

Activated Carbon Injection for Mercury Capture

CASE STUDY No.

72

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Applications of Fox Venturi Eductors

CONVEYING WITH: · NO MOVING PARTS · NO BLOWBACK · NO MAINTENANCE

PRODUCT

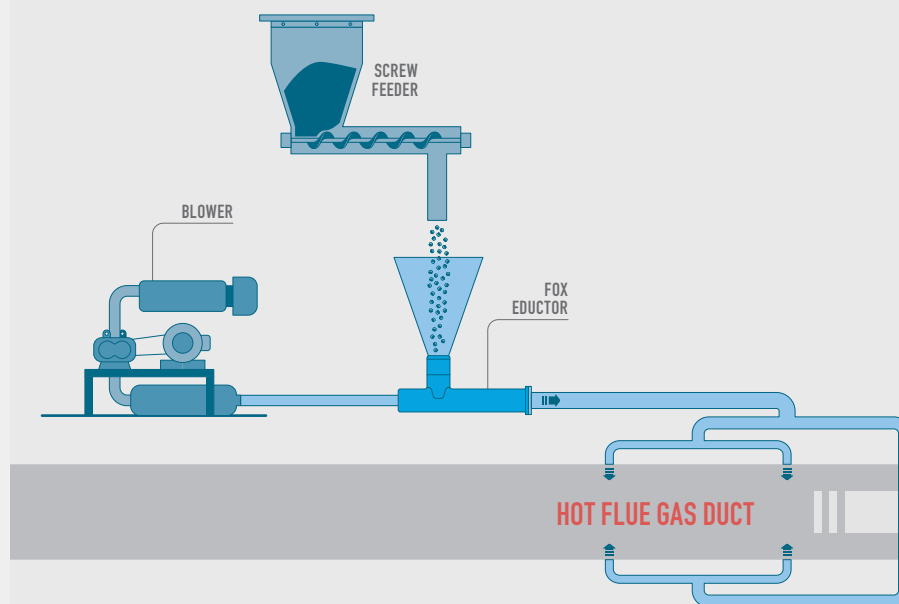
Powdered Activated Carbon, (PAC) - Injected into stack gas to eliminate mercury emissions from incinerators, cement kilns, boilers, etc. 18-35 lb/ft³; 5-500 lb/hr, convey distances of 50-800 ft.

PROBLEM

Mercury (Hg) Capture : EPA regulations require that power plants, cement kilns, and commercial boilers capture mercury emissions. These systems need to be 24/7 reliable.

SOLUTION

Fox venturi eductors are installed under screw feeders at dozens of power plants conveying PAC and BPAC on hundreds of lines. Ceramic lined eductors are often used because brominated activated carbon is both abrasive and highly corrosive. For short systems, below 200 ft, side channel blowers are often an option. For convey distances from 250 - 800 ft, Fox provides matched pd blowers running at 8 - 12 psig to drive the eductors.



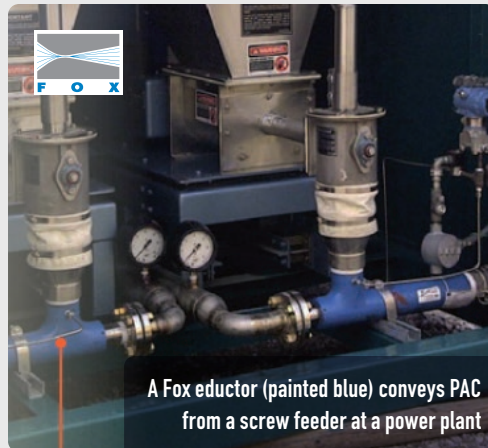
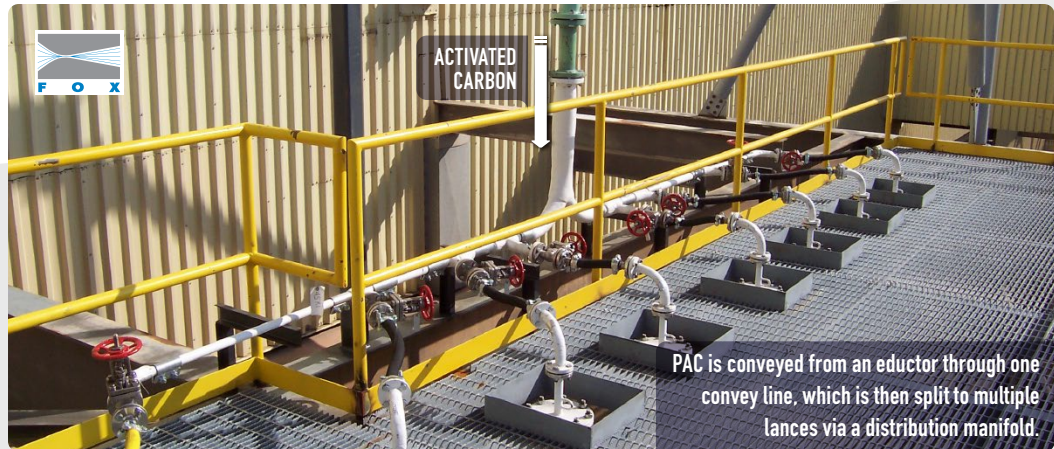
FOR MORE INFORMATION:

 [Video \(50 sec\) - Screw Feeder Doses Eductor](#)

 Visit our [Pollution Control](#) Page

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Hundreds of Fox venturi eductors are conveying activated carbon - at some of the largest coal burning power utilities, waste-to-energy plants, small cogen boilers, and hospital incinerators. As shown in schematic, screw feeders dose PAC to an eductor, which can then convey up to 800 feet or more. Convey line can then be split to multiple injection lances, via line splits or a more complex distribution manifold. PAC injection into a large duct at a utility from a Fox eductor is shown above (top.) Above right, an eductor conveys into a simple line splitter via a Y-fitting supplied by Fox.

