

GB-50

Integrally Geared Single Stage Blower



LONE STAR
TURBO

MODEL GB-50

Standard Specifications

Gas	Air, Steam, H2S, Biogas, Fuel Gas, CO2, N2, LNG, Custom
Flow Range	100% to 35% of Rated Flow with Combination Control
Pressure Range	Up to 30 PSIG / 2 bar
Maximum Case Pressure	50 PSIG / 3.5 bar
Stages	Single Stage
Drive Type	Direct Coupled
Power Driver Options	Electric Motor, Steam Turbine, Combustion Engine
Gearbox	Helical Gear Set
Cooling Lubricant	Lubricant Cooling (Air or Liquid)
Lubrication Options	Pressurized Oil
Bearings	Pinion - Tilt Pad Journal, Drive Journal
Enclosure	Optional
Sound Level	Job Specific
Sound Level with Enclosure	Job Specific
Filtration Rating (std)	99% at 2 micron, or as required
Seals Air	Labyrinth Type

Service

Air, Gas, Pressure, Vacuum

Standard Materials of Construction

Casing	Grey Iron GG25, Ductile, ASTM A536, A48 or Equal
Bearings	ANSI 5140 Steel, Babbited, 40CR Alloy Casing
Impeller	AlCu2MgNi Alloy (annodized), 17-4PH, Titanium, Inconel
Inlet Guide Vanes	Stainless Steel 316
Discharge Diffuser Vanes	Stainless Steel 316
Gears	AISI 8620, Steel 10CrNiMo to AGMA 12/13
Shaft	Steel 10CrNiMo
Seals Air	ASTM B86 Z25631 Zinc Alloy Aluminum
Seals Gas	ASTM C695 Molded Graphite
Blower Base Skid	ASTM A36 Structural Steel
Isolation Pads	St. SIS 1312 inertial dampening with rubber hardness 60
Finish	2 Part Epoxy Lone Star Blue RAL5005
Enclosure	Aluminum, Galvanized Steel, Stainless

Control Options

Control Methods	Variable Inlet and Discharge Guide Vane, 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

Optional Testing & Certifications

API	API 617, API 672, API 614
Electrical	UL 508A, CE, CSA
Hazardous Location	ATEX, Class1 - Division 1- Division 2, Zone 0-2
Balancing	ISO 1940 - G2.5, ~4W/N API
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

