The Self-Cleaning Russell Eco Filter®

Ensure your reputation and win more business.

The Self-Cleaning Russell Eco Filter® is ideal for high capacity filtration of liquids. It improves the quality of your liquids and ensures your reputation, therefore winning you more business.

Safeguards your reputation
- The Self-Cleaning Russell Eco Filter® ensures the quality of your liquids by eliminating any oversized contamination.
- Total containment of your product prevents any airborne or other contamination from the local environment polluting your product.

Protects your operators & environment
- Totally enclosed filtration protects your operators from hazardous products, fumes and spillage. It also ensures that your production area stays clean.
- The re-usable filter element removes the need to handle and dispose of messy bags or cartridges.

Increases your productivity
- Higher capacities are achieved through the continuously cleaned filter element.
- Cleaning between batches is quick and easy without the need for tools. This means minimal disruption during product changes and significant savings in labor and downtime.

Reduces maintenance costs
- The re-usable filter element removes the need to replace and dispose of bags or cartridges. This reduces labor and running costs as well as eliminating landfill charges.

Flow Rate Guide

- The Flow Rate Guide below shows the relationship between screen size and throughput in a range of operating conditions.
- The guide is based on a maximum pressure drop of 0.1 Bar.

For screen sizes under 100 microns contact us for further information.

Russell Proven Technology made even more effective through working closely with our customers.
**Ensure your product purity**

**Improve your productivity**

The Self-Cleaning Russell Eco Filter® accurately removes over-zealous impurities from all types of liquids and pastes. The unique SpiroKlene™ system continuously cleans the surface of the filter element and ensures optimum filtration efficiency. This allows for high and consistent flows, which are ideal for filling operations and continuous production lines. The Russell filter gives you higher production rates compared to other filter systems, therefore increasing productivity. The units fit neatly into existing production lines, providing considerable savings to be achieved by minimizing product loss during manufacture and the control of what is finally reaching the consumer. The totally enclosed Russell filters eliminate the risk of any contamination entering your product and prevent environmental pollution from fumes or spillage.

Some of the industries Russell has helped:

- Confectionery
- Chocolate
- Dairy
- Food
- Flexographic
- Heat set
- Cold set
- Offset
- Inks
- Resins
- Gel coats
- Wood coatings
- Latex
- Plastisol
- Adhesives
- Coatings
- Resins
- Clay Slip
- Abrasives
- Ceramics
- Primer
- Industrial
- Automotive
- Emulsion
- Gloss
- Plastic/Rubber
- Pharmaceuticals
- Agrochemicals
- Chemicals
- Detergents
- Catalysts
- Cosmetics
- Pharmaceuticals
- Plastic/Rubber
- Textiles
- Paper
- Packaging
-.UNI® Film
- Paper Coating
- Paint
- Rubber
- Pharmaceuticals
- Metal Slurries
- Tallow
- Starch
- Effluent
- Water Treatment
- Waste Oil
- OTHER LIQUIDS
- Minerals
- China Clay
- Extraction
- Diamond Dust
- Steel cutting fluids
- Glass
- Porcelain
- Resin
- FRP
- Metal Slurry
- Metal Particles
- Conventional Filtration
- Grinding Fluids
- Plastic_Final
- Food
- Beverages
- Breweries/Distilleries
- Industrial
- Automotive
- Emulsion
- Gloss
- Plastic/Rubber
- Pharmaceuticals
- Agrochemicals
- Chemicals
- Detergents
- Catalysts
- Cosmetics
- Pharmaceuticals
- Plastic/Rubber
- Textiles
- Paper
- Packaging
- UNI® Film
- Paper Coating
- Paint
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- Paint
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- Metal Particles
- Conventional Filtration
- Grinding Fluids
- Plastic_Final

**Safeguard your reputation & win more business**

**Protect your operators and environment**

The range of filters is designed for ease of operation and maintenance. They are simple to dis-assemble and clean without tools, allowing for fast and efficient product line changeovers, therefore increasing productivity. The units fit neatly into existing production lines, providing considerable filtration capacity without requiring excessive space. Explosion proof and flameproof units are available including ATEX certification in Europe if required.

The re-usable filter element eliminates the costs and environmental implications associated with bags and cartridges - e.g. mess in your production area, ongoing replacement & disposal costs. It also safeguards the health of your operators by reducing their exposure to the product.

We recognize the importance of controlling waste; the savings to be achieved by minimizing product loss during manufacture and the control of what is finally released into the sewage system. At Russell Filters we are committed to working closely with customers around the world, supplying solutions to your problems and keeping up to date with changes in legislation that affect your industry.

Over the last 75 years we have solved the filtration problems of almost every type of manufacturing company in the world and often provided customized solutions.

A range of 8 models with a choice of installation to suit your application needs

- **Jacketed unit**
  - Heating jacket maintains a high product temperature, e.g. in chocolate processing.
  - **High temperature unit**
  - Capable of handling liquids such as cooking oils and meats up to 250°C/482°F.
- **Straight wiper systems**
  - Ideal for paste type liquids or very difficult to screen liquids.

A choice of filter elements are available to meet the specific demands of your industry

- **Wedge Wire microscreen**
  - Increases filtration capacity and offers longer screen life due to the robust design.
- **Defined hole microscreen**
  - Provides more accurate filtration than standard screens - the reliable choice when product quality must be beyond criticism.
- **Defined hole supported microscreen**
  - Suitable for continuous, high volume filtration where higher running pressures may be required.
- **Hardened microscreen**
  - Specially hardened screens provide extended life and wear resistance against abrasive products.

**Easy installation...whatever your process**

- **In-line design**
  - This unit is easy to fit into existing pipework without the need for a specialist pipe fitter.
- **On-line design**
  - Operates on a unique flow-through principle, which eliminates any dead spots, giving you high volume, continuous operation.
- **Horizontal On-line design**
  - Strip-down and cleaning time is reduced further. It is even easier to fit into production lines where headroom is limited.
  - The filters are designed to operate at pressures up to 15 bar (220 psi). Higher pressures available upon request.

**Remove operator involvement with the Russell Filter Management System™**

The system continuously monitors the filtration process enabling the filter to run efficiently without operator involvement. This means reduced labor costs and increased productivity.

- **Instantly save money - the system dramatically reduces good product loss**
- **Reduce labor costs - no manual supervision is needed.**
- **Easily retrofits to all types of filter.**