

DECONTAMINATION • LEGACY WASTE • SAFETY • RECYCLING • RECLAIMING • DISASTER MANAGEMENT

GLOBAL DISASTER SOLUTIONS 2022

BIO-PANDEMIC DISASTERS

Welcome to PowerPlus DCU. With over 30 years of disaster relief and recovery, we are the worlds leading experts in planning, executing, and managing any major disaster. Our proven technology has set us apart along with skilled workers and well coordinated management capable of working world wide, or helping establish prevention protocols which can keep your environment safe.

Based in Anaheim, California, we stand ready to serve your needs and help you reclaim any disaster related damage. The following packet provides insight into our methods and technology with recall to our successes and learning curve. You have many choices with companies to work with, but all fall short to our capability and experience.

If there any questions you have, please, feel free to contact us;



(714) 635-9202
info@powerplusonline.com

Certifications Accredited to PowerPlus

In any given disaster there are hundreds if not thousands of potential “solutions” to them. With the wrong methods being utilized the results can be disastrous. Governing bodies have been set in place to review ideas and concepts and either approve or deny these methods and technologies. PowerPlus Cleaning Solutions DCU (Disaster Clean Up) has had approval from these governing bodies for in-situation-approvals, or “In Situ” certified.

- OSHA
- USDA
- EPA
- NOAA
- Dept. of Navy
- FDA
- Fish and Game
- Homeland Security
- U.S. Coast Guard



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Bio-Pandemic Disasters



Bio-Pandemics can be some of the worst disasters to deal with. No one knows for sure how large the range is, how long it has really been there, or exactly what the strains of infections are. Each second that it takes to solve the problem is another second that the virus has to conform and adapt to new environments always leaving the scientists to having to try to think one step ahead of the virus. Then, once the cure has been identified, you are left with having to distribute and clean very dangerous areas and environments.

What of the contaminants left behind after everyone has been vaccinated? Those little bugs will not stop just because they have been stopped on one front. They continue to thrive and breed in whatever environment they can and come back hundreds of times as strong as before. Half the solution to the pandemics often goes unresolved as the evolutions of these viruses go uncleaned leaving cultures to grow. But how does one clean in deep cities and urban environments or rural areas and farms with so many textures, surfaces, and environments that seemingly make it impossible to clean?

How do you handle crops without having to tear up the land and destroy farm lands that will take years to get back to being balanced again? How do you clean apartments with hundreds of different kinds of surfaces and certify that each location is cleaned?

All these questions and much more can be answered with one company. PowerPlus Cleaning Solutions DCU, with over 30 years of experience has dedicated itself to making solutions to provide to disaster clean ups all over the world. We have technology and methods that make our solutions unique and adaptable to any situation that arises. We can create an in-situ prescription that can be checked and certified.

This packet will go over many of the technologies that we bring to the table, and all is left for you is to call us to have us write that prescription to cure your pandemics!

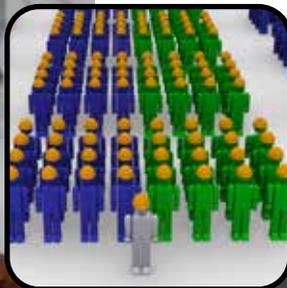
Deployment Options

We strive for excellence and we appreciate our customers. It does not matter if you need the worlds largest clean up effort, or if you simply want help deciding how to handle a small spill, we are ready to service your needs. We offer different levels of deployment including full turn-key options to a do-it-yourself option. Full training and support is available.



I: FULL TEAM DEPLOYMENT

Full teams stand ready. We will come in, verify the level of contamination or levels of damage and report back to local government or businesses. We then do any necessary planning for the project and then execute that plan. The process is all inclusive with personnel and equipment being provided. A certification of cleanliness is provided for all areas that have been decontaminated by our certified teams.



II: CROSS TEAM DEPLOYMENT

With our technology and your workers, we can work together to decontaminate your lands and homes. PowerPlus will send training teams and supervisors watch over your workers and train them in the decontamination process, while our specialists and supervisors test to ensure the work is done correctly.



III: CONTRACT DEPLOYMENT

Our trainers/specialists can be deployed to watch over your workers and verify that the process is complete along with training them in those techniques. The work is up to the employees to complete in the entire process. Additional purchase of necessary equipment may be obtained through PowerPlus.

Legacy Waste

Waste is always the concern when any disaster strikes. Waste of resources, manpower, money, and of course, waste that lasts into the future. Legacy waste can affect everything from economy, health, environment, to children who need places to confidently roam, play, and learn.

