

*μ*icronfilter **Evotech**

Safe, simple and economical
management

A reliable and eco-friendly
filter bed

High performance in small
spaces



μ

filtering solutions

μ

Here at Micronfilter we are profoundly convinced that creating something new is a huge responsibility. This is the reason why each of our products is designed, manufactured, tested and sold in the respect of the most advanced local and international rules and laws, with particular attention to the health of our workers and to the protection of the environment.

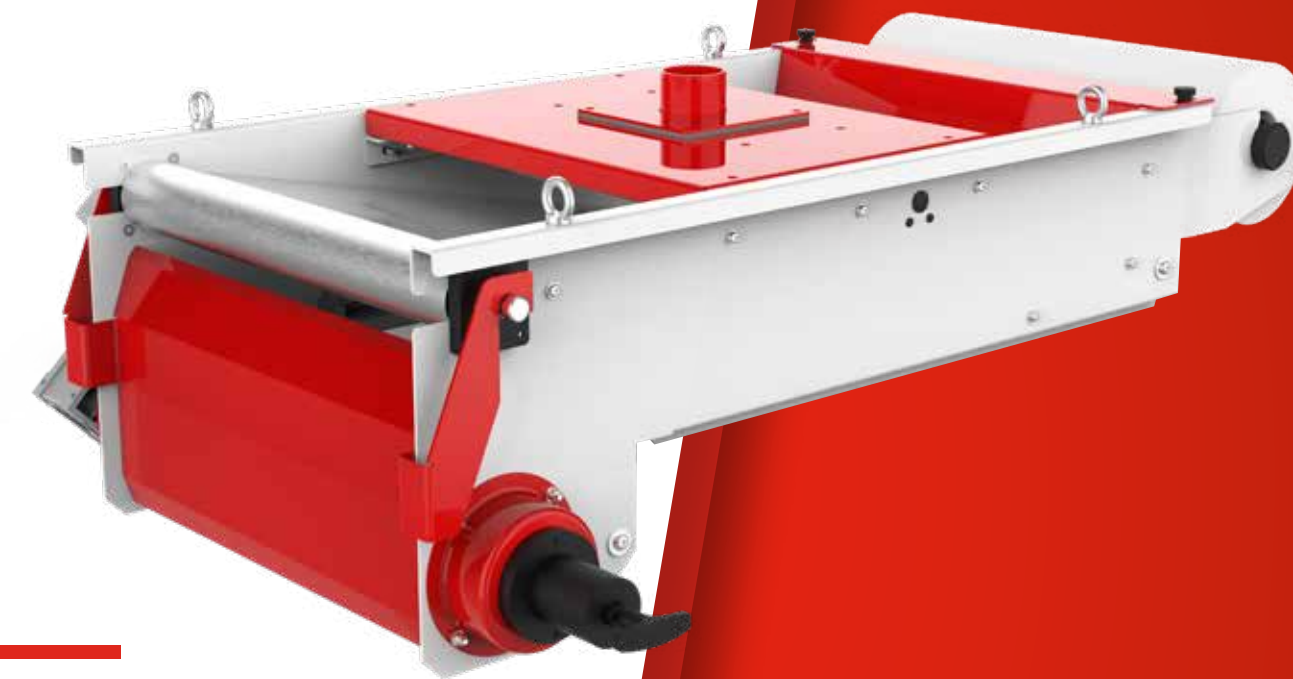


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Every Micronfilter product is proudly Made in Italy with all our passion, creativity and precision.

Evotech

low-cost solution
for coolant filtration



focus

features

Filtration from 30 to 60 microns

Flow rate from 40 to 300 l/min (10-80 gpm)

