

Blower/Burner Assembly Detail

Spark Igniter

The control system energizes the spark ignition transformer with 120 VAC during the ignition cycle. The spark ignition transformer then sends a high-voltage current to the spark igniter which in turn ignites the main burner air/gas mixture.

Figure 1: BTH Blower/Burner Components

Flame Sensor

The control system also monitors the flame sensor to confirm a flame is present at the main burner. If a flame is not verified during the ignition trial period (3-5 seconds) the control system will immediately de-energize the 24-volt gas valve.