The PowerPlus DCU technologies are all designed to minimize or eliminate waste all-together. Our machines are designed to collect and separate contaminants from the natural materials and allow the materials to be returned into the environment free of harm. The harmful contaminants are designed to be re-usable and or recyclable. Either way means, no landfills. This means no wasted land, no costs of burying the waste, no costs of maintaining that waste, and no future threat of contaminants leaking and polluting ground water and soil that we use to grow crops and live with.

Why would you want a dump where trees once stood? You would not. But when all other solutions give you that as a choice, your choice becomes clear.



Covering a multitude of disasters



Bio / Chemical



Mud slides



Bio Pandemic



Tornado



Earthquake



Hurricane



Fire



Volcano



Oil



Flood



PowerPlus Cleaning Solutions DCU has the experience and expertise to clean any major disaster known to man today. We pride ourselves on thirty four years of disaster remediation including many of the U.S. largest disasters to date. We have had to ramp up quickly and overcome many obstacles that come with breaking ground in the decontamination processes. But they also constantly set the bar higher and higher in an ever changing field.

There are many different types of disasters, and each of them require their own methods and approaches. We recognize this and we write customized prescription methods to address each incident specifically. This increases the effectiveness of our technologies. While we are decontaminating and cleaning up after these disasters, we also wind up addressing;

- Human decontamination
- Animal decontamination
- Vehicle decontamination including large naval vessels, cruise ships, airliners, commercial and private aircraft, cars, trucks, and trains
- Environmental decontamination including crops, trees, shrubs, grass, vegetation or surfaces of any kind can be addressed at the time of decontamination.
- Living and working environments, furniture, fabrics, building structures and sub-structures.

Personnel Safety

Your workers are your most important asset on any job site. They do the work you need to have done, and they are the ones who operate the equipment that gets the job done. They have the skills that take time to develop and years more to apply that knowledge to gain full efficiency.

You need to protect your workers / investments as well as possible. No matter what the catastrophe is or where, PowerPlus DCU stands by ready to deliver the worlds best protective gear to keep them safe. In Fukushima we sent our crew in with RST shielded radiation suits. The only suits in the world that can block alpha, beta and gamma radiation particles.

We also have mobile command centers at your disposal to oversee the projects and keep coordinate sites from all around the area moving cohesively as one unit. These centers come equipped with:

- Mobile Communications
- MSDS, Personnel Safety Logs, Safety Procedures
- Mobile laptops Containing All Safety Data
- Large Screen Monitors For Training On Site
- Tool Storage
- Personnel Sleeping Racks
- HEPA Positive Flow Air System
- Cooling And Heating Systems
- Indoor And Outdoor Lighting Systems
- Decontamination Pits
- Generator
- PASS Proprietary Software

Vessel Decontamination

Clean and Capture tools have been servicing large naval vessels for years. Among the most recent large scale decontaminations to occur was the BP Oil Spill in Gulf of Mexico. Literally hundreds of ships lay out at sea unable to come into port because they were covered in layers of oil from the spill. PowerPlus Clean and Capture tools were mounted on small boats that went along side their larger cousins and cleaned every square inch of the hull surface. From small boats, tankers, cargo ships, and even cruise ships can all be serviced with the Clean and Capture tools from PowerPlus.



Cleaning on ground

Prodigy Bio on board



Technology

Beyond the planning and skill of our workers, it is all for naught if our equipment is not ahead of the curve allowing us to do what we do best. We rigorously test our equipment and continue to research every step of the process which provides the information we need to ensure that our equipment is ready for any given task. Through our years of deployment, planning, and resolution of different disasters, we have culminated equipment that we designed to accommodate the needs of those in the field.

PRODIGY BIO:



The heart of our operation. This powerful machine provides enough punch to cut through a 2x4, drain mud swamped homes, and yet still be gentle enough to decontaminate the fur from our beloved pets. The Prodigy Bio utilizes CES technology along with Clean and Capture tools to perform any needed task in the field. With additional benefits including;

- In-field generator
- Water purification
- Ability to clean any given surface in any direction or even under water
- Multi-user support with a single machine with over 1000ft of hose supported
- Stainless steel construction for maximum longevity
- Multi-platform ready

CLEAN AND CAPTURE

Clean and Capture is defined as "The process by which high pressure agitation and immediate extraction occurs within a closed tool head. This creates superior cleaning results with no run-off, over-spray, or cross-contamination." With the entire cleaning process handled within the tool head, our techs can clean anywhere and any position without runoff. Additional tools that are contained with this technology include cleaning wands, riding machines, CES, and a host of others that all provide the tools needed to clean anything from anywhere. Not even nuclear or biological contaminants are safe from our systems.





