

Filters and

BY-PASS FILTRATION SYSTEM

systems

KLEENOIL

KLEENOIL FILTRATION CANADA LTD.

2-850 Boundary Road
South Glengarry (Cornwall), ON. K6H 7P6

Tel: 613-933-9090 **Fax:** 866-552-5333

EMAIL: info@kleenoil.ca **WEBSITE:** www.kleenoil.ca

KLEENOIL OFF-LINE "STANDARD with Micromag Filter" MICRO-FILTRATION CART



The Micron Filtration System is a multi-purpose fluid cleaning and transfer rig, which is available in a variety of styles and sizes.

The system can be used to clean most mineral oils such as hydraulic, gear, and transmission oils, diesel-type fuels, and many soluble oils and fluids.

In its static form, it can be permanently connected to large fluid reservoirs where machines and engines are in constant use.

As a mobile trolley, it has a wide variety of applications, such as fuel tank purging for trucks, boats, oil, fuel transfer, and rotational cleaning of factory machinery.

The Micron Filtration System is a free-standing off-line fluid cleaning rig. Its robust electric pump circulates oil from machine reservoirs through 1, 2, or 4 Kleenoil cartridges.

Fluid cleanliness, particularly in hydraulic systems is extremely important. It is widely recognized that silt particles (<5 microns in size) are primarily cause of premature machine failure through abrasive wear of component surfaces. In addition, water is a major cause of system damage through accelerated oxidation, corrosion, and fluid breakdown.

The KLEENOIL FILTER absorbs all free and emulsified water and gradually removes contaminant particles down to less than ISO 14/9 OR NAS 1638 class 6 equivalent.

It therefore extends oil life through the removal of the oxidation catalysts and at the same time extends component life by removing the silt particles in the 3 to 6-micron range. The system can also be used to clean and transfer unused oil (ISO 18/16) prior to use directly through a 5-micron filter. Filtering the new oil with the Kleenoil system will in most cases reduce the particle count to 14/11. The filtration units can be supplied in a variety of sizes or styles to suit your individual requirement.



Kleenoil Filter Cartridge

Level of filtration applying to all units – BS 5540/4 ISO 14/9 and equiv. NAS 1638 class 6. Water removal to <0.05% up to capacity of cartridges which is 0.26 gall. (1.2 litre) each.

Flow Rate

It is impossible to state an exact flow rate because it is dependent upon many factors such as viscosity, temperature, and a degree of contamination of fluid, and also pump pressure and degree of contamination of cartridges. As an approximate guide, the flow of 32 sec. Hydraulic oil at room temperature through new KLEENOIL cartridges will be:

MFU-1 Single Filter	300-400 litre (80-100 gallons) per hour (AW-32)
MFU-2 Twin Filter	400-600 litre (100-158 gallons) per hour (AW-32)
	700 litre (185 gallons) per hour (Diesel)
MFU-4 Four Filter	1000-1200 litre (260-315 gallons) per hour (AW-32)
	1300 litre (340 gallons) per hour (Diesel)

If master flows are required, they can be achieved by specifying alternative pumps. Consult your Kleenoil distributor for advice on the matter.

Operation

The system is operated by an isolator switch with an “on/off” lever. The switch can be locked in the “off” position to prevent unauthorized if required. A starter and red/green indicator lights can be fitted if required.

Changing the Cartridges

The cartridges change frequency will depend on the amount and type of contaminants in the fluid being cleaned. Under normal conditions, the cartridges should be changed every 250 hours, which relates to about one month of continuous operation.

To affect the cartridges change, switch off the motor, release the inlet ‘quick release’ coupling and then run the motor for a few seconds to purge most of the oil in the filter with the outlet hose still connected, wait for a few minutes for pressure to subside, and then release the lid retaining the bolt. To avoid spillage, the polythene bag from the new cartridge should be placed over the filter body, and then the cartridge, and tighten the lid securing bolt to 18 ft-lbs. Reconnect the ‘quick release’ coupling, and the unit is ready for use.

Transfer Pump Facility

The system can be used as a transfer pump by simply removing the ‘quick release’ coupling from the filter outlet, and fitting it to the pump outlet, thereby by-passing the filter.

Guarantee

All Micro Filtration systems carry a twelve-month warranty on all parts.



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