

## ADVANTAGES

- ▶ Reduced flare visibility
- ▶ Self-supporting stack
- ▶ Alloy steel flare burner
- ▶ Low pressure drop design
- ▶ Custom design to meet any application

## GENERAL DESCRIPTION

The SEF Bio-Gas flare is an elevated flare (also referred to as the "Candlestick" flare) complete with a shroud to reduce flame visibility and improve thermal destruction efficiency.

**FLARE BURNER** — The SEF Burner is constructed from high temperature alloy steel to prevent corrosion or thermal degradation. A proprietary flame retention ring is used to provide the stable combustion required for efficient vapor destruction and a dynamic purge seal is included to reduce the chance of flashback caused by air entry into the flare.

**FLAME SHROUD** — The flame shroud used on the SEF has several purposes. The shroud is designed to prevent down drafts from extinguishing the flame. In addition, the shroud reduces the amount of visible flame seen on the flare and provides a chamber for more complete combustion. The amount of heat radiation produced by the flare is reduced allowing the stack height to decrease.

**FLARE RISER** — The SEF is supplied with a self-supported flare riser, complete with base section, designed to be mounted on a concrete base or attached to a pipe extension.

SEMI ENCLOSED  
CANDLESTICK  
FLARE



SEMI ENCLOSED  
LANDFILL FLARE STATION



# SEMI ENCLOSED CANDLESTICK FLARE

## PRINCIPAL APPLICATIONS

Landfills  
Waste water treatment facilities  
Anaerobic lagoon

## DESIGN FEATURES

Manual or automatic ignition system  
Dynamic purge seal  
Ignition monitoring by UV flame detector or thermocouples

## SPECIFICATIONS

**BURNER MATERIAL:** Stainless Steel  
**SHROUD MATERIAL:** Stainless Steel  
**RISER MATERIAL:** Carbon Steel  
**PROCESS CONNECTION:** ANSI 150 lb. Flange  
**ELECTRICAL:** 110/220 VAC

MODEL	MAX FLOW SCFH (M3/HR)		HEIGHT FT. (M)	DIAMETER IN. (MM)	SHROUD DIA. IN. (MM)
SEF-2	4,000	(113)	10 (3)	2 (51)	8 (203)
SEF-3	9,000	(255)	12 (36)	3 (76)	18 (457)
SEF-4	16,000	(453)	12 (36)	4 (102)	24 (610)
SEF-6	36,000	(1019)	12 (36)	6 (152)	24 (610)
SEF-8	64,000	(1811)	16 (48)	8 (203)	30 (762)
SEF-10	100,000	(2830)	20 (61)	10 (254)	36 (914)
SEF-12	155,000	(4386)	20 (61)	12 (305)	36 (914)