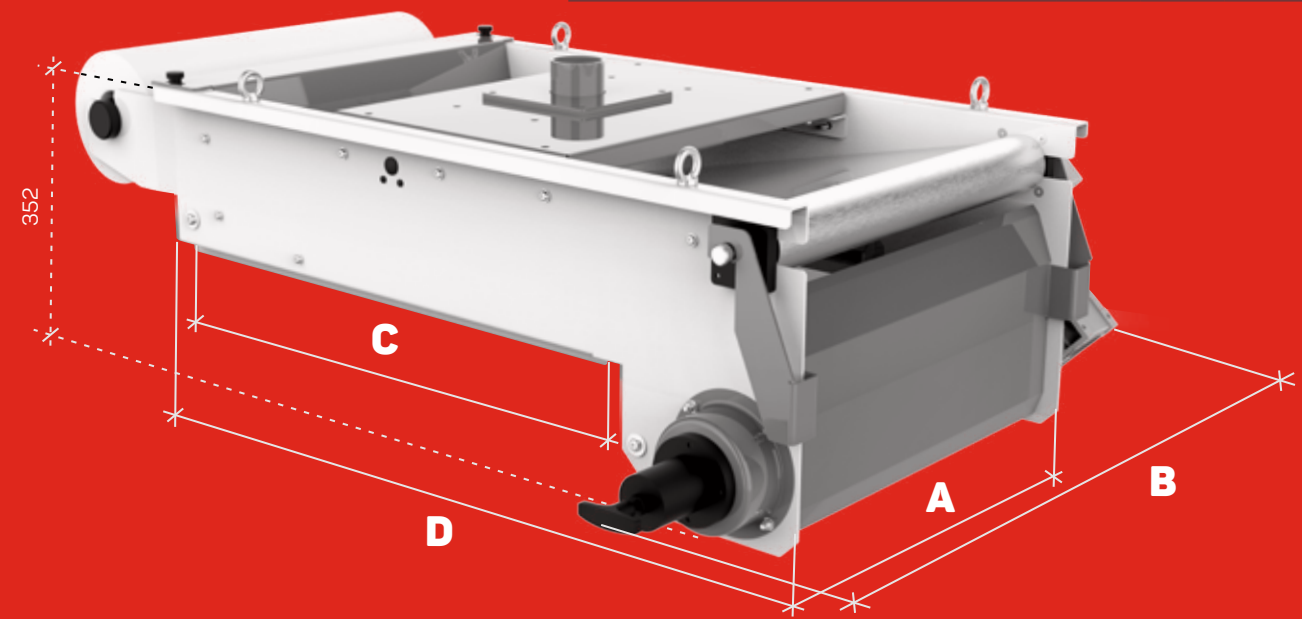
Reduced consumption of filter media

Care for waste disposal

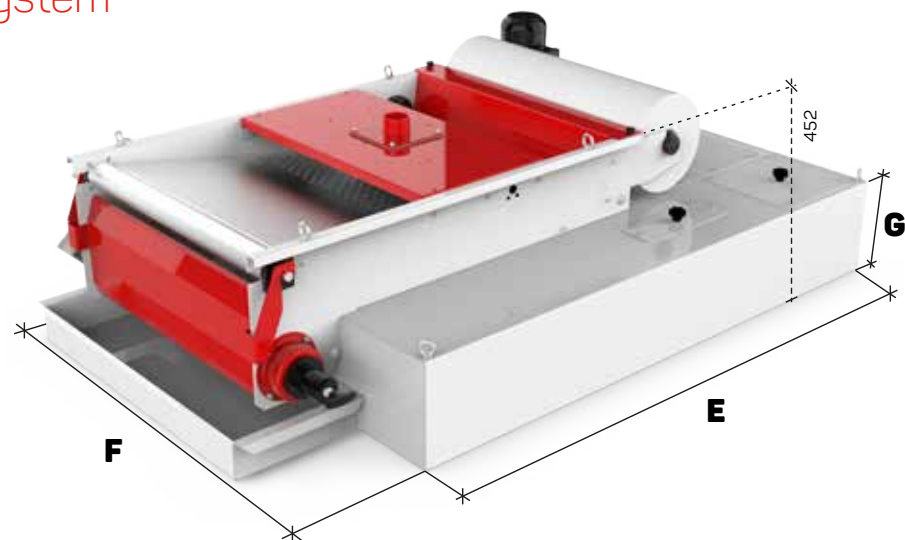
μicronfilter
FILTERING SOLUTIONS

Filter main dimensions

Model	Emulsion Flow Rate (l/min.)	Neat Oil Flow Rate (l/min.)	A (mm.)	B (mm.)	C (mm.)	D (mm.)	Gear-motor power (kW)	Weight (Kg.)
Evo300	40	20	300	651	440	895	0.12	35
Evo500	80	40	500	848	690	1145	0.12	45
Evo700	120	60	700	1046	840	1295	0.12	52
Evo1000	180	90	1000	1350	990	1445	0.12	70
Evo1200	240	120	1200	1550	1040	1495	0.12	75
Evo1500	300	150	1500	1850	1170	1625	0.12	90



