VORTI-SIV

INLINE PAINT & COATING CASE STUDY

THE APPLICATION

Houston-based paint and coatings manufacturer needs final filtration of oil-based and latex architectural coatings before packaging into one or five gallon containers. The unit must be totally enclosed to prevent V.O.C. escape.

THE PROBLEM

The need to remove small agglomerates and oversize debris after the dispersion/mixing process that will easily blind bag and cartridge systems. A filtration of 50 micron is required for most products. A 2“ diaphragm pump is utilized to transfer continuously inline from the 1000-gallon mixing tank.

THE SOLUTION

The installation of an RBF-2 sieve gyrating at 3300RPM frequency to achieve process rates from 20-25 gpm. An inline tower with Camlock® and flexible hose support along with a 2” coupling outlet to mount a pneumatic discharge valve.

THE BENEFITS

Quick Clean-up and Color Changeover -
Only three (3) stainless steel 22” diameter product contact parts enable faster coating clean up. The optional removable inline dome cover with 2” inlet allows splash free/inline straining. All V.O.C.(s) are maintained within the system.

Portable Sieve –
The standard RBF-2 is mounted on three (3) swivel casters. This enables the flexibility to move the unit from tank to tank or between packaging lines.

Reduced Screen Element Costs –
The RBF-2 nylon screen element does not blind with the high 3300RPM frequency gyration. Less replacement screens are needed. Disposal costs of used filtration materials are greatly reduced. The RBF-2 has enabled a more environmentally compatible process.

Inline model RBF-2 with inline tower and 2” coupling outlet

2” coupling outlet

Special Features –
The RBF-2 is available with special discharge heights from a minimum of 27” to a maximum of 84”. Standard discharge height is 39”.

Typical 22” diameter contact parts

VORTI-SIV® A DIVISION OF Industries, Inc.
36135 SALEM GRANGE
SALEM, OH 44460
Ph# 330-332-4958
1-800-227-7487
Fx# 330-332-1543
www.vorti-siv.com
info@vorti-siv.com