



Automatic Ignitor Sensor System

BASIC SYSTEM - MODEL H-6E

Operation:

The heart of the system is the ISPU-2 solid-state module that provides the high voltage spark to ignite and monitor a direct-fired oven burner. A small electric current flows from the ignitor to the burner, when the burner is lit. The ISPU-2 generates and monitors this electric current. The presence of electric current indicates burner flame is present. The ISPU-2 module keeps the burner solenoid fuel valve open as long as the burner flame is present. Should the burner flame fail, the ISPU-2 module reinitiates the 30,000 volt ignition spark for approximately 11-seconds. If the burner flame is not reestablished at the conclusion of the 11-second period, the ISPU-2 module closes the solenoid fuel valve, shutting off gas to the burner. Coinciding with a flame failure of the burner the two color LED on the H-6E unit turns red, indicating that the burner is down on safety lockout and is not functioning properly. In order to reset the ISPU-2 module and burner, the switch located on the H-6E unit must be turned to the reset position for approximately 10 seconds and then turned on again to re-ignite the burner. If the burner fails to re-ignite, it should be inspected to determine the reason for the malfunction. When the LED turns green, this indicates that the burner is turned on and firing properly. In addition, the H6-E unit comes equipped with a 24 VAC input port to allow maintenance personnel to test the burner operation.



Equipment Furnished:

- Mounting Plate
- ISPU-2 Assembly
- Junction Box with terminal strip, two color LED indicator, on-reset-test switch, and 24 VAC test port

Specifications:

- Electrical Rating: 24 VAC
- Ignition Sequence: Single trial for main burner ignition (then shut down and lockout)
- Ignition Trial Time (sec): 11 sec.
- Maximum Valve Load @ 24 Vac (Amps): 2



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