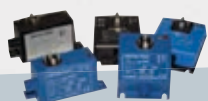## FCB24/FCE24 Ignition boxes

The FCEB24/FCE24 ignition boxes are the cornerstone of the temperature control systems. With a FCB24/FCE24 ignition box you have both ignition and flame control, all in one box using only one electrode.

When power is applied the ignition box starts igniting. If the ignition box detects a flame, the yellow lamp will turn on and the ignition box will cease sparking. After this, the ignition box will continue to constantly monitor the flame, and as long as the flame is detected, the yellow lamp stays on.

In case the flame disappears, the ignition box will initiate sparking for seven seconds and the yellow lamp will stop lighting. If no flame is detected after seven seconds of sparking, sparking stops, and a red lamp turns on to indicate a fault condition.

The FCB24 and FCE24 ignition boxes are identical with regards to electrical specifications, function and connectivity, but differ by their physical dimensions to suit different preferences for installation.



The newer FCB24 and FCE24 are fully backwards compatible with older models

**Indicators**
Red and yellow lamps indicate whether the system is running or in fault condition

**Electronic ignition**
Burners ignited electronically with spark plug controlled by ignition box

**Flame monitoring**
The ignition box constantly monitors the flame and closes the gas valve upon ignition failure



## Pt-100 sensor

The Pt-100 sensor is used in all temperature control systems for measuring the temperature. The sensor is a platinum RTD (resistance temperature detector) sensor, which measures temperature by correlating the resistance of the RTD element with temperature. It is connected to the rest of the system with a silicone cable protected in metal shield.