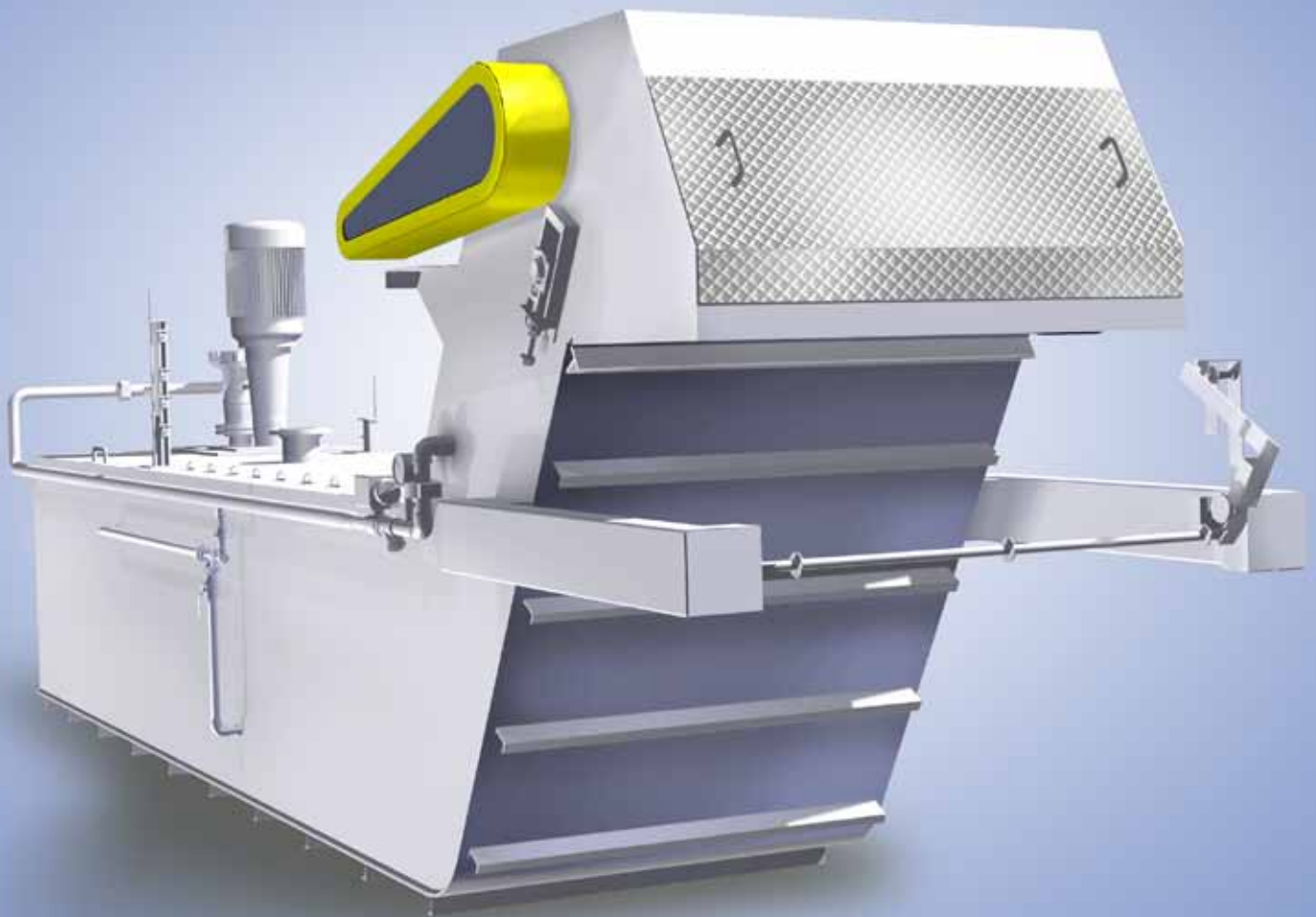


# TRVD with SealTrack™

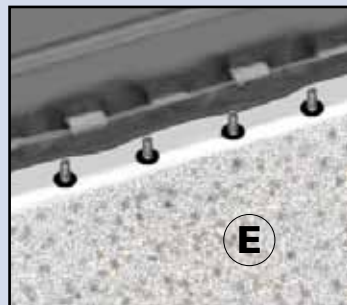
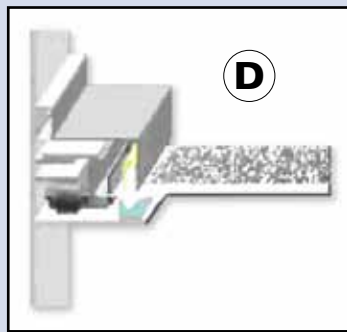
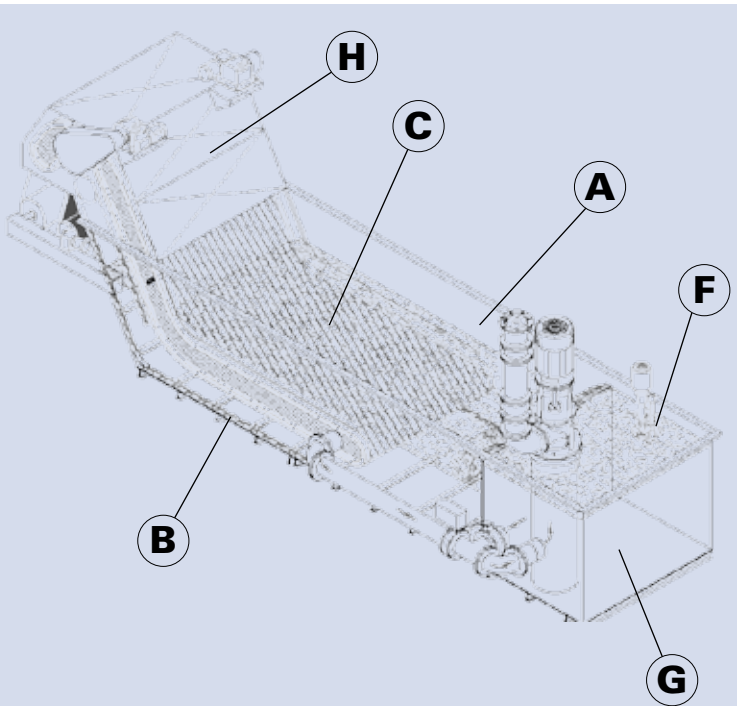


Ecoclean TRVD



Ecoclean

# High-clarity filtration



- A Filter tank**
- B Chip drag**
- C Filter belt**
- D Filter media (optional)**
- E Filter belt on patented conveyor attachment**
- F Vacuum break assembly**
- G Clean tank**
- H Washer header**

*Media is sealed even while indexing*

## Technology


The Ecoclean TRVD filtration system with SealTrack™ provides high-clarity filtration for machining and grinding operations. Patented SealTrack™ endless belt technology creates a continuous positive seal around the filter belt preventing by-pass under vacuum. The seal is maintained even during the index cycle. TRVD's continuous positive seal is proven and reliable. No back-up filtration is required because chips virtually cannot by-pass around the TRVD's side seal.

## Process

A vacuum pump draws the contaminated machine coolant or process fluid through the filter belt screen or disposable media. As the filter operates fine particles and chips collect on the filter surface, forming a filter cake. With the growing filter cake the achieved clarity increases. When the filter cake becomes too dense or restrictive to the flow of the fluid the filter belt or media is indexed. The index cycle can be initiated by measuring the vacuum differential between dirty side and clean side or via a timer. During an index cycle the system pumps draw fluid from a clean tank which is continuously refilled during the filtration cycle. This allows for uninterrupted fluid supply.

# System benefits


## Continuous filtration

For removal of settled contaminants from the tank bottom the TRVD is equipped with a drag conveyor that spans the full width of the tank. The drag conveyor operates independently from the filter belt allowing it to run continuously or cycle intermittently to pull out chips and swarf that have settled out of the process fluid. Intermittent operation of the drag conveyor causes the least amount of wear and allows for optimal drying of the sludge. The speed of the drag conveyor can be adjusted to match the chip load optimizing wear and performance of the system. 



