

Dry Sorbent Injection Systems

PROVIDING SOLUTIONS TO YOUR EMISSION COMPLIANCE PUZZLE

ADA-ES's Dry Sorbent Injection System

ADA Environmental Solutions (ADA-ES) is proud to introduce our new innovative Dry Sorbent Injection technology for SO₂ and acid gas (i.e., HCl, HF, SO₃) control. Our patent-pending Dry Sorbent Injection System is based on the principle of system-wide thermal, moisture and particle energy management to create an optimized transport environment for alkaline sorbents. ADA-ES's DSI Systems *"Keep it Cool, Keep it Dry, Keep it Slow."*

Whether using Hydrated Lime or Trona, ADA-ES's Dry Sorbent Injection technology increases the functionality and reliability of the system as a whole and allows for hassle-free material handling and conveying.

- Designed to address Ca(OH)₂ reactivity issues (scaling & pluggage) with conveying air
- Minimizes moisture entrained in the conveying fluid, a common issue for sodium-based sorbents
- System achieves good particle dynamics: Results in less turbulent flow and more reliable transport through lower conveying air temperatures, moisture, and moderate conveying velocities
- Eliminates the common pathways that historically resulting in DSI system failure
- Customized designed for each location, plant and unit

Key Product Features

- Cost effective technology for Acid Gas Control
- Operator & maintenance friendly design for high system availability
- Complete In-house engineering and design capabilities, including CFD modeling
- Custom engineered manifolds and lances
- In-house UL listed panel shop
- Full turnkey or material supply only
- System performance guarantees



ADA Environmental Solutions creates and delivers cutting edge technical and chemical solutions to reduce emissions from coal-fired power plants, Portland cement kilns, and industrial boilers