

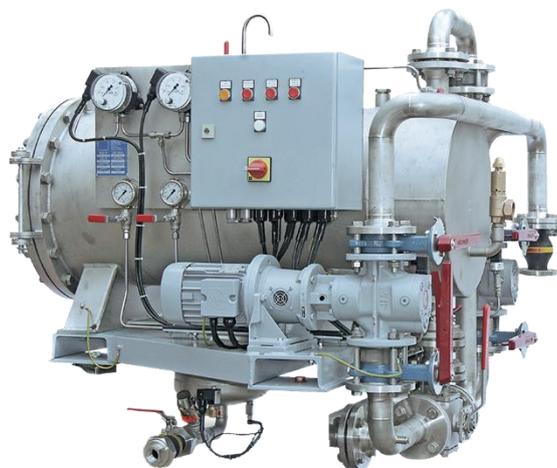
## Fuel Treatment System PTS

Flow capacity: 5.000 l/h to 50.000 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 PTS is used to separate water from fuel. The fuel to be cleaned flows radially from the inside to the outside through the coalescer filter elements. Fine filtration takes place in the inner layer, while the outer layer drains the fuel. The special, hydrophilic material turns the finest water droplets into a droplet size of approx. 3 mm coalesced.

These then sink into the water collecting dome. The fuel now flows through the separator element into the pressure vessel outlet. The water-repellent material of the separator membrane holds back any tiny water droplets that may have remained in the fuel. The fuel is then filtered and drained.

## 3. Approvals/acceptances

Classification: DNV, others on request  
 Acceptances: on request

## 4. Purpose

Medium: DMX, DMA, DMB in accordance with DIN ISO 8217  
 Diesel fuel in accordance with DIN EN 590, NATO fuel as F75, F76 etc.  
 Viscosity: 2 ... 13 cST (bei 40 °C)  
 Water content inlet: max. 1000 ppm  
 Filtration rate: in accordance with customer specification  
 Water content outlet: approx. 70 ppm free water content

## 5. Operating parameters

PTS type	500	600	800	other sizes on request
Flow capacity [l/h] approx.	max.8.000	max.12.000	15.000- max.50.000	
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 Tank	
Design pressure [bar]:	6
Design temperature [°C]:	100
Testing pressure [bar]:	9
Design code:	DNV
Materials:	Steel/Stainless steel

6.2 Steel structure finishing	
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: 120 µm)	

## 7. Dimensions and main connections



PTS type	500	600	800*	others on request		
H	1700	1279	1279			
B	1200	850	850			
T	800	700	700			
Inlet	DN50	DN65	DN150			
Outlet	DN50	DN65	DN150			

\* PTS 800 possible in vertical or horizontal design

## 8. Order numbers

8.1 System			
Type	Volume flow approx. [l/h]	Electrical power supply	Order number
PTS 500	max. 8000	400/440 VAC 50/60Hz	is assigned on a job-specific basis
PTS 600	max. 12.000	400/440 VAC 50/60Hz	
PTS 800	15.000 - max. 50.000	400/440 VAC 50/60Hz	

## 9. Additional options

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