



**PERFECT  
FILTRATION**  
S Y S T E M S

## ULTIMATE HYDRAULIC BY-PASS KIDNEY LOOP FILTRATION SYSTEMS

Everyone knows the #1 cause of hydraulic system component wear and failure is due to water and solid particles smaller than 10 micron in size. Old high pressure pleated paper filters will not provide the protection your expensive tight tolerance components require.

**THE ULTIMATE SYSTEMS WILL REMOVE THESE HARMFUL CONTAMINANTS!**



Model U-1000H-PRV with floor stand. The system keeps the hydraulic fluid ultra clean and water free. This customer has not changed hydraulic fluid in over five years and has not had any failures or downtime related to dirty fluid.

### How does the by-pass system work?

The by-pass kidney loop filtration systems are designed to filter the fluid at low volume (.25 gpm -2.0gpm) and low pressure (10 psi -70psi) through a dense cellulose 3-micron depth-type filter element. We get the pressure from an existing pressure source; typically a cooler line, pressurized fluid return line, or a 3,000 psi maximum main pressure line. We use special valves to control the fluid pressure and fluid volume through the filter element. After the fluid is filtered, it is returned back into the tank ultra clean and water free.

### What does the 3-micron system remove?

The systems take out free and emulsified water and remove solid particles. The filters use both absorption and direct inception to trap and remove the water and solids. Depth-type filters are known to be the most efficient filtration method available today.

### Why do I need better filtration?

Because your current 5 to 30 micron pleated paper filters are not efficient enough to clean the fluid effectively. They are only catching the large solid particles and have virtually no protection against water.

### PFS has the best warranty in the industry:

\*10-year warranty on filter housings. All housings have a heavy duty bolt down cover, black powder coating with stainless steel internals and pressure gauge to help monitor filter life.

\*\*Lifetime warranty on cellulose depth-type filter elements.

### PFS GUARANTEE:

**We guarantee after 200 hours of filtration the hydraulic oil in the system will be cleaner than brand new hydraulic oil.**

**FACT:** Hydraulic oil will last for many years without replacing if you are able to keep the water out of the oil and remove the small solid particles that cause the oil to break down and lose its lubricating qualities.

### PRODUCT FEATURES & BENEFITS:

- \* Removes 99.9% of the free and emulsified water
- \* Removes the majority of the solids
- \* 3-micron depth-type filter element
- \* Long depth-type filter life
- \* Hydraulic fluid will last for years
- \* Longer OEM filters life
- \* Quick return on your investment
- \* Greatly reduces component wear
- \* Longer valve, pump, and machine life
- \* No more phantom system problems
- \* Higher system performance
- \* Less downtime and more production
- \* Cooler running systems
- \* Filter has large water and solid holding capacity
- \* Easy installation and filter servicing
- \* Cleaner than new fluid 100% of the time
- \* Recommended by some OEM's
- \* Installed on thousands of systems
- \* Lower maintenance & operating costs
- \* Meets OEM cleanliness standards
- \* Continuous filtration during operation
- \* Will not affect OEM warranty



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## ULTIMATE HYDRAULIC BY-PASS KIDNEY LOOP FILTRATION SYSTEMS



Model U-500H



Model U-1000H



Hydraulic, Diesel fuel, and Engine oil filtration



U-1000H



U-1000H

MODEL	DIMENSIONS D X W X L	WEIGHT	HYDRAULIC TANK SIZE	FILTER#	MICRON RATING	FILTER PERFORMANCE	WATER CAPACITY	SOLID CAPACITY
U-150H	8" X 8" X 14"	28Lbs	10-40 gallons	7132	3-Micron	B3>(c)=1000	1 Quart	2-3Lbs
U-500H	10" X 12" X 14"	36Lbs	40-100 gallons	7332	3-Micron	B3>(c)=1000	½ gallon	4-5Lbs
U-1000H	10" X 12" X 24"	55Lbs	100-300 gallons	7534	3-Micron	B3>(c)=1000	1 gallon	8-10Lbs
U2-1000H	10" X 24" X 24"	110Lbs	300-600 gallons	(2)- 7534	3-Micron	B3>(c)=1000	1 gallon each	8-10Lbs

\*High pressure (50psi-3,000psi pressure source) PRV kits include: Housing, filter, mounting bracket, pressure gauge, 18 foot hose, hose ends, steel shut-off valve, flow control valve, relief valve with by-pass hose, and JIC fittings.

\*\*Low pressure (15psi-150psi pressure source). LP kits include: Housing, filter, mounting bracket, pressure gauge, 18 foot hose, hose ends, brass shut-off valve, and JIC fittings.



**PFS depth-type filter elements will protect your pumps, actuators, cylinders, servo valves, proportional valves, directional valves, regulators and other tight tolerance components against water and wear.**

**Start using state of the art filter technology today!**

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