INDUSTRIES: SERVED

OIL & GAS

POWER GENERATION

GENERAL INDUSTRY

DULP & PAPER

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





The Sundyne **LF-2X80** integrally geared multistage 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 Am³/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.

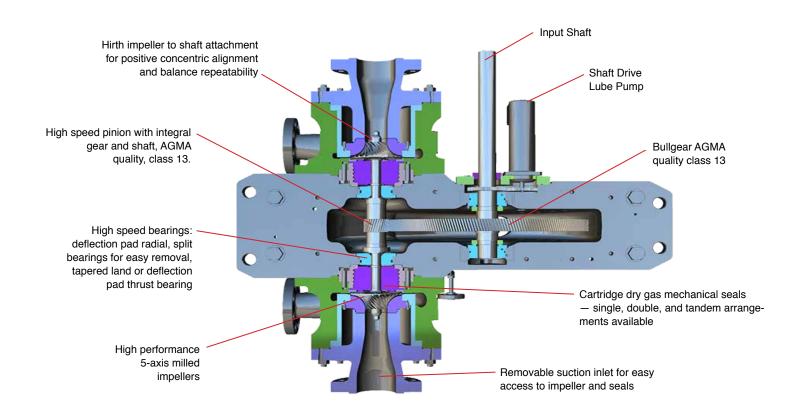
Specifications

| Maximum Flow | 6,000 acfm | 10,200 am³/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 | |
| ligh Speed Bearings: Deflection Pad Journal; | | |
| | Thrust - Tapered Land, Tilt-Pad, Hyd | rostatic |

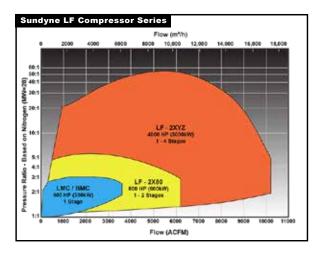
APPLICATIONS

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





PERFORMANCE



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