

OFF-LINE FILTERS WITH HEATED UNIT

RMF Systems

*The guarantee
of
problem free
hydraulics*



RMF SYSTEMS

RMF Systems radial micro filter units are characterised by their extremely efficient filter elements with a fineness of 0.5 micron. The Off-line filter units with pre-heating are developed specially for cold hydraulic and lubricating systems.

The electric pre-heating ensures that the cold and/or high viscosity fluid is brought to a temperature with a suitable filtration viscosity. Off-line filters with pre-heating can be applied to new or existing installations.

The integrated pump-motor combination draws fluid from the reservoir, pumps it through a heating element, filters it and returns it to the tank. The heating is thermostat controlled and adjustable to any required fluid temperature. The heating is effected by a 'flow-through' principle, preventing 'burning' or thermal overloading of the oil.

ECONOMICAL

The hydraulic market accepts that 80% of the mechanical failures are caused by contamination in the system.

The RMF Off-line filters attack this contamination at source.

In addition to solid particles, these filters are also capable of removing water from the oil.

This prevents the catalytic reaction of water and solid particle contamination, resulting in an extended usable oil life.

The use of RMF-filters means reduced down time, increased component life and extended service intervals with reduced oil changes.

APPLICATIONS

RMF Off-line filter units with pre-heating can be applied to any industrial application where it is necessary to heat the oil and maintain it at a particular temperature, such as hydraulically operated bridges and gear-boxes in the wind energy industry.

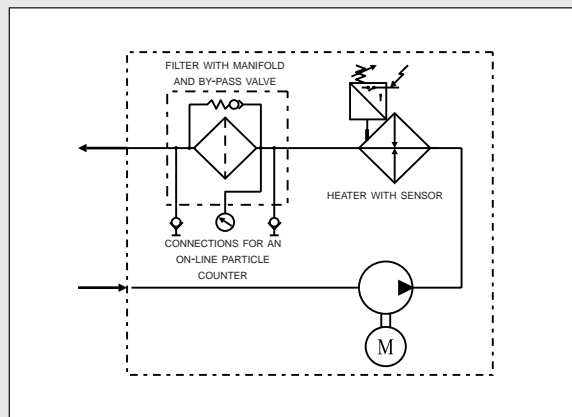
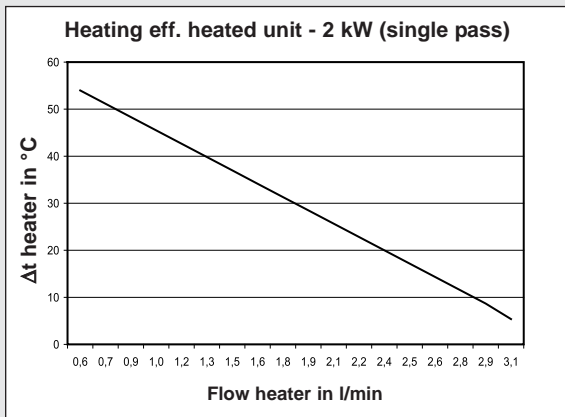
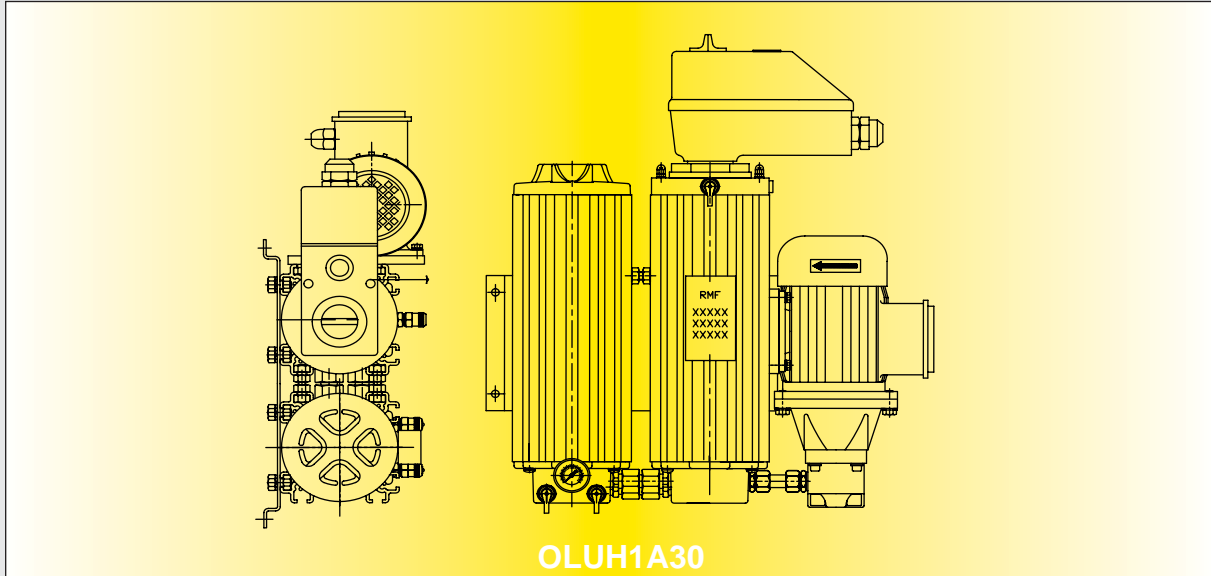
ADVANTAGES

- Extremely clean oil due to the high filtration efficiency $\beta_{0.5} \geq 200$, $\beta_2 \geq 2,330$.
- Prevention of channel forming by radial filtration direction.
- Increased flow capacity.
- Increased dirt holding capacity.
- Large water holding capacity.
- Compact and easy-maintenance design.
- Environmentally friendly elements.
- Longer usable life for oil and components.



www.bsf-filtertechnik.com

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Technical data			
Type filter	OLUH1A30	OLUH2A30	OLUH1B30
No. of housings filter/heater	1 / 1	2 / 1	1 (double length)/1
Material housing	Anodised aluminium		
Seal material heater	Viton standard		
Seal material filter	Buna-N standard		
Max. flow capacity	2.9 l/min max.		
Max. pump volume 50Hz-60Hz	2 cc/rev. - 1.6 cc/rev.		
By-pass opening pressure at 0 bar back pressure	± 6.2 bar		
No. of filter elements	1	2	
Length filter element	300 mm		
Available filtration ratings	β 0,5 = 200 / β 1 = 200 / β 3 = 200		
No. of heater elements	1		
Length of heater element	300 mm		
Heater capacity	2 kW		
Max. pressure filter housing	20 bar		
Max. oil temp. inlet	80 °C		
Indicator type	Gauge glycerine filled		
Inlet port pump	3/8" BSP		
Diameter hose suction side	Achieve positive flow under gravity		
Outlet port filter	1/2" BSP		
General dimensions in mm	567.5	492	179.5
Pump type	Gear pump standard		
Power supply E-motor = power supply heater element	Various electrical power supplies possible		
Suitable for max. oil volume	1,350 litre	2,700 litre	
Connection oil-analyses:			
P1 filter inlet side	Test connector (M16x2) Red		
P2 filter outlet side	Test connector (M16x2) Yellow		
Weight in kg standard filter	Approx. 23.5		
Weight in optional bracket	Incl.		

Your RMF Systems distributor

BSF_{bov}
FILTERTECHNIEK

KOPPEN & LETHEM

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