



PRODUCT DATASHEET

BOOSTER COMPRESSOR

GENERON JGA 4 BOOSTER CE

2,000 SCFM / 345 BAR (5000 PSI)



AUSTRALIA | UNITED ARAB EMIRATES | SAUDI ARABIA | NEW ZEALAND | KAZAKHSTAN | TURKEY | GEORGIA | AZERBAIJAN | IVORY COAST | ITALY
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JGA 4 BOOSTER CE BOOSTER COMPRESSOR

EQUIPMENT CONFIGURATION

Suitable for air or N₂ service, Ariel JGA four-throw reciprocating compressor, using four stages of compression, receives gas at 330 psig (23 bar) and delivers gas discharge pressure up to 5,000 psig (345 bar), and total flow of 2,000 scfm (56.5 m³/m). The booster package is self-contained in a DNV 2.7-1 container and is powered by a Caterpillar C-18 diesel engine. The package also contains a vertical cooler for process cooling and a radiator for equipment utilities.

Each compressor package is controlled by industry-standard switch gauge control systems using FW Murphy equipment within a control panel mounted along the sides of the enclosure for easy operator access. All panels come with visual and audible alarms to warn operators of operational anomalies and to perform automated shutdowns if problems occur with the packages.

The compressor packages are built with removable roof panels to facilitate the removal of key equipment components, if required. Standardization of design and equipment are important considerations so units can be easily used by different operational teams and maintenance personnel, as well as spare parts inventory.

For 8 hours, all compressor packages are fully load tested using air before being shipped. All units are started, performance tested, and shut down. Load testing simulates the conditions that the units will experience on-site.

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| <ul style="list-style-type: none"> ○ Piping and vessels designed and built to ASME process piping standard B31.3 (extreme cyclic duty 100% X-ray) ○ Hand winch and safety chains on the package end doors ○ Removable sub frames for equipment with removable end bracing on end walls ○ Engine muffler and exhaust insulation on all packages inside structure ○ Waste oil storage incorporated in structure frame rails with piping for drains ○ One low level switch on the fuel day tanks wired to a 24 volt DC strobe light ○ Four 24-volt fixtures and switch rated for Class 1, Division 2 and wired to 24 volt battery bank ○ One diaphragm pump and manifold station with 20ft discharge hose, male and female camlock fittings, plug and cap | <ul style="list-style-type: none"> ○ PSV vent headers with a flanged skid connection ○ Scrubber manual dumps to skid edge ○ Connection at skid edge suction of 3 in RF flange with short spool to flange packages with 3 in 206 thread hammer union ○ Connections at skid edge discharge (main discharge, off spec vent, and PSV vent) are RF flanges with a short spool to flange packages with 2 in 1502 winged hammer unions with cap/plug ○ Filled with initial fluids (lubricants and glycol) and run tested for 8 hours prior to shipping ○ Sight glasses on the vertical vessels and bulls-eyes on the horizontal vessels ○ Double jacketed soft lifting sling that is DNV certifiable and designed for 50,000 lb four point 45° lift stainless steel equipment tags |
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JGA 4 BOOSTER CE

BOOSTER COMPRESSOR

SPECIFICATIONS

Make	Generon
Air/Nitrogen Delivery	2,000 scfm/min
Suction Pressure	330 psig (23 bar)
Discharge Pressure	5,000 psig (345 bar)
Ambient Operating Temperature	131°F (55°C)
Compressors	Ariel JGA-4 (4-stage tandem)
Power	Caterpillar C-18 engine Diesel powered 700-hp (560 kW) at 1800 rpm
Hazard Classification	All electrical equipment is Class 1, Division 2
Standards / Design Codes	ASME B31.3, API RP 500
Shut-Down Panel	Murphy TTDJ-DC-T control panel
Cooler Make & Model	AXC cooler model 60VV
Skid Dimensions	H 9 ft 5 1/4 in × W 8 ft × L 19 ft 10 1/4 in (20 ft ISO/DNV 2.7-1 container)
Weight	38,550 lb (17,486 kg)

