

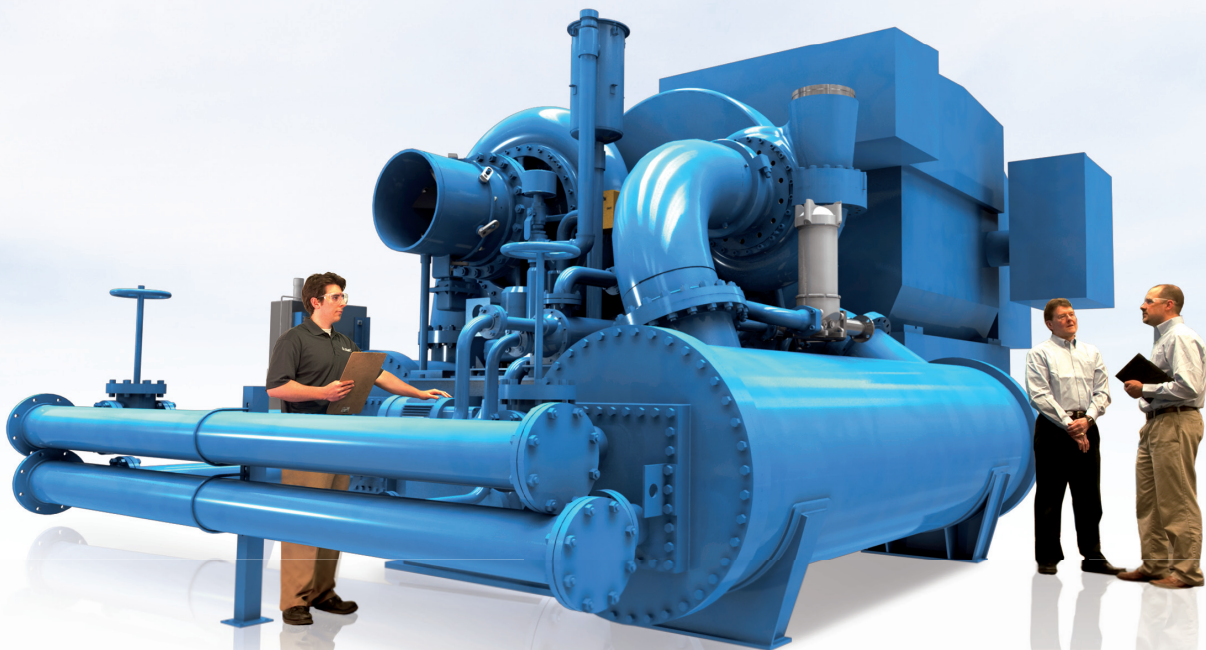
Introducing
PAP PLUS[®] EH
Air Compressors



Oil Free Air: The Next Generation

Building on a 50-year history of excellence, the new PAP Plus® EH centrifugal compressor includes innovations that make it ideal for a broad range of industrial air, engineered air, and air separation applications.

As an extension of the PAP Plus line, the EH model gives you all the benefits that have made PAP Plus compressors an industry leader—exceptional reliability, high performance, ease of ownership, and exacting customization options. PAP Plus EH compressors augment these features with higher flow ranges, greater horsepower, and maximum design flexibility to meet varied global industry needs as well as local code and packaging requirements.



High-Efficiency Aerodynamic Staging

- Increased aerodynamic efficiency to world class levels and above
- Wide operating ranges while maintaining high efficiency levels

Seal design (REDUCES LEAKAGE)

- Rub tolerant seal design with very low leakage and high reliability

Impeller Attachment

- Impellers are shrunk on at the factory for an indestructible joint which is designed for infinite life
- With this simple design, rotor stability, balance and robustness are key attributes

Rider Ring

- Rider ring reduces power loss & maximizes efficiency when compared to traditional thrust bearings
- High level of reliability with no soft material used for contact faces

