

# In-Situ Thermal Remediation (ISTR) GAS-FIRED Technology

Its something you've probably never seen before - - high performance burners that look like they're straight out of an Aerospace Ramjet Engine. SOIL-THERM's DWR series burner technology has capabilities that can't be matched by any GAS-FIRED technology. Through years of combustion testing, research, and site development, SOIL-THERM's *Jet-THERM* burner technology has now been tested and proven for In-Situ Thermal Remediation (ISTR) cleanups. Our new DWR series of burners are the hottest new Thermal Conductive Heating (TCH) product on the market!

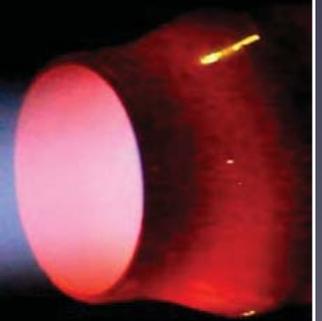
SOIL-THERM "DWR" Burners provide more heat than any other process - - and there are 3 DWR burner sizes to choose with subsurface network piping that gets the heat into the soil. These specially designed DownWell burners are able to overcome high downstream pressures and move extremely hot combustion gases through hundreds of feet of sealed well casings to directly heat the contaminated zones. Another cost saving feature includes built-in Heat Exchangers that are installed into every DWR burner to recover 55% of the well exhaust heat.



DWR-1 Burner

## "DWR" Burner Systems

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.



Burner	Power	Heat	Well	Purpose
DWR-1	90,000 watts	300,000 Btuh	5" SS	Soil TCH
DWR-2	130,000 watts	450,000 Btuh	6" SS	Soil TCH
DWR-3	270,000 watts	950,000 Btuh	8" SS	Soil TCH
DWR-CL3	270,000 watts	950,000 Btuh	8" SS	VOC Destruction & Heating

SOIL-THERM provides a complete line of ISTR rental systems that feature the latest technology SOIL-THERM DWR series gas fired heaters. Rental systems are custom configured using appropriately sized DWR series burners and extension wells to meet project cleanup requirements and schedules. All SOIL-THERM burners, network piping, and subsurface process designs are protected by US Patents and patents pending. Please inquire for more information on rates and services for these systems by contacting Mark Sujata, (818) 706-9875 x111.



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