

Coolant Recycling

EQUIPMENT

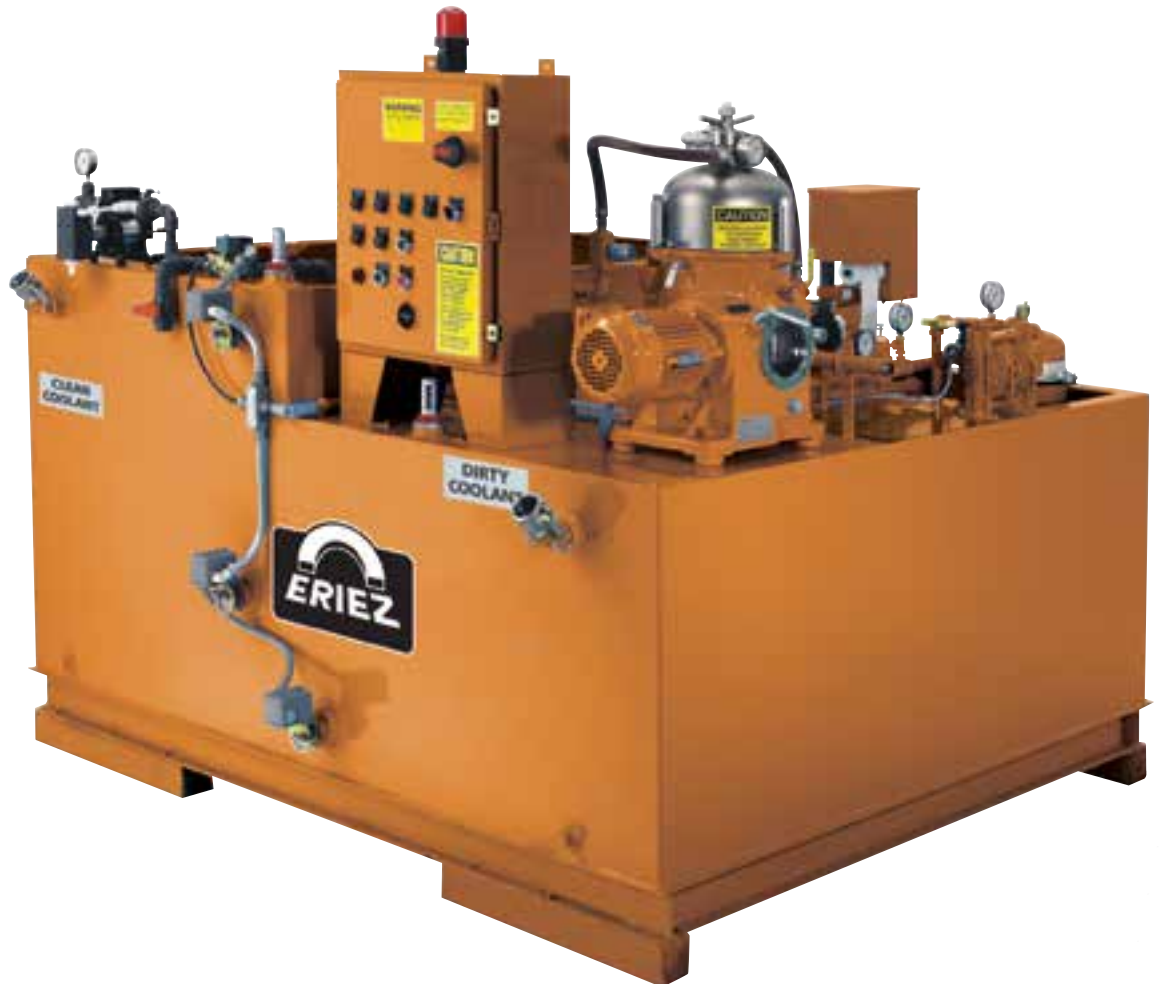
Coolant Recycling Systems

Eriez has put all the aspects of good coolant management to work.

CRS Fluid Recycling Systems, self-contained systems capable of recycling any water-miscible fluid to its maximum potential. These units help minimize or eliminate disposal, reduce usage of fluid concentrate, and improve plant profitability and productivity. Systems ranging from small to large feature low maintenance, unattended operation and fast return on investment.

FEATURES:

- Separate dirty and clean tanks
- Automatic proportioner mixer – coolant make up & control
- Oil removal device – free-floating, non-emulsified tramp oil
- Coalescer – tramp oil separator
- Liquid-from-Liquid centrifuge – clean coolant to <0.5% emulsified tramp oil and 2-5 microns of particulate matter



CRS120ST

This feature-packed system's stacked tank design reduces its footprint and comes standard with a high-speed centrifuge for complete recycling of any metalworking coolant. The CRS 120ST's true high-speed centrifuge requires only one pass through the system to remove tramp oils, particulate matter and a substantial portion of the bacterial population. Cleaning the fluid to this degree eliminates the need for expensive, energy-intensive coolant pasteurization.

CRS120SS

This modular, low-cost coolant recycling system provides the basic requirements of fluid recycling with water-miscible coolant and cleaner products that reject tramp oils. It has a convenient side-by-side tank design and is equipped with a coalescer to remove free and mechanically mixed tramp oils. The CRS 120SS can be fitted with a high-speed centrifuge to address not only the free-floating and mechanically mixed tramp oil, but also remove partially emulsified, bacteria-feeding tramp oils.

CRS300ST

The 300 series delivers an even larger centrifuge for higher processing rates and allows greater flexibility for adding optional equipment. An optional dual product design, the CRS 200/200 ST, features two dirty and two clean tanks for facilities using two different metalworking fluids.

CRS300SS

A complete, full capability recycling system for medium-to-large sized metalworking plants equipped with machine tools using individual coolant sumps. The CRS 300SS easily meets the recycling requirements of facilities with up to 10,000 gallons of total sump capacity.

For operations with greater flow rates or higher processing capacities, custom configurations are also available from Eriez.

Custom configurations can include systems that recycle a combination of both individual machine tools and central coolant systems. To facilitate the moving of fluids to and from the CRS recycling system, complete plant distribution and return header systems with pumping stations are available.



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SumpDoc Portable Fluid Recycling

Unlike any other product in the market, the SumpDoc™ is an all-in-one portable fluid recycling system that will filter and rejuvenate metalworking fluids in a machine tool sump without interrupting production.

The SumpDoc Portable Fluid Recycling System allows shop personnel to position the unit alongside the machine tool sump and treat the existing coolant while continuing to operate the machine tool.



FEATURES:

- Heavy-duty vacuum removes large chips and heavy sludge
- Cartridge filter removes fine solid particulate
- High speed centrifuge removes emulsified oils from coolants
- Ozone generator provides biological control
- Tank and pump onboard for tramp oil disposal
- Utility hook ups for easy connection to power and air supplies
- Touch screen controls for fully automated process control
- Hoses, couplings and floats are stored onboard in tubes or on reels





High speed centrifuge removes free and emulsified oils from coolants

Onboard disposal, mixing and clean concentrate tanks with pumps for fast discharge.



Fully automated touch screen controls



Convenient access to hoses and utilities



Retractable reel-mounted hoses for coolant processing