



HOFFMAN



LAMSON

by Gardner Denver

BLOWERS / EXHAUSTERS

Multistage Centrifugal





Customized Solutions Unparalleled Expertise.

A WINNING COMBINATION.

Hoffman® & Lamson® brand centrifugals are recognized around the world as the best blower and exhauster solutions for wastewater treatment and other aeration applications. For more than 100 years customers have trusted the quality performance these legacies provide.

Today, as the largest manufacturer of blowers/exhausters, our number one priority continues to be unparalleled responsiveness to meeting customer needs. Our unwavering commitment to developing long-term customer relationships, innovative product designs, and quality manufacturing is evident with over 200,000 units manufactured. We are continually improving delivery and response times while setting the highest performance standards in the industry.

For the efficient, reliable performance you expect and your operation demands, you need HOFFMAN & LAMSON.

HOFFMAN® & LAMSON®

Multistage Centrifugal Blowers/Exhausters

Serving a Wide Range of Applications

The range of applications for Hoffman and Lamson centrifugal products is ever-expanding and is firmly illustrated with over 100,000 machines in operation. The experienced HOFFMAN & LAMSON team, backed by years of research and development, provides effective, affordable solutions for a variety of application needs.

Water & Wastewater Treatment

In water & wastewater treatment, air is provided to water and wastewater aeration systems and air scouring/filter backwashing. HOFFMAN & LAMSON blowers can be specified for coarse/fine bubble diffuser systems, reactor batch supplemental air, digester gas boosters, grit channels and sludge digestion applications.

- Aeration
- Aerobic Digestion
- Biogas
- Digester Gas Boosters
- Filter Backwashing
- Air Scouring
- Grit Chambers

Industrial Processing

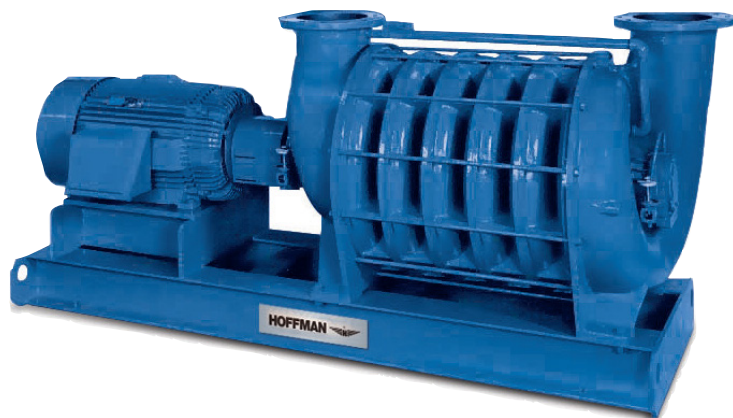
In the industrial market, our blowers provide air or gas for sulfur recovery, combustion air, process gas boosting, coal mine venting, fluidized bed combustion systems, vapor and gas extraction, composting, sludge incineration and printing systems, to name a few.

- Aeration Basins
- Air Drying
- Air Flotation and Sliding
- Air Knife Stripping
- Blow-off Systems
- Carbon Black
- Coal Gasification
- Combustion Air Blowers
- FGD - Forced Oxidation
- Fluidized Bed
- Gas Boosting - O₂, CO₂, N₂, etc.
- Gas Recovery
- Landfill Gas
- LNG Vaporizers
- Printing Operations - Turning Bars, Dryers, Binding Applications
- Pulp Dewatering
- Steel Plating Baths
- Sulfur Recovery
- Vapor Recompression

Engineered Vacuum Systems

HOFFMAN & LAMSON Engineered Vacuum Systems are used to pick up, convey and capture a myriad of materials ranging from aluminum granules to corn flakes.

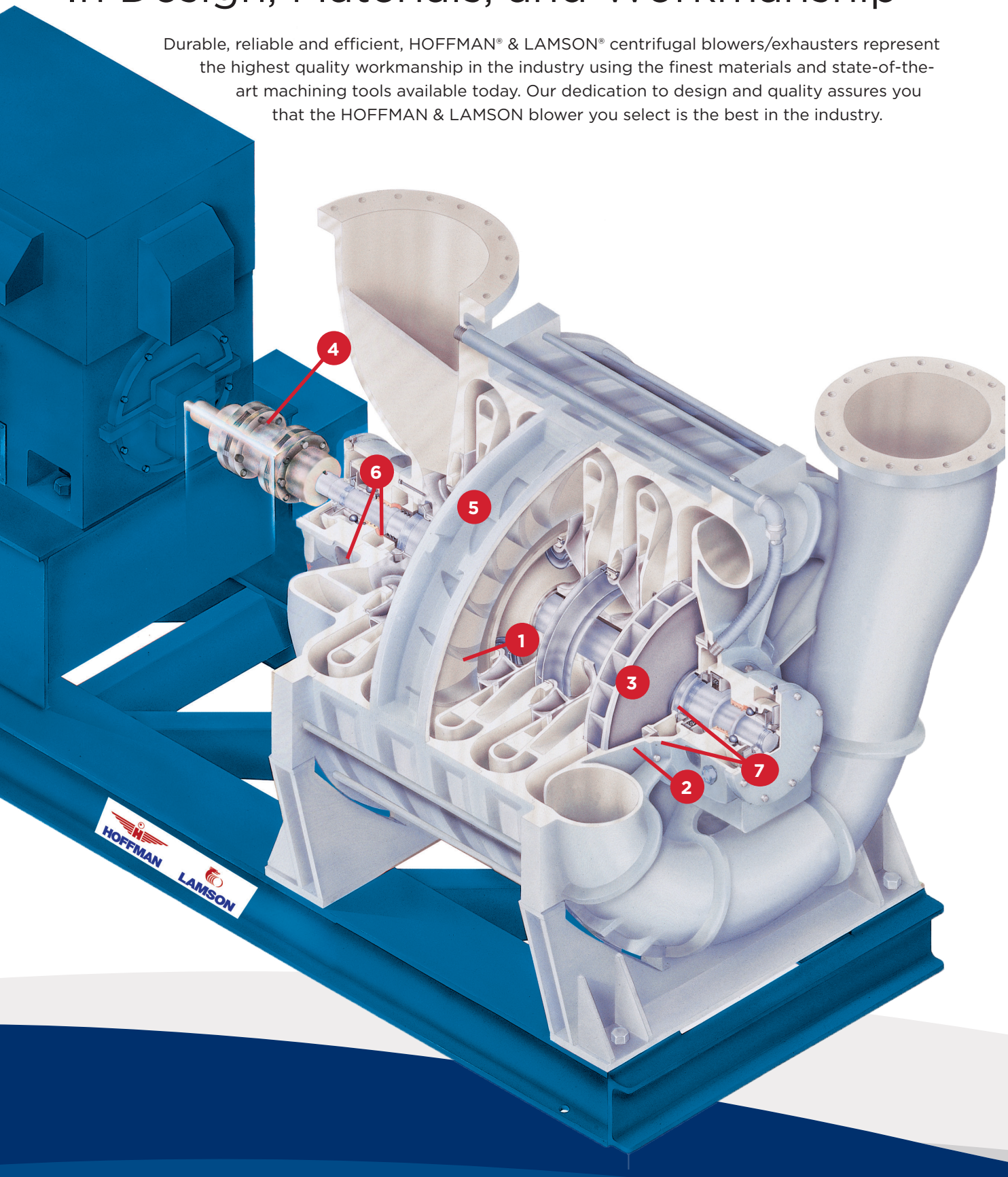
- Clean Rooms
- Electronics
- Explosive Dust Collection
- Flux Recovery
- Housekeeping
- Nuisance Dust Collection
- Oral Evacuation
- OSHA Standard Required
- Pneumatic Conveying
- Powder Paint
- Product Reclamation
- Sanitary/Product Quality - Bakeries, Flour/Grain Mills, Food Products, Pharmaceuticals
- Source Capture



SUPERIOR QUALITY

In Design, Materials, and Workmanship

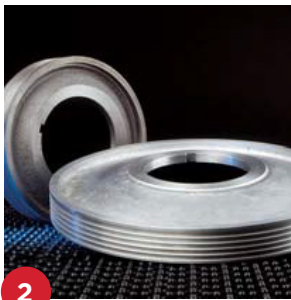
Durable, reliable and efficient, HOFFMAN® & LAMSON® centrifugal blowers/exhausters represent the highest quality workmanship in the industry using the finest materials and state-of-the-art machining tools available today. Our dedication to design and quality assures you that the HOFFMAN & LAMSON blower you select is the best in the industry.





