



The benefits of Alfie: they go beyond prolonging the life of your coolants

Cleaning of coolants with Alfie 400



Clean coolants save more than you think

For the metalworking industry, coolants are a major expense.



Better product quality



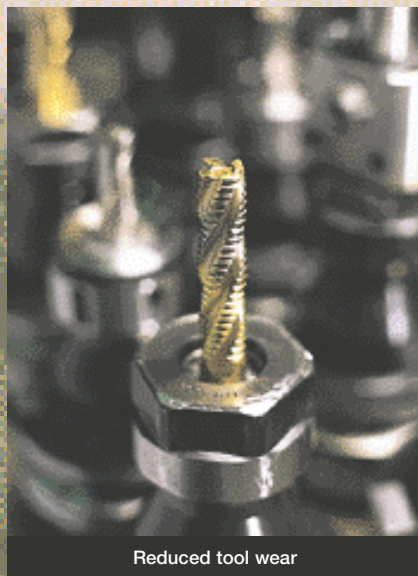
Less downtime



No more sticky tools



Reduced allergic reactions



Reduced tool wear



Odour elimination



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 coolant 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 that much of an effort to begin with.



Alfie lets you clean even smaller system coolants

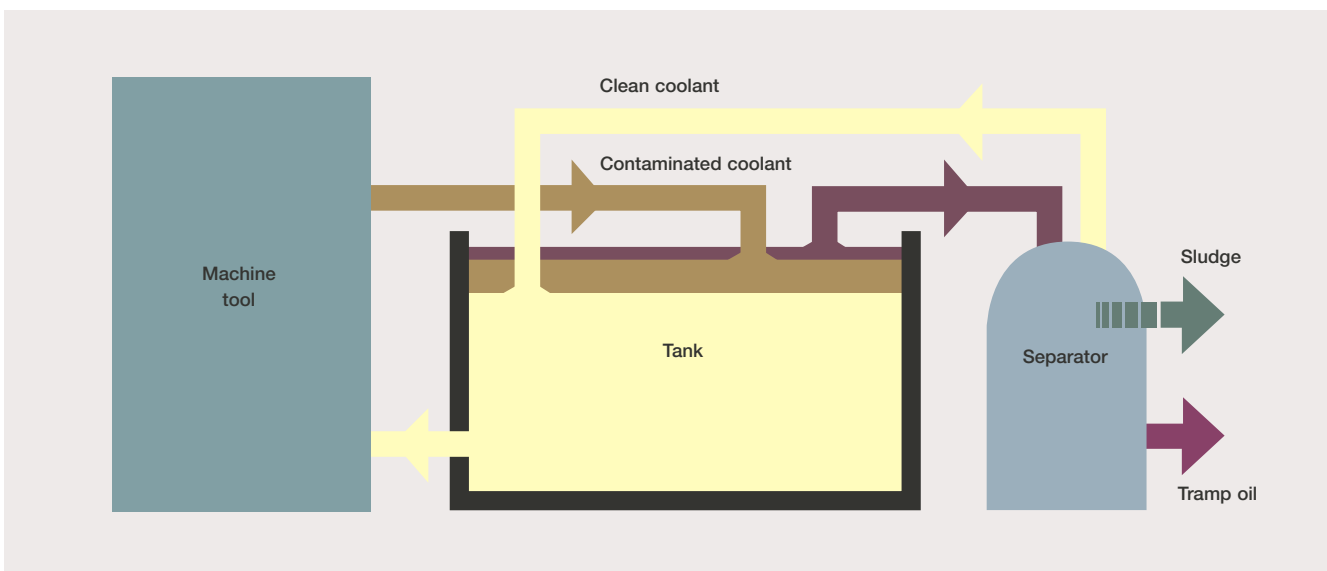
Alfie is specifically designed to remove contaminants from coolants in smaller systems, using the time-tested technique of centrifugal separation.

With its compact design, Alfie is easy to move across a workshop floor. And you can use it to service several tanks, or just one, up to a volume of 5 cubic metres (1.500 gallons).

Since the separator is installed in a bypass flow, Alfie can treat the coolant when the machine tool is in use or idle.

Alfie separates tramp oil as well as metal fines and solid particles (down to 1 μm) from the coolant. Result? Coolant lifetime is extended many times and only make-up additions to replace carry out and evaporation are required. Apart from the obvious economic benefits, this effective cleaning process provides greater availability, reduced wear and tear on tools, and an overall improvement in product quality.

Return on investment is faster than one year.



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.



The contaminated coolant is skimmed from the surface.



After cleaning, the coolant is returned to the tank.

Hidden, innovative features

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Alfie is extremely easy to use. Anyone can learn all that is needed to operate and maintain Alfie in less than an hour.

