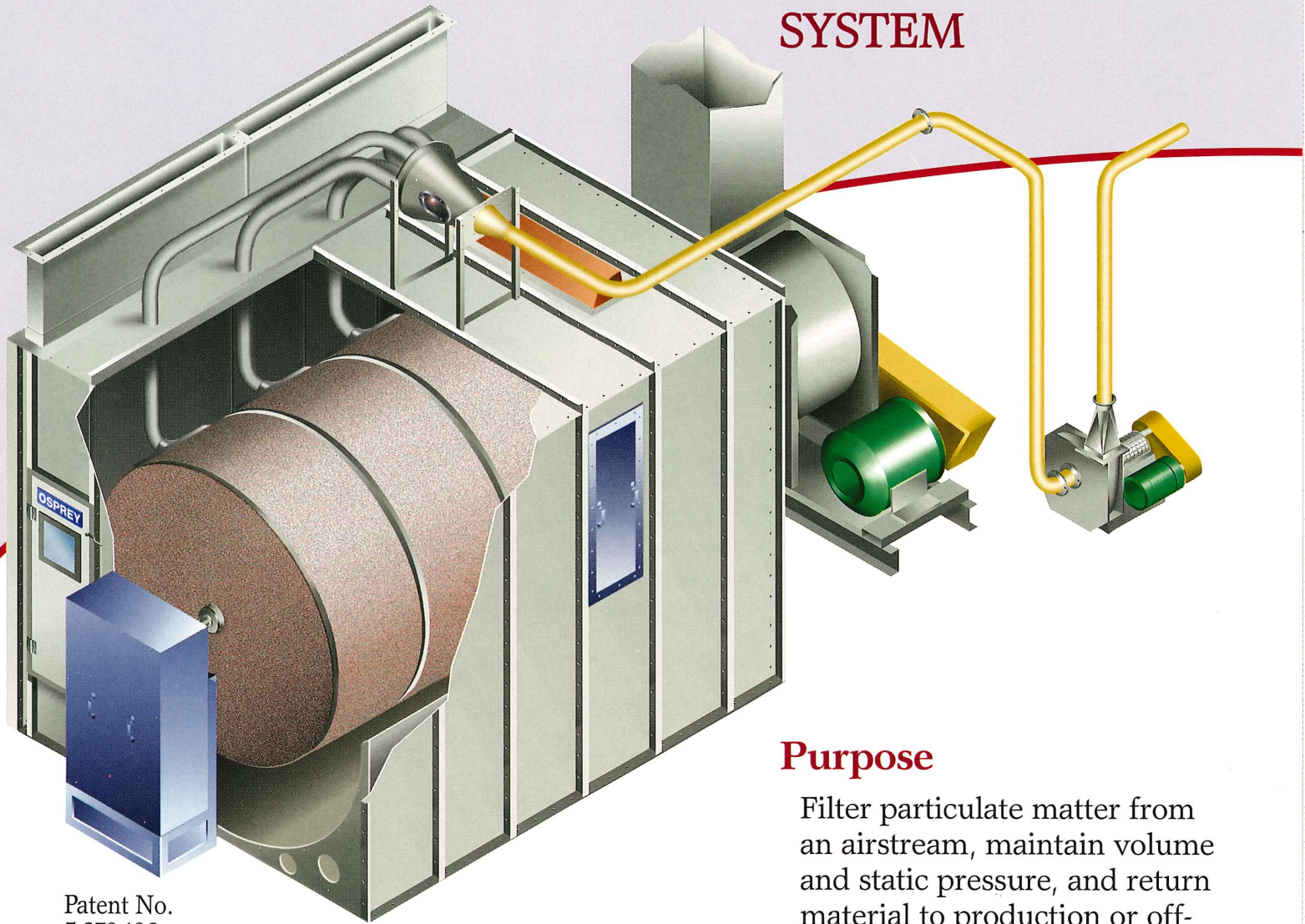


NEW TOP INLET PHOENIX™ DRUM FILTER SYSTEM



Patent No.
5,679,136

Purpose

Filter particulate matter from an airstream, maintain volume and static pressure, and return material to production or off-line collection. Advanced design virtually eliminates dust accumulation in the enclosure, and greatly reduces potential for dust explosions.

