Spencer.

Power Mizer® Series 3500

Cast Multistage Centrifugal Blowers and Exhausters

TECHNICAL DATA SHEET



Rugged, energy efficient multistage blowers and exhausters

The Power Mizer® Series 3500 employs proven Spencer technology to meet heavy-duty air and gas handling requirements at peak energy efficiency.

Spencer's multistage centrifugal blowers and exhausters have a long track record of performance. The product line can be paired with Spencer's variable frequency drives (VFD), operator interface, a variety of control system options, and blower protection devices for optimum energy efficiency. It is ideal for maximum uptime in demanding environments.

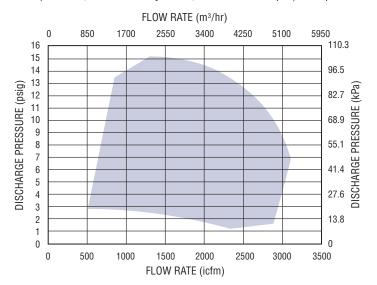
Applications include petrochemical refineries/sulfur recovery; mining/flotation; chemical/combustion air or process air; and municipal and industrial wastewater treatment/aeration.

Spencer's specially engineered aerodynamic components mean smoother, more efficient airflow from blower inlet to discharge. The Power Mizer Series 3500 is a cost-effective solution providing long-term power savings.

Performance Range

Performance at Standard Density

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



Product Features

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: 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 stages

Vibration: 0.23 in/sec

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

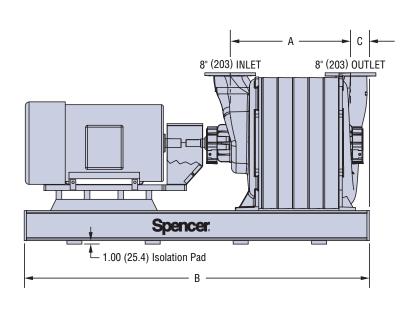
Filters and silencers

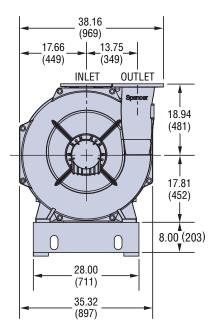
Butterfly valves and check valves

Note: Specifications may vary and change without notice.

Materials of Construction

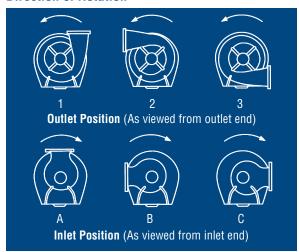
- · Casing and heads: cast iron Class 30
- Tie rods: AISI 1035 carbon steel
- Interstage sealing: silicone rubber
- Shaft: AISI 1144 carbon steel
- Impellers: ASTM A319 cast aluminum
- Base: A36 structural steel
- Finish: epoxy primer with urethane topcoat
- Isolation pads: synthetic rubber





Model Number	No. of Stages	Dimensions						Average Weight	
		А		В		С		Blower and Base (without motor)	
		inches	mm	inches	mm	inches	mm	lb	kg
CS32	2	15.69	399	72	1829	9.17	233	1980	898
CS33	3	19.81	503	72	1829	5.07	129	2319	1052
CS34	4	23.94	608	92	2337	13.27	337	2823	1281
CS35	5	28.06	713	92	2337	9.17	233	3162	1434
CS36	6	32.19	818	92	2337	5.07	129	3501	1588
CS37	7	36.31	922	112	2845	13.27	337	4019	1823
CS38	8	40.44	1027	112	2845	9.17	233	4358	1977
CS39	9	44.56	1132	112	2845	5.07	129	4697	2131

Direction of Rotation



Spencer may make improvements and dimensional changes to equipment designs based on market trends and requirements.

For product selection assistance, please email marketing@spencer-air.com or visit our website at www.spencerturbine.com to locate the Spencer representative in your area.

Power Mizer® is a registered trademark of The Spencer Turbine Company.

Blowers & Vacuum Systems with an Engineering Edge

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