

# TWO STAGES. ONE EFFICIENT COMPRESSOR.

LG TWO STAGE MODULATING COMPRESSOR

## About LG

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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## About the Two Stage Modulating Compressor

The LG two stage modulating compressor features a design inspired by the need for a high efficiency alternative to the single stage compressor. Because they are often sized for demanding environments single stage compressors experience short cycling, which reduces efficiency.

LG's two stage modulating compressor operates at two capacities, allowing it to function in savings mode in moderate environments and in power mode in high demand situations. By eliminating short cycling, the two stage modulating compressor runs longer and more efficiently than its single stage counterpart.

## Features

### Flexible Capacity

Prevents short cycling by running at lower capacity at times to avoid rapid heating and cooling of the space, but can run at full capacity when needed.

### Savings Mode

During savings mode or partial load, the compressor runs at 67% capacity. When demands are low the bypass ports are kept open to allow some of the gas to pass through, reducing the capacity and stress on the compressor.

### Power Mode

In high demand situations, the compressor will run in power mode or full load. The bypass ports are kept closed, which keeps the air at full pressure and the unit running at 100% for faster cool times.

### Variety of Applications

Designed for both residential and commercial usage, including multifamily, mixed use and other spaces.

## Benefits

### Lower Cost

Two stage modulating compressors lead to lower costs than competitors due to a simpler modulation mechanism and fewer parts, in addition to lower energy consumption as the compressor operates only according to demand.

### Easy Installation and Repair

Designed with a weather-resistant, durable solenoid valve on the system's exterior to make repairs and service easy and accessible without disassembling the system.

### Better Indoor Air Quality

Continual air circulation through the filter and across the evaporator coil lowers indoor humidity.

