

AUTOMATIC FILTER CLEANING



DESCRIPTION

The **CENTERFILTER** control unit is designed and built for the filtration treatment of contaminated oils and coolants, derived from the operation of machine tools for chip removal. Through a centrifugal pump, the contaminated coolant from the machine tool is sent into the **CENTERFILTER**, where a self-cleaning filter cartridge is present, constructed according to specific requirements: the filter elements are designed based on the type of coolant and contaminants to be treated. The outgoing coolant flow is continuous. The **CENTERFILTER** control unit ensures a constant flow of filtered coolant to the machine tool, preserving the longevity of mechanical components, cutting tools, and both high- and low-pressure pumps. The cleaning of the filter and the evacuation of sludge occur automatically. The compact size of the **CENTERFILTER** makes it suitable for machine-side applications.

TECHNICAL SPECIFICATIONS

- Self-cleaning system
- Long lifespan
- Constant filtration quality
- Does not require the use of consumable materials
- Automatic sludge evacuation system
- Compact size

OPTIONAL

- Filtered oil delivery pump (high or low pressure)
- Cooling system

CASE HISTORY

Before applying the Centerfilter filtration system, our client "Cattini & Figlio S.p.A." had to clean the cartridge metal filters every 5/6 hours, interrupting production as they could not operate unattended. By using the Centerfilter filtration system, applied before the metal filters, they can now operate unattended, and the replacement/cleaning of the metal filters occurs after over 3 months of operation (about 1500 hours).

SUPPLY

- Nearly 400 l containment tank in electro-welded metal painted RAL 7016
- Wheels for moving and applying to other pickup points
- Pump with adequate power for transferring the contaminated coolant from the machine tool tank to the filter unit
- Visual and electronic level switch (minimum and maximum)
- Centerfilter AF50/AF100 filtering group with internal metal cartridge in stainless steel, self-cleaning, with automatic sludge removal
- Differential pressure switch for drain activation and automatic filter cleaning
- Sludge evacuation via servo-pneumatic solenoid valve
- Electric command and control panel for the management of: self-cleaning filtration system, level sensors, pump for transferring the contaminated refrigerant to the filtering unit, solenoid valves for the evacuation of the sludge. The power supply and controls of any high pressure pumps are quoted on request
- Use and maintenance manual.



OIL OR COOLANT



CONTINUOUS FILTRATION



AUTOMATIC FILTER CLEANING

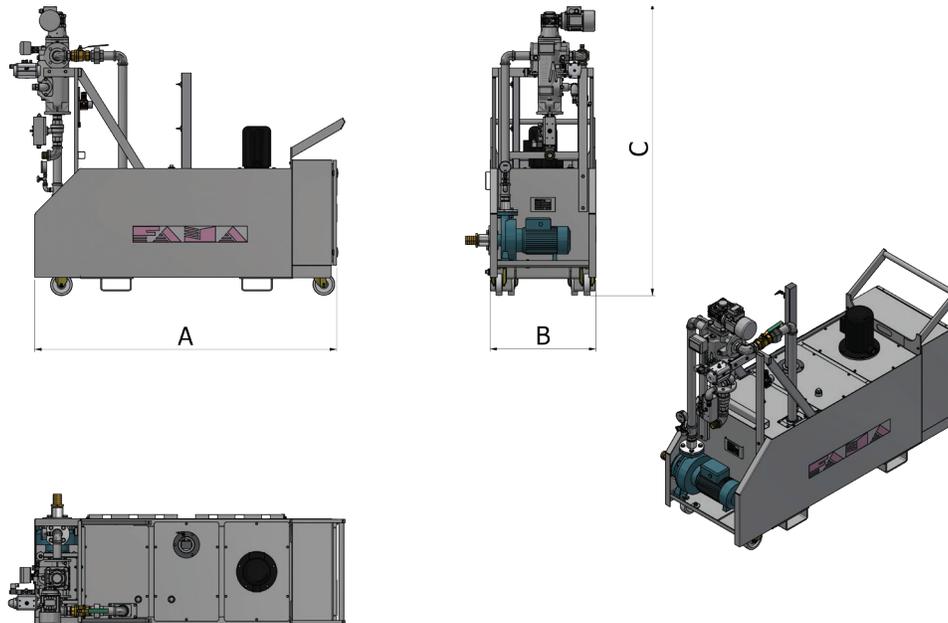
FAMA RESERVES THE RIGHT TO MAKE CHANGES TO THE PRODUCT WITHOUT NOTICE

Uffici e Produzione/Offices and production site: Via Moraro, 19 - 36030 Montecchio Precalcino (VI) Italy - Tel.+39 0445 363950 fax +39 0445 386068

Sede Legale/ Registered office: Via S. Antonio,11- 36030 Fara Vicentino (Vi) Italy C.F./P.I.: IT 02290490248 Cap. Soc. € 100.000,00 R.E.A. VI 220095

www.famaproject.com e-mail info@famaproject.com

AUTOMATIC FILTER CLEANING



DIMENSIONI

	AF 50	AF100
A - LENGTH [mm]	1600	1700
B - WIDTH [mm]	400	600
C - HEIGHT [mm]	1200	1500

TECHNICAL DATA

TOTAL POWER [kW]	3-11
ELECTRICAL SUPPLY [V]	400
FLOW RATE [l/min]	70-250
FILTRATION DEGREE [μ m]	40/10
TOTAL WEIGHT [kg]	350

TESTS CARRIED OUT WITH OIL 22 CsT, 4% EMULSION

MODEL	AF 50	AF100
FILTRATION DEGREE [μ m]	40/10*	40/10*
OIL FLOW RATE 22 CsT [l/min]	70	150
EMULSION FLOW RATE 4% [l/min]	100	250
STORAGE CAPACITY [l]	300	500

*THE FILTRATION DEGREE DEPENDS ON THE FILTER ELEMENT USED.
 THE OBTAINED FLOW RATE IS INDICATIVE AND DEPENDS ON THE FLUID VISCOSITY AND THE ENVIRONMENTAL CONDITIONS OF APPLICATION (OUTSIDE TEMPERATURE, OIL TEMPERATURE). IT IS POSSIBLE TO CONDUCT TESTS AT FAMA SRL'S FACILITY WITH YOUR SPECIFIC SAMPLE.

FAMA RESERVES THE RIGHT TO MAKE CHANGES TO THE PRODUCT WITHOUT NOTICE

Uffici e Produzione/Offices and production site: Via Moraro, 19 - 36030 Montecchio Precalcino (VI) Italy - Tel.+39 0445 363950 fax +39 0445 386068
 Sede Legale/ Registered office: Via S. Antonio,11- 36030 Fara Vicentino (Vi) Italy C.F./P.I.: IT 02290490248 Cap. Soc. € 100.000,00 R.E.A. VI 220095
www.famaproject.com e-mail info@famaproject.com