

CoreSense™ Diagnostics for Copeland Scroll® UltraTech® compressors



Greater reliability and homeowner satisfaction

Fewer callbacks and expensive repairs

CoreSense™ Diagnostics for two-stage Copeland Scroll® UltraTech® compressors is a breakthrough innovation to assist contractors in troubleshooting residential air conditioning system problems. By using the compressor as a sensor, CoreSense Diagnostics gives technicians insight into the system through the compressor, providing valuable information to help diagnose problems quickly and accurately, reducing costly callbacks. And, if conditions exist that could damage the compressor, CoreSense proactively shuts down the system. Homeowners enjoy peace-of-mind knowing their air conditioners and heat pumps will work without catastrophic failure and major repairs.



“By finding a way to draw more information from the Copeland compressor, Emerson’s CoreSense technology helps me achieve the reliability and costs savings I need, which is good for my business.”

– HVAC contractor

Reduce costly callbacks

Emerson’s CoreSense™ Diagnostics module makes today’s HVAC systems smarter. When put to the test, CoreSense Diagnostics for Copeland Scroll® compressors helped improve troubleshooting accuracy of an entry-level technician from 17 percent to 92 percent. Experienced technicians improved to 100 percent accuracy when assisted by CoreSense Diagnostics.

Unlock the power inside

Located conveniently in the condensing unit’s control panel, Emerson’s CoreSense Diagnostics module strengthens the two-stage Copeland Scroll compressor by unlocking advanced capabilities for diagnostics.

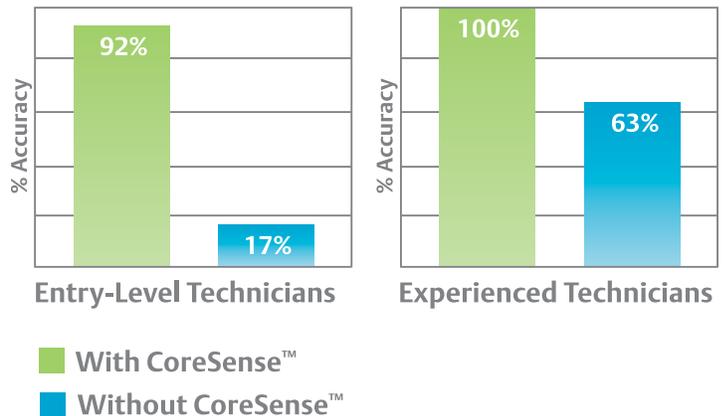
Ten advanced diagnostic algorithms provide the capabilities to detect adverse conditions such as pressure trips, locked rotor, and low voltage. LED indicators and system fault history stored in the module allows technicians to diagnose the past and present state of the system for fast and accurate troubleshooting and less downtime.

By using the compressor as a sensor, CoreSense gathers system operating information, analyzes the compressor’s current signature, and characterizes the compressor protector behavior. These parameters, among others, determine the foundation of the CoreSense algorithms that actively protect the compressor and system from catastrophic faults. This helps the contractor and homeowners alike avoid costly failures and improve overall system reliability.

For improved system performance and homeowner peace-of-mind, make sure you install systems with Copeland Scroll UltraTech® compressors featuring CoreSense Diagnostics.

Visit EmersonClimate.com/CoreSense for more information.

Problem-Solving Accuracy – Troubleshooting Air Conditioning System Faults



Emerson CoreSense Technology

CoreSense technology gives contractors access to information inside the compressor so they can identify performance issues quickly and accurately to ensure greater reliability. When adverse operating conditions are detected, CoreSense proactively shuts down the compressor to prevent system damage, saving contractors and homeowners money.