

'G' series compressor / boosters



'G' series compressor/boosters have been engineered with a gastight crankcase ('special' double crankshaft seals and jointing) to prevent gas leakage, and are oil-lubricated, single acting reciprocating compressors with air-cooling. The 'G' series compressor/boosters are similar in performance to the 'H' series but are designed for noble gases such as Helium and Argon, and hazardous gases such as Carbon Monoxide and Natural Gas. Oil pressure fed to the crankshaft bearings and oil splash for compression, combined with Sauer regulated oil Injection system for the final piston plunger design, ensures high reliability. The ability to handle elevated suction pressure for either noble or hazardous gases, gives Enhanced performance to final pressures between 290 – 580 PSI reliably in three stages and from 1450 – 5075 PSI in four stages within the gas flow rate range of 5.9 – 236 SCFM.

Models: WP156L, WP276L, WP316L

Available in ATEX Version

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SPECIFICATIONS

Stages/Cylinders	3 Stages
Operating Pressure Range	290 to 580 psi
Required Power @ 1770 RPM, 60 Hz	20 to 100 hp
Capacity F. A. D. @ 1770 RPM, 60 Hz	39 to 178 SCFM
Models	WP156L, WP276L, WP316L

FEATURES

Multi-stage oil-lubricated piston compressor	Standard
Inter-stage and final after-cooler with oil/water separators	Standard
Over-pressure safety valves at each stage	Standard
Gas-tight over-pressure safety valves at each stage (piped exit, manifold)	Standard
Automatic oil/water drain valves	Standard
Auto-starting relief integrated with drain system	Standard
Pressure indicator at each stage	Standard
Gas over-temperature protective shutdown sensor	Standard
Oil lubrication including protection sensor	Standard
Pressure and temperature indicators and sensor- switch at all stages	Optional
Air-blast cooling fan and flywheel	Standard
Lubricating oil level alarm	Optional

Gas suction connection (flange, pipe)	Standard
Crankcase oil sump heating	Optional with Non-Explosion Proof Model only, Not available in Explosion Proof Model
Ex-proof crankcase oil sump heating	Optional with Explosion Proof Model only, Not available in Non-Explosion Proof Model
Flexible drive coupling	Standard
Direct drive Electric Motor	Standard with Non-Explosion Proof model only, Not available with Explosion Proof Model
Direct-drive Ex-motor (ATEX)	Standard with Explosion Proof Model, Optional with Non-Explosion Proof Model only
Resilient AV mounts	Standard
Outlet flexible hose with non-return valve	Standard
Flexible oil/water drain hose	Standard
Auto Start-Stop pressure sensor control	Optional
Oil/water drain gas separator 'Demister' vessel	Optional
Oil/water collection tank	Optional
Oil/water collection tank (level alarm)	Optional
Electrical Control Panel (Safe Area, Start/Stop, alarms, shutdowns)	Optional
Acoustic enclosure (internal heater, fan ventilation, gas detection)	Optional
Ex-proof drive coupling (ATEX 95)	Standard with Explosion Proof Model, Optional with Non-Explosion Proof Model only
Anti-static air-blast cooling fan (ATEX 95)	Standard with Explosion Proof Model, Optional with Non-Explosion Proof Model only
Intrinsic safe relays for pressure and temperature monitoring	Optional with Explosion Proof Model only. Not available in Non-Explosion Proof Model
Intrinsic safe terminal box for electrical connections	Optional with Explosion Proof Model only. Not available in Non-Explosion Proof Model
Electrical Control panel to ATEX zone 1 and 2	Optional with Explosion Proof Model only. Not available in Non-Explosion Proof Model
Supply gas pressure sensor control (Auto- Stop/Restart)	Optional
Supply gas isolating valve (manual, solenoid, actuator, electrical inter-lock)	Optional
Supply gas non-return valve	Optional with Explosion Proof Model only. Not available in Non-Explosion Proof Model
Supply gas excess flow valve	Optional with Explosion Proof Model only. Not available in Non-Explosion Proof Model
In-line gas suction filter	Optional
Suction gas regulation (pressure reducing valve)	Optional