CES:

CES or Cleaning Extraction System is crucial when cleaning microscopic contaminants from biological creatures or environments. It allows us to decontaminate without having to uproot or destroy plants and vegetation that otherwise would become legacy waste with any other method. Our screens are specifically designed to leave the environment in tact while removing the contaminants.



Clean without destroying



Gentle enough for small animals

BIO BLASTER:

Time is of the essence when dealing with bio pandemics. The ability to effectively apply a measure and stop the contamination at ground zero can be the difference between life and death. This system is designed to be mobilized and deployed quickly and eradicate contaminants. Simple, direct, effective.



EARTH DECON MACHINE:

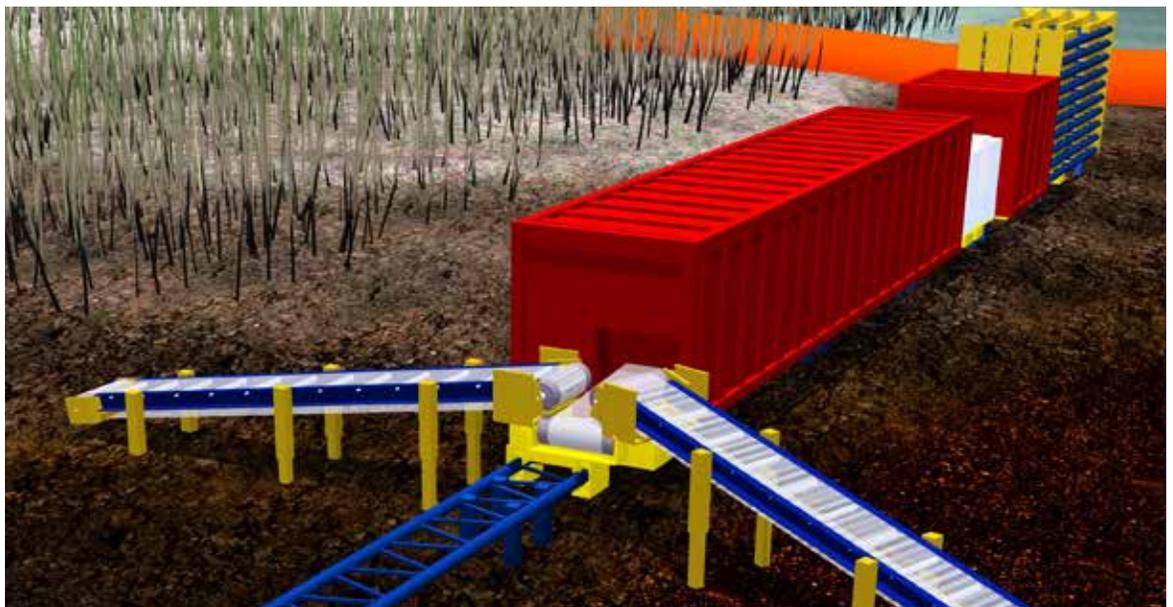


Our EDM is for deep soil extraction that can't be addressed with CES. The entire process is self contained within the machine marching contaminated soil through scanners which detect the different harmful materials and applies the correct cleaning solution down the

conveyor using CES screens and Clean and Capture technologies. After that, the materials can be safely dealt with while the original material can be returned to the environment contaminant free.

EDM TRACKED SYSTEM:

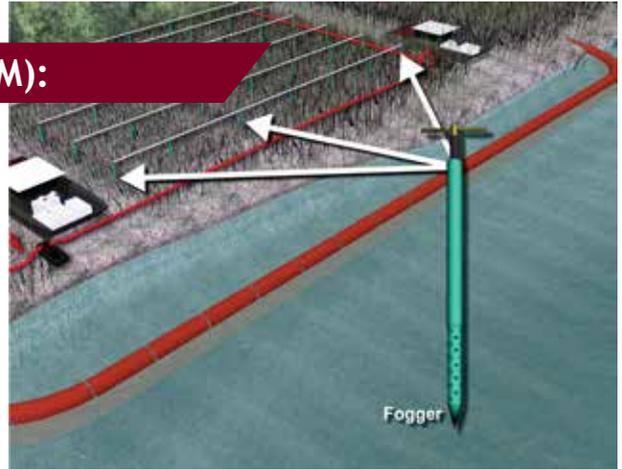
When we need to move the EDM or other large equipment into areas un-able to be accessed through conventional means. We offer the EDM Tracked System to allow our teams to be deployed even in the most remote regions of the world. This expansive and modular system allows us to transport materials and equipment too and from different working sites providing a very flexible and effective transport system.