Multiple Baffle Rings

Many models feature our patented Multiple Baffle Rings (MBR™) which help turn airflow smoothly into the eye of the impeller, dramatically reducing inlet passage losses. MBR combined with the two-dimensional impeller design increases blower efficiency and pressure/vacuum capability.



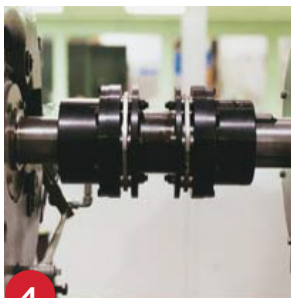
Balance Piston

A balance piston is located at the outlet end of the rotating impeller assembly to compensate for the axial force of the impellers on the inlet bearing. This greatly increases bearing life for longer, trouble-free operation.



Multistage Shrouded Impellers

Two-dimensional shrouded cast aluminum impellers are balanced individually and keyed onto the shaft. On most blowers, the complete assembly is then balanced to achieve smooth operation with lowest vibration levels in the industry. Rotor assemblies are designed to operate well below first critical speeds for added reliability.



Flexible Coupling

Blowers/exhausters connect directly to the power source with a precision aligned flexible coupling. This optimizes power transfer and minimizes bearing loads for longer life.



Cast Housing

Blower housings are precision machined from high-grade cast iron. Smaller models are cast aluminum. The intermediate blower sections are assembled using high strength steel tie rods. The blower and its driver are mounted together on a single steel baseplate. This assures long lasting performance and durability.



Labyrinth Seal

Non-contact, non-wearing labyrinth air seals are standard. This no-maintenance seal is used in most air and some gas applications (purge option available). Carbon Ring seal for special air and gas applications requiring superior sealing, optional carbon ring seals are available with purge option.



Carbon Ring Seal

For special air and gas applications requiring superior sealing, optional carbon ring seals are available with purge option.

or



MAX Seal (Mechanical Axial)

An innovation in dry seal technology, the MAX Seal reduces fugitive emissions by up to 67% when compared to traditional seal options. Ideal for landfill gas and applications handling toxic and explosive gases. Improves the safety of your operation while extending bearing life and lowering total cost of ownership.



PERFORMANCE & SPECIFICATIONS

Models to 41,000 cfm (70,000 m³/h)

HOFFMAN & LAMSON multistage centrifugal blower/exhauster models cover a broad performance range to meet our needs. Each base model presents its own unique performance characteristics and design features that are illustrated in the chart below and the air maps on the following pages.

60 Hz & 50 Hz models available

Our 900 series is the first line of multistage centrifugal blowers with a true 50Hz design. The optimized design offers up to 8% higher efficiency and high pressure capabilities when compared to 60Hz blowers that are modified for 50Hz operation.

CFSelect+ precision sizing service

To help customers select the optimal blower or exhauster for their operation, HOFFMAN & LAMSON engineers use CFSelect+, a computerized sizing service. CFSelect+ software can create an infinite number of performance curves for pressure, efficiency, temperature and power consumption. Based on the specific gas mixture, inlet conditions, flow and pressure/vacuum requirements, CF Select chooses the most appropriate model, impeller design, operating speeds or throttling options.



Choose from multiple drive options

HOFFMAN & LAMSON blowers and exhausters may be direct driven, V-belt driven or gearbox driven with an electric motor. Alternative drivers include steam turbines, diesel engines, gasoline engines and liquid petroleum or methane gas engines. Also available is the Rigel Controls system. Rigel Controls automatically adjusts airflow output to match the actual airflow demand. The blower/exhauster power requirement adjusts automatically resulting in energy savings. Your representative can work with you to determine the best drive option and configuration to match your application.

Size & Performance to Fit Your Application

With 24 models to choose from and the ability to specify a variety of manufacturing options, you can be assured that the blower or exhauster you order will deliver the performance you expect. In addition to the base models available, customers can choose from a variety of design options such as special coatings, alternative component materials, oil or grease lubrication, special seals, drive couplings and power sources. The HOFFMAN & LAMSON blower/exhauster you specify is then manufactured according to your unique application and requirements.

