

Hydrostatic Filtration Systems

Media & Media Free Solutions for Machine Tools .

ITL offer **HM** media, **HMF** media free and **HMR** hydrostatic coolant recycling systems.

Systems are applicable to filter debris such as grinding, composite materials, castings and printed parts fines after machining.

Systems filter at various filtration levels at a wide range of flow rates. The coolants filtered are water-based coolants, low viscosity (light) oils, and dielectric coolants on EDM applications.

Systems configurations are local, central or mobile Skid Mounted (see separate **HMR** Recycling system leaflet) .

Mode of Operation:

Filtration module is divided in dirty and clean sections.

A transfer pump feed dirty coolant to the dirty section above the media. Coolant is gravity forced to penetrate the media and settle in the clean section below. The design avoids dirty coolant to bypass media. The only way coolant can pass through is through the media. On the media a cake starts to build up and blind the media. Coolant level in the dirty section slowly rises. A level sensor is actuated, and media step forward a certain distance (adjustable on the control panel).

The **HM** use a disposable media from a roll. a sensor detect necessity to replace the roll. Used media is disposed in the bin or rewind for easy disposing.

The **HMF** use a continuous nylon belt with auto back wash for media cleaning before reusage. Sludge is disposed in the bin.

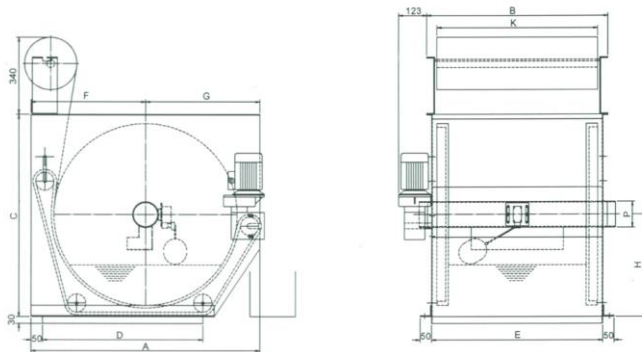
Depend on the applications , filtration modules can easily combine with other type of modules to provide a comprehensive solution .

Sizes and flow rates:

Module sizes and flow rates vary between 100 lpm to 2000 lpm modules.

Filtration levels vary between 15- 50 micron on **HM** media units and 25 – 50 microns on **HMF** units.

HM DIMENSIONS



Model	A	B	C	D	E	F	G	H	Kw
HF100	755	590	650	580	546	380	375	330	0.25
HF200	755	790	650	580	746	380	375	330	0.25
HF350	1000	790	890	700	746	500	500	450	0.25
HF500	1000	1090	890	700	1046	500	500	450	0.25
HF1000	1200	1090	1100	890	1048	600	600	560	0.25
HF1500	1200	1590	1100	890	1548	600	600	560	0.25
HF2000	1200	2090	1100	890	2048	600	600	560	0.25

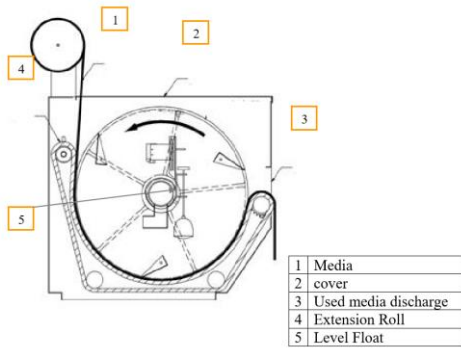


HMR Coolant Recycling Unit



Technical Details

- All models supplied with single phase frequency converters to control motors parameters and easy interfacing with auxiliaries.
- Adjustable media feed via the control panel.



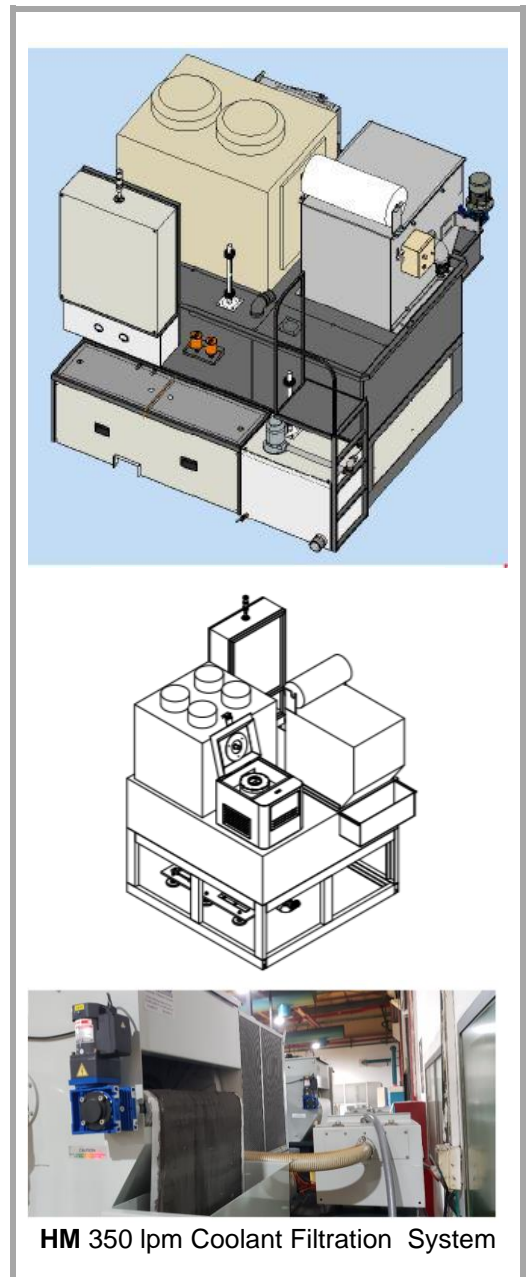
Benefits:

- Modules been designed to filter various water base- coolants, light oils, dielectric EDM coolants, Glass grinding , Industrial Waste water etc.
- System is a cost-effective unit to service small and medium work shops.
- Various level of filtration between 15– 50 microns.
- Various flow rates to handle large or small sumps.
- Media Free and Maintenance free system.
- Easy combination possibilities.
- Friendly interfacing with auxiliaries.
- Finish: RAL colors painted or Stainless-steel fabrication.

We don't sale systems! We provide solutions. So we are open mind to changes.

ITL design & manufacture Various Filtration system for machine tools, grinding, process industry including High Pressure System, Recycling of liquids and solids. Our system can be local, Central or Mobile, Std. or Tailor Made.

- Our System service HNK, Okuma, Maho Dekel, Mori Seiki, Makino, Mazak, Doosan , Haas, Blohm, Rolomatic, Bridgeport ,Michael Dekel and more.



We supply Peripheral solutions such as pumps, Air filtration, Chillers, Sump Cleaners and disposables.

For more details contact:



ENGINEERING AND PRODUCTION OF INDUSTRIAL FILTRATION, RECYCLING, ENVIROTECH SOLUTIONS.
SALES AND AFTER SALES SERVICES.

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