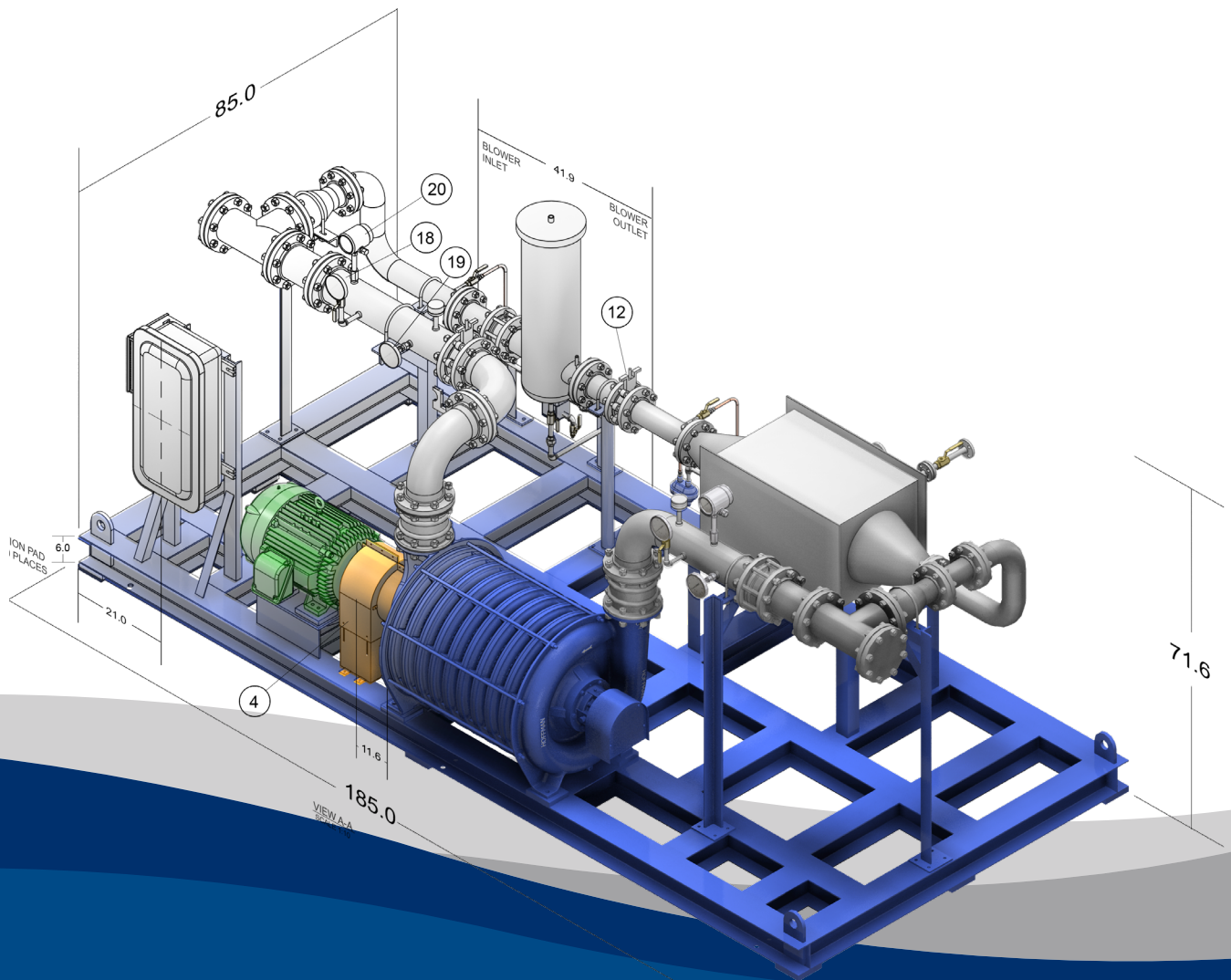




SINGLE SOURCE SOLUTIONS FOR COMPREHENSIVE BLOWER SYSTEMS

# ENGINEERED SYSTEMS





## WE TURN SPECS INTO REALITY

### COMPLETE BLOWER SOLUTIONS THAT ARE ENGINEERED-TO-ORDER

With over 100 years of engineering expertise, Hoffman & Lamson specializes in the design and manufacture of engineered systems that are tailored to your application and specifications. Our ETO systems include energy saving controls and VFD's, a wide range of accessories, and durable materials constructed around reliable Hoffman & Lamson products.

