

Drive & Motion **Solutions**

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Industry: HVAC, Water and Wastewater

Application: Ventilation

Treated Air Energy Savings in Millions for National Grocer

Emerson Climate Technologies was asked by a major supermarket chain to implement a more energy efficient ventilation system for its more than 800 stores. Since the company's annual energy consumption runs into the millions of dollars, capturing energy savings would significantly add to the company's bottom line. Selling perishable foods, fresh treated air in its stores -- better control of temperature, humidity, and circulation -- was viewed by the company as a major factor in customer satisfaction and retention.

For a major part of the solution, Emerson Climate Technologies turned to Emerson Control Techniques and the Commander SE, the Simple-to-install and Easy-to-use Variable Speed Drive (VSD). The Commander SE is the ideal general purpose, open-loop vector drive to increase energy efficiency in fan and pump applications.



There are five frame sizes of the the Commander SE Digital AC Drive in three power configurations: 1/3 to 3 HP, 1Ø, 230 VAC, 1 to 10 HP, 3Ø, 230 VAC; and 1 to 50 HP, 3Ø, 460 VAC.

Click image for additional product information.

The multi-million dollar project, which will be completed this spring, brings together products, services, and expertise from across Emerson to deliver a truly integrated solution to meet customer's needs. The project required Emerson Retail Services to manage the installation of control products from Emerson Computer Process Controls, and VSD's from Emerson Control Techniques. In addition to coordinating the hundreds of outside resources needed to complete this multi-state project, Emerson Retail Services will remotely monitor the supermarkets on an ongoing basis.

Emerson Computer Process Controls has built and shipped hundreds of custom control panels and other products to meet the requirements of the project. To date, more than 4,000 Commander SE's have been installed, more than 325 miles of cable have been pulled, and more than 12,500 single-condensing units have been touched.

Once the project is completed, it is estimated that the supermarket chain will benefit by saving \$1,000 in energy costs per month per store – an approximate payback of \$48M over five years. The chain can also be assured the treated air in its stores will continue to be refreshing to its customers and employees for years to come.

For this project, Control Techniques, Computer Process Controls and Retail Services received the prestigious "Consider It Solved" Award from Emerson. It's the first time the annual award has gone to three Emerson companies for work on a single project. ■

Related Feature: Presentation: [Why Variable Speed Drives Reduce Energy Costs. \(PDF--2mb\)](#)



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