Spencer.

Power Mizer Series 4000

Cast Multistage Centrifugal Blowers and Exhausters

TECHNICAL DATA SHEET



Rugged, energy efficient multistage blowers and exhausters

The Power Mizer® Series 4000 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.

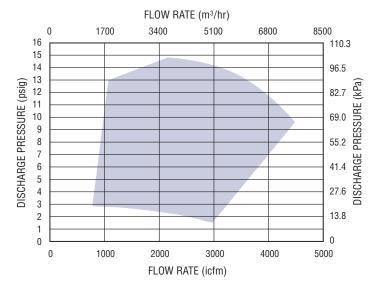
Applications include petrochemical refineries/sulfur recovery; mining/flotation; chemical/combustion air or process air; and municipal and industrial wastewater treatment/aeration.

Spencer's specially engineered aerodynamic components mean smoother, more efficient airflow from blower inlet to discharge. The Power Mizer Series 4000 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: 2-8
Operating speed: 3550 rpm
Casing design pressure: 25 psig

Inlet connection: 12" (305mm) flange 125lb/150lb

ANSI drilled and tapped

Outlet connection: 10" (254mm) flange 125lb/150lb

ANSI drilled and tapped

Seals: labyrinth (single and double carbon ring available)

Bearings: 6310/7310 ball, minimum L10 bearing life

of ten years per AFBMA

Lubrication: oil (standard) or grease (option)

Drains: 3/8 NPT with plugs Impeller diameter: 24" (610mm)

Impeller tip speed: 372 ft/sec (113 m/sec)

First critical speed: 4266 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

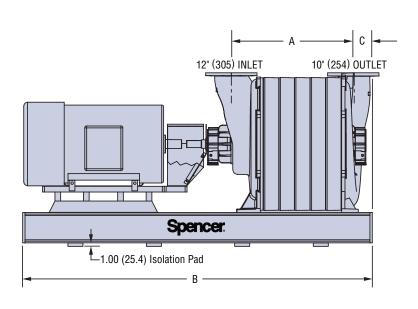
Filters and silencers

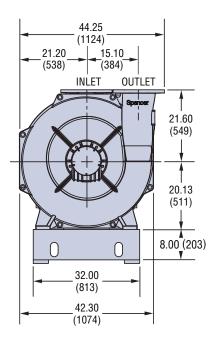
Butterfly valves and check valves

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 A356.0 cast aluminum
- Base: A36 structural steel
- Finish: epoxy primer with urethane topcoat
- Isolation pads: synthetic rubber and cork





Model Number	No. of Stages	Dimensions						Average Weight	
		А		В		С		Blower and Base (without motor)	
		inches	mm	inches	mm	inches	mm	lb	kg
C42	2	20.88	530	82	2083	11.45	291	2630	1194
C43	3	25.13	638	82	2083	7.20	183	3058	1389
C44	4	29.38	746	82	2083	2.95	75	3487	1584
C45	5	33.63	854	99	2514	7.20	183	4115	1868
C46	6	37.88	962	99	2514	2.95	75	4544	2063
C47	7	42.13	1070	108	2743	7.20	183	4997	2269
C48	8	46.38	1178	108	2743	2.95	75	5425	2463

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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