



LDX

SOLUTIONS

Activated Carbon Injection System Dioxin, Furan & Mercury Control

The Dustex® Activated Carbon Injection (ACI) System is an engineered system in which powdered activated carbon (PAC) is pneumatically injected from a storage silo into the flue gas ductwork. The PAC adsorbs the dioxin, furan, or mercury from the flue gas and is collected with the fly ash in the plant's particulate collection device.

ACI is the most established commercial technology for reducing emissions from flue gases. ACI has been proven, through numerous full-scale demonstrations, to be the most effective, cost efficient way to reduce dioxin, furan, and mercury emissions from most boilers. Depending upon the type of fuel being burned and the type of air pollution control equipment installed at the plant, ACI can reduce emissions by more than 90%.

Benefits

- Cost effective
- Dependable, proven technology
- Top quality, utility grade components
- Effective across a wide range of fuels and plant configurations
- Standard equipment design to reduce cost and minimize delivery times
- Designed and built to meet utility and A/E specifications
- High availability and low maintenance
- Operational flexibility
- Fully automated, hands-free operation
- Fail-safe interlocks and alarms
- Can be used with Brominated Powdered Activated Carbon or Amended Silicates

Standard Features

- Silo
- Bin Vent Filter
- Feed Systems
- Instrumentation
- Silo Enclosures (optional)
- PAC Distribution Injection Lances



Standard Design ACI Systems

LDX Solutions offers a large selection of Dustex® standard design ACI systems that are based on our years of experience with the coal-fired power and cement industries. These systems are designed to meet the rigorous requirements of the power plant environment, cement plants, and renewable energy operations, and to operate for extended time periods with little or no maintenance. Our standard top quality components have been chosen for their reliability and cost effective performance.

Custom Design ACI Systems

LDX Solutions has extensive experience working with utilities, cement companies, and their engineering firms' specifications for ACI systems. We can build our systems to meet the strict specifications required for your unique application and ensure that it will operate within all of the limits required. Our team of project engineers and designers will work closely with your engineering team to ensure that all specifications and requirements are built into the ACI system, ensuring seamless integration into the plant where it will be installed.

Mercury Control Guarantees

LDX Solutions will accurately predict the level of control that our systems can provide for your application and give you the assurance of guaranteed performance. We will evaluate your plant air pollution control figuration, along with the type of boiler and fuel. From this information, we will calculate a mercury control performance guarantee for our ACI system.

References available upon request.



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