

This manual contains important warnings and information. READ AND KEEP FOR REFERENCE.

LIQUIDYNAMICS

Filter Cart

Instruction & Parts Manual



⚠ WARNING

To avoid personal injury or death, do not use this pump/motor with flammable, explosive or corrosive products such as gasoline, diesel fuel or chemicals.

WARNING

This symbol indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

Introduction:

The Liquidynamics oil filter cart is used to circulate and filter fluids such as engine oil, gear oil, hydraulic fluid or transmission fluid in an existing tank. This may be necessary due to sedimentation, contamination or water accumulation.

General:

The pump used in this filter cart is a self priming vane pump equipped with an adjustable by-pass valve. Bypass pressure has been factory adjusted to achieve maximum flow rates. It is not necessary to make any further adjustments.

Note:

Refer to the included "Use and Maintenance Manual" for the Viscomat pump for detailed pump/motor operating specifications and parts breakdown.

CAUTION

This symbol indicates a potentially hazardous situation which, if not avoided, may result in injury or damage to equipment.

CAUTION

Do not run pump dry for extended periods. It may be necessary to prime pump by pouring a small amount of fluid to be pumped into the suction hose.

WARNING

To avoid personal injury or death, do not use this pump / motor with flammable, explosive or corrosive products such as gasoline, diesel fuel or chemicals.

Technical Data:

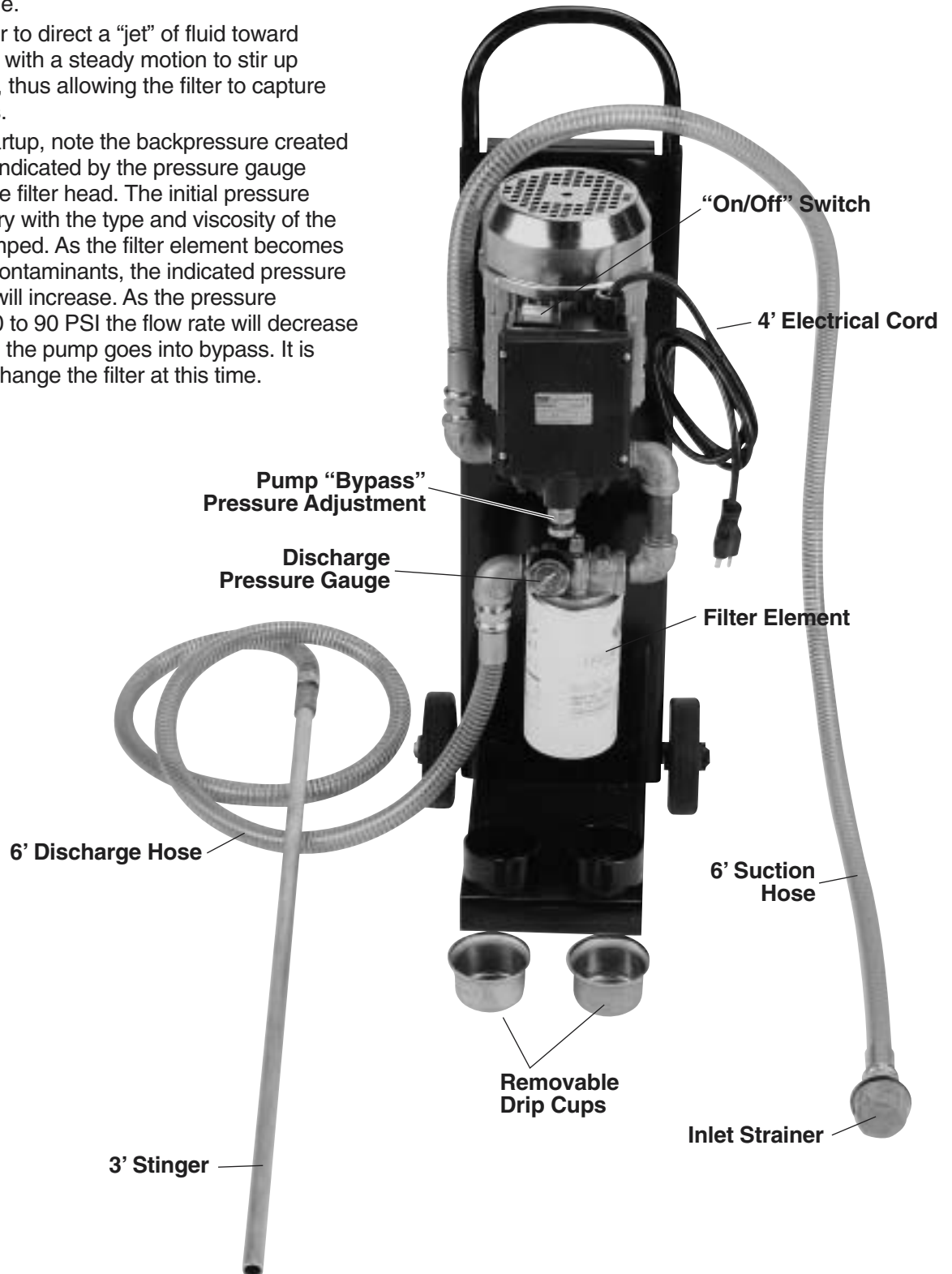
Motor:	110 VAC, 13.5 amp, 2 hp with 4' power cord
Pump type:	Spring loaded vane type
Pump flow rate:	Maximum 7 GPM
Max. Pressure:	90 PSI
Filter head:	3/4" Inlet/Outlet with 3/4" flow path
Filter element:	3/4" Flow path, 10 micron with draincock
Suction hose:	3/4" x 6' wire reinforced PVC w/80 mesh strainer
Discharge hose:	3/4" x 6' wire reinforced PVC with 0.60" ID x 3' stinger
Dimensions:	12" W x 13" D x 36" H
Shipping weight:	49 lb.

