

# European Filter Solutions Limited

## Crossflow Separator



Official Distributors for

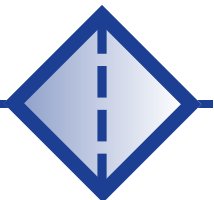


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## CrossFlow Separator

### The Industry Standard

The **SmartSkim® CrossFlow 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, individual machine coolant sumps, and central coolant systems. Based on gravity flow and coalescence, the CrossFlow 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.

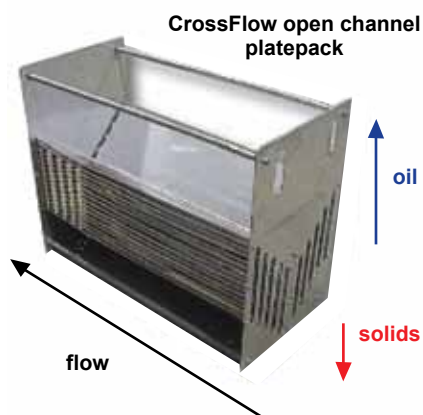
### What Makes SmartSkim® Better?

- Open Channel coalescing technology is low maintenance. Frequency of cleaning is a fraction of what is required with competitive tortuous path plastic media coalescers.
- Non plugging design means no worries about overflowing of the unit and spills.
- Robust and industrial grade for a lifetime of use.
- Sloped bottom for easy removal of solids and sludge.
- Runs on plant air only. No electrical panel necessary on standard systems.
- 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.
- 304 stainless steel platepack is a lifetime purchase and easy to clean.
- No need to ever replace.
- Gentle flow through the system won't split weak emulsions or remove additives. Can be used with virtually any coolant or cleaner.



### 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.
- Parts washers: Reduce cost of washwater detergent, heating & disposal costs. Consistently cleaner parts.
- Coolants: Improve sump life, tooling, and part quality
  - Reduce misting & machine cleanliness
  - Reduce environmental waste disposal, bacteria levels, and associated odors.





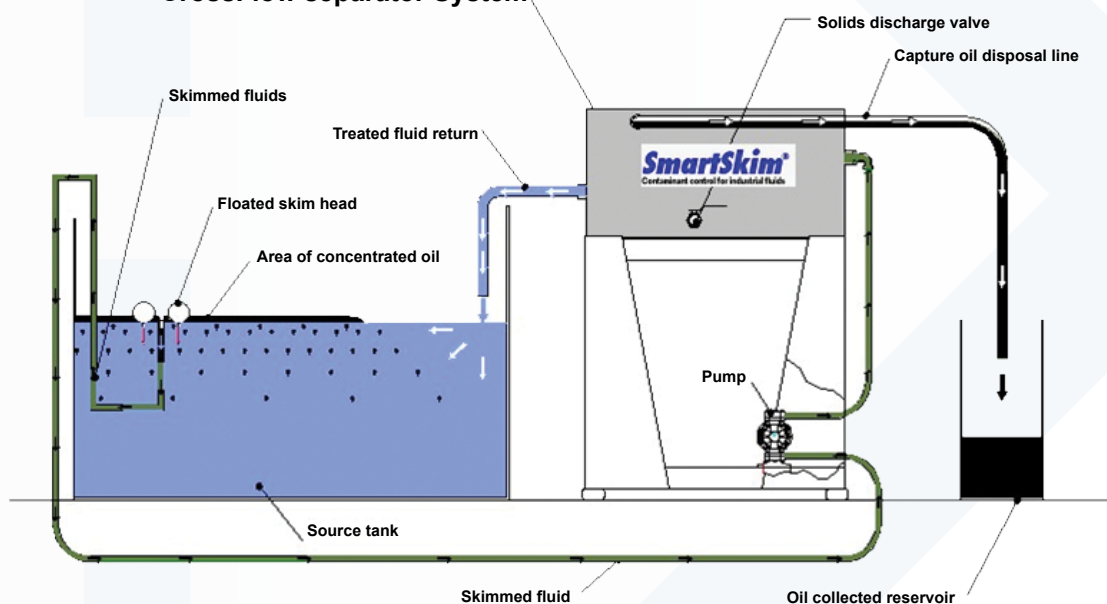
## CrossFlow Separator



### Design Standard

Our multi patent **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® CrossFlow**, there is no plastic coalescer media, filters, or consumables of any kind. Our proprietary open channel platepack 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 CrossFlow System is entirely pneumatic. It runs on plant air, typically using just 3-5 CFM. Just plug and play! **SmartSkim® is the industry standard.**

### CrossFlow separator System



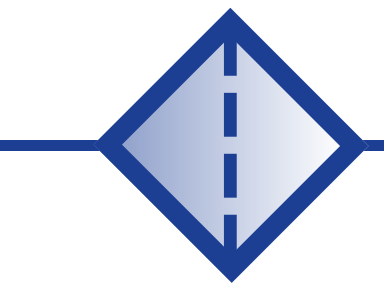
### Sizing

The CrossFlow Separator takes up very little floor space. The unit measures 48" wide x 14" deep x 24" tall. In most instances the separator can be attached to existing parts washers or other structures. We sell an optional stand that provides for ease of installation. Due to the nature of the gravity discharge, our separator needs to be installed with the 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"x18" 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.



CrossFlow Separator installed  
on parts washer



**E**uropean  
**F**ilter  
**S**olutions  
**L**imited

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**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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