

Reusable inflatable duct barriers and structures

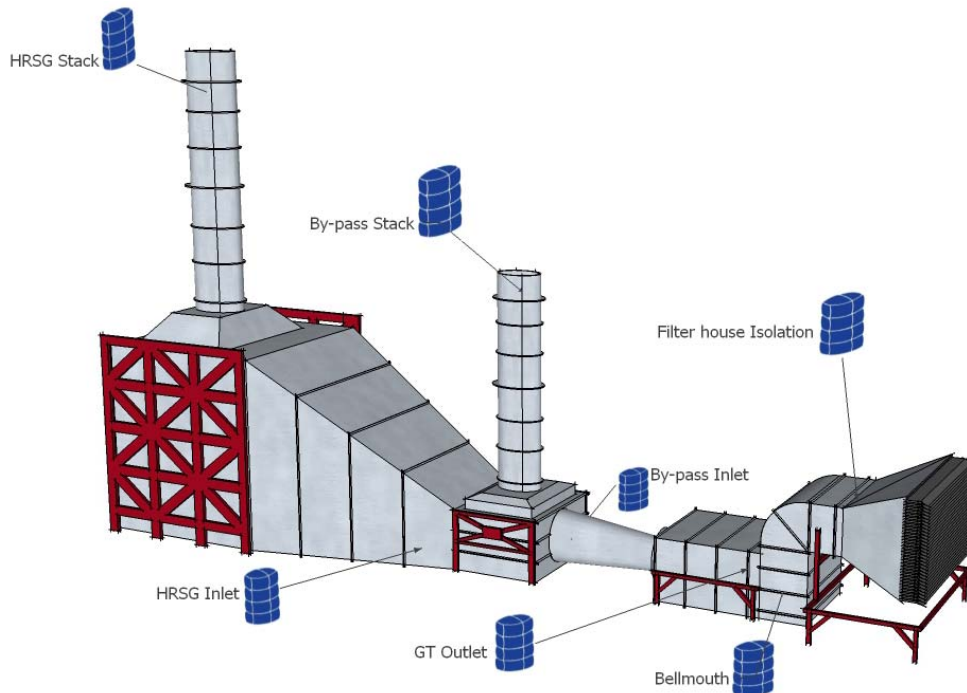
Duct Balloon 

Duct Balloon Features

- Duct balloons are portable barriers that can be inserted into large ductwork through existing man-ways and work much better than wooden frame and/or plastic barriers
- The balloon is constructed out of a durable, acid and mildew resistant fabric, strong but lightweight, rated to a temperature of 250°C
- Can be reused outage after outage
- Using the supplied 110V blower system (attached at all times), balloons typically inflate in just minutes. They can be quickly deflated by opening a large zipper and removed from the ductwork in minutes
- Duct Balloons can be made in multiple sections that are laced together to form one large balloon. Each section has mating air supply connections so the air from the blower can pass through each section



Typical Applications for Duct Balloon



Applications for GT / CCGT plant

- GT Inlet / Bell mouth
- GT Outlet / HRSG Inlet
- Stack / Chimney
- Steam turbine Outlet / Condensor

Other Applications

- Controlling grit blasting dust during precipitator cleaning.
- Auxiliary sealing of damper during catalyst element change outs in SCR's
- Isolating duct work during maintenance of ID fans
- Temporary sealing of the bottom of cyclones and hoppers during outages

Typical Applications

A very common place to install a balloon is on top of or in front of the existing louver damper at the inlet and outlet duct work to provide a way to isolate the pollution control devices (Selective Catalytic Reduction Systems (SCR's) and/or Flue gas Desulphurization systems (FGD's) during inspection and maintenance activities of coal fired power plants

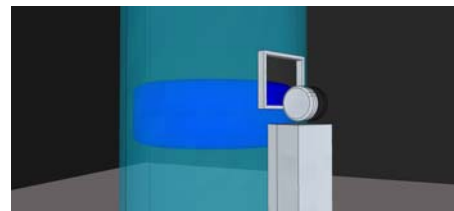
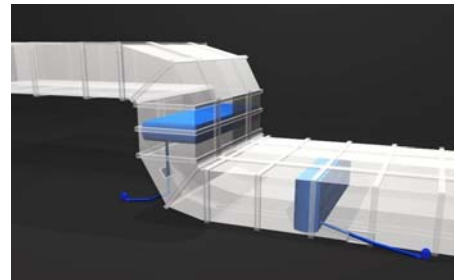
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Another typical location is inside the HRSG's stack to prevent HRSG corrosion due to sitting idle for extended periods of time and variation in temperature and humidity of ambient air. This installation requires an access door, support rod and hardware at the CEMS platform level. The balloon can be installed or removed from outside the stack without entering a confined space

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To reduce the outside drafts from entering the gas turbine, a duct work balloon can be installed in the inlet duct that runs horizontally or vertically

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Installations

Duct Balloon 

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|---------------------------|-----------------|
| • Exxon Mobil | • Aberthaw PS |
| • ESB Lough Ree - Ireland | • Allington WMS |
| • DuPont | • Barking PS |
| • Sellafield Ltd UK | • Tata Steel |
| • VPI Immingham PS | • Keadby PS |