



## Liquid/Liquid Coalescer Technology Available as a Rental Skid: Simplex 37 Element Coalescer Skid (Skid can be converted to a filter)

### Description

For more than 70 years Pall Corporation has been solving complex contamination problems across the refining, petrochemical and oil and gas industries. **By applying our advanced filtration and separation technologies** directly to the problem, we're able to help operators reduce maintenance costs and minimize unscheduled shutdowns. Pall proprietary polymeric coalescers **efficiently break stable emulsions**. Common applications include water from refinery fuels, caustic from fuels, hydrocarbon from rich amine or sour water.

### Features

- Flow capacity up to 672 m<sup>3</sup>/hr (2960 USGPM) (101,000 bbl/day) depending on viscosity and fluid densities. Contact Pall to discuss your specific application.
- Fully valved and piped on skid (inlet/outlet, clean and dirty side vents and drains)
- Inlet/outlet connections on both sides of skid to allow field piping options. Optional outlet on top of vessel.
- Spare ports for vessel flushing and PSV connections
- Local differential pressure gauge
- Davited full-open closures
- Integrated, valved fluid sampling panel for influent and effluent samples
- Complies with most refinery mechanical specifications
- NACE compliant for sour service
- Lifting points at four corners of the skid
- Fork lift pockets for portability
- The frame on all skids is totally boxed in on all sides and bottom to provide spill containment



37-Around Simplex High Flow coalescer rental skid (side view)

### Design Specifications<sup>2</sup>

- Mobile skid dimensions (L x W x H): 7.08 m (279 in) x 2.11 m (83 in) x 2.23 m (87.7 in)  
Can be shipped via standard flatbed truck.
- Skid Weight: Dry – 6,956 kg (15,335 lbs), Full of water – 9,457 kg (20,850 lbs)
- Vessel design: ASME Code, Section VIII, Div. 1 with CRN for Canada; 31 bar (450 psig) and FV @ 149°C (300°F)
- National Board Number
- Piping design: ASME B31.3 Process Piping Code for 31.03 bar (450 psig) @ 149°C (300°F)
- MDMT -40°F
- Coalescer vessel: one each, Pall horizontal liquid/liquid coalescer. Accepts 37, 9.53 cm (3.75 in) diameter x 101.6 cm (40 in) elements per vessel
- Inlet/outlet: 25.4 cm (10 in), 136.08 kg (300 lbs), equipped with full port gate valves
- Upper and lower sumps with magnetic level gauges are available.

<sup>1</sup> Pictures shown are for illustrative purposes only. Actual product may vary due to product enhancement.

<sup>2</sup> For complete details, request a design package.

## Materials of Construction

- Skid base: carbon steel (hot dip galvanized)
- Filter vessels and piping: carbon steel, primed and epoxy coated
- Inlet/outlet valves: 300 lb, OS&Y, 316 stainless steel flexible wedge, full-port gate style
- Housing closure gaskets: 304 SS inner ring and CS outer ring/Grafoil<sup>3</sup>

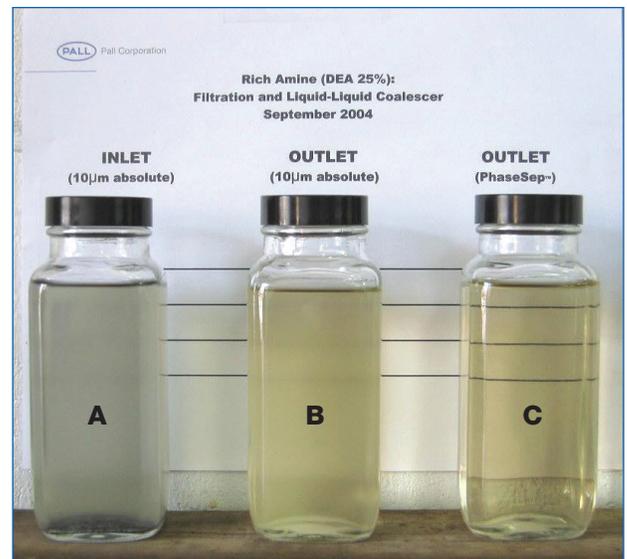
## Applications

- Remove water from refinery fuels including LPG and gas oil
- Remove hydrocarbon from sour water or rich amine
- Remove caustic from refinery fuels
- Can be operated as a water washer
- Will accept the following Pall coalescer technologies: PhaseSep®, PhaseSep HE, AquaSep® Plus, AquaSep XS, AquaSep EL
- Remove water from fuels to protect catalyst beds.
- Remove water from steam stripped diesel.

<sup>3</sup> Grafoil is a registered trademark of Grafftech International



37-Around Simplex High Flow coalescer rental skid (closure view)<sup>1</sup>



A: Rich-amine sample at the outlet of the flash tank.  
B: Rich-amine sample following 10 µm (Beta 5000) filtration.  
C: L/L coalescer outlet sample – clear and bright after a single pass through the PhaseSep® L/L coalescer.

Protect. Renew. Optimize.



For immediate assistance, please contact  
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