



STAUFF

Filters

Offline and Bypass filters

OLSH



HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



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Heated Offline Filters ▪ Type OLSH

Product Description

STAUFF System Units are characterized by their pre-heating unit and extremely efficient filter elements with a fineness of 0,5 micron.

Specially designed for industrial hydraulic installations, the STAUFF Offline Filters are available in single or multiple housing configurations. The Offline Filter Units can easily be mounted to new and existing hydraulic installations.

By means of an integrated motor/pump unit and an Offline 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 70 % of the mechanical failures are caused by contamination in the system. The STAUFF Offline 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 STAUFF Filters results in lower component failure rates, less down time and less system maintenance.

In recent years STAUFF 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 Offline Filters

The electric pre-heating ensures that the cold and/or high viscosity fluid is brought to a temperature with a suitable filtration viscosity. Offline 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 $\beta_{0,5} \geq 200$, $\beta_2 \geq 2330$
- 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

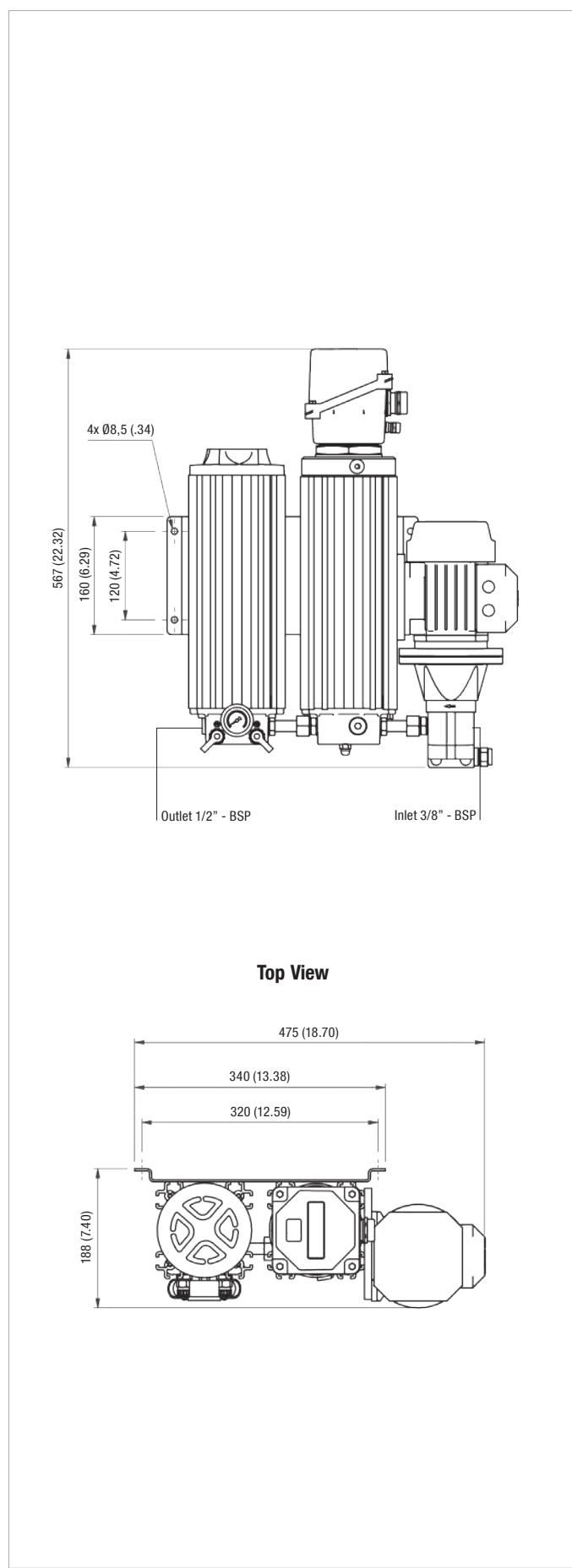


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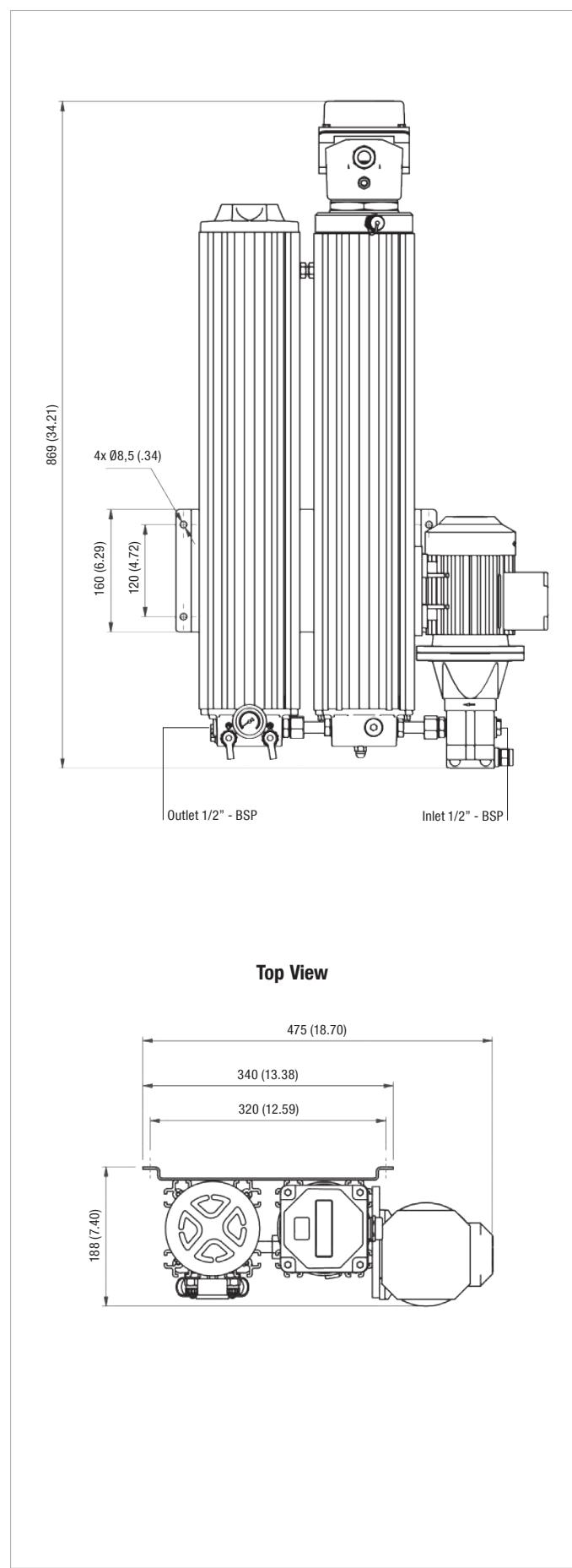


