

OIL FILTRATION and RECONDITIONING SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 www.serfilco.com (800) 323 - 5431

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For renewal of:

Hydraulic fluids / Lubricating oils Cutting fluids / Oil & water based coolants EDM — dielectric fluids / Synthetic oils

- Protect expensive machinery from damaging dirt and abrasives
- Quick payback Save disposal costs, re-use filtered liquid and lower biocide usage
- No down-time while restoring liquid to original level of cleanliness
- Optional coalescers to separate immiscible fluids

Oil contamination is the major cause of hydraulic equipment failure. Even fresh oil, right from the drum, may contain contaminants at levels exceeding new equipment manufacturers' standards. Petroleum products such as hydraulic fluids don't wear out. Filter them to like-new condition. Add new product only to make up for losses and to replenish additives.

Trans-O-Filter Systems effectively filter petroleum and synthetic fluids to remove abrasive grit and damaging sludges which contaminate and accumulate in hydraulic and lubricating oil circuits and reservoirs. They protect your machinery and system investments by eliminating pump damage, scored cylinders and the malfunction of valves and controls attributed to the destructive action of dirty or rancid oil. These systems offer you high flow rates and large dirt holding capacities in very compact packages. Each unit is designed to be completely self-contained; consisting of pump, motor, suction strainer and hoses. Carbon steel filter chamber will accommodate filter media down to 1 micron retention to meet your specific requirements. (Order filter media separately.)

Oil reconditioning stations salvage contaminated oils for further use by removing sludges, water and other suspended foreign material. Systems accelerate natural settling action with controlled elevated temperatures. Residual fine particulate are then removed by a polishing filter of inert depth type media. If removal of oxidation products is desirable, the polishing filter can be equipped with adsorbent Fuller's Earth.

Optional coalescing chambers provide a means to separate immiscible fluids such as tramp oil or water. These coalescers will handle dissimilar liquids with specific gravity differences of 0.09 and greater. The resulting effluent contains less than 10 PPM of the discontinuous phase.



- 1. Carbon steel filter chamber with 75 psi maximum rating. "O"-ring closure is EPDM on portable model, Buna-N on all others.
- Positive displacement self-priming gear pump with built-in relief valve set at 35 psi, Viton mechanical seal and 40 mesh suction strainer. Motor: 115-230V/1/60, 1725 RPM, TEFC, with 8 ft. of 3-wire extension cord and 3-prong plug. Units wired 115V standard.
- Also available with air operated diaphragm pump, polypropylene with Teflon® internals
- 4. 10' suction and discharge hoses (vinyl on portable; Buna-N and neoprene on others).
- 5. Petcock vent and drain plug.
- 6. Pressure gauge mounted on gauge snubber to indicate dirty filter.
- 7. Completely assembled stationary models mounted on a vinyl coated steel base. Mobile models include 2-wheel upright hand cart with handle.
- 8. Painted machine tool gray with two-part epoxy paint.
- Optional coalescing chambers include Pyrex[®] sight glass and coalescing element ².
 - ¹ For liquid temperatures up to 200°F. ² For liquid temperatures up to 160°F.



HAND-CARRY for remote or field servicing



TRANS-O-FILTER w/optional coalescing chamber



OIL RECONDITIONING STATION for salvaging oils in large volume



TRANS-O-FILTER® OIL | FILTRATION SYSTEMS

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PORTABLE



HAND-CARRY

- Remote location service
- Hydraulic door openers
- Escalator / elevator service
- Ideal for machine-tool servicemen

Small hydraulic reservoirs

Transfer from drum to

PORTABLE (on wheels)

- Easy to move to site of required oil filtration
- Includes motor starter (electric drive models)
- machine reservoir and get added benefit of filtration

Ideal for field service personnel

MACHINE MOUNT

- Ideal for mounting to press or machine tool
- Support / extend original equipment filter system
- Mounts next to oil reservoir
- For permanent installation and continuous duty filtration

STATIONARY

- Provides same filtration as portable models, but mounted on a vinyl coated steel base
- Designed to be piped in place for high flow service on medium to large reservoirs
- Excellent for continuous recirculation of large central oil / coolant storage tanks

TOORDER, use PRICE CODE NO.

