R

COALESCING SYSTEMS



LIQUID / LIQUID SEPARATION

COMPACT, ECONOMICAL LIQUID SEPARATION SYSTEMS FOR USE WITH NON-EMULSIFIED SOLUTIONS UP TO 150°F.

SERFILCO Coalescing Systems are compact, economical, and simple to operate. Remove oils from rinse waters, cleaning solutions, plating solutions or waste effluents. Separate water or tramp oil from hydraulic fluids and machining coolants.

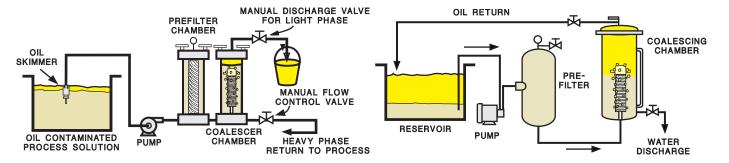
Highly effective; systems separate non-emulsified fluids having a .09 or greater difference in specific gravity. Solution is pumped through prefilter, then coalescing element where small droplets are held until large enough to float to top of coalescing chamber. Light phase is discharged from top of coalescing chamber, heavy phase is discharged from bottom of coalescing chamber. Unwanted phase is periodically bled off via manual flow control valve. Purified solution is directed back to tank or reservoir for re-use. Recovered effluent contains less than 10 ppm of the discontinuous phase. Carbon purification may be used to polish.

Standard coalescing systems include pump*, prefilter and coalescing chamber with manual light and heavy phase discharge valves. Prefilter media of 5 to 10 micron is required to protect coalescing element. Selecting a system with greater prefilter capacity will reduce prefilter cartridge and coalescing element consumption. If properly protected, coalescing element has indefinite life. Coalescing of fluids with excessive particulate loading is best accomplished when solution is first clarified with separate filtration system.

* Standard pumps are low shear positive displacement: rotary gear or diaphragm. These pumps minimize emulsification and have self-priming capabilities. For removal of floating or light phase, pump suction must be connected to overflow weir or optional skimmer assembly. For removal of heavy phase solution, suction connection near tank bottom is recommended.

OIL SEPARATION FROM AQUEOUS RESERVOIR

WATER SEPARATION FROM **OIL RESERVOIR**





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PLASTIC COALESCING SYSTEMS

Plastic coalescing system are best suited for seperation of oil from aqueous based solutions. Non-metallic solution contact allows a wide range of chemical compatibility.

Plastic Coalescing systems include:

- Plastic prefilter chamber and coalescer with EPDM gaskets
- Polypropylene air operated diaphgram pump with Teflon[®] internals.
- Air pressure regulator
- Light and heavy phase discharge valves on coalescer
- Corrosion resistan mounting plates
- Pump will run dry and self primes to 10ft.

FL	FLOW		SCFM		PR	PREFILTER		LESCER	DIMENSIONS	SHIPPING
GPH @ 60 Hz	LPH @ 50 Hz	SYSTEM	@ PSI	PUMP	MEDIA/ CHAMBER SERIES	MATERIALS OF CONST. BASE / SHELL	MEDIA / CHAMBER	MATERIALS OF CONST. BASE / SHELL	L x W x H Inches	WEIGHT Lbs.
300	1363	S-1386A	2 @ 40	PPTF½"	1-20" / L	PVC/clear PVC	1-2.5"x10" / L	PVC/clear PVC	19" x 10" x 33"	70
300	1363	S-1387	2 @ 40	PPTF½"	1-20" / L	polypropylene	1-2.5"x10" / L	polypropylene	19" x 10" x 33"	70
600	2271	S-1388	10 @ 40	PPTF1"	3-10"/S	polypropylene	1-2.5"x10"/S	PP/clear PVC	29" x 10" x 33"	80
600	2271	S-1389	10 @ 40	PPTF1"	3-10"/S	polypropylene	1-2.5"x10"/S	polypropylene	29" x 10" x 33"	80
600	2271	S-1390	10 @ 40	PPTF1"	3-20"/S	polypropylene	1-2.5"x10"/S	polypropylene	29" x 10" x 33"	90
1500	5678	S-1391	30 @ 80	PPTF1"	3-20"/S	polypropylene	1-6"x11" / G	polypropylene	33" x 18" x 33"	100
1500	4578	S-1392	30 @ 80	PPTF1"	3-30"/S	polypropylene	1-6"x11 / G	polypropylene	33" x 18" x 43"	100

METAL COALESCING SYSTEMS

Metal Coalescing System are best suited for removing oil from synthetic machining fluids, oils from alkaline solutions or trace water from petroluem base fluids.

