

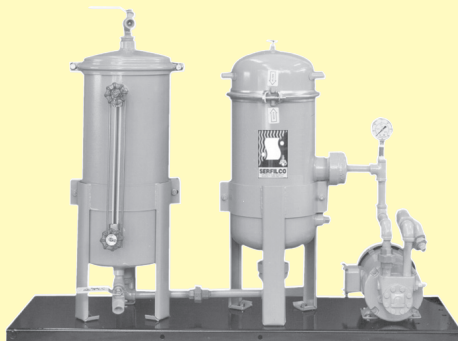


LIQUID / LIQUID SEPARATION

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



Plastic System



Steel System

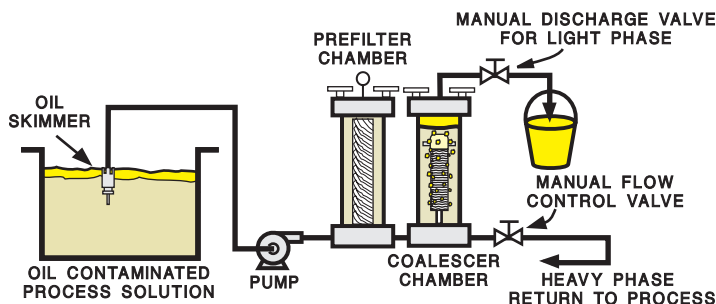
SERFILCO Coalescing Systems are compact, economical, and simple to operate. Remove oils from rinse waters, cleaning solutions, plating solutions or waste effluents. Separate water or tramp oil from hydraulic fluids and machining coolants.

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.

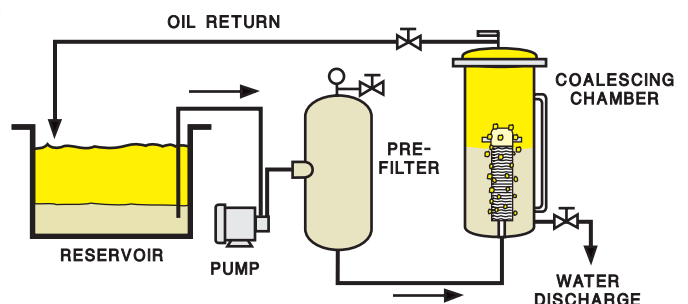
Standard coalescing systems include pump*, prefilter and coalescing chamber with manual light and heavy phase discharge valves. Prefilter media of 5 to 10 micron is required to protect coalescing element. Selecting a system with greater prefilter capacity will reduce prefilter cartridge and coalescing 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





PLASTIC COALESCING SYSTEMS

Plastic coalescing system are best suited for separation 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 diaphragm pump with Teflon® internals.
- Air pressure regulator
- Light and heavy phase discharge valves on coalescer
- Corrosion resistant mounting plates
- Pump will run dry and self primes to 10ft.

| FLOW | | SYSTEM | SCFM @ PSI | PUMP | PREFILTER | | COALESCER | | DIMENSIONS L x W x H Inches | SHIPPING WEIGHT Lbs. |
|-------------|-------------|---------|------------|--------|-----------------------|----------------------------------|-----------------|----------------------------------|-----------------------------|----------------------|
| GPH @ 60 Hz | LPH @ 50 Hz | | | | MEDIA/ CHAMBER SERIES | MATERIALS OF CONST. BASE / SHELL | MEDIA / CHAMBER | MATERIALS OF CONST. BASE / SHELL | | |
| 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 petroleum 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 operated 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



AIR OPERATED METAL COALESCING SYSTEMS

| FLOW | | SYSTEM NUMBER | SCFM @ PSI | PUMP | PREFILTER | | COALESCER | | DIMENSIONS L x W x H Inches | SHIPPING WEIGHT Lbs. |
|-------------|-------------|---------------|------------|--------|-----------|---------------------|------------|---------------------|-----------------------------|----------------------|
| GPH @ 60 Hz | LPH @ 50 Hz | | | | MEDIA | MATERIALS OF CONST. | MEDIA | MATERIALS OF CONST. | | |
| 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

| FLOW | | SYSTEM NUMBER | PUMP HP, MODEL | PREFILTER | | COALESCER | | DIMENSIONS L x W x H Inches | WEIGHT Lbs. |
|-------------|-------------|---------------|----------------|-----------|---------------------|-----------|---------------------|-----------------------------|-------------|
| GPH @ 60 Hz | LPH @ 50 Hz | | | MEDIA | MATERIALS OF CONST. | MEDIA | MATERIALS OF CONST. | | |
| 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 Media, Core, End Caps* | DIMENSIONS I.D. x O.D. x Length | PRICE CODE NUMBER |
|--|--|------------------------------------|-------------------------------|
| K2.5 x 10N K2.5 x 10P K2.5 x 10G | Nylon, polypropylene, EPDM Polypropylene, polypropylene, EPDM Glass, polypropylene, EPDM | 1" x 2.5" x 10" | 88-3245 88-3246 88-3247 |
| K4 x 11N K4 x 11P K4 x 11G | Nylon, 304 stainless steel, Buna-N Polypropylene, 304 stainless steel, Buna-N Glass, 304 stainless steel, Buna-N | 1.8" x 4" x 11" | 88-3248 88-3249 88-3250 |
| K6 x 11NPP | Nylon, Polypropylene, Buna-N | 3" x 6" x 11" | 88-0816 |

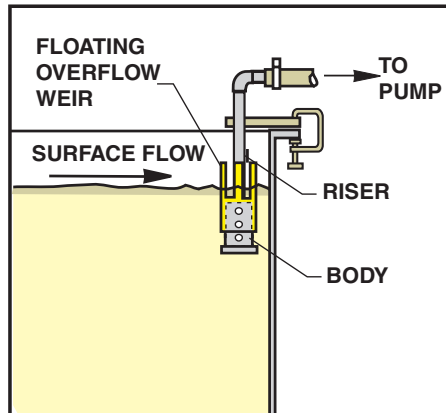
* Viton® end caps (4 x 11 size only). Minimum order carton quantity. Add -V to Model and Price Code Number.
Note: Carton quantity: 25 of 10", 10 of 11".



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 polypropylene floating weir.
- To select skimmer:
 1. Determine tank liquid level differential
This will minimize dry pump operation.
 2. Use skim rate as guideline for sizing

| MODEL NUMBER | LIQUID LEVEL DIFFERENTIAL | SKIM RATE GPH | CULET HOSE CONN. | RISER | BRACKET | PRICE CODE NO. |
|--------------|---------------------------|---------------|------------------|--------|------------|----------------|
| | | | | LENGTH | 1/2" THICK | |
| 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.