



Pall Corporation

Pall PRO Services

## High Flow Filtration Technology Available as a Rental Skid: Simplex 19 Element Filter Skid

### 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. Our High Flow filtration platforms are proven to **efficiently and reliably filter contaminants from a wide variety of process and product streams**, which can cause a multitude of costly operational and fluid quality problems.

### Features

- Maximum hydraulic flow capacity of 2158 m<sup>3</sup>/hr (9500 USGPM) (325,000 bbl/day)
- 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 closure
- 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



19-Around Simplex High Flow filter rental skid (side view)<sup>1</sup>

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

- Mobile skid dimensions (L x W x H): 4.55 m (179 in) x 2.11 m (83 in) x 2.23 m (87.7 in)  
Can be shipped via standard flatbed truck.
- Skid Weight: Dry – 5686 kg (12,535 lbs),  
Full of water – 8181 kg (18,035 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
- Filter vessel: one each, Pall Ultipleat® High Flow. Accepts 19, 15.24 cm (6 in) diameter x 152.4 cm (60 in) elements per vessel
- Valving: 25.4 cm (10 in), 136.08 kg (300 lb), equipped with full port gate valves
- Inlet/outlet: 10 in 300 lb RFWN flange

<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 particulate contamination from:
  - feedstocks to protect catalytic reactor beds
  - LPG, gasoline, diesel, and jet fuel final products
  - many other contaminated products that can be found in a variety of storage tanks in a plant
  - amine (rich and lean)
  - aromatic extraction solvents
  - dehydration solvents
  - sour water
  - make-up water
- Prefiltration for liquid/liquid separations

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



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



60 in Ultipleat High Flow filter element

Protect. Renew. Optimize.



For immediate assistance, please contact  
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