



**HOFFMAN**



**LAMSON**

by Gardner Denver

MULTISTAGE CENTRIFUGAL BLOWERS/EXHAUSTERS

# Standard Packages Selection Guide



# HOFFMAN® & LAMSON®

## Standard Blower Packages Selection Guide

For centrifugal blower solutions across a wide range of applications, trust industry leader HOFFMAN & LAMSON. Our Standard Blower Packages are ready for shipment within **8 weeks** from receipt of your order. Optional customizations (“Standard-Plus”) are available, **requiring an additional 2 weeks** lead time.

Choose the optimal Standard Blower Package for your process based on the number of stages, drive position, seal type, and lubrication required. This selection guide contains all the blower packages in our reduced lead time portfolio in a single, easy-to-understand document. Use this guide to lead you through the process of selecting the right multistage centrifugal blower package for your application.

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

Blower Model	LAMSON 310	HOFFMAN 42	LAMSON 550	HOFFMAN 732	LAMSON 850	HOFFMAN 741	LAMSON 1260	HOFFMAN 751
<b>Connections</b>								
Position #1 Inlet (125# ANSI)	3"	6"	6"	6"	8"	8"	12"	12"
Position #1 Outlet (125# ANSI)	3"	6"	5"	6"	8"	8"	12"	12"
<b>Blower/Exhauster Capacity</b>								
Minimum Flow (cfm)	60	50	200	400	550	650	1,250	950
Maximum Flow (cfm)	450	1,200	1,300	2,400	3,200	4,400	8,000	8,500
Minimum Flow (m³/h)	405	85	340	650	935	1,100	2,125	1,600
Maximum Flow (m³/h)	765	2,050	2,210	4,100	5,440	7,500	13,600	14,500
Maximum Pressure (psig)	7.4	9.75	11.8	15.2	14.7	16	14.3	12.5
Maximum Pressure (bar)	0.6	0.67	0.81	1.05	1.01	1.1	0.99	0.86
Maximum Vacuum (inHg)	11.2	12	13.7	15	15.2	15.5	14.8	13.7
Maximum Vacuum (mmHg)	284	300	348	380	386	380	375	350
<b>Design Benefits</b>								
Available Number of Stages	3-8	3-8	3-8	3-8	3-8	3-8	3-7	3-6
Single Baffle Ring			■	■	■	■	■	■
Lubrication	Grease	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil	Grease/Oil	Oil
Labyrinth Seal	■		■	■	■	■	■	■
Gas Construction - Packing with Labyrinth	■	■	■	■	■	■	■	No Gas
Carbon Ring Seal		■	■	■	■	■	■	■
Drive Position - Inlet Driven	■	■	■	■	■	■	■	■
Drive Position - Outlet Driven		■		■		■		■
<b>Motor *</b>								
NEMA Frame Size	182T-215T	213T-405TS	213T-405TS	213T-405TS	324TS-447TS	324TS-447TS	364TS-447TS	364TS-447TS

Selecting a quantity of 3 or less per order from the above table are considered a standard package. Blowers sold as bare or packaged, if packaged, a motor is included. Performances noted here are typical and not job specific. Consult with a HOFFMAN & LAMSON Representative for job specific blower or exhauster performance sizing.

■ = Standard \* Standard motors are TEFC. NEMA Premium Efficiency. 3ph, 60/50 Hz, 208/230-490 or 575V, 2 Pole.

## STANDARD MATERIALS OF CONSTRUCTION

- Casing ..... ASTM A48 Class 30 Cast Iron
- Bearing Housings ..... ASTM A48 Class 30 Cast Iron
- Bearing Cap ..... ASTM A48 Class 30 Cast Iron
- Labyrinth Seal ..... ASTM B86 Z35631 Alloy Zinc Aluminum 12
- Carbon Ring Seal ..... ASTM C695 Fine Grain Molded Graphite
- Joint Sealing ..... RTV Silicone Compound
- Shaft ..... ASTM A322 Grade 4140CT Hot Rolled (Lamson)
- Shaft ..... ASTM A108 Grade 1045 HRS (Hoffman)
- Impeller ..... ASTM SC64C Sr-319 Cast Aluminum
- Blower Base ..... ASTM A36 Hot Rolled Structural Steel
- Motor Pedestal ..... ASTM A36 Hot Rolled Structural Steel
- Isolation Base Pads ..... Suitable Resilient Material
- Finish ..... Universal Primer - Acrylic Top Coat

# HOFFMAN® & LAMSON®

## Standard Plus Selection Guide

Hoffman & Lamson is proud to offer additional options to customize our standard packages for unique situations. Please note, **additional lead time of 2 weeks** will be applied to orders selecting up to 6 customizations.

