

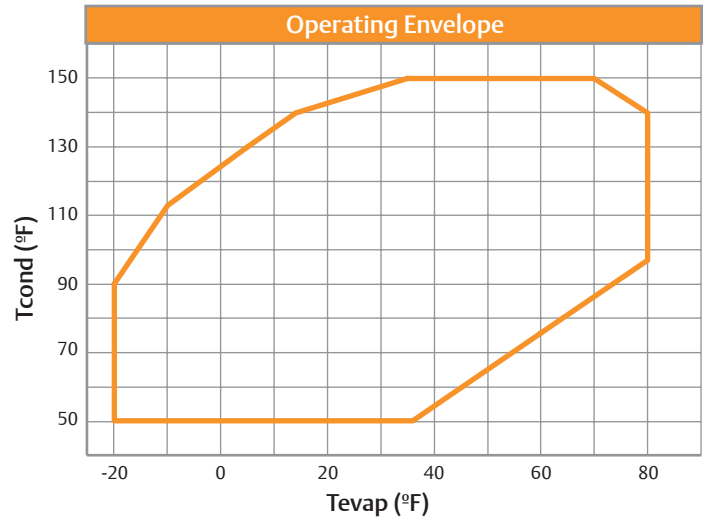


Comprehensive protection and reliability

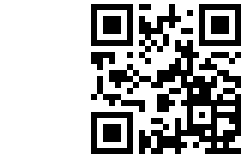
Copeland Scroll variable speed compressors take reliability to a new level with the integration of CoreSense™ technology. These active protection algorithms incorporated into the motor control drive safeguard the compressor and drive from many adverse operating conditions. The types of protection features include:

- Motor & scroll temperature protection
- Locked rotor detection
- Phase protection and correction
- Maximum operating current detection
- Discharge line temperature protection
- Anti-short cycling

This builds upon the reliability and proven performance from 25 years of scroll experience and more than 100 million installations around the world.



Compressor Model	ZPV0631E-4E9-XXX	ZPV0961E-4E9-XXX
Displacement	63cc	96cc
Speed Range	1,500 - 7,200 RPM	1,500 - 7,200 RPM
Voltage Range	380-575V	380-575V
Drive Model	CSD100	CSD100
Drive Size	11kW	15kW
		Coming Soon 2015
Performance		
Condition (Evap/Cond)	50/120	45/130
RPM	5,400	5,400
Capacity (BTU/Hr)	127,000	108,000
EER / IEER	13.8/25.4	10.5/25.4
Sound (dBA)	81	78
		Coming Soon 2015



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Copeland Scroll™ variable speed compressors for commercial HVAC applications



Copeland Scroll™



Superior efficiency, control and reliability

Introducing the latest innovation of Copeland Scroll variable speed technology – for maximum commercial HVAC system performance.



