

# HIGH-PRESSURE BREATHING AIR SYSTEMS

For Municipal or Industrial Fire Departments that operate multi-stage mechanical air compressors with purification and storage cylinders



## KEY FEATURES:

- **EASY INSTALLATION** - Just two connections: Medium-Pressure Air Inlet and High-Pressure Air Outlet. No special foundations required and can be mounted in any position.
- **FAST FILL CAPACITY AT ANY PRESSURE** - High-Pressure Breathing Air Systems output rate is 45 to 80 scfm during a typical fill.
- **INCREASED SYSTEM CAPACITY** - High-Pressure Breathing Air Systems continue to provide 6,000 psi fills even if storage cylinders have dropped as low as 500 psi.
- **HOLD PRESSURE** - Can be controlled to stop at any predetermined pressure, hold that pressure indefinitely without consuming power, and can restart under full load.
- **NO INTERNAL CONTAMINATION** - High-Pressure Air Section consists of dry pistons, non-lubricated and hydrocarbon free. An air line lubricator is not required.
- **ELIMINATES CASCADING**
- **LOWER COMPRESSOR MAINTENANCE** - Final stage compressor heat load is reduced, and cold starts for direct fills are eliminated.

## FOR SUPPORT OF FIRE AND SAFETY EQUIPMENT

The **HII** Breathing Air Booster is a reciprocating piston assembly that compresses breathing air using a pneumatic drive. The non-lubricated air boosting section is available in single-acting / single-stage, double-acting / single-stage and two-stage configurations.

**HII** Breathing Air Boosters are non-contaminating. The units provide complete separation between the driving air and the air being boosted and there are no electrical connections required. The breathing air section is non-lube and oil free.

The Model HIHPG3 system is designed primarily for municipal fire departments. It can boost directly into SCBA bottles from an existing multistage mechanical air compressor system with purification and storage. The system can fill at output pressures to 6,000 psi from storage cylinders as low as 500 psi, eliminating the need for cascade valving. Existing medium-pressure purifiers and storage cylinders may be used on the inlet side of series HIHPG2 and HIHPG3 models. The system boosts the breathing air to the final pressure selected by the operator and stops automatically.

### Approximate fill-time for a 45 cu-ft cylinder to 4,500-psi\*

System pressure after equalization	Approx. fill-time	Approx. fill rates
2500-psi	36-seconds	32-scfm
2300-psi	43-seconds	30-scfm
2000-psi	56-seconds	26-scfm
1500-psi	86-seconds	20-scfm
1000-psi	160-seconds	13-scfm

\*Based on 90-psi shop air and 45 cycles per minute.



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