



Solutions

FOR YOUR POLLUTION CONTROL NEEDS

PROCESS COMBUSTION CORPORATION

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Our expertise and experience in the Thermal and Biological Oxidation of gaseous and liquid wastes, NOx abatement, VOC destruction, odor control, and acid gas systems is complemented by our knowledge, understanding and practical know-how specific to heat recovery boilers, heat exchangers, wet scrubbers, baghouses and electrostatic precipitators.

PCC integrates systems providing “Solutions” to your most challenging Pollution Control needs.

Since 1969, PCC has designed and provided systems for the chemical, petrochemical, refining, automobile, pharmaceutical, textile, rubber, converting, metals, food, sulfur, carbon, engineered wood products and the pulp/paper industries.



PCC's Quality Management System is certified in conformance with the ISO 9001:2015 standard.



PCCs' adherence to consistent and predictable systems is a cornerstone of our long term track record of success.

The PCC Advantage



Our Design Philosophy is a foundation within PCC's Technical Competencies. Safety is always a key concern, coupled with our conservative equipment design, ensuring performance guarantees and mechanical warranties are consistently achieved. All of PCC's Oxidation Systems are custom-designed in accordance with our expert knowledge and our customer's design specifications.

- ✓ **Engineering/Design**
 - Process Engineering
 - Mechanical Design
 - Refractory Design
 - Electrical Design
- ✓ **PCC's CORE Competencies include:**
 - Project Management
 - Computer Aided Design (3D modeling)
 - System Automation & Control Technology
 - Construction Management
 - System Tuning and Troubleshooting
- ✓ **System Integration**



Our SERVICES flow from our Core Competencies:

- ✓ **Waste Water Incinerators**
- ✓ **Thermal Oxidation of Process Gases**
- ✓ **Biological Oxidation of Process Gases**
- ✓ **Process Air Heaters**
- ✓ **Project Specification Development**
- ✓ **Engineering Studies**
- ✓ **System Modifications and Retrofits**
- ✓ **Field Start Up Training & Troubleshooting**



Aspen and 3D Modeling bring the power of process simulation and optimization to the engineering desktop, and deliver a unique combination of modeling technology, process simulations and overall enhanced process/equipment design.



All projects, large and small, are based on high engineering standards, strict quality control, firm delivery schedules, compliance with stringent environmental regulations and the selection of pre-qualified suppliers and fabricators.

Oxidation Technologies



Broad Experience - PCC designs, manufactures and supplies thermal and biological oxidation technologies for a wide range of pollution control applications. Our designs promote the chemical reaction (thermal/biological oxidation) between the pollutant compound and oxygen (O_2) in air. Our system designs range from highly technical to pre-engineered projects.

NOx Reduction - Our technically advanced Low NOx burners, multi-stage low NOx combustion systems either minimize or totally eliminate NOx emissions. We can meet the most stringent control requirements technically and economically.



PCC Supplies a range of SOLUTIONS to meet your air pollution control needs. Our technical offering includes:

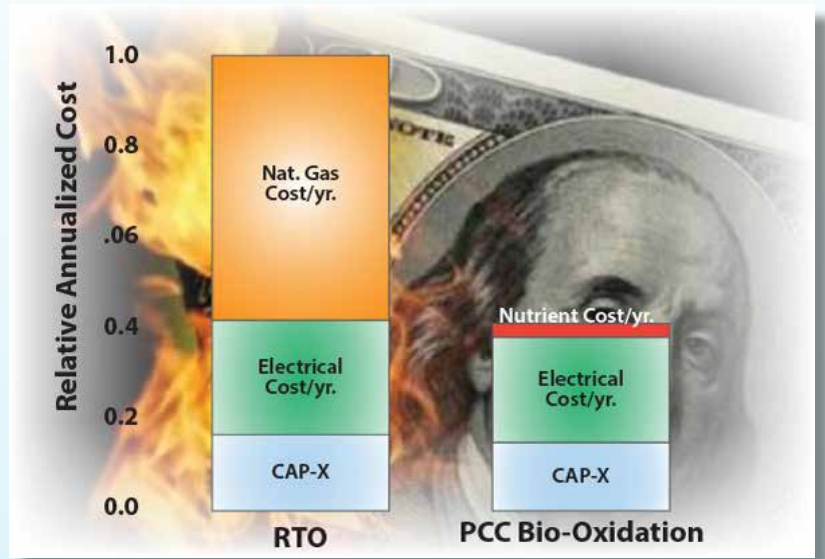
- ✓ Direct fired Thermal Oxidizers
- ✓ Multi-stage Thermal Oxidizers
- ✓ Recuperative Thermal Oxidizers
- ✓ Regenerative Thermal Oxidizers
- ✓ Flameless Thermal Oxidizers
- ✓ Biological Oxidation

All systems are engineered by PCC and are guaranteed to meet the end user's specification and performance requirements.

