

RMF Systems

RMF Systems radial micro filter units are characterized by their extremely efficient filter elements with a fineness of 0.5 micron.

Specially designed for industrial hydraulic installations, the RMF Off-line filters are available in single or multiple housing configurations. The Off-line filter units can easily be mounted to new and existing hydraulic installations.

By means of an integrated motor/pump unit and an Off-line filter, the oil is pumped from the reservoir through the filter unit and after filtering the oil is then returned to the tank.

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 the 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 extended usable life.

The application of RMF filters results in lower component failure rates, less down time and less system maintenance.

In recent years RMF Systems have developed a great deal of experience in cleaning and drying hydraulic and lubrication systems in the following markets:

- steel industry
- maritime industry
- petrochemical industry
- paper industry



Heated Off-line Filters

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 the fluid and returns it to the reservoir.

Advantages

- Extremely clean oil due to the high filtration efficiency $B_{0.5} \geq 200$, $B_2 \geq 2330$
- Prevention of channel forming by radial filtration direction
- Increased flow capacity
- Increased dirt holding capacity
- Large water holding capacity
- Compact and easy maintenance design
- Longer usage life for oil and components

Ordering Code

OLSH - 1A - 30 - G1 - B - 0 - 0 - 0 - 0 - 0

Basic Configuration	
OLSH	Off-Line Heated Filter (industrial applications)

Housing Configuration			
Code	Single length	suitable for reservoir size	N° of elements
1A	Single Housing Single Length	1,350 l (357 gal)	1
1B	Single Housing Double Length	2,700 l (713 gal)	2

Filter Element Length	
30	300 mm (standard)

Filter Material	
H	Cellulose 0,5µm (standard)
G01	1 micron microglass
G03	3 micron microglass
A05	5 micron microglass and polymer (water absorption)

Seal Material	
B	NBR (Buna-N®) (standard)
V	FPM (Viton)

Options	
0	None

Indicator	
0	Pressure Gauge
1	Including water sensor

Pump Options		
Code	Standard for 50 Hz Motor	Standard for
00	1.6 cc / rev	OLS1A
10	3.15 cc / rev	OLSH1B
60	1.0 cc / rev	
Code	Standard for 50 Hz Motor	Standard for
01	1.25 cc / rev	OLS1A
11	2.5 cc / rev	OLSH1B

E-Motor Options	
0	230/400 VAC 50 Hz 3 phase 255/460 VAC 60 Hz 3 phase
A	230 VAC 50 Hz 1 phase
E	230/400 VAC 50 Hz 3 phase, IP65
F	230 VAC 60 Hz 1 phase

Ordering Code Filter Elements

SRM - 30HB - 1

Filter Element	
SRM-30HB	0.5 micron cellulose
SRM-30G01B	1 micron microglass
SRM-30G03B	3 micron microglass
SRM-30A05B	5 micron microglass and polymer
For more details, see page F143 ... F144.	

Quantity	
1	1 pcs. filter element
15	box with 15 pcs. filter element

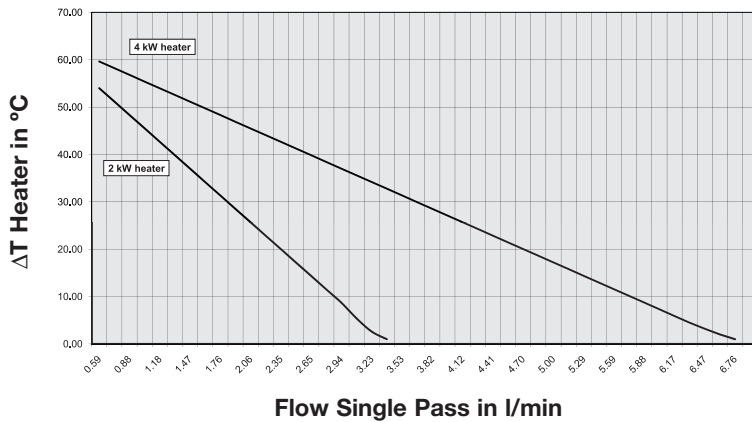
Technical Data Heated Off-Line Filters

	OLSH-1A-30	OLSH-1B-30
Number of filter housings	1	1
Nominal flow rate	2.1 l/min (0.6 US GPM)	4.2 l/min (1.2 US GPM)
Max differential pressure	max. 6.2 bar (90 PSI) without back pressure	
Max fluid temperature	80C (176F)	
Max housing pressure	20 bar (290 PSI)	
Heater capacity	2kW	
Connection suction side	3/8" BSP	
Connection return side	1/2" BSP	
Hose diameter	1/2" - 3/4" (inner diameter) flexible hose	
Weight (including element)	24 kg (44 lbs)	28 kg (62 lbs)
Max system volume	1,350 l (356 gal)	2700 l (713 gal)
Dimensions (H X W X D)	570 X 458 X 190 mm (22.4 X 18.0 X 7.5 in)	730 X 485 X 190 mm (28.7 X 18.0 X 7.5 in)
Connection for on-line particle counter	Stauff Test (M16 X 2)	Stauff Test (M16 X 2)
Pump	Gear pump	
Motor	See page F136 for electric motor details	

All dimensions in mm (*inch*)

RMF Heating Efficiency Curve

(l/min) Single Pass



Heated Unit Hydraulic Schematic

