

E-Class Infrared Burners

6-inch gas impingement type burners generate intense, concentrated radiation. They are typically used in industrial applications (curing coatings on steel) and food applications (baking).

How It Works

Selas E-Class Infrared burners are impingement type infra-red generators incorporating shaped refractory blocks. Rows of small ports direct flame against the curved block surfaces, heating them to temperatures ranging from 1800° F to 2200°. Infrared

burners produce a high intensity, concentrated radiation. In addition, the curvature of the refractory directs a hot, turbulent stream of exhaust gases toward the product, scrubbing the surface of vapor films and enhancing heat transfer.

Applications:

- Curing coatings on steel
- Baking



Diverse Combustion Technologies. One Reliable Source.

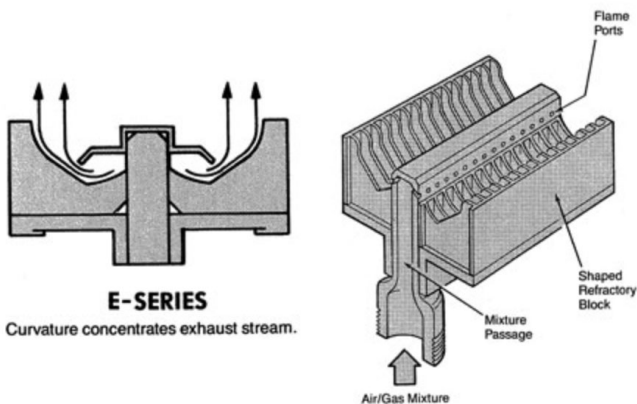
Operating Principles

Selas E-Class 64IR and 67IR burners produce a concentrated stream of exhaust gases. When they are mounted facing down, the exhaust will travel from 10" to 12" before losing momentum and rising. They can be operated with a turndown of 10:1. Radiant output drops in proportion to decreasing gas input. Infrared burners may be ignited by direct spark or by a spark-ignited blast type pilot. Flame monitoring may be by flame rod or U.V.scanner.

Performance

- 67IR – 60,000 Btu/section at 8" w.c. mixture pressure
- 64IR – 30,000 Btu/section at 8" w.c. mixture pressure
- Develops high radiant temperatures to 2200° F
- Strong forward velocity convection heat produced along with high intensity infrared

Features	Benefits
Turndown of 10:1	Excellent thermal process control
Available in single (64IR) or dual (67IR) profiles	Allows wide process flexibility
May be mounted facing up or down	Effective heating regardless of direction
Strong forward velocity heat	Enhances heat transfer
Optimum combination for certain applications	Perfect for steel coatings and baking



Dimensions

Pipe Size	Maximum Number of Sections		Dimensions In Inches		Weight Per Section, Lbs.	
	64 IR	67 IR	A	B	64 IR	67 IR
1-1/2	10	5	7-5/8	15/16	8	12
2	20	12	9	1-3/16	9	12-1/2
2-1/2	22	14	9-5/8	1-7/16	10-1/2	13-1/2
3	40	26	10-3/16	1-3/4	11-1/2	14-1/2
4	82	42	11-3/16	2-1/4	13	16
6	100	90	13-3/8	3-5/16	17	20



11012 Aurora Hudson Rd • Streetsboro, OH 44241
1-800-523-6500 • sales@selas.com
www.selas.com