

# Multistage Centrifugal Blowers and Exhausters



**Continental Blower**

*The Standard of Quality in Blower/Exhauster Systems Worldwide*



# Continental Blower

Since 1973, Continental has been a leading manufacturer of vertically split, cast iron and cast aluminum, Multistage Centrifugal Blowers and Exhausters. Continental is recognized worldwide with over 35,000 blowers and exhausters in operation for air and gas handling applications.

Continental's complete line of extremely reliable and efficient machines feature:

- 🌀 Volumes to 35,000 CFM
- 🌀 Pressures to 24 PSIG
- 🌀 Vacuums to 15" Hg

**Continental Blower, located in Syracuse, NY,** has assembled a highly experienced staff combining over 150 years of multistage blower application knowledge and expertise.

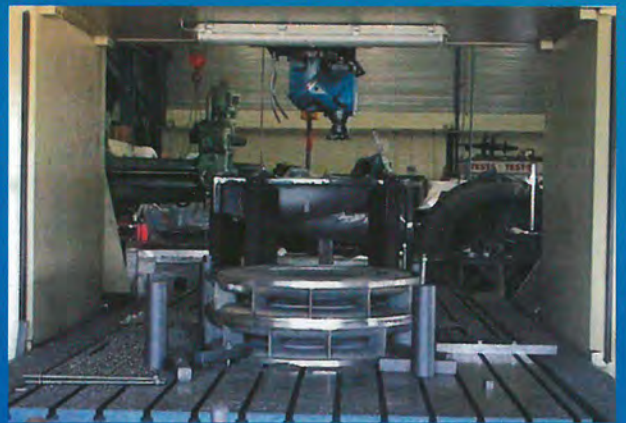
We take pride in providing you with the highest quality, most competitive blower packages available. Continental also offers a wide range of blower accessories and controls required for a complete installation.

**Continental can offer significant savings** on replacement blowers or exhausters. These models will replicate your performance requirements, and in many cases, duplicate the dimensions of your existing machine.

**Continental has recently expanded its state-of-the-art facilities for R&D,** engineering, testing, and manufacturing. It is one of the few multistage blower manufacturers with complete in-house machining and manufacturing operations in the industry. Our stringent quality standards ensure trouble-free, continuous, unattended equipment operation 24 hours a day, 365 days a year.

**Continental has offices in the USA, France, China, Italy, UAE, Germany, Spain, Australia and South America,** plus a complete representative sales force strategically placed throughout the world.

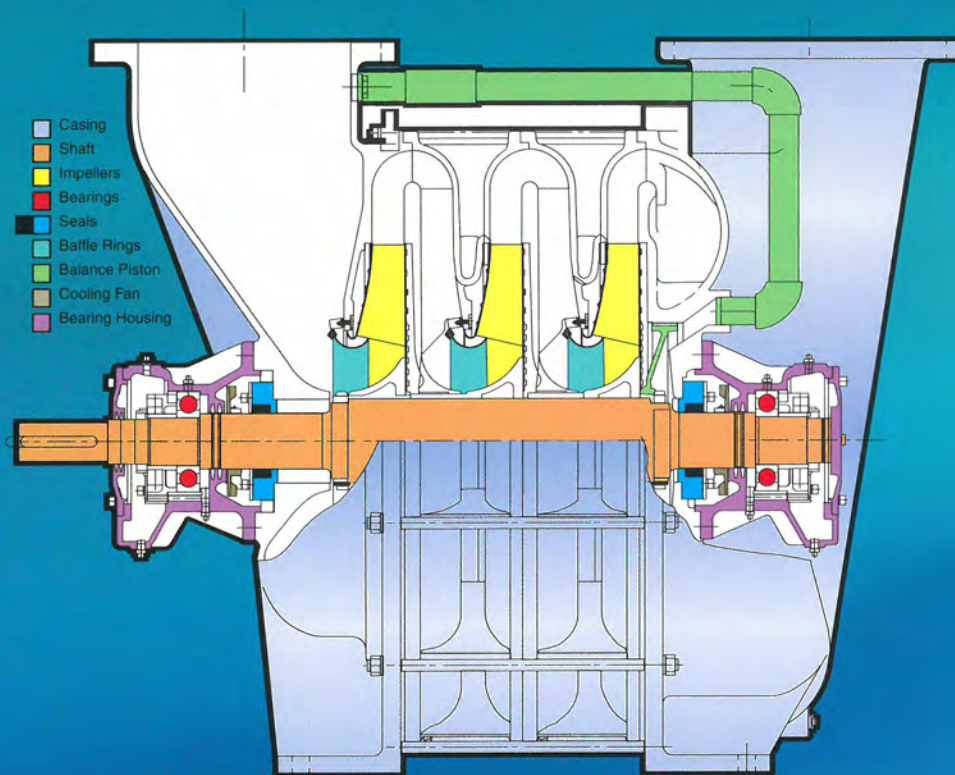
Continental Blower, a superior product backed by knowledgeable, highly skilled personnel. We stand ready to assist you with solutions for all of your blower and exhauster application needs in the Industrial, Municipal, and OEM markets.





