

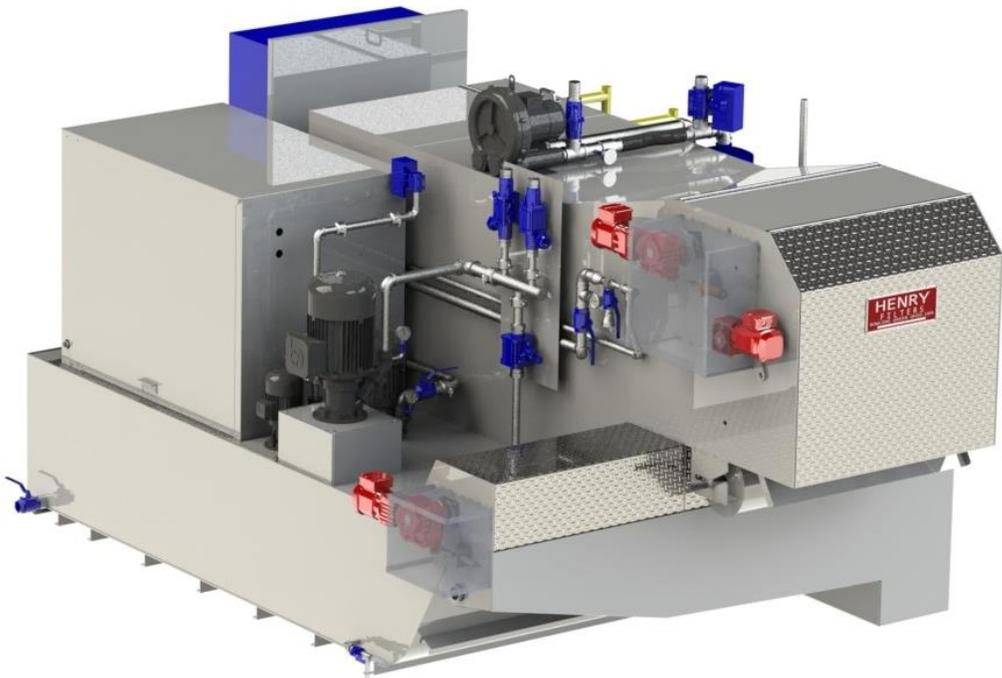
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# HENRY FILTERS **Henry**®



