

Copeland Scroll™ variable speed compressors for residential applications



Copeland Scroll™


EMERSON™
Climate Technologies

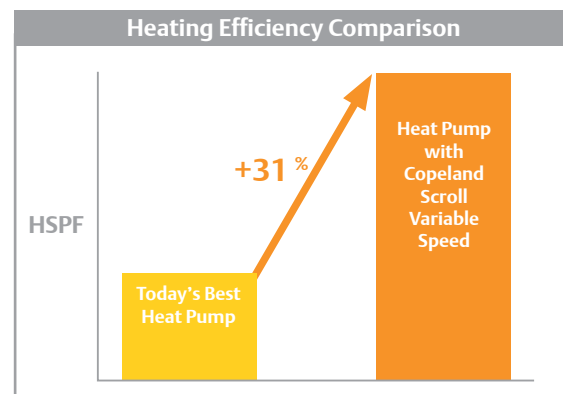
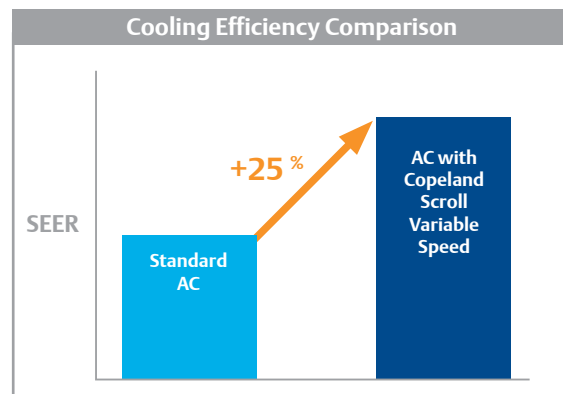
Breakthrough scroll efficiency. Enhanced comfort. Proven reliability.

The best thing in variable speed technology just got better

Breakthrough cooling and heating efficiency

Emerson's Copeland Scroll™ variable speed compressors are designed and engineered to deliver maximum cooling and heating efficiency when you need it most. With Copeland Scroll variable speed compressors, homeowners are able to save up to 40% on annual energy costs. Our latest second generation variable speed compressor technology enables system manufacturers and homeowners to achieve superior system performance, including:

- **Maximum cooling efficiency:** Capable of achieving 25+ SEER (Seasonal Energy Efficiency Ratio)
- **Breakthrough heating efficiency:** Capable of achieving 13+ HSPF (Heating Seasonal Performance Factor)
- **Enhanced light-load efficiency:** Turndown to 20% capacity enables better light load efficiency and dehumidification



The unmatched performance of Copeland Scroll variable speed compressors enables maximum cooling and heating efficiency



To download our e-saver mobile app visit
EmersonClimate.com/MobileApps



Proven Copeland Scroll platform, enhanced and optimized for variable speed

- **NEW:** Intermediate discharge valves to boost efficiency across a range of conditions
- **NEW:** New gas management method enables smooth gas flow into scroll set
- **NEW:** Optimized scroll elements for variable speed performance
- **NEW:** Positive displacement oil pump enhances reliability
- Brushless Permanent Magnet (BPM) motor technology for maximum efficiency



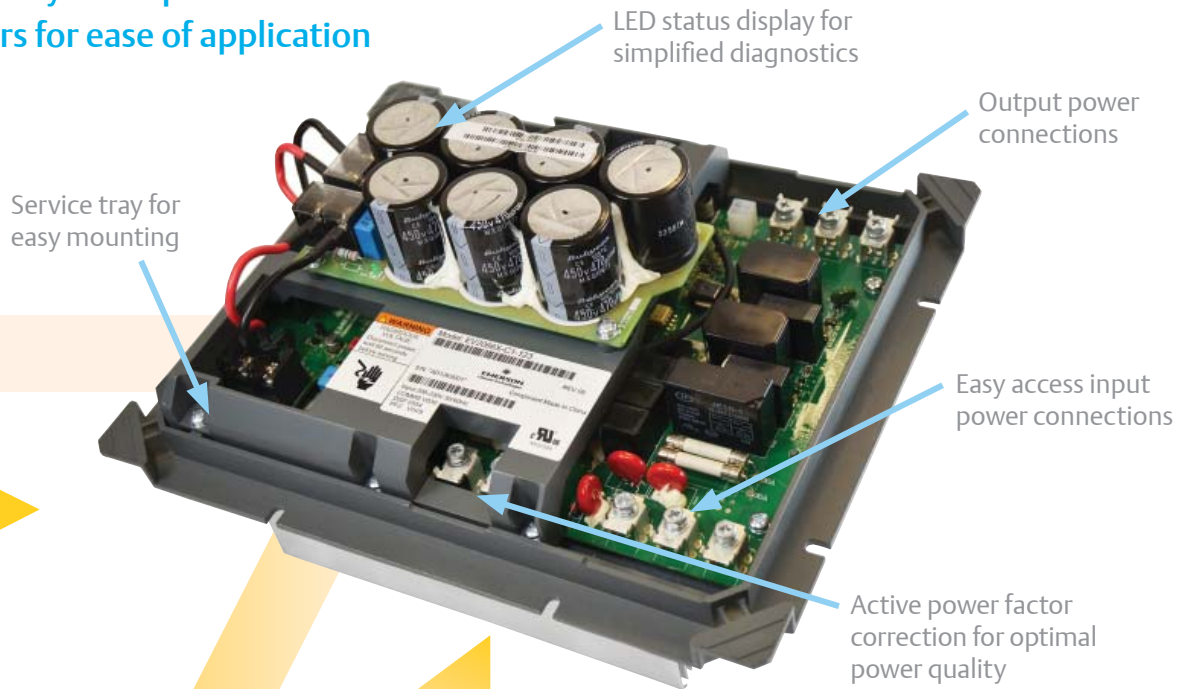
2 Drive converts AC to DC power, sends it to compressor BPM motor, dynamically adjusting its speed

