



MC Series Multistage Turbo Blower



Power: 20 to 3,500 HP / 15 to 2,500 kW

Flow: 300 to 45,000 SCFM / 500 to 75,000 nm³/h

Delta Pressure: 2 to 25 PSI / 0.1 to 1.7 bar

Air, Gas, Pressure, Vacuum

REINVENTING EXPECTATIONS

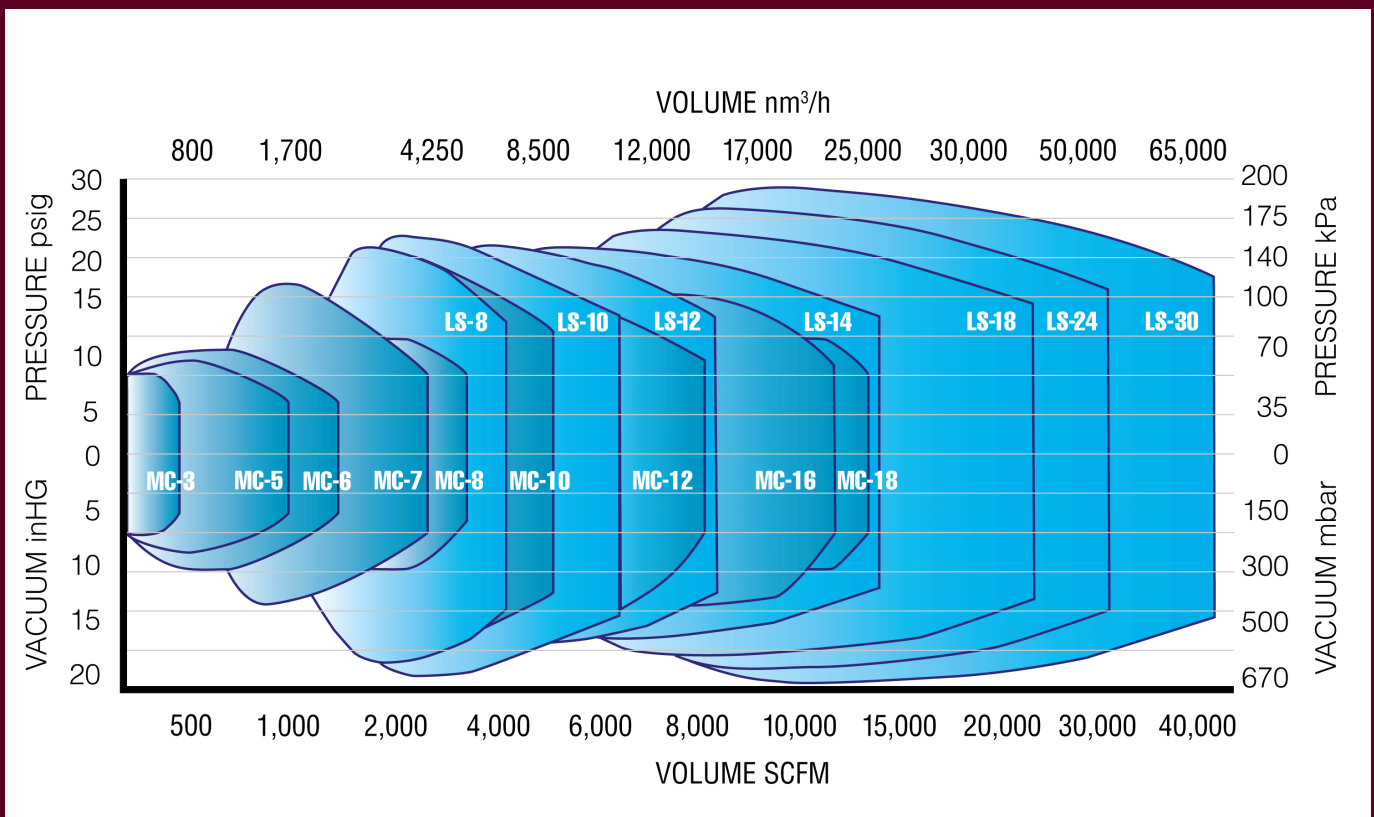
MC Series Multistage Turbo Blower

The MC Series is the most advanced of its kind – the first multistage designed specifically for variable speed operation.

Designed and built by 20-year industry veterans in the USA, the MC series offers superior performance range and efficiencies compared to traditional designs. These blowers are adaptable for air or process gas in pressure or vacuum applications.

Product Features

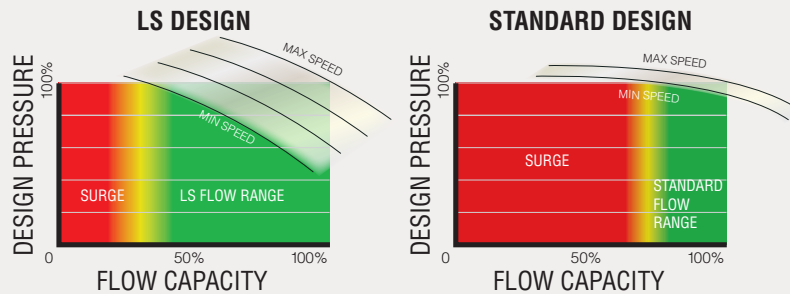
- 30% Higher Pressure Range
- 5-7% Better Efficiency
- 100,000-hour Bearing Life
- Quiet Operation < 85 dBA
- Direct Coupled Motor
- Oil Free Compression
- High Reliability
- Low Maintenance
- Pulsation Free
- Adapted for all Environments



The MC Series is the most advanced multistage turbo design available today

The MC Series are the first multistage blowers designed to run with variable speed. A steeper rise to surge provides the MC a wider flow range when adjusting speed over the traditional designs that were based on constant speed operation.

