



HOFFMAN

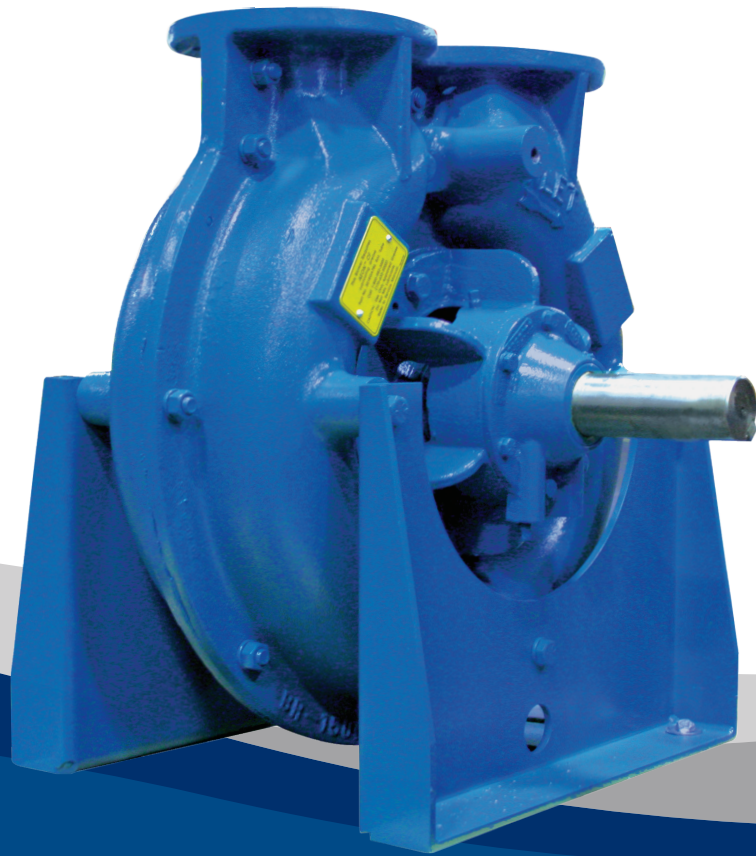


LAMSON

by Gardner Denver

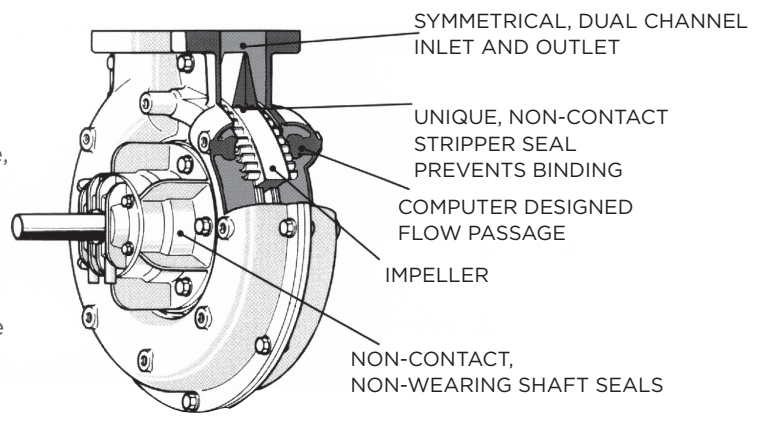
REGENERATIVE BLOWERS/EXHAUSTERS

TURBOTRON



FULL FLOW AND HALF FLOW REGENERATIVE BLOWERS/

The patented Lamson® TurboTron® Regenerative Full Flow and Half Flow blowers/exhausters are specifically designed to provide continuous flow and pulse-free air with the versatility to perform in numerous air applications. These regenerative blowers/exhausters are packaged in various pre-engineered “TurboPak” systems and are available as belt drive, direct drive, overhung and even VFD variable speed configurations. Its unique capabilities make the TurboTron Regenerative blower the choice in applications from wastewater treatment aeration and pneumatic conveying to chemical tank agitation and vacuum cleaning. Typical industries for TurboTron regenerative blowers include foundries, plating, plastics, pharmaceutical, pulp and paper and printing.



