

**INSTALLATION GUIDE**

# **CYCLOFLOW COOLANT FILTRATION SYSTEM**



# CYCLOFLOW

The CycloFlow is a robust, general purpose filtration system for machine tool coolants and other fluids. The key feature of this system is its cyclonic filtration unit. The cyclonic filter unit uses no moving parts, no filter media and is up to 98% efficient at 10 micron. This system is perfect for removing a variety of fines from cutting fluids. There is an onboard pump that draws from the coolant tank, pumps through the cyclonic filter unit, and then through the large industrial grade bag filter. The system can be configured to be permanently installed on one machine, or it can be ordered with the 115v power option to make it a mobile unit. The compact size and heavy duty filtration performance make this a great unit for many different applications.

**Your Hennig system undergoes 100% end-of-line test and inspection to verify proper function, prior to packing and shipment.**

For questions regarding your system, or assistance in new applications, contact a customer service representative:

**815-636-9900 or [info@hennig-inc.com](mailto:info@hennig-inc.com)**

## TABLE OF CONTENTS

<b>System Overview .....</b>	<b>3</b>
<b>Installation .....</b>	<b>4</b>
Auto Dump Valve (optional) ....	5
<b>Operation .....</b>	<b>6</b>
<b>Maintenance</b>	
Filter Cleaning .....	7
Replacing Filter .....	8
<b>Spare Parts .....</b>	<b>9</b>



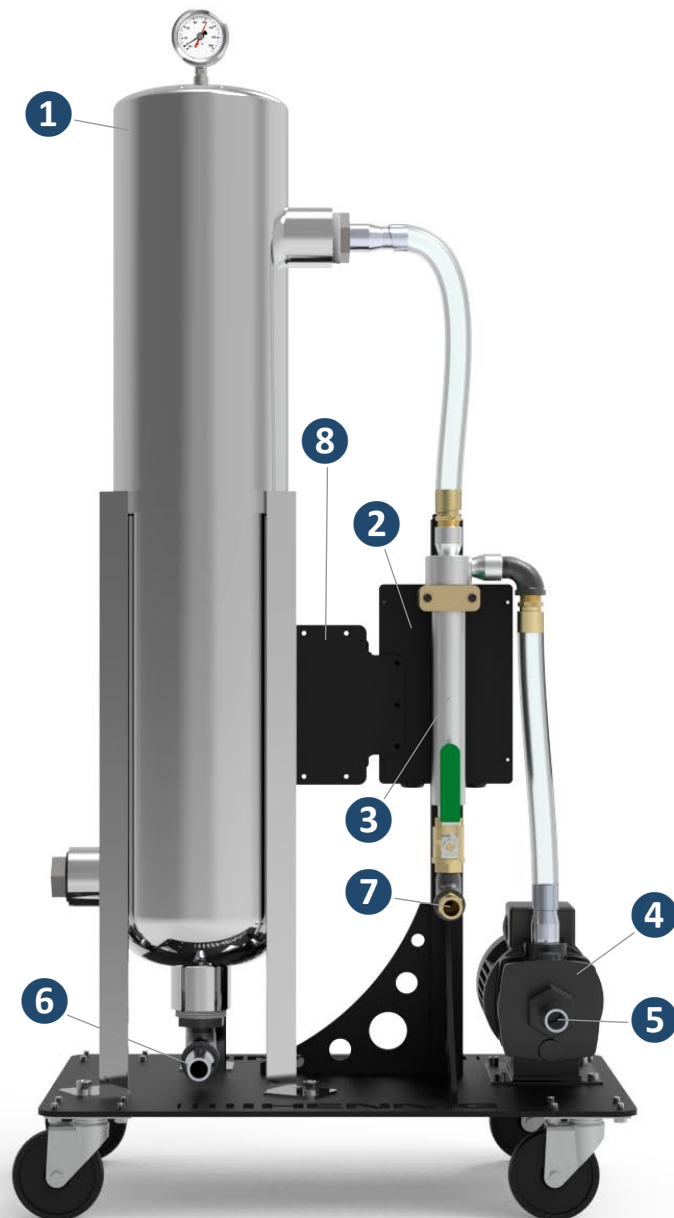
# SYSTEM OVERVIEW

Unit Specifications	
<b>Voltage</b>	1 Phase, 115 Volts, 50/60 Hertz
<b>Filter</b>	Trade (Size 2) 10 micron bag, cyclonic pre-filter
<b>Inlet</b>	Mounted suction hose w/ foot valve
<b>Outlet</b>	1" hose return