3 Drive manages compressor operation to ensure efficiency and protection from adverse circumstances such as lightning strikes, etc.

The latest in technology and value.

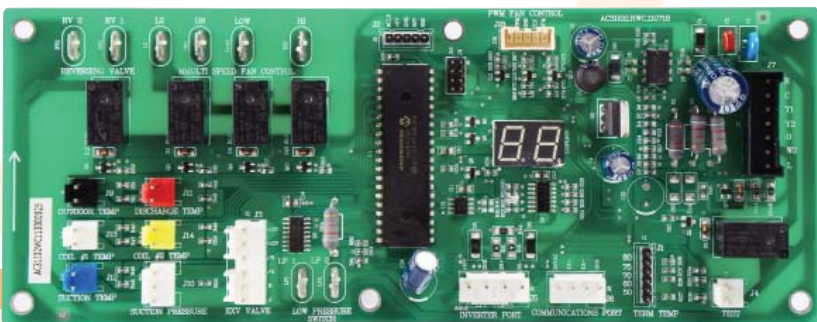
Emerson's compressor and motor control drive technology provides enhanced system performance and value

Revolutionary motor control drive technology, optimized specifically for Copeland Scroll variable speed compressors for ease of application



4 Drive communicates diagnostics to system control

1 System control provides speed signal to motor control drive

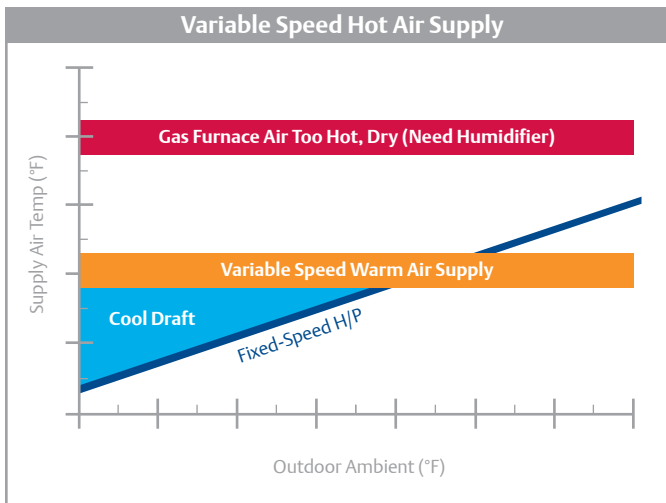




Enhanced comfort

The next generation Copeland Scroll variable speed design enables homeowners to experience a new level of comfort thanks to the following enhancements:

- **Even temperatures:** Wide turndown capability means steady temperatures precisely tuned to the thermostat set point
- **Precise humidity control:** Turndown to 900 RPM in cooling mode means less cycling and better dehumidification
- **Hot air supply:** 7000 RPM overspeed capability in heating mode provides hot air supply even in extreme cold winter conditions

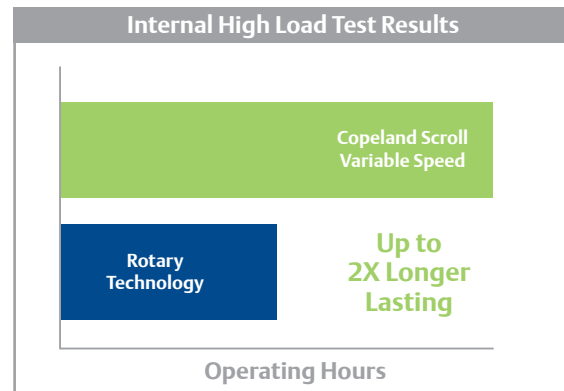


This unique compressor design enables heat pumps to supply hot air even during cold winter conditions

Proven reliability

Copeland Scroll variable speed compressors represent the pinnacle of reliability through enhancements such as:

- **Active protection algorithms:** provided by the Emerson™ motor control drive
- **Robust scroll design:** Outstanding reliability over competing compression technology
- **Proven in-field performance:** 25 years of scroll experience and more than 100 million installations around the world



See for yourself

Breakthrough efficiency. Enhanced comfort. Proven reliability. See how Copeland Scroll variable speed technology can improve your business results. For more information visit EmersonClimate.com/CopelandScroll

EmersonClimate.com

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