

Gas Booster Systems

Safe, reliable and energy saving, gas pressurization and transfer systems.

Haskel are specialists in the design and manufacture of gas booster systems for use with inert and specialty gases

Designed to pump from high or medium pressure sources and will also function effectively to collect and transfer the gas from partially depleted supply cylinders to "top off" other cylinders to maximum pressure.

Conventional industrial, shipboard or contractor type compressed air sources are normally used for power. All motive power and controls are completely pneumatic with no electrical connections required.

Basic boosters are two-stage, rated for continuous duty compression ratios of over 15:1, intermittent to 40:1.

A pneumatic control package continually monitors both inlet cylinder pressure and outlet receiver pressure, stopping the booster automatically when desired outlet or minimum inlet pressure is reached, permitting unattended operation.

Specifications

Booster: Air driven, balance opposed piston type, two stage

High Pressure Chambers: Non-lube, hydrocarbon-free, triple sealed and vented from the drive air chest.

Air Drive Section: No oiling required, corrosion resistant factory lubed at assembly, 150 psi max. (10.3 bar) drive pressure.

Particle Filters: Inlet and outlet gas: 5 micron. All stainless steel.

Gauges: Stainless steel tube, solid front 4-1/2" dial size.

Port Sizes: Inlet & outlet gas: NPT female; Air Drive: 2 NPT female.

Control Range Adjustment: Inlet minimum: 150 to 850 psi (10.3 to 60 bar) cutout. Outlet maximum: 800 to 5,000 psi (55 to 345 bar) cutout. Safety relief outlet: 800 to 5,000 psi (55 to 345 bar).

Cooling: With air exhaust to both stages and intercooler.

Noise: 80 db range pulses, depending on working pressure.

Maintenance: Simple seal kit replacement.

Installation: No special foundation, no tie down required, and no electrical connections.



Model 26968 Oxygen Booster System

Features

- Drive is a low friction, slow speed cycling air cylinder, designed for continuous duty without airline lubrication. Vented distance pieces insure hydrocarbon-free gas section operation. High pressure seals are wear compensating, immune to sudden failure and operate completely non-lube, oil free.
- Very cold air (as low as -20° F) is a natural by-product from the air powered drive exhaust. This frigid exhaust air is channeled through a system of cooling jackets and interstage cooler, resulting in high pressure cylinder temperatures well below limits needed for long life of critical parts.
- Inlet gas supply pressure acts directly through the opposed piston construction to assist the air drive during the compression stroke, conserving power required by the drive in direct proportion to the gas supply pressure.
- Systems for Oxygen service are Oxygen cleaned in state of the art clean room facilities to meet US Navy Mil Spec 1330.