

PneuTech Highlights Critical Balance Between Nitrogen Purity and Flow in Onsite Gas Generation

New Educational Guide Helps Engineers and Facility Managers Select the Right Nitrogen Systems

ITASCA, IL, UNITED STATES, June 4, 2025 /EINPresswire.com/ -- PneuTech, a U.S. manufacturer of industrial gas systems, has released a new educational guide to help engineers and facility managers better understand the relationship between nitrogen gas purity and flow rate. The publication addresses how purity requirements and production volume are directly connected - and why aligning these parameters is essential when selecting or sizing an onsite nitrogen generator.



The guide explains that nitrogen generation systems, whether based on membrane or pressure swing adsorption (PSA) technology, produce nitrogen at various purities and flow rates depending on the application. Higher nitrogen purity levels require longer separation times or larger systems, which can limit flow output and increase energy use.

Key topics addressed include how purity affects generator size and energy consumption, common industrial applications by purity range from 95% to 99.999%, methods for matching generator specifications to process requirements, and detailed comparison of PSA and membrane technologies for different purity needs. The guide also provides practical tips on calculating flow rate and avoiding unnecessary system oversizing that can increase capital costs without operational benefits.

PneuTech's guide includes a comprehensive breakdown of application-specific purity levels ranging from 95% for general inerting applications to 99.999% for ultra-sensitive electronics and laboratory environments. The publication emphasizes the importance of right-sizing a system based on both peak nitrogen demand and process sensitivity to contaminants like oxygen or moisture.

Understanding the tradeoffs between purity and flow helps operators avoid overinvesting in equipment or selecting underperforming systems that fail to meet process requirements. This educational resource supports industrial buyers in making informed decisions about nitrogen generation technology selection and system sizing to optimize both performance and cost-

effectiveness.

Contact:

PneuTech USA

225 Spring Lake Drive, Itasca, IL 60143

Phone: (847) 678-8478

Website: <https://pneutech.com>

About PneuTech:

PneuTech is a U.S.-based manufacturer of nitrogen generators, compressed air systems, and industrial gas solutions. With a focus on energy efficiency and reliability, PneuTech supports manufacturers, labs, food processors, and other facilities with tailored nitrogen generation systems backed by expert technical support and warranty protection.

Michael Heine

PneuTech

+1 847-678-8478

info@pneutechgroup.com

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