



Mobile Filtration Systems Manual

Wix Mobile Filtration Systems are an ideal way to pre-filter and transfer fluids from one container to another or to recirculate fluid (kidney loop filtration) in a reservoir to remove particulate and water contaminants in existing systems.





Mobile Filtration Systems Manual

Applications:

- Transferring new fluid from drums or storage tank to system reservoir
- Complementing existing system filtration on a preventive maintenance program.
- Filtering new fluid before putting into service.
- Removing water from hydraulic or lube oils.
- For use with fluids such as hydraulic, gear, lube oil, water soluble fluids and coolants.

Wix Mobile Filtration Systems are an ideal way to pre-filter and transfer fluids from one container to another or to recirculate fluid (kidney loop filtration) in a reservoir to remove particulate and water contaminants in existing systems.

New fluid should always be filtered before putting into use. New barreled oil on average contains 7 grams of dirt. Most new fluids are unfit for use due to high initial contamination levels. Contamination, both particulate and water, may be accidentally added to a new fluid during processing, mixing, and handling and storage.

Wix Mobile Filtration Systems can also remove water by the use of an aqua absorbing filter elements. Wix aqua absorbing elements remove up to 29 ounces of water from hydraulic oil, while filtering particulate down to 3 micron absolute.

Wix Mobile Filtration Systems utilize two stage filtration. The first stage (primary) for larger particles, the second stage (secondary) for finer particles. The “Y” strainer (located at the pump inlet) protects the pump from all visible contaminants prior to filtering.



Mobile Filtration Systems Manual

Recommended Fluid Cleanliness ISO Levels

12/9 14/11 16/13 18/15 20/17 22/19 24/21 26/23

Hydraulic Fluids

Very Clean	Clean	Dirty
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Gear Oils

Very Clean	Clean	Dirty
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Engine Lubes

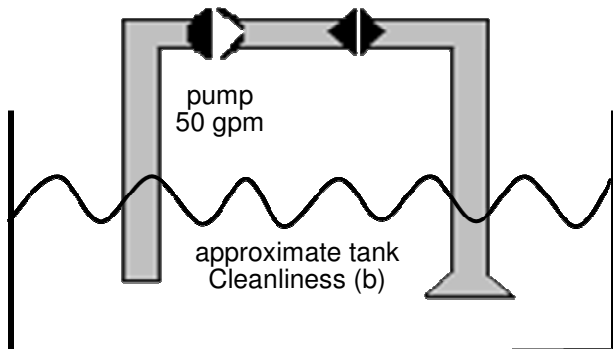
Very Clean	Clean	Dirty
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Trubine Oils

Very Clean	Clean	Dirty
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At ISO 21/18, this hydraulic system passes 136 50-lb. bags of dirt through the teeth of the pump in one year

pounds of dirt passing through pump/year (C)	filter performance (A) Absolute - beta > 75 Nominal-beta > 5	Filter (A)	ISO Code (B)	Dirt (lbs) (C)	50 LB Bags	Relative Pump Life
		25 micron nominal	21/18	67484	136	1
		10 micron nominal	19/16	1809	36	1.9
		10 micron absolute	16/13	211	4.2	4.4
		6 micron	14/11	53	1	8.8
		3 micron	12/9	14	0.28	15