	PRICE	MODEL	CAPTS * SUR	FILTER SURFACE	SUCTION x DISCHARGE	MOTOR	DIMENSIONS L x W x H	SHIP WT.	
HAND-CARRY	CODE NO.			CARTS.*	AREA	HOSE SIZE	H. P.	Inches	Lbs.
Includes protective hood and sturdy carrying handle.	1402 A	S10 1/2S TS3	180	1 - 10"	3.5 sq. ft.	3/8" x 3/8"	1/3	13 x 9 x 15	60
Painted machine tool gray.	1429	S20 1/2S TS3	100	2 - 10"	7.0 sq. ft.	3/0 X 3/0	1/3	23 x 9 x 15	65

MACHINE MOUNT

With wall mount base plate.	1430	MMS20 1/S TS3	180	2 - 10"	7.0 sa. ft.	3/8" x 3/8"	1/2	14 x 14 x 7	60	ı
Painted machine tool gray.	1430	IVIIVISZU 725 133	100	2 - 10	7.0 Sq. II.	3/0 X 3/0	1/3	14 X 14 X /	00	ı

	PRICE	MODEL	FLOW	NO. OF	FILTER SUR-	SUCTION X	MOTOR H.P./	DIMENSIONS L x W x H	SHIP WT.
PORTABLE	NO.	MODEL	GPH	CARTRIDGES *	FACE AREA	DISCHARGE HOSE SIZE	SCFM@ PSI	Inches	Lbs
Electric	1405 B	S1(718)1/2BTS6-P-ST4-PS	360	1 - 4" or 7" x 18"	29.0 sq. ft.	3/4" x 1/2"	1/2	18 x 17 x 46	115
drive	1407 B	S50(1) 1/2 B TS3-P-ST4-PS	180	5 - 10"	17.5 sq. ft.	3/4" x 1/2"	1/3	18 x 17 x 46	115
models	1410 B	S100(2) 1/2 B TS6-P-ST4-PS	360	10 - 10"	35.0 sq. ft.	3/4" x 1/2"	1/2	18 x 17 x 46	125
illoueis	1413B	S150(3) 1 B TS9-P-ST4-PS	540	15 - 10"	52.5 sq. ft.	1" x 1"	1	18 x 17 x 52	130
Air	1437	S1(718) 1/2B PPTF1/2-P-PRV	480	1 - 4" or 7" x 18"	29.0 sq. ft.	3/4" x 1/2"	5 @ 50	18 x 17 x 46	110
drive	1438	S50(1) 1/2 B PPTF1/2-P-PRV	480	5 - 10"	17.5 sq. ft.	3/4" x 1/2"	5 @ 50	18 x 17 x 46	110
models	1439	S100(2) 1/2 B PPTF1/2-P-PRV	480	10 - 10"	35.0 sq. ft.	3/4" x 1/2"	5 @ 50	18 x 17 x 46	120
illoueis	1440	S150(3)1B PPTF1-P-PRV	600	15 - 10"	52.5 sq. ft.	1" x 1"	10 @ 40	18 x 17 x 52	145

STATIONARY

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Electric	1416A	S1(718) 1/2STS6-PS	360	1 - 4" or 7" x 18"	29.0 sq. ft.	3/4" x 1/2"	1/2	30 x 13 x 30	105
drive	1418A	S50(1) 1/2STS3-PS	180	5 - 10"	17.5 sq. ft.	3/4" x 1/2"	1/3	30 x 13 x 25	115
models	1422 A	S100(2) 1/2STS6-PS	360	10 - 10"	35.0 sq. ft.	3/4" x 1/2"	1/2	30 x 13 x 37	125
illoueis	1426 A	S150(3) 1STS9-PS	540	15 - 10"	52.5 sq. ft.	1" x 1"	1	30 x 13 x 47	130
A :	1441	S1(718) 1/2S PPTF1/2-PRV	480	1 - 4" or 7" x 18"	29.0 sq. ft.	3/4" x 1/2"	5 @ 50	30 x 13 x 30	100
Air drive	1442	S50(1) 1/2S PPTF1/2-PRV	480	5 - 10"	17.5 sq. ft.	3/4" x 1/2"	5 @ 70	30 x 13 x 25	95
models	1443	S100(2) 1/2S PPTF1/2-PRV	480	10 - 10"	35.0 sq. ft.	3/4" x 1/2"	5 @ 70	30 x 13 x 37	120
inoueis	1444	S150(3) 1/2S PPTF1-P-PRV	600	15 - 10"	52.5 sq. ft.	1" x 1"	10 @ 40	30 x 13 x 47	135



