

Applications: Duct Protection, Heavy Industry, Petro-Chemical Processing

The Challenge:

A major global manufacture of roofing materials suffered a deep-seated fire in a large 20,000 gallon mixing container that spread via duct work to multiple sealed containers.

In order to prevent the spreading of fire through the ductwork the customer needed to find a flexible low-cost effective solution – and quickly.

Alternatives Considered:

A CO₂ system was evaluated vs Stat-X[®] Aerosol Fire Suppression System



Issue	CO ₂	Stat-X [®] Aerosol Fire Suppression
Limited Floor Space on The Factory Floor	Multiple Large Cylinders	No Cylinders, No Floorspace
Duct Maintenance	Required hard discharge piping running along ductwork	Stat-X generators linked by electrical connections, flexible conduit
Cost of Equipment	CO ₂ tanks, area preparation, valves, piping and nozzles were expensive	Stat-X Generators were considerably less expensive
Cost of Installation	Rigid piping in a complex 3D environment is expensive.	Running low voltage, low current actuation wiring is not
Ongoing Maintenance	Vibrations in this industrial environment require frequent pipe integrity as well as pressure vessel tests	Check continuity, check integrity of Stat-X front seals when performing other duct maintenance—minimal

The Solution:

A combination of an integrated detection, damper and Stat-X Solution using Stat-X 250 E and 500E units in the ductwork and mixing containers.

1. Installation of DAF Heat Detectors in the ductwork.
2. Installation of Dampers to prevent the spread of fire.
3. Installation of a Stat-X Suppression system to suppress the fire and prevent it from spreading.
4. Installation of Stat-X Generators to discharge inside of the mixing containers to prevent a deep-seated hazard from starting.



Solution developed by: United Fire Protection, St Petersburg, a certified Fireaway Distributor

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