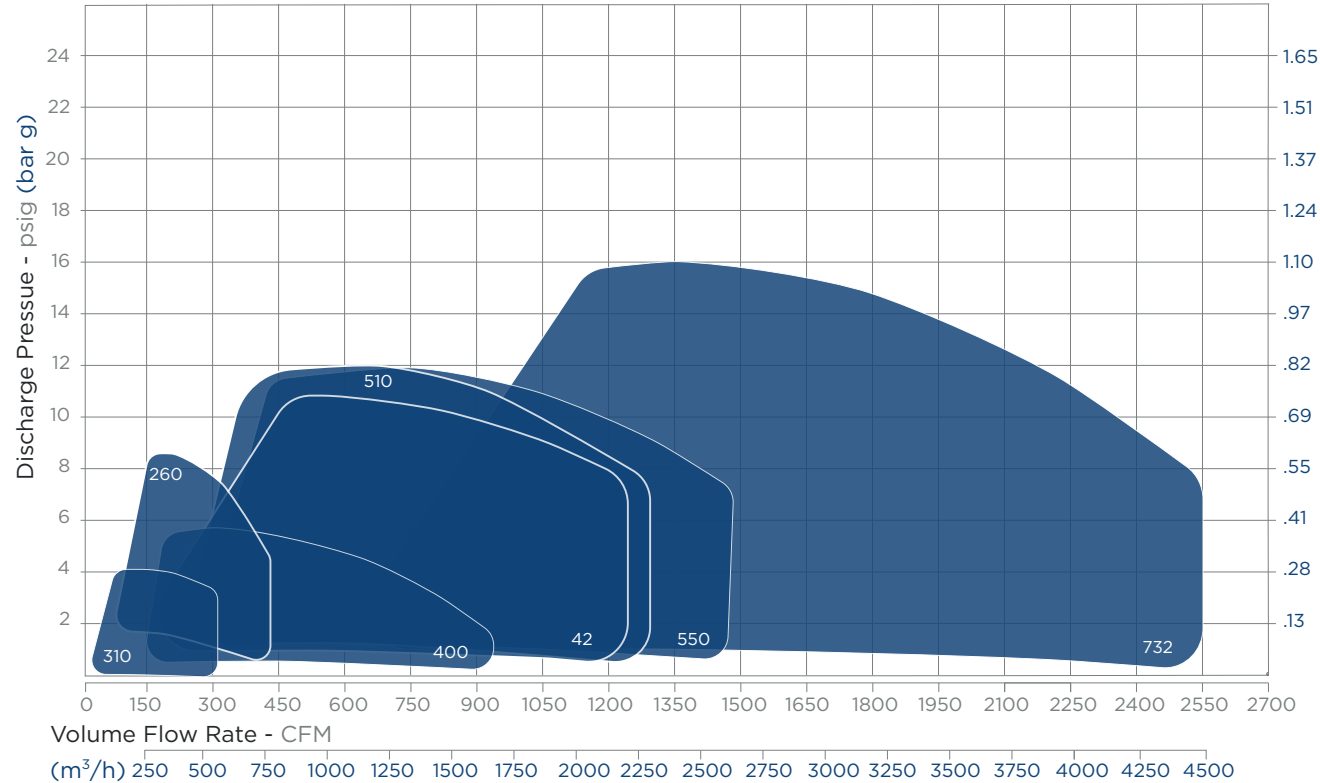
Performance Tested

HOFFMAN & LAMSON blowers and exhausters are tested in our state-of-the-art test labs in our global manufacturing and assembly plants. Using the most sophisticated testing equipment available in the industry, we test units up to 3,000 (2200 KW) horsepower in accordance with the latest edition of the ASME test code PTC-10, ISO and all other applicable international standards at our Bentleyville, Pennsylvania plant. Units are brought into this two-story laboratory and connected to a specialized power unit and precision monitoring equipment. The blower/exhauster is then tested and evaluated for performance characteristics, noise level, and vibration. Overall performance data is captured in real time for performance curve evaluation and documentation. We frequently host performance testing for customers and inspectors from all over the world.

PERFORMANCE & SPECIFICATIONS

Small Inlet Models: 2.5 to 6 in (6.35 to 15.21 cm)

@14.7 PSIA [1 bar], 68°F [20°C] | 36%RH, speed: 3550 RPM

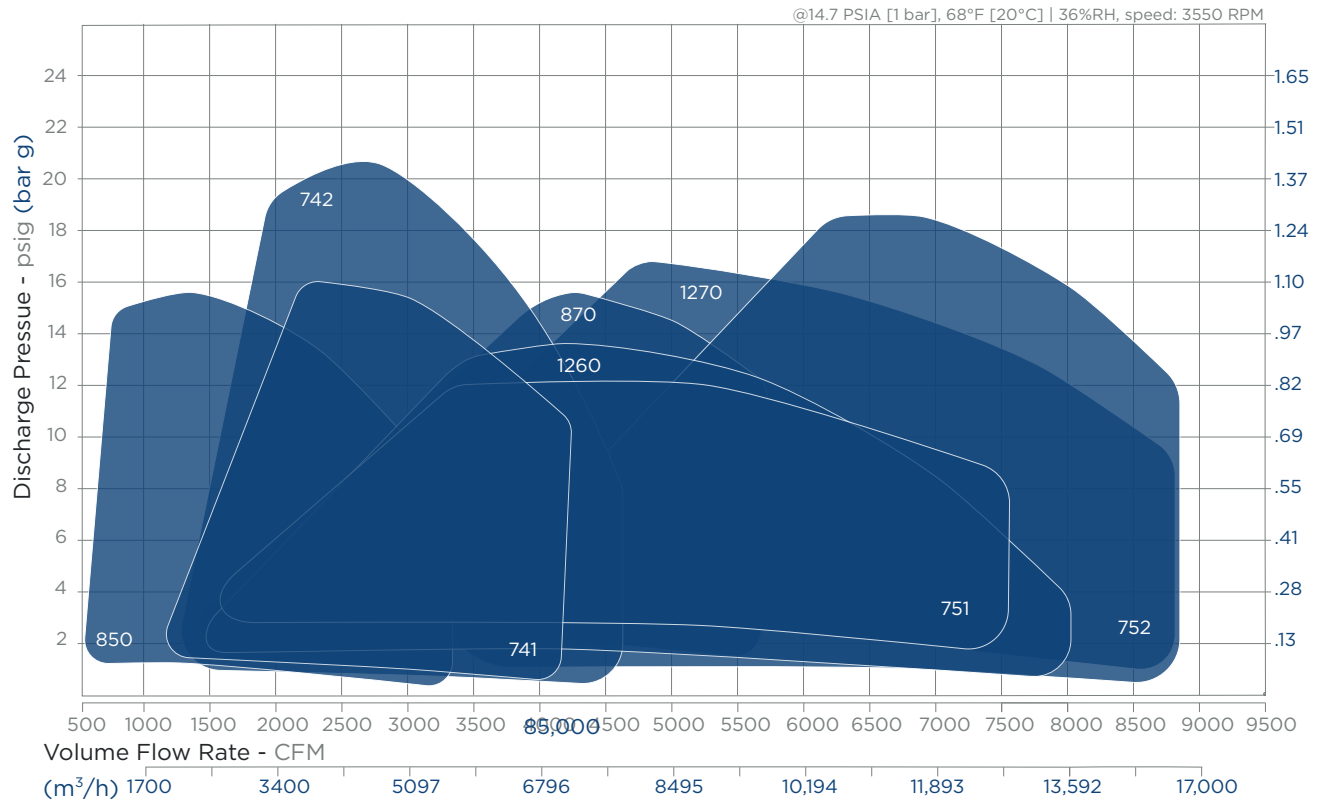


Blower Model	310	260	400	42	510	550	732
Blower/Exhauster Capacity							
Minimum Flow (cfm)	60	100	70	50	150	200	400
Maximum Flow (cfm)	450	440	1,050	1,200	1,300	1,300	2,400
Minimum Flow (m³/h)	405	170	120	85	255	340	650
Maximum Flow (m³/h)	765	680	1,785	2,050	2,210	2,210	4,100
Maximum Pressure (psig)	7.4	8.6	7.2	9.75	11.8	11.8	15.2
Maximum Pressure (bar)	0.6	0.6	0.51	0.67	0.81	0.81	1.05
Maximum Vacuum (inHg)	11.2	11.2	9.9	12	13.7	13.7	15
Maximum Vacuum (mmHg)	284	284	251	300	348	348	380
Maximum Number of Stages	11	5	10	8	10	10	10
Design Benefits							
Single Baffle Ring						■	■
Multiple Baffle Rings (MBR)							■
Balance Piston	No	No	No	No	No	No	8-10 STG
Lubrication	Grease	Grease	Grease	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil
Auto-Lubrication System	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Labyrinth Seal	■	■	■		■	■	■
Carbon Ring Seal				■	○	○	○
MAX (Mechanical Axial) Seal	No	No	No	No	Yes	Yes	Yes
Connections							
Inlet (125# ANSI)	3"	2 1/2"	5"	6"	5"	6"	6"
Outlet (125# ANSI)	3"	2 1/2"	5"	6"	5"	5"	6"

Information is approximate and subject to change without notice. Performances noted here are typical and not job specific. Consult with a HOFFMAN & LAMSON Representative for job specific blower or exhauster performance sizing.