Technical data

Capacity

Max. flow, 50/60 Hz	400/480 l/h (1.8/2.1 gpm)
Sludge space	0.7 l (0.18 gal)

Liquid requirements

Max. temperature	70°C (160°F)
Max. pH	9

Electrical data

Voltage	230 V or 110 V single-phase (+10 to -15%)
Frequency	50/60 Hz
Amperage	10 A

Motor capacity

Separator motor	0.45 kW
Pump motor	0.18 kW

Weight

Total weight, incl. stand	55 kg (120 lbs)
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Dimensions

Length	600 mm (24")
Width	480 mm (19")
Height	1100 mm (43")

Alfie is delivered complete with stand, collection tank for tramp oil, surface suction device, hoses and instruction book.

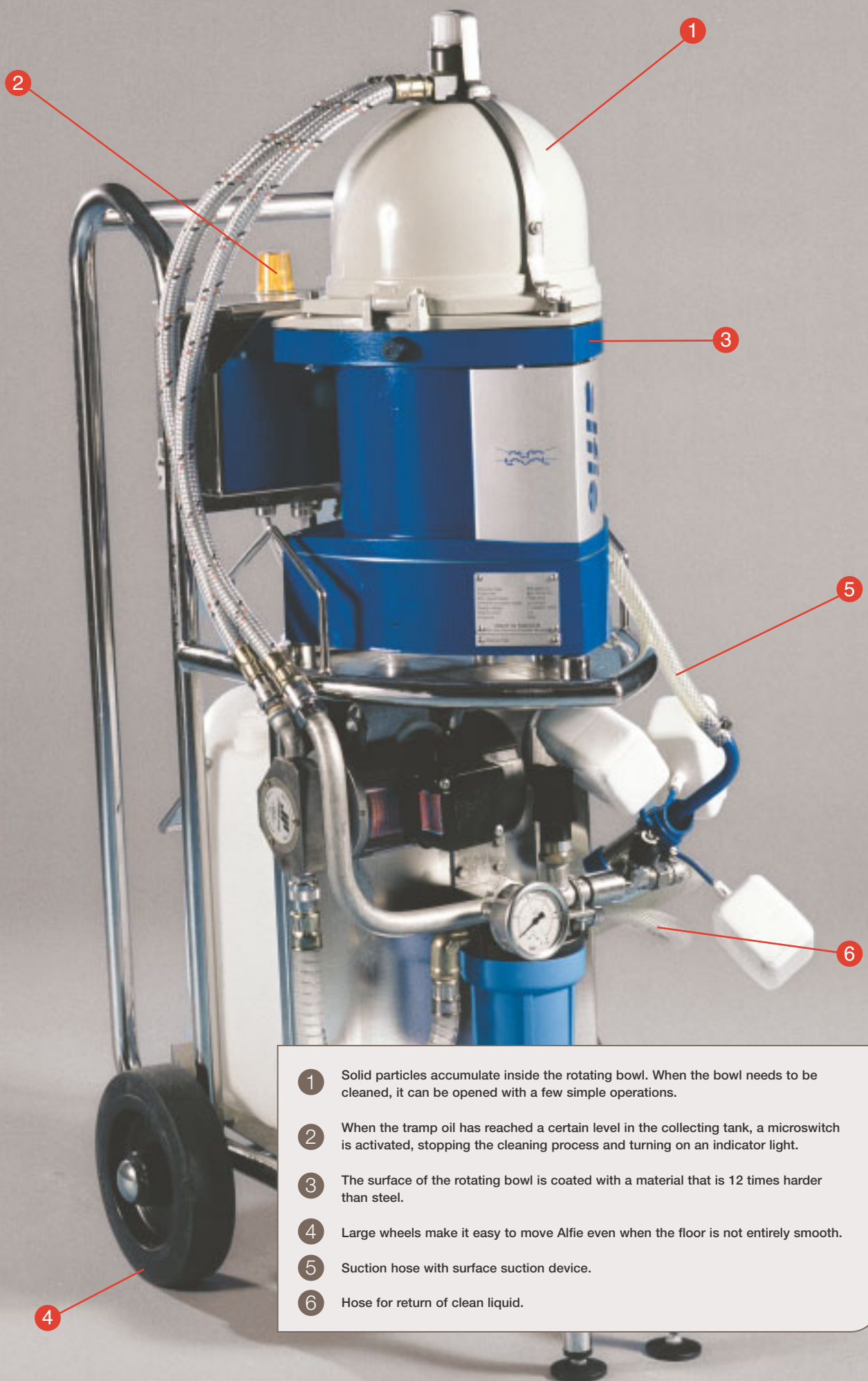
From little Alfie to large stationary units

Alfie is a perfect example of how an innovative product can be developed by combining proven technology with advanced materials and design solutions.

Alfie is our smallest separator for cleaning of coolants; the largest model has a capacity of 8,000 l/h (35 gpm). Our total product range includes some 20 separators that also treat wash liquids, oils, other emulsions, and paint waste.

If you are interested in Alfie, or would like to discuss cleaning of industrial fluids, please do not hesitate to call or write us today.





- 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 Large wheels make it easy to move Alfie even when the floor is not entirely smooth.
- 5 Suction hose with surface suction device.
- 6 Hose for return of clean liquid.

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 website. Please visit www.alfalaval.com to access the information.

