

BLOWERS

OEC provides a complete line of environmental blowers - from fractional through 60 hp models. We provide the push and pull to move the most demanding vapor gases.

CATALYTIC OXIDIZER THERMAL OXIDIZERS

Catalytic oxidation is an effective method of destroying VOC's. Using Remedi-Cat, we can achieve 94-99% destruction of VOC's with flow rates from 100 to 30,000 scfm.

CARBON TREATMENT

Vapor phase activated carbon is a cost-effective method for treating off-gases.

AIR STRIPPERS

Treatment of air stripper off-gas emissions resulting from groundwater treatment can easily be accomplished through our carbon canisters or our catalytic oxidizer.

SOIL VENTING

Also known as "vapor extraction," soil venting is a highly effective method for removing VOC's from soils. OEC has provided reliable soil venting treatment systems around the country. We supply sealed explosion-proof blowers as well as vapor phase treatment systems to this quickly growing market.



We Build Remediation Systems Right

317-762-6007 bzvibleman@oecprocess.com

Now Located in: Vail CO, Naples FL, and Indianapolis IN

WBE , SBE

PFOA and PFOS SPECIALIST

PFOA-PFOS TREATMENT LLC



pfos-pfoatreatment.com 239-272-6655

Dual Phase Extraction Systems

are designed to withdraw both liquid and vapor phase at the same time using a vacuum system. There are many options available, the determining factor behind the selection is the expected operating vacuum level. Each Dual Phase Extraction System is manufactured to meet your specific requirements.



Claw Pumps
Two 325 cfm stacked

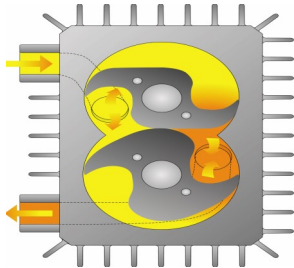


Diagram of the claw blower

Claw Pumps

Claw pumps are the newest tool in DPE. It is



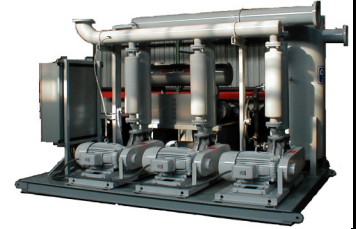
dry running and has extremely low maintenance
200 cfm DPE with a PD Blower

Vapor Extraction Systems

Vapor Extraction systems are designed to vapor form the soil by using a vacuum system. There are many options available, the determining factor behind the selection is the expected operating vacuum level. Claw pumps Liquid ring pumps (oil sealed design) are most suitable for vacuum levels in excess of 15



Solar VES Package Hickam AFB

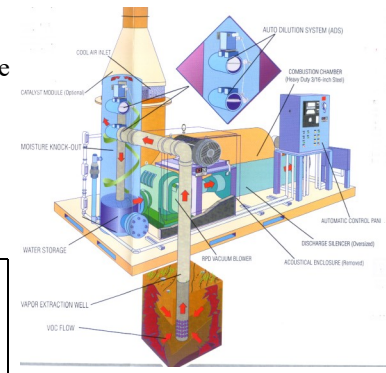


inches mercury
Three 500 CFM Turbotrons (Hg).
Sites that require 15 inches or less are obtained with a positive displacement blower, sites with under 5" Hg can use a regenerative blower. Each Dual Phase Extraction System is manufactured to meet your specific requirements.

Vapor Treatment

Thermal/Catalytic Oxidation

Thermal/Catalytic Oxidation is a system use the heat of the oxidation process to treat vacuum -extracted hydrocarbon vapor from contaminated soil or from air stripper off gases destruction levels, up to 99.99.



Carbon Treatment Systems

VFD Series Filters - Drum based filters -

Flow rate range 10~500 CFM

VFV Series Filters - Tank based filters - Flow rate range

20~25000 CFM - High Vacuum

Air Sparging and Bio-Sparging

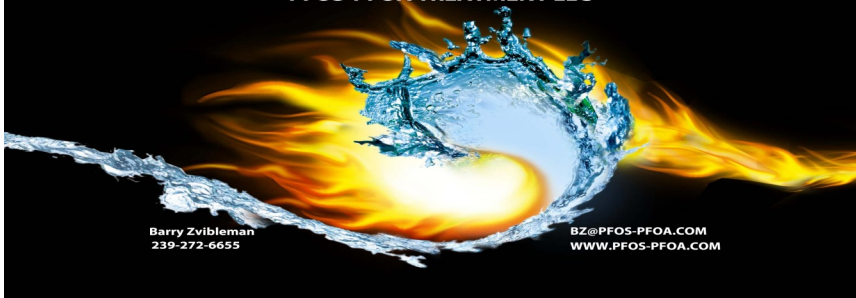
Air Sparging and Bio-Sparging is the injection of air into Soil zone either to promote bio- activity, remove VOC's or to inject air below the water table to strip VOC's out of ground water. Air Sparging is the most cost effective way to deliver oxygen to the subsurface.

