

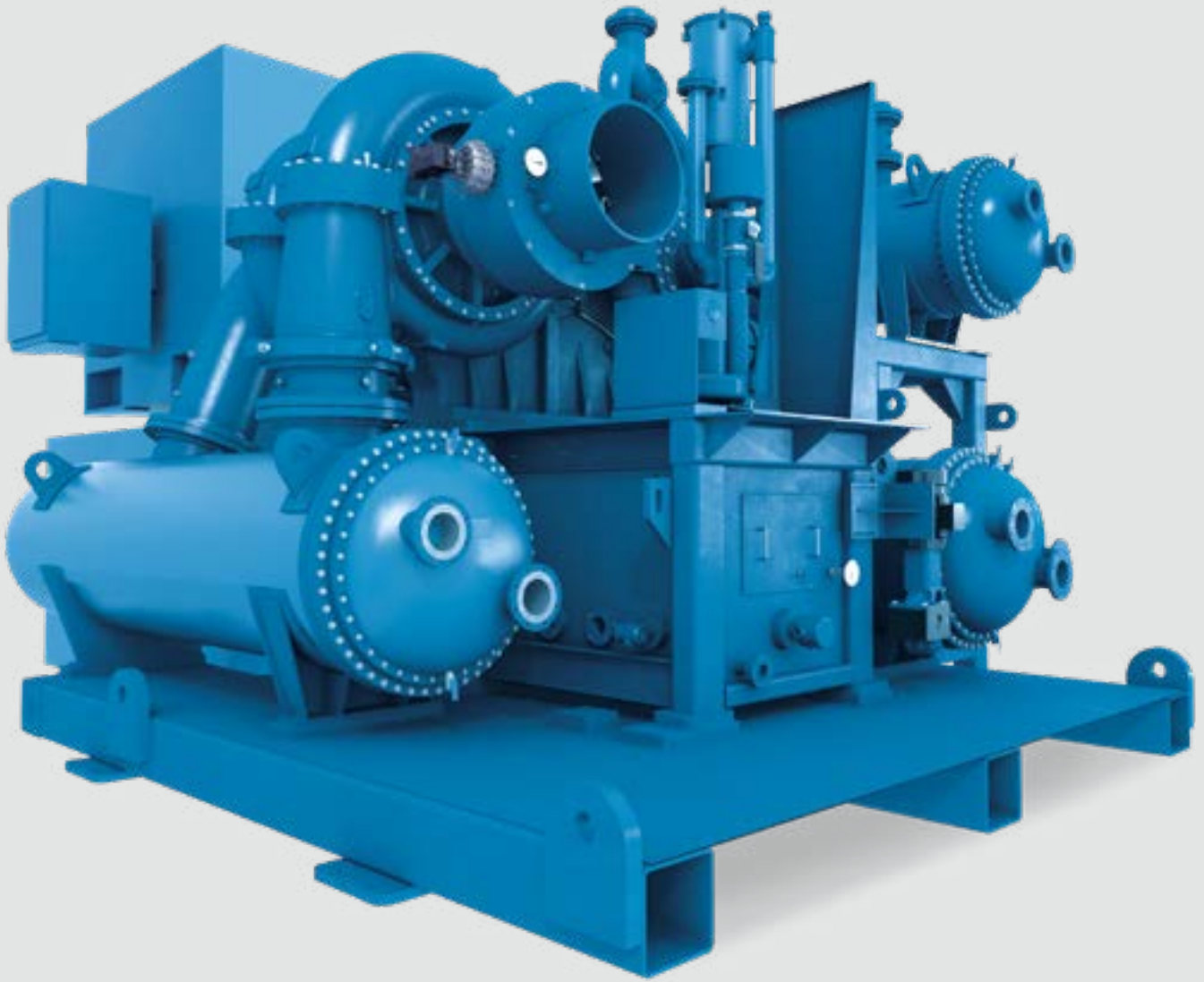


FSELLIOTT



AIR SEPARATION

SOLUTIONS



A HISTORY OF QUALITY

For over 60 years, FS-Elliott has grown and evolved into a global leader in the engineering and manufacturing of centrifugal compressors. Today, we are a world-class manufacturer focused on reliability, energy-efficient air solutions, and total customer satisfaction.

