

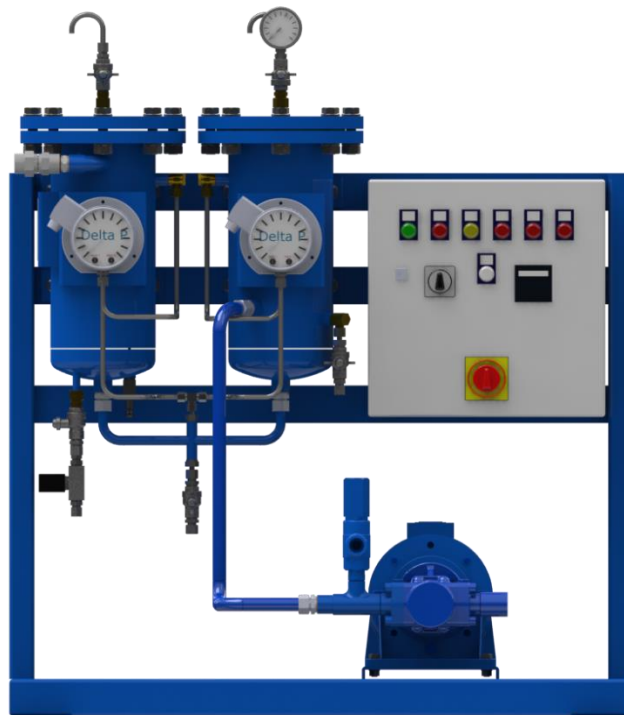
Fuel Treatment System FTS

Flow capacity: 600 l/h to 4500 l/h

1. Brief description

Safe, fully automatic filtration and water separation

- Use in industry, power stations and 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



2. Function

The FTS is used for fuel 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 fuel is filtered and separated. 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. Approvals / acceptances

Classification: Germanischer Lloyd Type Approval
 Acceptances: On request

4. Purpose

Medium: DMX, DMA, DMB in accordance with DIN ISO 8217
 Diesel fuel in accordance with DIN EN 590
 Viscosity: 2 ... 13 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

5. Operating parameters

FTS type	600	1200	1800	2400	3000	4500
Flow capacity [l/h] approx.	600	1200	1800	2400	3000	4500
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					

6. Technical data

6.1 Electrical data/control						
FTS type	600	1200	1800	2400	3000	4500
Power consumption [kW]	< 2	< 3	< 3	< 4	< 4	< 5
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					

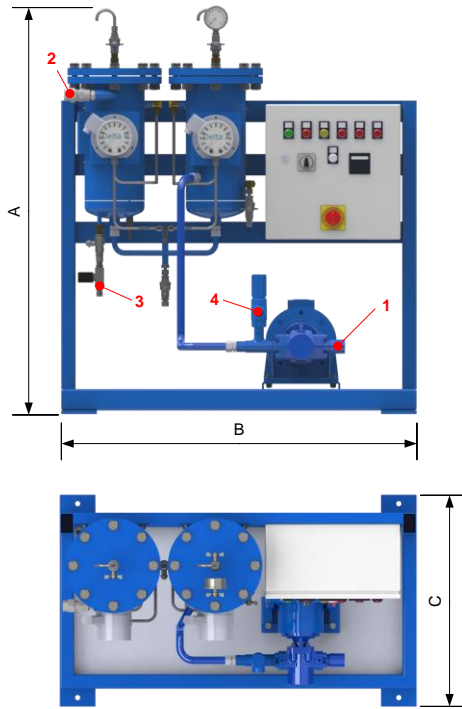
6.2 Tank	
Design pressure [bar]:	6
Design temperature [°C]:	120
Testing pressure [bar]:	9
Design code:	GL
Material:	Steel
Corrosion allowance [mm]:	1

6.3 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)	

7. Pump

FTS type	600	1200	1800	2400	3000	4500
Flow capacity [l/h] approx.	600	1200	1800	2400	3000	4500
Suction lift [m]	max. 2					
Pumping height [m]	min. 3					
Opening pressure relief valve [bar]	4					

8. Dimensions and main connections



FTS type	600	1200	1800	2400	3000	4500
A	1182	1279	1279	1640	1640	1640
B	1000	850	850	850	850	1210
C	590	700	700	700	700	800
1	½"	DN25	DN25	DN40	DN40	DN50
2	½"	DN25	DN25	DN25	DN25	DN25
3	8x1	8x1	8x1	8x1	8x1	8x1
4	¾"	1"	1"	1"	1"	1¼"

Dimensions except for 4 and FTS 600 1 and 2 in mm.

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

9. Order numbers

9.1 System			
Type	Volume flow approx. [l/h]	Electrical power supply	Order number
FTS 600	600	400/440 VAC 50/60Hz	72337821
FTS 1200	1200	400/440 VAC 50/60Hz	70805416
FTS 1800	1800	400/440 VAC 50/60Hz	70806070
FTS 2400	2400	400/440 VAC 50/60Hz	70806659
FTS 3000	3000	400/440 VAC 50/60Hz	72368300
FTS 4500	4500	400/440 VAC 50/60Hz	70806658

9.2 Spare parts		
Type	Designation	Order number
FTS 600	SPARE PARTS SET FTS600	72344113
FTS 1200	SPARE PARTS SET FTS1200	72344114
FTS 1800	SPARE PARTS SET FTS1800	72344115
FTS 2400	SPARE PARTS SET FTS2400	72344116
FTS 3000	SPARE PARTS SET FTS3000	72344117
FTS 4500	SPARE PARTS SET FTS4500	72344115

10. Additional options

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

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