Main oil pump

- Direct drive from bullgear

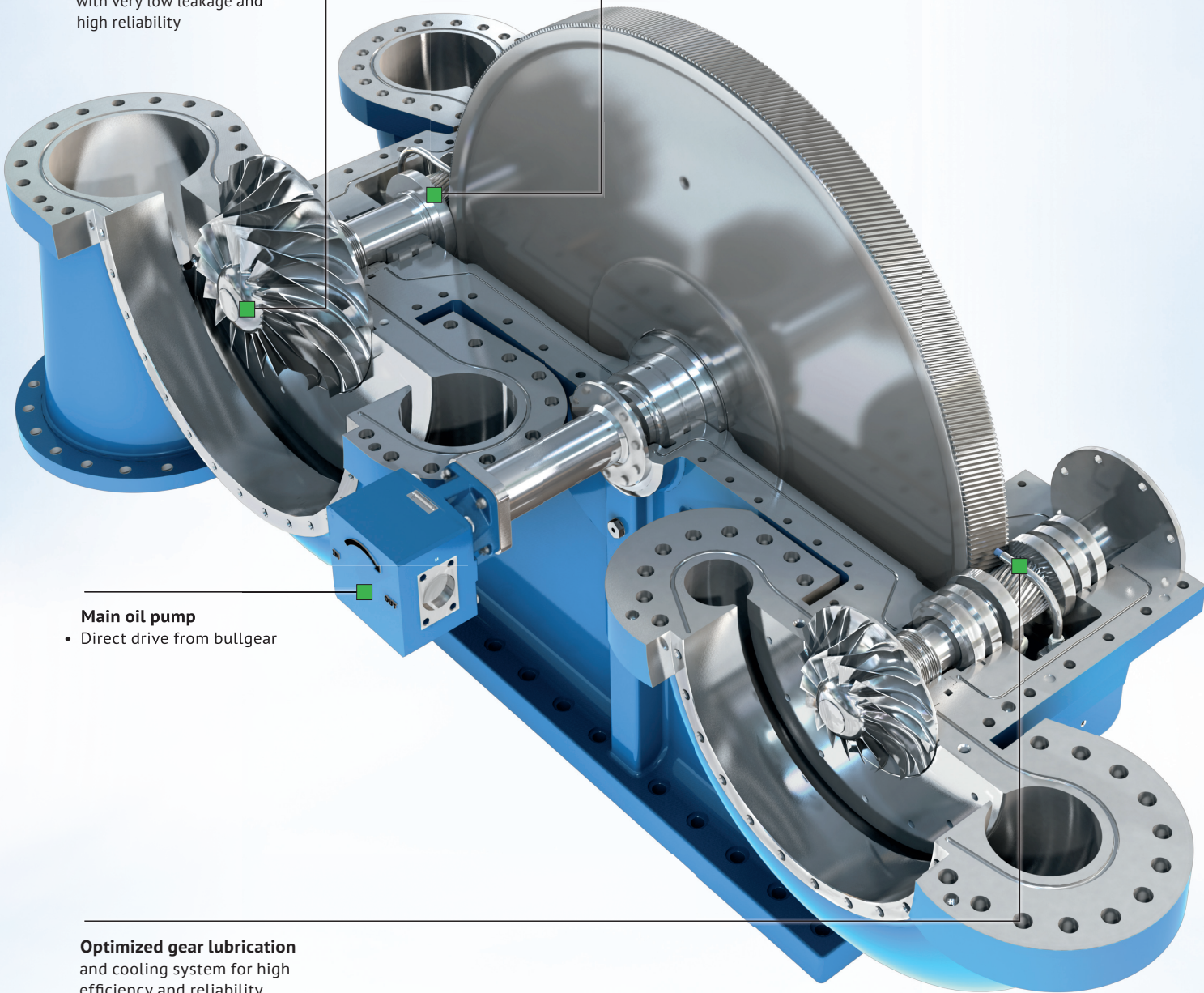
Optimized gear lubrication and cooling system for high efficiency and reliability

