

SYSTEM FEATURES:

CO Monitoring System

From your leading Dust Collection Company

Carbon Monoxide Monitoring Kit

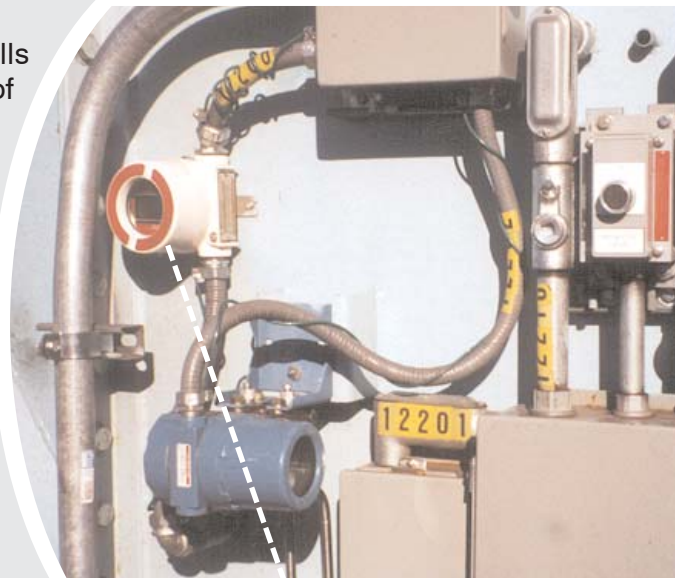
Coal becomes unstable when its moisture content falls below equilibrium. Coal dust is the most unstable form of coal, because its moisture cannot be retained. When there is a reduction in moisture content, the oxidation process is accelerated generating ignition temperature heat and carbon monoxide (CO). If measures are not taken to monitor this process, spontaneous combustion may occur. This presents a problem in coal storage areas and dust collection systems.

Most dust collectors come equipped with fire protection devices such as sprinklers, thermal sensors, or carbon dioxide systems. These devices are to extinguish in the event of a fire, however, they provide no warning before a fire develops.

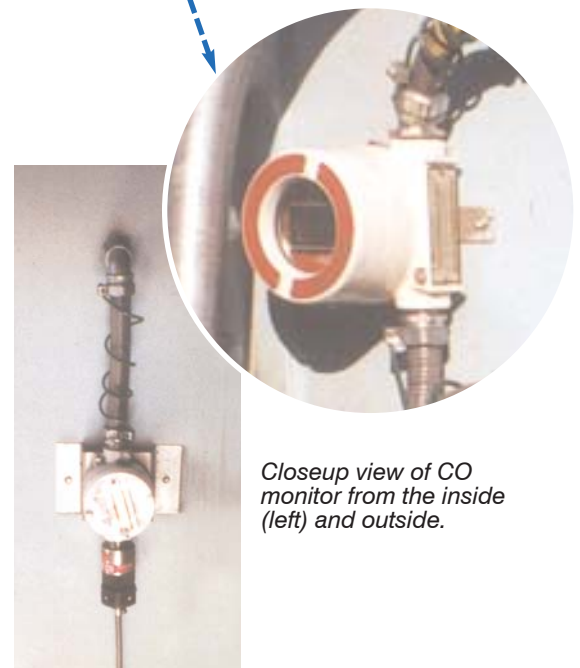
Because of these concerns Air-Cure has taken measures to offer CO *detection* equipment. With a CO Monitoring kit you can achieve higher levels of fire monitoring and detection for your plant. With this technology CO readings can be continually logged from the system, which can indicate a potential problem when levels begin to exceed a pre-determined pattern. Periodic calibration of the unit is required to have proper indication.

The Carbon Monoxide Kit also features:

- ✓ **Electro Chemical Cell to Measure CO**
- ✓ **Replace Sensor: Indicating time to replace Cell**
- ✓ **Sensor Guard: Protects from dirt & moisture**
- ✓ **Local readout of CO level & Remote signal**
- ✓ **Recalibrate from outside the dust collector**
- ✓ **Retrofit Kits available**



Typical CO monitor installation.



Closeup view of CO monitor from the inside (left) and outside.

SYSTEM FEATURES:

Fire Suppression System

From your leading Dust Collection Company

Chemical Injection System

This system is designed to inject a chemical enhancer to decrease the time to extinguish a coal fire, increase safety, and decrease potential equipment damage.

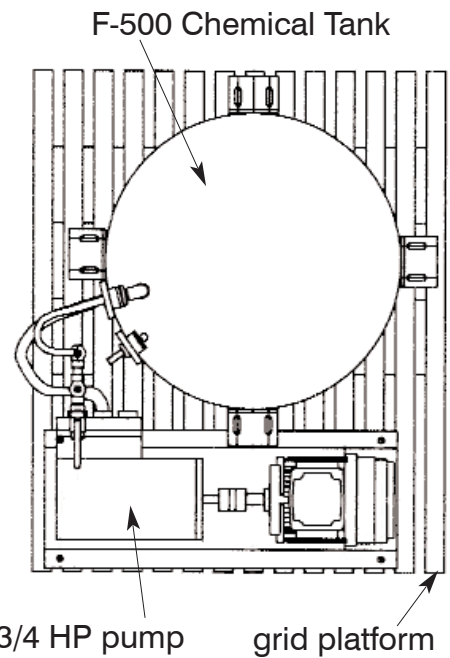
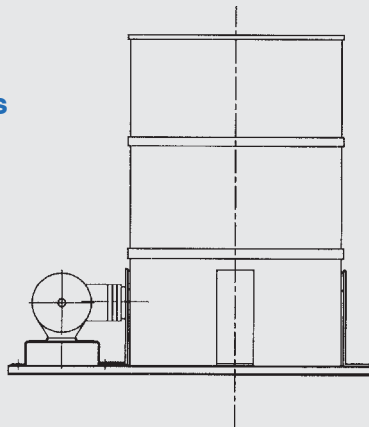
In the event a fire does occur inside a dust collection filter, the fire protection system (sprinkler system) will activate. With Air-Cure's Chemical Injection System, a small amount of F-500™ chemical is metered into the fire water. This chemical has been shown to aid in penetrating coal dust accumulation and extinguish quicker than just water.

This F-500™ chemical is already used by many power plants in their bunker and silo area fire suppression systems.

The Chemical Injection System is compact and can be mounted in the heated support enclosure of your dust collector, or in a heated area close to the fire suppression system.

The Chemical Injection System features:

- ✓ **Compact Design**
- ✓ **Corrosion Resistant Chemical Tank & Fittings**
- ✓ **3/4 HP Metering Pump**
- ✓ **Prepiped on Base**
- ✓ **Electrical Controls**



The above view shows how compact the chemical injection system is designed to be.