REF: NORIA CORP

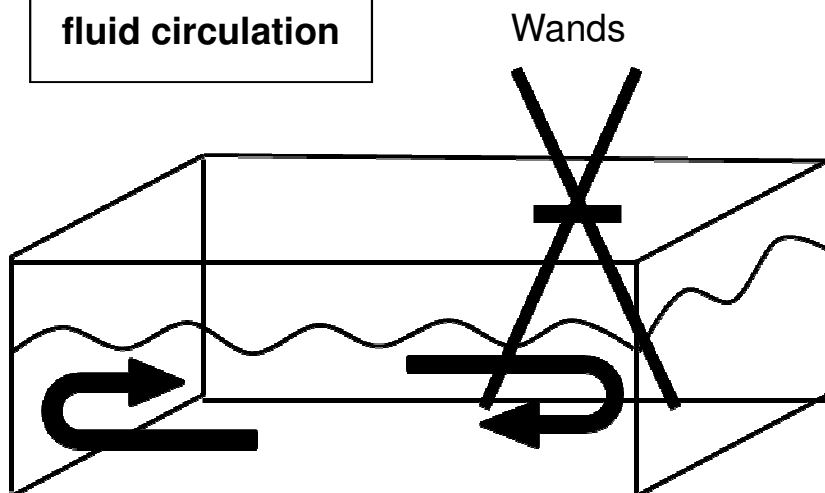


Mobile Filtration Systems Manual

Operating Instructions:

- 1) Insert the inlet wand assembly into the supply fluid drum/reservoir. The inlet wand is connected to the pump
- 2) Insert the outlet wand assembly into the transferring drum/reservoir. If filtering oil on existing equipment reservoirs, locate the inlet wand away from the outlet wand to prevent a direct flow path.

**Place wand ends
apart from each
other to maximize
fluid circulation**



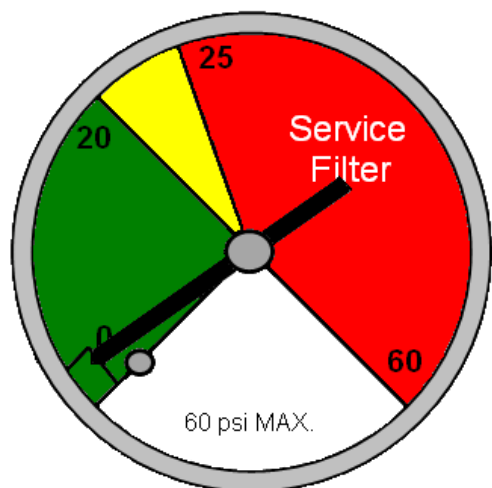
- 3) Turn switch to ON position and check outlet wand to verify for oil flow. Allow approximately 30 seconds for filters to fill with oil on the initial start up.
- 4) The condition of the filter elements should be monitored by the gauges located on the filter head. When the differential pressure gauges read in the red area turn OFF the filter cart and replace filter elements.
- 5) The "Y" strainer located before the pump should be periodically examined and cleaned if needed.



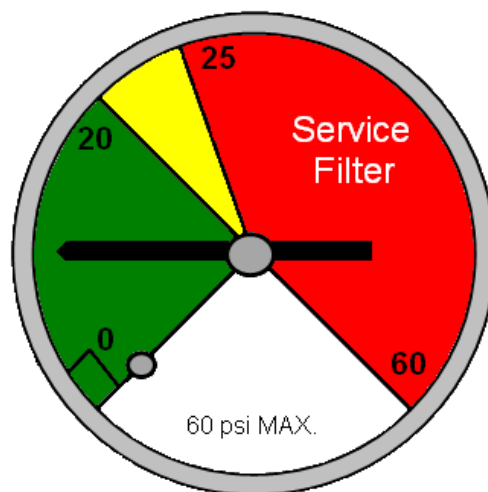
Mobile Filtration Systems Manual

Operating Instructions :

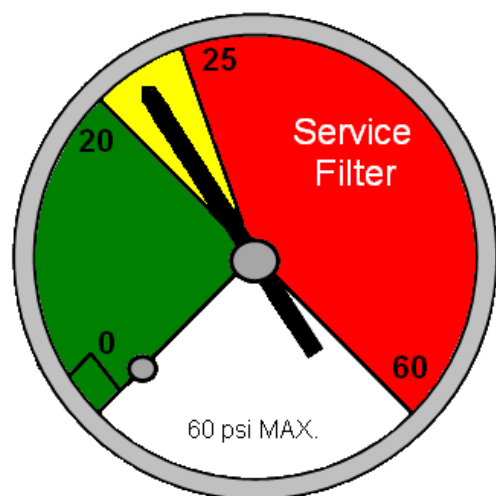
6) Wix's Mobile Filtration Systems are equipped with inlet pressure gauges that show system backpressure created as the filters collect contaminant. Change the filter or filters when the needle is positioned in the Yellow or Red portion of the gauge.



