

Delphi Scroll Compressor

Description

The Delphi Scroll Compressor is a smooth-operating, quiet compressor that efficiently and consistently compresses air for use in a wide range of applications. Designed with a minimum of wear components, the Delphi Scroll Compressor takes advantage of advanced engineering and flow dynamics to achieve levels of performance that are more reliable than traditional compressors.

Operating Principle

The Delphi Scroll Compressor features a central core of two spiral-shaped scrolls, one of which remains fixed while the other orbits a common axis at variable speeds from 1,000 rpm to 6,000 rpm. This rotation allows the compressor to draw air into the chamber and move it through successively smaller sections, generating pressure rates from 5 psig to 50 psig until maximum pressure is achieved at the center. The air is then allowed to discharge through a central port for application. The efficient design minimizes heat and noise generation.

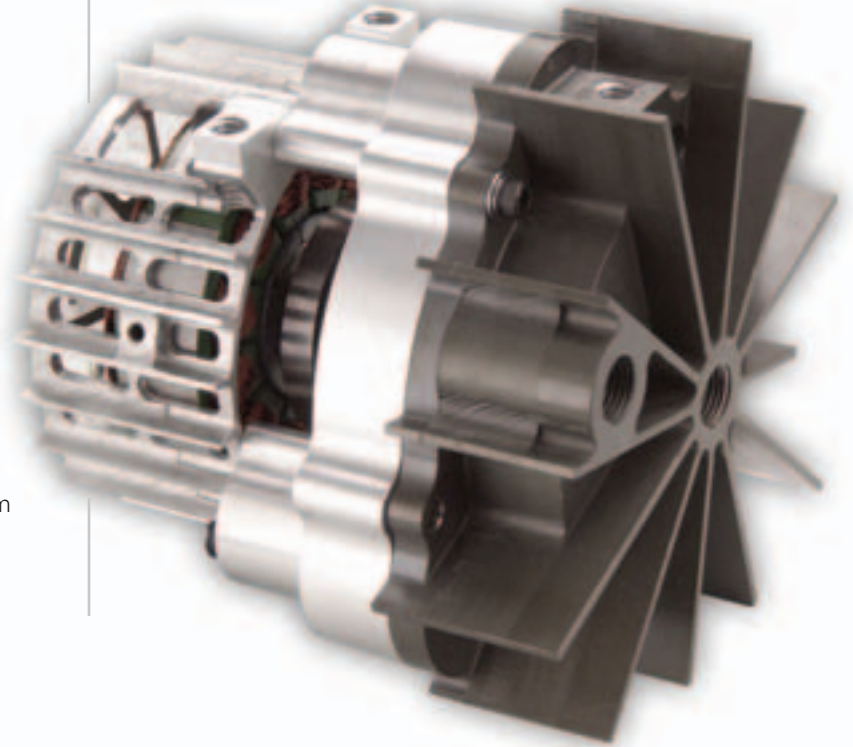
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Benefits

- Unique floating scroll design
- No wear prone-lip seal
- Continuous seal minimizes wear on critical components, improving performance and running time
- Simple design (minimal components)
- Target mean time to failure > 20,000 hours
- High efficiency
- Extended battery life
- Low heat generation
- Lightweight
- Low noise
- Virtually vibration free
- Low discharge pulsation
- Intake and exhaust separation, minimizing heat transfer
- Oil free
- Variable speeds 1,000 rpm to 6,000 rpm
- Flow rates 0.5 cfm to 10 cfm
- Pressure range 5 psig to 50 psig
- Vacuum systems available to 0.1 torr

Typical Applications

The Delphi Scroll Compressor is suitable for use in portable oxygen concentrators, stationary oxygen concentrators, ventilators, and portable/emergency aspirators.



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