DEDICATED AIR SEPARATION BUSINESS UNIT

FS-Elliott has a dedicated team at the corporate office focused on the needs of air separation customers and applications. The dedicated Air Separation Business Unit is a single point of contact for customers, coordinating with various FSE departments including engineering, project execution, installation, service and aftermarket to ensure customer needs are met. FS-Elliott has over 250 air separation installations globally, with many more to come.

EFFICIENCY & SAVINGS

Looking for ways to improve efficiency and drive down costs? FS-Elliott understands air separation is an energy-intensive process, where efficiency is key. Every FS-Elliott compressor is customized specifically for your operational and environmental requirements to help reduce energy consumption. By offering superior operating life cycle costs, FS-Elliott compressors allow customers to quickly gain their return on investment.

PERFORMANCE TO MATCH YOUR NEEDS

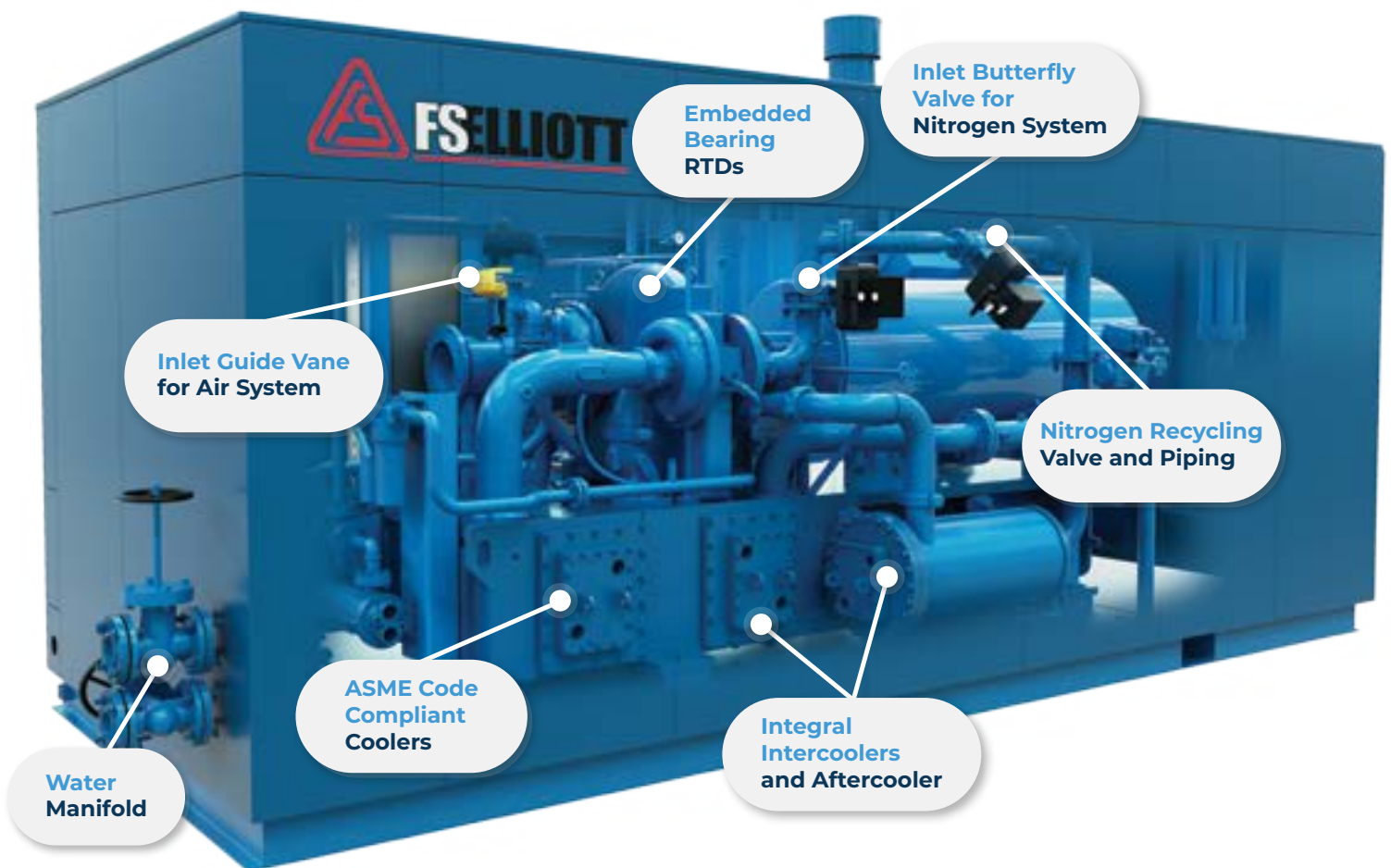
Our products cover a wide range of applications, including:

