

Oil Treatment System OTS

Flow capacity: 5 l/min to 32 l/min

1. Brief description

Safe, fully automatic filtration and water separation

- Use in industry, power stations and in shipping
- Microfiltration and water separation in one system
- Fully automatic operation
- Maximum effectiveness combined with long service times
- Mature technology and sturdy design
- High operational safety
- Residual water content less than 70 ppm free water content and thus significantly more efficient than conventional treatment systems
- Little space required thanks to compact design
- Low operating costs
- Low maintenance requirement
- Service-friendly and easy to use
- Global sales and service network in place



2. Function

The OTS is used for oil filtration and separation. The system is delivered on a frame and includes two treatment stages (filter stage / separation stage). The geared pump pumps the medium to the treatment stages where the oil is filtered and separated. Water is detected by a probe and discharged automatically.

The soiling of the treatment stages is monitored using the differential pressure. If the differential pressure reaches 1.5 bar, the main alarm appears and the respective treatment element must be replaced.

3. Purpose

Medium:	Lubricating oil
Viscosity:	5 ... 68 cST (at 40 °C)
Water content inlet:	max. 1000 ppm
Filtration:	5 µm (other filter grades on request)
Water content outlet:	approx. 70 ppm free water content

4. Operating parameters

OTS type	5	8	16	32
Flow capacity [l/min] approx.	5	8	16	32
Ambient temperature [°C]	min. 2 - max. 55			
Operating temperature [°C]	min. 10 - max. 45			
Operating pressure [bar]	min. 0.7 - max. 6			
Pressure loss [bar]	max. 3			

5. Technical data

5.1 Electrical data/control				
OTS type	5	8	16	32
Power consumption [kW]	< 2	< 3	< 3	< 4
Control voltage	24V AC			
Protection class	min. IP54			
Operating mode	Automatic			
Potential-free contacts	- Collective alarm - Monitoring of pump operation			
Colour of switch cabinet	RAL 7035			

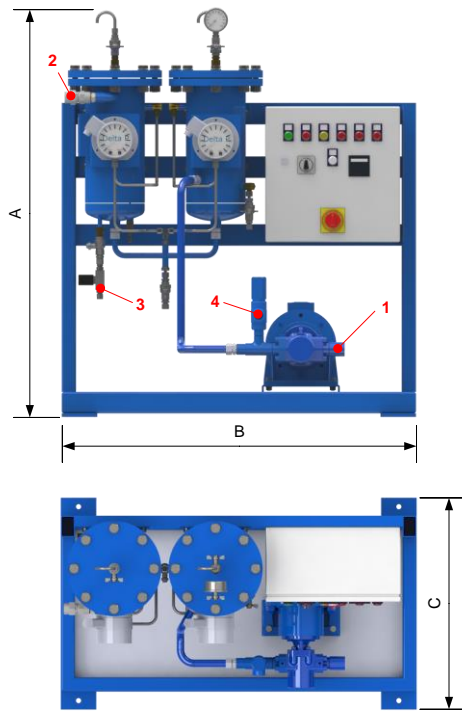
5.2 Tank	
Design pressure [bar]:	6
Design temperature [°C]:	120
Testing pressure [bar]:	9
Design code:	GL
Material:	Steel
Corrosion allowance [mm]:	1

5.3 Steel structure finishing	
Frame:	Sand-blasted SA 2½, coated
Pipes:	Sand-blasted SA 2½, coated
Outside of tank:	Sand-blasted SA 2½, coated
Inside of tank:	Sand-blasted SA 2½
Colour:	RAL 5019
(double coating comprising primer coat and top coat – dry layer thickness: 120µm)	

6. Pump

OTS type	5	8	16	32
Flow capacity [l/h] approx.	5	8	16	32
Suction lift [m]	max. 2			
Pumping height [m]	min. 3			
Opening pressure relief valve [bar]	4			

7. Dimensions and main connections



- 1 Inlet
- 2 Outlet
- 3 Water drain
- 4 Relief valve

OTS type	5	8	16	32
A	1182	1279	1640	1640
B	1000	850	850	1210
C	590	700	700	800
1	½"	DN25	DN40	DN50
2	½"	DN25	DN25	DN25
3	8x1	8x1	8x1	8x1
4	¾"	1"	1"	1 ¼"

8. Order numbers

8.1 System			
Type	Volume flow approx. [l/min]	Electrical power supply	Order number
OTS 5	approx. 5	400/440 V AC 50/60Hz	70806139
OTS 8	approx. 8	400/440 V AC 50/60Hz	On request
OTS 16	approx. 16	400/440 V AC 50/60Hz	70806080
OTS 32	approx. 32	400/440 V AC 50/60Hz	On request

8.2 Spare parts		
Type	Designation	Order number
OTS 5	SPARE PARTS SET OTS-5	72344344
OTS 8	SPARE PARTS SET OTS-8	72344345
OTS 16	SPARE PARTS SET OTS-16	72344346
OTS 32	SPARE PARTS SET OTS-32	72344347

9. Additional options

Deviating design (wall system), coating, voltage supply, volume flows and many other options available on request.