KEY FEATURES

Installed as a blower or exhauster, the Lamson TurboTron Regenerative unit features a revolutionary impeller design, achieving multistage compression with a single impeller. This unique design represents the best efficiency available in a regenerative blower/exhauster. The TurboTron regenerative blower delivers quiet, clean, smooth, pulse-free air with pressures to 13 psig and vacuum to 14 “Hg.

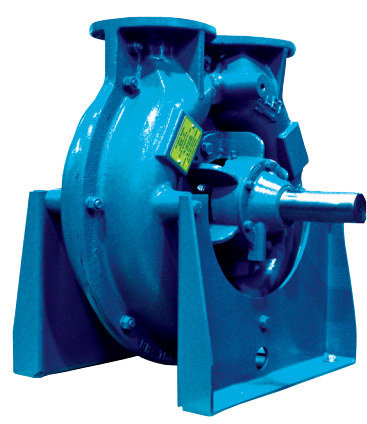
NOISE FREE/ TROUBLE-FREE

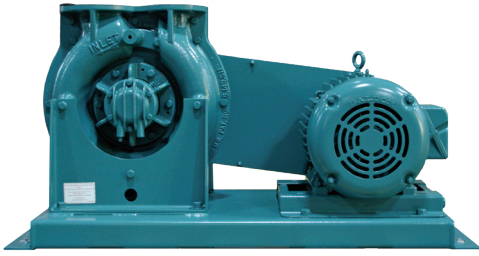
Noise and vibration are reduced. Even without an acoustical cover, the typical free field noise level is only 82 dBA at three feet (one meter).

This regenerative blower/exhauster is virtually maintenance free. There is only one moving part and no timing gears. The high tensile strength aluminum composite housing is corrosion resistant. Non-binding Teflon® is used in close tolerance areas. Bearings require only occasional greasing, and shaft seals are non-contacting and non-wearing.

VALUE

A revolutionary design, proven dependability and power make this blower/vacuum producer the best investment for the most demanding applications. Application assistance is available by contacting your local Hoffman/Lamson representative.



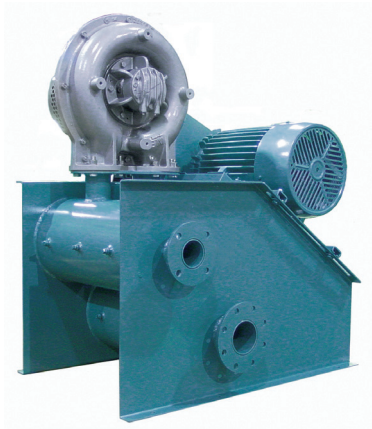


TURBOPAK ENGINEERED SYSTEMS

TurboTron's Full Flow and Half Flow TurboPak A, C and VFD are pre-engineered packages that include a patented TurboTron regenerative blower/exhauster assembled with a motor on a heavy-duty platform.

TURBOPAK A

TurboPak A is the economical and proven way to provide a constant flow of air at varying pressures.



TURBOPAK C

TurboPak C adds a silencer base with integrated inlet and discharge silencers for improved sound attenuation.

TURBOPAK VFD - Variable Speed

The Gardner Denver TurboPak VFD is designed to greatly improve turndown capability at very low overall cost. The TurboPak VFD is particularly well suited to the varying air demands of post aeration in wastewater treatment plants.



TURBOPAK VFD - Value

A TurboPak VFD was teamed with a small multistage centrifugal blower and compared to four other scenarios to determine the lowest overall cost option for a post aeration project in New Jersey. The following table summarizes how the TurboPak VFD/Multistage option was the most cost effective with the highest turndown ratio based on 2200 SCFM/6 psig.

