Plastic
Automatic Filter

PD-HF

HYDROFILT AUTOMATIC SCREEN FILTERS



Double the Performance. Unleash the Power.

Smart. Automated. Unstoppable. Now amplified. Introducing the dual-body version of our Plastic Automatic Filter. We've taken our revolutionary intelligent automation and corrosion-proof body and doubled the filtration surface area and flow rate capacity. The result? An unrelenting flow of ultra-clean water and unrivaled system protection, even for the most demanding industrial applications.



PD-HF

BEYOND Filtration BEYOND LIMITS

GENERAL **SPECIFICATION**

- Body Material : PA6GFR30
- Cartridge Material : SS304L, PA6GFR30
- Maximum Working Pressure : 8 bar ; 116 Psi
- Minimum Working Pressure : 2 bar ; 29 Psi
- Maximum Working Temperature : 60 °C ; 140°F
- Back Washing Time : Time and Pressure Difference Setup
- Control System : Electronic (AC/DC)
- Filtration Sensitivity : 20-2000 µ (micron)

CLEANING PROCESS

The backwash sequence is triggered for an individual filter unit by either a preset pressure differential or a time interval. Upon activation, the control unit opens the discharge valve of the designated unit. Exposing this valve to atmospheric pressure creates a significant pressure drop, inducing a powerful reverse flow.

This reverse flow drives a hydraulic turbine, which rotates the cleaning collector while a piston moves it linearly. The collector's nozzles generate high-velocity suction, vacuuming accumulated debris from the inner screen and expelling it through the drainage pipe. This combined helical motion ensures a systematic and thorough cleaning of the entire screen surface.

During the backwash process, both sides of the double-body filter continue filtering simultaneously — only a temporary pressure drop is observed. The cleaning sequence is then performed sequentially for each side of the double-body unit.

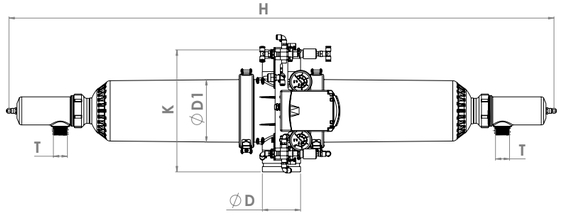
Once complete, the discharge valve closes and the collector returns to its home position, concluding the cycle for that unit. Throughout this self-cleaning process, system filtration continues uninterrupted.

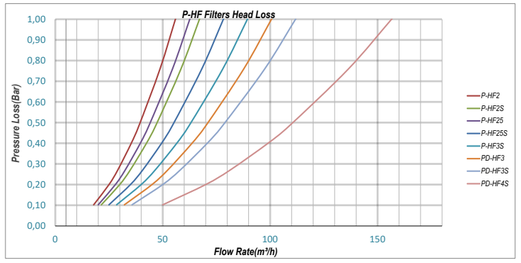
WORKING PRINCIPLE

Water enters the filter and passes sequentially through a coarse and then a fine screen. As contaminants accumulate on the inner surface of the fine screen, a pressure differential is created between the inlet and outlet. A backwash cycle is automatically initiated based on one of two conditions: when this pressure differential reaches a predetermined setpoint, or after a preset time interval has elapsed, whichever occurs first.

Technical Specifications

CODE	Inlet/Outlet (D)		D1	K	T	H	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Screen
	Inch	DN	mm	mm	mm	mm	L/s	GPM(US)	m³/h	GPM(US)	cm²	Qty.	
PD-HF3	3	45	190	365	1,25	1410	1,9	29	45	198	1520	8	4
PD-HF3S	3	50	190	365	1,25	1650	2,8	44	50	220	2280	12	6
PD-HF4S	4	70	190	365	1,25	1650	2,8	44	70	308	2280	12	6





SS304L Stainless Steel Clamp



Plastic Clamp



Connection Type:
Victaulic/Threaded/Flanged

