

Capacity Range:

150,000 btu/hr (RP-100 series)

400,000 btu/hr (RP-400 series)



Redi-Pak® Patented Premix Burner Control System

A self-contained blower and mixer, with heat modulation and flame controls to light and monitor premix burners.

How It Works

The Selas Redi-Pak is a compact, turnkey operating and control unit for supplying an on-ratio mixture of air and gas to premix burners. This device provides a simple and economical way to add infrared or line burners to ovens or process lines. The unit can be configured to operate either one or two burners with total capacities up to either 150,000 btu/hr (RP-100 series) or 400,000 btu/hr (RP-400 series) while conforming to NFPA codes. Every

Redi-Pak contains the entire air/gas train and flame safety system.

The Redi-Pak safely operates a variety of burner types. It can be started manually or remotely. It has full linear modulation control and immediate modulation response. Operation requires 110/120v inlet at 50/60 Hz. The unit can be set to operate on propane or natural gas but gas inlet pressures must not exceed 14"wc (0.5psi).

Applications:

- Any process requiring on-ratio air/gas mixture for premix burners
- Fully modulating capability for tight process control
- Operates on either natural gas or propane



Diverse Combustion Technologies. One Reliable Source.

Operating Principles

Each Redi-Pak follows a programmed ignition and automatic relighting sequence. There is a 15 second initial air purge followed by a 15 second trial ignition. If flame is not sensed, a 10 second purge and 15 second ignition sequence repeats two additional times.

If flame is not detected after the third trial, the sequence stops and the flame failure LED illuminates. During successful ignition, the flame propagates to the far end of the burner where the flame monitoring electrode is positioned. Once the flame is sensed, a signal is sent back to the Redi-Pak. Spark ignition then ceases, the gas valves remain open and the burner output reverts to the potentiometer dial setting (low - high fire).

The Redi-Pak is a compact unit with exterior dimensions of 12-1/8" wide, 17-1/2" deep and 12-1" high. It has pre-drilled and tapped holes in the housing to allow for bottom, top or left side mounting. The cost is a fraction of that charged for non-packaged components. It is simple to install in new systems and easy to add to existing systems.

Maintenance features include a replaceable internal air filter with easy access door. There is also a gas adjustment easily accessible from the top to adjust the unit for propane or natural gas. The cabinet is not waterproof so it is recommended to use the unit indoors or in a NEMA 4X enclosure. Each Redi-Pak is calibrated prior to shipment. A completed factory pre-set checklist and a full instruction manual is included with each unit.

The Redi-Pak is normally supplied with an air/gas connecting nipple and union, audible alarm, high temperature ignition wire (red), and high temperature monitoring wire (white). When ordered with a Selas burner, the burner will have spark igniter and monitor brackets attached to the near end/side and far end/side of the burner. For two burner operation, Selas will design and build a rigid or flex hose yoke depending on customer requirements. The major components in the Redi-Pak are all UL recognized as well as CE and CSA approved. U.S. Patent #8,105,077.

Features	Benefits
Integrated on-ratio air/gas control system	Simple, economical installation & operation
Full linear modulation capability	Reliable process control
Constant flame supervision with LED indicators	Auto shut-down in the event of loss of flame
Compact self-contained control unit	Easy, flexible top, bottom or side mounting
Remote operation/automation	Reduces on-site personnel monitoring



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