



## INLINE MACHINE TOOL FLUID FILTRATION AND RECYCLING



**HYDROFLOW**



### **Eriez' SumpDoc features:**

**Touch Screen Controls** Includes fully automated process controls

**Hoses, Couplings and Floats** All hoses are stored onboard in tubes or on reels

**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 tank for tramp oils

**Utility Hook Ups** Easy connection to plant power and air supplies

### **Optional:**

**High Speed Self Cleaning Centrifuge** in lieu of the standard manual clean centrifuge. Includes no flow sensor, operating and flush water solenoids, on board disposal tank with level sensors and discharge pump. Requires plant water to operate.

**New Coolant Make Up System** allows the operator to add water, lean coolant, or rich coolant to the sump. Includes on board coolant concentrate holding tank, gear concentrate pump, necessary controls and a digital hand held refractometer. Requires plant water to operate.





The mobile **SumpDoc**® provides “inline” coolant filtration and replenishment without shutting down the machine tool. It’s faster, easier and cheaper than how you maintain your cutting fluids today. No more draining tanks, lost production time, wasted labor, moving hundreds of gallons of new and old fluids around the shop, disposing of valuable recyclable coolants, and high coolant bills. **SumpDoc** can process water-soluble coolants, synthetics, semi-synthetics, soluble oils and water based fluids.

**SumpDoc** is fully automated, filtering dirty sump coolant in a two-phase process. The first phase is vacuuming out chips and sludge at a rate of 85 GPM (50 microns). The second phase filters fine solid particulate to 3-5 microns and removes tramp oils to less than 0.5% at flow rates of 90 to 120 gallons per hour. Depending on the regularity of cleaning, a 200-gallon sump could be processed in about two hours.

The unit has exceptional maneuverability, and onboard hookups and extensions to receive compressed air and 120-volt, single phase electric.



*Fully automated touch screen controls*



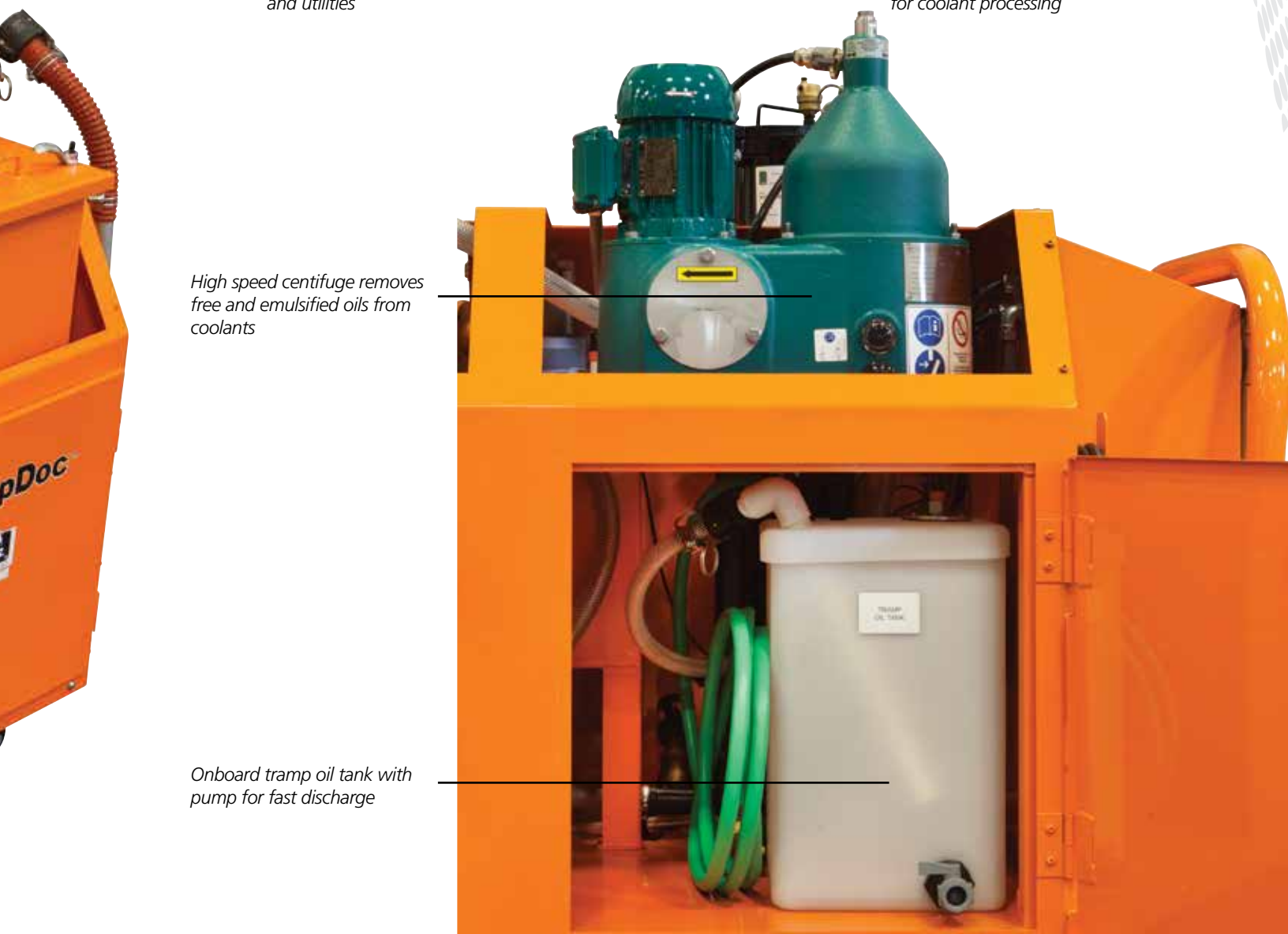
*Exceptional maneuverability*





Convenient access to hoses and utilities

Retractable reel-mounted hoses for coolant processing



High speed centrifuge removes free and emulsified oils from coolants

Onboard tramp oil tank with pump for fast discharge





## A Two-Phase Process...

# 1

### Cleaning Mode

In the initial cleaning, a power vacuum draws metallic chips and sludge from the bottom of the sump through a perforated metal basket and strainer. Strained coolant is returned through the discharge hose directly to the sump.

# 2

### Filtration Mode

The intake-float hose draws dirty coolant from the sump into a paper filter removing solids to 10-25 microns (filter dependant). A high-speed centrifuge removes solids to 3-5 microns and emulsified oils to 0.5%. The clean coolant is discharged and cycled to the sump while the tramp oils flow to an onboard disposal tank. An ozone generator injects ozone into the clean coolant to help control bacteria, mold and fungus. The coolant continues to cycle for a predetermined time.



*Cartridge filter and housing remove fine solid particulate*





## Specifications

### Performance

Sump cleaner	to 50 microns @ 85 gpm
Paper filter	to 10 – 25 microns
Centrifuge filter	to 3-5 microns @ up to 120 gph to 0.5% oil separation

### Dimensions and Ratings

Length	67-3/8"
Width	40-1/4"
Height	54-3/16"
Chip basket	2 sq. ft.
Disposal tanks	10 gallons
Power Supply	120V, Single Phase, 60 Hz
Full Load Power Input	20 AMPS
Air Requirements	90 PSI, Max 30 SCFM
Weight	1,500 lbs

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