

Technical Bulletin

THE TECHNICAL BULLETIN

A technical source for the employees and clients of Osprey Corporation.

Subject: Optimizing the Drum Filter Media Cleaning Process

Maximizing return on investment by saving on raw materials and replacement parts is more important now than ever before. By cleaning the drum filter media as fast and efficiently as possible, our customers can save money while improving the critical core forming process.



Today's growing dosages of super-absorbent polymers in combination with high-speed production machines have placed traditional drum filter media cleaning systems under a considerable strain. With newer product developments and higher SAP/AGM/SAM amounts, comes the need for updates and improvements to the filter cleaning systems.

New developments can be customized for those looking to significantly increase the drum filter media lifetime as well as minimize core weight variation at the forming process. Raw material cost savings, increased production time, and fewer spare part requirements are all achievable results from a cleaning system upgrade. Additionally, improved emissions and worker health and safety are more important reasons to optimize older cleaning systems.

Cleaning Fans:

New efficient high-vacuum cleaning fans are important for improved cleaning results. These fans deep clean any filter media and work well with our new higher density filter media. A cleaner drum

will reduce material accumulation inside the filter. Accumulation inside the filter is a potential safety risk and increases maintenance downtime resulting in lost production. A constant vacuum and stable airflow conditions at the inlet of the filter will assure a sound core forming process that will save on raw material costs 24 hours a day.

The Rotary Diverter Valve (RDV):

The original Osprey filters used pneumatic flap-type diverter valves to switch the media cleaning vacuum from one nozzle to the next. Later, copies of the Osprey system included these valves as well. These valves have problems with air leakage and can block materials such as tissue. A major improvement over the pneumatic diverter valve is the Osprey Rotary Diverter Valve (RDV). The new RDV is sealed against air leakages and gently changes cleaning from nozzle to nozzle. The advantages of the RDV are higher vacuum cleaning pressure at the media, very stable airflow, and superior material recycling back to the core forming section.

Additional Improvements:

High efficient cleaning nozzles can assist the cleaning of different fiber types and loadings. Drive upgrade kits are also available to clean filters as quickly as possible decreasing the chances of material buildup in the enclosure. New media types have been developed to allow filter media to be application and product specific. Please see our Spring 2004 Technical Bulletin for more information concerning new media developments.

As an integral part of the core forming process, maximizing the cleaning process is an excellent low cost way to save on manufacturing and maintenance costs. Upgrade kits are available for Osprey filters and low cost copies where the cleaning systems are either outdated or may have been compromised. For more information concerning your system, please contact your Osprey representative for a free evaluation. ☺

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