BELGIN

ClearWave 40[™] Containerized Dewatering System

System Features



Dedicated Polymer Tanks with Top Mounted Agitators and Injection Pumps



Exterior Screw Conveyor for Solids Discharge



Cabinet Enclosure with Integrated Touch Screen Human Machine Interface (HMI)



Dedicated Progressive Cavity Feed Pump

As industry environmental regulations continue to become more stringent, having the right solids control and dewatering equipment has become vital to operations. Dewatering presents a great deal of benefits and advantages. One such benefit includes discharge compliance, in which many cases result in a "zero-discharge" or "closed-loop system." In addition, the importance of recovering oil from waste is vital to maximizing profits. With the correct combination of chemicals, effective removal of solids, while recovering high guality oil and water, can be achieved.



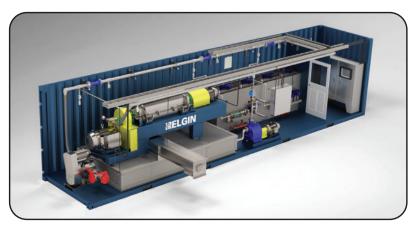
Dewatering also maximizes drilling fluid recovery, ultimately lowering overall mud costs as well as disposal and transportation expenses. Furthermore, these systems improve rate of penetration. With a "zero-discharge" or "closed-loop system," operations can operate without open pits, therefore reducing the location footprint and environmental impact.

For over 25 years, Elgin has been designing solids management and dewatering systems for the most demanding environments. With this experience, Elgin has designed a

variety of Containerized Dewatering Units. These units are designed with the customer in mind by being mobile and compact. Furthermore, they also incorporate sophisticated graphical user interfaces, chemical additive injection

systems, Apex 19FVFD™

decanter centrifuge, and in-line mixing systems. By utilizing proprietary polymer hydration



manifolds, the polymer enhanced flocculation of colloidal and ultra-fine drilled solids can be efficiently removed with a decanter centrifuge.

This versatile unit can be customized by our engineering team to meet any specific needs or challenges. It may be operated as a stand-alone device or can be incorporated as the cornerstone of a sophisticated closed-loop solids control and waste management treatment system. Systems can be climate controlled and insulated, upon request.

Natural Resource Recycling • Product Classification • Dewatering • Fluid Recovery Waste Management • Material Handling • Liquid/Solid Separation • Crushers • Feeders





ClearWave 40[™] Containerized Dewatering System



Apex 19FVFD[™] Centrifuge

Elgin's Apex 19FVFD™ is fitted with a NEMA premium, continuous duty, energy-efficient, poly-chain driven, 50 hp main drive. The 125 hp main drive can operate the centrifuge up to a maximum rotational speed of 3,100 rpm, thus, generating more than 2,600 G's of force.



Select Floc[™] **Polymer Conditioning** System (Optional)

By using existing equipment at the rig, the Select Floc[™] allows customers to optimize existing assets, while incorporating the advances of Elgin's polymer make-down and feed systems to createon-site dewatering.

Overview of Unit Features

- Compact design for small footprint.
- Progressive cavity centrifuge feed pump for homogonous feed.
- Apex 19FVFD[™] decanter centrifuge capable of producing 2,600 G's of force.
- 12" shafted screw conveyor for easy cuttings discharge.
- Easy to use VFD HMI control panel with proprietary touch screen interface. •
- Top mounted polymer tank agitators and PC injection pumps.
- Integrated plumbing to achieve hydration residence time.

Model Number:	ClearWave 40™	Apex 19FVFD™ Centrifuge	
Description:	40' HMI Containerized Dewatering Unit	Equipment Image:	BECON BECON
Length:	40' (12.14m)		
Width:	8′ (2.4m)	Maximum G-Force:	2,600
Height:	9.5′ (2.9m)	Maximum Speed:	3,100 rpm
Centrifuge (rpm / G′s):	Apex 19FVFD™ (3,100 / 2,600)	Capacity:	500 gpm (31.5 lps)
		Bowl Construction:	Stainless Steel
Coagulant Tank:	2 qty. 300 gallon (2,271 liters)	Bowl Diameter:	18.5″ (470 mm)
Flocculant Tank:	2 qty. 300 gallon (2,271 liters)	Bowl Length:	67″ (1,702 mm)
Dissolution / Transfer Tank:	1,500 gallon (5,678 liters)	Weight:	11,500 lbs (5,216 kgs)
Tank Agitators:	4 x 1 hp	Skid Dimensions:	186″ (4,724 mm) L x 50″ (1,270 mm) W x
Electrical:	380V / 50Hz or 460V / 60Hz – 3 Phase	Gearbox Ratio:	62′′ (1,574 mm) H 80:1

Chemically Enhanced Mechanical Separation

By combining expertise in both dewatering polymers and solid/liquid separation technologies, Elgin has developed an organization capable of providing complex chemically-enhanced mechanical separation solutions. As a service oriented organization, Elgin's focus is on providing timely value. This value is further enhanced when customers take advantage of Elgin's integration, modularization, and customization capabilities. Elgin will continue to be an industry leader in bringing mobile and/or modular turn-key solutions to the industry's toughest fluid management problems.

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