

PURELUBE FILTER SYSTEMS

Liquidynamics PureLube Filter Systems offer excellent solutions for fluid filtering applications by providing a wide selection of filter carts, mini carts, portable hand carry systems and custom designed systems. These filter carts are designed to handle a broad range of viscosities and flow rates in order to efficiently and economically filter small, medium and large capacity gear boxes, reservoirs and storage tanks.

For high viscosity applications, Liquidynamics uses “Depth” type filters that provide efficient particulate removal via long flow paths which, achieves low micron filtration in the 1 to 3 micron range. These filters are also efficient for removing water at up to 1 gallon per element. Choose your filter element below to best fit your application.

High Viscosity Filter Cart:

P/N **33277**

For absolute filtration of high viscosity fluids up to and including ISO 680, this is the solution. Two Depth Filters plumbed in parallel provide a large surface area which allows very slow movement of fluid for effective filtration of particles in the 1 to 3 micron range along with water removal of up to 1 gallon of water per element.

The heavy gauge 1” steel tubing cart frame is powder coated for strength and durability, 10” pneumatic wheels provide easy control and movement. Standard equipment includes 5 GPM internal gear pump with 2 HP, 115 VAC motor, 1” x 10’ suction hose with 4’ probe, 1” x 15’ discharge hose with probe, cam-lock hose connections, filter pressure gauges and probe/discharge nozzle retainer/drip catch system.

High Viscosity Filter Cart w/PowerMaster Control:

P/N **33277-P**

Same as P/N 33277 but includes PowerMaster option. See page 90 for additional information on PowerMaster features and benefits.



REFERENCE INFORMATION:

Relative Sizes of Particles

Substance	Micron	Inches
Grain of table salt	100	.0039
Human hair	70	.0027
Lower limit visibility	40	.0016
Milled flour	25	.0010
Red blood cells	8	.0003
Bacteria	2	.0001

Replacement Filter Elements: For use with P/N 33277 and 33277-P High Viscosity Filter Carts.

P/N **71460-2**

Two element filter for use with light weight oils, ISO 10 through 32 such as hydraulic fluid, cutting oils, turbine oils, etc.

P/N **71460-4**

Four element filter for use with medium weight oils, ISO 32 through 68, such as mineral and synthetic hydraulic, dielectric, turbine oil, lubricating oils and cutting oils.

P/N **71460-6**

Six element filter for use with medium weight lube oils, ISO 68 through 150.

P/N **71460-8**

Eight element filter for use with heavy weight lube oils, ISO 150 through 680.

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To ensure efficient filtering, Liquidynamics uses 5 layer, high performance filter elements, which have exceptionally high contaminant holding capacities while also achieving Beta ratios exceeding 200. This ensures reaching your target ISO fluid cleanliness levels while maintaining high fluid quality and superior system longevity. These elements are available in cartridge and spin-on styles for both particulate and water removal applications.

20 GPM Absolute Filtration Cart:

P/N **33276**

Practical, versatile and reliable are some of the ways to describe this Filter/Transfer Cart. Versatile plumbing allows this cart to be used for bulk transfer at up to 20 GPM, as well as filtration, by simply opening and closing a couple of valves. With its well designed features and sturdy construction, this cart is eminently practical. Engineered reliability is evident from the heavy gauge 1" steel tubing construction, powder coated for durability. Easy maneuverability is assured with 10" pneumatic tires. Unit is supplied with unique probe/discharge nozzle retainer/drip catch system.

The cart is equipped with a 10' suction hose, 20' discharge hose and 4' suction and discharge probe. Hose and probes are fitted with cam-lock fittings to allow easy connection/disconnection. The probes are easily stored in the handy drip receptacles while the hoses can be coiled on the provided retainers. Optional fluid sample ports may be added before and/or after the filter as desired. Pressure gauges are provided after each filter to allow monitoring of filter condition.

20 GPM Absolute Filtration Cart w/PowerMaster Control:

P/N **33276-P**

Same as P/N 33276 but includes PowerMaster option. See below for features and benefits of the PowerMaster control option.

P/N **33276L-P**

Same as P/N 33276 but includes PowerMaster option and parallel filters. See below for features and benefits of the PowerMaster control option.



P/N 33276 shown w/ series filtration



PowerMaster Control Option: (patent pending)

The "PowerMaster" (patent pending) is a revolutionary device that prevents nuisance tripping of circuit breakers which commonly occurs when transferring or filtering viscous fluids. This amazing device automatically senses available circuit current, user selectable for either 15 or 20 amp circuits, and adjusts pump speed to maintain current draw below circuit breaker limits. This eliminates tripping of circuit breakers, speeds up filtering and ensures efficient filtering.

Additional benefits of this technology allows the user to manually adjust flow rate to "best" filter specifications depending on fluid viscosity, required ISO cleanliness level and quantity of fluid to be filtered. You can also extend filter element life by adjusting flow rate to maintain optimum filtration performance. Whereas, fixed flow rate systems obligate you to change filters when the maximum differential pressure is exceeded.



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Hand Carry Absolute Filter Module w/Dual Inline Filters:

P/N **33273-2**

This small, compact hand carry module is ideal for use with light to medium viscosities such as hydraulic fluids and engine oils. Applications include kidney loop systems, 55 gallon drums and other portable or temporary applications. This model uses two 11" spin-on filter elements, your choice of 3, 5, 10 or 20 micron elements, plumbed in series with a 7 GPM pump. Pump inlet is protected with a 20 mesh 'Y' strainer and has 3/4" NPTF suction/discharge. Pump discharge/bypass pressure is adjustable to 80 PSI, 1.5 HP Motor, 115 VAC, 13 amp.



P/N 33273-2 shown

Hand Carry Absolute Filter Module w/Parallel Filters:

P/N **33273L-2**

Same as P/N 33273-2 except filters are plumbed in parallel for increased contaminant holding capacity and/or higher viscosity capability.

Hand Carry Absolute Filter Module w/Single Filter:

P/N **33273-1**

Same as P/N 33273-2 except that only one 11" canister filter is used. This provides a more economical initial investment and is ideal for situations where contaminant loads are not expected to be very high.

Replacement Filter Media:

For use with P/N 33276, 33276-P, 33273-1, 33273-2 and 33273L-2 Filter Systems.

These high efficiency filter canisters are designed to meet a full range of filtration requirements. They use an exceptionally durable and highly efficient proprietary 5 layer synthetic media that assures trouble free operation for all hydraulic and lubrication oil applications. With Beta ratios exceeding 200, pressure rating of 200 PSI and exceptionally high dirt holding capacities, these elements are the best choice for achieving target fluid cleanliness levels while maintaining high fluid quality.

P/N **71246-03**

For target fluid cleanliness Level of 16/14/12 or better

P/N **71246-05**

For target fluid cleanliness Level of 18/16/14 or better

P/N **71246-10**

For target fluid cleanliness Level of 20/18/15 or better

P/N **71246-20**

For target fluid cleanliness Level of 22/19/16 or better

P/N **71246-10W**

For water absorption and cleanliness Level of 20/18/15



Oil Filter Cart, With Nominal Filtration

P/N **33275**

The ideal tool for circulating and filtering oil in existing tanks. This portable cart uses a 115 VAC pump rated at 7 GPM and includes a 6' suction hose with inlet screen. The 6' discharge hose includes a 3' stinger. An included pressure gauge allows easy determination of when the 10 micron nominal filter is dirty. See page 94 and 95 for replacement filter cartridges.