

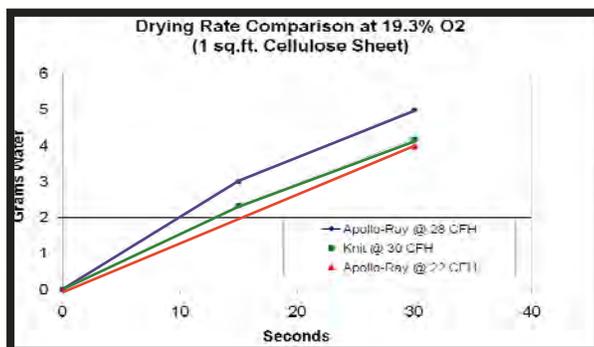
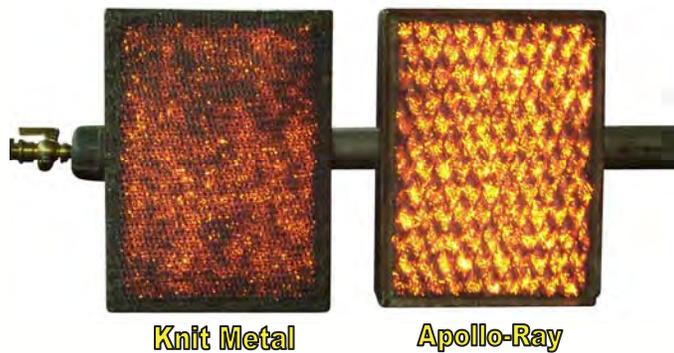
Red-Ray

LEADING THE INDUSTRY WITH GAS-FIRED INFRARED BURNERS

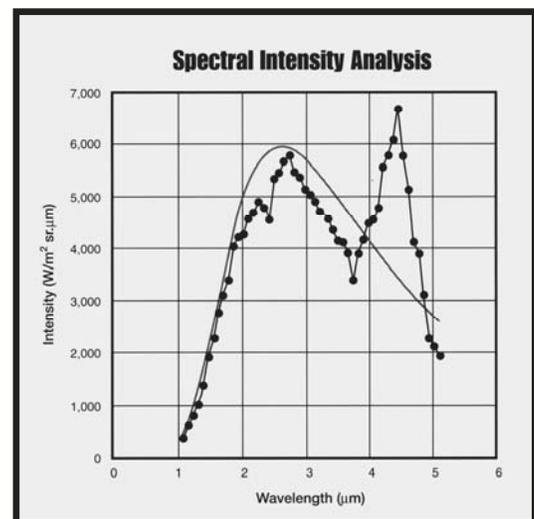
LP-86 Infrared Burner

The Apollo-Ray 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.



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 Apollo-Ray 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.

The Apollo-Ray LP-86 body can withstand continuous operating temperatures of 800°F. The emitter is placed into the body with a tight fitting gasket to minimize any combustion mixture leakage. The frame is securely spot welded to the body. A reinforcing plate is welded inside the body to prevent distortion during operation as well as provide a rigid mounting site. The drawings provide a top and side view of the burner.



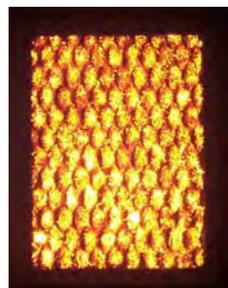
LP - 86 Top View



LP - 86 Back View



LOW FIRED — Acceptable Operating Condition

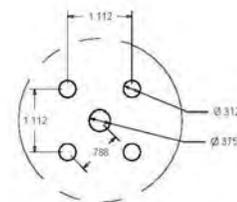
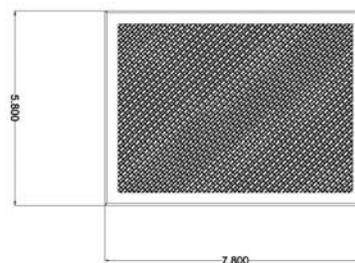


HIGH FIRED — Acceptable Operating Condition



**OVER FIRED — UNACCEPTABLE
Do Not Operate In This Condition**

**LP - 86 BURNER SECTION
GENERAL DIMENSIONS**



All Apollo-Ray 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.

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