

Engineered Systems

SINGLE SOURCE SOLUTION FOR
COMPREHENSIVE BLOWER SYSTEMS



Look inside for information on Hoffman & Lamson's
Augmented Reality Experience



HOFFMAN



LAMSON

by Gardner Denver

We Turn Specs Into Reality

THE SINGLE SOURCE SOLUTION FOR COMPREHENSIVE BLOWER SYSTEMS

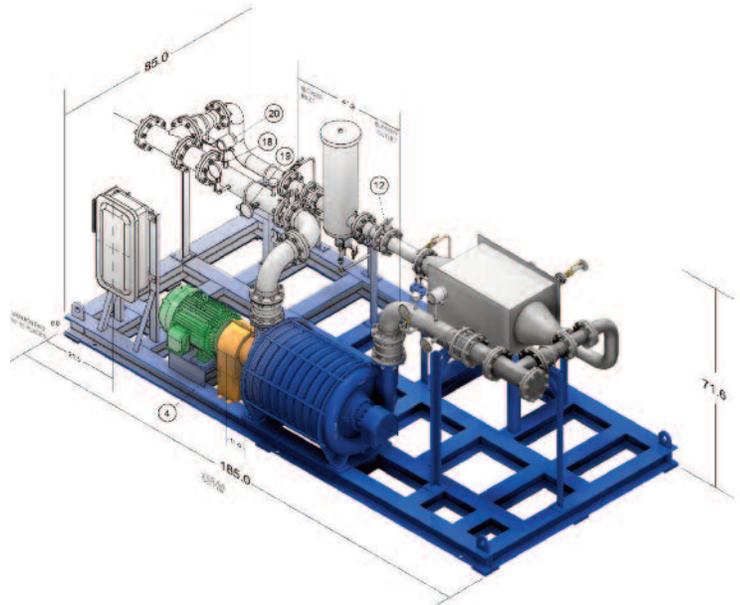
Complete Blower Solutions that are Engineered-To-Order

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.



Industries & Applications

Hoffman & Lamson products and systems are used in applications around the world

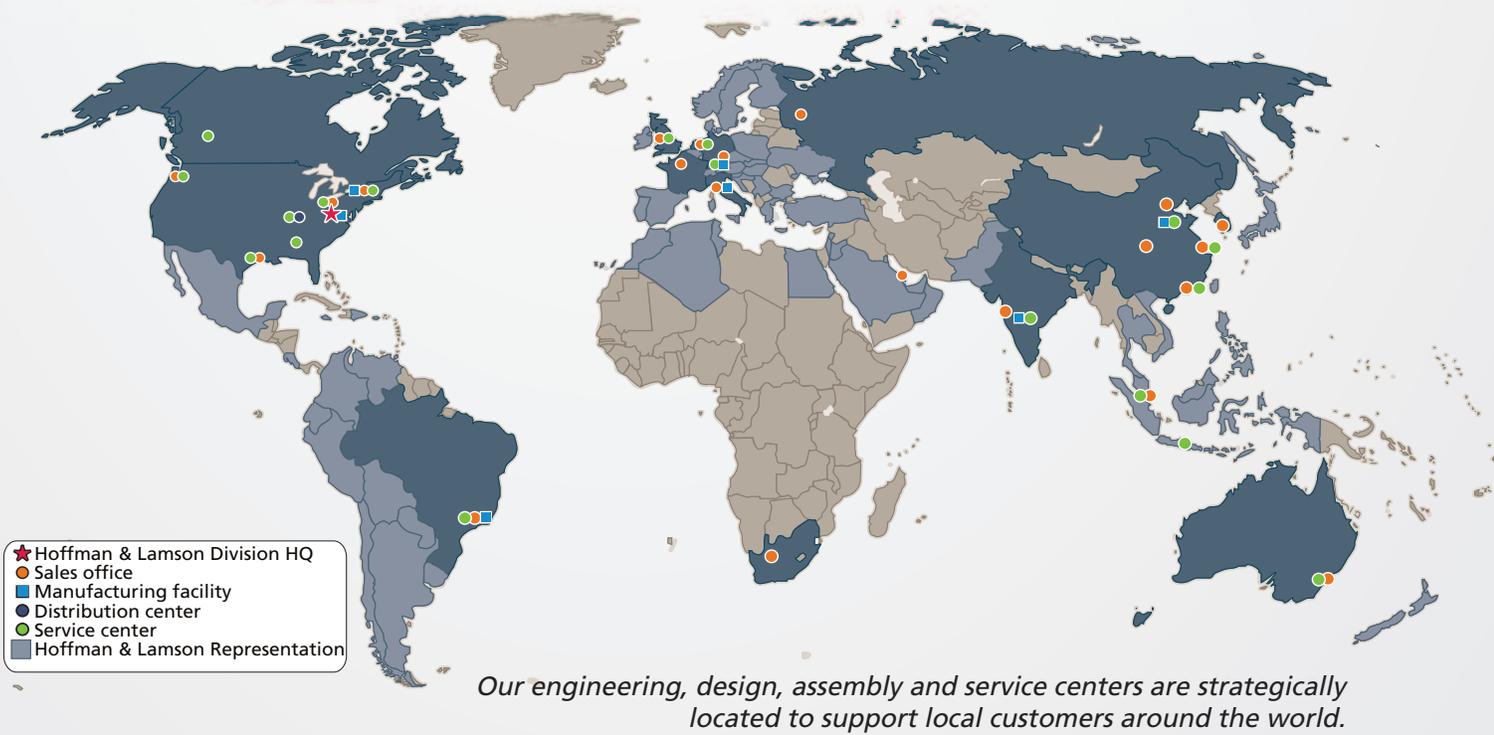
Aeration basins
Aeration
Aerobic digestion
Air drying