Operation:

1. Insert suction hose with inlet strainer into oil tank to be filtered.
2. Insert discharge stinger into same tank some distance from the suction hose.
3. Connect the pump motor electrical cord into an appropriate 110VAC, 15 amp receptacle.
4. Turn pump motor switch on, taking care to ensure the discharge wand (stinger) is held securely to prevent spillage.
5. Use the stinger to direct a "jet" of fluid toward bottom of tank with a steady motion to stir up sedimentation, thus allowing the filter to capture these particles.
6. Upon initial startup, note the backpressure created in the filter as indicated by the pressure gauge mounted on the filter head. The initial pressure reading will vary with the type and viscosity of the fluid being pumped. As the filter element becomes plugged with contaminants, the indicated pressure on the gauge will increase. As the pressure approaches 80 to 90 PSI the flow rate will decrease significantly as the pump goes into bypass. It is necessary to change the filter at this time.

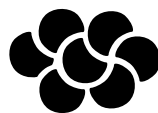
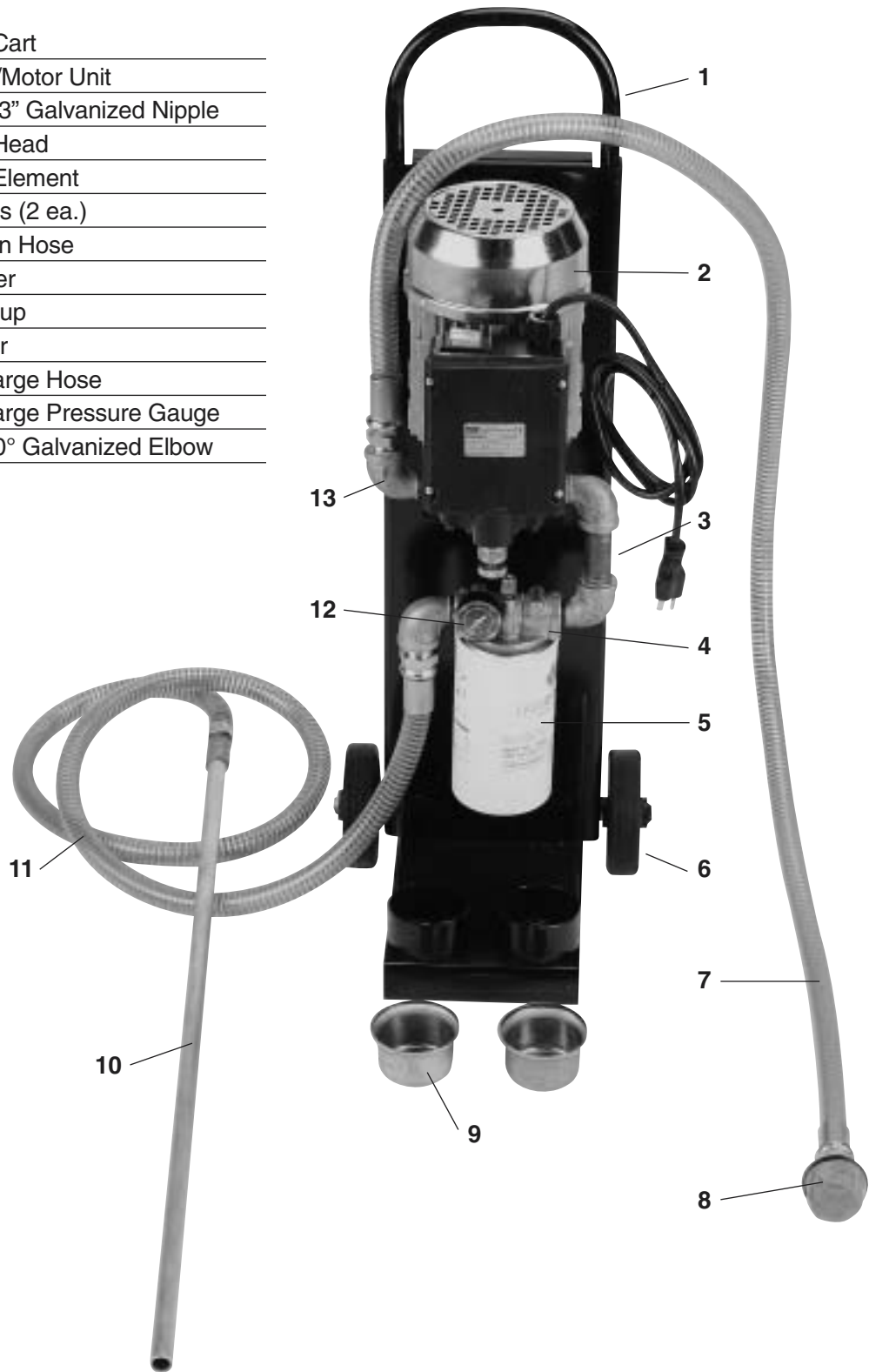
Note:

The supplied filter element (P/N 70002) is provided with a petcock drain, which should be drained periodically to release any accumulated water. Alternatively, a water absorption filter (P/N 70008) may be used to absorb any free moisture.



Exploded Parts Items:

1	P/N 901011	Filter Cart
2	P/N 33250	Pump/Motor Unit
3	P/N 900374	3/4" x 3" Galvanized Nipple
4	P/N 50181	Filter Head
5	P/N 70002	Filter Element
6	P/N S3156	Wheels (2 ea.)
7	P/N 900213	Suction Hose
8	P/N 901043	Strainer
9	P/N S4421	Drip Cup
10	P/N 901042-03	Stinger
11	P/N 900214	Discharge Hose
12	P/N 540005	Discharge Pressure Gauge
13	P/N 900389-6	3/4" 90° Galvanized Elbow



LIQUIDYNAMICS™

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