



Temporary On-Site Sorbent Injection

SORB-N-JECT[®] Technology

for SO_2 , SO_3 , Hg, HCl, HF
Emissions Mitigation

Answering questions about the use of powdered sorbents for emissions mitigation in electricity-generating / industrial boiler facilities just got easier. Nol-Tec Systems now offers its proven Sorb-N-Ject Technology in a variety of portable, temporary/demonstrative designs. These systems are small but complete -- enabling on-site testing, fact finding, and adjustment prior to full-scale system design, installation and start-up.

How It Works

Our portable configuration simulates full Sorb-N-Ject System functionality, but is designed on a smaller scale, usually contained in two or three units.

The first unit holds and feeds the sorbent using a self-erecting vertical silo or bulk bag unloader.

The second unit is a semi-trailer housing the components that make the portable system operate: blowers, compressors, heat exchanger, electrical controls, piping, etc.

The third unit contains a skid mounted sorbent milling system.

Nol-Tec sets-up the system, including hoses to the injection sites. We also dismantle and remove it when the testing and/or temporary period is completed to your satisfaction.

You may have already determined the sorbent most effective for removing the pollutants from your emissions;

*Portable,
Self-Erecting
Silo Requires
No Crane
for Set-Up
Resulting in
Huge Cost
Savings*



however, if you're considering various materials, Sorb-N-Ject Technology and our portable system can aid your decision process with thorough and accurate testing.

Typical Sorbent Materials

- Hydrated Lime
- Trona
- Sodium Bicarbonate
- Powdered Activated Carbon

Nol-Tec can conduct full performance and demonstration testing. Testing time ranges from a few days to several weeks. Temporary injection coverage, while the permanent system is being installed, typically runs 2 to 6 months.

WHY Use a Temporary System?

- Test effectiveness of various sorbents
- Determine proper injection locations
- Verify quantity of chemical required
- Provide temporary sorbent injection while permanent system is being installed
- Provide temporary injection as needed, such as during the ozone season



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SORB-N-JECT[®] Technology

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PORTABLE SYSTEM ARRANGEMENTS



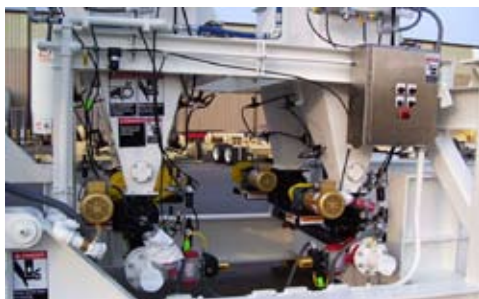
WHY Nol-Tec's Portable Silo?

- Injection Rate Accuracy
- 2,000 cu.ft. Silo Capacity
- Self-Erecting
- Multi Sorbent Capability
- 100:1 Turndown



Rotary Pin Mill System

Nol-Tec provides an in-line, blow through, variable speed mill with all required electrical controls. The skid mounted modular system, which includes a bypass line, sets up easily requiring only a level set down area, and electrical power source. The mill reduces average particle size for trona and sodium bicarbonate which improves SO₂ and SO₃ pollutant removal efficiencies and reduces sorbent usage requirements.



Dual RAL discharge feeders on each convey train.



Bulk Bag Unloader

Nol-Tec supplies a pre-assembled portable bulk bag unloader, along with the loss-in-weight feed system and all electrical controls needed to operate the system. A blower package, heat exchanger and conveying line components are shipped separately. You supply bagged sorbent, electrical power, and compressed air.

Self-Erecting Silo

Nol-Tec's portable, self-erecting vertical silo is installed on a suitable customer-supplied surface and filled with sorbent using a pressure differential, self-unloading truck. A separate tractor trailer contains the motive air blowers, compressor, air dryer, air surge tank, heat exchanger, electrical controls, and conveying line piping components to gravimetrically discharge the materials as required. You provide the sorbent, electrical power, and injection lances on the duct.



Includes all Ancilliary Components

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