■ = Standard ○ = Optional

Medium Inlet Models: 8 to 12 in (20.3 to 30.5 cm)



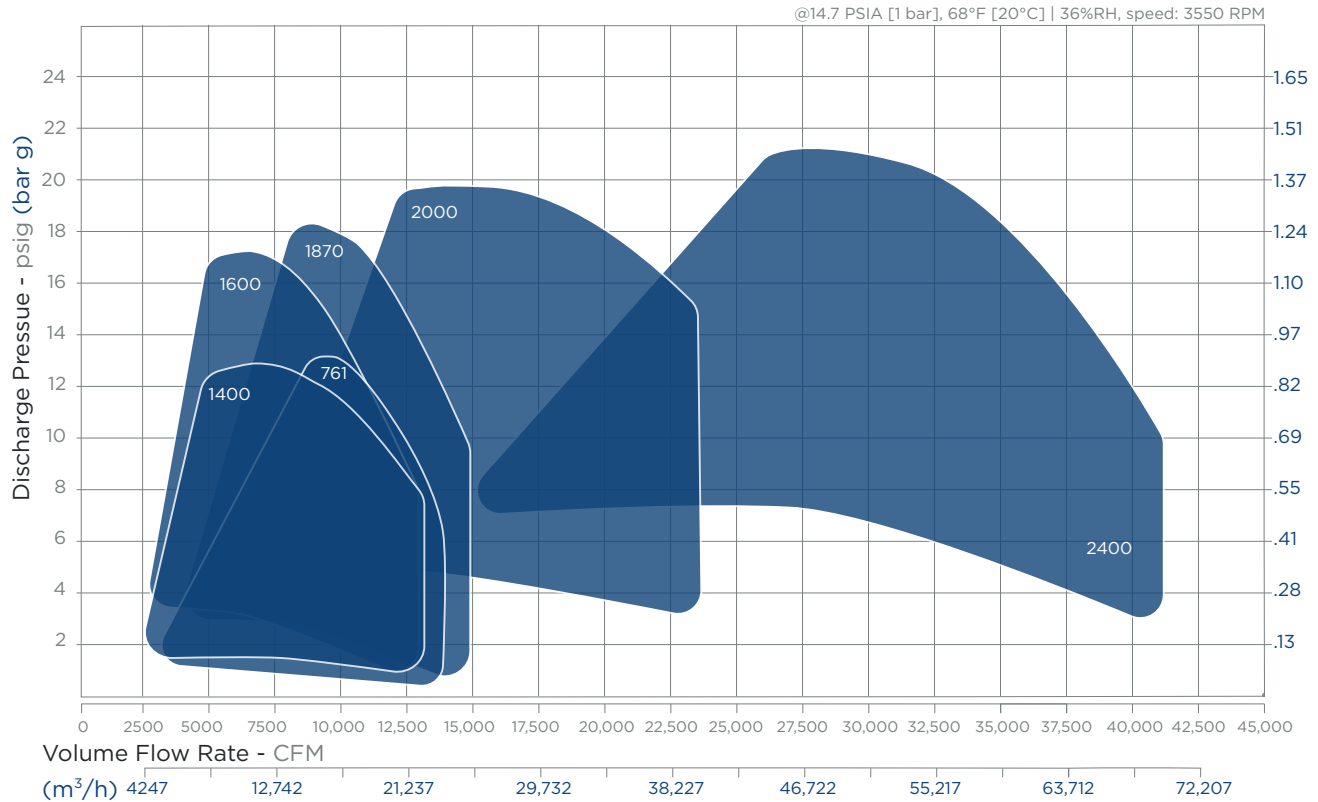
Blower Model	850	741	742	870	1260	1270	751	752
Blower/Exhauster Capacity								
Minimum Flow (cfm)	550	650	700	1,000	1,250	1,175	950	3,250
Maximum Flow (cfm)	3,200	4,400	4,800	5,500	8,000	8,500	8,500	9,000
Minimum Flow (m³/h)	935	1,100	1,200	1,700	2,125	2,000	1,600	5,500
Maximum Flow (m³/h)	5,440	7,500	8,100	9,350	13,600	14,400	14,500	15,300
Maximum Pressure (psig)	14.7	16	20.8	17	14.3	17.3	12.5	19.5
Maximum Pressure (bar)	1.01	1.1	1.43	1.17	0.99	1.2	0.86	1.35
Maximum Vacuum (inHg)	15.2	15.5	18	16	14.8	16.2	13.7	17
Maximum Vacuum (mmHg)	386	380	450	406	375	412	350	425
Maximum Number of Stages	9	9	11	9/10*	8	8/9*	7	10
Design Benefits								
Single Baffle Ring	■	■	■	■	■		■	■
Multiple Baffle Rings (MBR)		■	■	■		■		
Balance Piston	No	8-10 STG	7-11 STG	5-10 STG	No	4-9 STG	No	4-10 STG
Lubrication	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil	Oil	Oil
Auto-Lubrication System	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Labyrinth Seal	■	■	■	■	■	■	■	■
Carbon Ring Seal	○	○	○	○	○	○	○	○
MAX (Mechanical Axial) Seal	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Connections								
Inlet (125# ANSI)	8"	8"	10"	10"	12"	14"	12"	14"
Outlet (125# ANSI)	8"	8"	8"	8"	12"	12"	12"	10"

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PERFORMANCE & SPECIFICATIONS

Large Inlet Models: 14 to 30 in (35.5 to 77.5 cm)

