

## Power Mizer®

### Series 3500

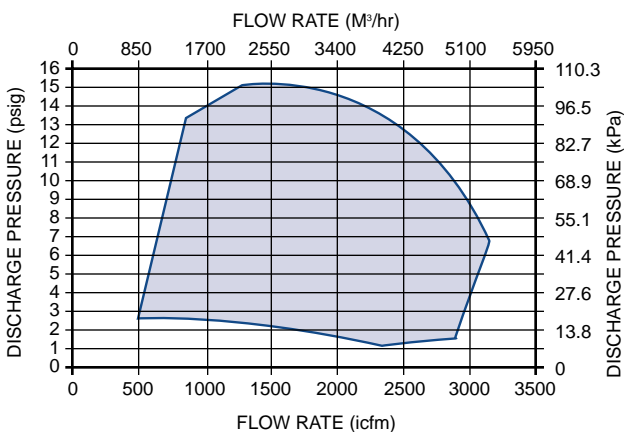
### Cast Blowers & Exhausters

### 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 3500 combines practicality and performance in multi-stage centrifugal blowers and exhausters. Based on modern engineering concepts and newly developed casting techniques, these blowers were designed and rigorously tested in the laboratory to confirm their functionality and reliability. With their rugged cast components, Series 3500 blowers are suitable for the most severe applications from sulphur recovery and wastewater treatment aeration to felt dewatering in the pulp and paper industry. Corrosion resistant coatings and special materials available.

### Performance Range Series 3500 Blowers

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



### 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 A319 cast aluminum
- Base: A36 structural steel
- Finish: epoxy primer with urethane topcoat
- Base pads: 1" thick cork and synthetic rubber

### Technical Data

- Number of stages: 2-9
- Operating speed: 3550 rpm
- Casing design pressure: 25 psig
- Inlet connection: 8" (203mm) flange  
125lb/150lb ANSI drilled and tapped
- Outlet connection: 8" (203mm) flange  
125lb/150lb ANSI drilled and tapped
- Seals: labyrinth (single carbon ring available)
- Bearings: 6312/6312 ball, minimum L10  
bearing life of ten years per AFBMA
- Lubrication: grease (standard) or oil (optional)
- Drains are 3/8 NPT with plugs
- Impeller diameter: 24" (610mm)
- Impeller tip speed: 372 ft/sec (113 m/sec)
- First critical speed: 4150 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

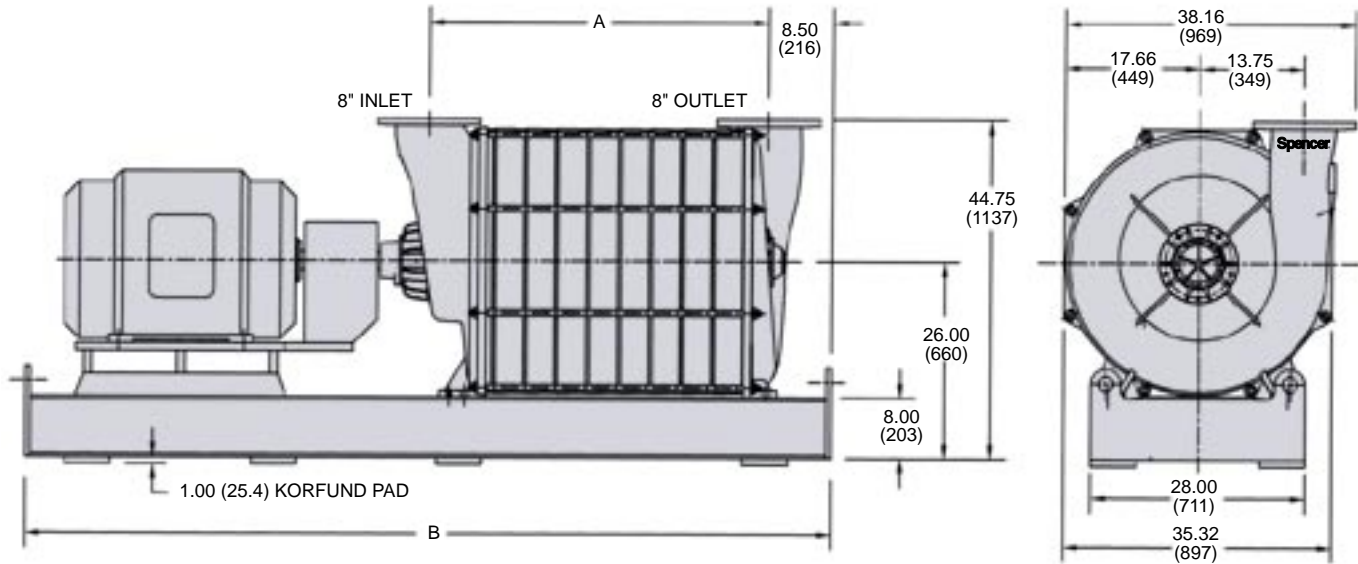
Note: Specifications may vary and change without notice.

# Series 3500

## Dimensions

Inches  
(mm)

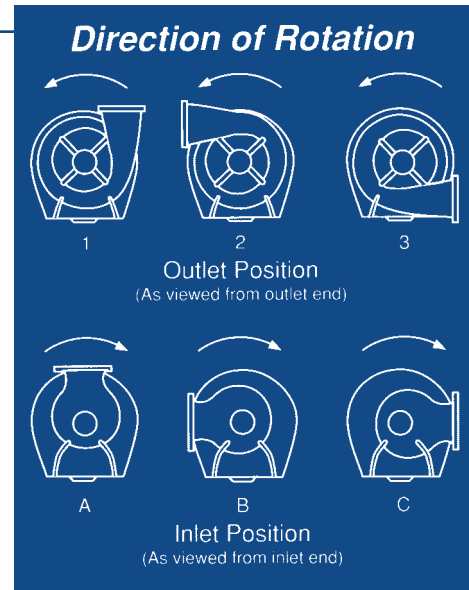
Dimensions are approximate  
and intended for reference only.



Model No.	No. of Stages	Dimensions				Weight without motor	
		A		B*			
		inches	mm	inches	mm	lb	kg
CS32	2	15.69	398	64	1626	2130	966
CS33	3	19.81	503	72	1829	2673	1212
CS34	4	23.94	608	88	2235	3196	1450
CS35	5	28.06	713	88	2235	3730	1692
CS36	6	32.19	818	96	2438	4263	1934
CS37	7	36.31	922	96	2438	4795	2175
CS38	8	40.44	1027	106	2692	5328	2417
CS39	9	44.56	1132	106	2692	5861	2659

\*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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