



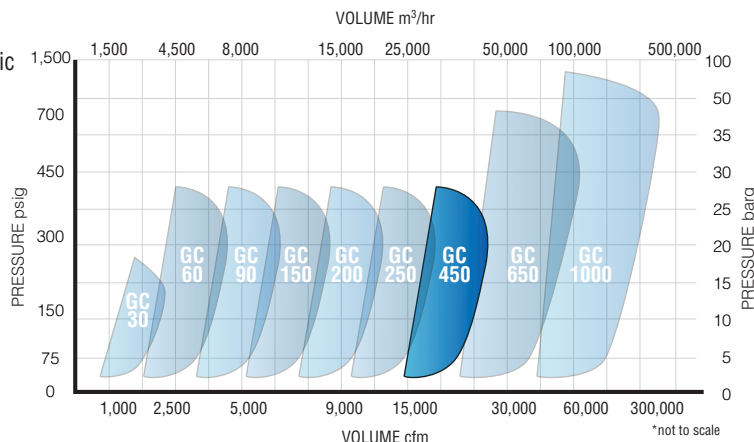
Model GC-450

Service

Air, Gas, Pressure, Vacuum

Standard Specifications

Gas.....	Air, Steam, H2S, Biogas, Fuel Gas, CO2, N2, LNG, Custom
Flow Range	100% to 65% of Rated Flow
Pressure Range.....	40 to 360 PSI / 3 to 25 bar, model specific
Maximum Case Pressure	500 PSIG / 35 bar
Stages.....	1 to 4 Stage Compression
Drive Type.....	Direct Coupled
Power Driver Options.....	Electric Motor, Steam Turbine, Combustion Engine
Gearbox	Helical Gear Set
Cooling Lubricant.....	Shell and Tube - Water Cooled
Cooling Intercooling.....	Shell and Tube - Water Cooled
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



Standard Materials of Construction

Casing.....	Grey Iron FC25, GG25, Ductile, ASTM A536, A48 or Equal
Bearings.....	SCM440, ANSI 5140 Steel, Babbited, 40CR Alloy Casing
Impeller.....	17-4PH SS, Titanium, Inconel
Inlet Guide Vanes	Stainless Steel 304
Discharge Diffuser Vanes.....	Aluminum Alloy or stainless steel 304
Gears	AISI 4140, Cr-Mo Alloy, Ni-Cr-Mo Alloy to AGMA 13
Shaft	AISI 4140, Steel 10CrNiMo
Seals Air.....	Aluminum Alloy
Lubricant Cooler	Copper (C1220T), Cu + Ni(C7060T), Stainless Steel ST304
Intercooler, Aftercooler.....	Ductile Housing with Copper (C1220T) Coils, Stainless Steel ST304
Blower Base Skid	(Optional) ASTM A36, SS440 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 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 2151:2005
Performance	ASME PTC-10, ISO 5389
Hydro Testing.....	1.5 Time MAWP
Overspeed Testing.....	Optional
Positive Material ID.....	XRF, OES, Material Certification
NACE Compliance	Optional
Special Coatings	Optional

