

VORTI-SIV

FILTRATION CASE STUDY

THE CUSTOMER

An Ohio paint and coatings manufacturer specializing in latex-based traffic paint and architectural coatings.

THE APPLICATION

Filtering water-based traffic paint prior to packaging 5 gallon cans or 55 gallon drums. Flow rates from 60 to 80 gpm / hr. are required at 300 micron.

THE PROBLEM

Filtering water-based traffic paint prior to packaging 5 gallon cans or 55 gallon drums. Flow rates from 80 to 100 gpm / hr. are required at 300 micron.

THE SOLUTION

The installation of three Model DN80 (3") stainless steel fully-controlled electric driven self-cleaning filters with 2" auto-dump valves. A special reinforced 300 micron wedge wire screen element and spiral discharge to assist debris removal is incorporated.

THE BENEFITS

Minimum Product Loss -

Minimal amounts of good coating are lost during the debris dump cycle. The special spiral enables the debris sometimes as high as 2% to flow directly into the automated dump valve.

Increased Production / Disposal Savings-

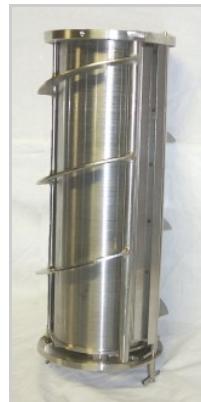
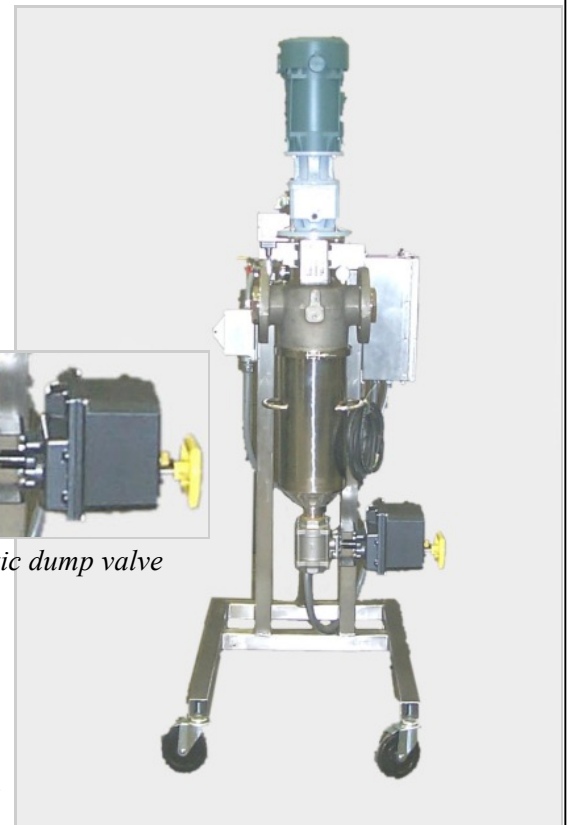
The self-cleaning filters allow higher throughput per hour with permitted line pressure. Several thousand dollars of annual savings was achieved by eliminating the use of disposable bags.

Reliable -

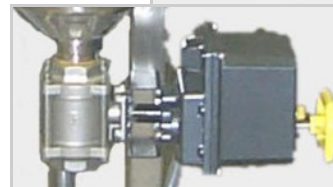
The VORTI-SIV® filters were more reliable, needing only minimal maintenance. The filter, which was designed to withstand a 200 psi pressure rating, operates mainly at 40 ^{psi}

Portable & Efficient Operation -

Removing particles greater than 300 micron insured that the traffic paint had a consistent, smooth finish and does not block the applicator nozzles. The DN80(s) were mounted on a portable mounting stand for easy in-plant mobility.



DN80 element
with discharge
spiral



Automatic dump valve

All-stainless-steel model DN80 with full electric controls including XP motor/drive & NEMA 4 controls & portable stand



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