



Influent enters through a headbox and is evenly distributed over the length of the cylinder



Energy efficient gravity separation operation

Slant Rib Coalescing Oil/ Water Separator

For minimum space and maximum separation efficiency

The Parkson Model SRC has become the industry standard oil/water separator for flows from 2 to 1200 GPM in a single tank with custom designs for larger flows. The slant rib coalescing design is the separator most often specified because of its compactness, reliability and throughput. The SRC removes free, non-emulsified oil and settleable solids to produce an effluent with 10 mg/l of oil droplets 20 micron or larger.

The heart of the system is the separation chamber with an oleophilic slant-rib coalescing pack. Before the influent reaches the separation chamber, it is directed through a non-clogging diffuser that distributes flow evenly and allows large solids to drop out. As the liquid travels through the slant rib media pack, droplets adhere to the ribbed pack and merge with other droplets creating larger oil droplets that break free and rise rapidly to the surface. The design of the media pack and the oil attracting characteristics of the PVC media ensure the highest degree of surface contact and coalescing efficiency.

The separated oil accumulates at the surface of the separation chamber where it displaces the water. As the oil layer increases, oil spills over a weir into an oil reservoir and flows by gravity or can be pumped to storage tanks. Solids are also removed in the slant rib media pack. The 55° angle of inclination of the ribs is optimal for solids settling. As the solids slide from rib to rib, they gather mass and velocity until they drop off into the sludge chamber located directly beneath the separation chamber. The sides of the sludge chamber are sloped 45° to facilitate complete sludge removal.

After the oil and solids have been removed, the water flows under an oil retention baffle, and then over an adjustable weir into the clean water effluent chamber. The water is discharged by gravity through a single flanged connection. This model can handle twice the volume in 20% the length of comparably rated gravity separators.

Design Options

- Coalescing media of polypropylene, PVC, HPVC and stainless steel
- Dense coalescing pack
- Recovered oil pump-out system
- Sludge pump-out system
- Heaters for freeze protection
- Inspection hatches
- Liquid level alarm signals
- Sludge removal auger

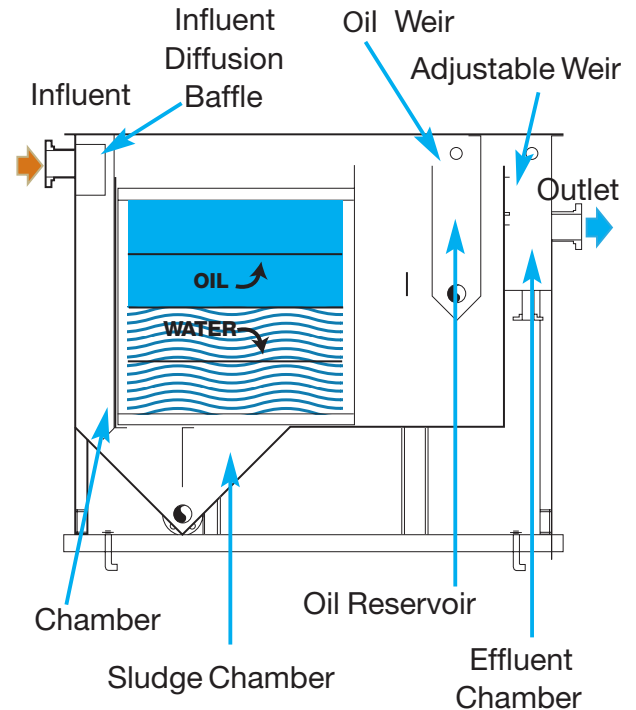
Features

- Handles twice the volume in 20% the length of comparably sized gravity settlers
- Coalescing ribs angled 55° to maximize solids settling
- Efficient coalescing action removes smaller oil droplets
- Tank and slant rib coalescing pack maximize separation and removal of oil and solids
- Energy efficient gravity separation operation
- Special baffle system controls flow and minimizes surges for more reliable separation
- Sloped sludge chamber for complete sludge removal
- Design flexibility: customized to site-specific requirements

Applications

- Industrial effluent treatment
- Oil and water reclamation
- Wash and rinse tanks
- Cooling towers
- Groundwater
- Metals processing
- Compressor condensate
- Oil removal for machine coolant
- Stormwater runoff

Parkson Model SRC Oil/Water Separator - Principles of Operation



Specifications

(Dimensions in inches)			
Model Number	Length (A)	Width (B)	Height (C)
SRC15	97	38	49
SRC30	97	38	62
SRC50	109	38	75
SRC100	109	50	93
SRC150	109	74	93
SRC200	109	87	93
SRC250	109	111	93
SRC300	109	123	93
SRC300S	134	87	91
SRC400	173	87	93
SRC500	173	111	93
SRC600	173	123	93
SRC800	210	87	132
SRC1000	210	111	132
SRC1200	210	147	132

Dimensions are approximate, with flange to flange measurements. Treatment options for larger flows are also available.



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