## FEATURES

- 18 GPM (68 l/min)
- Cyclonic filtration
- Size #2 bag filter housing
- VFD control
- 115v, 220v or 480v available
- Automatic dump valve (optional)
- Pressure gauge
- Transfer pump built in
- Caster wheels
- Electrical plug interface
- 2 year warranty

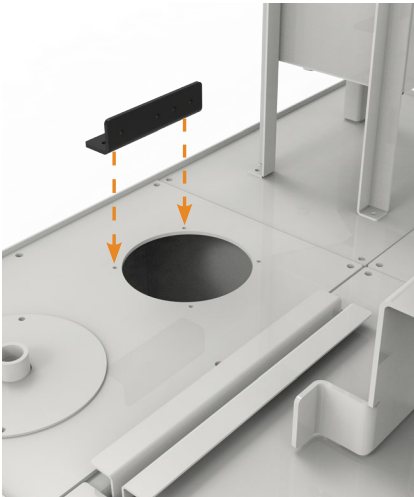
- ❶ Filter housing
- ❷ VFD
- ❸ Cyclonic filter
- ❹ Pump
- ❺ Inlet hose
- ❻ Outlet hose
- ❼ Filter drain valve
- ❽ Auto dump valve (optional)



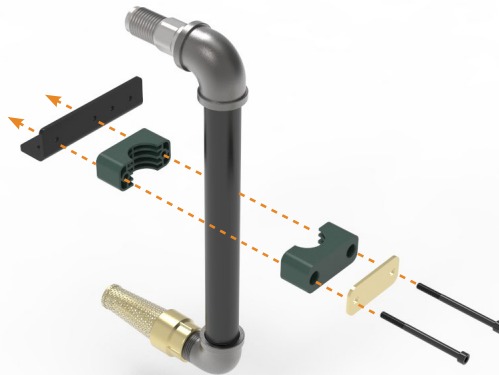
# INSTALLATION

## 1. Install the pickup mount and foot valve

Find a suitable location on the coolant tank to pull dirty coolant. Secure the pickup mount to the tank. Then secure the foot valve pipe to the mount.



*Pickup mount*



*Foot valve assembly*



*Foot valve installed*

## 2. Connect inlet hose

Attach the inlet hose from the CycloFlow pump (1) to the foot valve mounted on the tank. Secure with supplied worm clamps.

## 3. Connect return hose

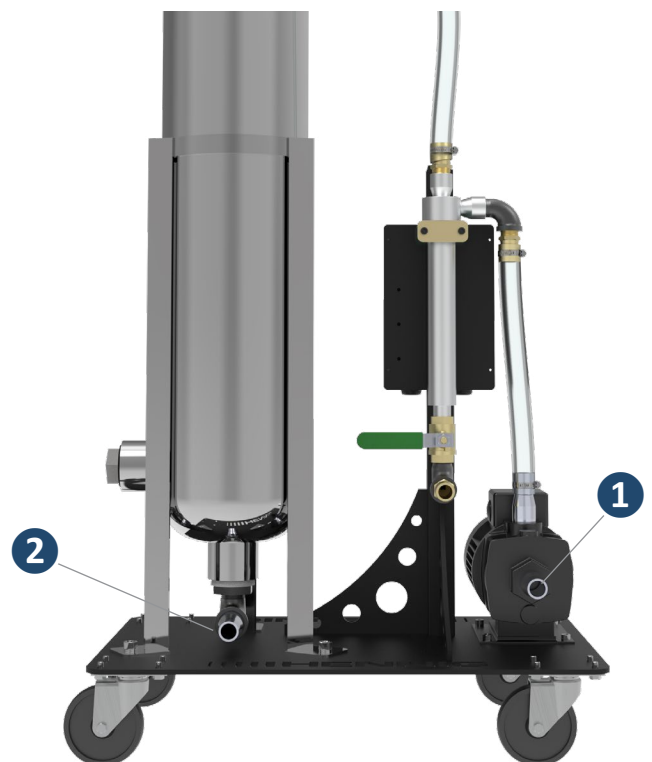
Attach the return hose to the outlet side (2) of the CycloFlow. Place other end of the hose into the coolant tank opposite side of the inlet hose.

## 3. Prime the system

Remove inlet hose at CycloFlow and fill line with coolant. Reattach hose to inlet side of Cycloflow.

## 4. Plug in the system

Pretty straight-forward here. Simply plug in the system and you're done. See next page for operation of your newly installed CycloFlow filtration system.





# INSTALLATION (OPTIONAL AUTO DUMP VALVE)

This option adds a solenoid dump valve and timer to the CycloFlow system to automatically remove contaminants from the cyclonic filter to ensure best possible performance.