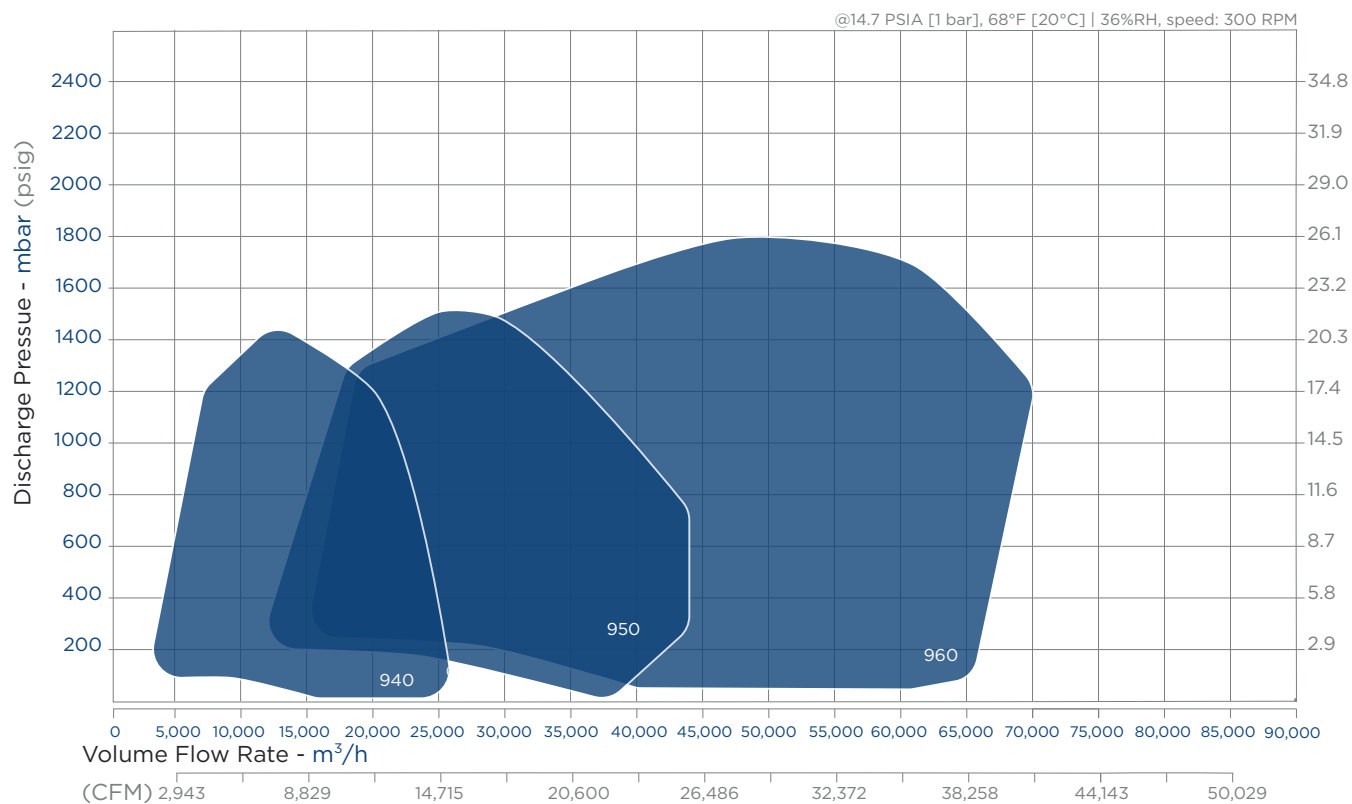


Blower Model	1400	1600	761	1870	2000	2400
Blower/Exhauster Capacity						
Minimum Flow (cfm)	2,300	3,000	1,250	3,000	5,000	10,000
Maximum Flow (cfm)	14,500	12,000	14,500	15,000	32,000	40,000
Minimum Flow (m³/h)	3,900	5,100	2,100	5,100	8,500	17,000
Maximum Flow (m³/h)	24,650	20,400	24,600	25,500	50,800	68,000
Maximum Pressure (psig)	12.6	17	13	19	24.7	22
Maximum Pressure (bar)	0.87	1.17	0.9	1.31	1.7	1.52
Maximum Vacuum (inHg)	13.8	16	14	17	18.8	17.6
Maximum Vacuum (mmHg)	351	406	350	432	477	447
Maximum Number of Stages	7/8*	7/8*	7	7	7/8*	5/6*
Design Benefits						
Single Baffle Ring	■		■			
Multiple Baffle Rings (MBR)		■			■	■
Balance Piston	No	4-8 STG	5-8 STG	3-7 STG	3-8 STG	3-6 STG
Lubrication	Oil	Oil	Oil	Oil	Oil	Oil
Auto-Lubrication System	No	No	No	No	No	No
Labyrinth Seal	■	■	■	■	■	■
Carbon Ring Seal	○	○	○	○	○	○
MAX (Mechanical Axial) Seal	Yes	No	Yes	No	No	No
Connections						
Inlet (125# ANSI)	18"	16"	14"	20"	20"	24"
Outlet (125# ANSI)	14"	14"	14"	18"	18"	20"

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900 Series: Optimized Performance for 50 Hz Markets



Blower Model	940	950	960
Blower/Exhauster Capacity			
Minimum Flow (cfm)	3,079	3,884	7,348
Maximum Flow (cfm)	15,417	26,702	41,342
Minimum Flow (m³/h)	5,232	6,598	12,545
Maximum Flow (m³/h)	26,193	45,365	70,238
Maximum Pressure (psig)	26.69	26.41	25.72
Maximum Pressure (bar)	1.84	1.68	1.77
Maximum Vacuum (inHg)	0.10	0.40	1.40
Maximum Vacuum (mbar abs)	400	380	425
Maximum Number of Stages	9	8	6
Design Benefits			
Single Baffle Ring	No	No	No
Multiple Baffle Rings (MBR)	No	No	No
Balance Piston	Yes	Yes	Yes
Lubrication	Oil	Oil	Oil
Labyrinth Seal	Yes	Yes	Yes
Carbon Ring Seal	Yes	Yes	Yes
Connections			
Inlet (125# ANSI)	DN 400	DN 500	DN 600
Outlet (125# ANSI)	DN 350	DN 450	DN 500

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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.



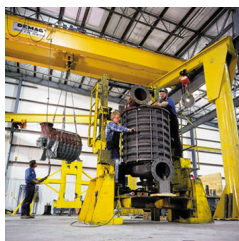
HOFFMAN REVOLUTION™ High Speed Centrifugal

The HOFFMAN REVOLUTION High Speed Centrifugal Blower utilizes advanced centrifugal engineering technologies that deliver up to 45% energy savings, provide increased reliability with little or no maintenance, and come factory pre-wired and tested in an ergonomically designed sound enclosure for plug-and-play operation.



Controls & Energy Management

Considering an efficiency upgrade? HOFFMAN & LAMSON upgrades and High Speed Centrifugal 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.




