

MEET THE COMPRESSORS THAT ARE DRIVING AN ENTIRE INDUSTRY FORWARD.

05G AND 05K OPEN-DRIVE
RECIPROCATING COMPRESSORS



RELIABILITY FOR MILES.

When it comes to compressor technology in the transportation applications, reliability is everything. You need a solution that works harder, lasts longer and won't require constant maintenance or replacement. That's why the industry has counted on Carlyle for more than 50 years – and millions upon millions of miles.

Our **05G and 05K open-drive reciprocating compressors** are the industry workhorses, with a proven reputation for reliability, unmatched longevity and the lowest life cycle costs. And because transportation is all about moving forward, we continue to innovate and build on a solid solution with features to help you get the most out of your compressors, and ultimately, your fleet.

A FEW OF THE WAYS WE'VE EARNED OUR REPUTATION...

Isolated Crankcase from the Suction Stream

This design keeps oil in your compressor and out of the evaporator, resulting in lower oil circulation rates for the AC system and proper system lubrication.

Complex Casting

Provides an oversized suction plenum to reduce discharge and oil temperatures, which also reduces oil circulation rates for the AC system.

Generous Oil Sump

With an oil sump that is larger than the competitors', the 05G and 05K allow for less refrigerant dilution of the oil, a higher viscosity oil, less bearing wear and increased protection against refrigerant floodback.

Precise Capacity Control

Step unloading capability enables capacity control down to 33%. The unloaders on the 05G and 05K are also qualified to 8 million cycles.

Robust Valve Plate Design

With a valve plate designed to avoid suction valve failure in low ambient compressor operation, the 05G and 05K perform reliably in all seasons, maintaining bus dehumidification and interior bus temperature control.

Twin Port Design

Designed to run up high suction pressure, the twin port allows for high refrigerant mass flows to maximize compressor capacity and support better bus pull-down temperatures under high startup loads.

New Shaft Seal

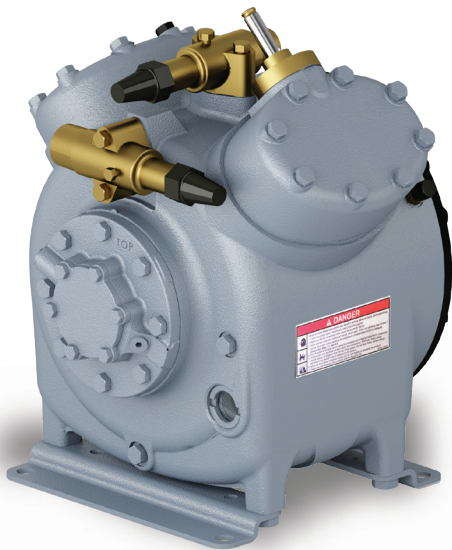
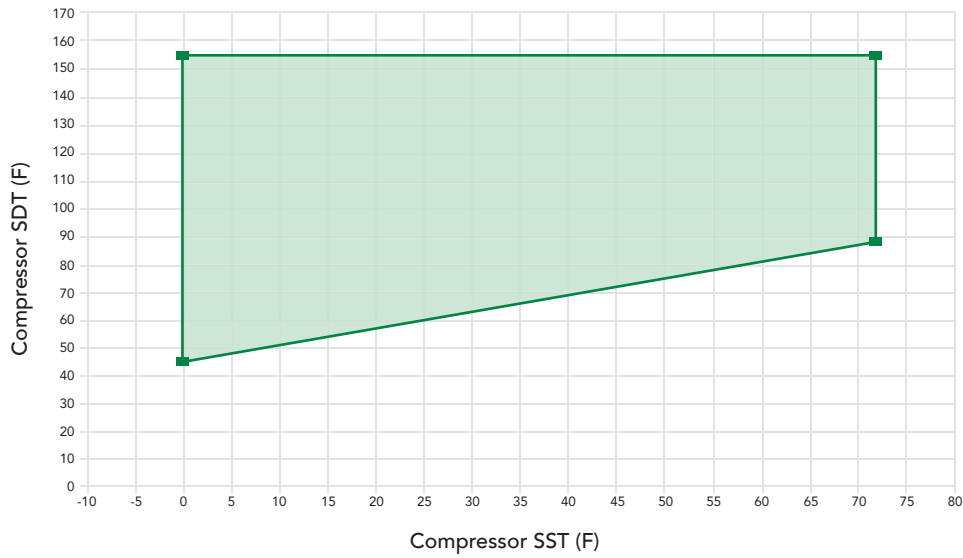
An improved shaft seal, which was reliability tested for four years in the field prior to release, reduces oil leakage by 10 times versus the previous design. This is accomplished through an internal check valve to retain oil in cavity to prevent dry start and a new seal material with high-temperature characteristics.

These are just a handful of the features that make the 05G and 05K the compressors of choice throughout the transportation industry today. Together, they add up to real-world reliability in the form of fewer maintenance and replacement headaches and lower life cycle costs. And we can't think of better reasons to count on Carlyle.

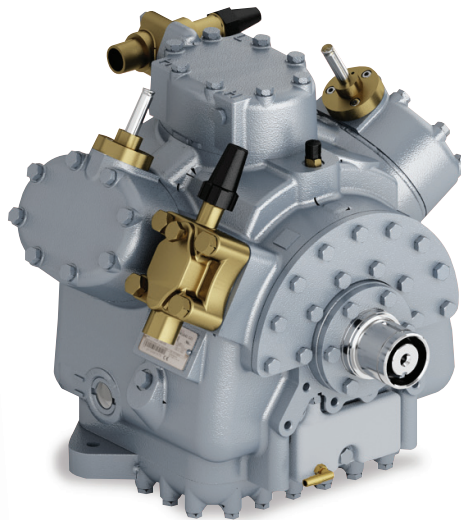
05G-41CFM and 05K-24CFM

Refrigerant: R134a

Operating Envelope



Model 05K



Model 05G



Model	05K-24CFM	05G-41CFM
Displacement	24 cfm	41 cfm
No. Cylinders	4	6
Capacity Control	1 Step, 50% Unloading	2 Step, 66% & 33% Unloading
Refrigerant	R134a	R134a
Oil Type	POE 68, 5.5 Pints	POE 68, 5.8 Pints
Speed Range	400-2,200 rpm with intermittent duty to 2,500 rpm	400-2,200 rpm with intermittent duty to 2,500 rpm
35F/110F @ 1,750 rpm	76,500 btu/hr, 8.2 BHP	122,800 btu/hr, 14.0 BHP

COUNT ON CARLYLE.

Carlyle is a world leader in compressor technology. Our products can be found around the world – from the first nuclear sub to your grocer’s freezer to entire bus fleets. That’s because when it comes to refrigeration and air conditioning, Carlyle builds the world’s most reliable compressors.



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