

SINGLE BURNER SOLID STATE

rotectofier combustion safeguard

Operates with FLAME ROD and/or

P-C II (Ultra-Violet) SCANNER

FORM 7256

- Compact Design.
- Time Proven Plug-In Solid State FLAME-PAK Amplifier.
- Plug-In, Interchangeable Relays.
- Plug-In Power Transformer.
- Flame Rod and/or Ultra-Violet Sensing. Independent or simultaneously using same FLAME-PAK Amplifier.







IRI ACCEPTED

Enclosed Dimensions 6" wide 7-5/16" high 5" deep

Open Dimensions 6" wide

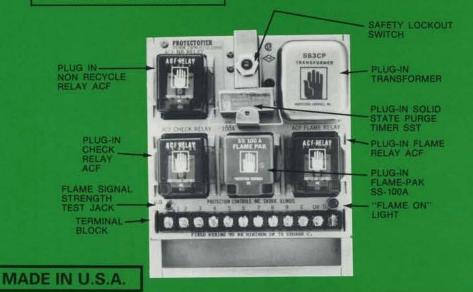
6" high

5" deep

- Solid State Plug-in Purge Timer Available in 15, 30, 60 and 90 Seconds. (Form 7256-BTNR)
- Safe Start Check on each light-off cycle.
- High Flame Signals minimize nuisance shutdowns.
- "NR" indicates automatic models provided with additional relay to prevent re-light attempt on flame failure.



FORM 7256-BTNRE



SPECIFICATIONS:

Ambient temperature: minus 20° to plus 140° F

Flame response: 2 to 4 seconds (0.8 sec. availa

Voltage/Frequency:

120V AC ± 10%, 50-60 Hz

Voltage at E terminal to ground: 390V AC

Voltage at UV terminal to ground: 590V AC

Power consumption: 35 VA or less

Rating: 125 VA pilot duty

COMPONENTS

CHECK RELAY (ACF): The plug-in relay make certain that the PROTECTOFIER is functionin properly. It is energized thru NC contacts of the Flame Relay. Failure of the Check Relay to prov safe-start check will prevent ignition and energizing of the fuel valve.

FLAME-PAK (SS 100A): The plug-in electronic amplifier provides immediate response via the flam rectification principle. Sensing is achieved either be (1) a flame rod which creates a DC signal to the FLAME-PAK, or by (2) the P-C II U-V Scanner is which a DC signal is developed by an ultra-viole sensitive tube. In either system if the signal from the flame to the FLAME-PAK is interrupted, the flue valves are de-energized, and an alarm circuit can be energized if required.

FLAME RELAY (ACF): The plug-in relay respond to FLAME-PAK operation energizing the circuit to the fuel valves.

TEST JACK: Provides convenient checking of inpu signal by placing a DC microammeter in series with the flame rod or P-C II Ultra-Violet Scanner.

FLAME ROD OR ULTRA-VIOLET SCANNER (P-C II (either or both can operate in the same PROTECTO FIER system). The P-C II Ultra-Violet Scanner can be used with gas or oil flame. It is compact, containing only an ultra-violet sensing tube for direct 2-wire connection to the PROTECTOFIER.

TRANSFORMER (SS3CP): Provides low voltage to FLAME-PAK circuit and power source for "E" and "UV" terminals.

FLAME RESPONSE LIGHT: Neon indicator built energized with flame present.



FORM 7256

MODELS AVAILABLE

Designation and Function 120V 50-60 Hz Single Burner

FORM DESIGNATION	MANUAL	AUTOMA.	Punge	ON THE PLANT OF THE PARTY OF TH	RECYCLE ON SAME	RESPONDE SON	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7256-AHE	×	_	—.	_	_	_	×
7256-BE	×	×	_	15 sec	_	×	_
7256-BHE	×	×	_	15 sec	_	×	×
7256-BNRE	_	×	_	15 sec	_	-	-
7256-BNRHE	-	×	_	15 sec	_	_	×
7256-BT * NRE	_	×	*×	*×	_	_	_
7256-BT * NRHE	_	×	*×	*×	_	_	×

Above models with "E" suffix are enclosed. Omit "E" suffix for open style.

Models with suffix "T" in Form number are provided with a plug-in "SST" purge timer to provide for fixed pre-purged cycle. Timing ranges available are listed in Table 1 below.

TABLE 1

SST PURGE TIMER				
DESIGNATION	PURGE CYCLE***			
SST-15	15 sec.			
SST-30	30 sec.			
SST-60	60 sec.			
SST-90	90 sec.			

INSTALLATION, OPERATION AND MAINTENANCE SHALL CONFORM WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS, NATIONAL AND LOCAL CODES, AND AUTHORITIES HAVING JURISDICTION. ANY MODIFICATION VOIDS APPROVALS.

TABLE 2

*	PURGE***	IGN TRIAL	
15-5	15	5	
15-10	15	10	
15-15	15	15	
30-5	30	5	
30-10	30	10	
30-15	30	15	
60-5	60	5	
60-10	60	10	
60-15	60	15	
90-5	90	5	
90-10	90	10	
90-15	90	15	

***Purge time shall allow system to have a minimum of four fresh air changes.

^{*}Purge and trial for ignition cycle. Select from timing schedule in Table 2 below.

^{**15} second trial for ignition standard, 5 second and 10 second also available—specify.