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Denver**

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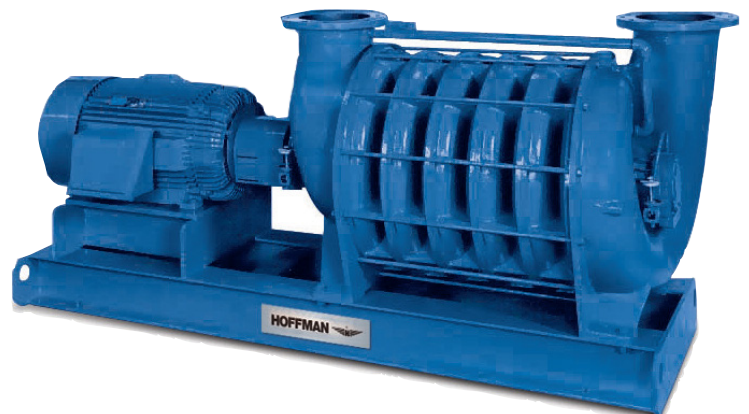
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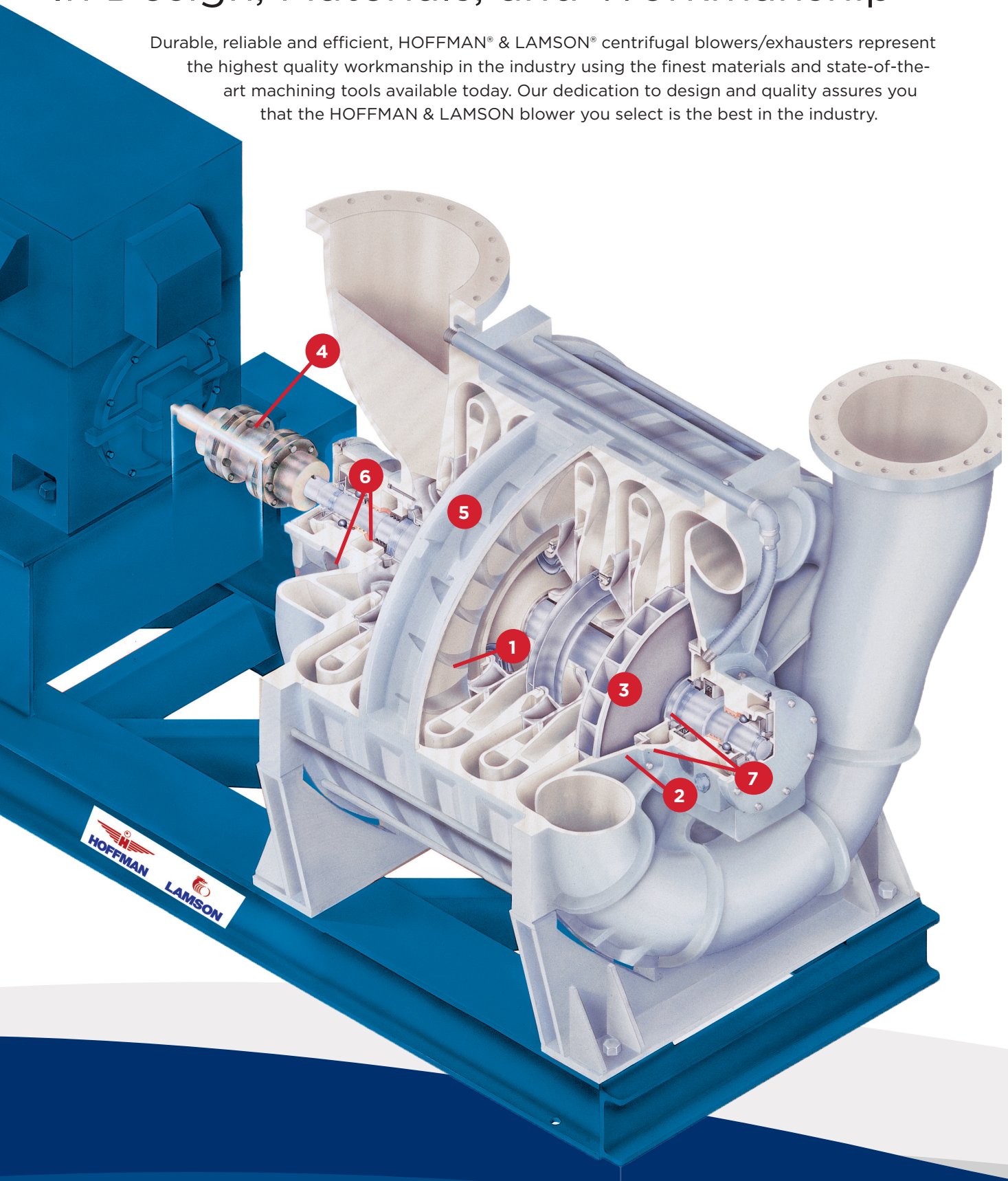
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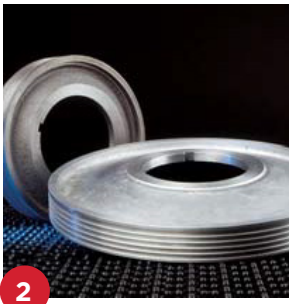
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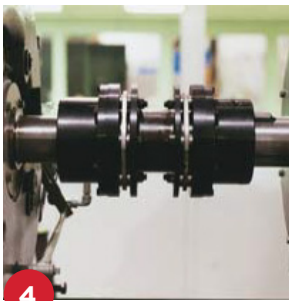
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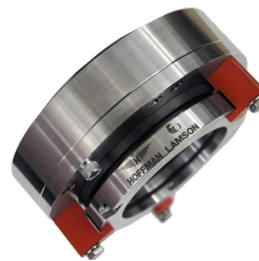
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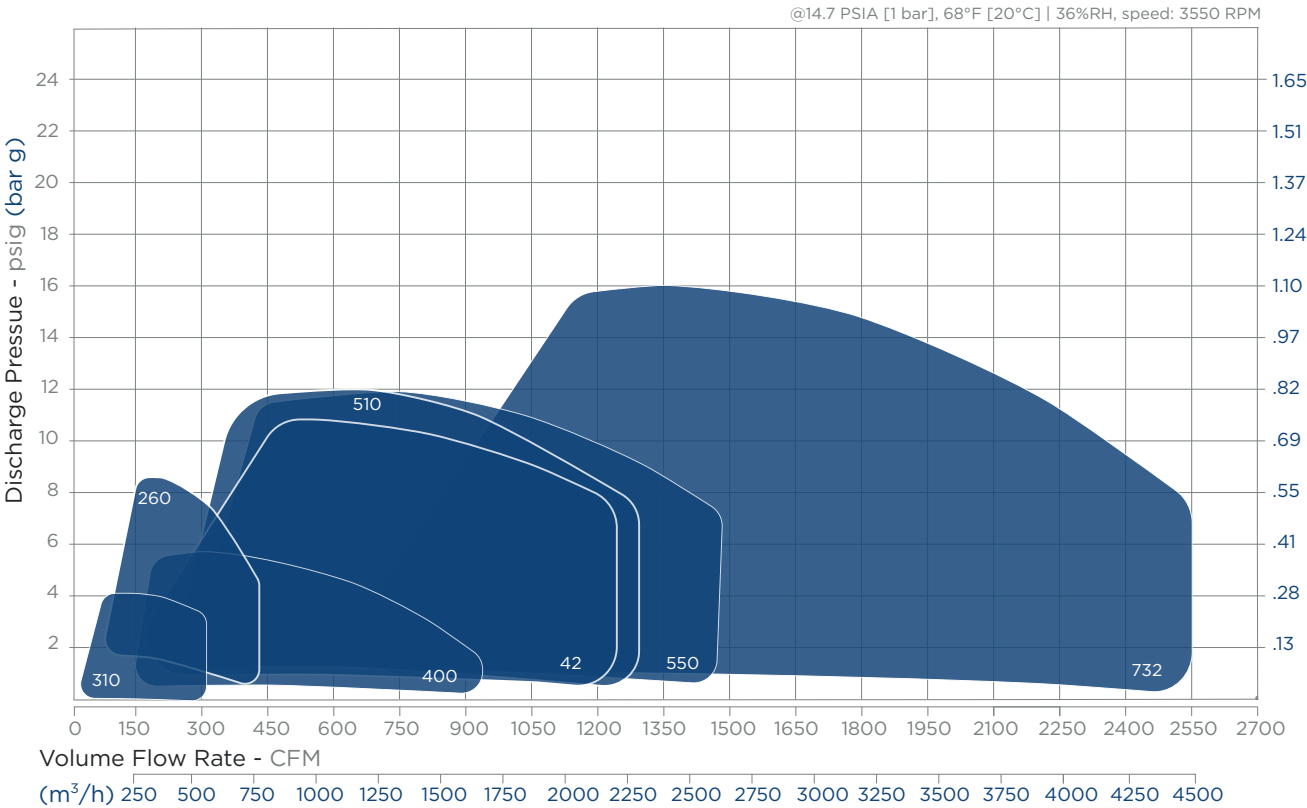
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PERFORMANCE & SPECIFICATIONS

Small Inlet Models: 2.5 to 6 in (6.35 to 15.21 cm)

