therm system anywhere from the internet. With our latest ReMAC technology, we've integrated our equipment controls to allow operator monitoring, operation, data acquisition, alarm notifications, and optimizing operation with iPhone, iPad, or laptop computer. Tremendous O&M cost savings.

**Small Size - High Performance**

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## Environmental Business Journal 2005 Technology Merit Award

“Soil-Therm Equipment, Inc. for the introduction of the Micro-THERM Ultra-Small Remediation System. Micro-THERM systems are designed to provide very small soil-vapor-extraction (SVE) and dual-phase-extraction (DPE) cleanup and thermal emissions equipment in a single system. The base skid size of the Micro-THERM system is 4x3 feet, and a typical unit weighs approximately 1,000 lbs. According to the company, it fits within the tightest locations and offers significant fuel savings compared with traditional SVE and DPE systems.

Typical SVE and DPE cleanup operations require service station operators to provide two to three parking spaces for an SVE remediation system with a thermal/catalytic oxidizer for destruction of extracted gasoline vapors. Soil-Therm optimized its Jet-THERM burner technology to significantly reduce oxidizer size and achieve greater than 99% destruction efficiencies in order to allow these systems to effectively perform cleanups in locations with substantial space restrictions. The Micro-THERM systems are complete systems that include water knockout, vapor and dilution valves, powerful SVE or DPE extraction blowers, a thermal/catalytic oxidizer, gas train, and complete flame safety and temperature controls mounted onto a single 4x3-foot skid.”

## Award Winning Remediation Equipment !



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5310 Derry Ave, Unit C/D  
Agoura Hills, CA 91301-4509  
818-706-9875 FAX 818-706-2145

[www.soiltherm.com](http://www.soiltherm.com)