POWER

MACHINE	MIN POWER (bhp)	MAX POWER (bhp)	OVERALL TURNDOWN (%)	% COST
TurboPak VFD and Multistage	17.0	100.9	92	100
Single Multistage	55.8	93.2	50	129
Two Multistage	36.8	109.0	70	136
Three Multistage	21.2	103.5	86	133
Single Multistage with VFD	34.3	114.3	64	173

TURBOTRON SPECIFICATIONS - FULL FLOW

FULL FLOW SERIES

Airflow to 900 cfm

Pressure to 13 psig

Vacuum to 14 "Hg



RPM		2	3	4	5	6	7	8	9	10	11	12	13
2000	SCFM	262	211	164	120								
	HP	5.1	7.1	9.1	11.1								
2800	SCFM	458	415	374	333	295	257	221					
	HP	9.0	11.7	14.3	17.0	19.7	22.5	25.2					
3700	SCFM	668	629	591	555	520	486	454	423	393	364		
	HP	15.3	18.9	22.4	22.8	29.3	32.9	36.6	40.4	44.1	47.6		
4500	SCFM	858	817	780	745	713	682	653	626	600	575	552	529
	HP	22.8	27.4	31.7	35.9	40.1	44.3	48.6	52.9	57.3	61.6	66.0	70.2

PRESSURE (psig)

RPM		3	4	5	6	7	8	9	10	11	12	13	14
2000	SCFM	258	217	179	143	109	77						
	HP	3.8	4.8	5.8	6.8	7.7	8.7						
2800	SCFM	428	393	352	312	274	235	199	163	128			
	HP	7.0	8.0	9.3	10.5	11.7	13.0	14.2	15.6	16.9			
3700	SCFM	630	583	536	490	446	402	359	318	278	239		
	HP	10.8	12.8	14.5	16.1	17.7	19.2	20.7	22.4	24.1	25.8		
4500	SCFM	810	757	702	648	596	546	498	452	407	364	323	283
	HP	15.7	18.0	20.3	22.3	24.2	26.0	27.8	29.5	31.3	33.2	35.0	36.7

VACUUM ("Hg)

TURBOTRON SPECIFICATIONS - HALF FLOW



HALF FLOW SERIES

Airflow to 450 cfm

Pressure to 13 psig

Vacuum to 14 "Hg

RPM		2	3	4	5	6	7	8	9	10	11	12	13	
PRESSURE (psig)	2000	SCFM	131	105	82	60								
		HP	2.8	3.9	5.0	6.1								
	2800	SCFM	229	208	187	167	147	129	111					
		HP	5.0	6.4	7.9	9.3	10.8	12.3	13.9					
	3700	SCFM	334	314	295	277	260	243	227	211	196	182		
		HP	8.4	10.4	12.3	14.2	16.1	18.1	20.1	22.2	24.3	26.2		
	4500	SCFM	429	409	390	373	356	341	327	313	300	288	276	265
		HP	12.5	15.1	17.4	19.7	22.0	24.3	26.7	29.1	31.5	33.9	36.3	38.6

RPM		3	4	5	6	7	8	9	10	11	12	13	14	
VACUUM ("Hg)	2000	SCFM	129	109	90	71	55	39						
		HP	2.1	2.6	3.2	3.7	4.2	4.8						
	2800	SCFM	214	197	176	156	134	118	99	81	64			
		HP	3.9	4.4	5.1	5.8	6.4	7.1	7.8	8.6	9.3			
	3700	SCFM	315	291	268	245	223	201	180	159	139	119		
		HP	5.9	7.0	8.0	8.9	9.7	10.6	11.4	12.3	13.2	14.2		
	4500	SCFM	429	378	351	324	298	273	249	226	203	182	161	141
		HP	8.6	9.9	11.2	12.3	13.3	14.3	15.3	16.2	17.2	18.2	19.2	20.2

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.



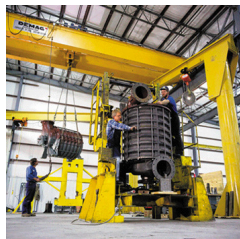
HOFFMAN REVOLUTION™ High Speed Centrifugal

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.



HOFFMAN

LAMSON


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