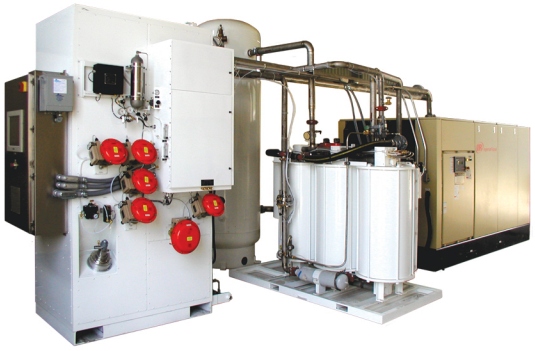
advancing air separation technology

ON-SITE LOX / LIN GENERATOR

PRODUCT PROFILE



picture above is a 2 Tons per Day (TPD) plant

MODULAR 2.0 TPD or 5.0 TPD (Tons Per Day)

Available in two sizes, the smaller unit produces 2.0 TPD and the large unit produces 5.0 TPD. These plants are offered with manual, semi-automatic or fully automatic control.

Characteristic	Value / Description
2.0 TPD Output*	166.7 lb/hr @ 7 psig (LIQUID OXYGEN) 166.7 lb/hr @ 40 psig (LIQUID NITROGEN)
5.0 TPD Output*	416 lb/hr @1-7 psig (LIQUID OXYGEN 416 lb/hr @ 1-65 psig (LIQUID NITROGEN)
Purity	99.5% (LIQUID OXYGEN) | 99.5% (LIQUID NITROGEN)
Operation	30 day cycles
Weight (approximate)	6000 kg | 13235 lbs (2.0 TPD) 21000 kg | 46250 bls (5.0 TPD)
2.0 TPD Dimensions	Length = 7.3 m | 24.2 ft Width = 3.2 m | 10.6 ft Height = 3.3 m | 10.75 ft
5.0 TPD Dimensions	Length = 7.3 m | 24.2 ft Width = 3.2 m | 10.6 ft Height = 3.3 m | 10.75 ft
Electrical Power	2TPD Plant is 380VAC/3PHASE/50HZ/335 Amps and 460VAC/3Phase/60HZ/ 265 Amps 5TPD Plant is 380VAC/3PHASE/50HZ/500 Amps and 460VAC/3Phase/60HZ/414 Amps

**Production rate based on operation at sea level (atmospheric pressure 760 mm Hg) ambient temperature of 70°F, and relative humidity of 50%.*
NOTE: Plant is capable of production at temperatures between -65°F to 125°F

Overview

Designed for applications, including commercial requirements for LOX/LIN, where it is not required to relocate the units on a regular basis. Designed with four modules that are erected at the operating site and connected with prefabricated piping spools that are shipped with unit - fully operational in less than two days.

System Design

PCI's air separation systems are low pressure process types using the basic "Reverse Brayton Cycle" with a nominal system pressure of 140 psig. This low pressure process is inherently more reliable and less dangerous than a high pressure system that typically uses design pressures of 3000 psig or higher.

PCI's oxygen/nitrogen production equipment utilizes proven components, that have been successfully integrated into numerous international commercial and military applications.

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