The large diameter impellers produce high tip speed to maintain pressure and backward curved impellers allow a high rise to surge.



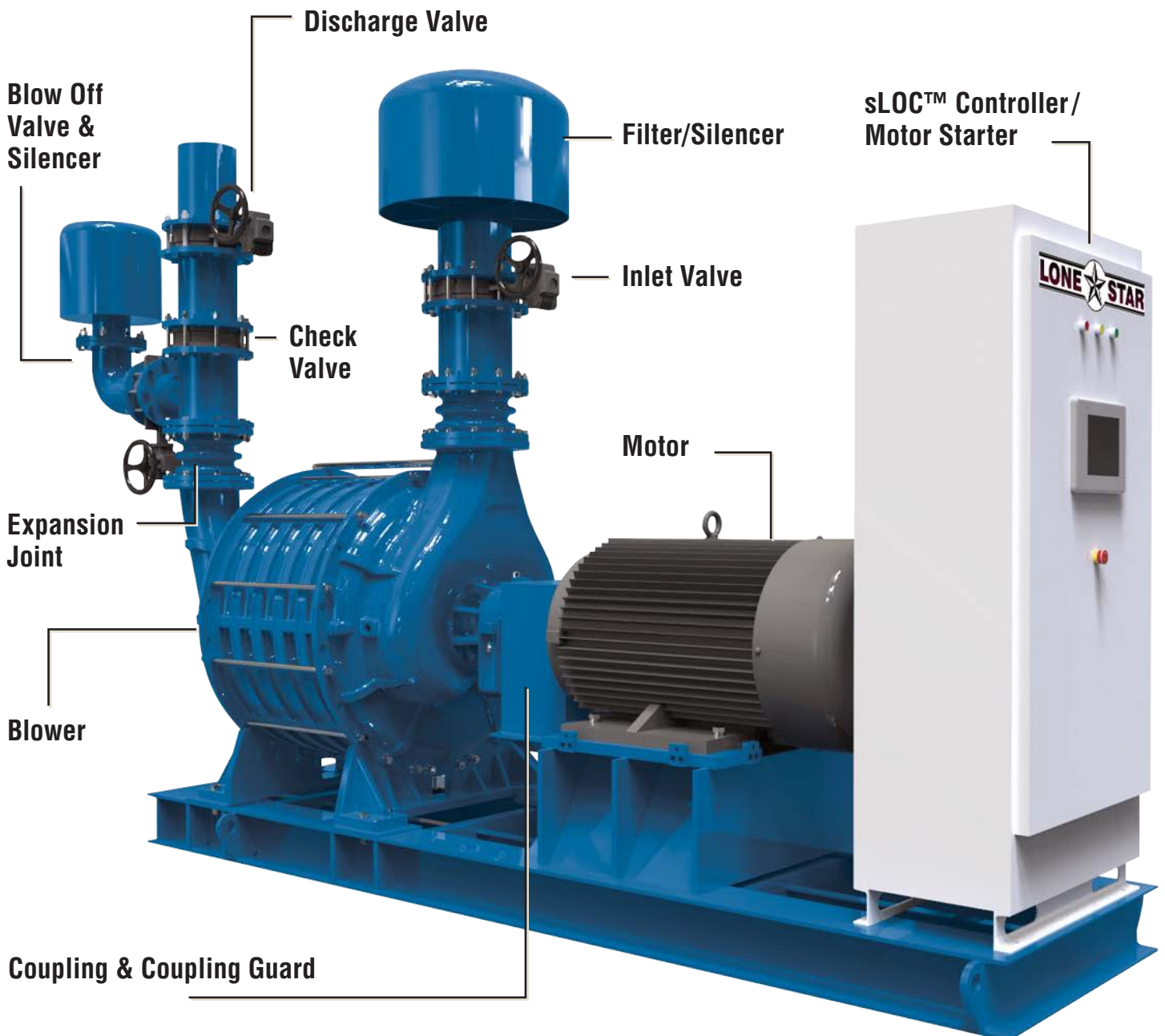
- O-Ring sealing between cast iron sections offer a no-leak design for gas tight applications
- Pressure to 35 psig / 1.4 bar



- High velocity cooling fan
- Constant level oiler – closed loop to eliminate misting
- Deep well aluminum oil reservoir – optional cooler and heater can be connected
- Oil splash lubrication – zero contamination
- Balance drum and return line to reduce thrust and increase bearing life
- All stainless fittings

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MC Packaged System



**Each model can be built from 1 to as many as 10 stages.
Impeller designs can be mixed to maximize efficiency.**

Cast Inlet Guide Vanes

Improve flow path to first stage impeller

Casing: Class 30 Cast Iron, Ductile, or Aluminum

Keeps vibration low and sound levels below 85 dBA without sound enclosure

Impellers: Aluminum, Anodized, Stainless, or Steel Options

Many vane configurations available to maximize efficiency

Intermediate Section

Wide turning channels to improve efficiency and O-Ring seals

Bearings L10 minimum life

Maximum reliability and easy maintenance

Lubrication—Self Lubricating with Oil mist connections

Easy maintenance access and reliability

Shaft: Carbon or Stainless

Slow speed for maximum reliability

Turning Vanes: Stainless or Cast Aluminum

Improves efficiency

Cradle Pedestal

Allows inlet and outlet flange positions to rotate 90 degrees

Casing Drains

Allows removal of liquid in the casing

Balance Drum and Return Line

Counters axial thrust load for longer bearing life

Seals: Gas or Air

Designed to fit the application and environment

Discharge Cooling Fan

Rotates with the shaft and keeps the bearings cool for improved reliability



Applications



Water and Waste Water



BioGas



Vacuum and Pneumatic Conveying



Petro-chemical



Utility Power



Mining



Industrial

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