Plastic
Automatic Filter

P-HF

HYDROFILT AUTOMATIC
SCREEN FILTERS



Smart. Automated.
Unstoppable.

This is the new era of plastic filtration. Our Plastic Automatic Filter fuses intelligent, hands-free automation with a rugged, corrosion-proof body to deliver a constant flow of clean water, ensuring total system protection and long-term reliability.



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 by either a preset pressure differential or a time interval. Upon activation, the control unit opens the discharge valve. 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 as a piston moves it linearly. The collector's nozzles generate a 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. Once complete, the discharge valve closes and the collector returns to its home position, concluding the cycle.

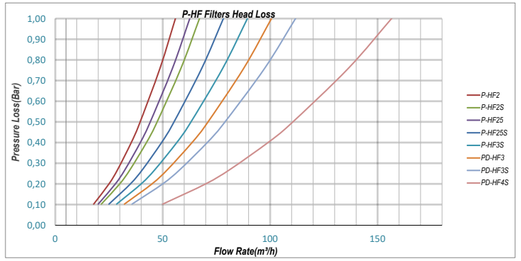
Crucially, the main filtration process continues uninterrupted throughout this self-cleaning process.

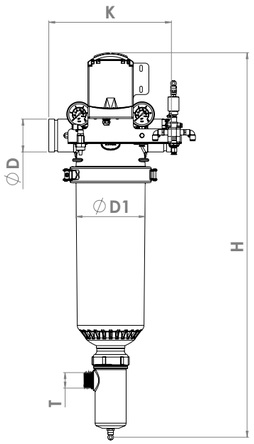
WORKING PRINCIPLE

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.	
P-HF2	2	25	190	335	1,25	870	1,9	29	25	110	760	4	2
P-HF2S	2	30	190	335	1,25	990	2,8	44	30	132	1140	6	3
P-HF25	2,5	28	190	335	1,25	870	1,9	29	28	123,2	760	4	2
P-HF25S	2,5	35	190	335	1,25	990	2,8	44	35	154	1140	6	3
P-HF3S	3	40	190	335	1,25	990	2,8	44	40	176	1140	6	3





Connection Type:
Victaulic/Threaded/Optionally 3" Flanged

SS304L Stainless Steel Clamp



Plastic Clamp



