

Delphi Compact Variable Compressors

The next generation of variable displacement piston compressor technology, Delphi's Compact Variable Compressors (CVC) are based on a swash plate simple harmonic motion mechanism. The enhanced mechanism performance makes the CVC adaptable to both pneumatic and electronic control.

► Typical Applications

Delphi's CVC is adaptable to a full range of vehicles. While our current product portfolio includes CVC ranging from 125 cc displacement to 185 cc displacement, we will design and validate a CVC for your specific application. The CVC can be applied to both Thermostatic Expansion Valve and Orifice Tube systems. Special options available include:

- Electronic control
- Clutchless with electronic control
- Thermal fuse for drive belt protection
- Flexible pulley and clutch configuration options
- Various vehicle engine and refrigerant system interface options



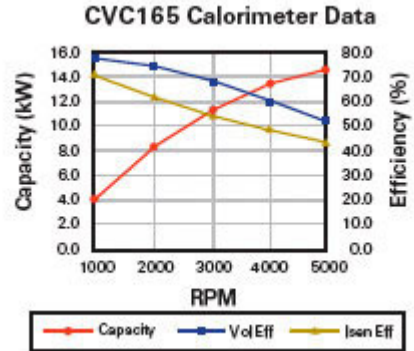
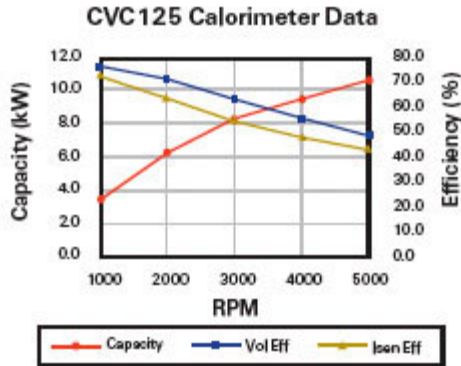
Delphi Compact Variable Compressors

Features	Benefits
Variable displacement design	Smooth, continuous operation Improved dehumidification Improved operator comfort Improved fuel economy
Die-cast aluminum construction	Lightweight
Integrated control valve	Compact packaging
Electronic control system capability	Enhanced system performance Improved cool-down
Compact clutch arrangements	Design flexibility
Compact overall package	Greater packagability Lower mass
Best in class NVH characteristics	Quieter operation Greater customer satisfaction
Clutchless option Reduced size and weight	Packaging advantage
High pressure relief valve	Improved system safety
High speed capability	Uninterrupted A/C at high engine speeds

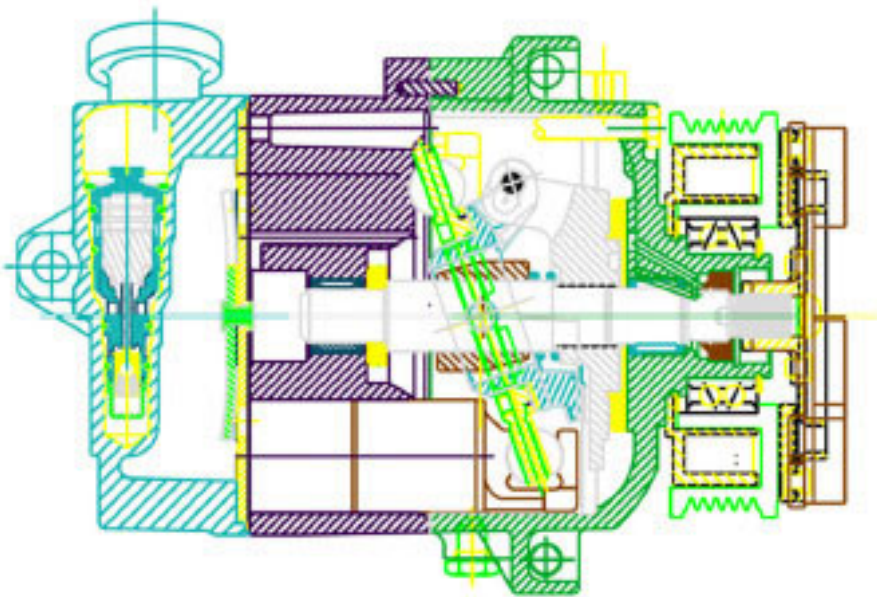
► Performance Advantages

The CVC's continuous displacement feature results in smooth, continuous compressor operation without clutch cycling, improving dehumidification and fuel economy. Through the use of its simple harmonic motion mechanism, preloaded shaft, optimized valve and porting system, and quiet clutch design, the CVC also delivers high speed operation, best in class output per mass ratio, best in class output to volume, outstanding noise, vibration and harshness (NVH) characteristics, and enhanced control performance.

► Performance



► CVC 165 Product Diagram



► Specifications

Parameters	CVC125	CVC135	CVC165	CVC185
Type:	6 piston swash plate mechanism, continuously variable	6 piston swash plate mechanism, continuously variable	7 piston swash plate mechanism, continuously variable	7 piston swash plate mechanism, continuously variable
Length:	195 mm	195 mm	206 mm	206 mm
Diameter:	114 mm	114 mm	124 mm	129 mm
Displacement(CC):	7 - 125	7 - 135	6 - 165	7 - 185
Dry Weigh:	5.2 kg	5.2 kg	6 kg	6.3 kg
Capacity (2000 RPM):	6040 watts	6520 watts	8200 watts	9300 watts
Operating Speed Maximum Continuous: Transient:	8000 RPM 9200 RPM	8000 RPM 9200 RPM	8000 RPM 9200 RPM	8000 RPM 9200 RPM