

INFORMATION SHEET

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Dry PAC Storage and Dosing System for Flue Gas Applications

The Norit Americas dry storage and dosing system has been designed by the leader in powdered activated carbon (PAC) technology to cleanly and accurately dose PAC into a flue gas stream. PAC injection into a flue gas stream is a cost effective method to control mercury or dioxin emissions from coal fired power plants, incinerators, industrial boilers, and metal smelters or furnaces. It is widely recognized as the most effective technology (MACT) for the control of mercury emissions at Municipal Waste Combustors (MWCs). The NORIT silo and feeder system will store bulk quantities (40,000 lbs and up) of PAC, and pneumatically convey a continuously adjustable PAC dosage into a flue gas stream. Customized systems are also available to meet individual needs of the end customer. All units share the following features:

Features

- Dust Free Operation
- High Accuracy Continuous Dosing
- Low Maintenance, Long Service Life
- Automatic Unattended Operation
- Remote Control / Alarm Interface Standard
- Fully Featured PLC Based Control System
- Prefabricated Components for Fast Erection

Advantages

- Lower PAC Cost (Bulk vs. Bag Pricing)
- Reduced Housekeeping Costs
- Reduced Labor Costs
- No Warehouse Space Required
- Minimal Operator Attendance Required

Options

- Turnkey or Component Supply
- Multiple Feed Systems from One Silo
- Rail Car Deliveries
- Loss-In-Weight Systems
- Batch Feed & Custom Designs Available
- Mass Flow / Plant Pacing Control
- Leasing / Lease-Purchase of Entire System
- Remote Telemetry / Automated Ordering
- Wet Dosing Options Available
- Construction, Startup, & Training Support



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The Norit Americas dry storage and dosing system arrives on the plant site mostly prefabricated, greatly reducing on site construction and minimizing disturbance to ongoing plant operations. Once the silo foundation has cured and the dosing skid has been placed, the silo is set in place and the interconnecting piping and electrical connections are completed. The assembled and calibrated system is then ready to dose PAC.



PAC is loaded into the silo from bulk trailers with no required operator intervention. A local control panel is supplied to furnish level indication, preventing the silo from being overfilled. The bin vent filter cleaning cycle automatically engages when the fill begins. PAC is metered from the silo by a volumetric feeder into an eductor. A motive air stream transfers the carbon to the final injection point. The transfer and injection piping is easily installed using compression fittings and schedule 40 pipe with long radius sweeps.

Norit Americas Inc. is pleased to be able to offer our PAC customers the extensive expertise developed in the manufacture and handling of over one hundred million pounds of activated carbon per year. Our systems are designed to be clean, accurate and user friendly. For additional information, a complete equipment specification, or a customized proposal, please contact our Systems & Service group at (800) 641-9245, or by email at info@norit-americas.com.