



The Inside Story: Scroll Compressors

Innovative Scroll Compression Technology Improves Home Comfort and More!

Scroll compressor technology can more precisely match system output to the temperature needs of your home, meeting the heating, cooling, humidity and energy needs in your existing or new home HVAC system.



How It Works!

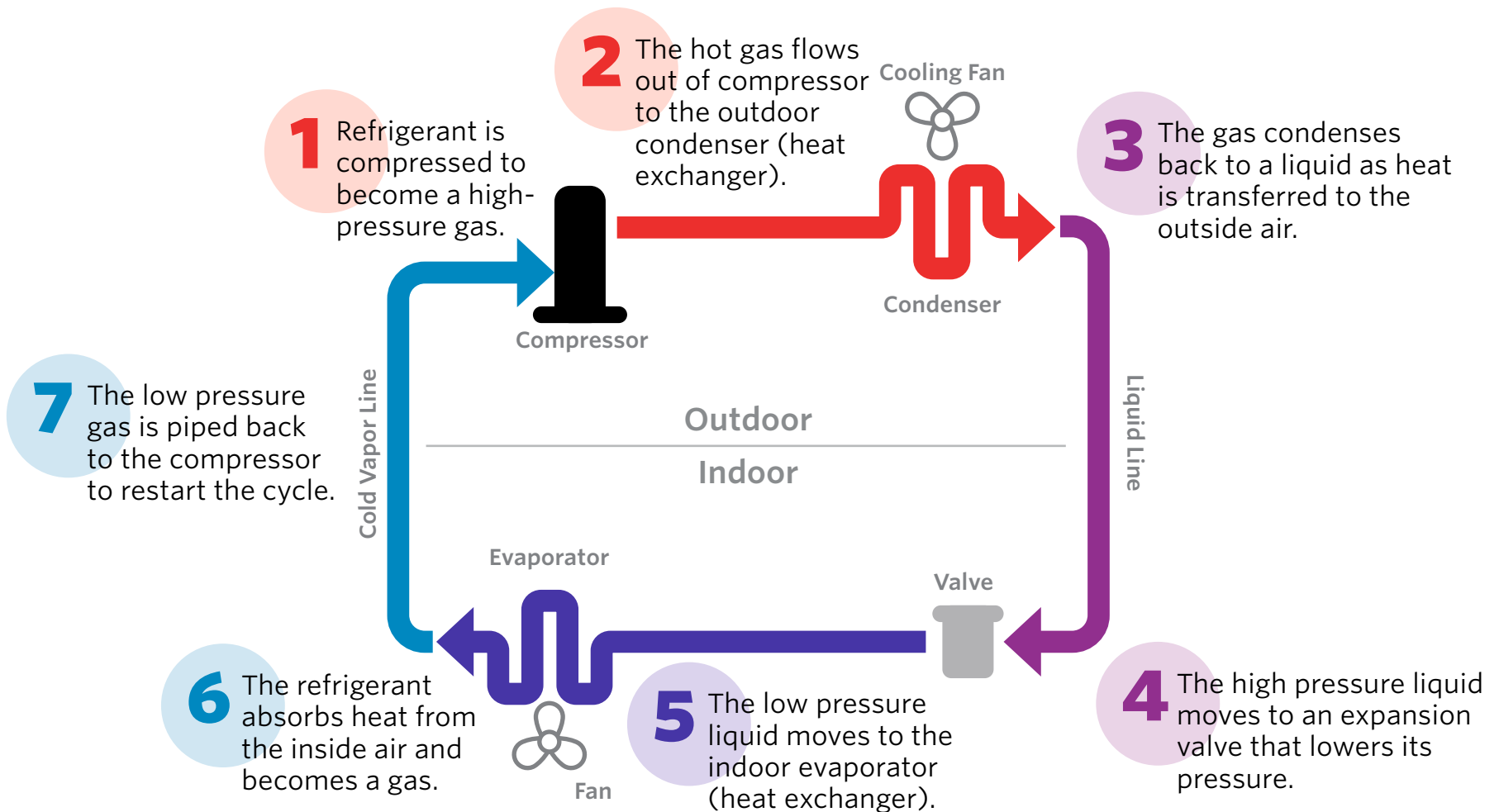
The genesis of scroll compressor performance is an innovative design that uses a spiral scroll that orbits in a path defined by a fixed scroll. The orbiting motion captures gas pockets between two scrolls and forces these pockets into an increasingly smaller cavity, resulting in its compression to the desired refrigerant discharge pressure.

HVAC systems with scroll compressors are proven to deliver:

- Quieter, more reliable operation
- Improved temperature and humidity control.
- Long life operation with reduced maintenance.
- Increased energy efficiency with lower energy costs.

One Scroll for All Seasons

Found at the heart of many residential HVAC installations, scroll compressors efficiently pump refrigerant through the system to effectively heat and cool a home.



Taking Your Home Comfort to the Next Level

Beyond the innovative scroll compressor design and system integration, modulation helps increase HVAC system efficiency and performance, as well as helping you tailor the overall comfort of your home.

Two-Stage

Depending on the cooling/heating demand, two-stage scroll systems runs the compressor at either 65% or 100% capacity for better temperature and humidity control, reduced HVAC on/off cycling, improved efficiency, and reliable operation for homeowners.

Variable Speed

For maximum efficiency, variable speed scroll systems continually adjust compressor operation to precisely match a home's cooling/heating demand, maintaining superior temperature consistency and humidity levels, while delivering exceptional energy savings.

25%

Energy Cost Savings compared to conventional HVAC systems

53%

Humidity Control Improvement

Breakthrough Efficiency:

25+ SEER Cooling

13+ HSPF Heating

40%

Lower Energy Costs

As part of your current or new home HVAC system, Scroll Compressors can make a real difference in terms of comfort, efficiency and value.

To find out more, visit www.climate.emerson.com/copeland