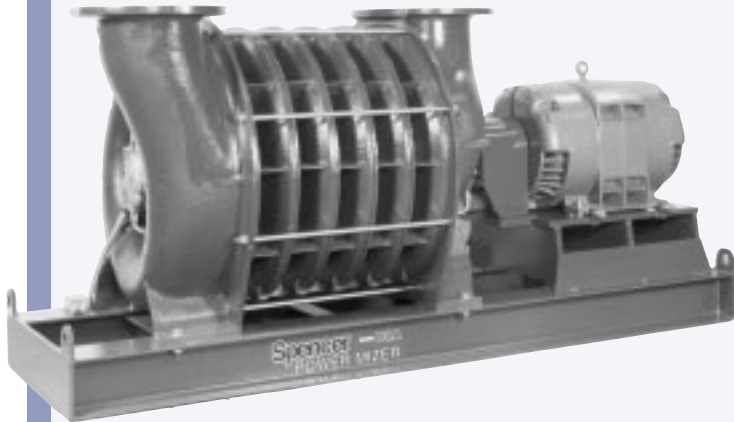


Spencer® *Technical Data Sheet*



Power Mizer®

Series 5000

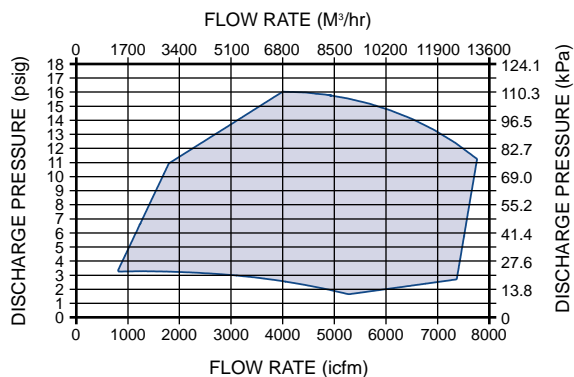
Cast Blowers & Exhausters

Rugged, high efficiency multi-stage blowers for heavy-duty applications

Continuing the more than 100-year tradition of Spencer innovation in air and gas handling equipment, the *Power Mizer* Series 5000 presents a new level of efficiency and performance in multi-stage centrifugal blowers and exhausters. Based on modern engineering concepts and casting technology, these blowers were rigorously tested in the laboratory and in the field to confirm their superior aerodynamic characteristics and reliability. With their rugged cast components, Series 5000 blowers are suitable for the most severe applications from sulphur recovery and wastewater treatment aeration to drying in the pulp and paper industry. Corrosion resistant coatings and special materials available.

Performance Range Series 5000 Blowers

Performance at Standard Density
(Air at 68°F, Relative Humidity of 36%, Inlet Pressure 14.7 psia) 3550 rpm



Technical Data

- Number of stages: 2-7
- Operating speed: 3550 rpm
- Casing design pressure: 25 psig
- Inlet connection: 16" (406mm) flange
125lb/150lb ANSI drilled and tapped
- Outlet connection: 14" (356mm) flange
125lb/150lb ANSI drilled and tapped
- Seals: labyrinth (single and double
carbon ring available)
- Bearings: 7312/6312 ball, minimum L10
bearing life of ten years per AFBMA
- Lubrication: oil
- Drains are 1/2 NPT with plugs
- Impeller diameter: 25.5" (648mm)
- Impeller tip speed: 395 ft/sec (120 m/sec)
- First critical speed: 4100 rpm for maximum
number of stages
- Vibration: 1.0 mils maximum peak to peak

Accessories

- Full line of standard and custom electrical
control panels for packaged systems-UL and
CUL listed available.
- Dissolved oxygen control system
- Flexible sleeve connectors and expansion joints
- Filters and silencers
- Butterfly valves and check valves

Note: Specifications may vary and change without notice.

