



## Selas LP-86 Burner

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### How It Works

The Selas LP-86 Burner is widely used in tortilla chip ovens and many industrial ovens such as powder coating requiring high heat flux density.

The LP-86 burner is a surface combustion gas-fired infrared burner. The premixed air and gas passes through the burner body and out through the porous emitter surface. Combustion takes place

in a thin layer just above the outer surface.

The emitter is a sintered metal fiber alloy construction. Its many micro pores effectively disperse and entrain the air/gas mixture. Once ignited, robust infrared radiance is dispersed over the emitter's entire surface. This produces fuel savings of 20%+ over knit metal fiber burners.

### Applications:

- Tortilla chip ovens
- Industrial ovens such as powder coating



**Diverse Combustion Technologies. One Reliable Source.**

## Operating Principles

The emitter is flexible by nature but backed by a rigid support. This allows it to resist damage during routine maintenance or by thermal shock after repeated firings. When firing face down on a conveyORIZED product, the emitter remains flat and does not sag, unlike conventional knit metal fiber burners. The high surface area of the sintered FeCrAl alloy fibers produces a very high heat flux density.

The LP-86 burner comes in one size, 5.8" x 7.8" (45.25 sq in). Input capacity is 22,000 btu/hr at 3.5" WC inlet pressure. The radiant output of the burner is approximately 65% IR and 35% convective heat. The emitter temperature reaches 1700°F (927°C) at high fire. The burner is designed to operate best at 19.1% to 19.3% oxygen in the air/gas, feed with natural gas as the fuel source. The turn down ratio (Modulation) is 3:1.

All Selas burners are quick heating and quick cooling to prevent burning of product and waste of gas if there is a line stoppage. Labor and lost productivity costs are also minimized with short heat up and cool down periods. The burner sections can be mounted with the long axis parallel (horizontal) or perpendicular (vertical) to the manifold. This allows the optimal combination of heat flux and length for different applications and line speeds.

Features	Benefits
Flexible sintered metal face with rigid support	Resists damage during maintenance of thermal shock
Short heat up and cool down periods	Fuel efficient, cost effective operation
High radiance at 1700°F at high fire	20%+ fuel savings vs knit metal fiber
Corrosion-resistant, all stainless body	Durable performance in harsh operating conditions
Mounting options above or below the conveyor	Allows optimal heat flux and length combination



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