## **DTV F**

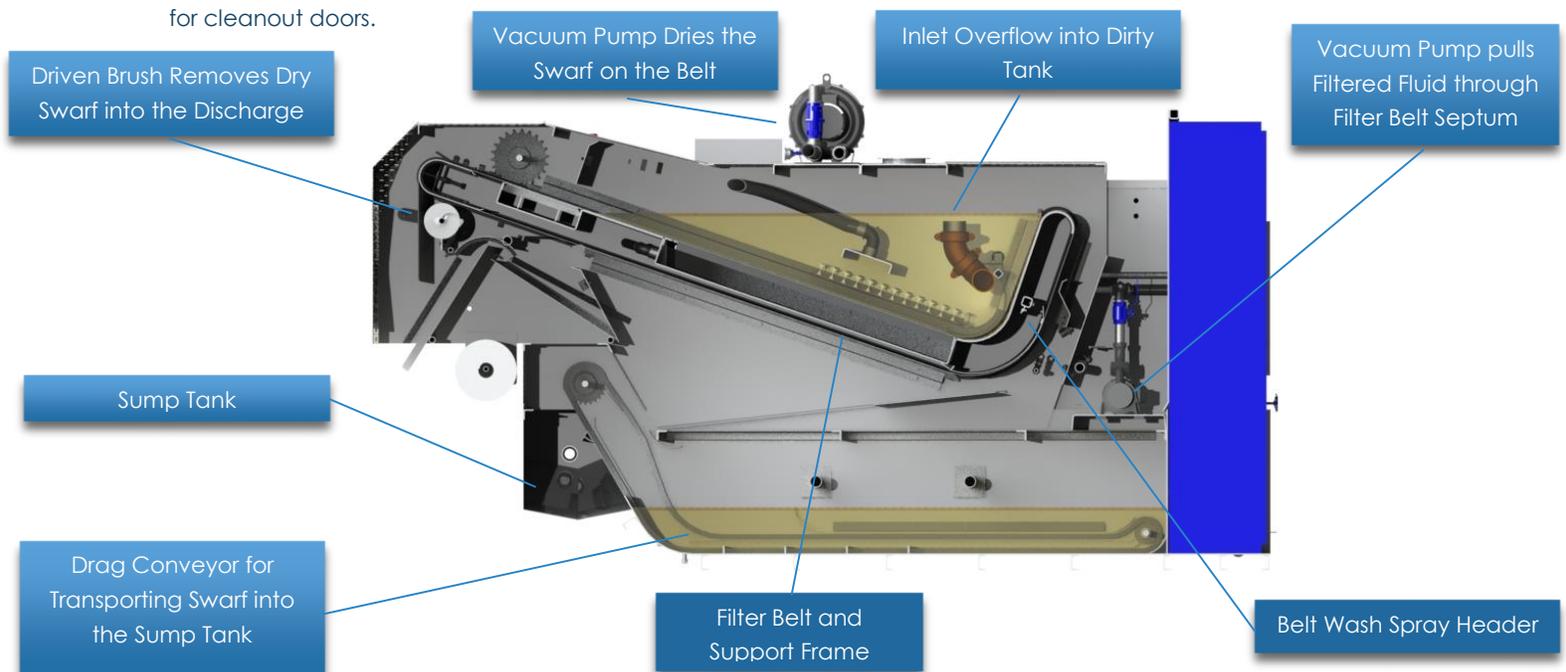
# High-Clarity Filtration

## Technology

The Henry DTVF filtration system, with SealTrack™ positive mechanical seals, provides high-clarity filtration for grinding applications. The SealTrack™ mechanical seal technology is a means of incorporating a positive side seal on the filter belt, or disposable media, throughout the path within the filter tank. The filter belt is attached to a roller/ hook chain on each side, used for transport/ indexing. This eliminates flight contact and premature wear. This proven technology stays in place during the filter cycle, thus virtually eliminating the potential of chip bypass. With this side sealing system, additional secondary backup filtration is not necessary. In addition the DTVF incorporates a vacuum drying area, that pulls excess fluid from the swarf, before it is discharged into the chip tote. Another unique feature of the DTVF is the conveyerize clean tank, eliminating the need for cleanout doors.

## Process

Contaminated fluids enter the side of the dirty return sump and are pumped to the dirty fluid reservoir, above the suspended vacuum box. This area remains full and overflowing to the lower dirty tank, where a continuously operating drag conveyor, reintroduces the fines to the dirty return sump, to be reprocessed. Fluids in the dirty reservoir are then drawn through the filter belt, or disposable media, to remove the fine particulate. The clean fluid is sent to a separate clean tank, that is also conveyerized to be used in the machining/grinding and auxiliary process, as well as in The filter index cycle. A high velocity blower is used to remove excess fluid from the swarf that has accumulated on the filter belt. The DTVF also utilizes a driven polypropylene brush, to remove dry swarf from the belt.



# DTVf Operation

## Filtration/ Index Cycle

As the filter operates, the fine particulate is drawn to the suspended vacuum box, this causes a chip cake to build on the filter belt, or disposable media. As the filter cake increases, the flow to the filter/ system pump is restricted, causing the filter to index. The index cycle can be initiated by this restriction (vacuum switch) or a timer. The filter pump then stops, allowing vacuum on the filter belt/ disposable media to be released, and a new section of clean belt/ media is introduced. As the media belt advances, a high velocity blower is activated, to remove excess fluid from the swarf. After completion, the filter pumps restarts, allowing normal operation, drawing fluid thru the filter belt/ media.



## Media Options

The DTVf filter can operate using permanent media (polyester or polypropylene) belt or with disposable media. Permanent filter belts are available down to 10 micron, based on application. Disposable media can be used on top of the permanent media for occasional removal of tramp oils or sub-micron fines. It can also be used continuously where a "carrier" belt will be used to transport the disposable media. Either belt allows for easy installation onto the DTVf's roller/ hook chain. A typical filter belt takes under 30 minutes to install.

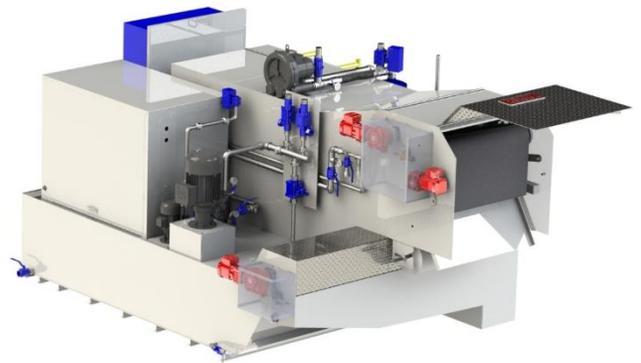
Capacity	
<b>Flowrate</b>	50 -100 GPM
<b>Filtration Area</b>	10 – 15 sf Per Unit
Application	
Filtration of water and oil based coolants - machining, grinding, lapping, honing and polishing for a variety of materials	
Media Options	
<b>Disposable Media</b>	Occasional or Continuous Use for Removal of Tramp Oils and Sub-Micron Fines
<b>Permanent Media</b>	Media Belts (Polyester or Polypropylene) in normal ratings down to 10 Micron



# Features

## System Benefits

- Permanent belt continuous filtration with the option of disposable media.
- Patented SealTrack™ positive mechanical seal on belt or paper media, virtually eliminates particulate by-pass, even while indexing
- Full-width independent drag conveyors in the dirty and clean tank for fines removal.
- Reduced risk of media cutting, tearing or wearing because conveyor does not ride on belt/paper.
- No manual fastening of belt for ease of installation/removal.
- Shorter belt length saves cost and replacement time.
- In-tank belt return minimizes belt lent and drying which can shorten belt life.
- In-tank belt wash station eliminates floor leaks/drips.
- Fines from the belt wash are returned to the drag conveyor to be reprocessed.
- No special tools required for basic belt installation.



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