Complete System



Model	E (mm.)	F (mm.)	G (mm.)	Tank Gross Capacity (liters)	Pump Power (kW)	Pump Flow Rate (litres/min)	Pump Pressure (Bar)	Gear-Motor Power (kW @ 50/60Hz)	Weight (Kg)
Evo300	700	760	250	130	0,09	40	0,3	0,12	75
Evo500	995	955	250	230	0,25	80	0,2	0,12	105
Evo700	1490	1250	250	450	0,37	120	0,5	0,12	160
Evo1000	1490	1620	250	590	0,55	180	0,6	0,12	200
Evo1200	1490	2050	250	760	0,75	240	0,1	0,12	250
Evo1500	1490	2180	300	800	0,75	300	0,2	0,12	300

Options



KALAMIT magnetic purifier for the separation of ferrous/magnetic particles from water based emulsions and neat oils.

CHILLER maintains proper temperature control of metalworking fluids.

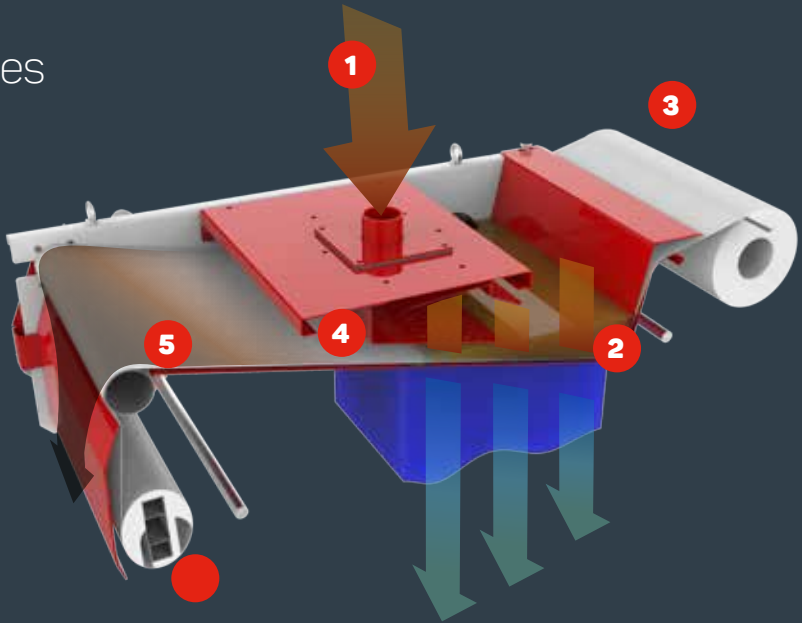
ELECTRO-PUMP for supplying clean filtered lubricant into the machine at the required flowrate and pressure.

MULTILEVEL SENSOR for monitoring the liquid level in the containment tank (min. alarm, min. level, max. level, max. alarm)

CONTAINMENT TANK standard or custom-designed for the space requirements of the end user.

OIL SKIMMER for separation of tramp oil from water based emulsion coolants. It is equipped with a separate collection tray for oil disposal.

Working principles



The contaminated liquid (1) flows and spreads evenly into the filter bed (2). As the fluid flows into the filter it is forced to pass through the filter media by gravity. This process separates the contaminating solids from the liquid and deposits them on the filter media (3), further enhancing the filtration efficiency. When the progressive accumulation of solids clogs the filter media

and the liquid can no longer flow through the filter media, the liquid level rises together with the float (4), which activates a proximity switch. The proximity switch activates the gearmotor and the filter media is advanced forwarding. As the fabric moves forward, a scraper (5) separates the dirty fabric from the sludge and is rewinded on the reel (6), thus facilitating the separation of solid waste and reducing disposal costs.



Technological innovation first. As a manufacturer of quality filtration systems for metalworking lubricants, the Micronfilter group is a proud supplier of filtration systems for all machine tools.

Personalized purifiers. The key to Micronfilter's success is our philosophy that not all applications can use an off the shelf standard product, we pride ourselves in customizing filtration solutions for the customers application.

Complete assistance for each purifier. Micronfilter is focused on providing top notch Customer Service with every filter system we sell.



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About the Micronfilter EVOTECH

"Evotech" filter beds allow for a simple and economical management of coolant filtration inside all metal working companies. They are suitable for all metalworking machine tools, for the filtration of emulsified and neat oils (with a maximum viscosity of 20° cSt at 40°C) and for flow rates varying from 40 to 300 l/min (10 – 80 gpm) depending on the solids present in suspension, the fluid to be processed and the required filtering fabric.