

Cosmodyne's GFED Series: The world standard in packaged cryogenic air separation plants

GFED Series plants are designed and built to the highest standards of reliability and efficiency to meet the most severe operating conditions. Each plant is completely assembled, thoroughly inspected, and full performance tested under actual operating conditions prior to shipment to prove performance and assure the highest level of overall quality.

The modular design minimizes transportation and handling cost and allows rapid on-site installation. The plant is packaged for shipment in two 40' (12.2 meters) ISO containers. Once on site, it can normally be installed and commissioned within two days. The plant system is self-contained, can be completely installed outdoors, and requires only a simple foundation. All machinery is air cooled so power is the only utility.

Over 50 GFED plants are producing liquid oxygen and liquid nitrogen for medical, industrial, oil field, and military applications in some of the most remote corners of the world. Day after day they demonstrate the reliability that Cosmodyne has become renowned.

Each Cosmodyne system is designed and built to rigid standards of quality and workmanship developed from nearly a half century of experience. From proposal to installation, Cosmodyne sales, engineering, manufacturing, and field service personnel continually demonstrate a commitment to customer satisfaction. And this commitment doesn't end with delivery - Cosmodyne's field service staff is available 24 hours a day.

Standard Equipment and Features

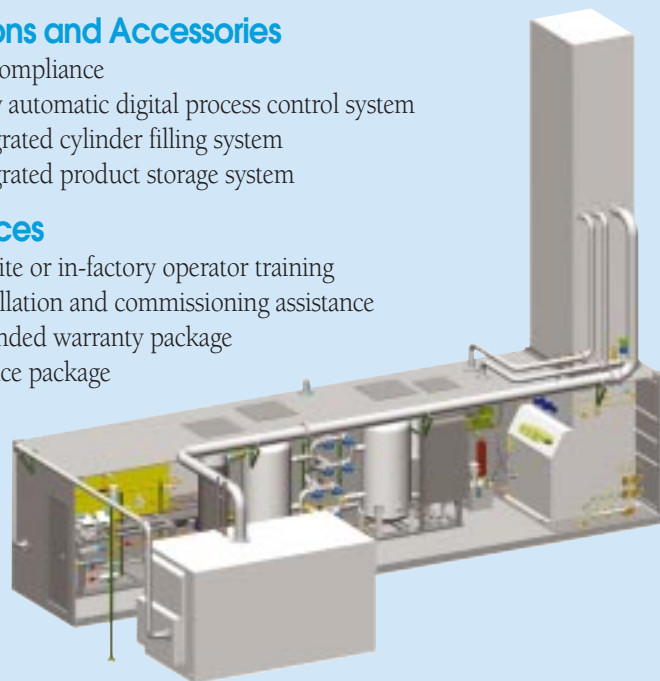
- High performance ACD turboexpander with cartridge style rotating element
- Efficient, reliable, 2-stage oil flooded screw compressor
- Proven TSA air pre-purification system
- Completely air cooled – no cooling water required
- Choice of 50 or 60 Hertz power systems
- Ships as two standard ISO containers to minimize transportation cost
- Furnished complete with all interconnecting piping and electrical, ready for installation

Options and Accessories

- CE compliance
- Fully automatic digital process control system
- Integrated cylinder filling system
- Integrated product storage system

Services

- On site or in-factory operator training
- Installation and commissioning assistance
- Extended warranty package
- Service package



Performance Specifications

		GFED 1 mode		GFED 2 mode		GFED 3 mode	
		Oxygen	Nitrogen	Oxygen	Nitrogen	Oxygen	Nitrogen
Production							
Liquid oxygen	Nm ³ /hr	120		160		198	
Liquid nitrogen	Nm ³ /hr		140		200		226
Purity							
Liquid oxygen	% O ₂ min	99.6		99.6		99.6	
Liquid nitrogen	% O ₂ max		0.5		0.5		0.5
Power							
	kW	321	321	421	421	468	468
Specific power	kWh/ Nm ³	2.7	2.3	2.6	2.1	2.4	2.1

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