

In-Situ Thermal Remediation (ISTR) with DownWell CVOC Destruction

SOIL HEATING with CVOC DESTRUCTION

For over 25 years, SOIL-THERM EQUIPMENT, INC has been designing and building the most powerful burners for remediation applications on the market. Not only are they powerful, they have proven to be energy efficient, low NOx, achieve very high destruction efficiencies, and provide reliable operation in cleaning the toughest remediation and industrial sites in the U.S.

SOIL-THERM ISTR DWR soil heating RENTAL SYSTEMS systems are the latest state-of-the-art gas fired heating technology that cleans sites faster and more cost effectively than other electric or gas heating currently on the market. By using specially designed 'forced air, direct fire' aerospace combustion principles for high temperature heating and destruction of VOC's in the burner flame zone, operators benefit from both in-situ destruction and heating the soil at the same time.

SOIL-THERM offers a wide range of customized and complete **ISTR RENTAL SYSTEMS** that allows our customers to RENT AND OPERATE the latest and most powerful TCH systems without the expense of turning your project over to a turnkey service provider. Call us to learn more.



SOIL-THERM ISTR RENTAL SYSTEMS

SOIL-THERM "DWR" Soil Heating Systems are the most powerful ISTR systems on the market. With heating capacity of our DWR-1 burner generating up to 90,000 watts of heat to a below ground sealed network of piping and well casing of up to 4 vertical wells. The **DWR-1** technology heats soil faster and cheaper using natural gas. Rental systems are now available with many options.

Integrated ISTR Rental Systems: New SOIL-THERM rental systems come configured for your site with gas-fired heaters, well casings, extension wells with below ground conveyance piping, pressure air blowers, SVE Blower Package with Water KO and corrosion resistant piping, scrubber (if required), gas fired Evaporator (if required), and advanced PLC and Touch-screen controls with remote monitoring and operation capability. Each burner assy has a built-in heat exchanger to recover heat exhaust from well heaters, and the CVOC oxidizer system is rated for >99% destruction of chlorinated compounds. No GAC needed.

Sizes: SOIL-THERM has rental systems for sites from 200 - 12,000 + cubic yard sites.

Contaminants: VOCs, SVOC, and CVOC's

Sites: Dry Cleaners, Industrial, Aerospace, DOD, Chemical

BURNER PERFORMANCE

DWR Series: 5" - 8" Well Casings

POWER: 90 - 270,000 watts per hour

TEMPERATURE: to 1900F

PRESSURE: >15 psig

AIR FLOWS: 25 - 600 scfm

HEAT to SOIL: Sealed TCH Piping

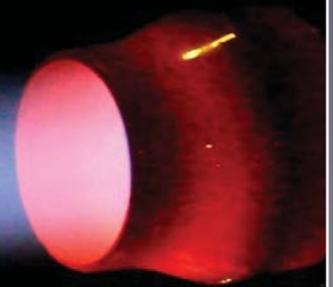
NOx: < 9 ppmv

HEAT RECOVERY: Built-In >55%

FUEL: Natural Gas or Propane

CONSTRUCTION: High Temp Alloy

DESTRUCTION: VOC's & CVOC's
>99.9% D.E.



**SOIL-THERM
EQUIPMENT, INC.**

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