

# Scroll Compressor Internal Components Explained

Category: Refrigeration

written by [www.mbsmpro.com](http://www.mbsmpro.com) | January 4, 2026



When technicians open a scroll compressor casing, the real engineering lives in internal mechanisms invisible at first glance: the floating seal preventing vacuum damage, the motor protector monitoring temperature and amperage, the pressure relief valve, the discharge check valve preventing reverse rotation, and the optimized bearing system. Understanding these core components transforms your diagnostic confidence.

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## Bitzer 4J-13.2Y-40P semi-hermetic

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The Bitzer 4J-13.2Y-40P is a semi-hermetic reciprocating compressor designed for demanding commercial refrigeration applications. Its nameplate provides critical information for installers, including voltage ranges of 380–420 V at 50 Hz and 440–480 V at 60 Hz, running current, starting current, displacement flow and maximum permissible shell pressures.