There are a number of different system types that can be used; the choice ultimately depending on flow rate, pressure and possibly other design considerations.
positive displacement blowers up to 5 PSI

Sparge w/heat exchanger



PFOS-PFOA TREATMENT LLC



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PFAS Treatment

OEC has over **nine** sites we currently have under contract. We have treated water with over a **million** PPT PFAS. We treat with **Ion Exchange, Carbon and Electrocoagulation.**

Call us today to evaluate your site
239-272-6655

Telecommunications and Controls

Let OE's designs engineers bring your control panel into the 21st century with its advanced communication systems. The control panels are manufactured in a UL shop. We offer several internet based system that allow you to operate the systems remotely.



Pre-Packaged Remediation Systems

All systems are designed to your site specific requirements. Each system is pre-wired, plumbed and tested prior to delivery to your site. These systems can either be skid, trailer, building or container mounted. Explosion proof designs are also available. Our system meets UL and other city and state regulations.

VES Solar Power system
Hick AFB HI



Ground Water Treatment

Air Strippers

Air stripper are the most cost effective way of removing many VOC's from water. The process is as follows: As contaminated groundwater enters through the top of the air stripper, air is by the blower pressure up through the perforated trays, vigorously aerating the water to a froth and removing volatile contaminants (VOC) from the water. These systems are from 1-1000 gpm.



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Activated Carbon

Granulated Activated Carbon (GAC) technologies are used to treat contaminated liquid and vapor streams. The technology involves passing these fluids through a media bed with a large surface area. The system are available from 200 LB to 20,000 lb. Call us for other metal for oil and Metal removal.



Two 10,000 Carbon Vessels

Oil Water Separators

Oil water separators are used to remove free and dispersed oil and other petroleum products from ground water recovery, industrial wastewater and/or storm water systems. Onion Enterprises uses a coalescing separation system which enhance the separation process



THERMAL & CATALYTIC OXIDIZERS

Thermal Oxidizer 1000 CFM gas fired
Thermal Oxidizer 500 CFM Gas fired CL Rated
Thermal Oxidizer 300 CFM Electric gas fired
Catalytic Oxidizer 150 CFM Electric
Catalytic Oxidizer 150 CFM Electric

Air Stripper

Air Stripper 60 gpm Low profile
Air Stripper 25 gpm Low profile
Air Stripper 100 GPM Low profile
Air Stripper 200 gpm Low profile
Air stripper 400 gpm low profile

Trailers Building Containers

48 foot Semi Trailer Heated Cooled 100 gpm Pump/Treat
32 foot Trailer Heated and Cooled DPE,OWS, Air Stripper
24 foot Building Heated and Cooled VES Sparge
20 foot Container Heated cooled Dual Phase , with carbon
20 Foot container Heated w/(2) 5000 lbs Liquid carbon
40 foot Container 200 gpm pump and treat
26 foot Trailer Dual Phase Extraction, 300 cfm, separa-
tor ,filters, stripper , Remote telemetry
24 foot Sparge Trailer 250 cfm. 100 psi

New 50' Trailer PFOS-PFOA ION EXCHANGE TRAILER

Chemical Injection Trailer

18 foot 3 gpm dosing pump, 30 gpm capacity, 6 ports, telemetry

Carbon Liquid and Vapor

Carbon 20000 Lb Liquid
Carbon 20000 Lb Vapor
Carbon 10000 Lb Liquid
Carbon 00000 Lb Vapor
Carbon 5000 LB Vapor
Carbon (2)5000 lb in heated cont.
Carbon 5000 LB Vapor
Carbon 3000 Lb Liquid
Carbon 3000 Lb Vapor
Carbon 2000 Lb Vapor
Carbon 2000 Lb Vapor
Carbon 1000 Lb Vapor
Carbon 500 Lb Vapor
Carbon 500 Lb Liquid
Carbon 200 LB Liquid

Vapor Extraction Systems

Includes: Filter-K-pot- Transfer Pump-
Instrumentation-Controls

VES PD Blowers 1500 CFM
VES PD Blowers 800 CFM
VES PD BLOWER 600 CFM
VES PD Blowers 300 CFM
VES PD Blowers 500 CFM
VES PD Blowers 200 CFM
VES Rotron Blowers 500 CFM
VES Rotron Blowers 200 CFM
XP pilot Test Sparge VES Skid

Dual Phase Extraction

Claw Pump 650CFM
Claw Pump 325 CFM
Claw Pump 200 cfm

Oil -Water Separators

Oil Water Separators 30 gpm
Oil Water Separator 20 gpm
Oil Water Separator 50 gpm
Oil Water Separator 100 gpm
Oil Water Separator 200 gpm

Sparge

Sparge Trailer 250 at 100 psi, 16 port

Sparge Blowers 500 cfm @ 10 PSI
Sparge Blowers 400 cfm @ 10 PSI
Sparge Blower 180 cfm at 24 PSI
Sparge Blowers 200 cfm @ 10 PSI
Sparge Blowers 100 cfm @ 23 PSI
Sparge Blowers 50 cfm @ 16 PSI

NEW Sparge trailer 150 cfm 100 psi

Onion Equipment/Onion Enterprises is a
Small, Women Owned company.

Call us today for existing rental systems or a
custom system to meet your site requirements

317-762-6007

bzvibleman@oecprocess.com

Your PFAS Specialist