Gas Engineering

Cryogenic Process Systems

Model 1L Series

Liquid Oxygen/Nitrogen Generating Plant 120-200 Nm³/hr



The 1L Series is a modular, "packaged" type plant furnished in four pre-assembled modules: feed air compressor, air chiller, pre-purifier and cold box. Three standard models are available with production capacities of 120 to 200 Nm³/hr.

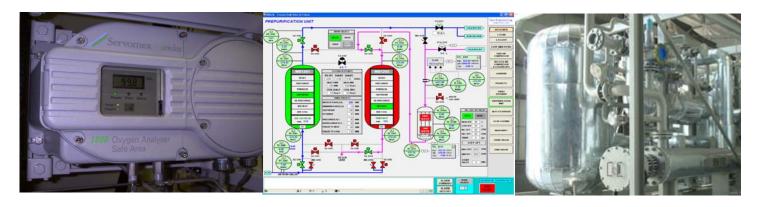


Features

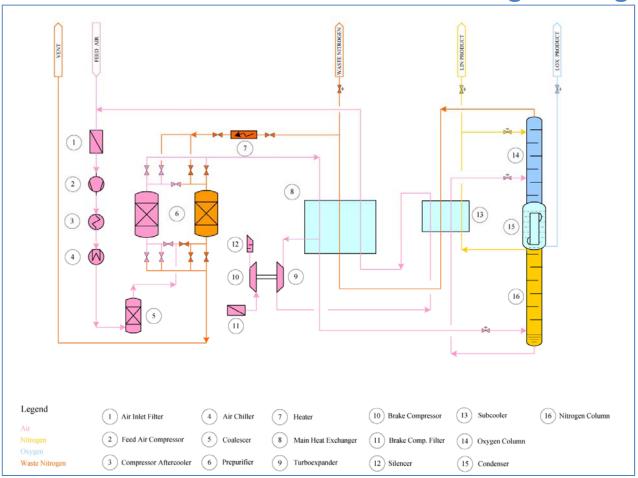
- **State of the art process** with lowest specific power consumption for this plant capacity class
- Completely air cooled no cooling water required
- **Modular design** facilitates installation and minimizes installation cost and shipping cost ships in three standard 40′ HC ISO containers.
- Stable, reliable plant control system automated compressor and chiller control; manual plant control provides reliability and simplicity; automated plant control is available as an option

Plant Options

- Automated Process Control
- LOX and LIN Storage Tanks
- High Pressure Gas Cylinder Filling System
- Prefabricated Interconnecting Piping
- Containerized Configuration
- ASME/CE certification
- On-site assistance installation, start-up



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Model		1L120		1L160		1L200	
Operating Mode		Maximum	Maximum	Maximum	Maximum	Maximum	Maximum
		Oxygen	Nitrogen	Oxygen	Nitrogen	Oxygen	Nitrogen
Production							
Liquid Oxygen	Nm3/hr	131		182		219	
	MTPD	4.5		6.2		7.5	
Liquid Nitrogen	Nm3/hr		165		233		282
	MTPD		4.95		7.0		8.5
Purity							
Liquid Oxygen	% O2, Min	99.6		99.6		99.6	
Liquid Nitrogen	PPM O2, Max		5		5		5
Utilities							
Power	kW	300	300	400	400	493	493
Cooling Water	lpm		Not Required				
Specific Power	kW-hr/Nm3	2.28	1.81	2.20	1.71	2.25	1.75

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