

PYRETRON™



staged
high
radiative
burner
technology

- +50% increased in melting rate
- Decreased total energy cost
- Uniform heating of refractory
- High flame velocities
- Optimized oxygen usage

Applications

- Lead smelters (reverb, rotary)
- Aluminum secondary smelter
 - Well charged, direct fired, rotary
- Copper and brass smelters/holders
 - Anode furnace, reverb furnace
 - Rotary brass, copper shaft
- Ladle pre-heaters

PYRETRON™

Staged High Radiative Burner Technology

The net result of using Pyretron™ is that for every unit of oxygen used, more than one unit of fuel is saved. At current fuel prices relative to oxygen, the result is a significant energy cost savings.

For standard Pyretron™ applications, the fuel is oxidized with both oxygen and air.

The combustion is staged and occurs within three zones:

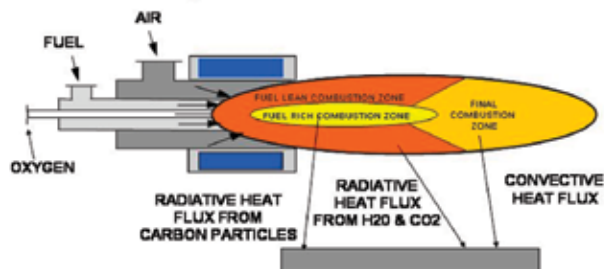
- Primary fuel rich zone: central zone of flame generates carbon particles to provide intense radiative heat transfer
- Secondary fuel lean zone: high velocity peripheral zone with excess oxidizer
- Final zone: combustion is completed in final zone

Brand Name	Part Number	Firing Rate - Range		
		Minimum	Nominal	Maximum
Pyretron I	PT 750	150 KW	750 KW	1000 KW
	PT 2000	400 KW	2000 KW	3000 KW
	PT 4000	600 KW	4000 KW	5000 KW
Pyretron II	PT2 1500	275 KW	1500 KW	2000 KW
	PT2 2500	350 KW	2500 KW	3000 KW
	PT2 5000	800 KW	5000 KW	6000 KW
	NF 1500	300 KW	1500 KW	2000 KW
	NF 2500	450 KW	2500 KW	3000 KW
	NF 5000	900 KW	5000 KW	6000 KW
	NF 8000	1400 KW	8000 KW	9600 KW
	NF 14000	2400 KW	14000 KW	16000 KW

American Combustion (ACI) designed and patented this innovative approach to high temperature combustion technology in industrial furnaces.



Pyretron's™ flame is designed to sustain any variation in oxygen flow. Its oxygen consumption can be set according to process needs.



Pyretron™ Flame Pattern



Contacts

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Founded in 1902 and now present in 72 countries with 40,000 employees, Air Liquide is a world leader in industrial and medical gases and related services. The Group offers innovative solutions based on constantly enhanced technologies to help manufacture many indispensable everyday products and preserve life.

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