RYBSA DEL NORTE S.A. DE C.V.

Going beyond to prolong the life of your coolants

The Alfie 500 for coolant cleaning

Less downtime

Better product quality

No more sticky tools

No odour

Reduced allergic reactions

Reduced tool wear

Clean coolants save more than you think

For the metalworking industry, coolants are a major expense. Some are obvious: Replacing them – a messy and time-consuming task. Disposing of them – a continually rising expense in the face of today's environmental regulations.

But dirty coolants also incur other less obvious but no less expensive costs. For example, tramp oil and solid particles in coolants can cause increased tool wear, quality problems during later processing and health problems for your personnel.

In short, it's well worth the effort to take steps to keep your coolants clean.

And with Alfa Laval's centrifugal separators, it's not much of an effort to begin with.

- Low fluid replacement/disposal costs
- Longer tool lifetime
- Cleaner components, improved end-product quality
- Less downtime for service since the separator is installed in bypass flow
- Fewer man-hours required for maintenance of service fluids
- Healthier work environment
- Reduced impact on the environment

We see a potential to cut cost and boost productivity

Every machining stage in your plant needs coolants. Always having clean coolants offer clear benefits.

Alfie 500 – worth evaluating
Alfie 500 is specifically designed to remove contaminants from coolants in smaller systems, using the time-tested technique of high-speed centrifugal separation. With its compact design, Alfie 500 is easy to move across a workshop floor. And you can use it to service several tanks, or just one, for volumes of up to 15 m^3 (7,500 gallons). The equipment is easy to operate thanks to a PLC-based control panel. And just about anyone can quickly learn how to operate and service it.

Since the separator is installed in a bypass flow, Alfie 500 can treat the coolant during a production run or at standstill. Alfie 500 separates tramp oil as well as metal fines and solid particles down to 1 µm from the coolant.

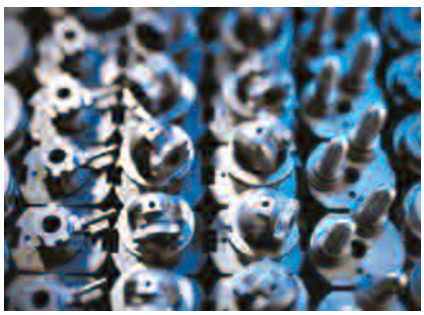
Recycling means major savings
Install Alfie 500 and your fluids will last much longer. Continuous cleaning extends the life of your coolants and, with top-ups, it can last as long as 10 years!

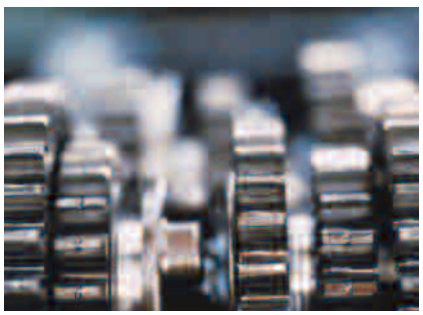
Imagine the savings on fluid disposal and replacement. No filters to replace or dispose of. Clean coolant is returned to your tanks, “pure” free oil or tramp oil is collected in a tank and a compact dry cake of particles collects on the inside of the separator bowl.

Precise tools – better end quality
In light of today’s zero-defect production philosophy, Alfie 500 is a clear asset in any metalworking plant.

Clean coolant minimises tool wear caused by contaminants, giving more precise machining and fewer rejects.

Keep your tools running
The Alfie 500 will raise your productivity. Clean coolants mean longer tool lifetime and longer production runs without tool changes. It also means fewer breakdowns due to solid particles clogging pumps and other equipment. Fewer stops for tank cleaning is yet another benefit.





The Alfie 500 – look how easy

The Alfie 500 is the perfect solution for cleaning coolants in metalworking operations.

Install in any system
Install Alfie 500 in a bypass flow. No redesign is necessary on your machine.

Extremely simple to operate
The Alfie 500 is ingenious, very effective, and very easy to work with. All functions are controlled by a PLC-based control system. And with a well thought-out design.

Plug-and-play operation
Hook up Alfie 500 and start it up. The system works automatically and requires no supervision. Your coolants will last longer than ever before.

Support worldwide and around the corner
Alfa Laval's global resources include 50 sales companies and an extensive Parts & Service network, supporting customers in more than 100 countries. A network of local distributors and service providers can also provide support.

