

Hydrostatic Paper Filter (HPF)

Deep bed gravity coolant filtration technology

Modular solutions for metalworking fluids



Hydrostatic Paper Filter Benefits...

Mayfran's Hydrostatic Paper Filter (HPF) machine is a high efficiency, deep bed gravity filter that can utilize both woven and non-woven fabric media. The HPF is a fully-automated unit, and can be used for cleaning in a wide variety of industrial applications.

The HPF combines the highest level of chip removal equipment capability available today with the most effective coolant filtration possible, due in part to its unique side-seal technology. This design prevents chips and particulates from entering a clean tank.

- Fully automatic operation
- Deep bed gravity technology provides greater levels of filtration capability
- Unique side-sealing technology prevents chip and particulate bypass
- With proper media selection, expect up to a 99% efficiency rating for applications including machining, grinding, drilling, honing, polishing, and washing.



HPF supports various disposable media types to remove fine chip particulates



Unique Side Sealing prevents chips from entering clean tank

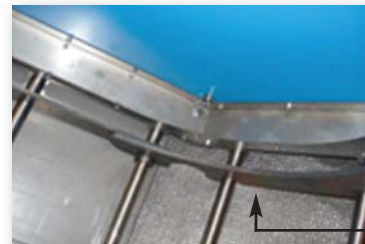
Design Feature Advantages

Compared to other flatbed liners of the same capacity, overall dimensions of the HPF are significantly smaller and can achieve greater filtration levels per square foot of floor space.

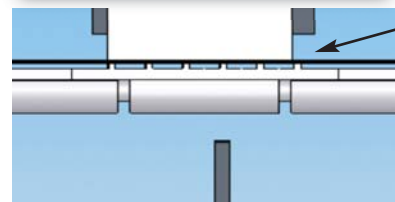
The Hydrostatic Paper Filter (HPF) can process 100 to 1,000 liters per minute of water-based emulsions or neat rolls, containing both metallic and non-metallic particles. The HPF also allows for various types of media (filter papers) for optimum filtration results.

Consult with your Mayfran representative for recommended media options:

- HPF provides flexibility, offering users various disposable media, depending on the type of machining and coolant cleanliness requirements
- Smaller footprint with improved filtration.
- Designed as part of the Mayfran Modular Filter Platform



Side Seal Protection System (Patent Pending)



Filter Paper

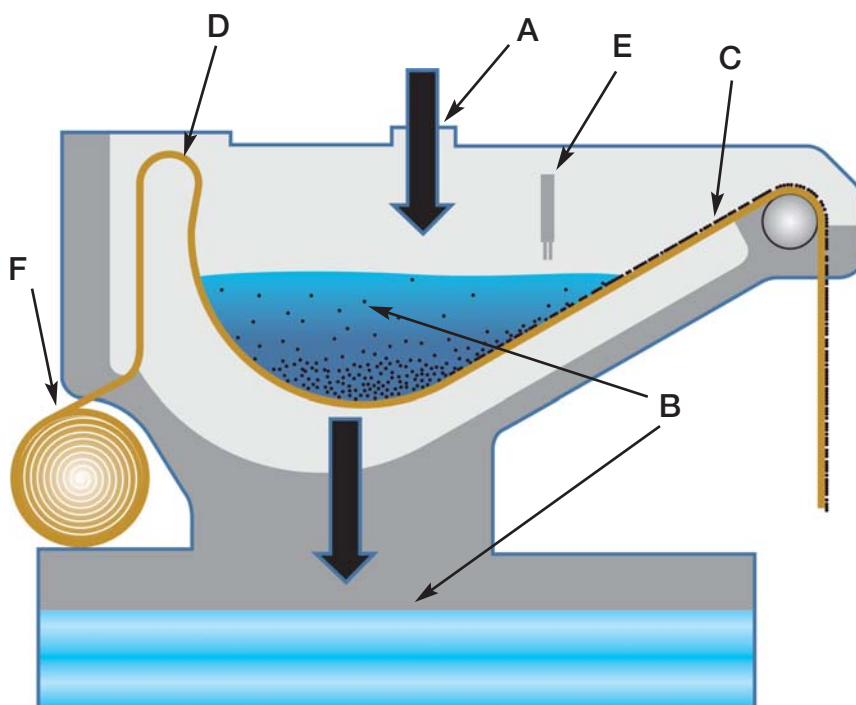
Filter Type	*Flow Rate (Liters/GPM)	Available Media Width
HPF-100	100/25	20 in.
HPF-300	300/75	20/38 in.
HPF-500	500/125	20/38/51 in.
HPF-700	700/175	38/51 in.
HPF-1000	1000/250	51 in.

*Flow rates based on machining with water soluble coolant. Contact Mayfran for more details.

How HPF Filtration Works...

The Hydrostatic Paper Filter (HPF) uses proven deep bed gravity technology for greater levels of filtration capability. With proper media selection, expect up to a 99% efficiency rating for applications including machining, grinding, drilling, honing, polishing, and washing. HPF filtration works as follows:

- A. Dirty coolant enters top of Filter.
- B. Hydrostatic pressure forces the dirty coolant through the Filter Media and into the Clean Tank.
- C. Filter cake forms on Paper Media.
- D. Media Carrier Belt reliably removes filter cake from unit.
- E. High Level Sensor activates Drive Assembly to advance Media when filtering capacity decreases and liquid levels rise.
- F. A Low Media Warning Sensor alerts operators for media replacement or for shutdown if media roll is empty.



Available Options

Mayfran's HPF Hydrostatic Paper Filter is a modular coolant cleaner and filtration unit with a variety of available options:

- Magnetic Pre-Separator
- Immersion Chiller
- High Pressure Coolant System
- Duplex Bag/Cartridge Filter
- Pump Over Tanks
- Cyclonic Filter

For pricing, current availability and a performance-matched solution to best support your application and your coolant cleaning requirements, contact your Mayfran representative today.



*Media Free
Secondary Filtration
Cyclonic Filter*



*Standard Bolt on
Ultra Clean Tank*



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