

Equipment Data Sheet: Alfa Laval Lynx 20 VFD

The Alpha Laval Lynx 20 VFD is a Variable Frequency Drive, High G Force mid size centrifuge best utilized for LGS removal.

Dimensions

Overall Dimensions & Weight	
Weight	2,399 kg (5,290 lbs.)
Length X	3,962 mm (156.00 in.)
Height Y	1,701.8 mm (67.00 in.)
Width Z	939.80 mm (37.00 in.)

Performances

G-Force & Feed Rate	
Max Design Speed	4,000 rpm
Max Operating Speed	3,300 rpm
Max G-Force	2,200 G @ 3,300 rpm
Hydraulic Capacity [TUV Certified]	50.00 m ³ /h (220 GPM)
Max Solids Discharge Rate	5 ton/hr.

Physical Data

Rotating Assembly	
Bowl Diameter (Internal)	355.6 mm (14.00 in.)
Bowl Length (Internal)	1,473.2 mm (58.00 in.)
Pond Setting	Variable Settings Capability
Bowl Material	Stainless Steel Duplex 316
Bushings Protection	Tungsten Carbide Solids Discharge Ports
Scroll Type	Helical - Radial
Scroll Pitch	130 mm (5.12 in.)
Scroll Angle	6°
Scroll Material	Stainless Steel
Flights Protection	Scroll Fitted with Tungsten Carbide Tiles
Pillow Block Bearings	Grease Lubricated - Manual
Internal Bearings	Grease Lubricated - Manual
Feed Tube	Open Ended – LGS Removal
Gearbox	
Type	Planetary Gearbox, Ratio 169:1
Max Output Torque	6,000 Nm (4,425 ft-lb)
Operating Differential	33-67 RPM

Physical Data

Drive & Operating System	
Voltage	400/460 Volt, 50/60 Hz, 3 Phase - Standard [690 Volt, 60 Hz, 3 Phase – Optional]
Main Drive Motor	50 HP
Back Drive Motor	30 HP
Control System	PLC (Programmable Logic Controller)
Drive System	VFD (Variable Frequency Drive)
Safety Features	
Safety Devices	Micro-switch on Vessel & Guards to Avoid Start-up While Servicing. Vibration Shut off Sensors
Display (Settings)	Bowl Speed, Differential Value, Feed Rate, Current Adsorbed
Automatic Safety System	Continuous Monitoring& Self Shutdown on All Cri tical Parameters , Automatic Control to Avoid Pack-off& Automatic Unplugging Procedure.
Certification	
Certification	Class I , Division I Hazardous Areas
Operating Temperature	0 +40°C (+32 +104 °F)
Storage Temperature	-20 +40°C (-4 +104 °F)
Process Fluid Temperature	Drilling Fluid: < 85°C (185°F)

Nozzle Schedule

Connection	
Feed Pipe	2” ANSI B 16.5 Welding Neck
Liquid Discharge	6 in. Victaulic