### OTHER OPTIONS AVAILABLE

- Baked Phenolic Coating - Plasite®
- Red Oxide Paint on Cast Iron Internals
- HOFFMAN & LAMSON Standard High Temperature Paint
- Non-Oxygen Cleaning
- LAMSON Models Outlet Driven
- Export Crating
- External Drain Tubing with Ball Valve
- HOFFMAN & LAMSON Standard External Oilers
- Custom Motor with Lead Time Under 2 Weeks \*
- Mount Customer-Supplied Motor \*\*
- High Temperature Oil
- Additional Unwitnessed Testing Including
  - ASME PTC-10 Performance
  - Sound Level
  - Hydrostatic
  - Sequential or Residual Balance
  - Seal Leak
  - Vibration Signature

Selecting a quantity of more than 3 per order from the above table will require additional lead time. Request a quote. Consult with a HOFFMAN & LAMSON Representative for job specific blower or exhauster performance information.

\* Standard motors are TEFC. NEMA Premium Efficiency. 3HP, 60/50 Hz, 208/230-490 or 575V, 2 Pole.

\* Alternate NEMA frames may be available. IEC or special frame will require custom quote.

\*\* Supplied motors are required at H&L Factory **at least 2 weeks prior** to planned ship date.

## FREQUENTLY ASKED QUESTIONS



### Q. Can I choose the paint color or paint system?

**A.** All Standard Packages are offered in color RAL 5005 Signal Blue. Standard paint system is an Acrylic Polyurethane Paint with an Epoxy Primer. Custom color and paint systems are available on custom packages only.

### Q. What documentation is provided?

**A.** Each bare blower comes with a standard blower O&M manual and Standard Blower Assembly Drawing. Complete packages also include a standard Unit Outline Drawing. All documentation provided in electronic format only.

### Q. What instrumentation is included in a Standard Package?

**A.** Base Standard Packages do not include instrumentation. HOFFMAN & LAMSON standard blower vibration and temperature sensors can be added at additional cost with no change in lead time.

### Q. Can I witness the testing of the unit?

**A.** This is not part of the offering for Standard Packages. Witness testing is available with potential added lead time. Consult HOFFMAN & LAMSON if witness testing is required.

### Q. Can I order a Standard Package with variable inlet or outlet head position?

**A.** Only standard position #1 inlet and outlet heads are available within the time-frame of Standard Packages. Consult HOFFMAN & LAMSON for a quote when other head positions are required.

### Q. Are Standard Packages available for projects requiring approval prior to manufacturing?

**A.** Approval packages are available using standard documentation and relevant package configuration data sheets. Time for standard approval package is up to 1 week after receipt of order. Production lead time is applied following written release to manufacture.

### Q. How do I know if my custom motor request results in greater than 2 weeks lead time for the motor?

**A.** Consult Hoffman & Lamson with your requirements. The availability of a standard package will be confirmed or a special quotation will be provided.

### Q. Does the lead time for Standard Packages include the ability to supply accessories such as control panels or valves with the blowers?

**A.** Consult Hoffman & Lamson for a quote. There are control panels and other sets of accessories that are available within the reduced lead times. Each should be reviewed in detail for confirmation.

# 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.



## Controls & Energy Management

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



## Quick Ship Program

Ensure your HOFFMAN & LAMSON centrifugal blower stands the test of time with certified, OEM parts, available, in stock, and direct to your door in one (1) business day. Every component is HOFFMAN & LAMSON CERTIFIED™ and built to our legendary quality standards, using the latest designs for optimum efficiency and reliability. Performance is guaranteed and backed by our factory warranty.



## 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.

**Gardner Denver Nash, LLC**


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

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