

MC-20

Multistage Centrifugal Turbo Blower



LONE STAR
TURBO

MODEL MC-20

Standard Specifications

Gas	Air, CO ₂ , Biogas, Steam, H ₂ S, Fuel Gas, N ₂ , 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

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 Monitoring	sLINK™ or Custom
Control Set Points	Pressure, Flow, Power, Custom Input

Standard Materials of Construction

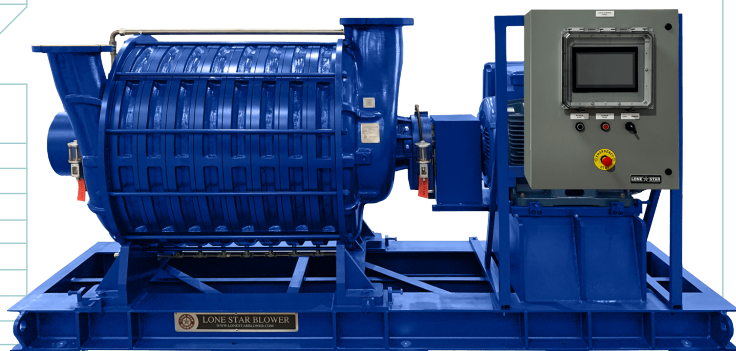
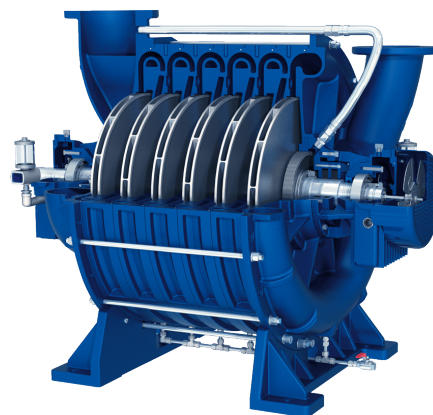
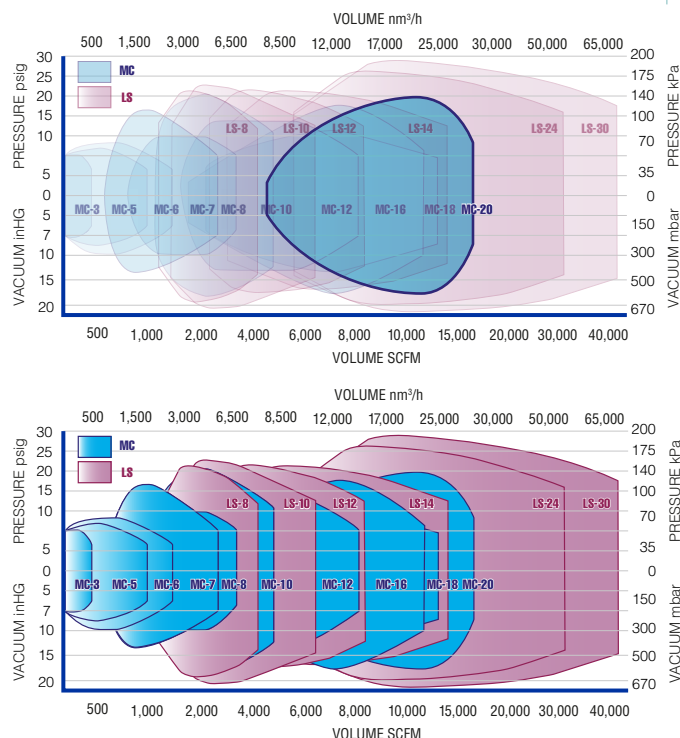
Casing, Volute	ASTM A48 Class 25/30 Cast Iron, Ductile
Bearing Housings	ASTM A48 Class 25/30 Cast Iron, Ductile
Impeller	ASTM A365 T6 Cast Aluminum, ASTM AA-6061 Fabricated, Stainless
Shaft	ASTM A109 1045~, Stainless Steel
Seals Air	ASTM B86 Z25631 Zinc Alloy, Aluminum
Seals Gas	ASTM C695 Molded Graphite
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, Class 1 - 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

Service

Air, Gas, Pressure, Vacuum



* Information is approximate and can change without notice
* Air Performance Based on 1 Atm, 68F/20C, 36% RH and 3550 rpm