Smart package design packaging of compressor system is very flexible

- Modular design that can be shipped globally via standard containers
- Options include baseplate mounted full string

Additional features:

- No threaded oil connections all flanged—oil leak free
- All metric fasteners
- All custom tooling provided
- Asbestos free gaskets are used throughout
- Motorized oil mist eliminator eliminates need for seal buffer for operation and start-up



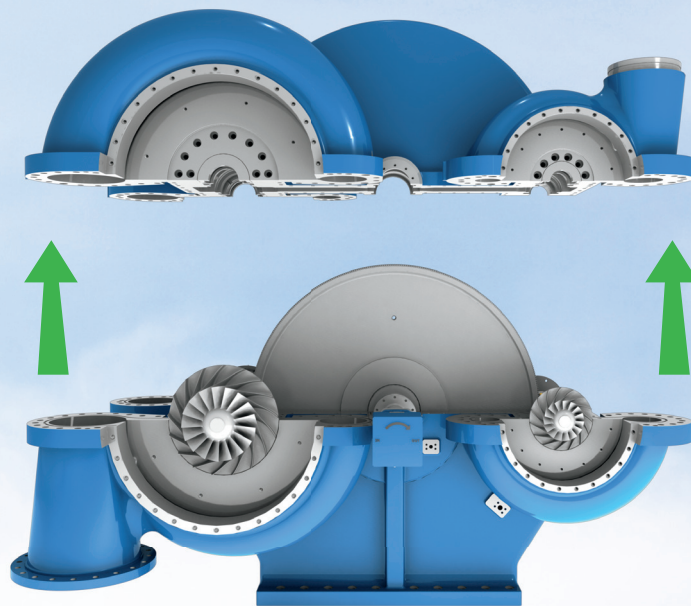
Unique, horizontal split casing allows for convenient, easy maintenance

- Maintenance does not require removal of impellers from rotors to remove rotors from compressor. Rotor assembly stays intact and in optimal balance condition.

- Horizontally split bearings and seals allow for quick maintenance without removal of the rotors.
- Inter-stage compressor piping does not need to be removed to access and remove the bearings, seals, or bullgear.
- No piping needs removed to access internals

Vibration Monitoring Options for Reliability

- Available with x+y lateral rotor vibration probes per stage
- + axial probes



Typical Applications

Industrial Air

Automotive
Food & Beverage
Mining
Pharmaceuticals
Power
Steel
Textiles

Engineered Air

Chemicals
Gas Transmission
Liquefied Natural Gas
Oil & Gas
Petrochemicals
Refining

Air Separation

Main Air Compressor (MAC)
Booster Air Compressor (BAC)
Nitrogen (N₂) Booster Compressor
Clean Dry Air (CDA)
Nitrogen (N₂) Feed
Nitrogen (N₂) Recycle
Combined services in one unit

By the Numbers

- Flow ranges of 15,000 to 24,500 ICFM (26,340 to 41,700 m³/hr) and 1,600 to 4,500 HP (1,200 to 3,400 kW)
- Available with 2 to 4 stages of compression. Operating pressures to 350psig (23.1 BarG)
- Meets API 672 standards along with API 613, API 614, API 617, API 670, API 671, API 677, and API 541; further customization is possible to accommodate more stringent customer specifications and special operating parameters



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Los Angeles, California, USA
Mangalore, India
Sao Paulo, Brazil
Shanghai, China
Taipei, Taiwan

Building on a 50-year tradition of excellence in compressor design and manufacturing, FS-Elliott brings our customers the resources of a global industry leader along with the convenience and responsiveness of local sales and service. Thousands of reliable, hard-working FS-Elliott compressors are installed worldwide.

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ISO 9001-certified for the design and manufacture of centrifugal compressors.

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