

Air Products Express (APEX) Services



Fast, flexible industrial nitrogen services

Broad industry expertise

APEX Services meet nitrogen needs in a broad range of industries, including:

- Refining
- Petrochemical
- Chemical
- Pipeline
- Steel
- General nitrogen use

Wide range of applications

- Planned or unplanned plant turnarounds, start-ups, and maintenance activities
- Cooling of catalytic reactors, heat exchangers, and cryogenic equipment with gaseous or liquid nitrogen
- Purging, inerting and pressure testing of process equipment, piping systems, and storage tanks
- Hot nitrogen purging, stripping and start-up
- Drying of process equipment, including piping systems, heat exchangers, reactors, and molecular sieve beds, with ambient or hot nitrogen
- Pipeline pig pushing
- Helium leak testing
- Catalyst regeneration



Air Products' APEX industrial nitrogen services provide just what you need: fast and flexible supply of high-quality nitrogen for planned and unplanned plant turnarounds, start-ups and maintenance activities. Part of our full spectrum of services, APEX nitrogen supply can easily save time and money while safely and effectively meeting needs throughout your facility.

Fast and flexible

- **Custom-engineered service** – geared specifically to your particular needs. When you use APEX Services, we use our technical expertise and computer modeling to determine and deliver the most cost-effective nitrogen supply solution for your needs
- **Fast set-up** – with no infrastructure or capital investment required. Whatever our job, our self-contained pumping units arrive ready to pull up, hook up and start working anywhere and anytime
- **Quick adjustment** – with on-site operating flexibility. Flow rate, temperature and pressure can all be quickly and easily adjusted to suit your needs



High-performance equipment

State-of-the-art mobile pumping units efficiently deliver nitrogen wherever, whenever, and however you need it with:

Flexible operation

- Flow rates up to 18,000 Nm³/hr
- Pressures up to 10,000 psig
- Temperatures from -196°C to +426°C

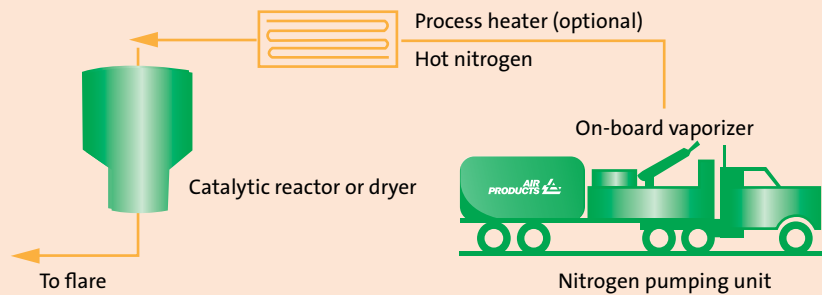
Safe operation

- Remote high and low temperature alarms with timed delayed shutdown
- Automatic over-pressure shutdown
- Emergency engine shutdown
- Trained operators with Safety Council certification

Self-contained operation

- Diesel powered – no external utilities needed
- Diesel-fired vaporizer
- Compact size – versatile on-site placement. Pumper dimensions: 18m long x 3.7m high x 2.4m wide

Operational temperature can reach +426°C



About Air Products

Air Products is a leading global supplier of industrial gases, performance materials and equipment and services. We serve customers in industrial, energy, technology and healthcare markets worldwide. With fiscal 2012 revenues approaching \$10 billion and operations in over 50 countries, 20,000 Air Products employees are working to build lasting relationships with our customers and communities based on understanding needs and delivering on them with integrity and passion. Through this understanding,

we continually find innovative ways to help our customers win markets around the world whilst maintaining our focus on being an industry leader in safety, health and preservation of the environment.



tell me more

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