EDS (ENZYME DISTRIBUTION SYSTEM):

This allows us to promote environmental health with special “Indigenous Enzymes” for deep soil treatments for heavily contaminated areas. These endemic enzymes are harvested and multiplied to replenish the contaminated area with healthy growth that is specific to a given area. The enzymes are specially treated so that they attack the contaminants and then remove themselves from the environment when the resource has been eliminated.

This system can be delivered on any soil, including hard to reach areas like mangroves and distant shores.



DCU FILTER SYSTEM:



Water, is by far one of the most valuable natural resources we have. It is vital to protect it and keep it clean for all forms of life across our Earth. Yet, it is also one of the most easily violated and damaged commodities that we have. Oil, radiation, chemical dumping, and all other forms of pollutants threaten to destroy our water and at times it seems there is no way to clean the contaminants that already exist. PowerPlus Cleaning Solutions is here with the answer.

Our D.C.U. Filters can handle thousands of gallons per hour and can capture any contaminants to produce drinkable water from the most polluted sources. The five stage process moves from removing large debris and objects from the water down ever progressive filters followed by a special chemical based filter (PowerPlus RadCap) for radiated waters.

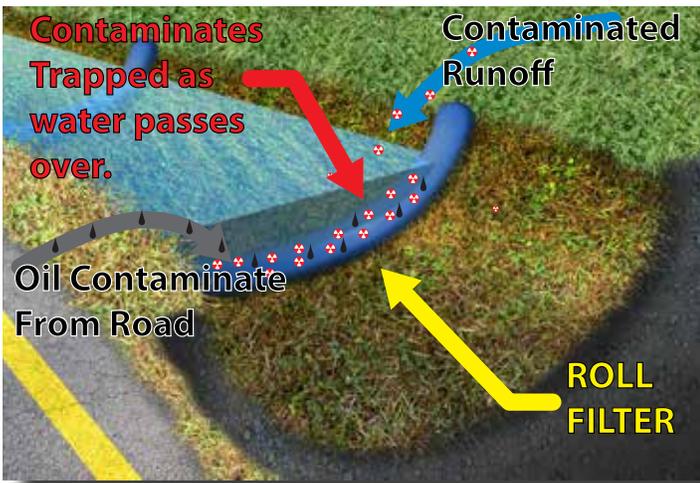
The filters are “Hot-swap” capable in that, when they are full they can be replaced with empty filters without stopping the process or losing productivity. Each filter has a special set of instructions for how to deal with the materials left inside. They can be cleaned and reused over and over while the collected material can be safely stored and is, most of the time, has cash value to industries.

With large oil spills and the like, there are many proven methods on how to isolate and capture those materials. But our technology goes a step further by having a built in water / contaminate separator already built into our machines like the Prodigy Bio. This means you can, collect, clean, contain, and redistribute clean water and source material back into the production line all with the same solutions. At the end of the day when BP Oil pulled in its miles of Boom to be stored, PowerPlus machines were there with the CAC and CES technologies to clean those booms so they could be re-used for any further disaster. It also was able to store the collected material and return it to the refineries for later processing. That is money back in their pockets.

DCU COLLECTION SYSTEM:

Another consideration is the runoff created by contaminants from long term exposure, and or improper cleaning approaches. As contaminants are washed off surfaces by rain or improper cleaning, that contaminated water goes down into drains or into water ways which soak into the ground and eventually come back into the drinking water or water that is then used by crops to grow. This can contaminate entire crops of food making it unsafe for consumption. Farmers can be wiped out by threats like this, not to mention the millions of lives who could. Unknowingly, eat contaminated food. Again, this all points to the importance of maintaining a clean water source.