Heated Offline Filters ▪ Type OLSH

Dimensions OLSH-1-30-H-B



Dimensions OLSH-1-60-H-B



All dimensions in mm / in

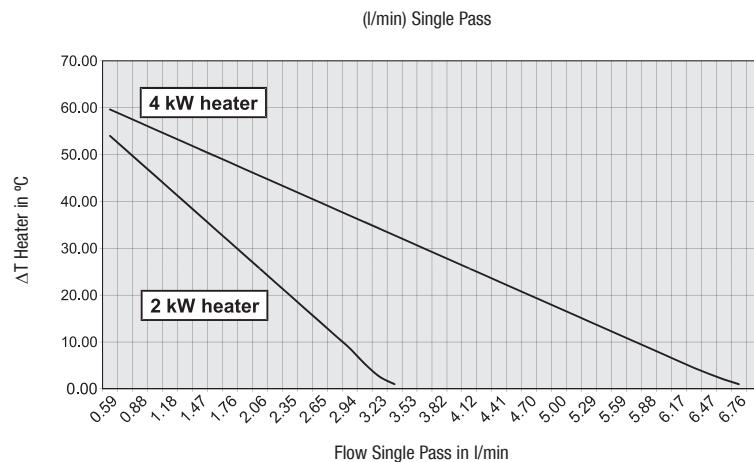


Heated Offline Filters ▪ Type OLSH

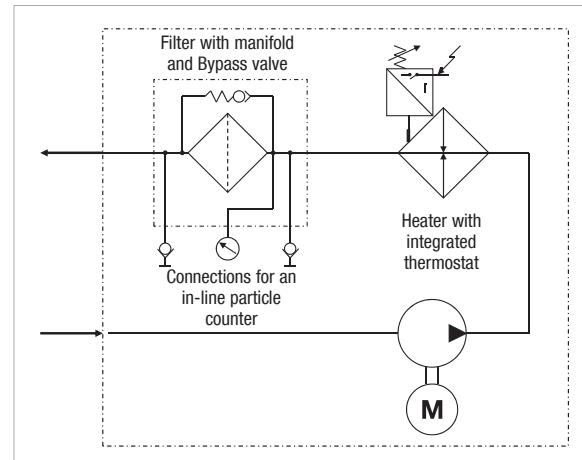
Technical Data Heated Offline Filters

	OLSH-1-30-H-B	OLSH-1-60-H-B
Number of Filter Housings	1	1
Nominal Flow	2,1 l/min .6 US GPM	4,2 l/min 1.2 US GPM
Max. Differential Pressure	6,2 bar 90 PSI	
Max. Fluid Temperature	+80 °C +176 °F	
Max. Housing Pressure	20 bar 290 PSI	
Heater Capacity	2 kW	
Connection Suction Side	G3/8	G1/2
Connection Return Side	G1/2	G1/2
Hose Diameter	1/2 in (inner diameter) flexible hose	3/4 in (inner diameter) flexible hose
Weight (including Element)	24 kg 44 lbs	28 kg 62 lbs
Max. System Volume	1350 l 356 gal	2700 l 713 gal
Dimensions H x W x D	567 x 475 x 188 mm 22.32 x 18.70 x 7.40 in	869 x 475 x 188 mm 34.21 x 18.70 x 7.40 in
Connection for Online Particle Counter	STAUFF Test (M16 x 2)	STAUFF Test (M16 x 2)
Pump	Gear Pump	
Motor	See page 196 for electric motor details	
Connection Oil-Analysis: P1 filter inlet side P2 filter outlet side	Test connector (M16 x 2) Red Test connector (M16 x 2) Yellow	

STAUFF Heating Efficiency Curve



Heated Unit Hydraulic Schematic



Heated Offline Filter Housings / Complete Filters ▪ Type OLSH

OLSH	-	1	-	30	-	H	-	B	-	A	-	00	-	V	-	O
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)								
① Type Heated Offline Filter Unit (for industrial applications) OLSH																
② Housing Configuration Single housing 1																
③ Filter Element Length 300 mm / 11.81 in 30																
600 mm / 23.62 in 60																
④ Filter Material																
Material	Micron Rating μm	Code														
Cellulose (standard)	0,5	H														
Inorg. glass fibre	1	E-01														
Inorg. glass fibre	3	E-03														
Inorg. glass fibre	5	E-05														
Inorg. glass fibre	10	E-10														
Inorg. glass fibre	20	E-20														
Inorg. glass fibre and polymer (water absorption)	5	EA														
Note: Special motors on request.																
⑤ Sealing Material NBR (Buna-N®) (standard) B																
FKM (Viton®) V																
⑥ E-Motor Options																
Type		Code														
230/400 V AC, 50 Hz, three phases, 1360 r/min																
255/460 V AC, 60 Hz, three phases, 1630 r/min (50 Hz and 60 Hz standard)		A														
230 V AC, 50 Hz, single phase G																
230/400 V AC, 50 Hz, three phases, IP65 A-IP65																
230 V AC, 60 Hz, single phase, 1630 r/min H																
⑦ Pump Options																
Standard for 50 Hz Motor	Standard for	Code														
1,6 cc/rev.	OLSH-1-30-H-B	00														
3,15 cc/rev.	OLSH-1-60-H-B	10														
1.0 cc / rev.		60														
60 Hz Motor	Standard in	Code														
1,25 cc / rev.	OLSH-1-30-H-B	01														
2,5 cc / rev.	OLSH-1-60-H-B	11														

G

Filter Elements ▪ Type SRM

SRM	-	30	-	H	-	B	/	X
(1)	(2)	(3)	(4)	(5)				
① Type Filter Element Series SRM								
② Filter Element Length 300 mm / 11.81 in 30								
600 mm / 23.62 in 60								
③ Filter Material and Micron Rating								
Material	Micron rating μm	Code						
Cellulose (standard)	0,5	H						
Inorg. glass fibre	1	E-01						
Inorg. glass fibre	3	E-03						
Inorg. glass fibre	5	E-05						
Inorg. glass fibre	10	E-10						
Inorg. glass fibre	20	E-20						
Inorg. glass fibre and polymer (water absorption)	5	EA						
④ Sealing Material NBR (Buna-N®) (standard) B								
FKM (Viton®) V								
⑤ Design Code Only for information X								



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