

# VacuFilter® V-Series

Vacuum media coolant filtration technology

Pre-engineered for metalworking fluids

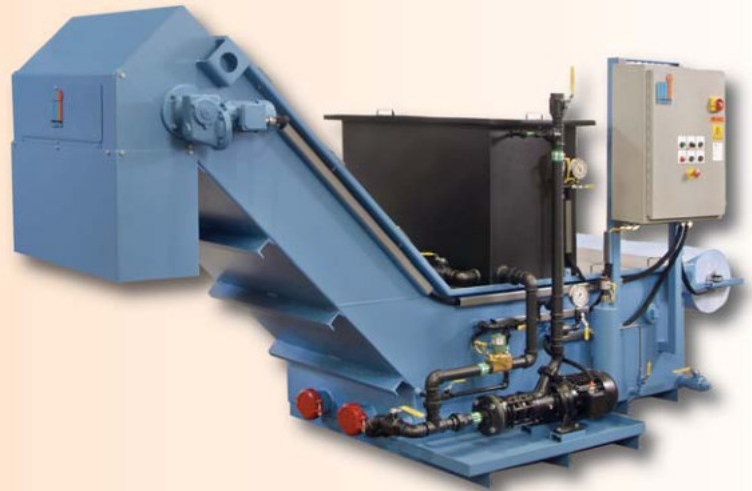


# VacuFilter V-Series Benefits...

Proven reliable technology, Mayfran's VacuFilter® V-Series Coolant Filter is a highly efficient coolant filtration system that is fully automatic and available in pre-engineered modules.

The V-Series can be used for various processes and with various materials, removing fine particulates from metalworking fluids. With proper media selection, expect up to a 99% efficiency rating for applications including machining, grinding, drilling, honing, polishing, and washing.

VacuFilter V-Series pre-engineered modular units enable customers to choose a cost-efficient packaged solution that best fits their needs. They can also select from different types of media, depending upon coolant clarity requirements. Single or multiple pump systems are optional. Maybe the most important V-Series benefit, customers can expect reliable service and simple operation at an affordable price.



*VacuFilter V-Series Model VFV-10 with Mayfran Standard Control Panel*

## Design Feature Advantages

Mayfran's VacuFilter® V-Series Coolant Filter can be adapted and applied to almost any machining and finishing application. Plus, it is well suited to filter the latest metalworking fluids across many of today's modern alloys.

VacuFilter V-Series design reduces complexity of operation and makes it extremely reliable. Customers can choose from six pre-engineered modular solutions with disposable media:

- Pre-engineered modular units available with various media designs
- Accommodates various coolant types:
  - water soluble
  - synthetic
  - or straight oils
- Accommodates flow rates from 25 gpm up to 255 gpm per filter
- Delivers filtration levels down to 10 microns

*Discharge End of a VacuFilter V-Series Coolant System, supplied to an engine component manufacturer*



Filter Model	*Flow Rate (GPM)	Available Media Width
VFV05	85	38 in.
VFV10	125	38 in.
VFV15	165	38 in.
VFV20	170	51 in.
VFV30	210	51 in.
VFV40	255	51 in.

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

# How VacuFilter V-Series Works...

The VacuFilter V-Series captures and removes fine particulate from coolant, providing clean coolant to the machining process. VacuFilter V-Series filtration works as follows:

- A. Dirty coolant enters the filter tank via a dirty coolant inlet connection.
- B. Filter tank holds a volume of dirty coolant to assure continuous, uninterrupted operation.
- C. Media covers the bottom of the filter tank and the septum plate.
- D. The septum plate supports the media.
- E. A pump creates a vacuum, drawing coolant through the filter media, and sending clean coolant to the machining process.
- F. Fine particulates are captured and removed as dirty coolant passes through the filter media.
- G. Disposable filter media is used to meet the specific requirements of filtration.
- H. An automatic conveyor indexes the dirty media through the filter tank (when required).
- I. Clean tank holds clean coolant to be used during the filter index.

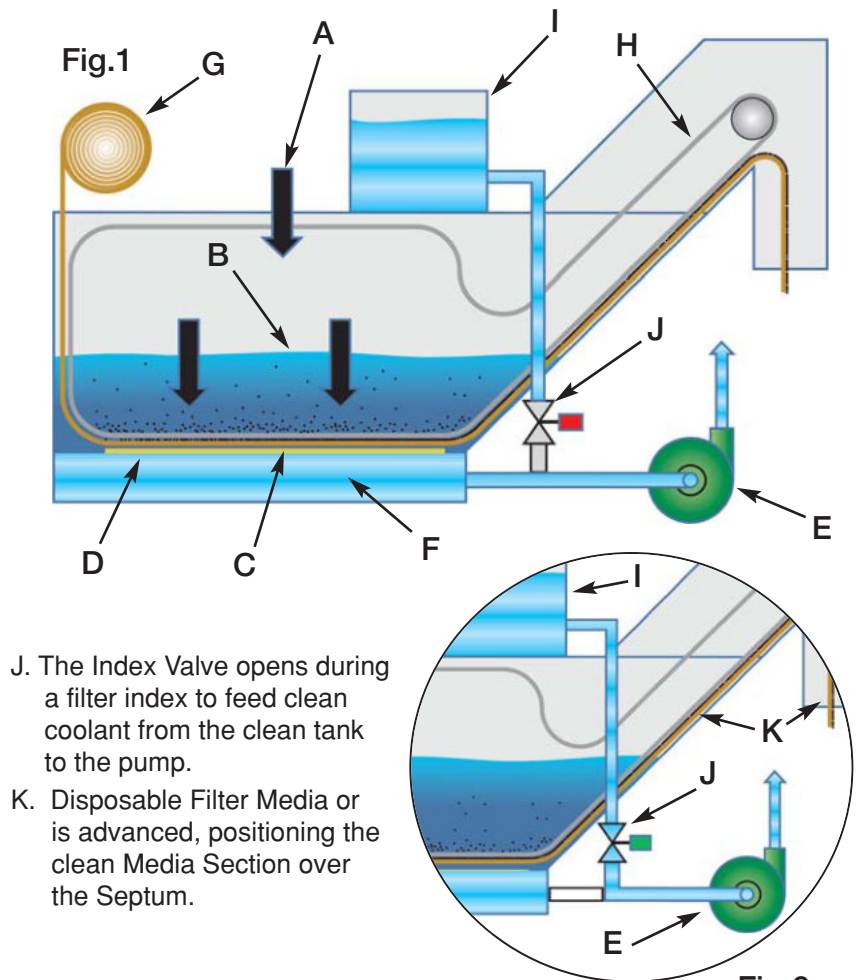


Fig.2

## Available Options

Along with many pre-engineered design features, VacuFilter V-Series options are available. Options include:

- Stainless Steel Construction
- Media Rewinder
- Automatic Water / Concentrate Make-Up and Liquid Level Detection
- Temperature Control (Chiller or Heat Exchanger Skids)
- Secondary / Sentinel Filtration (Bag Filters, Cartridge Filters, or Back Washing Strainers)
- High Pressure Coolant Supply



Plate and Frame Heat Exchanger used to control coolant temperature

VacuFilter V-Series with Media Rewinder and Disposable Media Cart



Optional Secondary Filtration Utilizing Duplex Bag Filters



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Services for Chip and Coolant Management

