

European Filter Solutions Limited

V3 Vertical Separator



Official Distributors for

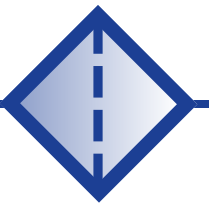


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V3 Vertical Separator

The Industry Standard

The **SmartSkim**[®] **V3 Vertical System** sets the industry standard for skimming and separating floating oil and solids from industrial fluids. It is designed as a simple, trouble-free solution for removing free floating and mechanically dispersed tramp oils from wash tanks and individual machine coolant sumps. Based on gravity flow and coalescence, the Vertical Separator can reduce tramp oils to less than 1% in a single pass. The **SmartSkim**[®] "non-clogging" design allows for floating of oils and settling of solids in one step. Applications include water soluble, semi-synthetic & synthetic coolants from machining and grinding, rolling and drawing coolants, alkaline and acidic washwaters, stamping fluids, wastewater pre-treatment, quench pits, die casting mold release fluids, and any application where separation of two immiscible fluids is required.

What Makes SmartSkim[®] Better?

- Open Channel coalescing technology is low maintenance and non plugging. Frequency of cleaning is a fraction of what is required with competitive tortuous path plastic media coalescers.
- The V3 System is manufactured of mild steel. It's robust and industrial grade for a lifetime of use.
- Cone bottom for easy removal of solids and sludge.
- Quick system payback.
- Automated system for continuous operation.
- World's best floating suction skimmer - all stainless steel design and no hoses that kink, harden or collapse. Easily set and minimal adjustments.



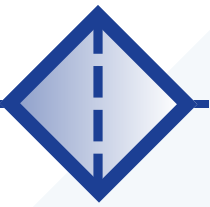
V3 with 304 stainless steel air diaphragm pump and pedestal mount

Benefits of SmartSkim[®] Systems:

- Reduce new fluid purchase costs up to 75% by extending the life of those fluids.
- Reduce waste volumes by 50% - 90%.
- Separated tramp oils can be sold or recycled.
- Reduce cost of wash water detergent, heating & disposal costs.
- Consistently cleaner parts.
- Improve sump life, tooling, and parts quality.
- Reduce misting and smoke, machine cleanliness, environmental waste disposal, bacteria levels and their associated odours.



V3 mounted next to heat treat parts washer



V3 Vertical Separator

Design Standard

Our multi patented **SmartSkim® suction skimmer** is mounted in your tank and continuously removes the topmost oily layer. Skimmed oily fluids are pumped through the separator where floating contaminants are separated. Clean fluids return by gravity to the source tank. Inside the **SmartSkim® Vertical Separator**, there is no plastic coalescer media, filters, or consumables of any kind. Our proprietary open channel system separates and removes floating oils and solids by gravity only. This makes maintenance fast and easy. Open channels do not plug. **SmartSkim® Systems** just run and run. Oil that is captured inside the separator gravity drains automatically to a capture drum. This oil is typically dry enough to sell or recycle. No electrical panels or hook ups are normally necessary. The Vertical System is entirely pneumatic. It runs on plant air, typically using just 1 - 3 CFM. Just plug and play! **SmartSkim® is the industry standard.**



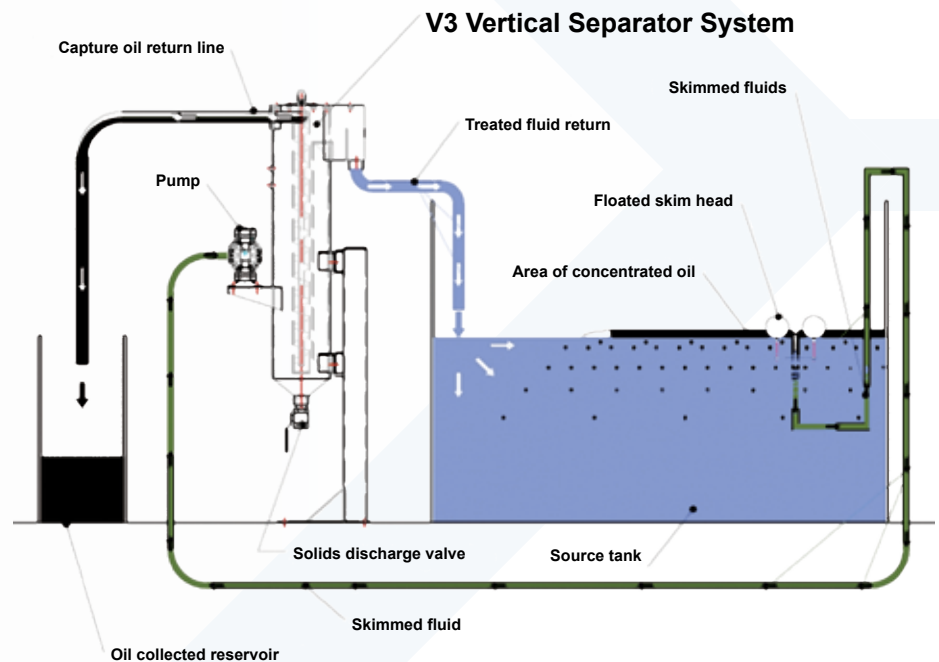
Top view of V3

12" x 16"



Pedestal Mounting Stand with pre-drilled holes for ease of installation to plant floor

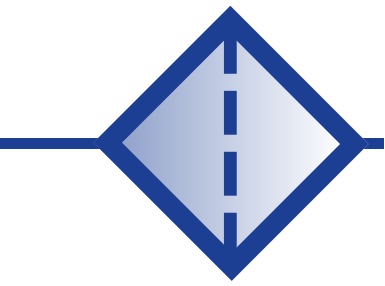
Our suction skimmer at work



Sizing

The V3 Vertical Separator takes up very little floor space. The unit has a footprint of 25" x 13" x 76" tall. The standard unit includes a pedestal mounting stand, but the separator can be provided without the stand and could then be attached to existing tank or other structures. Due to the nature of the gravity discharge, our separator needs to be installed with the clean outlet port above the level of the fluid that it is cleaning. The standard suction skimmer that is included with our systems requires

an area of 12"x12"x14" deep within the source tank that it will be installed. Other suction skimmers are available to deal with restricted space constraints or low fluid levels.



European
Filter
Solutions
Limited

Official Distributors for  **SmartSkim**[®]
Contaminant control for industrial fluids

European Filter Solutions Ltd provides advanced Filtration and Separation Solutions, for a diverse range of filtration disciplines and Industries in the UK and Overseas.

“Our aim is to provide a high level of technical service and expertise to assist our customers in reducing their total operating costs. To achieve our aims, European Filter Solutions Ltd combines the strengths of world class suppliers with our application expertise, to provide you with cost effective solutions for all filtration related problems.”

Our capabilities include :

- **Technical Design, Supply and Installation of all types of new filtration systems.**
- **Upgrading of existing systems.**
- **Supply of original Filters.**
- **Supply of a wide range of alternative upgrade filters.**

We are based in the heart of the industrial area of South Yorkshire in Harworth Nr Doncaster, close to the A1 motorway network and Doncaster Robin Hood Airport.

**European Filter Solutions Ltd
are here to meet your filtration challenges.**

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