Spencer.

Power Mizer Series 8000

Cast Multistage Centrifugal Blowers and Exhausters

TECHNICAL DATA SHEET



Shown with optional Belly Wrap™ and API machine base.

Rugged, energy efficient multistage blowers and exhausters

The Power Mizer® Series 8000 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.

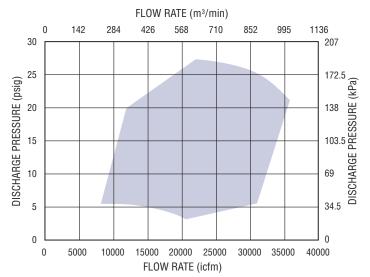
Applications include petrochemical refineries/sulfur recovery; mining/flotation; chemical/combustion air or process air; and municipal and industrial wastewater treatment/aeration.

Spencer's specially engineered aerodynamic components mean smoother, more efficient airflow from blower inlet to discharge. The Power Mizer Series 8000 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) 3570 rpm



Product Features

Technical Data

Number of stages: 1-6 (60 Hz)
Operating speed: 3570 rpm

Casing design pressure: 30 psig

Inlet connection: 24" (610mm) flange 125lb/150lb

ANSI drilled and tapped

Outlet connection: 20" (508mm) flange 125lb/150lb

ANSI drilled and tapped

Seals: labyrinth (carbon ring available)

Bearings: 6320/6320 ball, minimum L10 bearing life

of ten years per AFBMA

Lubrication: oil

Drains: 1/2 NPT with plugs

Impeller diameter: 35"

Impeller tip speed: 545 ft/sec

First critical speed: 4350 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

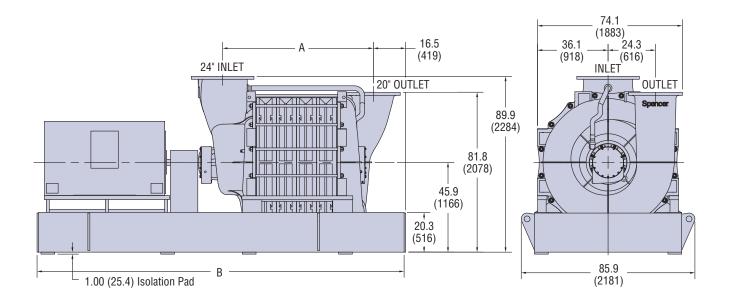
Filters and silencers

Butterfly valves and check valves

Note: Specifications may vary and change without notice.

Materials of Construction

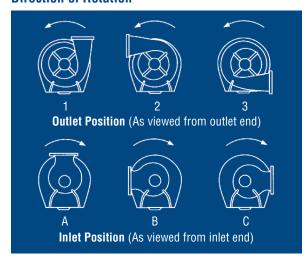
- · Casing and heads: cast iron Class 30
- Tie rods: AISI 1035 carbon steel
- Interstage sealing: silicone rubber
- Shaft: AISI 1144 carbon steel
- Impellers: ASTM A356.0-T6 cast aluminum
- Base: A36 structural steel
- Finish: epoxy primer with urethane topcoat
- Isolation pads: synthetic rubber and cork



Model No.	No. of Stages	Dimensions				Average Weight	
		А		B*		(without motor)	
		inches	mm	inches	mm	lb	kg
C81	1	36.1	917	130	3302	14500	6577
C82	2	46.4	1177	155	3937	18000	8165
C83	3	56.6	1438	171	4343	21500	9752
C84	4	66.9	1698	181	4597	25000	11340
C85	5	77.1	1958	191	4851	28500	12927
C86	6	87.4	2219	201	5105	32000	14515

^{*}May vary depending on motor size

Direction of Rotation



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

In Australia, for product selection and sales assistance, please contact:

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