

## Ignition Box

### FCB24 and FCE24 for Flame Control and Monitoring

The FCB24/FCE24 Ignition Box is the cornerstone of the SC5-96 and STC1600 temperature control systems. With a FCB24/FCE24 Ignition Box you have both ignition and flame control, all in one box using only one electrode.

The FCB24/FCE24 Ignition Box controls ignition of the burner and continues to monitor the flame throughout operation.

Upon accidental blow-out of the flame, the Ignition Box will attempt re-ignition for seven seconds. In case of re-ignition failure, the Ignition Box closes the gas valve as a safety measure to prevent accidents caused by gas seepage.

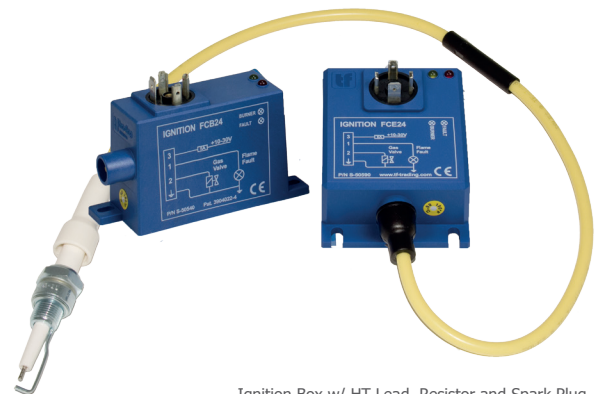
The status of the burner is easily viewed with red and yellow indicator lamps, and the print on the front makes it easy to install the FCB24/FCE24 Ignition Box correctly.

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 FCB24 and FCE24 are fully backwards compatible with older model series FCA12V, FCA24V and FCA30V.



The FCB24 and FCE24 Ignition Boxes



Ignition Box w/ HT Lead, Resistor and Spark Plug

Ignition Box Specifications	
Part Number	S-50540 (FCB24) S-50590 (FCE24)
Power Supply	12/24 Volt System (10-30VDC)
Power Consumption	Typical at 24 VDC 100 mA Max. 200 mA
Dimensions (LxWxH)	105x35x70mm / 4.1x1.4x2.8in (FCB24) 105x70x40mm / 4.1x2.8x1.6in (FCE24)
Weight	230g / 0.5lbs (FCB24) 250g / 0.55lbs (FCE24)
Storage Temperature	-40°C to 85°C / -40°F to 185°F
Operating Temperature	-10°C to 85°C / 14°F to 185°F
Valve Output	Max. 2.5 A
Min. Spark Frequency	10Hz
Flame Error Timeout	<9 sec. (Typically 7 sec.)