

FTK FF 1-6PE (Stationary)

Stainless Steel Filter System

Description

Automatic side stream filtration machine for heating and cooling water circuits from approximately 200 kW up to 3 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. 8 m ³ /h
Connection voltage:	1 x 230 v - 250 v, 50 Hz
Coating color:	Metal - Electropolished
Limit of supply:	a) Intake at filter pump = ball valve 1" female. b) Outlet at pressure tank = ball valve 1" female.

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. 400 x 970 x 400 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 8 m³/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 filter machine operation, signal setting for pump switch-off when maximum differential pressure is reached, potential free contact for external signal, mounted on the filter machine 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 are also available.
- Pos. 5:** **1 Microfilter type FTK FF 1-6E**
Housing and lid from stainless steel with a quick release system on top for easy maintenance.
With manual bleeding valve. Tank fits 1 pc. of FTK filter cartridge.
Maximum differential pressure in soiled filter: 1.5 bar.
Operating pressure: 6 bar max. (optional 16 bar available)
Filtration surface: 1 x 1.8 m² approx. = 1.8m²
starting fineness of filtration: 0.5 - 40 µm starting fineness, depending on the filter cartridge type
Filter cartridge: 1 set (1 pc.) filter cartridges type FTK FF-15 (15µm) included
- Pos. 6:** **1 Differential pressure measuring unit type FTK 04**
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 filter machine 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 M250-25-40 Gen. II**
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**



FTK FF 1-6PM
(Option 1 Model)