OIL FILTRATION/RECONDITOINING | SYSTEMS

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TRANS-O-FILTER OPTIONS

DECODINE	ADD			
DESCRIPTION	TO END OF MODEL NO.	PRICE CODE NO.		
Coalescing chamber with K4x11N element(s) included. 1 element chamber (Portable or stationary models only.)	-1F8	O-1235		
By-pass piping including 3 two-way valves for convenient transfer to by-pass filter. (Not for Hand-Carry) -1"	-BP	O-1198A O-1199A		
Portable base with two swivel and two fixed casters. (For stationary models only.)	-P	O-1428		
Push button single phase motor starter with overload protection in water/oil tight enclosure. (Standard with portable models).	-ST4	O-1214		
Viton® elastomers	-V	Add to PCN -V		

FILTER MEDIA

DESCRIPTION	MICRON RETENTION	PRICE CODE NO.
2½" x 10" depth wound cotton filter cartridges on tinned steel core	5 10 15 30 50 75 100	5C10TC 10C10T 15C10T 30C10T 50C10T 75C10T 99C10T
4" x 18" depth wound cotton filter cartridges on 304 stn. steel core	1 3 5 10 20 30	1B18A4 3B18A4 5B18A4 10B18A4 20B18A4 30B18A4
3" x 10" pleated paper cartridges	1 5 10	PL310-1 PL310-5 PL310-10

NOTE:

Orderfilter and coalescing media separately. Consult Sales Dept. for other cartridges.

Consult Sales Dept. for custom or special models, custom paint, Viton hose, three-phase motors or explosion-proof motors.

COALESCING ELEMENTS

DESCRIPTION*	MODELNO.	PRICECODENO.
Nylon / 304 SS / Buna-N	K4x11N	88-3248
Polypropylene / 304 SS / Buna-N	K4x11P	88-3249
Glass / 304 SS / Buna-N	K4x11G	88-3250

^{*} Media / Core / Cap

OIL RECONDITIONING STATIONS

INCREASE TOOL LIFE, REDUCE PRODUCTION COSTS BY RECYCLING CUTTING OILS FOR RE-USE

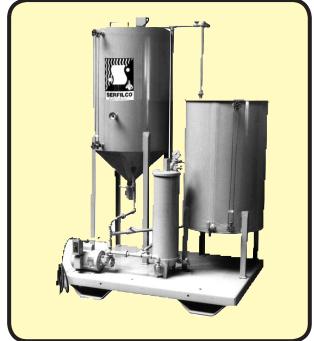
PURIFIES ALL TYPES OF LUBRICANTS

The station at right is extremely well suited for screw machine oil coolants. Cutting oil, lapping oil, honing oil, hydraulic oils, synthetic oils, lubricating oils, vacuum pump oils, compression oil and many other special oils can be economically restored.

EASY, LOW COST OPERATION

This station is very compact as well as easy and economical to operate. It features a cone bottom settling tank equipped with a thermostatically controlled electric heating element that raises the temperature of the contaminated oils. This accelerates the natural settling of suspended foreign material into the cone for easy removal. The station also includes a positive displacement pump with a pressure relief valve, a TEFC motor, a pressure filter with gauge and a clean oil storage tank.

Models with a 50, 250, 500, 1000 or 2000 gallon settling capacity are available.



Interconnected valve arrangement enables product to be conveniently transferred according to the need and clarification required.

- 1. Pump dirty oil from a floor drum to a settling tank.
- 2. Transfer and filter settled oil from settling tank to storage tank.
- 3. Recirculate and filter oil in storage tank.
- 4. Transfer and filter settled oil from settling tank to floor drum.
- 5. Recirculate and filter oil in floor drum.
- 6. Draw clean oil from storage tank to container.
- 7. Pump clean oil from storage tank to container or machine.





OIL RECONDITOINING | STATIONS

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 MODEL
 PRICE CODE NO.

 50RS3-6-S4
 1216A

Consists of a 50 gallon cone bottom settling tank (not including cone capac-

ity) with 120 or 240V thermostat-controlled immersion heaters*, sight glass, cover and 2" ball dump valve. One 50 gallon clean oil storage tank with sight glass and draw valve. Six-cartridge filter vessel, pressure gauge and vent valve. Piped to a 3 GPM positive displacement gear pump with suction strainer and internal relief valve, close-coupled to a 1/3 H.P., 115-230V/1/60 TEFC motor, with NEMA4 motor starter. Components interconnected with ½" piping and lever handle brass valves for instant reference to open or closed position, 10' suction and discharge hoses. Mounted to a 4' x 3' steel base, 5'-7" overall height. Allow 1'-0" clearance for hinged cover.