One way to mitigate the continued introduction of contamination into your sewage and waterways is through the use of our specially treated D.C.U. Collection System which blocks the waterways from debris and contaminants, but allows the water to flow in. This helps reduce new contaminants from entering your system and start the process of reclaiming the contaminated water supplies. In Oil and Chemical disasters, these devices can be



wrung out and reinstated quickly continuing to prevent solid waste. These illustration shows the Pillow and Roll Filters being utilized in a gutter situation. The contaminants are attracted to it due to special chemical agents that the pillow is soaked in thus attracting the contaminants. As the filter is slowly engorged with these contaminants, it can be re-cleaned and recycled to be used over and over again. Other filters would be placed in front of gutters, in open water streams, or wherever water would travel.



PRODIGY BIO



Why do I need a Prodigy Bio?

The Prodigy Bio is the fastest way to handle the largest catastrophes and down to the smallest cleanups. This machine can decontaminate and process Oil, Radiation, Air Borne Pathogens, and other known hazardous materials.

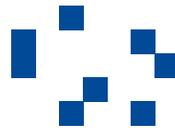
The Prodigy Bio is also capable of pressure washing, cleaning carpets, upholstery, and working on all hard surfaces, as well as graffiti removal, floor stripping, drain cleaning, and hydro jetting. From A to Z this machine services all cleaning needs.

Capabilities

- The Chemical Injection System allows for virtually any chemical to be applied hot and with pressure, such as solvents, cleaners, enzymes, quaternary disinfectants, caustic soda, etc..
- **80% more vacuum** than most large truck mounted machines
- **Four times the airflow** and 22 inches H.G. of vacuum.
- **Twice the capacity** of most pressure washer's water pumps
- **Twice the heat** to assist in decontaminating and cleaning.
- **4000 PSI of working pressure**
- **Stainless Steel throughout**, including a holding tank, heat exchangers, mufflers, an exhaust system, machine panels and more to facilitate cleanliness/sterilization.
- **Filters in the tank** clean Biohazard/Hazmat waste with heat and a disinfectant, sending the waste to a stainless steel holding tank where it is treated with Ozone and UV light prior to disposal. (allowing sanitary sewage disposal.)
- **6000 gallon per hour Pump Out** pumps treated waste to a drain or secondary tank. This allows unlimited disposal of anything from dirty water to Nuclear Waste.
- **Cleaning / decontamination of itself**, its hoses, and attachments with Clean and Capture technology.
- **Remote operation in disaster conditions**, The Prodigy Bio can provide its own clean water, 120V. of clean AC. power, and can operate on Gas or Propane Tanks with the flick of a switch. (Diesel available.)

Specifications

Dimensions	W 34.5", H 40", D 42" (including waste tank)
Weight:	475 lbs. (with tank)
Frame:	Powder-coated high strength steel
Engine:	23 H.P. Vanguard/Honda overhead valve
Water Pump:	Oil Bath at 6.8gpm at 4000 P.S.I.
Heating system:	Stainless steel 3 element exchanger
Recovery tank:	70 Gallon heavy-duty Stainless Steel Tank
Hoses:	1000ft. vacuum +1000ft solution hoses
Instruments:	Rugged marine gauges
Wand:	Two-Jet stainless steel S-bend wand with bypass
S.O.V.C.	Included
Construction:	Stainless steel panels
AC	120volts 20amp True Sign Wave



PRODIGY BIO

Features

- Self cleaning/sterilizing
- Oil/Water separator built in
- Can run virtually any chemical
- Clean and Capture ready
- Pressure washing with chemical and heat up to 4000P.S.I.
- AC 120V 20amp. power outlets True Sign Wave
- Ozone, UV light, chemical, heat sterilization and decontamination methods capable.
- Pumpout
- No Hazmat waste created

Facilitates

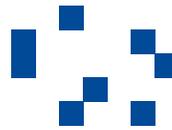
- Emergency Management Center (EMC) and the Comprehensive Emergency Management Program (CEMP) -71:4027-4030
- Hazard Vulnerability Analysis (HVA) and Emergency Management Program (EMP)
- (OSHA) Hazardous Waste Operations and Emergency Response regulation (HAZWOPER), 29 CFR 1910
- Occupational Safety and Health Administration
- 29 CFR Parts 1910, 1915, and 1926 1928
- Blood-borne Pathogen Standard 29 CFR 1910.1030 and 1915.1030
- Hazardous Liquid 1910.106
- 4953: Refuse System
- (HASP) Requirements
- IAQ 1915, 1926, 1928