Air flotation and sliding
Air knife stripping
Air scouring
Biofuels - Ethanol Production

Biogas
Blow-off systems
Carbon black
Clean rooms
Coal gasification
Combustion air
Digester gas boosters
Electronics
Explosive dust collection
FGD-Forced oxidation
Filter backwashing
Fluidized bed
Flux recovery
Gas boosting
Gas recovery
Grit chambers
Housekeeping
Landfill Gas
LNG Vaporizers
Nuisance dust collection
Oral Evacuation
Ore Flotation
OSHA standard dust control
Petroleum Refining
Pneumatic conveying

Powder paint
Printing operations
- Turning bars
- Dryers
- Binding applications
Product reclamation
Pulp dewatering
Sanitary/Product Quality
- Bakeries
- Fluor/Grain mills
- Food products
- Pharmaceuticals
Source capture
Steel plating baths
Sulfur recovery





The 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

Aftermarket 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 High Quality Standards
- CE Labeling



Engineered Systems



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

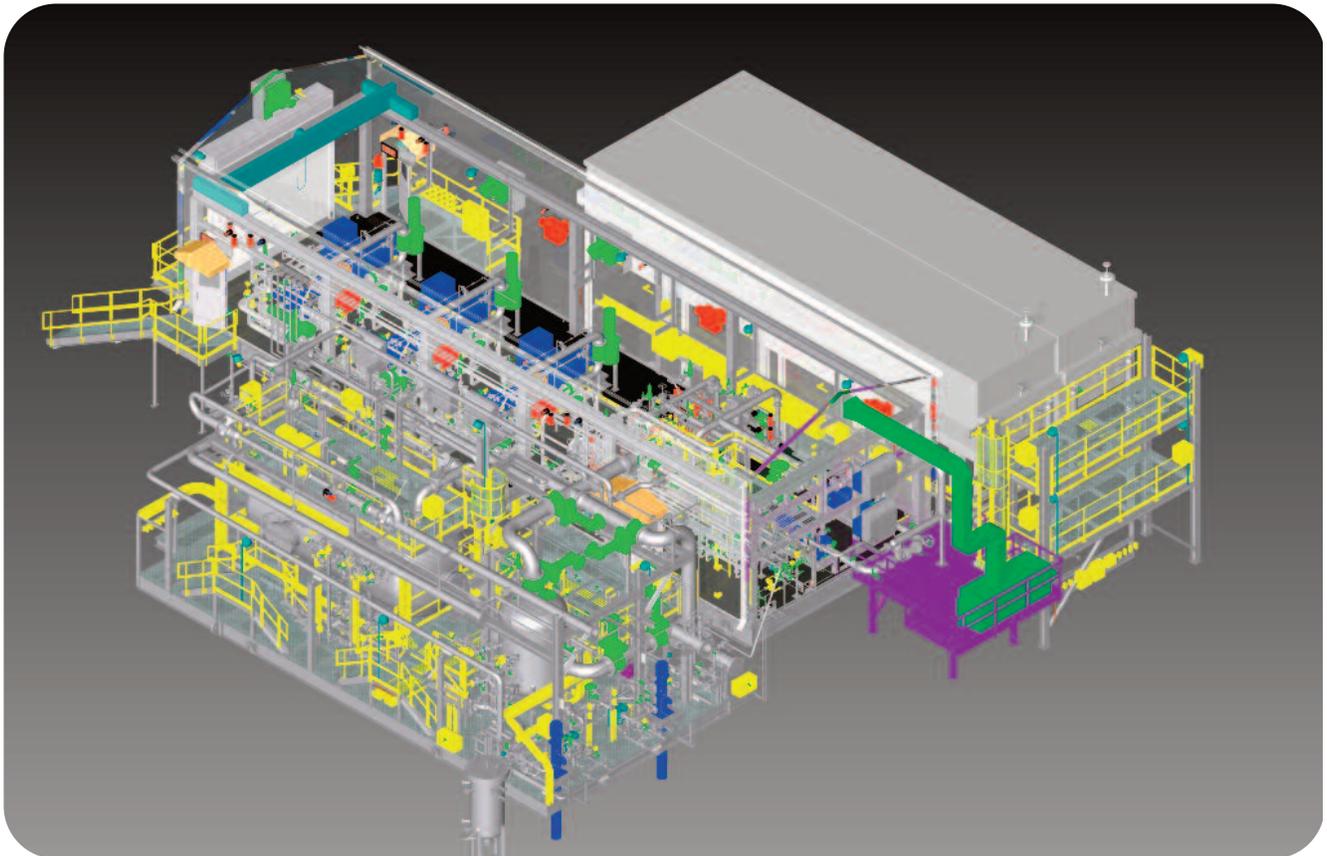
Separators

Gauges, instruments and valves

Vessels

Endless Options... No Limit to Size or Spec

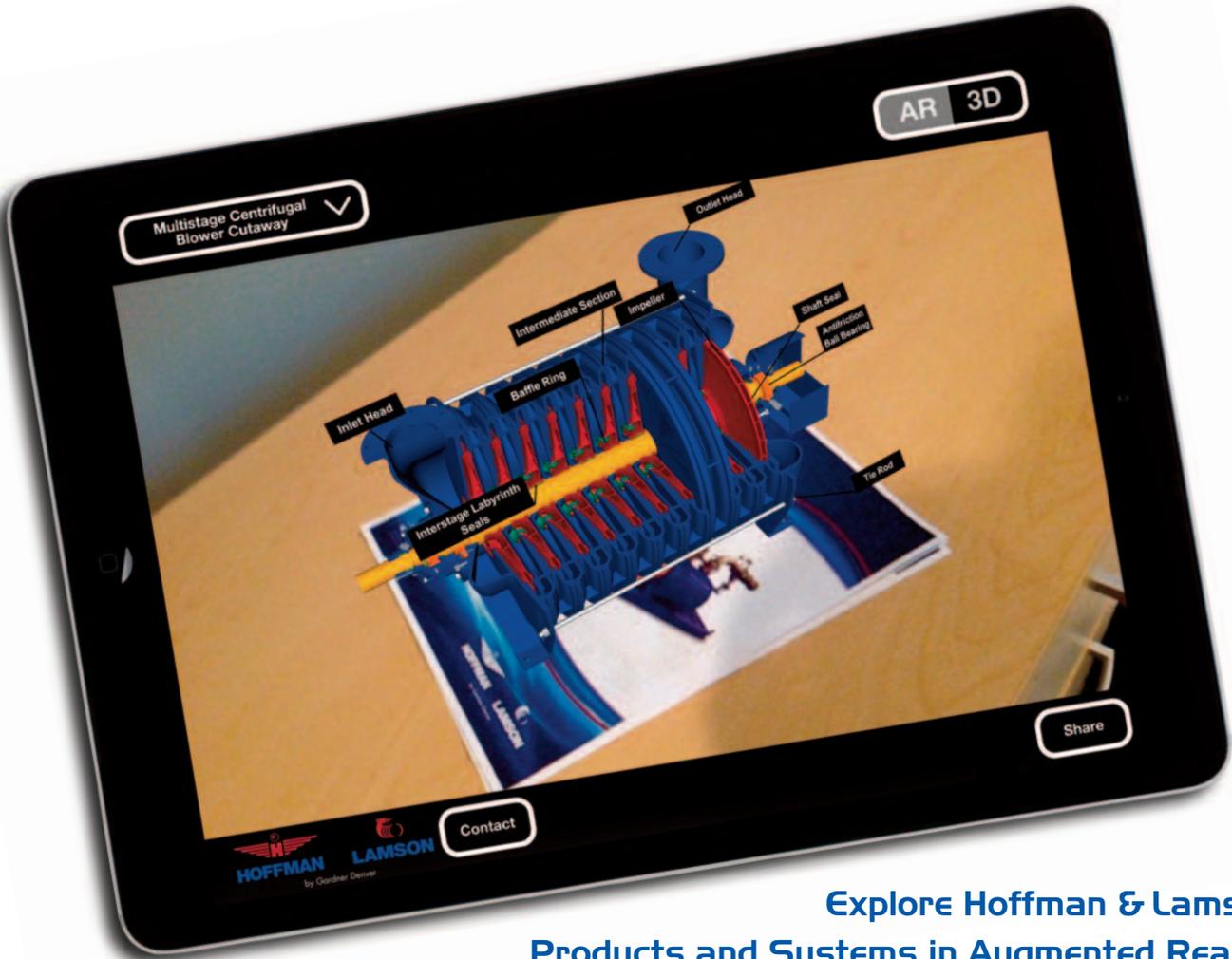
Our engineering teams are backed by experienced purchasing departments and quality suppliers. There is virtually no limit to the system specs or size that Hoffman & Lamson can design, engineer and build.



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 & 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 on 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 plans 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 coalscer 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.



Breathing/Ventilation Air Supply System

Industry: Oil & Gas

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.



Aftermarket Services

HOFFMAN & LAMSON AFTERMARKET SERVICE & SUPPORT

Australia	Sydney
Bahrain	Diraz, Manama*
Brazil	Campinas
China	Boshan Shanghai Guangzhou
France	Saint-Pathus*
Germany	Nuremberg
India	Pune
Netherlands	Assendelft
Saudi Arabia	Dammam
Singapore	Singapore
South Africa	Wadeville
United Kingdom	Winsford, England
USA	Houston, Texas Peachtree City, Georgia St. Peters, Missouri Vancouver, Washington

**Field service only*



Gardner Denver

www.HoffmanandLamson.com
info.hoffmanlamson@gardnerdenver.com

Gardner Denver, Inc. PO Box 130 Bentleyville, PA 15314 USA
New Equipment Sales: (800) 543-7736 Aftermarket Parts Sales: (800) 982-3009
Phone: +1 724-239-1500 Fax: +1 724-239-1502

Specifications subject to change without notice.



Please recycle after use.

©2015 Gardner DenverNash
CF-ETO-MAIN-0815 rev.09/15