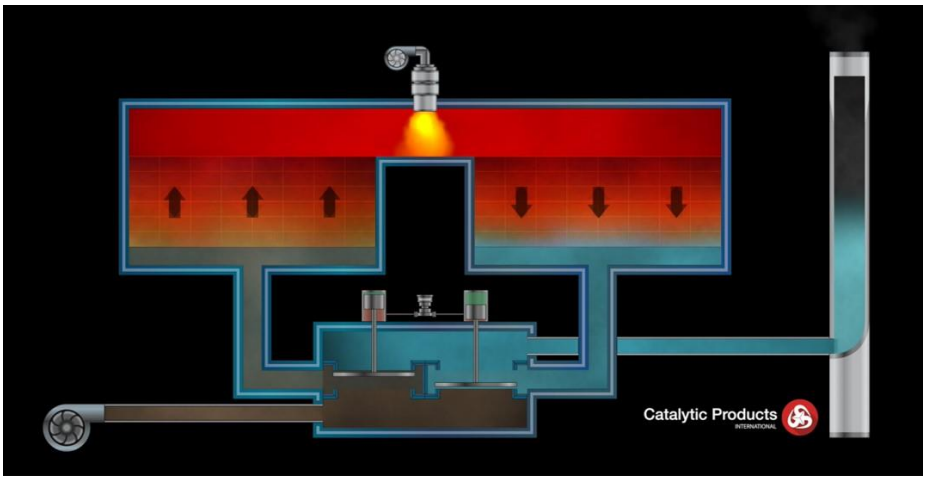
TRITON Regenerative Thermal Oxidizer (RTO)

The TRITON-Series Regenerative Thermal Oxidizer is engineered to meet today's strict VOC, HAP, and odor control standards—even for the lowest emitting processes. It combines industry-leading destruction efficiency, high thermal efficiency, and robust engineering designed to deliver decades of reliable performance.

Thermal treatment of Volatile Organic Compounds (VOCs) and other air pollutants works by a simple oxidation reaction of the harmful air pollutants with oxygen and heat. In this environment, the VOCs are converted to harmless inert byproducts, water vapor (H2O), and usable heat. These harmless by-products are released into atmosphere or use an energy recovery technique to further lower the operational costs.



Regenerative Thermal Oxidation is designed to maximize energy efficiency through heat recovery methods. An RTO oxidizer utilizes the heat generated during the oxidation process to preheat the incoming process streams, reducing the overall energy requirements of industrial processes.

TRITON Regenerative Thermal Oxidizer Models

Catalytic Products INTERNATIONAL

Model	TRITON	TRITON II	TRTON III
Type	**2-Chamber**	**2-Chamber w/ VOC Entrapment**	**3-Chamber**
Destruction Rate of Efficeincey (DRE)	**98%**	**99%**	**99.5%**
Thermal Efficency	**95%**	**95%**	**95%**
Air volume (scfm)	**Model Number**		
2,500 scfm	T 2.5.95	TII 2.5.95	TIII 2.5.95
5,000 scfm	T 5.95	TII 5.95	TIII 5.95
10,000 scfm	T 10.95	TII 10.95	TIII 10.95
15,000 scfm	T 15.95	TII 15.95	TIII 15.95
20,000 scfm	T 20.95	TII 20.95	TIII 20.95
25,000 scfm	T 25.95	TII 25.95	TIII 25.95
30,000 scfm	T 30.95	TII 30.95	TIII 30.95
35,000 scfm	T 35.95	TII 35.95	TIII 35.95
40,000 scfm	T 40.95	TII 40.95	TIII 40.95
45,000 scfm	T 45.95	TII 45.95	TIII 45.95
50,000 scfm	T 50.95	TII 50.95	TIII 50.95
55,000 scfm	T 55.95	TII 55.95	TIII 55.95
60,000 scfm	T 60.95	TII 60.95	TIII 60.95
65,000 scfm	T 65.95	TII 65.95	TIII 65.95
70,000 scfm	T 70.95	TII 70.95	TIII 70.95
75,000 scfm	T 75.95	TII 75.95	TIII 75.95
80,000 scfm	T 80.95	TII 80.95	TIII 80.95

Options
Hot Gas Bypass for high VOC conditions
Thermal efficiency increase to 97% for low VOC conditions
Natural Gas Injection (NGI) for reduced supplemental fuel usage and NOx emissions.
Induced Draft Fan Configuration
Corrosion Resistant Materials of Construction (MOC)
Secondary Heat Recovery
Low NOx Burner for reduced emissions
Tandem RTO configurations for high air volumes >80,000 scfm

For more details, visit www.cpilink.com/regenerative-thermal-oxidizer

980 Ensell Rd. | Lake Zurich, IL 60047 | www.cpilink.com | info@cpilink.com | Phone: 1.847.438.0334 | Fax: 1.847.438.0944