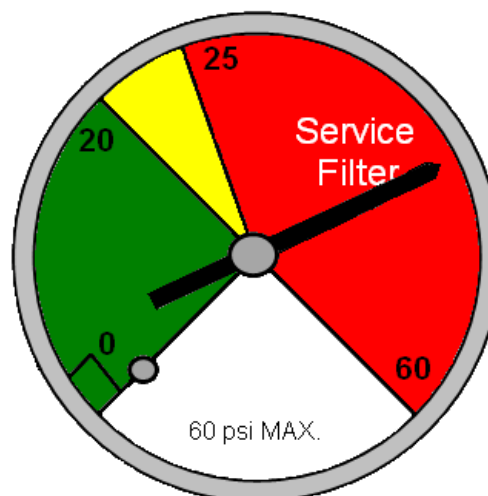
No fluid flow



Fluid flow



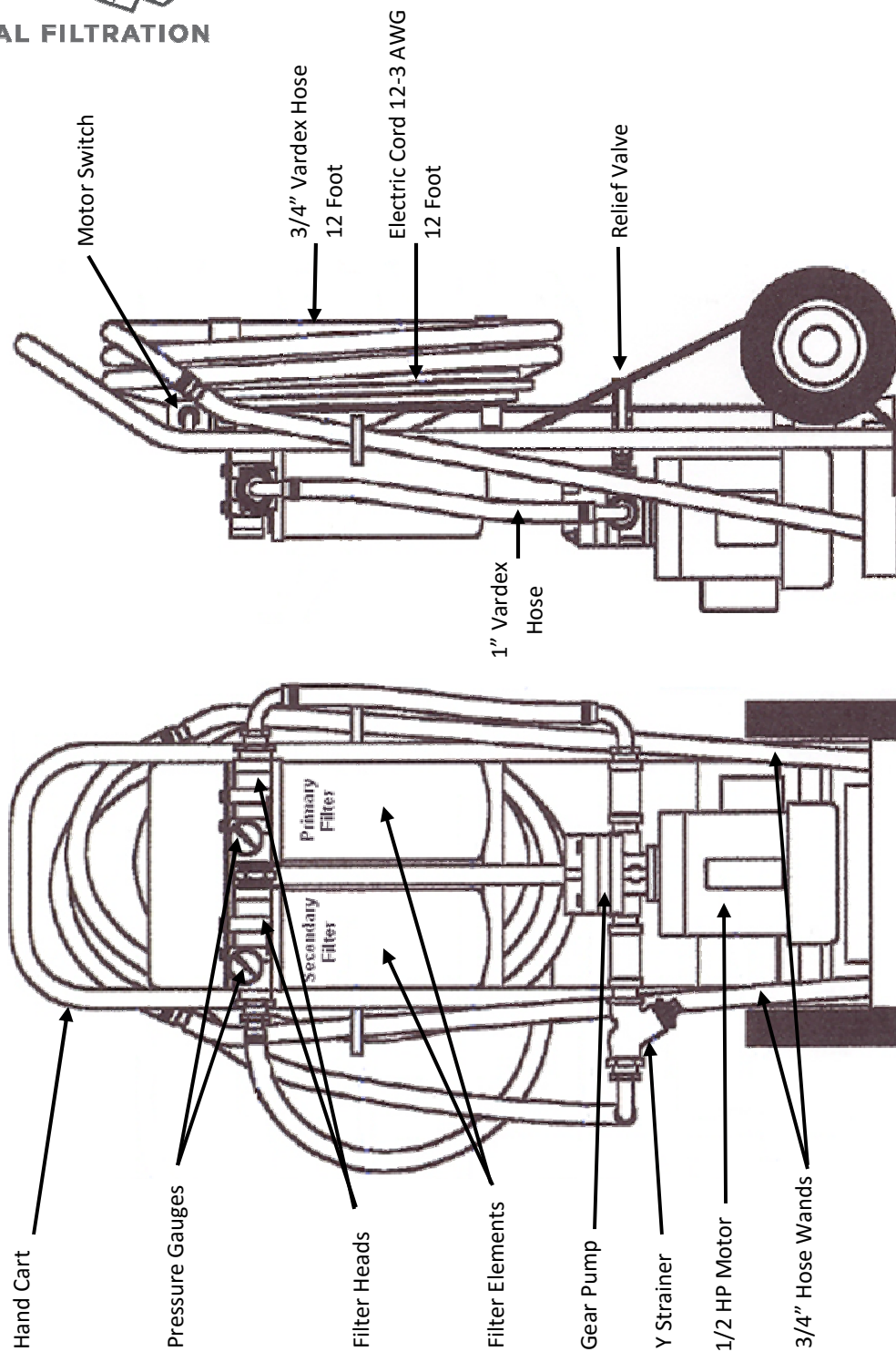
Change filter soon



Change filter



Mobile Filtration Systems Cart Unit





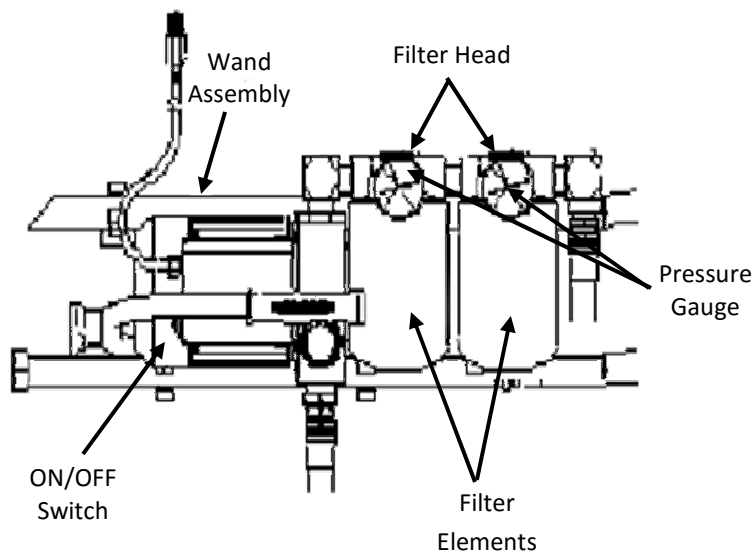
Mobile Filtration Systems Cart Unit

Trouble Shooting — Cart Unit

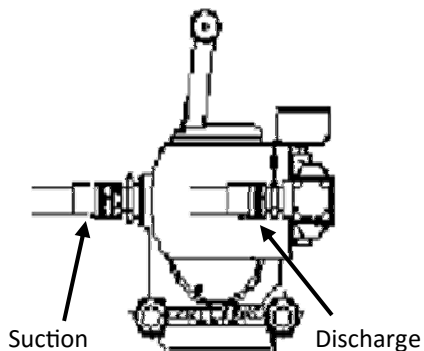
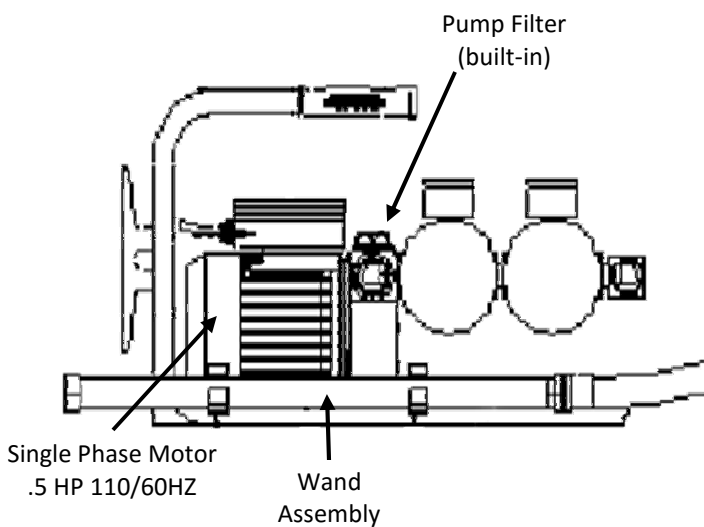
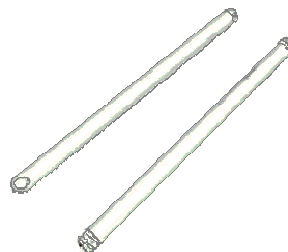
<u>Problem</u>	<u>Cause</u>	<u>Solution</u>
Does not start	ON/OFF switch	Turn switch ON, replace if defective
	Defective motor overload	Replace motor overload (located in switch housing)
	No electrical power	Check power supply
	Defective motor	Replace motor
No oil flow	“Y” strainer	Check “Y” strainer for contamination blockage
Erratic pump noise	Defective pump or suction leak	Replace pump. Check hose for loose connections.
Gauges read in yellow or red zone	Element reaching maximum dirt holding capacity.	Install new elements.
	Oil is extremely cold or viscous	Change element to coarser micron.