# The Continental Advantage

- ⌚ Rugged cast iron or cast aluminum modular construction designed for continuous, dependable operation year after year.
- ⌚ Uniform delivery of pulse free, oil free air.
- ⌚ Quiet performance in compliance with OSHA regulations without the need for silencing.
- ⌚ Variable volume flow capabilities up to 35,000 CFM.
- ⌚ High efficiency design with adiabatic efficiencies up to 82%.



## Design Features

**Casing:** Cast iron or cast aluminum housings, held securely by steel tie rods.

**Shaft:** Polished carbon steel or stainless steel for corrosive gas applications.

**Impellers:** Cast or fabricated high strength aluminum, available in radial or backward curved vane configurations.

**Bearings:** Outboard mounted, grease or oil lubrication, sized for minimum 10 year bearing life.

**Seals:** Carbon/graphite rings, single for air or double for gas applications, purge capability available.

**Baffle Rings:** For improved airflow into the impeller eye, resulting in higher efficiency and improved performance.

**Balance Piston:** Used to absorb up to 75% of the axial thrust load in blowers operating at higher flows and pressure ratios.

**Bearing Housing:** Cast iron housing with labyrinth seals to protect lubricant from contamination.

**Cooling Fans:** Models 77 and larger incorporate cast aluminum cooling fans to assist heat dissipation.



# Markets & Applications

## Water Treatment

- ④ Fine bubble or coarse bubble aeration of water and wastewater at municipal and industrial treatment plants.
- ④ Digester gas recovery.
- ④ Lagoon or grit chamber aeration.
- ④ Filter backwash systems.



## Combustion Air

- ④ Sulfur recovery units at petroleum refineries.
- ④ Fluidized bed incineration systems in the incineration of low BTU fuels.
- ④ Carbon black production.
- ④ Flue gas desulfurization systems at power plants.
- ④ LNG Vaporization



## Landfill Gas/Gas Boosters

- ④ Methane disposal or recovery systems at municipal and private landfills.
- ④ Soil vapor extraction of VOC's from contaminated sites.
- ④ Gas boosters for carbon dioxide, nitrogen, propane, natural gas, flue-gas, and many others.
- ④ Coal mine venting in the removal of explosive gases from active mines.
- ④ Steam compressors for vapor recompression systems.



