

European Filter Solutions Limited

Coolant Recycling



Official Distributors for

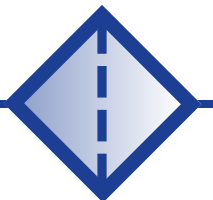


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Coolant Recycling

The Industry Standard

The **CoolantLoop™ Coolant Recycling Centers** are based on decades-long successful fluid treatment practices, using the award-winning, multi patented **SmartSkim® Systems** approach to solving problems. Our systems include the **SmartSkim® SkimHead**, which is considered to be the best suction skimmer in the world! No need for constant adjustments. Our systems can handle wide fluctuations in fluid levels assuring consistent and effective surface skimming of oils and floating contaminants. In addition, our Crossflow Separator, an open-channel coalescer made of 100% stainless steel, promotes the separation of contaminated floating oils and solids from your valuable machining coolants. By getting the fluids out of dirty sumps all three types of coolant contamination problems - tramp oil, solids, and bacteria - can be easily and effectively solved. **SmartSkim® is the industry standard.**

Benefits of SmartSkim® Systems:

- Better control of coolant concentration levels.
- Cut your cost of dirty coolant disposal by 50% to 90%.
- Reduce your cost of new coolant concentrate purchases by 30% to 75%.
- Improve tool life and product quality.
- Safeguard worker health and safety.



*Small Shop
Recycler*



What Makes SmartSkim® Better?

- Designed for easy installation and minimal maintenance.
- Highly reliable systems with little to no downtime.
- Minimal operator involvement and training.
- No need to budget for expensive consumables.
- Runs on plant air only. No electrical panel necessary on standard systems.
- System payback typically in less than 9 to 12 months.
- Systems available for small, medium and large operations.

Materials of Construction

All **CoolantLoop™ Systems** are manufactured to industrial grade standards. Process tanks are welded inside and out and have a painted exterior. On most systems, the tanks are channel reinforced and tank bottoms have support beams. We use non stalling air operated diaphragm pumps with poly body and viton wetted parts. (Electric pumps are also available when required.) Standard filtration includes a Size #2 bag filter housing, however, a number of optional polishing filtration devices are available based on the particular needs of your shop. All **CoolantLoop™ Systems** incorporate the **SmartSkim®** world renowned 304 stainless steel floating suction skimmers and Crossflow Separators. Systems are shipped complete with all fittings, piping, hoses and valves to make a complete assembly.



Coolant Recycling



Standard CoolantLoop™ Systems

Model	Tank Size (gal) Clean/Dirty Side	Length (inches)	Width (inches)	Height (inches)	Typical Processing Rate (gph)
CL375	188/187	80	55	58	120-300
CL600	300/300	83	65	78	180-300
CL900	450/450	108	65	85	240-480
CL1200	600/600	108	77	85	300-600
CL2000	1,000/1,000	156	110	76	600-1,200

Optional Features

Coolant Proportioner: While a coolant proportioner is included as a standard feature on our recyclers, we also offer precision metering proportioners that ensure a greater level of coolant concentration control.

Coolant Return System: Our larger FilterLoop pump allows for the flow of recycled coolant to a plant-wide distribution system.

Hose Reels: Assist in the distribution of recycled coolant back to your sumps. One hose reel can effectively serve multiple machining centers.

Inlet Strainer/Filters: Stainless steel strainers, paper bed media, bag filters, and magnetics provide for an additional layer of filtration to the recycling process.

Magnetic Separator: In-line magnetics remove submicron ferrous contaminants with no costs of consumables.

Sump Cleaner: The Cecor branded sump cleaner allows for the quick removal and easy transport of coolants to/from the sumps and our SmartSkim® Recycler. It is available in air, electric or propane. The tanks are designed as single or split.

Ozonator: Provides biological and odor control without the risk of expensive biocides.

Site Requirements

Air: Systems needs 30 PSI of clean dry plant air. Entire system uses approximately 5-10 SCFM of air.

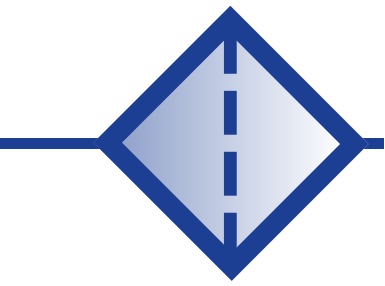
Electric: No electric typically required except when optional ozonator is used. Ozonator supplied with standard 110V plug.

Piping: Only customer piping required is for the tramp oil discharge to the customer supplied drum or tote.

Water: ¾" NPT water line at 40 PSI for coolant makeup proportioner.

Maintenance: System should be cleaned periodically as needed depending on contamination loading, type of coolant used, pre-filtration available and maintenance practices of plant. Total system cleaning of once per year is recommended.





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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