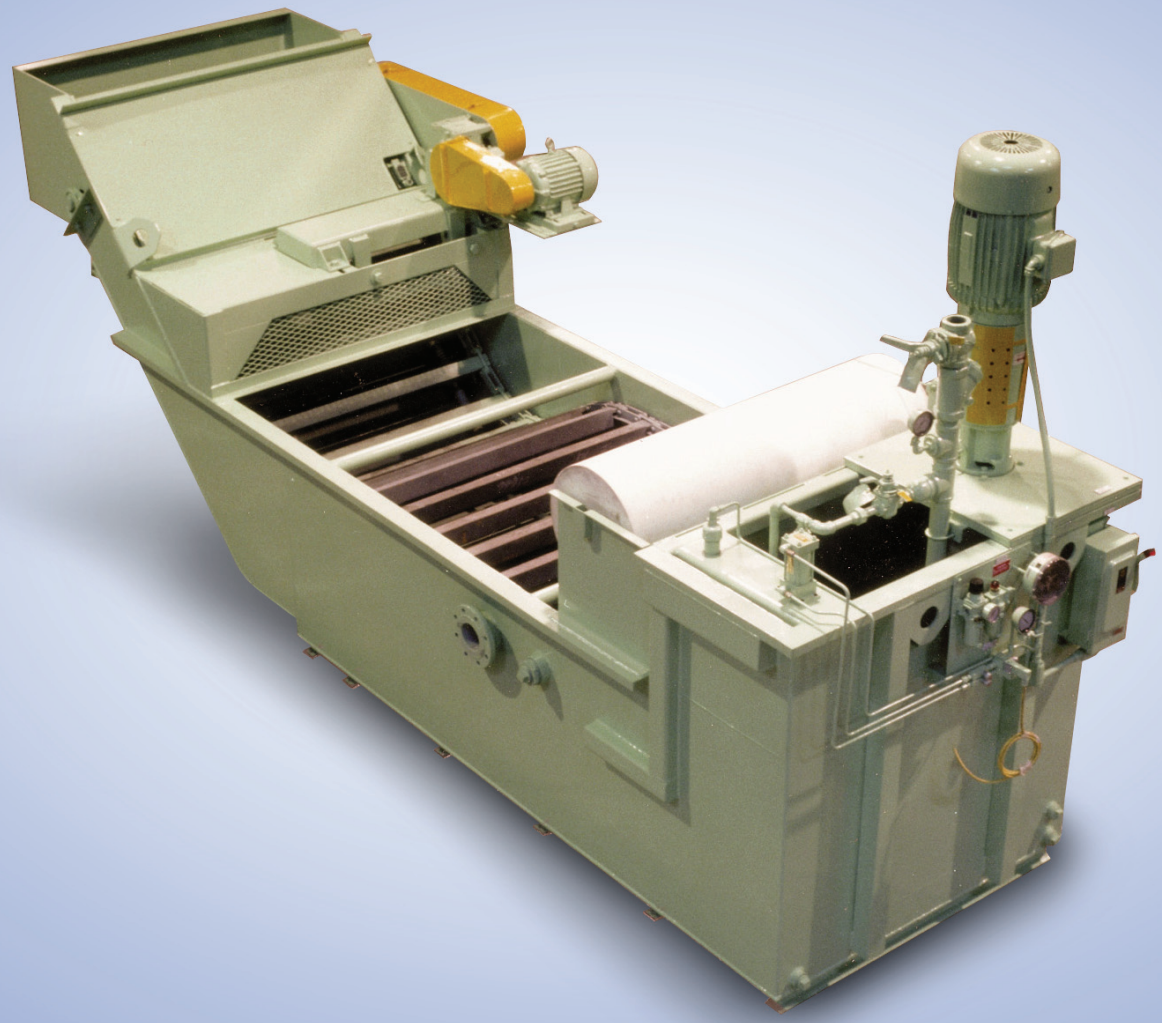
Media Vac Filter



Ecoclean MV

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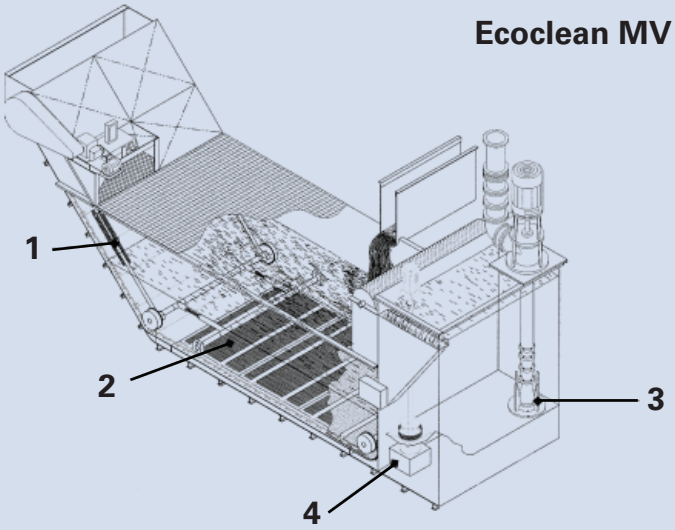
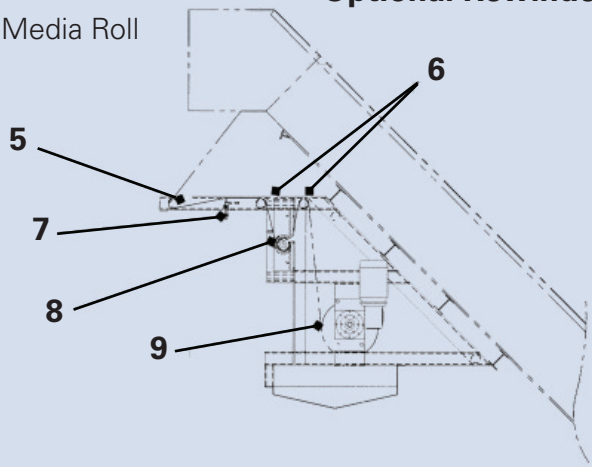
Automatic coolant filtration