Optional Upgrades

- Dual Fuel (Propane or Gas) Diesel available
- Choose from three different water softeners
- Heat exchanger upgrades for higher temperatures and volume
- Hose cleaning and decontamination tools
- Hydro Jetting attachments for drains
- Drain clean out attachments (Scum Sucker)
- Upholstery and drapery tools
- Liquid cooled engine options
- Silencing packages for ultra quiet operation
- Auto Pump Out 60,000 GPH
- Pump out that handles mud, sewage, and small rocks
- Security packages for use in high theft areas
- Hard surface cleaning attachments (for wood, tile, marble, concrete, vct, etc.)
- Clean and Capture tools :
(Clean and capture is the process by which high pressure agitation and immediate extraction occurs within a closed tool head. This creates superior cleaning results with no run-off, over-spray, or cross-contamination.)
- Pressure washing guns
- Mold and asbestos abatement systems available
- Closed loop cleaning systems
- In place soil / earth decontamination systems

Who is PowerPlus?

Powerplus Professional Cleaning Solutions, is the world leader in decontamination, cleaning and restoration. With over twenty four years experience, we continue to achieve new standards for all industries concerned. As a company we welcome and appreciate comments from our clients and vendors. And we understand the need for prompt, reliable services for disaster clean ups such as hazmat, biohazards, fire, flood, mold and asbestos abatement, and remediation disasters.



S.O.V.C.



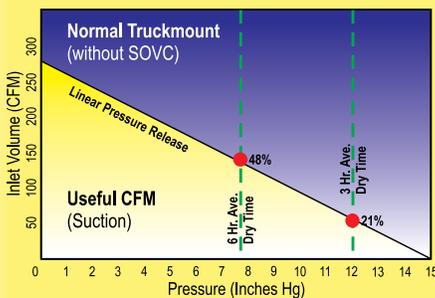
S.O.V.C.™

(Solenoid Operated Valve Control), is a revolutionary patented product that quadruples the suction power of the Prodigy Bio. This substantial increase in suction power, increases the distance at which you can work from a base camp. Because S.O.V.C. delivers more CFMs at lower RPMs than would typically be required to achieve the same suction power, S.O.V.C. decreases fuel consumption while lengthening the life of your Prodigy Bio.

RUN MULTI-LINES

S.O.V.C. can allow the Prodigy Bio to run multiple hoses at one time at up to 1000 feet! With four times the suction coming out of the Prodigy Bio, the cleaning capacity is also quadrupled, giving you the best platform for all remediation needs.

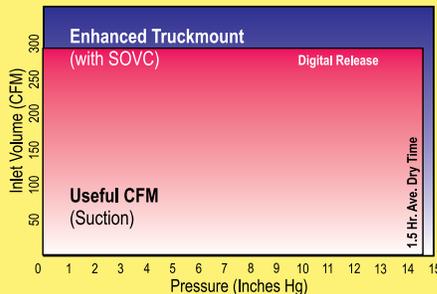
HOW DOES S.O.V.C. WORK?



As the chart to the left illustrates, the spring and disc pressure relief valve used on most truck mounts begins to open the moment the truck mount is started. The result is an immediate loss of CFMs. As the pressure is increased, CFMs continue to decrease cutting suction by 80% at 12" Hg.

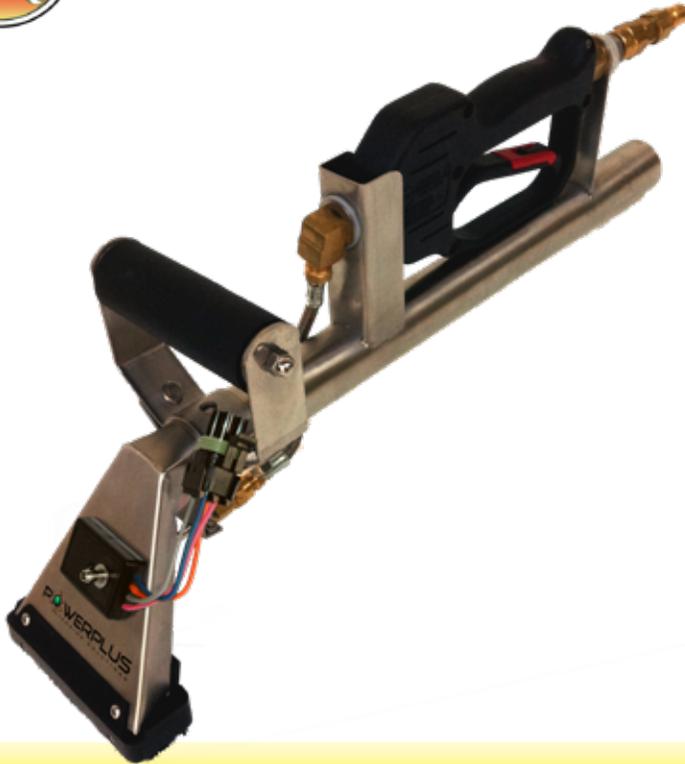
The chart to the right illustrates the effect of replacing the spring and disc valve with an S.O.V.C. digitally controlled valve. PowerPlus calibrates each S.O.V.C. unit to open the pressure relief valve at the customers specified pressure. The result is maximum suction while ensuring maximum safety.