* 1 kw @ 120V or 4 kw @ 240V.

250RS6-12-S4

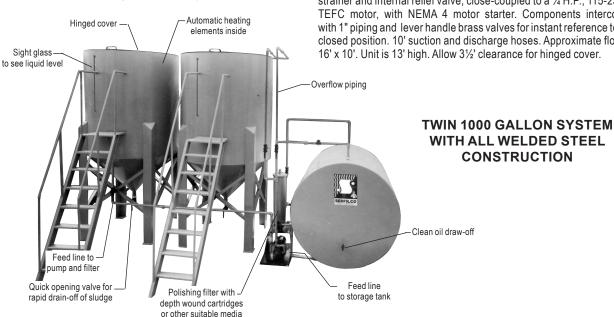
1217A

Consists of a 250 gallon cone bottom settling tank

(not including cone capacity) with three 230 or 460V thermostat-controlled 5 kw immersion heaters, sight glass, hinged cover, 2" ball dump valve and platform ladder. One 275 gallon clean oil storage tank with sight glass and draw valve. Twelve-cartridge filter vessel, pressure gauge and vent valve. Piped to a 6 GPM positive displacement gear pump with suction strainer and internal relief valve, close-coupled to a ½ H.P., 115-230V/1/60 TEFC motor, with NEMA 4 motor starter. Components interconnected with ½" piping and lever handle brass valves for instant reference to open or closed position, 10' suction and discharge hoses. Approximate floor space 5' x 6'. Unit is 7'-1" high. Allow 2'-3" clearance for hinged cover.

NOTE:

Models feature all-welded construction, two-part epoxy enamel paint. Consult Application Engineering Dept. for custom systems, addition of coalescing chamber or substitution of pump or filter chamber. Order filter cartridges separately.



 MODEL
 PRICE CODE NO.

 500RS6-12-S4
 1218A

Consists of a 500 gallon cone bottom settling tank (not including cone capac-

ity) with three 230 or 460V thermostat-controlled 10 kw immersion heaters, sight glass, hinged cover, 2" ball dump valve and platform ladder. One 500 gallon clean oil storage tank with sight glass and draw valve. Twelve-cartridge filter vessel, pressure gauge and vent valve. Piped to a 6 GPM positive displacement gear pump with suction strainer and internal relief valve, close-coupled to a ½ H.P.,115-230V/1/60 TEFC motor, with NEMA 4 motor starter. Components interconnected with ½" piping and lever handle brass valves for instant reference to open or closed position, 10' suction and discharge hoses. Approximate floor space 6' x 9'. Unit is 9'-5" high. Allow 2'-8" clearance for hinged cover.

1000RS9-18-S4

1219A

Consists of a 1000 gallon cone bottom settling tank

(not including cone capacity) with six 230 or 460V thermostat-controlled 10 kw immersion heaters, sight glass, hinged cover, 2" ball dump valve and platform ladder. One 1000 gallon clean oil storage tank with sight glass and draw valve. Eighteen-cartridge filter vessel, pressure gauge and vent valve. Piped to a 9 GPM positive displacement gear pump with suction strainer and internal relief valve, close-coupled to a 3 H.P., 115-230V/1/60 TEFC motor, with NEMA 4 motor starter. Components interconnected with 1" piping and lever handle brass valves for instant reference to open or closed position. 10' suction and discharge hoses. Approximate floor space 11' x 10'. Unit is 13' high. Allow 3½' clearance for hinged cover.

1000x2RS9-18-S4

1220A

Consists of two 1000 gallon cone bottom settling

tanks (not including cone capacity), each with six 230 or 460V thermostat-controlled 10 kw immersion heaters, sight glass, hinged cover, 2" ball dump valve and platform ladder. One 1000 gallon clean oil storage tank with sight glass and draw valve. Eighteen-cartridge filter vessel, pressure gauge and vent valve. Piped to a 9 GPM positive displacement gear pump with suction strainer and internal relief valve, close-coupled to a 3'4 H.P., 115-230V/1/60 TEFC motor, with NEMA 4 motor starter. Components interconnected with 1" piping and lever handle brass valves for instant reference to open or closed position. 10' suction and discharge hoses. Approximate floor space 16' x 10'. Unit is 13' high. Allow 3½' clearance for hinged cover.

Registered trademarks:

Viton-DuPontDowElastomers; Teflon-DuPont; Pyrex-Corning, Inc.