

# Copeland™ compressors with CoreSense™ technology

## Air Conditioning



CoreSense Diagnostics for Copeland Scroll



Copeland Scroll™ with CoreSense Communication



CoreSense Protection for Copeland Scroll

### Benefits

Actively protects Copeland Scroll compressors from critical failure

Five system alert codes

Data port for fault history download

Reduces field failures and warranty claims

Onboard Modbus communication

Integrated protection and phase monitoring

Diagnostic fault history over life of compressor

Featured on 24-40 HP Copeland Scroll compressors

Designed to help contractors troubleshoot residential air conditioning systems

Reduces field failures and warranty claims

### Applications

Residential air conditioning and heat pumps, single-stage systems

Commercial rooftop air conditioning and chillers

Available in tandem/trio configurations

Residential air conditioning and heat pumps

Superior replacement for single or two pole contactors

## Refrigeration



Copeland™ PerformanceAlert



CoreSense Diagnostics for Copeland Scroll K5 compressors



CoreSense Protection for Copeland Discus compressors



CoreSense Diagnostics for Copeland Discus compressors

Actively protects any Copeland compressor

Diagnostics and data monitoring assist with troubleshooting

Onboard Modbus® communication capability

Delivers unmatched energy efficiency resulting in 5-20% improvement

Motor, scroll and bearing redesign minimize annual energy consumption

Redesigned suction gas flow results in lower oil circulation and better motor cooling

Delivers enhanced reliability onboard as standard on every 2D-6D Copeland Discus compressor

Provides oil pressure, motor and discharge temperature protection

Stores fault history information

Communication enables remote reset

Provides protection features found in Copeland Discus with CoreSense Protection

Integrates traditional high/low pressure cut-outs with compressor

Enhanced diagnostics and protection via advanced current sensing algorithms

Communication enables remote reset

Commercial refrigeration equipment

Food processing and retail

Commercial refrigeration equipment

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# CoreSense™ technology for refrigeration

Download the QR reader app for your smartphone or tablet, then scan the code for more information



	Copeland PerformanceAlert	CoreSense Diagnostics for Copeland Scroll K5 compressors	CoreSense Protection for Copeland Discus compressors	CoreSense Diagnostics for Copeland Discus compressors
Technology and Troubleshooting Information				
Application Engineering Bulletin	 AE-1347	 AE-1383	 AE-1367	 AE-1368

[EmersonClimate.com/CoreSenseRefrigeration](http://EmersonClimate.com/CoreSenseRefrigeration)

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