The valve will open to dump contaminants every 100 minutes. Have a bucket or hose connected to outlet barb to catch contaminants. **Container will need to be emptied daily if the system is left in operation.**

## 1. Remove ball valve

Remove ball valve (❶) and separate elbow/hose barb (❷) from ball valve.

## 2. Install elbow and hose barb

Install the elbow/hose barb on the outlet side of the solenoid valve (❸).

## 3. Install solenoid valve

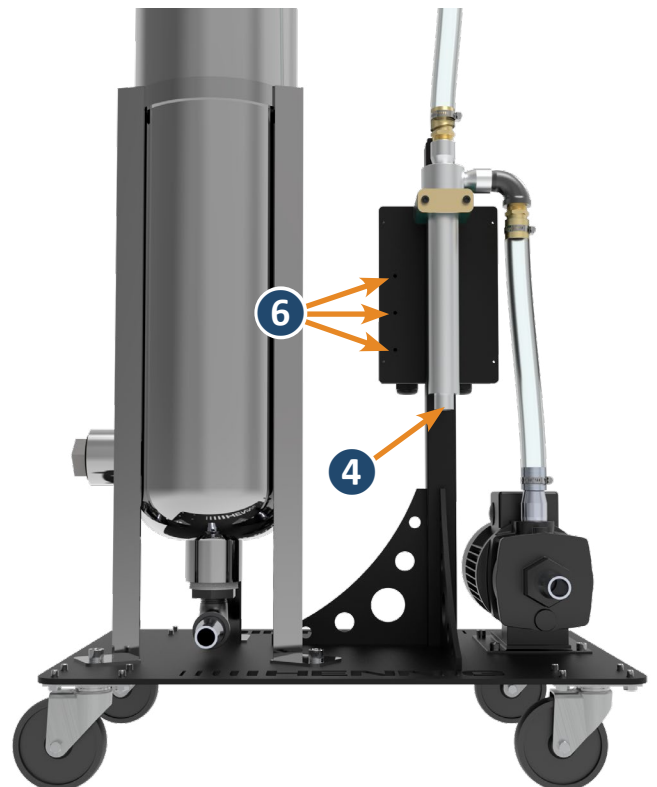
Install solenoid valve on bottom of cyclonic filter (❹).

## 4. Mount control box

Using the supplied M6x1.0 bolts (x3), mount the control box (❺) to the CycloFlow (❻).

## 5. Connect wires

Using the diagram that was supplied with the auto dump valve, connect the auto dump valve wires to the VFD.



# OPERATION

**IMPORTANT!** Before operating your CycloFlow, ensure all hoses are secured and the inlet hose is primed with coolant.

## 1. Running the system

Press the green “run” button on the VFD (mounted on the post). Ensure coolant is being pumped through system and is returning to the coolant tank.

## 2. Stopping the system

Press red stop button to stop the system to discontinue use or change bag filter.

*Note: Routinely check pressure gauge on top of filter canister. If pressure is building in the filter housing, the bag is dirty and needs to be changed. Refer to routine maintenance in next section for bag changes.*

# ROUTINE MAINTENANCE

**IMPORTANT!** The following routine maintenance should be performed to prolong the life of this system and ensure proper operation.