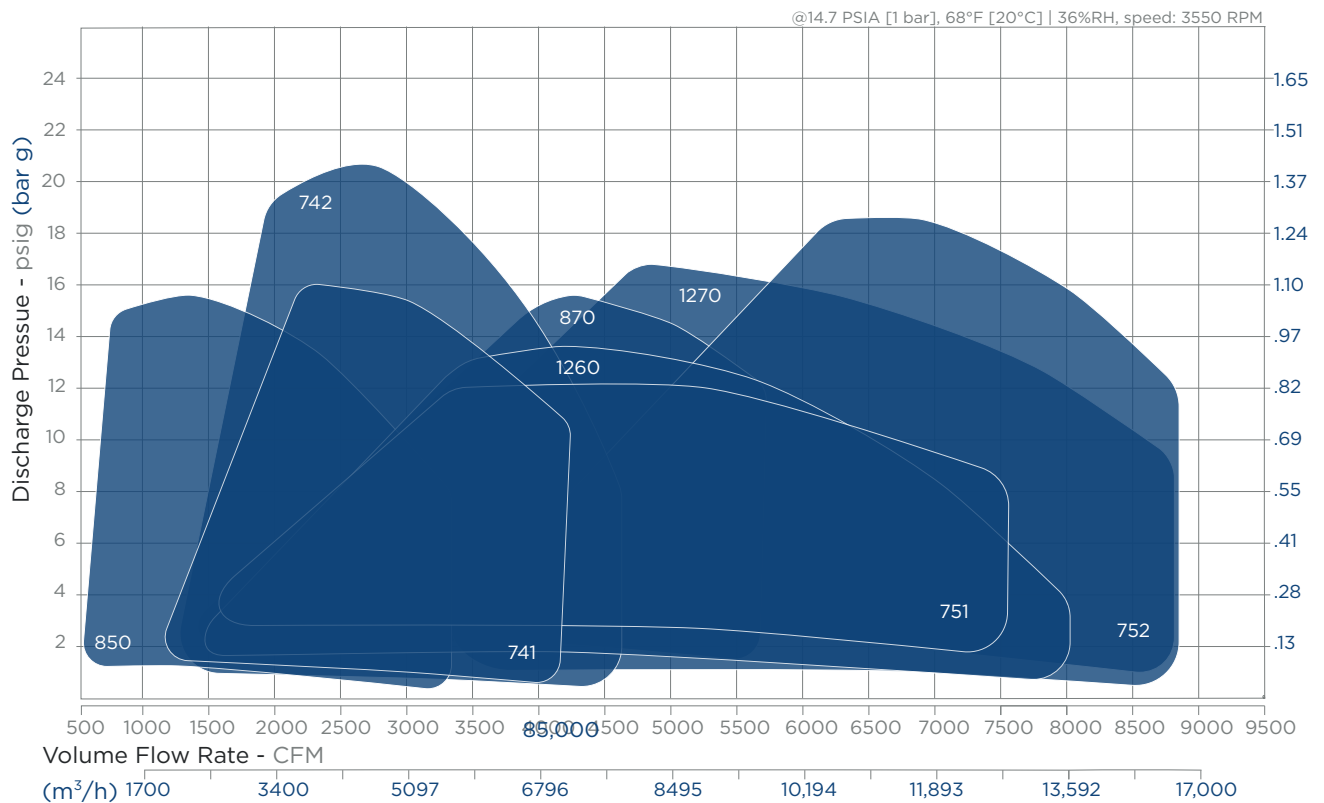


Blower Model	310	260	400	42	510	550	732
Blower/Exhauster Capacity							
Minimum Flow (cfm)	60	100	70	50	150	200	400
Maximum Flow (cfm)	450	440	1,050	1,200	1,300	1,300	2,400
Minimum Flow (m³/h)	405	170	120	85	255	340	650
Maximum Flow (m³/h)	765	680	1,785	2,050	2,210	2,210	4,100
Maximum Pressure (psig)	7.4	8.6	7.2	9.75	11.8	11.8	15.2
Maximum Pressure (bar)	0.6	0.6	0.51	0.67	0.81	0.81	1.05
Maximum Vacuum (inHg)	11.2	11.2	9.9	12	13.7	13.7	15
Maximum Vacuum (mmHg)	284	284	251	300	348	348	380
Maximum Number of Stages	11	5	10	8	10	10	10
Design Benefits							
Single Baffle Ring						■	■
Multiple Baffle Rings (MBR)							■
Balance Piston	No	No	No	No	No	No	8-10 STG
Lubrication	Grease	Grease	Grease	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil
Auto-Lubrication System	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Labyrinth Seal	■	■	■		■	■	■
Carbon Ring Seal				■	○	○	○
MAX (Mechanical Axial) Seal	No	No	No	No	Yes	Yes	Yes
Connections							
Inlet (125# ANSI)	3"	2 1/2"	5"	6"	5"	6"	6"
Outlet (125# ANSI)	3"	2 1/2"	5"	6"	5"	5"	6"

Information is approximate and subject to change without notice. Performances noted here are typical and not job specific. Consult with a HOFFMAN & LAMSON Representative for job specific blower or exhauster performance sizing.

■ = Standard ○ = Optional

Medium Inlet Models: 8 to 12 in (20.3 to 30.5 cm)



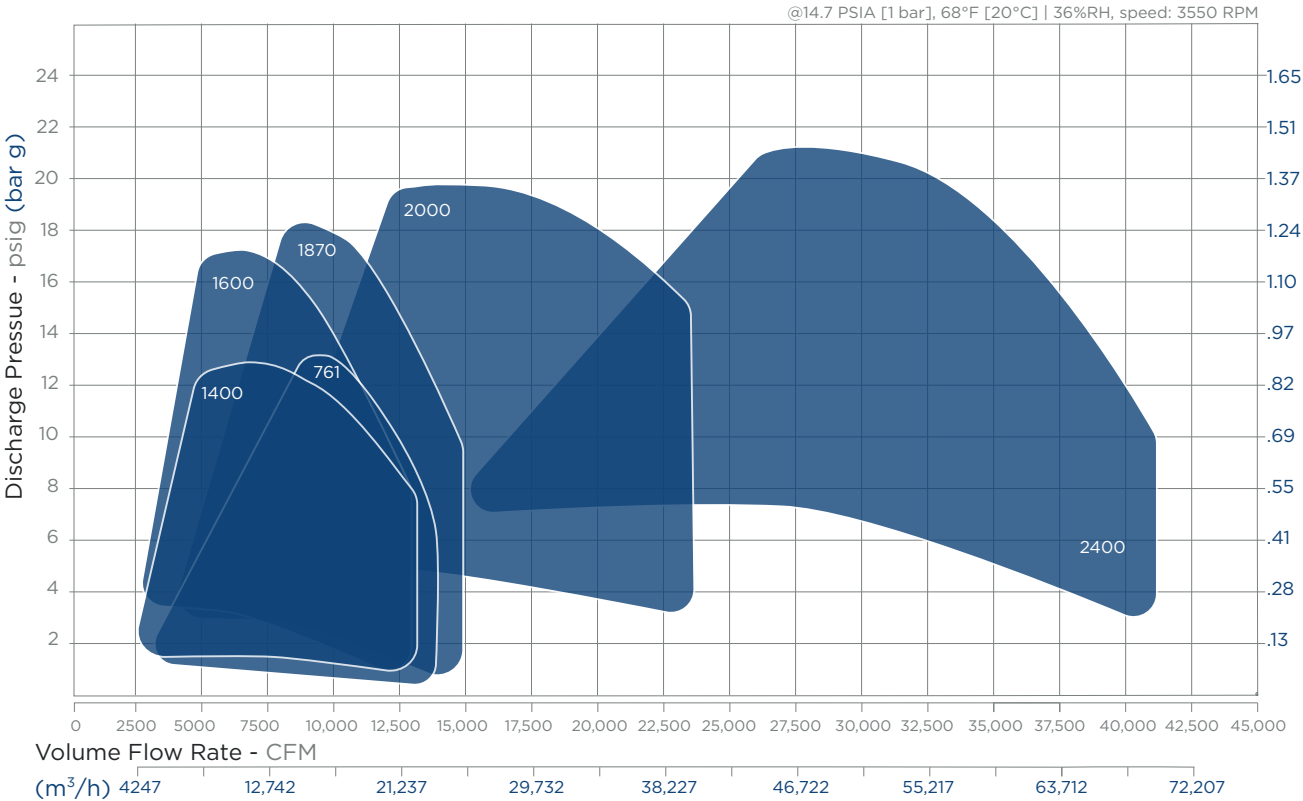
Blower Model	850	741	742	870	1260	1270	751	752
Blower/Exhauster Capacity								
Minimum Flow (cfm)	550	650	700	1,000	1,250	1,175	950	3,250
Maximum Flow (cfm)	3,200	4,400	4,800	5,500	8,000	8,500	8,500	9,000
Minimum Flow (m ³ /h)	935	1,100	1,200	1,700	2,125	2,000	1,600	5,500
Maximum Flow (m ³ /h)	5,440	7,500	8,100	9,350	13,600	14,400	14,500	15,300
Maximum Pressure (psig)	14.7	16	20.8	17	14.3	17.3	12.5	19.5
Maximum Pressure (bar)	1.01	1.1	1.43	1.17	0.99	1.2	0.86	1.35
Maximum Vacuum (inHg)	15.2	15.5	18	16	14.8	16.2	13.7	17
Maximum Vacuum (mmHg)	386	380	450	406	375	412	350	425
Maximum Number of Stages	9	9	11	9/10*	8	8/9*	7	10
Design Benefits								
Single Baffle Ring	■	■	■	■	■		■	■
Multiple Baffle Rings (MBR)		■	■	■		■		
Balance Piston	No	8-10 STG	7-11 STG	5-10 STG	No	4-9 STG	No	4-10 STG
Lubrication	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil	Oil	Oil
Auto-Lubrication System	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Labyrinth Seal	■	■	■	■	■	■	■	■
Carbon Ring Seal	○	○	○	○	○	○	○	○
MAX (Mechanical Axial) Seal	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Connections								
Inlet (125# ANSI)	8"	8"	10"	10"	12"	14"	12"	14"
Outlet (125# ANSI)	8"	8"	8"	8"	12"	12"	12"	10"