- Up to 4 stages of compression
- MAC (Main Air Compressors)
- BAC (Booster Air Compressors)
- BNC (Booster Nitrogen Compressors)
- GAN (Nitrogen Gas Compressors)
- Combination Units

FS-Elliott has the capability to provide custom process combinations, such as MAC/BAC, MAC/BNC, and MAC/GAN.

ON-SITE NITROGEN PRODUCTION

Our significant experience in on-site nitrogen production includes offering MAC, BAC, and GAN machines and combination units for dual processes. Over the years, we have worked with air separation industry leaders to design compact solutions for MAC/BAC and MAC/GAN applications, as well as highly customized compressor packages.



TYPICAL COMBINATION UNIT FOR NITROGEN PRODUCTION

MAIN AIR COMPRESSOR

FS-Elliott has delivered a large number of MAC units with higher flow capacity to satisfy requirements for the manufacture of electronics and semiconductors.

- Up to 24,500 CFM (695 m³/min)
- Up to 6,000 HP (4,475 kW)
- Up to 365 PSIG (25.2 BARG)
- 2 to 4 stages of compression available

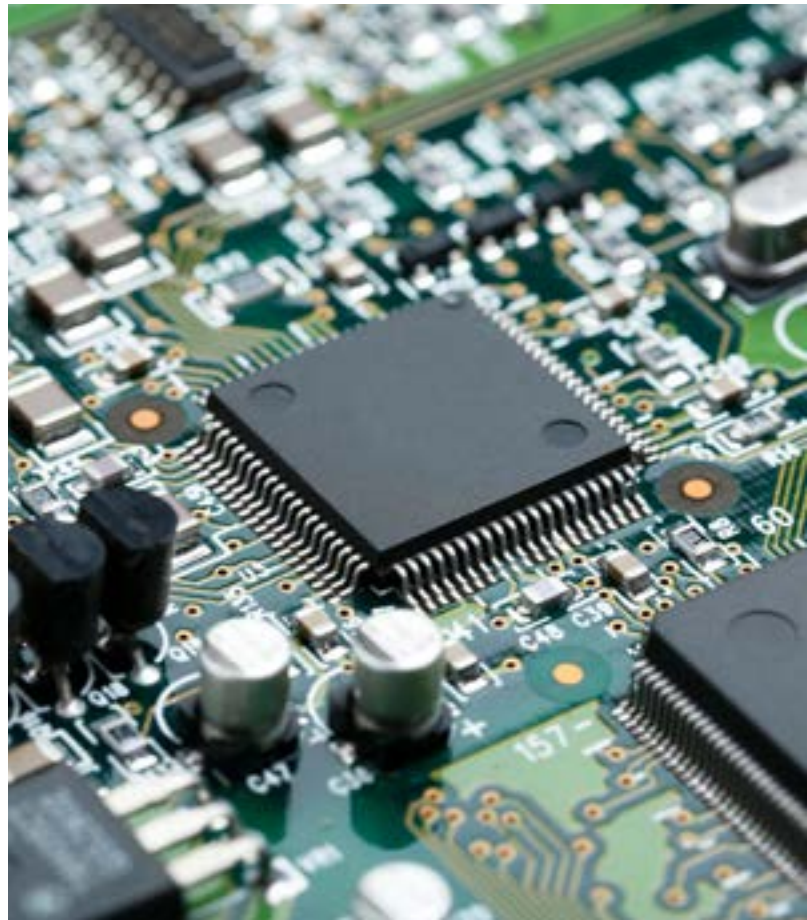
Higher flow ranges, greater horsepower, and maximum design flexibility to meet a variety of global industry needs. These units can also provide up to 4 stages of compression for better efficiency.

