

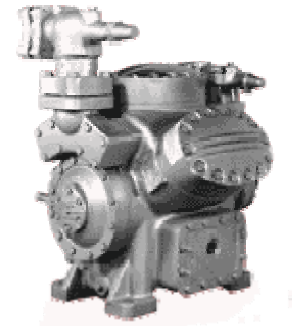


Time-Tested Technology Addresses Current Industry Concerns

Environmentally Sound And Cost Effective: Carlyle Open-Drive Compressors Offer Performance Advantages for Supermarket Applications

With fuel and other costs rising rapidly and concerns about the environment and global warming escalating, refrigeration customers are constantly looking for more efficient and environmentally sound solutions that will help solidify a brighter future for businesses and people alike. Welcome to the newest movement that has already achieved worldwide momentum: green thinking and environmental sustainability. Increasingly, Carlyle's 5-line open-drive compressors are looking like an answer for innovative and cost-effective retail and supermarket applications that are also environmentally responsible.

Open-drive compressors have existed for more than fifty years. The Carlyle line of compressors are made from high-quality cast iron and provide enough weight to significantly reduce compressor vibration. Also, with today's advanced laser alignment tools that align the compressor and its motor within a fine tolerance, vibration is minimized and the possibility of leaks significantly reduced.



An increasing number of supermarket chains have looked at the advantages of operating the 5H compressors in 2-stage systems at lower 1160 RPM speeds. They have found the advantages in reduced vibration, improved reliability, higher efficiencies and lower overall refrigerant charges. And the higher efficiencies and reduction in refrigerant charges not only reduce costs but help the environment.

Separating the compressor from the motor has a number of cost-effective and environmental advantages in supermarket applications. First, unlike a conventional system where the heat generated ends up in the condenser, with open-drive compressors the system does not need to remove heat produced by the motor. This can improve the energy efficiency of the system by up to 20% when combined with 2-stage system operation at lower 1160 RPM speeds. This solution provides greater flexibility and cost-savings than when using conventional compressors.



Carlyle 5-line compressors also minimize the amount of oil needed to maintain proper oil levels. First the compressor design has a very low oil circulation rate. And in low speed, 2-stage systems the unique oil management system used circulates the oil between compressors rather than building up. Many systems that have been built using open-drive compressors are also using significantly less refrigerant, and can use R-404A, a non-ozone-depleting alternative. Open-drive compressor systems that are now operational across the country have been designed using less piping and fewer components, making them more cost-effective to build while also reducing the potential for leaks and minimizing maintenance concerns.

Many feel the biggest advantage of using open-drive compressor technology in new store systems is that these compressors have been performing efficiently and reliably for many years, whereas other potential solutions are relatively untested in the real world. And if 50 years of exceptional performance is not enough of an advantage, Carlyle also offers a

standard 3-year warranty on all 5-line compressors.

[Learn more about Carlyle open-drive compressors via our website](#), or [contact your Carlyle Sales Manager to discuss the benefits of using open-drive compressors in your refrigeration systems.](#)

About Carlyle Compressor Company

Carlyle, based in Stone Mountain, GA, is a leading supplier of compressors to the worldwide refrigeration and air-conditioning industries. Carlyle works with Original Equipment Manufacturers to develop innovative solutions for energy-efficient and environmentally sound refrigeration systems with its reciprocating and screw compressors. Aftermarket service and support is offered through the Carlyle Certified Refrigeration Partners (CCRP) wholesaler network. For more information about Carlyle products and services, visit www.carlylecompressor.com. For more information about the CCRP network of wholesalers, aftermarket products and store locations, visit www.carlyleccrp.com.

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