



FILTRATION STATION WITH TANK



LUBRO-REFRIGERANT FILTRATION SYSTEMS



DESCRIPTION

The **filtration station** is a tank with variable capacity depending on the applications, dedicated to storing the purified and filtered lubricating coolant.

The filtration station is equipped with a self-cleaning drum filter, with mesh technology, featuring a scraper system for the automatic evacuation of sludge, which will be collected in a specific tray.

It is made of watertight metal structure, tested with penetrant liquids, and fitted with lifting points for cranes. The tank is complete with visual level indicators, side opening, bottom drains, cable pass, and overflow.

TECHNICAL FEATURES

- Modular and customized to meet the customer's requirements
- The filtration or microfiltration system installed is agreed upon according to production needs;
- The make-up system can be automatic or demand-based
- It can be integrated with refrigeration systems or heat exchangers

OPTIONAL

- Dragging system for sludge evacuation
- Magnetic filter
- Refrigeration system
- Heat exchanger
- De-oiler

SUPPLY

- Tight-sealed tank made of robust carbon steel metalwork, divided into two sections, with covers of various sizes for different purposes and functions
- Visual level indicator
- 3 electronic level sensors
- Drain connections for tank emptying and overflow
- 1 self-cleaning rotofilter model FF400, complete with washing pump – filtration grade 50 µm, 200 l/min
- Flanges for pump installation
- 1 Grundfos pump for washing the rotofilter, complete with pressure gauge
- 2 Grundfos MTR pumps for returning the filtered oil to the hydraulic system, maximum flow rate 100 liters/min, 3.5 bar, complete with pressure relief valve and pressure gauge
- 2 electronic flow switches on the filtered oil return line
- Pressure sensor



OIL OR LUBRICATING COOLANT



HIGH EFFICIENCY



AUTOMATIC FILTER CLEANING

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

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LUBRO-REFRIGERANT FILTRATION SYSTEMS

SUPERFILTRATION

The FF microfiltration system is suitable for the treatment of lubricants (oil or emulsion) applicable in situations requiring high-quality filtration. Applied after the rotfilter process, it enhances the performance and quality of oil filtration.

The cartridges are made of reinforced organic microfiber. The particular pleated construction and cellulose baking with special resin application allow for high contaminant accumulation capacity and high filtration efficiency.

The duration of the cartridges depends on the characteristics of the fluid to be treated. Applying the filtering cartridges after pre-filtration treatments exponentially increases the service life of the filter cartridges.

Each FF model system is equipped with redundancy and a bypass system to ensure the plant's functionality even during maintenance or cartridge replacement.



FILTER



INTERNAL FILTER

DRUM FILTER

The FAMA rotfilter is a process device for the treatment and filtration of lubricants.

The rotfilter is equipped with a self-cleaning filter with mesh technology, consisting of a filtering mesh tensioned between the structural elements of the mesh itself.

Two level sensors detect the variation in the free level of the lubricating coolant, caused by the accumulation of solids on the filter mesh, and when this becomes excessive, they start and stop the self-cleaning process: a pump supplies clean lubricating coolant to a series of micro nozzles, which, with a calibrated pressure jet that does not damage the filter mesh, clean the filter.

The sludge and suspended solids removed by the cleaning process are evacuated via a dragging system. The FF series rotfilter is equipped with two motors to move the rotfilter and the dragging system: in this way, the filter can remain in continuous rotation, while the scraper is moved only when necessary, at preset intervals, ensuring maximum filtration efficiency and minimal turbulence of the lubricating coolant.



3,000-LITER CUTTING FLUID FILTRATION TANK



SUPERFILTRATION

SUPPLY

- Self-cleaning drum filter made of painted metalwork, sealed airtight, positioned above the tank
- Filtration mesh
- Removable drum cover
- Counter-washing system for the drum complete with micro nozzles
- 1 minimum and maximum lubricating coolant level sensor
- 1 motor-reducer for drum movement
- 1 motor-reducer for scraper system movement
- Visual inspection window
- Drain connections for emptying the rotfilter, complete with valve and overflow
- Grundfos pump for counter-washing the rotfilter, complete with pressure gauge and hydraulic connection to the rotfilter

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