Materials of Construction

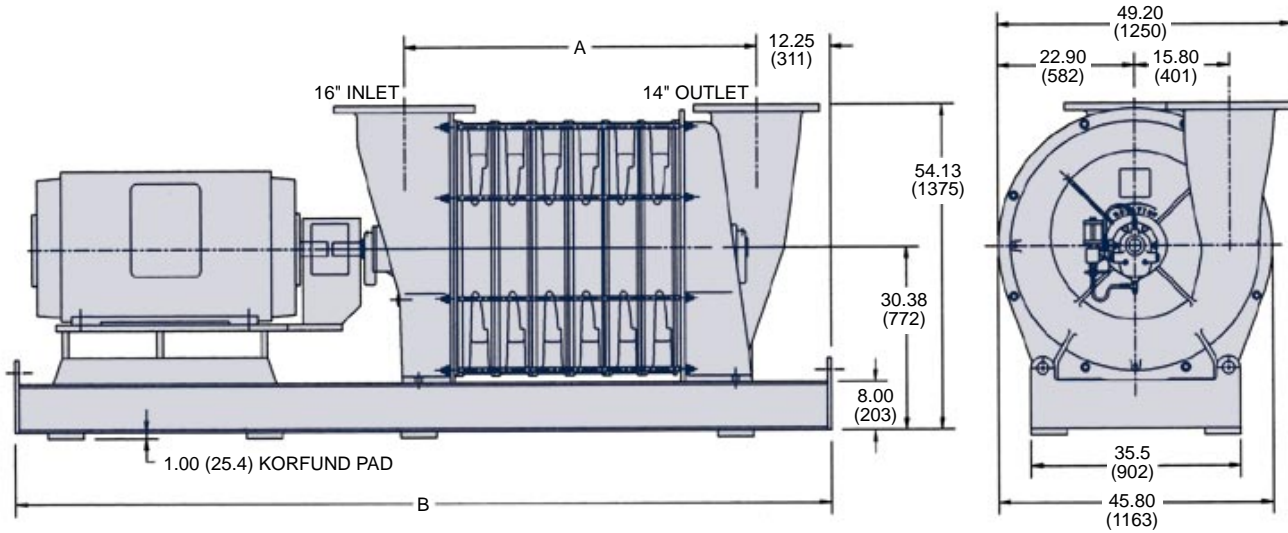
- Casing and heads: cast iron ASTM A48 Class 30
- Tie rods: zinc plated 1035 steel
- Interstage sealing: silicone rubber
- Shaft: AISI 1144 carbon steel
- Impellers: ASTM A356.0 cast aluminum
- Base: A36 structural steel
- Finish: epoxy primer with urethane topcoat
- Base pads: 1" thick cork and synthetic rubber

Series 5000

Dimensions

Inches
(mm)

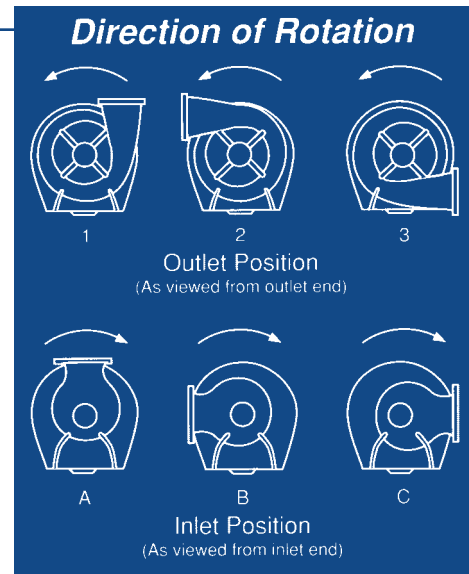
Dimensions are approximate
and intended for reference only.



Model No.	No. of Stages	Dimensions				Weight without motor	
		A		B*			
		inches	mm	inches	mm	lb	kg
C52	2	27.97	710	102	2591	3543	1607
C53	3	34.15	867	109	2769	4294	1948
C54	4	40.34	1025	116	2946	5001	2268
C55	5	46.53	1181	123	3124	5708	2589
C56	6	52.72	1339	130	3302	6428	2916
C57	7	58.91	1496	137	3480	7135	3236

*May vary depending on motor size

Spencer manufactures and markets a complete line of multi-stage centrifugal blowers and exhausters with cast or fabricated construction. For selection assistance, contact your local Spencer representative or The Spencer Turbine Company.



The **Spencer Turbine Company**, 600 Day Hill Road, Windsor, CT 06095-4706

Since 1892 moving air and gas for a cleaner environment

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