# Filtration without the mess or stress

## New and improved Filter Management System™ eliminates operator involvement and minimizes good product wastage.

Russell Finex has recently launched a NEW and improved Filter Management System™, developed for liquid filtration systems such as the Self-Cleaning Russell Eco Filter® to eliminate operator involvement and minimize good product wastage. It achieves this through precise monitoring and control of key operating parameters.

The purpose of installing a filtration system into your process line is to improve and/or safeguard product quality by removing oversize contamination. The characteristics of the oversize can vary hugely, dependant on the application but in all cases a system must be put in place to ensure that it is discharged regularly and safely. This is particularly important when processing hazardous products that may cause injury to operators if handled incorrectly.

The Filter Management System™ (FMS) is retrofittable to many filtration systems and is able to control the oversize discharge automatically, eliminating the need for operator involvement. This increases the safety of operators while also saving time and labor costs. In addition, since the system is monitoring line and differential pressure, it is able to prevent any risk of damage to the filter and to up or down stream processes if an overpressure condition occurs in the system.

The new and improved Filter Management System™ has been updated, utilizing the latest in control technology to provide more features along with a new simple menu structure making the system easy to setup and operate saving you valuable time.

The standard system features:

• Oversize discharge via timed cycle - Controlling the operation of the oversize discharge valve using timers to control the period the valve is open and closed. The timers are fully adjustable and continually cycle.

• Rapid Cycle to remove blockages - When product oversize proves difficult to discharge, the valves can be automatically opened in quick succession to dislodge the problematic oversize removing the need for costly downtime.

• Oversize discharge through pressure monitoring - With the addition of two pressure transmitters mounted to the inlet and outlet of the filter, the system can monitor both differential and line pressure across the screen. This allows you to set a maximum limit to ensure oversize is discharged safely.

**The Russell Filter Management System™ installed on a typical food processing line**

- Saves time and labor
- Increases safety
- Protects your filter element

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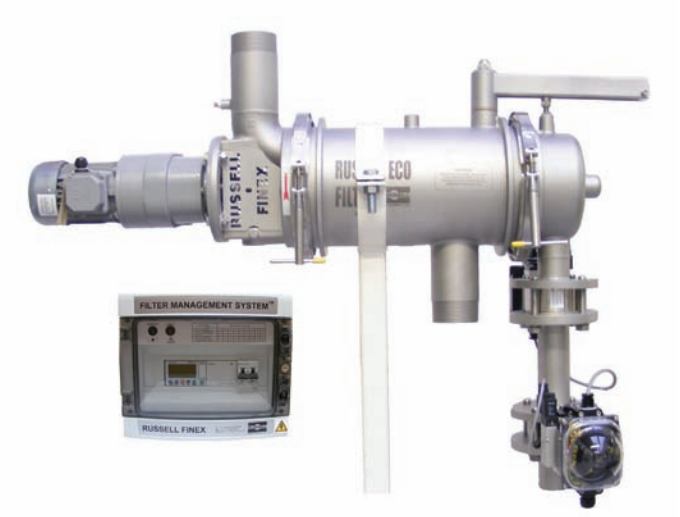
The system can be further enhanced by including various additional features such as ‘screen detection’ that triggers an alarm if a filter screen is not fitted. Another useful feature that is available is ‘Maximum screen differential pressure’ preventing screen damage due to the differential pressures exceeding the maximum rating of the screen. If the differential pressure rises above the value set, the alarm will be triggered. A common problem within enclosed production lines is how to prevent overpressure from damaging equipment. Therefore the FMS can be supplied with the ‘over pressure indication’ function. This monitors the upstream line pressure in the event that this pressure rises above the maximum filter rating (user settable).




**The new Russell Filter Management System™ installed on a Russell Eco Filter®**

Another useful option allows the FMS to be set up to control more than one filter at a time and the ‘remote stop/start’ upgrade option makes installation of the FMS effortless as well as simplifying the control of your filtration systems. This new system now also has the ability to connect using either modem, serial link, USB or Bluetooth connectivity as well as Modbus TCP Ethernet Protocol. This makes it simple to install with no extra wiring required, saving on installation time and costs.

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