



For Your Most Ambitious  
Decarbonization Goals

**COOK CLEAN<sup>®</sup> SEALING SYSTEMS**

# THE BEST SYSTEM TO REDUCE FUGITIVE EMISSIONS FOR RECIPROCATING COMPRESSORS

Setting ambitious emission reduction goals is not just about combatting climate change – it's also in an energy company's best interest. It provides a pathway to meet ESG goals, gain a competitive advantage, and safeguard the future for you and your customers.

Lately, government regulations have refocused efforts on measuring and reducing fugitive emissions across the energy industry. In these operations, reciprocating compressors account for a percentage of continuous emission leakage with most leaks originating from the packing case. Companies looking for ways to meet regulations and demonstrate their emission reduction efforts to stakeholders can depend on Cook Compression to help.

We've leveraged our rich history and deep experience in the energy sector to design the most advanced emission reduction sealing system currently available for reciprocating compressors. The COOK CLEAN sealing system combines proven technology with engineering expertise to offer a sealing system that reduces fugitive emissions to near-zero levels.\*

COOK CLEAN sealing systems are designed for reciprocating compressor owners and operators who want to exceed emission regulations, maximize natural gas recovery, increase compressor efficiency and reduce downtime and maintenance costs. With its high performance and flexible range of design options, it is the industry leader in low-emission sealing systems.

*\*A leading compressor OEM has documented leakage rates near zero to 0.75 SCFM per throw when comparing COOK CLEAN's uncut seal ring (BTUU/CUU) technology against traditional packing technologies, both in controlled R&D environments and from field data.*



## IF YOU'RE VENTING GAS, YOU'RE VENTING MONEY

Whether in the form of regulatory fines, downtime, lost product, or increased maintenance, choosing an inferior sealing system will cost you. COOK CLEAN sealing systems are developed from innovative geometries utilizing high-performance materials and configured specifically for your compressor system.

### COOK CLEAN SYSTEM COMPONENTS

#### Uncut Ring Technology

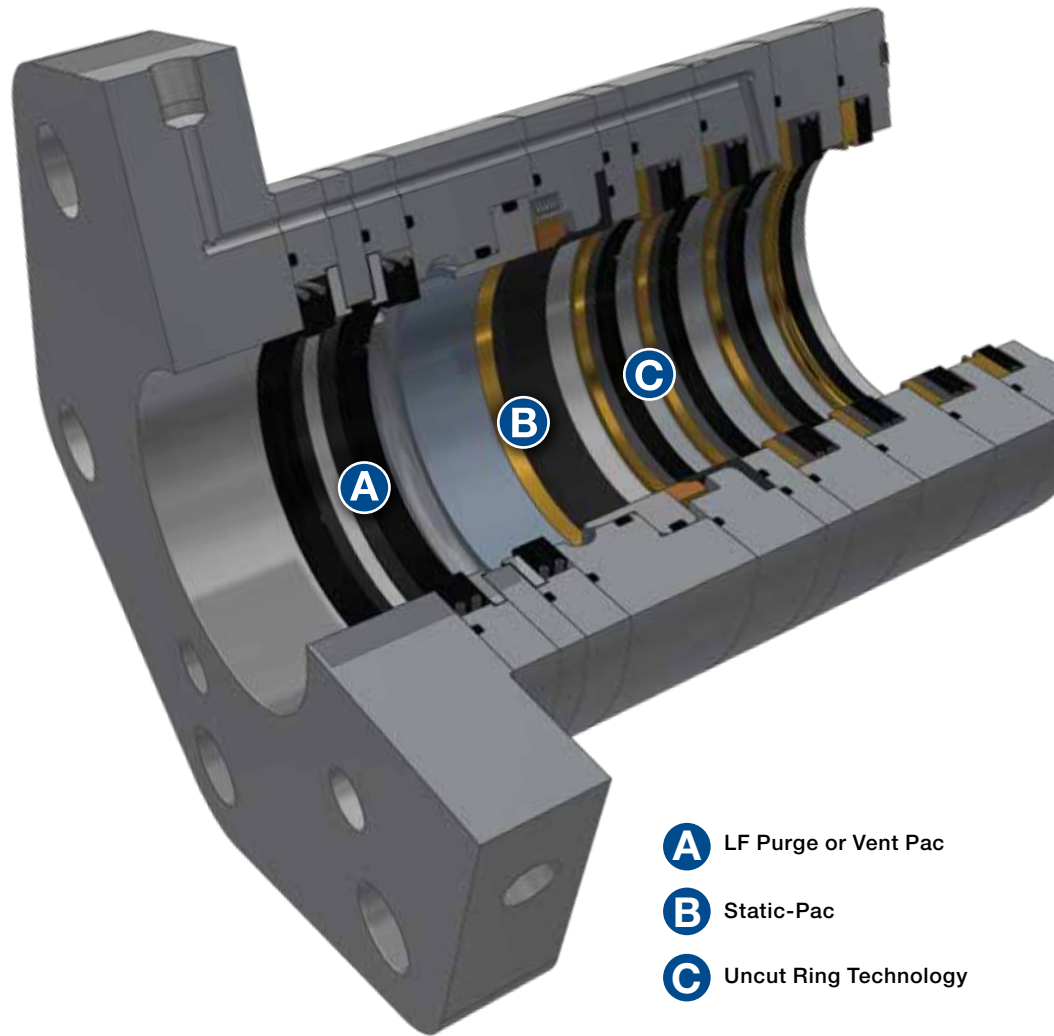
Our low-emission rings (BTUU™ or BTRR™) feature a gapless design that eliminates leak paths while the sophisticated sealing mechanism reduces frictional heat load. This allows packing assemblies to run cooler, reduce wear, extend run times, and decrease maintenance costs.

#### LF Purge Pac® or LF Vent Pac®

Depending on your compressor configuration, both the LF Purge and Vent Pac utilize our patented Low-Friction technology to create a high-performing, long-lasting seal. These components extend the service life of the packing case, reduce maintenance costs, accommodate standard-size seal rings, and retrofit most packing cases.

#### Static-Pac® Shutdown Seal

For compressors that remain pressurized during shutdown mode, this seal activates upon shutdown, mechanically forming a tight lip seal against the piston rod to lock in valuable gases. When activating pressure is released during compressor startup, the seal lifts off the rod surface to allow free movement. Static-Pac seals improve safety, enhance environmental compliance, and reduce downtime.



- A** LF Purge or Vent Pac
- B** Static-Pac
- C** Uncut Ring Technology

#### Other components

**Spiral wound gasket** - Highly conformable composite stainless steel/nonmetallic material creates a superior seal between the packing case and compressor

**Ultra-smooth packing cup surface** - Our enhanced lapping technology provides excellent surface-to-surface contact for a tight seal



## WHAT IS COOK CLEAN®?

Cook Compression developed COOK CLEAN solutions to support our customers' decarbonization efforts. The COOK CLEAN portfolio of compressor components, technology, and systems helps companies meet government regulations, corporate ESG goals, and the desire to make the world a better place. COOK CLEAN products are backed by decades of engineering knowledge, industry expertise, and research capabilities and have been proven effective through years of rigorous testing and field experience.



## READY TO GET STARTED?

Visit [www.cookcompression.com](http://www.cookcompression.com) to find your local Cook Compression representative or submit an inquiry.



[www.cookcompression.com](http://www.cookcompression.com) | [info-cook@doverprecision.com](mailto:info-cook@doverprecision.com)