All Hoffman & Lamson systems are backed by a complete system warranty and global aftermarket support and service, to ensure your operations run smoother, longer and more reliably.

From engineering to manufacture, and aftermarket services; Hoffman & Lamson is your single source solution for custom engineered systems.

# HOFFMAN & LAMSON

## Single Source Solution

### Engineering & Design

- Complete system design
- Designed to spec
- 3D Modeling
- Over 100 years of engineering expertise

### Manufacture & Testing

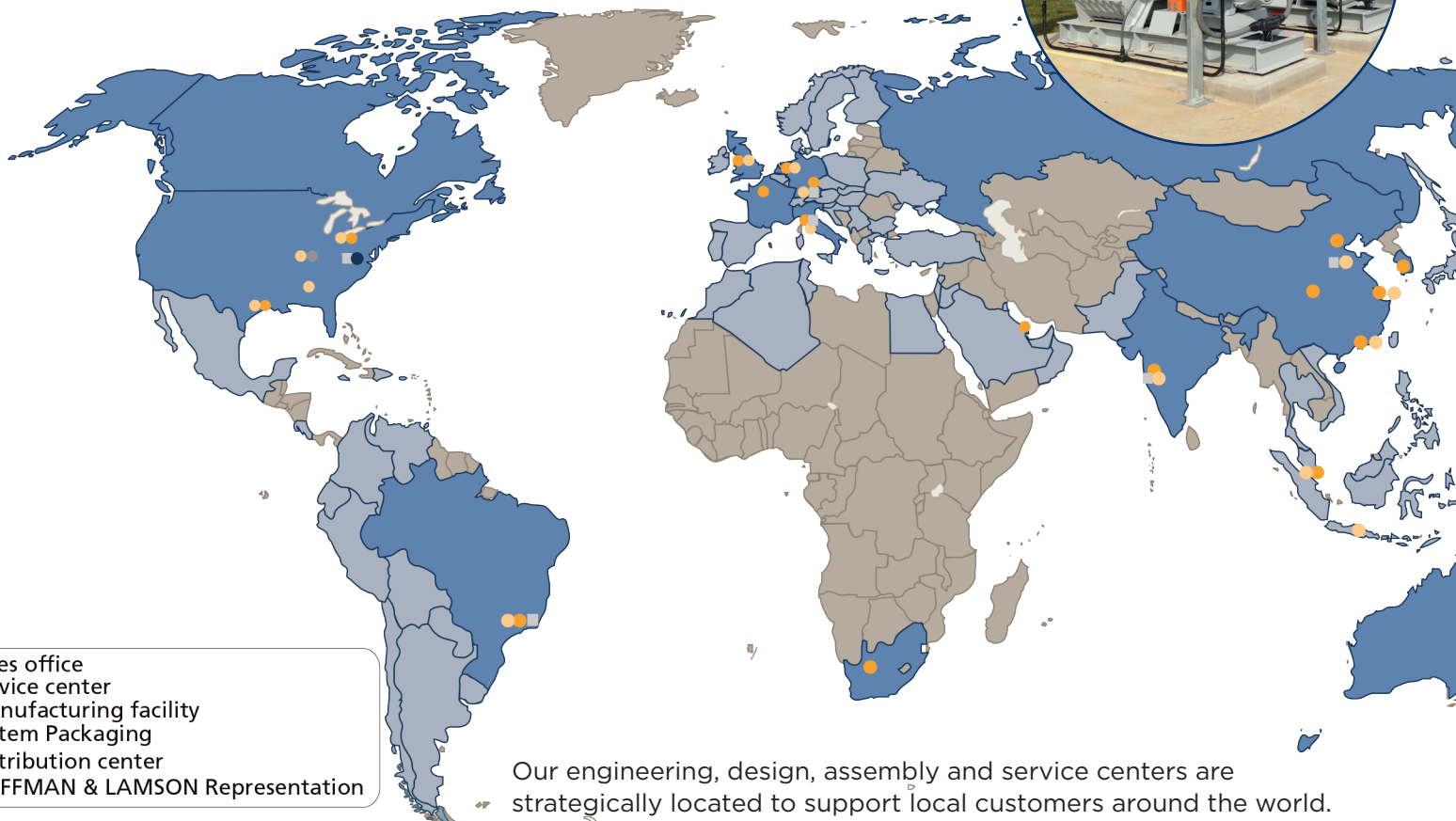
- Regional assembly facilities
- Pipe welding and ASME welding
- ASME Performance Testing
- Complete Package Functionality Test
- Mechanical Run Test
- Hydro Test
- Rotor Balance Test
- Mag Particle Test
- Dye Test

