



## Elgin Separation<sup>™</sup> CentriVac 800/1400<sup>™</sup> Centrifugal Degasser



Today's operators are faced with a myriad of problems when working with drilling fluids. One common problem is when fluids are exposed to gas at high pressures in the hole. The gas dissolves into the liquid portion of the fluid. As the fluid returns to the surface, the pressure decreases and the gas forms tiny bubbles in the fluid. When the fluid is returned back into operations, problems can occur affecting centrifugal pump operations, fluid weight measuring and potentially cause a blowout.

Astec's turn-key CentriVac 800/1400<sup>™</sup> centrifugal degasser solution solves real problems operators face when these problems are encountered. Functioning as a combination centrifugal pump and centrifuge, the centrifugal degasser removes the entrained gas from the fluid prior to being returned into operation. The fluid is pumped into the degasser and spread into a thin layer and subjected to centrifugal force. This increases the buoyant force on the tiny gas bubbles as they migrate to the center of rotation. When they reach the surface of the mud, they pop and become free gas.

The onboard blower assembly collects the gas and discharges it via the discharge piping. A manifold assembly connected to the blower allows for vacuum relief and prevents the fluid from being drawn into the blower. The processed fluid is discharged via the outlet piping.

### Features & Benefits

- Accepts any drilling fluid weight or viscosity.
- Simple operation with low maintenance costs.
- In-tank alternative to traditional vacuum degasser installations.
- Minimizes the risk of dangerous blowouts.
- Removes entrained gasses, including H<sub>2</sub>S and corrosive oxygen.



## Elgin Separation™ CentriVac 800/1400™ Centrifugal Degasser

	CentriVac 800™	CentriVac 1400™
Estimated Dry Weight	1,928 lbs (874.5 kg)	3,080 lbs (1,397 kg)
Max. Liquid Throughput	800 gpm (50.5 lps)	1,420 gpm (90 lps)
Liquid Inlet Size	16 Inches (406mm)	20 Inches (508mm)
Liquid Outlet Size	6 Inches (152mm)	6 Inches (152mm)
Gas Outlet Size	2 Inches (51mm)	2 Inches (51mm)
Main Motor	25 hp (18 kW)	30 hp (22 kW)
Blower Motor	1.5 hp (1.1 kW)	1.5 hp (1.1 kW)
Degasser RPM	277 rpm	380 rpm
Vibration Level	Less Than 0.12 In/Sec	Less Than 0.12 In/Sec
Ambient Temperature	-30 °F to +131 °F	-30 °F to +131 °F
Control Panel	UL / CSA certified for Class I Groups BCD, Class I Zone 1 & 2 IIB+H2, Class II Groups EFG, Class III, Type 4 & 4X. Also, ATEX, IEC Ex, Ex d IIB+H2 Ex tD A21 IP66	



## ExtractVac 600/1200™ Vacuum Degasser

In addition to centrifugal degassers, Astec's turn-key vacuum degasser solution provides greater efficiency with increased surface area for gas removal. Multiple stacked plates spreads gas-cut fluid so that entrained gas bubbles are brought to the surface where deep corrugation provides turbulence giving maximum separation of gases from slurry.

Featuring explosion proof motor, pump and control system, the ExtractVac 600™ & ExtractVac 1200™ is durable and efficient in Class 1- Division 1 environments.