The MAC is the heart of the ASU; its efficient and reliable operation is critical to the success and viability of the ASU project. FS-Elliott's higher capacity compressors are designed specifically to fulfill the role of the MAC with optimized aerodynamic efficiency.

Flexible Package Design:

- Modular design that can be shipped globally via standard containers.
- Options include a base plate mounted compressor without a motor or a full base plate that allows compressor and motor mounting.
- Standard type package that can offer shorter delivery lead-times

Standard package to incorporate the majority of requirements for ASU customers and can comply with additional customization possible to account for site-specific requirements.



CONTROL PANEL BENEFITS

FS-Elliott's R2000 Control Panel comes equipped with features to improve energy efficiency, while meeting your basic to intermediate centrifugal compressor control needs.



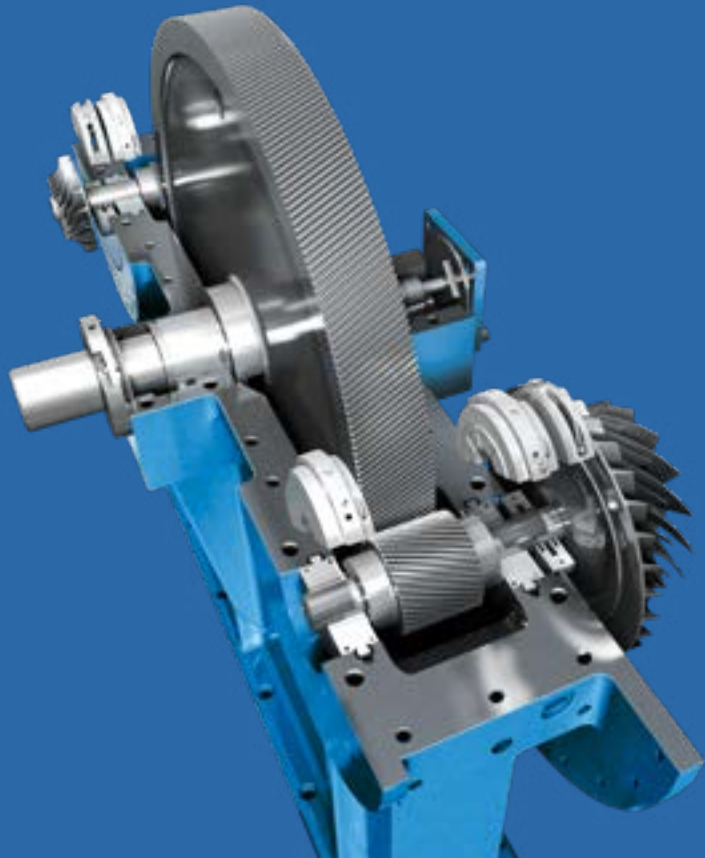
CONTROLS DEVELOPED SPECIFICALLY FOR AIR SEPARATION APPLICATIONS

- NEMA 4/IP66 Rated Enclosure
- 12" HMI w/ Color Touchscreen
- Siemens or Allen Bradley PLC
- Energy Advisor & Maintenance Notification
- Equipped with a Flexible PLC Based Solution
- Dual-Process Control
- Customer DCS Integration

There are also many optional upgrades available to fit your specific control needs.



FS-Elliott's remote monitoring feature, FS-Connect has been designed to give you visibility of the operational status of your FS-Elliott air compressor. This web-based connection is provided through a cellular 4G connection and provides you with easy access to monitoring and troubleshooting from the comfort of any remote location.



EASE OF MAINTENANCE

All FS-Elliott compressors are designed with maintenance in mind providing several benefits:

- Horizontal-split bearings and seals allow for quick maintenance without removal of rotors
- Interstage compressor piping does not need to be removed to access and remove the bearings, seals, or bull gear
- No piping needs to be removed to access the internals
- Entire airend can easily be removed for service/replacement
- Options for air and oil filters that can be changed with the unit still in operation

SERVICE & PACKAGING



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