### Service & Support

- Global footprint of service centers and field service
- Preventative maintenance plans to increase useful life
- Energy saving upgrades
- Ongoing investments in innovation
- Factory Parts and OEM Service

### Quality

- ISO 9001 Quality Certification
- Certified Quality Engineering (CQE)
- Certified Weld Inspector (CWI)
- High Precision Measuring Equipment
- Vendor Inspections to Maintain Quality Standards
- CE Labeling



Our engineering, design, assembly and service centers are strategically located to support local customers around the world.





ETO System with junction boxes, skid wiring & sound suppression



ETO System for an Oil & Gas Application



ETO System with Sound Enclosures

## Beyond the Blower, Base, and Motor

Hoffman & Lamson complete system solutions extend beyond a blower and motor on a base. Included below are just some of the features that can be incorporated in a complete packaged solution.

Energy saving controls & VFD's

- Rigel Controls
- Analog monitors
- MDOCS controls
- Microprocessor-based digital monitor/controller
- Multi-variable digital monitors/controller

Sound blankets & enclosures

Filter silencers

Piping isolators

Weather enclosures

Explosion proof controls and starters

Piping in a variety of materials

Filtration

Condensers & heat exchangers

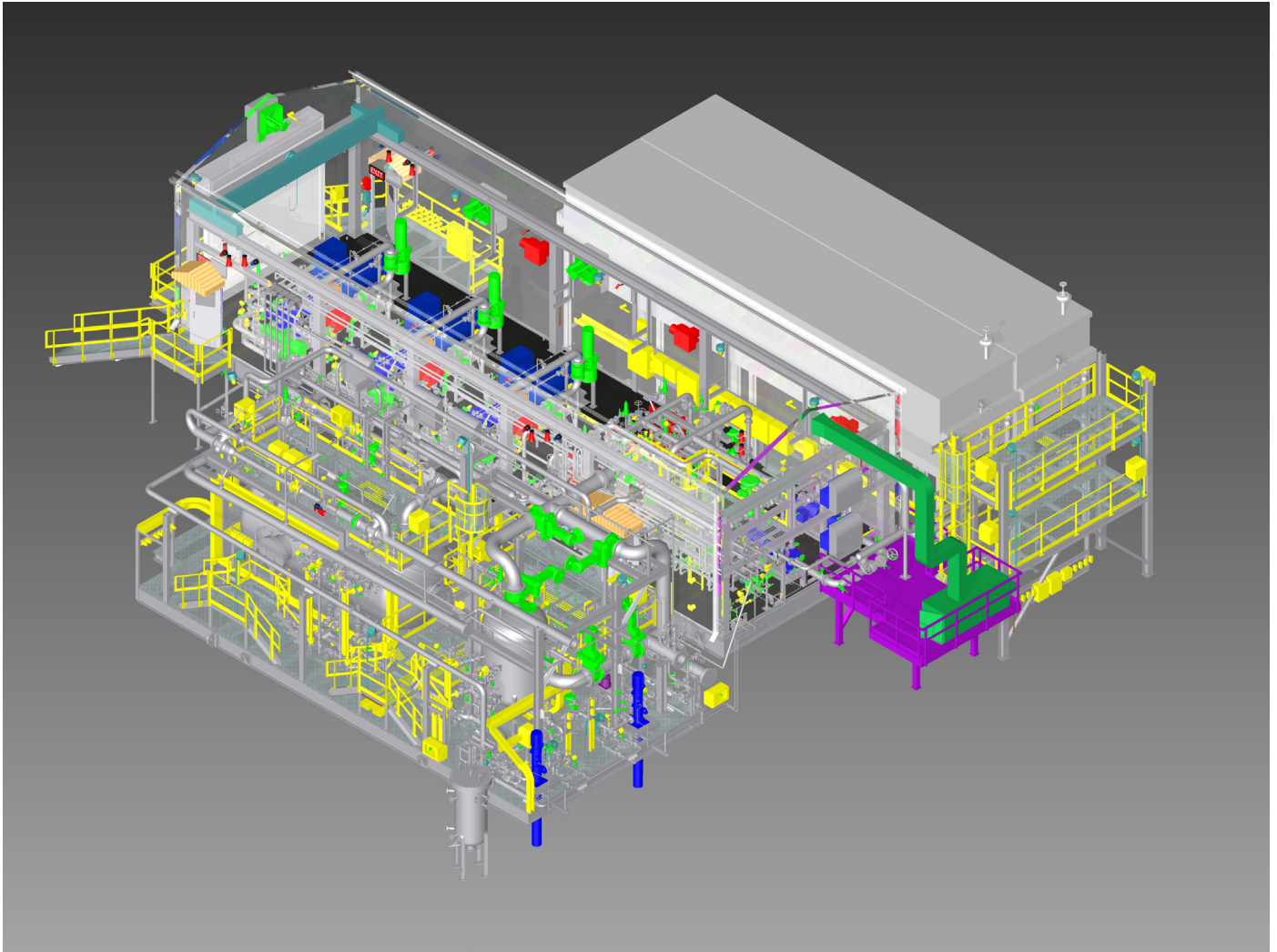
Separators

Gauges, instruments and valves

Vessels

## Endless Options... No Limit to Size or Spec

Our engineering teams are backed by experienced purchasing departments and quality suppliers. There is virtually no limit to the system specs or size that Hoffman & Lamson can design, engineer and build.

