SmartSkim® CoolantLoop™
Coolant Recycling Centers

THE INDUSTRY STANDARD

The CoolantLoop™ Coolant Recycling Systems are based on decades-long successful fluid treatment practices, using the award-winning, multipatented SmartSkim® Systems approach to solving problems.

Our systems include the SmartSkim Floating Suction Skimmer, 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 100% stainless steel open-channel coalescers (V3, CrossFlow, CF-20) promote 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 leader in coolant recycling.

Attributes:
- 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

Benefits:
- Reduce your cost of new coolant concentrate purchases by 30% to 75%
- Cut your cost of dirty coolant disposal by 50% to 90%
- Better control of coolant concentration levels
- Improve machine tool cleanliness and reduce misting
- Eliminate environmental risks and the liability of off-site disposal
- Improve tool life and product quality
- Reduce coolant supply pump maintenance
- Safeguard worker health and safety
- Improve coolant efficiency

SmartSkim
Contaminant control for industrial fluids
Universal Separators, Inc.
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SmartSkim® CoolantLoop™
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Standard CoolantLoop Systems

<table>
<thead>
<tr>
<th>Model</th>
<th>Tank Size (gal) Clean/Dirty Side</th>
<th>Length (inches)</th>
<th>Width (inches)</th>
<th>Height (inches)</th>
<th>Oil Separator</th>
<th>FilterLoop Pump (max. flow rate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL400</td>
<td>200/200</td>
<td>62</td>
<td>70</td>
<td>77</td>
<td>V3</td>
<td>50 gpm</td>
</tr>
<tr>
<td>CL800</td>
<td>400/400</td>
<td>76</td>
<td>76</td>
<td>83</td>
<td>CrossFlow</td>
<td>50 gpm</td>
</tr>
<tr>
<td>CL1200</td>
<td>600/600</td>
<td>105</td>
<td>76</td>
<td>83</td>
<td>CrossFlow</td>
<td>100 gpm</td>
</tr>
<tr>
<td>CL2400</td>
<td>1,200/1,200</td>
<td>105</td>
<td>138</td>
<td>83</td>
<td>CF20</td>
<td>100 gpm</td>
</tr>
</tbody>
</table>

CoolantLoop Systems include:

- Dual compartment processing tank for the storage of dirty coolant and a constant supply of immediately available clean recycled coolant
- Our patented floating pivot-arm skimmer for the most efficient skimming of the floating tramp oils
- Our patented oil separator for the most efficient separation of non-emulsified oils from your valuable water soluble coolant solution
- Various filters for the removal of particulates from the dirty coolant; filtration includes reusable filters for larger particulates and magnetic separators for ferrous fines
- Ozone generation via corona discharge technology and micro-bubbles from a special dispersion stone. The most efficient removal of bacteria and odors
- Air operated diaphragm pumps that provide for ease of maintenance and minimal air consumption
- SmartSkim provides retrofit components to improve the efficiencies of Hyde, Xybex, Sanborn, Deerpath and other outdated coolant recycling systems

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CoolantLoop™

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.

- **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.

- **OZONATOR**: Provides biological and odor control without the risk or expensive biocides.

- **SUMP CLEANER**: SmartSkim 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.

- **HOSE REELS**: Assist in the distribution of recycled coolant back to your sumps. One hose reel can effectively serve multiple machining centers.

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 120V 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.

Materials of Construction

All CoolantLoop™ Systems are manufactured to industrial grade standards. Process tanks are welded inside and out and have a powder-coated exterior finish. All tanks are channel reinforced and tank bottoms have support beams. We use non-stalling air operated diaphragm pumps with poly or aluminum bodies and Buna-N wetted parts (Electric pumps are also available when required).

Standard filtration includes a size #1 or #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 renown 304 stainless steel floating suction skimmers and separators.

Systems are shipped complete with all fittings, piping, hoses and valves to make a complete assembly.

Other SmartSkim Products

- PORTABLE COOLANT RECYCLING SYSTEMS
- OIL WATER SEPARATOR
- FLOATING SUCTION SKIMMERS
- SUMP CLEANERS
- HIGH POWERED RARE-EARTH MAGNETIC SEPARATORS FOR FLUID FILTRATION