

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

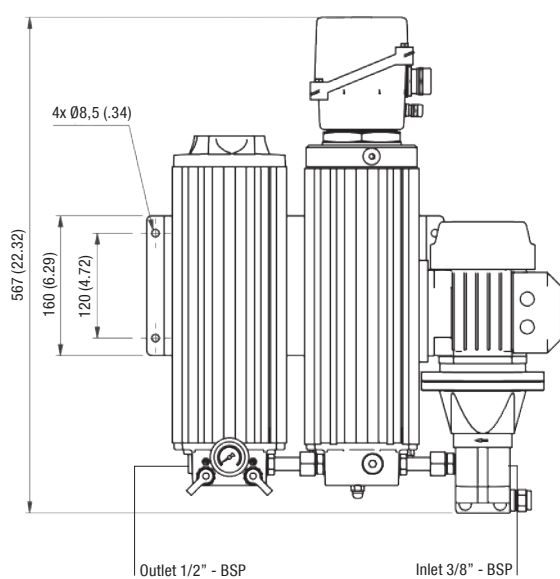


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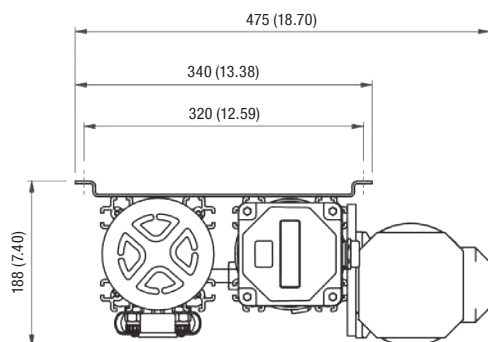


## Heated Offline Filters ▪ Type OLSH

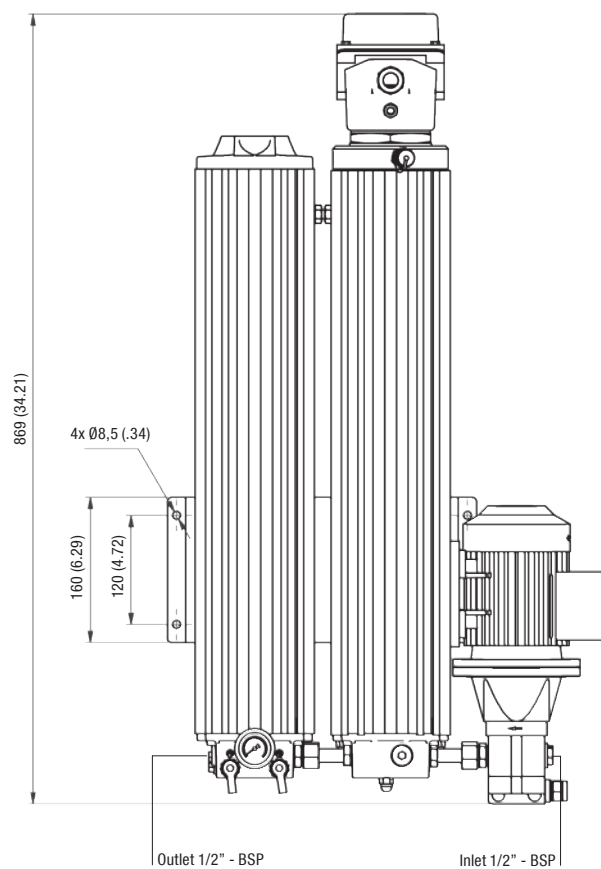
### Dimensions OLSH-1-30-H-B



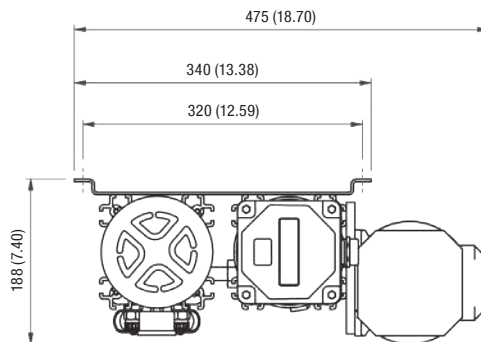
Top View



### Dimensions OLSH-1-60-H-B



Top View



All dimensions in mm / in

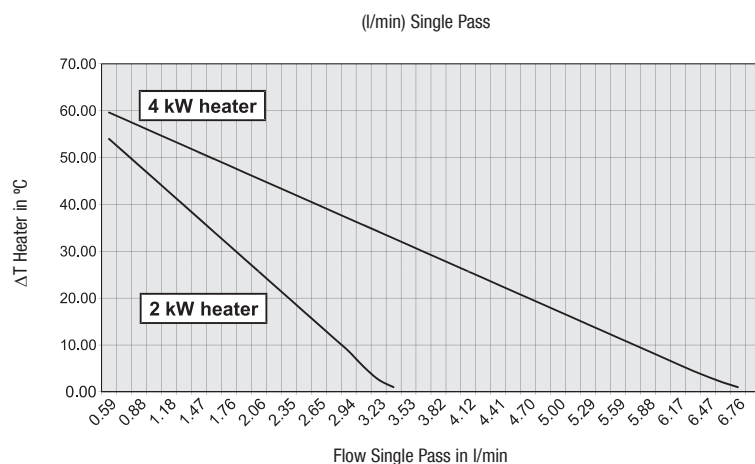


## Heated Offline Filters ■ Type OLSH

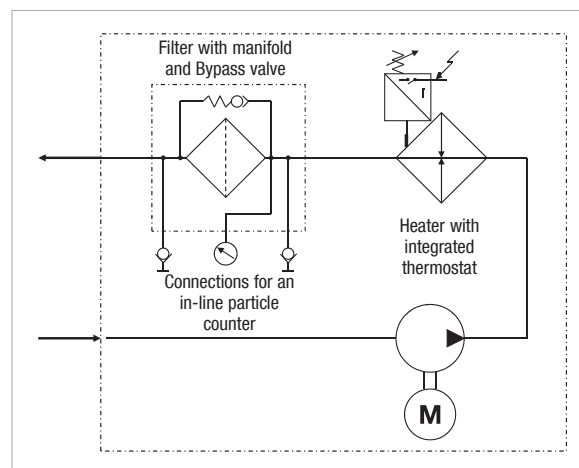
## Technical Data Heated Offline Filters

	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

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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 $\mu\text{m}$	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

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	A
255/460 V AC, 60 Hz, three phases, 1630 r/min	
(50 Hz and 60 Hz standard)	
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

Note: Special motors on request.

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

8 Clogging Indicator

Visual clogging indicator

9 Mounting Options

No options (standard)



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