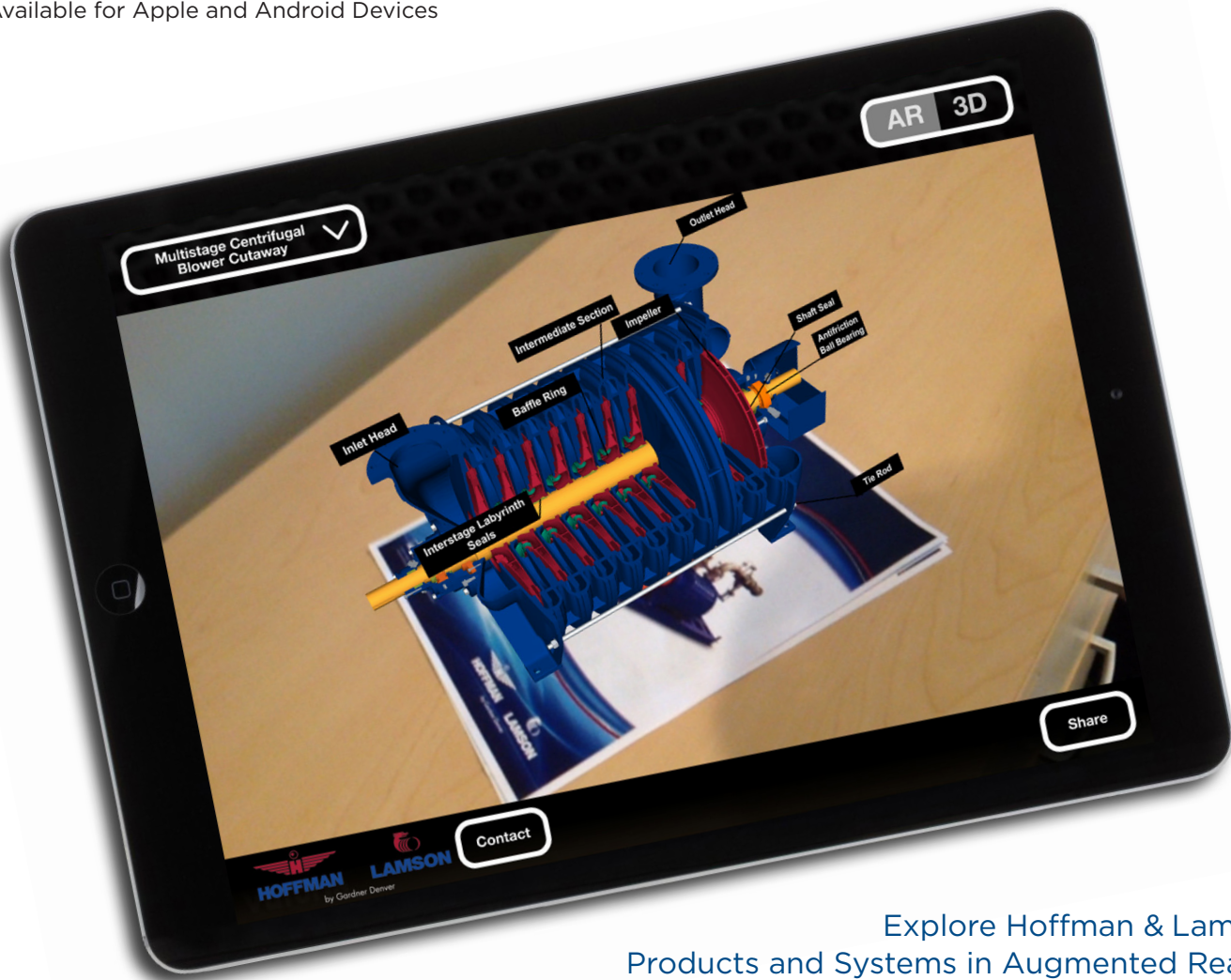


Design drawing of a complete ETO system constructed at the North America Manufacturing location. Project consists of multiple skids, weather proof enclosure with power, heat, lights; multi level tank skid, heated weather proof connections; and two air coolers.

# HOFFMAN & LAMSON

## AR Explorer App

Available for Apple and Android Devices



Explore Hoffman & Lamson  
Products and Systems in Augmented Reality  
FULL 3D VIEWS - CUTAWAYS - ENGINEERED SYSTEMS

Download the App - Scan the Cover - Explore

Using the Hoffman & Lamson AR Explorer App, scan the cover of this brochure to experience full 3D views, cutaways, and engineered systems from your Apple or Android Device.





# About the Systems Featured on the App

## Gas Booster System

### Industry: Wastewater

As a result of thermal hydrolysis processing, wastewater treatment plants are often faced with the challenge of abating methane gas emissions. A large, advanced wastewater treatment facility in North America found an alternative to abatement. The facility came up with a plan to consume 100% of their digester gas by converting it to steam, a resource that is critical to the operation of the facility's combined heat and power (CHP) plant.

Hoffman & Lamson was given the challenge of pressurizing the gas to approximately 12 psig. This would be the last step in cleaning and converting the gas for use at the CHP.

The Hoffman & Lamson solution uses a coalescer filter to remove moisture, and a bypass line with a heat exchanger to control gas flow. Application specific enhancements include an explosion proof motor starter, stainless steel piping and supports and specialized valves, gauges and pressure transmitters. no limit to the system specs or size that Hoffman & Lamson can design, engineer and build.



## Breathing/Ventilation Air Supply System

### Industry: Oil & Gas FLNG

Hoffman & Lamson engineers received a request for a ventilation package that would provide a set air supply to substructure and confined spaces where tank inspections and maintenance take place.