Mobile Filtration Systems Hand-Held Unit



Wand Assembly





Mobile Filtration Systems Hand-Held Unit

Trouble Shooting — Hand-Held Unit

<u>Problem</u>	<u>Cause</u>	<u>Solution</u>
Does not start	ON/OFF switch	Turn switch ON, replace if defective
	Defective condenser	Replace condenser (located in switch housing)
	No electrical power	Check power supply
	Defective motor	Replace motor
No oil flow	Pump Filter (built in)	Check pump filter for contamination block
Erratic pump noise	Defective pump or suction leak	Replace pump/motor. Check hose for loose connections.
Gauges read in yellow or red zone	Element dirty	Install new elements.
	Oil is extremely cold or viscous	Change element to coarser micron.



Mobile Filtration Systems Stock

Cart System

<u>System P/N</u>	<u>Upstream Filter</u>	<u>Filter P/N</u>	<u>Downstream Filter</u>	<u>Filter P/N</u>
W45A503	10 mic water removal	A09A10CW	10 mic glass	A09A10G

<u>Part Number</u>	<u>Description</u>	<u>Micron</u>	<u>Media</u>
A09A01G	Spin-On	1	Glass
A09A03C	Spin-On	3	Paper
A09A03CW	Spin-On	3	Paper Water Removal
A09A03G	Spin-On	3	Glass
A09A03GW	Spin-On	3	Glass Water Removal
A09A06G	Spin-On	5	Glass
A09A06GW	Spin-On	5	Glass Water Removal
A09A10C	Spin-On	10	Paper
A09A10CW	Spin-On	10	Paper Water Removal
A09A10G	Spin-On	10	Glass
A09A10GW	Spin-On	10	Glass Water Removal
A09A25C	Spin-On	25	Paper
A09A25CW	Spin-On	25	Paper Water Removal
A09A25G	Spin-On	25	Glass
A09A25GW	Spin-On	25	Glass Water Removal
A09A60T	Spin-On	60	Stainless Mesh
A09A125T	Spin-On	125	Stainless Mesh





Mobile Filtration Systems Stock

Hand-Held System

<u>System P/N</u>	<u>Upstream Filter</u>	<u>Filter P/N</u>	<u>Downstream Filter</u>	<u>Filter P/N</u>
W19A468	10 mic water removal	A02A10CW9	10 mic paper	A02A10C9

<u>Part Number</u>	<u>Description</u>	<u>Micron</u>	<u>Media</u>
A02A03G9	Spin-On	3	Glass
A02A06G9	Spin-On	5	Glass
A02A06GW9	Spin-On	5	Glass Water Removal
A02A10C9	Spin-On	10	Paper
A02A10CW9	Spin-On	10	Paper Water Removal
A02A25C9	Spin-On	25	Paper
A02A25CW9	Spin-On	25	Paper Water Removal
A02A25G9	Spin-On	20	Cellulose
A02A60T9	Spin-On	60	Stainless Mesh
A02A125T9	Spin-On	125	Stainless Mesh

