

# The LNG Equipment Manufacturing Facility Port Manatee, Florida



World class manufacturer of cryogenic equipment from the leader in liquefied natural gas technology, equipment and services



The roughly 390,000 sq. feet (36,500 sq. meters) facility allows Air Products to manufacture small to very large LNG heat exchangers as demanded by the market.

At the Port Manatee facility, we manufacture small, medium, and very large size cryogenic coil wound heat exchangers (CWHE) to support the LNG market. Additionally, we produce equipment used in our air separation and hydrocarbons businesses such as columns, vessels, and cold boxes, prefabricated plant modules and skids.

The manufacturing facility is located adjacent to SeaPort Manatee and provides unrestricted access to port services for shipping equipment anywhere in the world. The plant began operations in 2014, and, to date, has fabricated and shipped heat exchangers and cold boxes within the United States and internationally. Our workforce is comprised of highly-skilled and experienced craftspeople who take pride in the quality of their work and attention to detail. The result is a superior product delivered on time that customers count on to operate safely, reliably, and efficiently for many years.



“At Air Products our higher purpose is to bring people together to create innovative solutions to the world’s greatest environmental and sustainability challenges. The LNG Equipment Manufacturing Facility in Port Manatee is a significant component of this, manufacturing equipment that is helping to fuel the world with minimal environmental impact. We are proud that this location offers opportunities to the local workforce and we strive to build a culture where every employee knows they belong and matter.”

Dr. John Palamara  
Air Products’ General Manager, LNG

## Diversity, Inclusion & Belonging

Colleagues with different capabilities, cultures, perspectives, and experiences contribute to our ability to stay competitive in the ever-changing global marketplace. We strive to be inclusive of the diversity of our employees, invest in their development and foster a collaborative and respectful work environment where all employees feel like they belong and matter.

## The Leading LNG Technology and Equipment Provider

Air Products is the premier global LNG technology, equipment, and services provider. Our unique ability to integrate the liquefaction process design and critical liquefaction equipment leads to an optimization of performance, costs, operability, and reliability that has become the benchmark of the LNG industry. The LNG Equipment Manufacturing Facility includes an LNG Equipment Text Facility (ETF) which enables Air Products to continually improve the reliability and yield produced from our LNG equipment and to design new equipment and processes. Air Products has already shipped 150 LNG heat exchangers to 20 countries around the world. For more than 50 years, we’ve supplied technology and equipment for small, medium, and large LNG facilities to meet growing market demands and customer requirements.

## Serving Our Local Community

Air Products’ Port Manatee employees care about the community in which they work and live. They work closely with local schools and colleges to improve the technical education of students. They are actively engaged in the community through the Bradenton and Sarasota Chambers of Commerce and the Bradenton Area Economic Development Corporation and participate in fund raising to support worthy charities such as United Way, Take Stock in Children and the Manatee Food Bank. Recently the facility was named a Florida Manufacturing Employer of Choice by FloridaMakes, the official representative of the National Institute of Standards and Technology’s Manufacturing Extension Partnership in the state of Florida.

## Ongoing Emphasis on Safety

Air Products is an industry leader in environmental, health, and safety performance, and has earned a place on the Dow Jones Sustainability North American Index for over 10 years in a row. The company has a total safety philosophy, which integrates safety into all activities with the objective of attaining industry leadership in safety performance.



# Fast Facts About Air Products' Port Manatee Facility

## Facility

- 36-acre site (14.5 hectares)
- 390,000 sq. feet of workshop space (36,500 sq. meters)
- Heavy capacity overhead cranes and material handling equipment
- Unrestricted access to the closest deep-water port to Panama Canal with heavy lift and Ro-Ro capabilities

## People

- Welders qualified in multiple materials and processes
- Experienced production supervisory team
- Independent quality department: welding engineers, certified weld trainers and qualified non-destructive testing (NDT) technicians
- Material handling/warehouse personnel
- Maintenance department
- Production support staff: purchasing, planning and coordination
- Cost estimating team
- Project management team
- HR, training, and payroll
- Industrial engineering team

## Authorizations and Qualifications

- Hartford Steam Boiler is our inspection service
- Welders qualified to ASME IX
- NDT personnel qualified to SNT TC 1A

## Engineering Capabilities and Experience

- Leading edge skills in pressure vessel design using the ASME Code and all major international design codes and standards
- State of the art analysis tools to fully consider wind, wave, seismic, and blast loadings for highly reliable long life equipment assets
- Dedicated team of structural and piping engineers design platforms, ladders, and piping support systems that ensure seamless integration with your plant
- Extensive experience with modularization strategies to reduce costs and schedule in the field
- Life cycle field support services and life extension studies

## Operations and Services

- Cutting, forming, welding and testing of:
  - Aluminum alloys
  - Stainless steel
  - Monel
  - Nickel
  - Carbon steels
  - Copper
- Global Field Support:
  - Construction, start up, and repairs
  - Welding/fabrication, supervision and welding engineering

## Equipment Supply

- LNG
  - Cryogenic coil wound heat exchangers
- Air Separation/Hydrocarbons
  - Cold boxes
  - Distillation columns
  - Pressure vessels
  - Skids
  - Other fabrication/assembly work

## Quality Control Testing Capabilities

- Oxygen/oxidizer cleanliness inspections
- X-ray inspection of welds
- Manual/automated ultrasonic testing for flaw detection in welds
- Dye penetrant testing
- Magnetic particle testing
- Mass spectrometer vacuum leak testing
- Ultrasonic leak detection
- Pneumatic testing
- Hydrostatic testing
- Positive material identification

## Certifications

- ISO 9001:2015 registration
- ASME Certificate of Authorization (U&R stamps)
- National Board Certificate of Authorization (NB & R stamp)
- Chinese Manufacturing License for pressure vessels





The location provides ready access to port services and will facilitate global shipping.



For more information, please contact us at:

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An Air Products main cryogenic heat exchanger is transported to the dock for shipping.



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