

The LF-2X80 centrifugal compressor with maximum working pressures up to 1,440 psi (100 Bara)



# LF-2X80



The Sundyne **LF-2X80** integrally geared multi-stage centrifugal process compressor utilizes our LF-2000 technology and experience to extend the LMC/BMC product line enabling greater flow, head, and horsepower capability.

- Flows to 6000 ACFM (10,200 Am<sup>3</sup>/hr)
- Max working pressure to 1440 psi (100 Bara)

The **LF-2X80** is available in one or two stage compressor configurations with standard skid packages to optimize price, footprint, and allow for easy field installation.

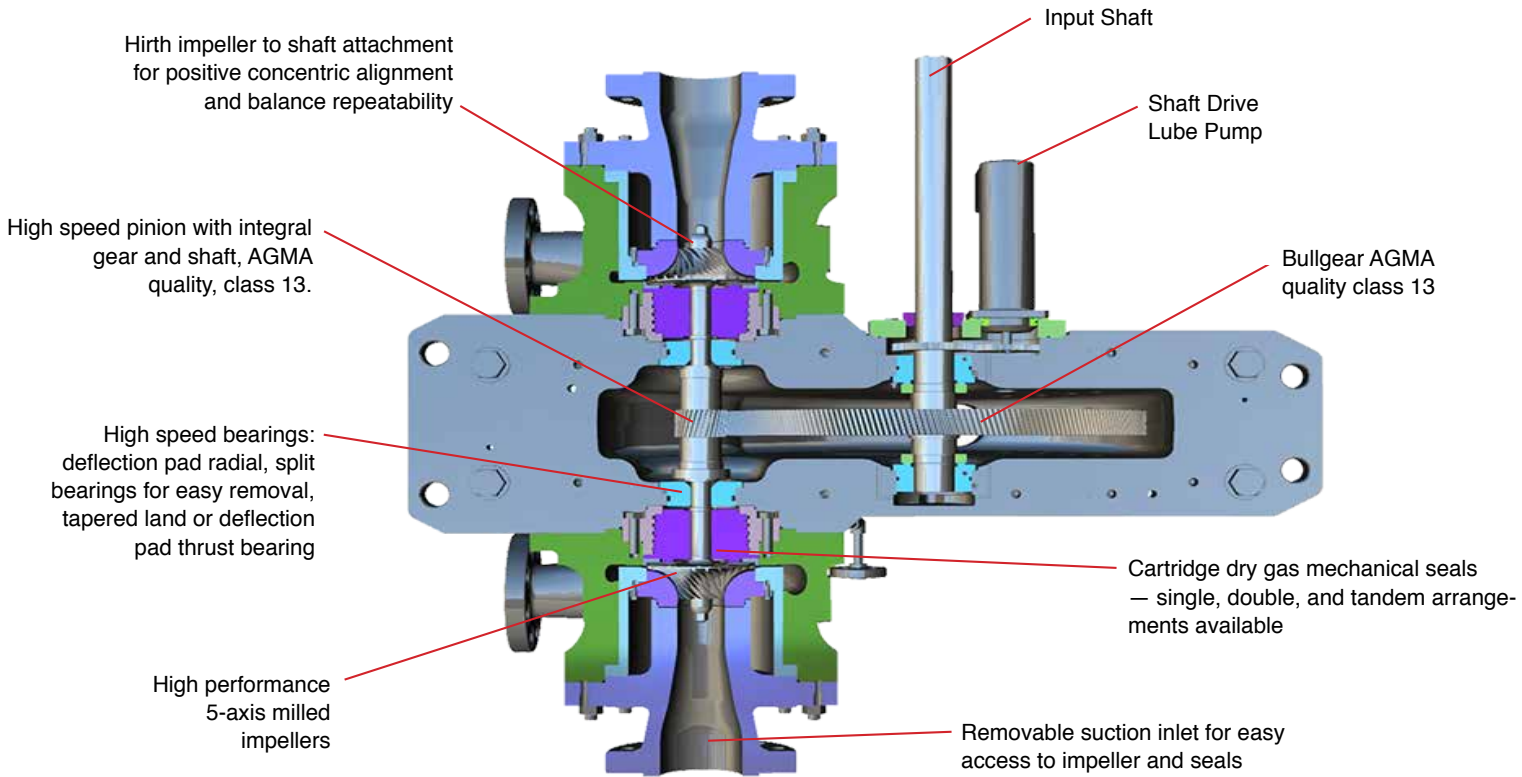
## Specifications

Maximum Flow	6,000 acfm	10,200 am <sup>3</sup> /hr
Maximum Speed	32,000 rpm-50Hz	
Maximum Working Pressure	1,440 psi	100 bara
Temperature Range	-200 to 500°F	-130 to 260°C
Maximum Motor Size	900 hp	670 kW
Hydro Test Pressure	1.5 times max working pressure	
Min Casing Thickness	1 in	25.4 mm
Corrosion Allowance	0.125 in	3.18 mm
Impeller Clearance	0.03 to 0.05in	0.76 to 1.27mm
Shaft Diameter at Bearings	1.5 - 2.0 in.	(38.1 - 50.8mm)
Mechanical Seal Sizes-Outboard...	2.3 in	58.4 mm
Mechanical Seal Sizes-Inboard	2.3 in	58.4 mm
Mounting	Horizontal	
