



## API 617, Multi-Stage Centrifugal Integrally Geared Compressor

## LF-2000



The **LF-2000** is a one to four stage centrifugal integrally geared API-617 compressor, which can deliver:

- Flows to 10,000 ACFM (17,000 AM<sup>3</sup>/hr)
- Max working pressure 4,000 psia (350 bar)

Sundyne compressors are ideal for heavy-duty service in gas processing applications including refining, petro-chemical, power generation, polysilicon and mining.

**APPLICATIONS**

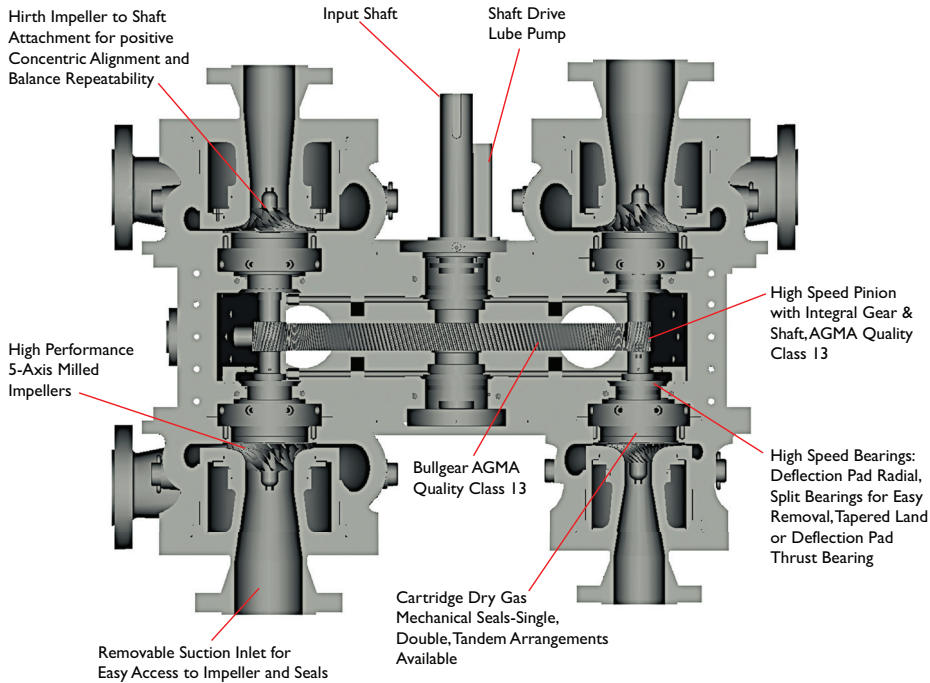
- Natural Gas Extraction
- Ethylene
- Hydrocarbon Processing
- Flue Gas Desulphurization
- Gasification

**Specifications**

Maximum Flow	10,000 acfm	17,000 am <sup>3</sup> /hr
Maximum Speed	50,000 rpm - 60Hz	42,000 rpm - 50Hz
Maximum Working Pressure	4,000 psia	350 bar
Temperature Range	-200 to 500°F	-130 to 260°C
Maximum Motor Size	4,000 hp	2,983 kW
Hydro Test Pressure	1.5 Times Maximum Working Pressure	
Min Casing Thickness	1 in	25.4 mm
Corrosion Allowance	0.125 in	3.18 mm
Impeller Clearance	0.03 to 0.05 in	.76 to 1.27 mm
Shaft Diameter at Bearings	1.5in (38.1 mm)	2.0 in (50.8 mm)
Mechanical Seal Sizes-Outboard...	2.3 in	58.4 mm
Mechanical Seal Sizes-Inboard	2.3 in	58.4 mm
Mounting	Horizontal	
Flanges	150#, 300#, 600# ANSI RF standard, other ratings available	
Suction Flange	3 - 14 in	
Discharge Flange	2 - 12 in	
Gearbox Oil Temp Range (normal...)	120 to 180°F	49 to 82°C
Minimum Gearbox Starting Temp	32°F (0°C) with light turbine oil - lower with approved synthetic oil	
Gearbox Lubricant	ISO VG-32 General Purpose Oil	
Gearbox Sump Capacity	Per API 614	
Gearbox Lube System	Pressurized	
Gears	Hardened and precision ground, helical	
Input and Idler Bearings	Journal	
Output Bearings	Deflection Pad	
Coupling	Spacer Type	
Materials of Construction	Castings (carbon steel, stainless steel); Impeller (17-4PHSS, Titanium)	

**OTHER SUNDYNE COMPRESSOR PRODUCTS INCLUDE:**

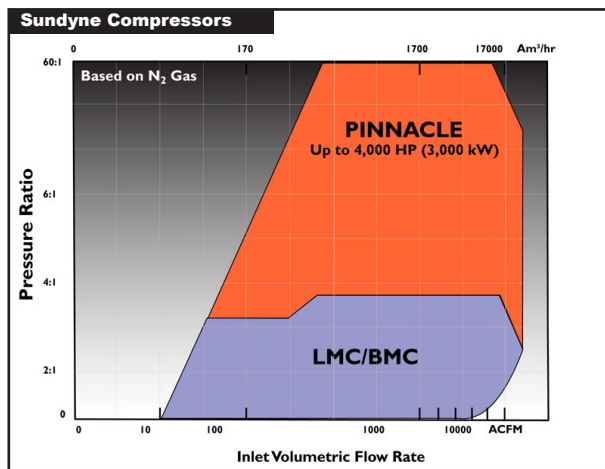
- Sundyne Single-Stage Compressors
- Line Mounted Compressor (LMC-3XX) Series
- Base Mounted Compressor (BMC-3XX) Series
- Pinnacle Multi-Stage Compressors



## APPLICATIONS (cont.)

- Power Generation
- Evaporators
- Gas Production
- Chemical Transfer
- Regeneration
- Gas Boost
- General Processing Industry
- Hydrogen
- Corrosive Gases
- Acetylene
- OEM
- Petroleum Production and Refining
- Atomizing Air
- Vapor Recovery
- Natural Gas
- Chemical Processing
- Pipeline Booster
- Recycle
- Acetic Acid
- Polypropylene
- Chlorine

## PERFORMANCE



Sundyne is one of the original developers of the API centrifugal compressor. Built to API-617/614 compliance, our flagship LF-2000 compressor delivers oil and pulsation free flow in an economical footprint. In fact, the LF-2000's multi-stage design is so efficient that it provides the same performance as larger multi-stage, piston-driven positive displacement compressors.



Visit our website at: [www.sundyne.com](http://www.sundyne.com)

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