



Sorpt.X CA

Activated Carbon Adsorption Solvent Recovery & Abatement Systems

Sorpt.X CA activated carbon solvent recovery systems from Dürr can provide the ideal VOC/HAP emissions control solution for manufacturing processes that utilize valuable solvents. When recovered, these solvents could be reused in the process, generating substantial savings when compared with other emissions control methods in which the solvents are destroyed.

Carbon adsorption is also ideal for VOC/HAP emissions systems from manufacturing processes that emit halogenated solvents that would be very costly to oxidize due to the byproducts formed, the peripheral equipment required to treat them and the associated capital costs.

Dürr can also provide process evaluations and new equipment/services to retrofit/update existing activated carbon solvent recovery systems, regardless of the original supplier.

HIGHLIGHTS



[Custom, site-specific designs for each application](#)

[Recover up to 99%+ of solvents for reuse](#)

[Remove VOCs or hazardous air pollutants from manufacturing process emissions](#)

[Increase profitability by reducing solvent expense](#)

Sorpt.X CA

Activated Carbon Adsorption Solvent Recovery & Abatement Systems

CUSTOM DESIGN

Dürr designs and builds completely pre-assembled, skid-mounted Sorpt.X CA systems for installation in sizes up to 20,000 CFM. We also design, build, install and commission larger systems on a total turnkey basis. Dürr also has experience designing and installing solvent-laden air collection duct systems, as well as supplying and installing solvent storage tank farms and utility generation equipment, such as boilers, cooling water systems, etc.

PERFORMANCE ADVANTAGES

- Wide range of airflows and solvent loadings
- Suitable for wide variety of solvent types
- Very high emissions control and recovery efficiencies
- High turn-down ratio

DESIGN FEATURES

- Materials of construction selected for minimal maintenance and extended equipment life
- Designed for ease of maintenance and operability
- Control systems include programmable logic controllers (PLC), operator interface software packages and other key components which are selected on the basis of performance, cost, operator familiarity and compatibility with systems currently at the customer's site
- Remote system monitoring to assist in system troubleshooting

TYPICAL PROCESS/PRODUCT APPLICATIONS

- Chemical/petrochemical
- Pharmaceutical
- Semiconductor and electronics
- Battery separators
- Soil vapor extraction and ground water remediation
- Degreasing
- Foam manufacturing
- Rubber safety gloves
- Paper, film and foil coating
- Publication and packaging gravure printing



Activated carbon solvent recovery system

NON-REGENERABLE CARBON ADSORBERS

Where recovery is not feasible, Dürr offers a range of non-regenerable carbon adsorbers suitable for abating low-mass emissions from a wide range of pollutants, including VOCs, HAPs, solvents, odors and hydrogen sulfide. Once the carbon is saturated with the contaminant, it is replaced with new carbon. Non-regenerable carbon adsorbers can provide a low-capital cost solution in applications in which the total annual emissions are less than 10 tons. These can be provided as simple stand-alone units or as skid-mounted packages to minimize installation and commissioning time.

TYPICAL APPLICATIONS

- Process vents from reactors, columns and vacuum pumps
- Intermittent emissions from dryers and other processes
- Low concentration emissions from solvent processes, including printing, painting and coating
- Odors from food and other organic processes
- To provide a back-up facility for another type of abatement, for example, annual maintenance



Dürr Systems, Inc.
Clean Technology Systems
830 Prosper Street
De Pere, WI 54115
USA

Phone: +1 920 336-5715
E-mail: sales.cts@durrusa.com
www.durr.com