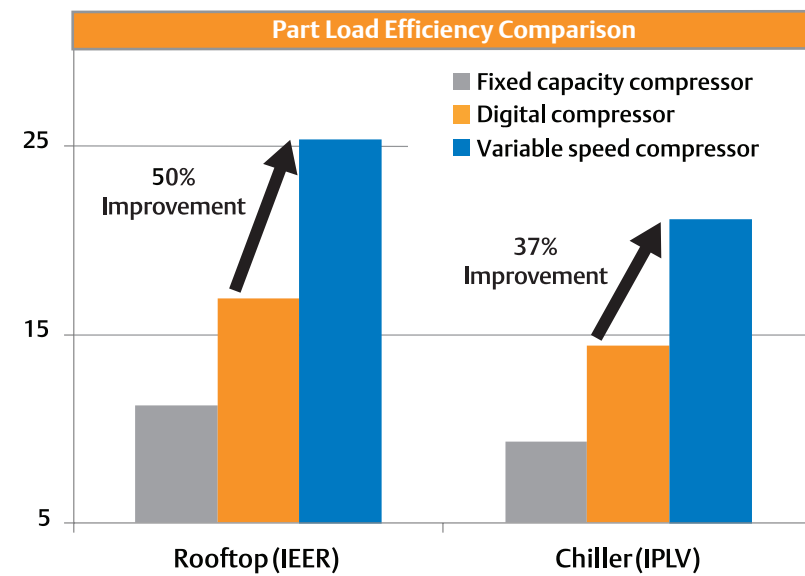
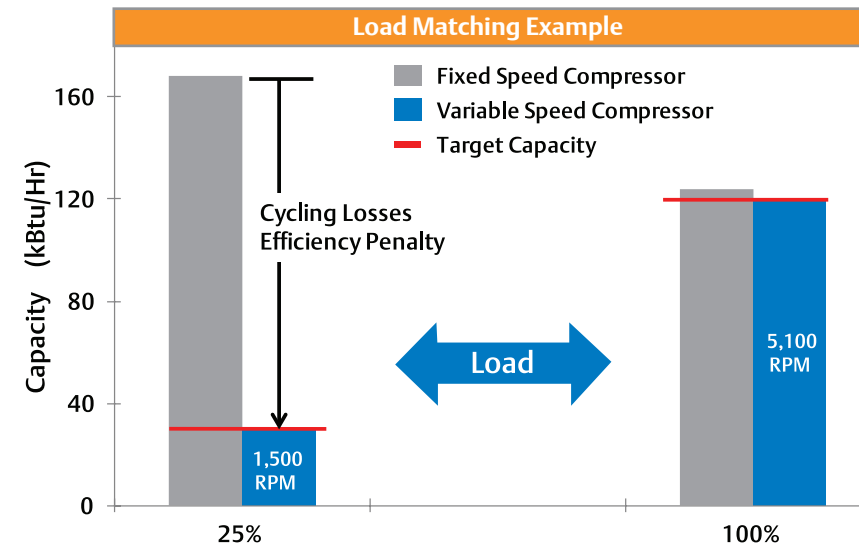
The latest in technology and value

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

Breakthrough efficiency

Emerson's Copeland Scroll variable speed compressors are designed to deliver maximum cooling and heating efficiency when you need it most. Whether designing for a roof-top unit in the United States or an air-cooled chiller in Europe or Asia, our latest variable speed compressor technology allows system manufacturers and building owners to achieve superior performance, including:

- Expansive 1,500-7,200 RPM speed range for enhanced light load efficiency and dehumidification
- Highest part load efficiency in its class enabling significant energy savings and standards compliance
- Capability to 'tandemize' for maximum flexibility in system design
- Both compressor and drive are UL 60730 approved for reduced design time, cost, and speed to market



The unmatched efficiency of Copeland Scroll variable speed enables maximum efficiency

Proven Copeland Scroll platform – enhanced and optimized for variable speed

- Optimized scroll elements for variable speed performance
- Low oil circulation compressor plus scroll oil injection for low speed performance and reliability
- BPM motor technology for highest efficiency
- Sound reduction technology for reversible chiller transition and defrost



Expansive control

The Copeland Scroll variable speed design enables system manufacturers, building owners, and contractors alike to experience a new level of control thanks to the following enhancements:

- Expanded operating envelope providing the greatest flexibility in design and desired condition
- Low turndown to 1500 RPM means less cycling for better dehumidification and light load efficiency
- Enables precise temperature and humidity control across a wide range of conditions
- Proactive envelope control and resonance avoidance
- AC drive controls motor stator heating thereby eliminating the need for a crankcase heater



Key motor drive features

- AC drive with optimized permanent magnet motor control for maximum performance and reliability
- Dedicated compressor menu structure and parameters for quick and easy setup
- Option range of multi-language click-in LCD keypads available for rapid set-up and superior diagnostics
- RS485 Modbus® communications as standard
- Slot for Smartcard / SD card for parameter cloning, storage, backup, and restore
- Compact aluminum chassis allows flexible mounting, with built-in high performance extruded heat sink
- System integration module slots for I/O, ethernet, and automation controller options

See for yourself

Efficiency. Control. Reliability. To learn more about Copeland Scroll variable speed compressors and how they can improve your business results visit EmersonClimate.com/CommercialScroll.