



LG is a top player in the global business solutions market, manufacturing advanced technologies for energy, air solutions, information displays, vehicle components, water treatment and mechanical equipment.



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**ADVANCED
PERFORMANCE.
EXCEPTIONAL
RELIABILITY.**

LG REFRIGERATION SCROLL COMPRESSOR





About the Refrigeration Scroll Compressor

The LG refrigeration scroll compressor features improvements inspired by the need for advanced performance and reliability. The optimized discharge valve is engineered with a robust reed valve that is twice as thick as competitors, which encourages optimal liquid stress tolerance. With this and other features, the refrigeration scroll compressor is engineered for smooth, energy-efficient operation in commercial refrigeration applications.

Features & Benefits

Discharge Reed Valve

Made to tolerate liquid stress and harsh conditions with a thicker and more flexible reed valve, as well as a wide range of refrigerant types. The reed valve design prevents the backflow of refrigerant and is built with steel nearly twice as thick as competitor valves.

High Volume Ratio Scroll Design

Optimized for better performance in conjunction with bypass valves.

Steel-free Stubs

Made with 100% virgin copper for ease of brazing specific to the LG refrigeration scroll compressor.

Discharge Check Valve

Increases system efficiency and prevents the backflow of refrigerant by managing refrigerant in the high side of the system during off cycles.

Vacuum Protection Device

Provides increased protection by preventing the compressor from running in a vacuum, directing hot gas to the low side compressor shell and motor overload protector. Protects better than competitor devices and helps avoid compressor replacement in the event of a repair issue that causes a vacuum.

Bypass Valves

Strategically placed reed valves at bypass ports relieve pressure at startup and maximize operational efficiency.

Internal Pressure Relief Valve

Protects against excessive discharge pressure.

Motor Overload Protector and New Motor Design

Actively responds to overheating with an optimized motor torque for refrigeration conditions.