Suction gas shut-off valve (solenoid, actuated)	Optional
Capacity control (re-cycling by-pass valve, discharge back to suction)	Optional
Inlet gas pulsation damper (suction 'buffer tank' inc. drain/purge valve)	Standard
Suction gas protection (safety valve, pressure gauge, high/low pressure sensor-switch)	Standard
Flexible suction gas hose	Optional
Outlet oil coalescing filtration (manual, auto drain)	Standard with Explosion Proof Model, Optional with Non-Explosion Proof Model only
Outlet oil vapor activated carbon filtration (manual drain)	Optional
Outlet purge connection	Standard with Explosion Proof Model, Optional with Non-Explosion Proof Model only
Final Pressure Maintaining Valve	Standard with Explosion Proof Model, Optional with Non-Explosion Proof Model only
Gas drying (suction, outlet HP Dryer)	Optional
Auto Stop/Start pressure sensor control	Optional
Gas recovery, or 'blow-down' , vessel (purge, drain, safety valve, pressure gauge)	Standard

'H' series compressor / boosters



'H' series compressors are used for Air or Nitrogen compression. Each compressor is an air-cooled, single acting, three or four stage, and reciprocating piston compressor with the combination of oil pressure fed crankshaft bearings, and cylinder oil splash with regulated injection for the final high-pressure piston plunger design. Performance with inert gases, such as Nitrogen.

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SPECIFICATIONS

Stages/Cylinders	3 Stages 4 Stages
Operating Pressure Range	1450 to 5075 psi
Required Power @ 1770 RPM, 60 Hz	10 to 50 hp
Capacity F. A. D. @ 1770 RPM, 60 Hz	7 to 70 SCFM

FEATURES

Multi-stage oil-lubricated piston compressor	Standard
Inter-stage and final after-cooler with oil/water separators	Standard
Over-pressure safety valves at each stage	Standard
Gas-tight over-pressure safety valves at each stage (piped exit, manifold)	Optional
Automatic oil/water drain valves	Standard
Auto-starting relief integrated with drain system	Standard
Pressure indicator at each stage	Optional
Gas over-temperature protective shutdown sensor	Standard
Oil lubrication including protection sensor	Optional
Pressure and temperature indicators and sensor- switch at all stages	Standard
Air-blast cooling fan and flywheel	Standard
Lubricating oil level alarm	Standard
Gas suction connection (flange, pipe)	Standard

Crankcase oil sump heating	Optional
Flexible drive coupling	Standard
Direct drive Electric Motor	Standard
Direct-drive Ex-motor (ATEX)	Optional
Resilient AV mounts	Standard
Outlet flexible hose with non-return valve	Standard
Flexible oil/water drain hose	Standard
Auto Start-Stop pressure sensor control	Standard
Oil/water drain gas separator 'Demister' vessel	Optional
Oil/water collection tank	Optional
Oil/water collection tank (level alarm)	Optional
Electrical Control Panel (Safe Area, Start/Stop, alarms, shutdowns)	Optional
Acoustic enclosure (internal heater, fan ventilation, gas detection)	Optional
Ex-proof drive coupling (ATEX 95)	Optional
Anti-static air-blast cooling fan (ATEX 95)	Optional
Electrical Control panel to ATEX zone 1 and 2	Optional
Supply gas pressure sensor control (Auto- Stop/Restart)	Optional
Supply gas isolating valve (manual, solenoid, actuator, electrical inter-lock)	Optional
In-line gas suction filter	Optional
Suction gas regulation (pressure reducing valve)	Optional
Suction gas shut-off valve (solenoid, actuated)	Optional
Capacity control (re-cycling by-pass valve, discharge back to suction)	Optional
Inlet gas pulsation damper (suction 'buffer tank' inc. drain/purge valve)	Optional
Suction gas protection (safety valve, pressure gauge, high/low pressure sensor switch)	Optional
Flexible suction gas hose	Optional
Outlet oil coalescing filtration (manual, auto drain)	Optional

Outlet oil vapor activated carbon filtration (manual drain)	Optional
Outlet purge connection	Optional
Final Pressure Maintaining Valve	Optional
Gas drying (suction, outlet HP Dryer)	Optional
Auto Stop/Start pressure sensor control	Optional

'LB' series inert gas boosters



'LB' series inert gas boosters are dedicated nitrogen gas boosters that can accept suction pressures from 58 – 203 PSI to deliver gas to a maximum of 580 PSI. This single stage gas booster

