**Q-DRIVE**

**A UNIQUE ELECTRIC SERVO DRIVE GAS BOOSTER**

Breakthrough compression technology that’s smart, clean, and delivers high volumes and unmatched efficiency—quietly.
Q-Drive is revolutionizing gas transfer and compression. Designed with smart electric servo drive technology, Q-Drive delivers efficient, clean, and quiet compression. This innovative gas booster is built to offer optimal performance and high flows.

This advancement in gas transfer and compression technology reaches unprecedented levels of quietness. It’s built to fully integrate with existing systems for easy implementation and its intuitive software and intelligent control modes simplify operation and minimize downtime.

**USER INTERFACE**

**Advanced Monitoring & Diagnostics**

Q-Drive’s user interface optimizes operational user capabilities and safety and improves gas booster functionality.

Q-Drive’s intuitive design features smart controls that allow for increased visibility of the system’s operations. The fully digital user interface can be programmed for maximum efficiency and allows operators to set parameters, adjusting settings as needed for improved performance. The remote access capability allows for quick and easy access to diagnostics and troubleshooting. This reduces the costly and time-consuming process of technical service in the field and system downtimes. The system’s predictive maintenance feature delivers automated maintenance reminders to ensure top performance.

**VOLUME COMPARISON**

*OSHA recommends that employees not be exposed to noise levels greater than 85dBA

- **dangerous**
  - 140dB: airplane taking off
  - 120dB: rock concert
  - 100dB: lawn mower
  - 80dB: *OSHA max exposure level
  - 60dB: Haskel Q-Drive <77dBA
  - 40dB: conversation
  - 20dB: birds chirping
  - 10dB: leaves rustling in tree

- **safe**
  - 0dB: normal breathing
POWERING Q-DRIVE.

Electric Servo Drive Advantages

Q-Drive is built with an electric servo drive. The rotation of the motor creates linear actuation, providing greater process control and high precision movement.

- Smaller footprint without lost flow rate and pressure
- Superior design with quick-change seal components, the fastest in the industry
- 25% less energy required for cooling than standard hydraulic intensifiers
- Advanced diagnostic system reduces maintenance and increases uptime
- Simplified design creates less parts to break, minimizing maintenance
- Environmentally friendly with significantly less energy consumption

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<th>Min Inlet</th>
<th>Max Inlet</th>
<th>Max Outlet</th>
<th>Rec Max CR</th>
<th>CPM</th>
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<td>1100 psi</td>
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INNOVATION THAT SHAPES THE FUTURE

Haskel, the leader in gas booster technology for over 70 years, offers the widest range of gas boosters with three distinct drive technologies: pneumatic, hydraulic and electric. We continuously work closely with customers to meet advancing industry needs.

GLOBAL COVERAGE
World-wide service from a global network of service and repair centers.

PROVEN TECHNOLOGY
Unrivaled reputation for safety, quality, performance and innovation.

QUALITY
Committed to customer satisfaction and continuous improvement. Accreditations: ISO, ATEX, CE and more.

TECHNICAL SUPPORT
Extensive product and application knowledge backed by our international network of engineering experts.

GAS BOOSTER COMPARISONS

**LIMITATIONS**

- AIR-DRIVEN
  Limited flow rates, very energy inefficient, noisy operation, not designed for continuous operation, limited control

- HYDRAULIC
  Noisy, large footprint, hydraulic leaks cause contamination (safety and environmental issues), cooling required, difficult controllability, pressure spikes wear on seals

- ELECTRIC-DRIVEN
  Cooling required

**BENEFITS**

- AIR-DRIVEN
  Inexpensive method of transferring or boosting high-pressure gas, compact, intrinsically safe, simple installation

- HYDRAULIC
  Higher flow rates than pneumatic driven, energy efficient (approximately 3x more efficient than Air-Driven Boosters), capable of 100% duty cycle

- ELECTRIC-DRIVEN
  Infinite controllability, programmable virtual diagnostics, clean, quiet (<80dBA), environmentally friendly, more efficient than other boosters, 100% duty cycle

CONTACT HASKEL

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Haskel® is a brand of Ingersoll Rand (NYSE:IR). For more information, visit www.ingersollrand.com