Flanges	300, 600# ANSI RF standard	
Suction Flange	4 - 10 in	
Discharge Flange	3 - 10 in	
Minimum Gearbox Starting Temp	32 degrees F (0 degrees C) with approved synthetic oil	
Gearbox Lubricant	ISO VG-32 General Purpose Oil	
Gearbox Sump Capacity	100 Gal	
Gearbox Lube System	Pressurized	
Gears	Hardened and Precision Ground Helical	
Output Bearings	Deflection Pad	
Coupling	Spacer Type Disc Coupling	
Gear Quality	AGMA 2015-A4 (AGMA Class 13)	
Shaft Drive Lube Pump	3 Screw Positive Displacement	
Process Seals	Cartridge-Single, Double, Tandem, Tandem with intermediate labyrinth	
Input Seal	Bearing isolator type	
Input Bearings	Journal	
Materials of Construction	Gearbox Housing: Carbon Steel; High Speed Shaft with Integral Pinion: AMS 6260, 6265; Input Shaft: AISI 4340; Gears: Bull Gear - Nitrided Steel; Gears: Pinion - Carburized Steel.	
Low Speed Bearings:	Radial Journal / Tapered Land Thrust	
High Speed Bearings:	Deflection Pad Journal; Thrust - Tapered Land, Tilt-Pad, Hydrostatic	

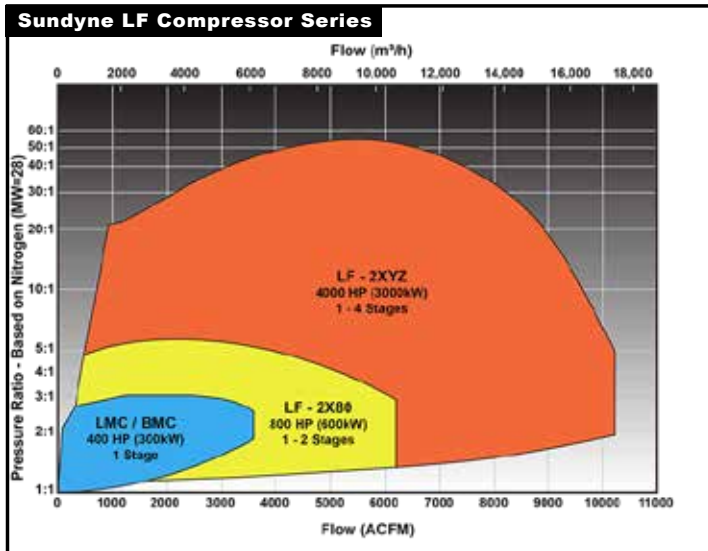
## APPLICATIONS

- Gas Production
- Ethylene
- Chemical Transfer
- Chemical Processing
- Nitrogen
- Power Generation
- Gas Boost





## PERFORMANCE



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