Application

Filtration of fibrous material from production processes for soft disposable products, textiles, plastics, fiberglass, and pulp and paper products.



OSPREY
CORPORATION

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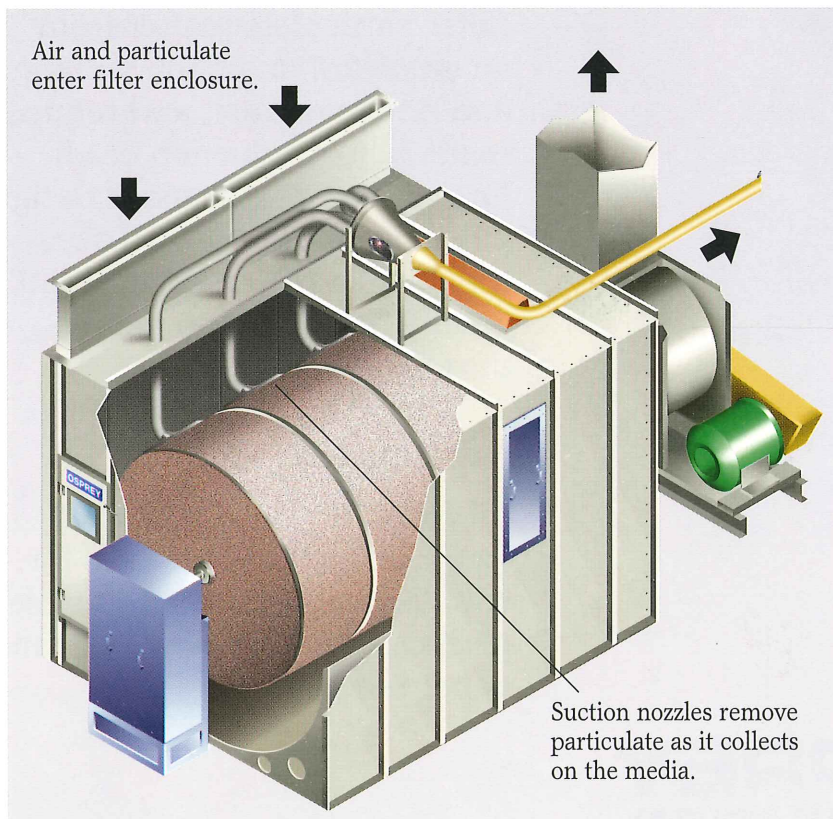
Operation

Like the standard drum filter, the Phoenix has a rotating drum inside an enclosure. Air and particulate are ducted to the enclosure, where the air is pulled via a main system balancing fan through the filter media covering the perforated drum. Dust and particulate matter remain on the media, and are removed by an arrangement of suction nozzles as the drum rotates against them.

New Spliced Continuous Drum Seal

We have a new continuous drum seal that is a single piece of either rubber or silicone that wraps around the drum and then the two ends screw together. The silicone version will also delete the need for the Osprey Auto-Lube because the silicone seal does not require lubrication.

Clean air is pulled through the filter media by the main system balancing fan, leaving particulate on the filter media.



Features

- Contoured interior engineered to prevent dust accumulation inside the enclosure.
- High speed outside drive and exterior fluorescent light assembly for a non-electrical interior.
- Reduced floor space requirements.
- 360° media surface to maintain uniform nozzle flow.
- Predictable and constant air pressure for reliable, continuous suction.
- Self-cleaning design to return fiber to forming process or off-line collection.
- Advanced nozzle mounting design with new cam operated rotary diverter valve.
- New spliced continuous drum seal.

Options

- Cartridge filter for 99.95% efficiency.
- Composite filter for 99.999% efficiency.
- Multi-line system.
- Factory wired and assembled on structural base.*
- Conversion of standard drum filters.

Efficiency: 99.5%.

Electrical Requirements: Operates at world voltages.

*Not available in all sizes