Technology, Equipment and Service Offerings to the LNG Industry

Air Products has a broad range of products and services for the successful design, construction, start-up, and operation of your on or offshore, small, medium or large-scale LNG facility.
1. Air Products’ permeation technology utilizes our proprietary PRISM® membranes to provide on-site nitrogen generation in a wide range of oil and gas installations. PRISM membranes have proven their durability during years of use in refineries, petrochemical plants, and gas fields. Our nitrogen generators cover all capacities, purity, and hazardous area locations. Reliable, high-purity nitrogen supply that is mobile, low maintenance, customizable to volume, and appropriately sized.

2. RotoFlow® turbomachinery for mid-stream hydroprocessing: Provides superior reliability with state-of-the-art bearing design and features. Air Products has been building safe, reliable and efficient turboexpanders for both air separation and hydrocarbon markets for over 75 years.

3. Liquefaction processes and equipment: Air Products offers a full range of liquefaction process options. Whether you require only a few tons per hour or millions of tons per year, Air Products has the process and equipment to serve the entire LNG industry. In addition, and depending on the process, Air Products’ equipment and supply may include our MCR® coil wound heat exchangers, cold boxes, and cryogenic turbomachinery.

4. Nitrogen plants for BTU adjustment, purging, and other requirements. Air Products has the technology, experience, and resources necessary to design, engineer, construct, and operate a cost-effective gas supply system for your specific application. Our range of nitrogen generators includes cryogenic, adsorption, and membrane technologies. So we can meet all typical flow, pressure, and purity requirements where on-site gas generation is the best option.

5. An air separation plant designed to liquefy air at low temperatures by using cold energy released during the LNG re-gasification process to produce industrial gas products. The plant brings tremendous environmental and energy efficiency benefits compared to conventional processes as this ASU plant consumes approximately 50 percent less electricity. Additionally, the use of LNG cold energy technology decreases carbon dioxide emissions by reducing electrical use in operation of the ASU.

6. APEX Nitrogen Services for plant commissioning or cooldown. APEX nitrogen supply can save time and money by safely and economically meeting your nitrogen needs over a wide range of pressures and flow rates.

7. Small natural gas liquefaction systems produce up to 0.5 MTA of LNG for requirements such as peak shaving or for transportation fuel. Offers low cost and readily available refrigerants. Simple operation and superior turn-down efficiency. Modularized design minimizes construction costs.

8. APEX Nitrogen Services for pipeline purging and pigging. With more than 35 years’ experience in supporting pipeline operations, we focus our technical expertise on meeting your specific goals and requirements. Our self-contained pumping units arrive ready to hook up and start working. Our operators set up the equipment to supply the flow rates, pressures, and temperatures for your job—and parameters can be adjusted quickly and easily.
About Air Products

Air Products is a world-leading Industrial Gases company celebrating 75 years of operation. The company’s core industrial gases business provides atmospheric and process gases and related equipment to manufacturing markets, including refining and petrochemical, metals, electronics, and food and beverage. Air Products is also the world’s leading supplier of liquefied natural gas process technology and equipment.

For more information, please contact us at:

Corporate Headquarters
Air Products and Chemicals, Inc.
7201 Hamilton Boulevard
Allentown, PA 18195-1501
T 610-481-4861
F 610-481-6329
info@airproducts.com
or visit airproducts.com/LNG

tell me more
airproducts.com/LNG