

# Technical Bulletin

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

## Technical Bulletin: Basic Osprey Filter Maintenance

The Osprey filter is built to last for generations. You should properly maintain your investment to insure maximum machine output and safety. Using the following easy to use filter maintenance guidelines will help any plant professional protect your valuable investment.

### Filter Media Maintenance:

A pressure gauge is included on the control panel. This gauge monitors the current operating condition of the filter's media. Over time, the media will become blocked, thus restricting process air flow through the media. Typically, the gauge will read 0.5" (125 pascals) of pressure with a new filter media. This pressure, called differential pressure, will rise with use. Osprey recommends that you schedule a media change once the differential pressure reaches 2.5" (622 pascals). For optimum performance, Osprey offers a variety of media that can be used on all its filter models.

### Drum Seals:

The filter has two seals. They are the primary and secondary seals. The primary seal is a canvas wax impregnated seal. The secondary seal is a silicone rubber seal. The seals are located between the rotating drum and the stationary plenum wall. When these seals become frayed, torn, or loose they need to be replaced to prevent leakage. The auto lubricator located outside the enclosure keeps both seals in good operating condition. The silicone powder level in the auto-lube needs to be maintained at all times.

### Setting and Maintaining Nozzles:

The aluminum vacuum nozzles work in conjunction with the rotary diverter valve, RDV, to remove particulate from the filter media. The nozzles should be adjusted so that there is a space of approximate-

ly 3/8" (9.5mm) between the media and the nozzle surface. Nozzles need to be inspected for wear and replaced if damaged. Blockages in the nozzles should be checked and removed. Worn flex hose with leaks will cause poor filter cleaning and should be inspected and replaced if necessary.

### System Fans:

A definite time schedule for inspecting all rotating parts and accessories should be established. Inspections may be monthly at first in order to establish a schedule. V-belts are to be included in this inspection. If belts squeal at startup they are too loose and should be tightened. Belts should deflect about 1/64" (.4mm) per inch of span length with approximately 20 pounds for force. The main fan and the nozzle fan wheel need to be inspected quarterly. Particulate buildup on the main fan wheel indicates that too much material is passing through the filter. This will eventually cause major damage to the fan. The vacuum nozzle fan wheel needs to be checked for wear. SAP can wear the wheel over time reducing the capacity to clean the media.

### Lubrication Schedules:

The Osprey filter should be incorporated into the overall plant maintenance lubrication program. Parts requiring attention are drive bearings, fan and motor bearings, gear reducer oil, and the seal auto-lube system.

### Basic Fire Protection and Lighting:

Sprinkler inspections should be made on a regular basis to detect possible damage or leaks. Replace lights as needed and repair any open junction boxes or exposed wires. Replacing old Lexan windows with our new abrasion resistant Lexan will make visual inspections much easier.

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Maintenance Item	Weekly	Monthly	Quarterly
Check pressure differential gauge.	X		
Visually check media and vacuum nozzles.	X		
Check for accumulation of particulate on floors.	X		
Inspect media and seals for looseness or damage.	X		
Check for proper diverter valve operation.	X		
Check auto-lube to insure proper lubricant level.	X		
Check drum drive including reducer and motor lubrication.		X	
Check condition of fan belts.		X	
Visually check system for damage or leaks.		X	
Lubricate fan and drum bearings.			X

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