Internationally patented





CLEAN AND CAPTURE

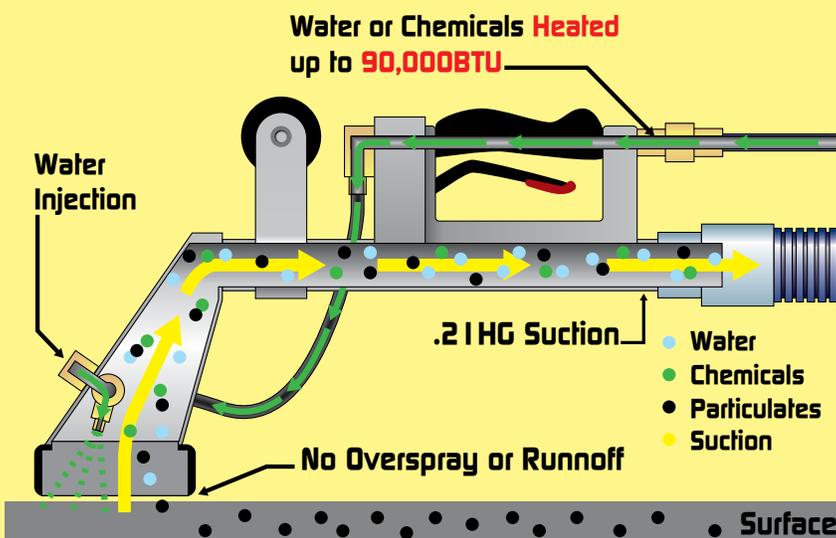


CLEAN: Each tool has nozzles that can spray water or any other chemical. A powerful suction is generated with Prodigy Bio drawing all the particulates out of the surface you are cleaning while capturing them in a holding tank in which they can be treated.

CAPTURE: The oil and other particulates are captured with Clean and Capture then cleaned with our filtration system capable of producing a drinkable water solution. It can also leave surfaces in a near new condition after the deep cleaning.

A Powerful combination: The Prodigy Bio is a particularly powerful partner for this technology. With over 4000 PSI of pressure available, 21H.G. of suction, a stainless steel construction with a large holding tank, and the ability to run up to 1000 feet of hose, the Prodigy Bio makes the perfect combination for Clean and Capture tools.

10,000 Cycles Per Second!



WHAT IS CLEAN AND CAPTURE? Clean and Capture is a proprietary technology of PowerPlus Professional Cleaning Solutions that utilizes heat, suction, pressure, and chemical properties to achieve a decontamination solution second to none. The PRODIGY BIO is completely integrated with this system that can provide a safe, inexpensive, way to reclaim contaminated areas.





CES SYSTEM



CES Components:

- Clean and Capture tools and technology
- Prodigy Bio
- C3 Technology
- S.O.V.C. Technology
- S.E.P. Technology
- CES - Procedures
- CES - PASS Software
- Oil/Water Separator

CES (Contamination Extraction System): is a culmination of technology and procedures. It is what allows *PowerPlus Cleaning Solutions* to clean soil, crops, and trees while maintaining the integrity of the surfaces being cleaned.

Different: CES is different in the fact that it is a complete solution and package. The technology ranges from removal of oil and contaminants from any surface, to addressing any issues such as oil run-off, maintaining the eco-systems and helping the environment heal itself.

Effective: The CES system is all together effective and cost efficient. No scraping of the soil, cutting down trees, destroying homes or lives is necessary. Decontaminate in the harshest conditions with CES.

CES Value:

- Cost effective
- Environmentally friendly
- Proven technology
- Complete package
- Ground water protection
- High decontamination effectiveness
- No hazardous waste created
- Soil nutrients can be added in the process





COLLECTION SYSTEM

FILTERS

RUNOFF: is a big concern when it comes to decontamination clean up. It is also a critical issue when it comes to water purification. Contaminants that are left in the water after being in any given environment are a big problem even under normal conditions. Oil contamination complicates the cleaning process tenfold.