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■ = Standard ○ = Optional

PERFORMANCE & SPECIFICATIONS

Large Inlet Models: 14 to 30 in (35.5 to 77.5 cm)

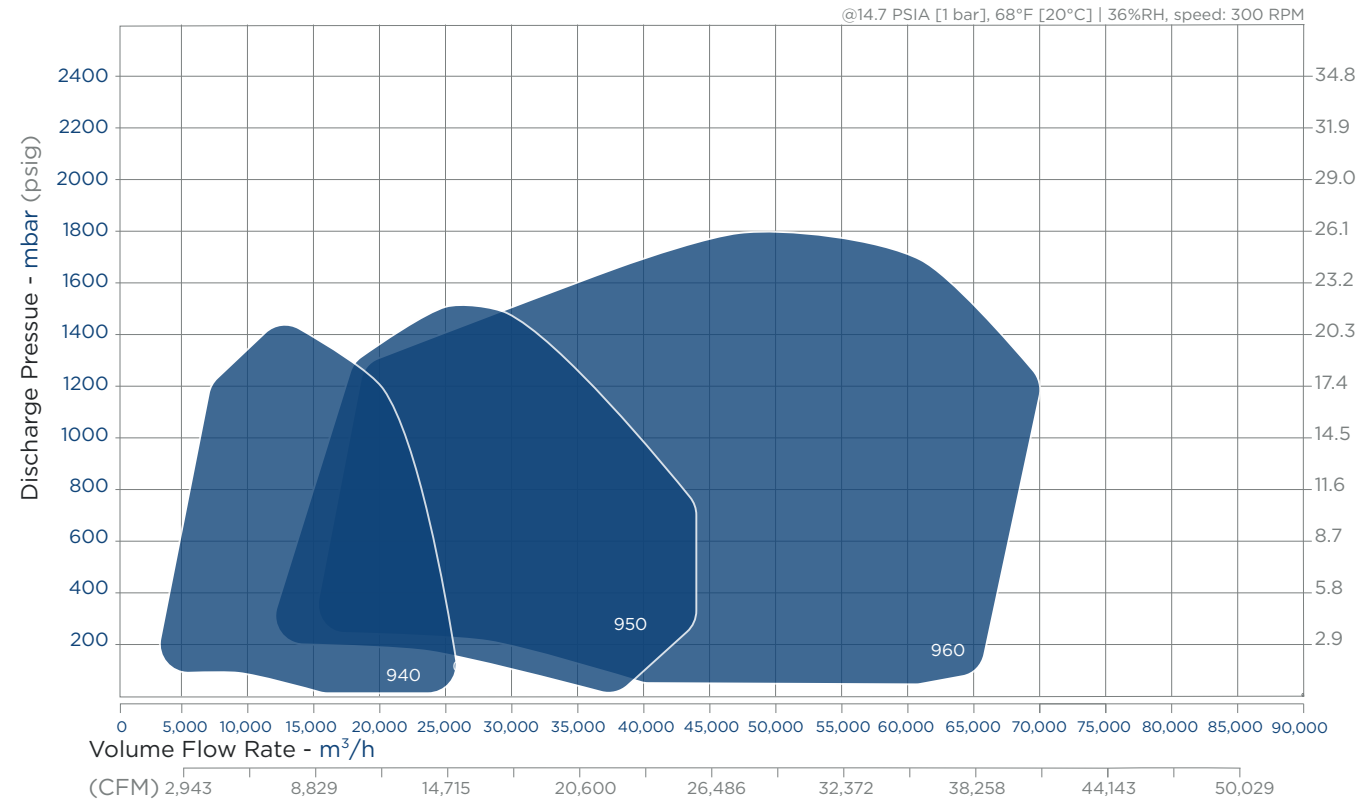


Blower Model	1400	1600	761	1870	2000	2400
Blower/Exhauster Capacity						
Minimum Flow (cfm)	2,300	3,000	1,250	3,000	5,000	10,000
Maximum Flow (cfm)	14,500	12,000	14,500	15,000	32,000	40,000
Minimum Flow (m³/h)	3,900	5,100	2,100	5,100	8,500	17,000
Maximum Flow (m³/h)	24,650	20,400	24,600	25,500	50,800	68,000
Maximum Pressure (psig)	12.6	17	13	19	24.7	22
Maximum Pressure (bar)	0.87	1.17	0.9	1.31	1.7	1.52
Maximum Vacuum (inHg)	13.8	16	14	17	18.8	17.6
Maximum Vacuum (mmHg)	351	406	350	432	477	447
Maximum Number of Stages	7/8*	7/8*	7	7	7/8*	5/6*
Design Benefits						
Single Baffle Ring	■		■			
Multiple Baffle Rings (MBR)		■			■	■
Balance Piston	No	4-8 STG	5-8 STG	3-7 STG	3-8 STG	3-6 STG
Lubrication	Oil	Oil	Oil	Oil	Oil	Oil
Auto-Lubrication System	No	No	No	No	No	No
Labyrinth Seal	■	■	■	■	■	■
Carbon Ring Seal	○	○	○	○	○	○
MAX (Mechanical Axial) Seal	Yes	No	Yes	No	No	No
Connections						
Inlet (125# ANSI)	18"	16"	14"	20"	20"	24"
Outlet (125# ANSI)	14"	14"	14"	18"	18"	20"

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■ = Standard ○ = Optional

900 Series: Optimized Performance for 50 Hz Markets



Blower Model	940	950	960
Blower/Exhauster Capacity			
Minimum Flow (cfm)	3,079	3,884	7,348
Maximum Flow (cfm)	15,417	26,702	41,342
Minimum Flow (m³/h)	5,232	6,598	12,545
Maximum Flow (m³/h)	26,193	45,365	70,238
Maximum Pressure (psig)	26.69	26.41	25.72
Maximum Pressure (bar)	1.84	1.68	1.77
Maximum Vacuum (inHg)	0.10	0.40	1.40
Maximum Vacuum (mbar abs)	400	380	425
Maximum Number of Stages	9	8	6
Design Benefits			
Single Baffle Ring	No	No	No
Multiple Baffle Rings (MBR)	No	No	No
Balance Piston	Yes	Yes	Yes
Lubrication	Oil	Oil	Oil
Labyrinth Seal	Yes	Yes	Yes
Carbon Ring Seal	Yes	Yes	Yes
Connections			
Inlet (125# ANSI)	DN 400	DN 500	DN 600
Outlet (125# ANSI)	DN 350	DN 450	DN 500

Information is approximate and subject to change without notice. Performances noted here are typical and not job specific. Consult with a HOFFMAN & LAMSON Representative for job specific blower or exhauster performance sizing.



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HOFFMAN & LAMSON Multistage Centrifugal Blowers

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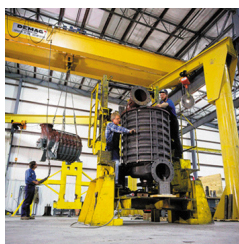
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Considering an efficiency upgrade? HOFFMAN & LAMSON upgrades and High Speed Centrifugal Blower solutions deliver increased efficiency and improved reliability.



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