

# Copeland R-290 scroll compressor

For low- to medium-temperature refrigeration applications

## Improved efficiency and reliability plus quieter operation

Copeland offers a new solution for operators looking for improved energy efficiency in R-290 refrigeration applications. The Copeland scroll compressor showcases the latest innovation in scroll technology for refrigeration equipment. It is more efficient than standard reciprocating compressors with 70% fewer moving parts, improving reliability.

Copeland R-290 fixed speed models are intended for low- to medium-temperature refrigeration applications and are ideally suited for applications such as walk-in and reach-in coolers as well as soft serve and frozen carbonated beverage machines. These are wide-ranged, R-290 capable with lower sound and vibration recommended for supermarket, restaurant and convenience store operations.

The combination of food retail market trends, increased emphasis on sustainability initiatives and environmental and energy regulations are driving a transition toward more distributed refrigeration architectures. As the emergence of smaller-format stores has increased the adoption



of self-contained display cases, operators are transitioning to refrigerants with lower-GWP and selecting equipment that supports their corporate sustainability initiatives.

For OEMs of self-contained refrigeration systems, meeting these new requirements can present significant design challenges. The R-290 Copeland scroll compressor solves these design challenges while delivering significant energy efficiency and performance improvements.

The R-290 fixed speed scroll compressor can be used in a wide range of self-contained, reach-in and walk-in refrigeration applications. Copeland compressors provide OEMs and end users with a

means to achieve significant energy reductions and reap the benefits of scroll compression technology:

- Advanced temperature precision
- Significant reliability and performance improvements
- Ability to meet and/or exceed ENERGY STAR efficiency requirements

As refrigerant regulations evolve, refrigeration system approaches will continue to leverage self-contained, distributed systems and utilize lower-GWP refrigerant alternatives such as R-290. The Copeland fixed speed scroll compressor helps OEMs to meet these design challenges while allowing end users to adopt sustainable refrigeration strategies.

### Vertical fixed speed R-290 scroll models

Medium temp	Extended medium temp	Low temp
YB06KAU	YS08KAU	YF03KAU
YB07KAU	YS10KAU	YF04KAU
YB08KAU	YS11KAU	YF05KAU
	YS14KAU	YF06KAU
	YS15KAU	YF07KAU
	YS18KAU	YF08KAU
	YS21KAU	
	YS23KAU	
	YS26KAU	
	YS30KAU	

For more information about Copeland scroll compressors, refer to Application Engineering bulletins or visit [copeland.com](http://copeland.com)