*Low-maintenance TRVD requires no special tools for basic belt and screen installation*

## Media options

The base model TRVD can operate with a permanent filter belt or with disposable media. Using permanent media reduces environmental complications associated with landfill disposal, and is less costly to maintain. When finer filtration is required, disposable media can be introduced to improve filter clarity and to remove excessive tramp oil from the machine coolant. The TRVD unit is designed to cycle automatically, virtually maintenance free. The endless belt is easy to install onto the TRVD's special tracking-drive mechanism. A typical installation of a filter unit belt takes under 30 minutes. 

Capacity	
Flowrate	350 – 2000 GPM
Filtration area	24 – 136 SF per unit

Applications	
Filtration of water and oil based coolants – machining, grinding, lapping, honing, polishing	
Stamping operations	
Phosphate system filters	
Parts washer filters	
Waste Water	

Media Options	
Disposable media	For removal of small fines as found in rough machining, grinding, honing, polishing
Permanent media	For removal of larger fines, reduces costs associated with replacement and disposal of disposable medias

# TRVD with SealTrack™

- Endless belt continuous filtration with the option of disposable media
- Patented positive mechanical seal on belt or paper media virtually eliminates particle by-pass even while indexing
- Full-width independent drag conveyor handles heavy chip loads
- No 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 length and drying which can shorten belt life
- In-tank belt wash station eliminates floor leaks/drips
- Quiescent belt wash area is ideal for removal of fines
- No special tools required for basic belt and screen installation

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## TRVD



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