Ecoclean MV



1. Patented Spring-Loaded Radius Arms
2. Lifetime Stainless Steel Screens (Optional)
3. Patented Check Valve Receptor Assembly
4. Patented Vacuum Release Valve
5. Guide Rods
6. Roller Bearing Guide Rods
7. Wiper
8. Tension Roll
9. Media Roll

Optional Rewinder



Overview

The Ecoclean Media Vac (MV) filter system delivers automatic coolant filtration for machine tooling operations. A drag conveyor is included for removing large contaminants from the spent coolant. The drag conveyor cycles continuously to pull out stringy chips, balls, and bundles that have fallen to the bottom pan of the filter tank. A patented spring-loaded radius arm prevents the drag conveyor from jamming on large obstructions as it draws them out of the tank.

Process

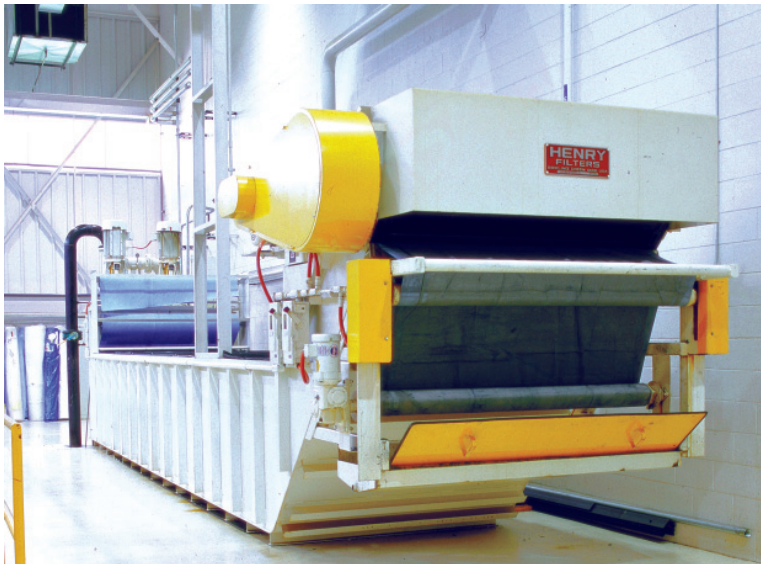
Vacuum suction is used to remove smaller contaminants from the spent coolant. A vacuum pump draws contaminated coolant onto the filter screen. Contaminants larger than the screen holes are immediately blocked from passing through the screen. As the filter continues to run, it builds up a thick residue on its surface, known as filter cake, which traps even smaller contaminants and keeps them from migrating through the filter screen. When the filter cake becomes so thick that it would clog the filter screen and impair its functionality, the filter media is indexed to expose an unclogged area of the screen or media to the vacuum suction process. This indexing operation happens automatically when the vacuum pressure gets too high or when a preset time limit has been reached.

Features and benefits

Media options

The base model MV can operate without disposable filter media, relying instead on a permanent stainless steel filter screen of perforated plate or *Wedgewire* design. Eliminating replacement media reduces environmental complications associated with landfill disposal, and makes the base MV less costly to maintain. When finer filtration is required, disposable media can be introduced to achieve improved filter clarity.

The MV can be programmed to cycle automatically, making it virtually maintenance-free to operate. It also has a self-cleaning velocity flow suction chamber.



MV automatically filters contaminated fluid.

Basic flow through an MV filter

1. Contaminated fluid enters the dirty tank and is pulled through the media and goes into the suction box.

2. The vacuum (system) pump draws clean fluid from the suction box and sends it out to the machine tool.

3. Excess fluid drawn by the pump is returned to the clean tank reservoir to keep it full and overflowing, ready to supply fluid to the process during the next filter index..

MV's vacuum pump draws contaminated coolant onto the filter screen, immediately blocking contaminants larger than the screen holes from passing through the screen. As the filter continues to run, it builds up a thick residue on its surface, known as filter cake, which traps even smaller contaminants and keeps them from migrating through the filter screen.

Media Vac Filter

Features

- Automatic Operation
- Flexible clarity performance by changing media
- Choice of perforated plate or wedgewire screens
- Excellent performance using a wide variety of disposable media
- Self-cleaning velocity flow suction chamber
- Patented Vacuum Release Valve maintains media seal
- Spring-loaded radius arm allows large objects to pass without jamming conveyors
- Easy adjustment—minimal maintenance
- Optional Rewinder available

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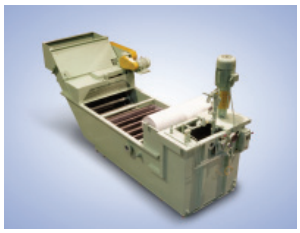
MV



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