

# SafeDEflo™ 1100 Plate & Frame DE Package

## FILTRATION EQUIPMENT

### Overview

TETRA's SafeDEflo™ 1100 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 1100 package is recommended for well volumes greater than 500 barrels.

For added convenience and enhanced safety, The TETRA SafeDEflo automated DE delivery system is available for use with our SafeDEflo 1100 plate and frame filtration units.

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
- Utilizes approximately the same space as an 800 square foot unit
- Is stackable

### Equipment Specification Information

Unit Size	1,100 sq ft
Flow Rate	8 to 12 bbl/min
Density Range	8.4 to 14.5 lb/gal
Footprint (L x W)	24 ft x 15 ft

### Optional SafeDEflo Automated DE Delivery System

- Automated dispensing system with precision control panel
- Six (6) preloaded intermediate bulk carriers, each containing 1,000 pounds of DE material





## 1,100 Square Foot Plate and Frame DE Package

Filter Unit			
Length:	16.0 ft	Filter Area:	1,100 sq ft
Width:	5.25 ft	Maximum Net Filter Volume:	40 cu ft
Height:	7.0 ft	Plate Size:	1,200 mm
Weight:	18,000 lbs	Maximum Differential Pressure:	100 psi

Precoat/Body Feed Unit			
Length:	8.0 ft	Weight:	3,800 lbs
Width:	6.5 ft	Precoat Tank:	10 bbls
Height:	7.75 ft	Body Feed Tank:	10 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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