

# Bio-Recovery Solutions



## ELIMINATE ODORS

Bio-Recovery is the cleanup of biological material, typically at a crime scene. Body decomposition creates terrible odors that require professional attention. Eliminating these odors is an important component in the total process of bio-recovery services. Immediate response by a crime scene cleanup company, using appropriate treatment methods, is crucial to the success of the deodorization process. Vaportek products provide “naturally” effective results for the dedicated staff entrusted with restoring the property to its pre-trauma condition. Specifically when the tragedy occurs in a home, rely on Vaportek’s patented technology to effectively and permanently neutralize malodors.



It is thanks to our essential oils that Vaportek may proudly claim to offer our customers a green solution for their malodor issues rather than be forced to seek out harsh chemicals and ozone producing products. Many existing odor eliminating solutions expose both occupants and the professionals using the equipment to health issues like respiratory disease and lung damage. These products can cause harm to our natural environment too. Our technology is CFC-free, nontoxic, and VOC compliant.

## WHY DRY VAPOR

Vaportek further distinguishes itself from competitors with our dry vapor delivery technique which adds zero moisture to the treatment area and is otherwise imperceptible beyond the aroma of essential oils. Our technology doesn’t produce any harmful ozone or hydroxyl, doesn’t involve any fogging equipment, and isn’t as messy or sticky as gels and sprays. Dry vapor compounds have high mobility in the air and are able to safely penetrate porous substances such as wallboard, wood, carpeting, cement, insulation, and other surfaces in a way that competitors’ products cannot.

## ODOR MASKING vs. ODOR NEUTRALIZATION

To mask is to increase overall odor intensity in order to forcibly “cover-up” an existing malodor. This means introducing a new odor that is more powerful smelling than the problematic odor you wanted to eliminate. It results in a further bombardment of perceived scents that does nothing to eliminate the source of the original malodor.

To neutralize is to eliminate or cause malodorous molecules to be imperceptible on a molecular level through direct counteractant measures with an additional compound, in this case, our essential oil compound comprised of plant, flower, and tree extracts. Malodor molecules are then changed through chemical interaction, called odor-pairing or encapsulation, into a new molecular form that either no longer smells or that is not volatile enough to be perceived. In this way, the malodorous molecule is lessened to the point of nonexistence as it has been broken down beyond recognition.

When Vaportek’s essential oil compounds are volatilized into the air as a dry vapor, they react directly with odorous molecules in the air. This molecular, chemical interaction allows Vaportek’s products to effectively neutralize organic malodors.

## WHY ESSENTIAL OILS

While Vaportek does introduce an additional fragrance (which some incorrectly attribute to masking) due to our complex formula of naturally occurring essential oils, it is the exact complexity of our oil formula that goes one step further to effectively eliminate the source of the malodorous molecules through encapsulation or odor-pairing neutralization technology. While there are many essential oils, not all of them are capable of neutralizing organic odors such as smoke, urine, skunk, and mildew. Vaportek has carefully crafted the correct blend of oils required for effective and permanent odor elimination. This is why Vaportek’s technology is so unique. Our formula of essential oils offer a broad spectrum neutralization of odor causing elements like aldehyde, amine, diamine, sulfide, lactone, carboxylic acid, ester, carbamylamines, ketone, and other carbons.



## PROVIDING IDEAL SOLUTIONS FOR:

- Crime & Trauma Mitigation
- Suicide Cleanup
- Illicit Drugs/Clandestine Drug labs
- Distressed Property/Hoarding
- Jail Cell Cleanup
- And more!

## ALTERNATIVE TO OZONE & HYDROXYL

Our products are **NOT** recommended with use of these systems.

## THE VAPORTEK ADVANTAGE

- No evacuation of people, pets, or plants necessary during treatment.
- No respirators, special equipment, or training necessary to operate.
- No danger of combustion.
- Does not harm textiles or remove pigment from leather.
- Does not cause oxidation.
- Does not decompose or disintegrate rubber and rubber-based fabrics and materials.
- Does not introduce moisture into the area.
- No potentially dangerous re-entry or recovery period as with ozone.
- Does not create ozone.
- CFC-free.

## TREATMENT OPTIONS

Depending on the severity of the odor and the size of the area being treated, different Vaportek products may be appropriate. The following brief descriptions provide basic product guidelines for proper selection and application:

### Restorator®



Battery operated version available!



Designed for fast deodorization, this portable device safely and effectively tackles tough malodors. The Restorator is capable of treating **areas up to 20,000 ft<sup>3</sup>**. Cartridges are rated for 270 hours and are available in 3X Industrial and S.O.S. (Smoke Odor Solution) formulas.

### Vapor Shark®



Popular, versatile electric unit is capable of treating **areas up to 50,000 ft<sup>3</sup>**. Durable aluminum housing and powerful internal fan. Replaceable membranes rated at 270 hours. Uses 1-5 replaceable membranes. Membranes available in 3X Industrial and S.O.S.

### Portable Industrial™



The Portable Industrial unit is ideally suited for very large areas. Capable of treating up to **200,000 ft<sup>3</sup>**, the machine holds up to 10 replaceable industrial membranes. Membranes are rated for up to 270 hours of continuous use and are available in 3X Industrial and S.O.S. The Portable Industrial can be used freestanding or it may be permanently installed in an HVAC system. Adjustable inlet/outlet openings. Lightweight, durable aluminum case with carrying handle and durable locking latches.

## Heavy-Duty Standalone Cartridges™



Non-electric; simply rotate adjustable end caps to control air flow. Designed specifically for use in HVAC systems; also recommended for use with high-velocity blowers and fans. Capable of treating **areas up to 20,000 ft<sup>3</sup>**. Cartridges are rated for 270 hours and are available in 3X Industrial and S.O.S.

## Liquid Line



Dye Free | Sample sizes available upon request

### Bio-C™

Powerful concentrate. Includes enzymes and nonpathogenic bacterial cultures to breakdown organic waste naturally, effectively, and immediately. Features unique formulas that contain 255 billion colony-forming bacterial units per gallon along with Vaportek's nontoxic odor neutralizer.

### Bio-C GPT™

General purpose concentrate. Offers a powerful bacterial blend that creates specific natural enzymes within one hour and becomes totally involved in 4-6 hours.

### ECOZ™

A super-concentrated, water-soluble odor-neutralizing liquid that provides a cost-effective companion to dry vapor systems. Add to cleaning solutions/mop buckets, carpet extractors, and final laundry rinses to enhance cleaning activity and provide an extra measure of deodorization-plus a fresh, clean scent! Available in S.O.S., Neutral, Linen & Lemon formulations.

Use Xactimate codes: CLN DODRM, CLN DODRME, & CLN DODRMEM



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REV. 3/22