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SPECIFICATIONS

Stages/Cylinders	1 Stage
Operating Pressure Range	290 to 580 psi
Required Power @ 1770 RPM, 60 Hz	58 to 203 hp
Capacity F. A. D. @ 1770 RPM, 60 Hz	33 to 136 SCFM

FEATURES

Multi-stage oil-lubricated piston compressor	Standard
Inter-stage and final after-cooler with oil/water separators	Standard
Over-pressure safety valves at each stage	Standard
Gas-tight over-pressure safety valves at each stage (piped exit, manifold)	Optional
Automatic oil/water drain valves	Standard
Auto-starting relief integrated with drain system	Standard
Pressure indicator at each stage	Optional
Gas over-temperature protective shutdown sensor	Standard
Oil lubrication including protection sensor	Optional
Pressure and temperature indicators and sensor- switch at all stages	Standard
Air-blast cooling fan and flywheel	Standard
Lubricating oil level alarm	Standard
Gas suction connection (flange, pipe)	Standard
Crankcase oil sump heating	Optional

Flexible drive coupling	Standard
Direct drive Electric Motor	Standard
Direct-drive Ex-motor (ATEX)	Optional
Resilient AV mounts	Standard
Outlet flexible hose with non-return valve	Standard
Flexible oil/water drain hose	Standard
Auto Start-Stop pressure sensor control	Standard
Oil/water drain gas separator 'Demister' vessel	Optional
Oil/water collection tank	Optional
Oil/water collection tank (level alarm)	Optional
Electrical Control Panel (Safe Area, Start/Stop, alarms, shutdowns)	Optional
Acoustic enclosure (internal heater, fan ventilation, gas detection)	Optional
Ex-proof drive coupling (ATEX 95)	Optional
Anti-static air-blast cooling fan (ATEX 95)	Optional
Electrical Control panel to ATEX zone 1 and 2	Optional
Supply gas pressure sensor control (Auto- Stop/Restart)	Optional
Supply gas isolating valve (manual, solenoid, actuator, electrical inter-lock)	Optional
In-line gas suction filter	Optional
Suction gas regulation (pressure reducing valve)	Optional
Suction gas shut-off valve (solenoid, actuated)	Optional
Capacity control (re-cycling by-pass valve, discharge back to suction)	Optional
Inlet gas pulsation damper (suction 'buffer tank' inc. drain/purge valve)	Optional
Suction gas protection (safety valve, pressure gauge, high/low pressure sensor-switch)	Optional
Flexible suction gas hose	Optional
Outlet oil coalescing filtration (manual, auto drain)	Optional
Outlet oil vapor activated carbon filtration (manual drain)	Optional

Outlet purge connection	Optional
Final Pressure Maintaining Valve	Optional
Gas drying (suction, outlet HP Dryer)	Optional
Auto Stop/Start pressure sensor control	Optional

WP 6000/4000 Booster Compressor



The industrial market has very specific demands. The new WP6000 meets those demands with turn-key water-cooled compressor packages that provide air or gas for your project. With up to six-cylinders, the WP6000 booster has a flexible design that can be customized to meet your exact specifications. Based upon Sauer's vast experience with robust Warship compressors for the World's Navies, the water-cooled WP6000 can be readily adapted using any combination of cylinders, or compression stages, to meet the precise requirement for flow and pressure.

Features:

Proven concentric valves from Sauer's existing MP and HP product range in all stages

Identical piston diameter in LP stages and HP crosshead guides for maximum flexibility. Cylinder, cylinder heads and coolers can be dismantled separately to ease maintenance and repair

Pressure tight crankcase up to 290 psi

Integrated flexible coupling and direct-drive for high reliability and low maintenance

Pressure oil lubrication and 3-layer slide bearing for high sturdiness

Low maintenance with the piston pin guided in a slide bearing

Individual coolers for each cylinder/stage provide optimal cooling for all parts in the compression process

Liners and wearing parts from Sauer established product range for cost and highest reliability

SPECIFICATIONS

Stages/Cylinders	4/6 2 or 3 Stages
Operating Pressure Range	200 to 6000 psi
Required Power @ 1770 RPM, 60 Hz	150 to 290 hp
Capacity F. A. D. @ 1770 RPM, 60 Hz	230 to 1110 SCFM