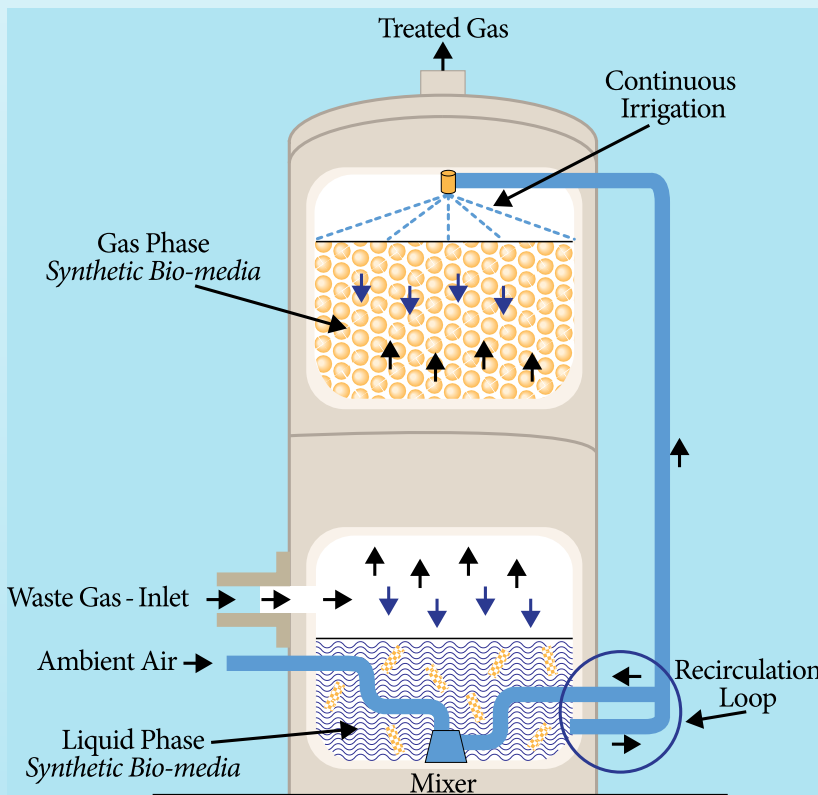


PCC's Dual-BioPhase™ Bio-Oxidation Technology, provides an economical and environmentally friendly method of treatment for a wide range of organic and inorganic air emissions. PCC's Dual-BioPhase™ systems are fully automated and custom-engineered to meet the performance requirements for most odor or VOC applications.

The PCC Dual-BioPhase™ System is engineered to provide an innovative bio-oxidation process that achieves an entirely new level of performance when compared to other biological air treatment systems. Pollutant compounds that dissolve in water are treated in the water phase, while compounds that remain in air are treated in the gas phase. Bio-oxidation generates 20x less CO₂ than thermal oxidation.



The replacement of Regenerative Thermal Oxidizers (RTO's) with PCC's Dual-BioPhase™ Bio-Oxidation Technology is becoming more common. There are numerous applications that lend themselves to the replacement of the RTO with Dual-BioPhase™ technology. A minimum of a 60% operating cost reduction can be realized as well as an 80% - 90% reduction in Green House Gases, along with the elimination of NO_x.



Customer Service



To better serve our global customers, PCC has operations in Beijing, China and London, England. Their mission is to support the Pittsburgh headquarters in the execution of projects in Europe and Asia by developing supply chains, provide Project Management support, start-up services, inspection services, local contract and banking services, assist with Sales and Marketing activities and help our customers communicate effectively with PCC worldwide.

PCC's Aftermarket Team can help provide comprehensive parts and technical service for all makes, brands and configurations of thermal oxidizers and ancillary equipment. We offer spare and replacement parts, a full range of technical services, equipment training, maintenance programs, retrofits, control system upgrades and diagnostic analysis to address your technical service needs. Let PCC assist you in improving the efficiency of your existing equipment.



PCC's staff travels worldwide to support our new existing customers equipment needs. We will work with your plant staff to formulate preventative maintenance plans, establish critical spare parts inventories and provide overall operational support aimed at keeping your systems fully operational.

Spare Parts: Whether you need a spark plug or new transmitter, PCC has the technical experience and staff to meet your needs. We offer comprehensive solutions with emphasis on system control and burner management components.

- ✓ Replacement Instrumentation, Sensors and Probes
- ✓ Mechanical Parts and Components
- ✓ Bio-Oxidizer Mechanical Parts, Controls, Media and Nutrients

Aftermarket Service: When you need a burner tuning or site supervision, PCC has the professional resources to complete the job. We offer innovative solutions and competitive pricing for the following:

- ✓ Erection Supervision & Support
- ✓ Refractory Repairs and Replacement
- ✓ On-site assessment of existing equipment
- ✓ Repair and Maintenance Program
- ✓ Construction and Erection Services



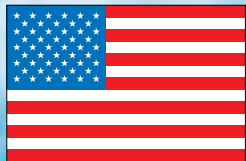
Aftermarket Engineering: Whether you need an on-site audit or technical evaluation, PCC has the professional resources to complete the job. We offer innovative solutions and competitive pricing for capacity upgrades.

- ✓ Additional waste streams
- ✓ Engineering studies
- ✓ Technical field support for installation of systems and components.

CALL US @ 412.655.0955



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

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