The Hoffman & Lamson solution included a package with 2 blower skids that would provide ventilation for cryogenic and non-cryogenic tanks. Air would be pushed from a fan room to the confined areas. The air temperature to the cryogenic tank would be regulated through a cooler, heater and controls. Additional energy savings and protection were built into the engineered package which includes a redundant PLC with accessories.

The systems are designed to operate simultaneously, but are interconnected. This allows for air to be redirected between blower systems and tanks should a need arise.



HOFFMAN & LAMSON®

## Products & Systems



### HOFFMAN & LAMSON Multistage Centrifugal Blowers

HOFFMAN & LAMSON Multistage Centrifugal Blowers are the ideal solution for processes that require uniform pressure, pulse-free flow, and oil-free operation. With designs optimized for 60 and 50 Hz markets, we offer efficient performance backed by a history of reliable operations.



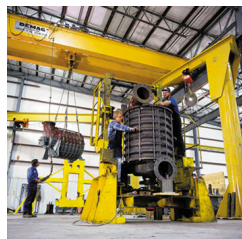
### HOFFMAN DEFENDER™ Lobe & Screw PD Blowers

HOFFMAN DEFENDER™ Lobe and Screw Positive Displacement (PD) Blowers provide reliability and extreme sturdiness in a compact design. Our innovative PD blower systems maximize productivity and minimize energy costs in a maintainable, easy-to-install package.



### Controls & Energy Management

Considering an efficiency upgrade? HOFFMAN & LAMSON upgrades and High-Speed Turbo Blower solutions deliver increased efficiency and improved reliability.



### Support, Service & OEM Parts

Restore blower performance and maintain system reliability with HOFFMAN & LAMSON OEM Service, support, and parts – available through our global network of HOFFMAN & LAMSON Certified™ Service & Distribution Centers.



[www.HoffmanandLamson.com](http://www.HoffmanandLamson.com)

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Printed in U.S.A.  
CF-ETO-MAIN 3rd Ed. 10/24