Metal Coalescing systems include:

- Metallic prefilter chamber and coalescer with Buna-N gaskets
- Light and heavy phase discharge valves and sight glass on coalescer
- Corrosion resistant mounting base

- Air operatied systems
 Polypropylene air operated diaphragm pump with Teflon[®] internals
 Pump will run dry and self primes to 10 ft.
- Electric operates system
 Cast iron gear pump. Pump will self
 prime to 10 ft.
 115V/1/60, TEFC, 1725 RPM motor
 with 8 ft of 3-wire cord and plug



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AIR OPERATED METAL COALESCING SYSTEMS

FLOW		SYSTEM	SCFM	SCFM	SCFM	SCFM	SCFM		PF	REFILTER	COA	ALESCER	DIMENSIONS	SHIPPING
GPH @	LPH @ 50 Hz	NUMBER	@ PSI	PUMP	MEDIA	MATERIALS OF CONST.	MEDIA	MATERIALS OF CONST.	L x W x H Inches	WEIGHT Lbs.				
480	1363	S-1283	5 @ 50	PPTF½"	5-10"	carbon steel	1-4" x 11"	carbon steel	42" x 13" x 37"	150				
480	2271	S-1284	5 @ 50	PPTF½"	5-20"	carbon steel	1-4" x 11"	carbon steel	42" x 13" x 37"	160				
600	5678	S-1285	10 @ 40	PPTF1"	5-30"	carbon steel	1-4" x 11"	carbon steel	42" x 13" x 37"	170				

ELECTRIC OPERATED METAL COALESCING SYSTEMS

FL	ow			PREF	PREFILTER COALESCER				
GPH @ 60 Hz	LPH @ 50 Hz	SYSTEM NUMBER	PUMP HP, MODEL	MEDIA	MATERIALS OF CONST.	MEDIA	MATERIALS OF CONST.	DIMENSIONS L x W x H Inches	WEIGHT Lbs.
180	567	S-1277	1/3, TS3	5 - 10"	carbon steel	1-4"x11"	carbon steel	42" x 13" x 37"	175
360	1134	S-1278	1/2, TS6	5 - 20"	carbon steel	1-4"x11"	carbon steel	42" x 13" x 37"	195
540	1701	S-1279	1, TS9	5 - 30"	carbon steel	1-4"x11"	carbon steel	42" x 13" x 37"	215

OPTIONAL

DESCRIPTION	PRICE CODE NO.
Motor starter Model -ST4	0-MS1P
Portable - 2 wheels and 2 legs on standard mounting base (metal & plastic systems)	O-0191
Sight glass for 1500 GPH coalescing chamber	O-1435
Viton ® chamber elastomers / Viton impeller (J-pumps)	Add -V to System No.

COALESCING MEDIA

MODEL	MATERIAL DESCRIPTION	DIMENSIONS	PRICE
	Media, Core, End Caps*	I.D. x O.D. x Length	CODE NUMBER
K2.5 x 10N	Nylon, polypropylene, EPDM	1" x 2.5" x 10"	88-3245
K2.5 x 10P	Polypropylene, polypropylene, EPDM		88-3246
K2.5 x 10G	Glass, polypropylene, EPDM		88-3247
K4 x 11N	Nylon, 304 stainless steel, Buna-N	1.8" x 4" x 11"	88-3248
K4 x 11P	Polypropylene, 304 stainless steel, Buna-N		88-3249
K4 x 11G	Glass, 304 stainless steel, Buna-N		88-3250
K6 x 11NPP	Nylon, Polypropylene, Buna-N	3" x 6" x 11"	88-0816

^{*} Viton® end caps (4 x 11 size only). Minimum order carton quantity. Add -V to Model and Price Code Number. Note: Carton quantity: 25 of 10", 10 of 11".

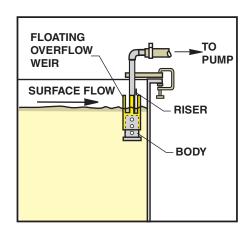


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PREFILTER MEDIA

MICRON	MEDIA	LENGTH (Inches)	CORE	PRICE CODE NO.
5	polypropylene	10	polypropylene	05U10U
5	polypropylene	20	polypropylene	05U20U
5	polypropylene	30	polypropylene	05U30U
10	polypropylene	10	polypropylene	10U10U
10	polypropylene	20	polypropylene	10U20U
10	polypropylene	30	polypropylene	10U30U
5	bleached cotton	10	tinned steel	05C10T
5	bleached cotton	20	tinned steel	05C20T
5	bleached cotton	30	tinned steel	05C30T
10	bleached cotton	10	tinned steel	10C10T
10	bleached cotton	20	tinned steel	10C20T
10	bleached cotton	30	tinned steel	10C30T

SKIMMER ASSEMBLY



REMOVES FLOATING OILS OR PARTICULATES

- Constructed of CPVC with polyproplene floating meir.
- To select skimmer:
- Determine tank liquid level differential
 This will minimize dry pump operation.
- 2. Use skim rate as guideline for sizing

MODEL	LIQUID	SKIM	CULET	RISER	BRACKET	PRICE
NUMBER	LEVEL	RATE	HOSE	LENGTH	1/2"	CODE
NUMBER	DIFFERENTIAL	GPH	CONN.	LENGTH	THICK	NO.
SK 1/2	2"	to 300	1/2"	13"	4" x 2"	99-0479
SK 3/4	3"	to 600	3/4"	18"	4" x 2"	99-0498
SK 1	4"	to 900	1"	18"	6" x 2"	99-0480

Assembly include mounting bracket, adjustable riser and "C" clap.