STOP RUNOFF: Our filters are specifically designed for a large amount of water flow. This filter is designed to be dropped into any gutter, or narrower water way where large or small amounts of contaminants like oil or solvents make their way into water systems. As the low waters travel over, around, and through a filter, the contaminants are trapped inside the filter, which can be replaced and reprocessed. With oil, many times you can write out the filter into your barrels for further processing while putting the filter right back into service. This means virtually no additional landfill waste will be created with this system!

The current system is made up of three different filters, all intended to maximize your protection.

FILTER TYPES

PILLOW FILTER:

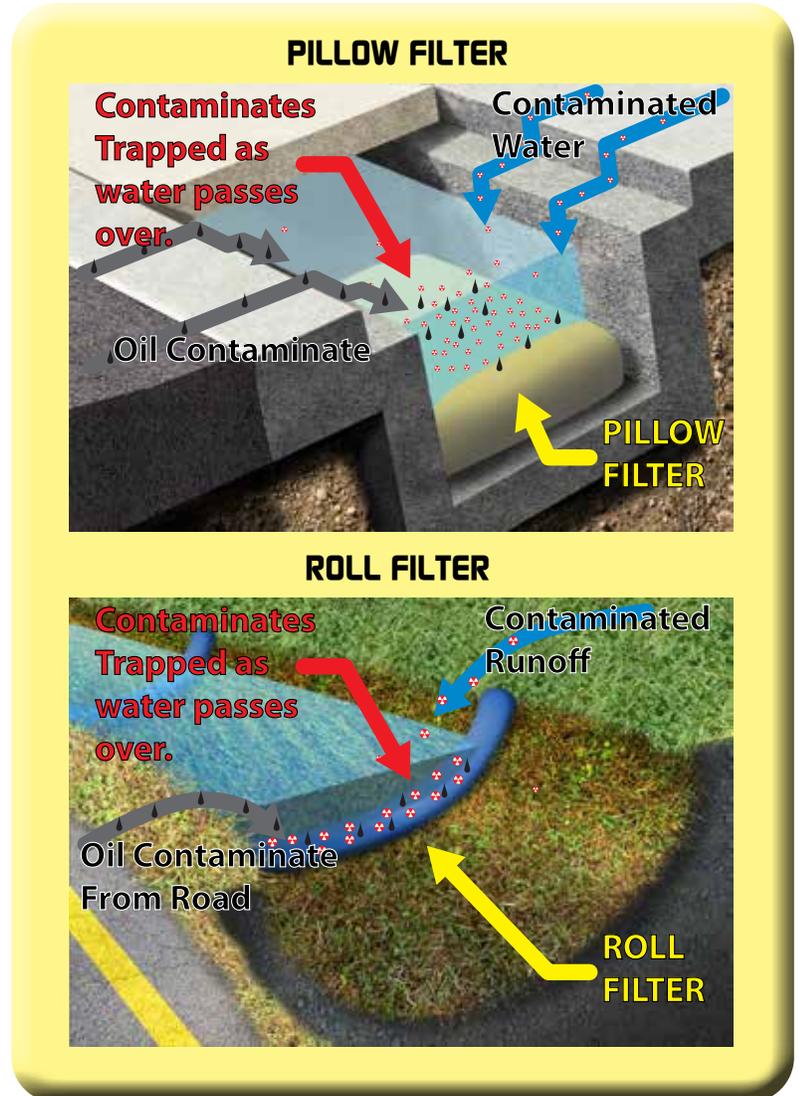
This filter is designed to be dropped into any gutter, or narrower water way where large or small amounts of contaminants are trapped inside the filter, which can be replaced and reprocessed. Simply drop in place and you are done!
Size: 30cm x 30cm x 5cm

BARRIER FILTER:

Designed to make a great first defense as it captures radiation, oil, and solvents by filtering the water that travels into gutters. Size: 13cm x 2.1m

ROLL FILTER:

Sometimes needs require a longer or wider system. That is where this system fills the gap. We can make long rolled versions of our filter system in order to fill ditches or gutters. Size: 13cm x 3m



WE ARE READY TO MOVE.

PowerPlus is standing by with equipment and personnel ready to move when you are! Let us put our years of expertise and know how to work for your country and remove the contaminants that keep you from enjoying your lands freely.



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