

## FTK FF 4-16P (Stationary) Stainless Steel Filter System

### Description

Automatic stationary sidestream filtration machine for heating- and cooling water circuits from approx. 1 MW and more rated thermal power as well as industrial fluid circuits.

### General operating data:

Filter media:	Water in closed heating- and cooling circuits
Operating temperature:	Min. 1° C to Max. 95°C
Filter-flow rate:	Max. 10 m <sup>3</sup> /h
Connection voltage:	1 x 230 v - 250 v, 50 Hz
Coating color:	powder coated RAL 6011
Limit of supply:	a) Intake at filter pump = ball valve 1 ¼" female. b) Outlet at pressure tank = ball valve 1 ¼" female.



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The machine comes fully assembled and consists of the following components:

- Pos. 1: 1 Skid/ground plate and pod, stainless steel**  
Measures: length x width x height = approx. 560 x 420 x 250 mm.  
Partially powder coated, for connection of filter-pump and pressure tank.
- Pos. 2: 1 Filter pump**  
Horizontal bloc pump layout, motor and pump are a single unit.  
Flow rate: up to 10 m<sup>3</sup>/h  
pressure: up to 2.0 bar  
Power consumption app. 0.5 Kw  
Electrical protection: IP 54
- Pos. 3: Internal pipes and fittings**  
Designed in DN25 between pump and filter pressure tank, DN8 for differential pressure pipes.
- Pos. 4: 1 Electric switchbox**  
For automatic filtermachine operation, signal setting for pump switch-off when max. differential pressure is reached, potential free contact for external signal, mounted on the filtermachine and electrically connected. With adjustable intermittent operating time clock and power failure safeguard. Including 2.0m 230V cable. Contacts for external control e.g. emergency shut-off available.
- Pos. 5: 1 Microfilter type FTK FF 4-16**  
Housing and lid from regular steel with flange lid for easy maintenance.  
With manual bleeding valve. Draining with ball valve DN ½". Manifold to fit 4 pcs. of FTK filter cartridges.  
Maximum differential pressure in soiled filter: 1.5 bar.  
Operating pressure: 16 bar max.  
Filtration surface: 4 x 1.8 m<sup>2</sup> approx. = 7.2m<sup>2</sup>  
starting fineness of filtration: 0.5 - 40 µm starting fineness, depending on the filter cartridge type  
Filter cartridge: 1 set (4 pcs.) filter cartridges type FTK FF-15 (15µm) included
- Pos. 6: 1 Differential pressure measuring unit type FTK 03**  
With optical scale 0 – 2.0 bar, with membrane technology (pollution insensible), with reed contact, mounted on the filter, electrically connected. Reed contact pre-adjusted to 1.5 bar switch point.  
Option: 1: Incl. potential free contact for external signal, external on/off, mounted on the filtermachine and electrically connected. With adjustable intermittent operating time clock and power failure safeguard.  
Option: 2: With heavy duty components (ss pump, heavy lid) for system pressure up to 16 bar (230 psi).
- Pos. 7: 1 Set (1 pc.) filter cartridges type FTK FF-15 (15µm)**  
Further grades available, e. g. 0.5µm, 1µm, 5µm, 40µm, as well as stainless steel filter cartridges
- Pos. 8: 1 piece magnetite separator type FTK M500-25-40**  
very high strength NeoDym magnets in stainless steel housings easy to retrieve and to clean.
- Pos. 9: Floor decoupling mounting kit for FTK stationary filter machines**

