



# Corrosive Resistant Application

**Hartzell Equipment:** Model S41P0-242FA100FGFMP3

**Ship Date:** February 2002

**Application:** (Reference 17WI-1)

## Exhausting Hydrogen Sulphide from Waste Water Treatment Building

The end user had tried several different steel fans using various grades of steel including 304 and 316 stainless, carbon steel with an epoxy coating, carbon steel with an inorganic zinc coating, aluminum, etc. and had little to no success. The Hydrogen Sulphide concentrations within the space were so high that it was eating the hardware and getting under the coatings where the units were bolted to the duct. The smallest chip in a coating created immediate pitting within the housing of the fan. As the housing was eroding, more air was being drawn through the holes in the ductwork and fan housing than through the capture hoods.

We decided to use a Hartzell Fan Series 41 Fiberglass Backward Curved Centrifugal located outside of the space in conjunction with PVC ductwork to solve the problem.

## Customer Comments:

As of November 2004, the fan is still in operation and is running just as the day it was installed. "I am extremely happy with the results and have been running one fan now for almost three years. With our old system of 'try this fan this time,' we would have been installing our third fan by now. The Hartzell fan is perfect for our environment."

To learn more about the Series 41P fan, click here:

[http://www.hartzellfan.com/lib\\_pdf/Bulletin\\_A-160-D.pdf](http://www.hartzellfan.com/lib_pdf/Bulletin_A-160-D.pdf)

