



FORCED DRAFT FLARE

FOR LANDFILLS, DIGESTERS AND BIOGAS APPLICATIONS

Some applications require a reasonable but effective alternative to a thermal oxidizer or an enclosed ground flare. PCC's Forced Draft Flare incorporates the best features of both to produce a cost-effective, fuel-efficient, combustion-based pollution control device. PCC utilizes our 50 years of experience with combustion related systems to optimize the performance of these units. Our modular design also allows for simple and quick modifications to increase residence time or incorporate heat recovery in the future.

Design Advantages

- Improved management of combustion air for performance benefits
- Significantly less fuel consumption vs. EGFs (*see table below*)
- Lower emissions
- Burner access at grade
- Not draft dependent
- Adaptable to varying operating cases
- Minimum 0.5 seconds residence time
- Operating temperature 1400°F to 1800°F
- 98%+ Destruction Removal Efficiency (DRE)
- Flanged sections can be added to increase residence time
- Greater turndown



Safety Features

- No open dampers at grade that could expose errant fumes and personnel to flame
- Flame detection, block valves, and purge
- Not impacted by wind

Options

- Skid mounting
- Control upgrades
- Heat recovery
- Higher DRE



TYPICAL SIZING DATA								
Larger sizes available upon request								
Waste Flow Rate (scfm)	Total Unit Capacity (MMBtu/hr)	Dimensions, in ft.			Fuel Consumption, @ %CH ₄ , MMBtu/hr			
		"A"	"B"	"C"	3%	5%	8%	12%
500	3	3'-6"	25	8	2.11	1.46	0.47	Pilot only
1000	6	4'-0"	25	10	4.22	2.91	0.94	Pilot only
2000	12	5'-0"	30	13	8.45	5.82	1.88	Pilot only
3000	17.5	5'-6"	35	15	12.7	8.73	2.81	Pilot only

**Note: Above dimensions are based on waste stream composition of 8% CH₄, 98% DRE and other assumptions.*

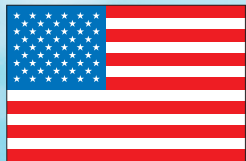
PROCESS COMBUSTION CORPORATION

300 Weyman Road, Suite 400 · Pittsburgh, PA 15236 · (412) 655-0955 · pcc@pcc-group.com · www.pcc-group.com

Oxidizers from people who know and care about providing environmental compliance with reliability



Representatives are located in major US Cities, Canada, Asia, and selected countries, visit www.pcc-group.com to find your local agent.



U.S. HEADQUARTERS

300 Weyman Road, Suite 400, Pittsburgh, PA 15236

Tel: (412) 655-0955; pcc@pcc-group.com



UNITED KINGDOM

Brunel Road, Rabans Lane, Aylesbury Bucks HP19 8TD

Tel: +44 (0) 1296 487171; Fax: +44 (0) 1296 43680



PCC ENVIRONMENTAL EQUIPMENT (BEIJING) CO., LTD.

**E-507, E-508, Fuli Morgan Center, No. 6 Taiping Street,
Xicheng District, Beijing, 100031 China**

Tel: +86 010 83131505; www.pccchina.cn



PROCESS COMBUSTION TECHNOLOGIES INDIA PVT LTD.

**Shiva Pharma Building - 7th Floor, Sarabhai Complex
Wadi Wadi, Vadodara, 390007 India**

Tel: +91 99208 08899; ssundaraju@pcc-group.com