1. Solid particles accumulate inside the rotating bowl. When the bowl needs to be cleaned, it can be opened with a few simple operations.
2. When the tramp oil has reached a certain level in the collecting tank, a microswitch is activated, stopping the cleaning process and turning on an indicator light.
3. The surface of the rotating bowl is coated with a material that is 12 times harder than steel.
4. Mobile and compact. Large wheels make it easy to move the Alfie 500 even when the floor is not entirely smooth.
5. Suction hose with surface suction device.
6. Hose for return of clean fluid.

Designed to improve your processes time and time again

Easy to operate and service

Step 1
Fold down the safety yoke and remove the three bolts to open the separator.

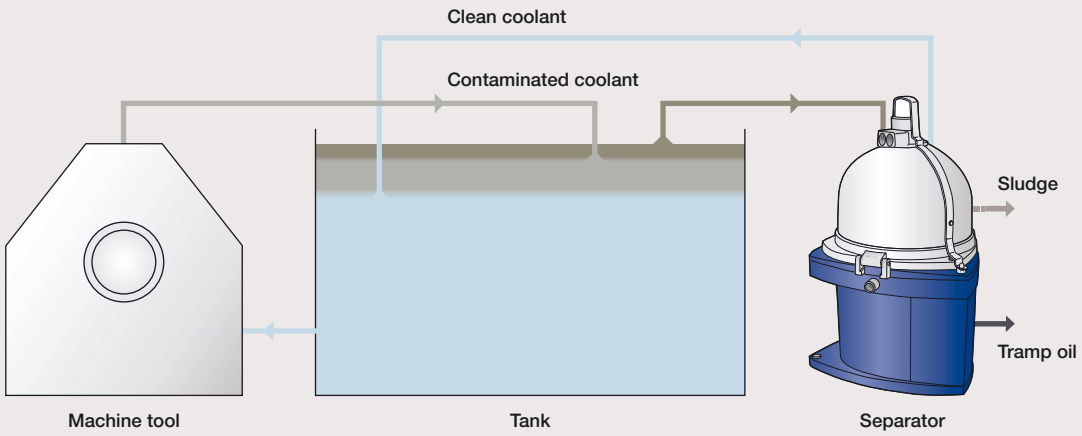
Step 2
Attach the tool and simply lift the separator bowl.

Step 3
The dry sludge is easily removed from the inside of the bowl. After depositing the sludge, the system is ready for operation.

Suction devices
A float-type suction device (A) is standard. The optional bellows type (B) is designed for narrow spaces and shallow tanks (up to 100 mm).

Clearly controllable
The system is fully automatic and starts at the push of a button.

Plug-and-play
Alfie extracts a side stream of contaminated coolant from the tank and returns the clean coolant to the tank without interrupting the machining process. No alterations to existing equipment are necessary.



Technical data

Capacity	
Max. flow, 50/60 Hz	500 l/h (2.2 gpm)
Sludge space	0.6 l (0.16 gal)

Liquid requirements	
Max. temperature	70°C (160°F)
pH value	6–9

Electrical data	
Voltage	230 V or 100–230 V single-phase (±5%)
Frequency	50/60 Hz
Amperage	10 A

Weight	
Total weight, incl. stand	60 kg (135 lbs)

Dimensions	
Length	620 mm (24")
Width	510 mm (20")
Height	1140 mm (45")

The Alfie 500 is only a fraction of what we can help you with
Alfie 500 is a perfect example of how an innovative product can be developed by combining proven technology with advanced materials and design solutions. Alfie 500 is our smallest separator for the cleaning of coolants; the largest model has a capacity of 8,000 l/h (35 gpm), and can handle tanks with capacities up to 300 m^3.

Our total product range includes some 20 separators that also treat wash liquids, oils, other emulsions and paint waste. Alfa Laval is also the world's leading supplier of heat exchangers, helping customers around the world heat, cool and transport any type of fluid.

AlfaPure Z3 – a larger separation system from Alfa Laval.

Alfa Laval in brief

Alfa Laval is a leading global provider of specialized products and engineered solutions.

Our equipment, systems and services are dedicated to helping customers to optimize the performance of their processes. Time and time again.

We help our customers to heat, cool, separate and transport products such as oil, water, chemicals, beverages, foodstuff, starch and pharmaceuticals.

Our worldwide organization works closely with customers in almost 100 countries to help them stay ahead.

How to contact Alfa Laval

Contact details for all countries are continually updated on our web site. Please visit www.alfalaval.com to access the information.

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