



# FIREYE® CC415 and CC430 POWER VENTER APPLICATION INSTRUCTION SHEET



Year 2000 Compliant in accordance with BSI document DISC PD2000-I:1998

## DESCRIPTION

The Fireeye® CC415 and CC430 oil burner primary controls are recycle type controllers providing interrupted duty operation for use with Fireeye high performance electronic ignitor (P/N SS20120-1) or most standard 10,000 volt transformers.

The Safety Monitoring Circuit is an integral part of the CC415 and CM430 versions of the Oil Primary Safety Control. The design constantly monitors the position of the motor relays when there is no call for heat. This monitoring assures that the control will not operate if the motor relay contacts are welded.

When the CC415 or CC430 Controls are used in a system which utilizes a power venter with a solid state timing relay, an isolation relay must be added. This relay prevents the voltage associated with the Safety Monitoring Circuit from inadvertently powering the power venter.

## INSTRUCTIONS



**CAUTION: Please review for applications using power venters.**

Insert the normally open contacts of a mechanical relay, with a 120 VAC coil, with a **maximum resistance of 3900 ohms** between the orange wire of the control and the input of the solid state timing relay. Connect the 120 VAC coil of the mechanical relay between the orange and white wires. If the relay that is used stays energized or chatters when the control is off, the coil resistance is probably higher than 3900 ohms.

Examples of relays that have been tested and will operate safely are:

- Honeywell R4222, R8222, R8228, R4228 Series with 120 VAC coil
- Potter and Brumfield KHU-17A11-120 VAC, KRP-11AG-120 VAC.

See back page for Wiring Diagrams.

**FIGURE 1. WIRING DIAGRAMS**

