

SafeDEflo™ C600 Plate & Frame DE Package

FILTRATION EQUIPMENT

Overview

TETRA SafeDEflo™ Compact 600 plate and frame diatomaceous earth (DE) filtration package is designed to filter brines, chemicals, and produced water in completion, stimulation, and workover operations. The SafeDEflo C600 package is recommended for well volumes up to 500 barrels when higher flow rates and a more compact unit is needed.

SafeDEflo UDW systems are sized to offer flow rates between 8 and 10 bbl/min, while offering optimal hydraulic filtration performance. Actual field performance may vary due to brine composition, density and solids type and concentration.

Our SafeDEflo filtration packages include the following: filter press, auxiliary skid, diesel driven centrifugal pump, and 200 feet of hose with connections and guard filter. All of the SafeDEflo filtration equipment is skid mounted. The presses all have blowdown capability, stainless steel manifolds, and gasketed plates. Additionally, they allow manual override of the hydraulics system.

System Advantages

- Multiple components provide configuration flexibility, allowing most efficient use of rig space
- Can be used on smaller rigs
- Can supply higher flow rates due to inline manifold system
- Four corner discharge plates
- 1,200 mm plates versus 1,000 mm plates to allow for a more compact unit
- More economical (lower day rate) than larger units

Equipment Specification Information

Unit Size	600 sq ft
Flow Rate	8 to 10 bbl/min
Density Range	8.4 to 12.5 lb/gal
Footprint (L x W)	16 ft x 15 ft





Compact 600 Square Foot Plate and Frame DE Package

Filter Unit			
Length:	10.58 ft	Filter Area:	600 sq ft
Width:	5.25 ft	Maximum Net Filter Volume:	29.9 cu ft
Height:	7.0 ft	Plate Size:	1,200 mm
Weight:	12,000 lbs	Maximum Differential Pressure:	80 psi

Precoat/Body Feed Unit			
Length:	6.5 ft	Weight:	4,000 lbs
Width:	5.25 ft	Precoat Tank:	10 bbls
Height:	7.0 ft	Body Feed Tank:	6 bbls

Pump Skid			
Length:	8.33 ft	Discharge:	4 in
Width:	4.08 ft	Suction:	4 in
Height:	6.25 ft	Power:	100 hp with air start
Weight:	3,800 lbs	Maximum Operating Pressure:	125 psi

Guard Unit (Dual Pod, Parallel Operation)			
Length:	5.3 ft	Maximum # of Cartridges:	64
Width:	4.5 ft	Cartridge Length:	40 in
Height:	5.5 ft	Net Filter Area:	1,408 sq ft
Weight:	1,500 lbs		

SafeDEflo Package Operational Requirements			
All TETRA SafeDEflo Packages require 120 cfm at 100 psi.			

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