# MC-20

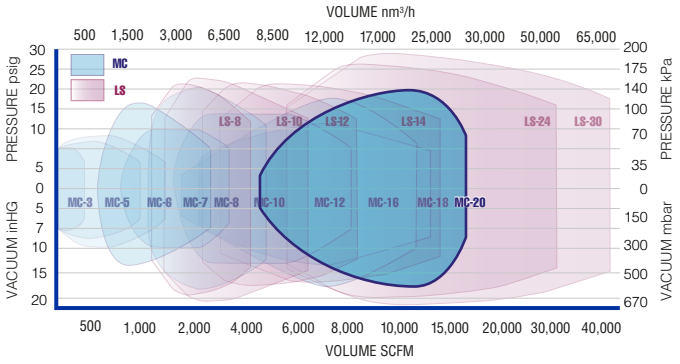
Multistage Centrifugal Turbo Blower

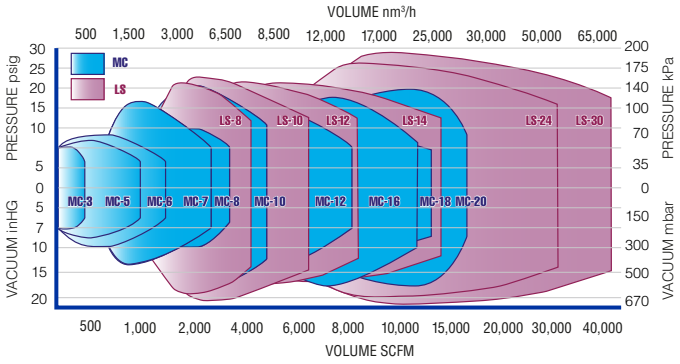
LONE STAR TURBO

## MODEL MC-20

### Service

Air, Gas, Pressure, Vacuum




### Standard Specifications

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|---|---|
| Gas | Air, CO2, Biogas, Steam, H2S, Fuel Gas, N2, LNG, Custom |
| Flow Range | 100% to 45% of Rated Flow* |
| Pressure Range | 18 PSIG / 1241 mbar Delta |
| Maximum Case Pressure | 35 PSIG / 2.4 bar |
| Stages | 2 to 7 (8 at 50Hz) |
| Drive Type | Direct Coupled |
| Power Driver Options | Electric 2-Pole Motor, Steam Turbine, Combustion Engine |
| Cooling | Self Cooled Air, Optional Integral Fan |
| Lubrication Options | Splash Lubricated Oil, or Mist Connections |
| Bearings | Anti-friction type AFBMA L10 up to 300,000 hrs |
| Enclosure | Optional |
| Sound Level | < 85 dba* |
| Sound Level with Enclosure | Job Specific |
| Filtration Rating (std) | 98% at 10 micron, or as required |
| Seals Air | Labyrinth Type |
| Seals Gas | Carbon Ring with Purge, Custom Available |
| Shaft End Dimension | 3.3745 in (85.7123 mm) diameter at coupling |
| Inlet / Outlet Flange Size | 20" / 18" ASA 125# /ANSI 150# Drilling, Optional DIN 500/450 Adapter Flange |

### Control Options

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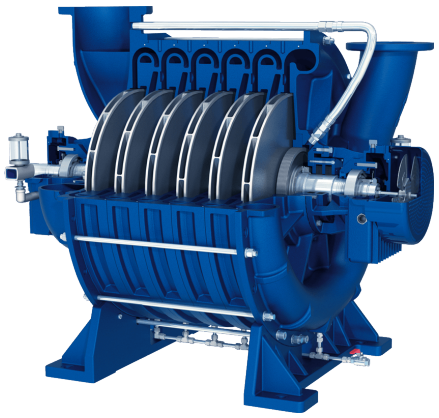
|---|---|
| Control Methods | Variable inlet valve, speed control, blow off, or combination |
| Local Controller | sLOC™ Standard - Custom for Allen Bradley, Modicon, Siemens or Other |
| HMI | sLOC™ Standard or Custom HMI |
| Remote Montioring | sLINK™ or Custom |
| Control Set Points | Pressure, Flow, Power, Custom Input |

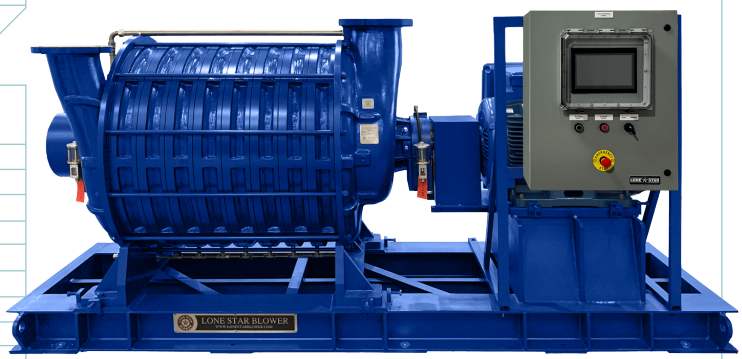
### Standard Materials of Construction

| | |
|---|---|
| Casing, Volute | ASTM A48 Class 25/30 Cast Iron, Ductile |
| Bearing Housings | ASTM A48 Class 25/30 Cast Iron, Ductile |
| Impeller | ASTM A365 T6 Cast Aluminum, ASTM AA-6061 Fabricated, Stainless |
| Shaft | ASTM A109 1045~, Stainless Steel |
| Seals Air | ASTM B86 Z25631 Zinc Alloy, Aluminum |
| Seals Gas | ASTM C695 Molded Graphite |
| Joint Sealing of Casings | RTV Silicon or O-Ring |
| Blower Base Skid | ASTM A36 Structural Steel |
| Isolation Pads | Neoprene Rubber |
| Finish | 2 Part Epoxy Lone Star Blue RAL5005 |

### Optional Testing & Certifications

| | |
|---|---|
| API | API 617, API 672 Features |
| Electrical | UL 508A, CE, CSA, Other |
| Hazardous Location | ATEX, Class1 - Division 1- Division 2, Zone 0-2 |
| Balancing | ISO 1940, G2.5 grade |
| Noise Level | OSHA 1910.95, ISO 2151:2004 |
| Performance | ASME PTC-10, PTC-13, ISO 5389 |
| Hydro Testing | 1.5 Time MAWP |
| Overspeed Testing | Optional |
| Positive Material ID | XRF, OES, Material Certification |
| NACE Compliance | Optional |
| Special Coatings | Optional |





** Information is approximate and can change without notice*

** Air Performance Based on 1 Atm, 68F/20C, 36% RH and 3550 rpm*