## Other Applications include:

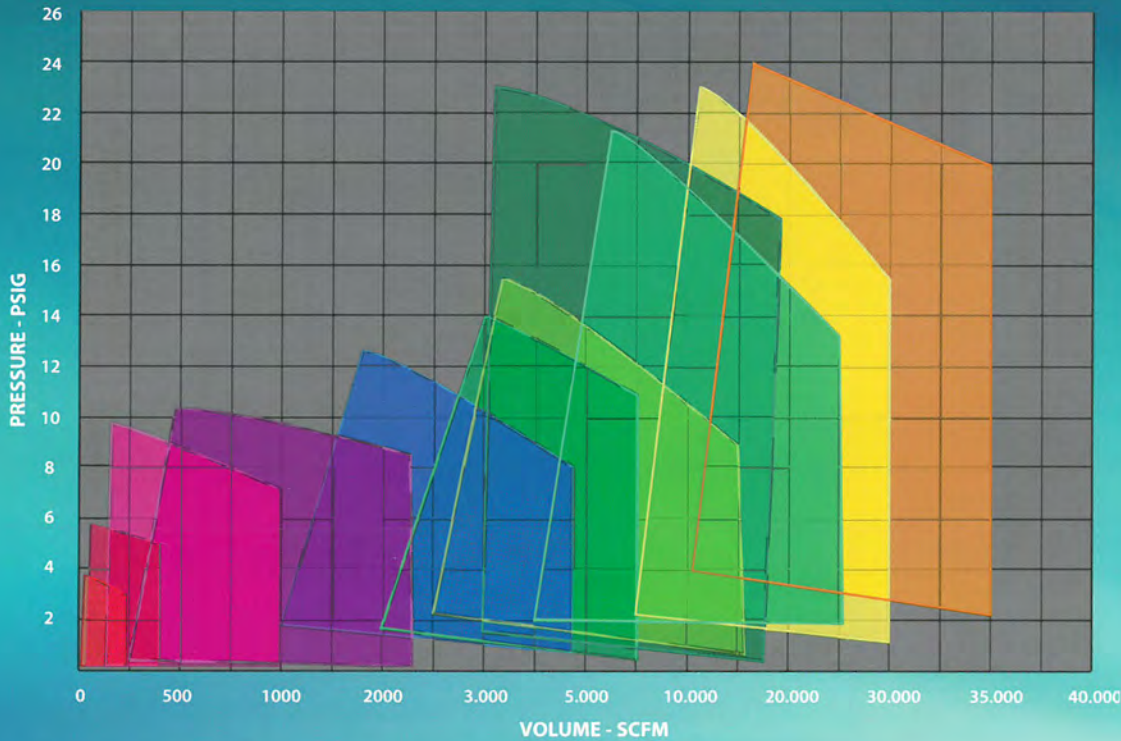
- ④ Agitation of electroplating tanks.
- ④ Central vacuum cleaning systems.
- ④ Aeration of flotation cells in the mining industry.
- ④ Aeration of compost.
- ④ Pneumatic conveying of various materials.
- ④ Low pressure air for turning bars, forming bars, air curtains and gathering machines for the printing industry.





# Multistage Centrifugal Blowers and Exhausters

VOLUME VS. PRESSURE



## Model Capacity Chart

MODEL NUMBER	CONNECTIONS SIZES		VOLUME RANGE SCFM		PRESSURE RANGE PSIG		VACUUM RANGE INCHES OF HG	
	INLET	OUTLET	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
02	2"	2"	20	130	0.3	2.0	0.5	4.0
08	4"	2.5"	30	300	0.3	3.5	0.5	5.5
20	6"	5"	80	500	0.5	5.5	1.0	8.0
31	6"	6"	250	1,000	1.0	9.5	2.0	12.0
51	6"	6"	350	2,100	1.0	10.5	2.0	12.5
77	8"	8"	800	4,500	1.5	12.5	2.5	13.5
151	12"	12"	1,500	7,000	1.5	14.0	2.5	14.0
251	14"	14"	2,000	12,000	1.5	15.0	2.5	14.0
400	18"	14"	2,500	16,000	1.5	15.0	2.5	14.0
451	16"	14"	3,000	17,000	1.8	23.0	5.0	18.0
500	20"	18"	5,000	23,000	2.0	21.0	4.0	17.0
600	24"	20"	7,500	30,000	3.0	23.0	5.0	18.0
700	28"	24"	12,000	35,000	4.0	24.0	6.0	19.0

**NOTES:**

- Ⓢ Blower performance as shown with standard air @ 68°F, 14.7 PSIA and 36% RH.
- Ⓢ Capacities depict blower performance, direct driven, at a speed of 3600 rpm.
- Ⓢ Blowers are typically driven by a coupled, 3600 rpm electric motor. Special drives include V-belt arrangements, steam turbines, gear-box, gas engine, and variable speed electric motors. Special drive arrangements are available upon request.
- Ⓢ Machines may be piped in parallel for increased volume requirements.
- Ⓢ Machines may be piped in series for increased pressure or vacuum requirements.
- Ⓢ Blower or exhauster capacity may be regulated by means of an inlet butterfly valve or a variable speed driver.



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