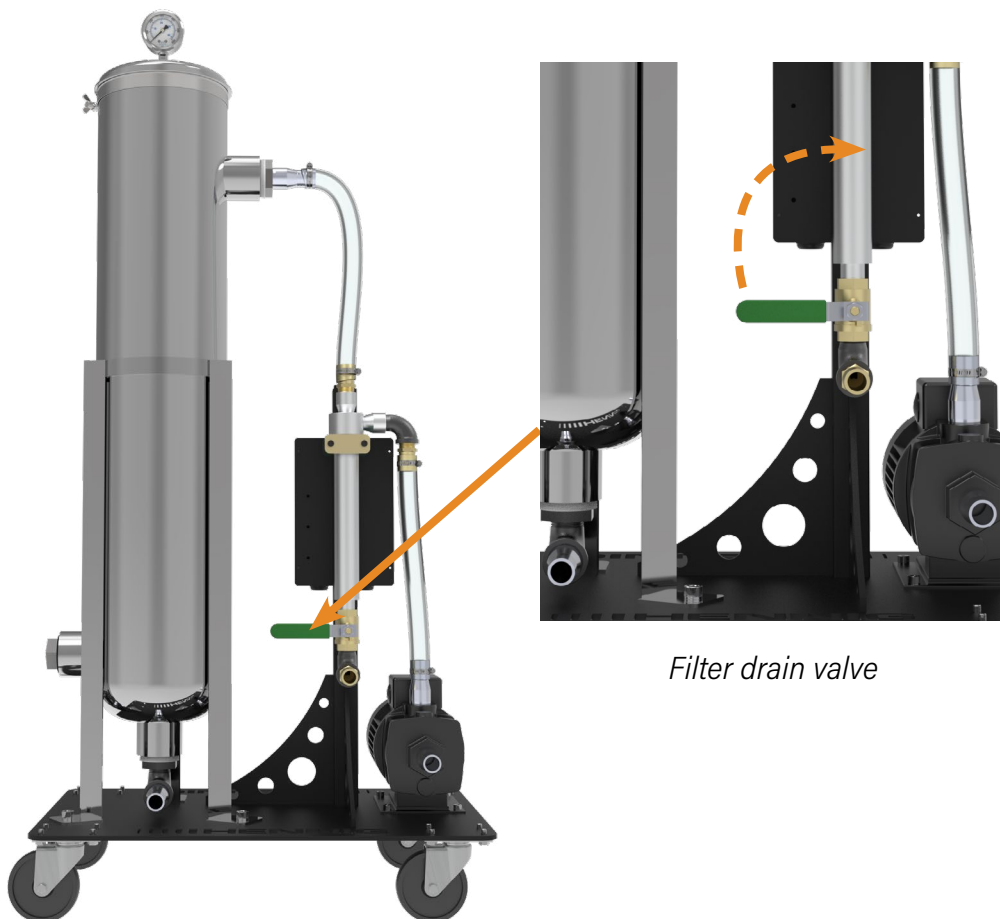
Routine Maintenance Intervals	
<b>Cyclonic filter cleaning</b>	At least once per day (depending on application)
<b>Bag filter change</b>	At least every 3 months (depending on application)

*Pressure gauge will rise as bag filter gets dirty, indicating that it's ready for cleaning or replacement.*

## Cyclonic filter cleaning

*If your CycloFlow system does NOT have the auto dump valve option, follow the steps below for cleaning the filter.*

1. Place bucket under valve at bottom of cyclonic filter.
2. While system is running, slowly open valve to purge filter of captured contaminates. Once the filter is completely drained close valve.



*Filter drain valve*

# ROUTINE MAINTENANCE

## Bag filter change

### 1. Power down the system.

Turn off the system and unplug from power.

### 2. Remove the filter housing lid.

Loosen the clamp on top of the filter housing and remove the lid.

### 3. Remove the dirty filter.

Remove the filter pressure clamp inside the canister and pull out the dirty filter (turn counter-clockwise to loosen).

### 4. Install new filter.

Place the new filter into the canister and reinstall the pressure clamp (turn clockwise to tighten).

### 5. Reattach filter housing lid.

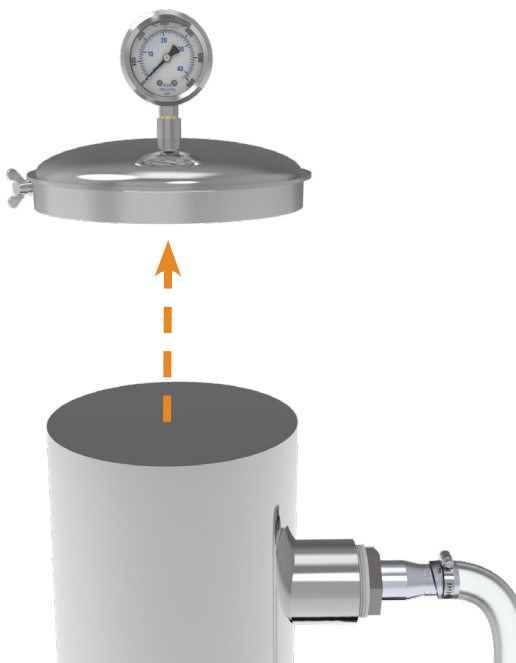
Place lid back onto filter housing and tighten the ring clamp.

### 6. Ensure feed pump is primed.

The feed pump should remain primed during filter change, but it's best to make sure. If prime is lost, reprime the system.

### 7. Connect power.

Plug the system in and turn it on to resume use.



*Filter housing lid*



*Loosening the filter pressure clamp*



# SPARE PARTS

Part #	Description
880.18024.0013	VFD control
885481	Cyclonic filter
885517	Filter bag
881416	Feed pump
Contact Hennig	Auto dump valve (optional)

## NOTES

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## NOTES



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**ISO 9001:2015**

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*CycloFlow\_UM\_0925*