COSTLY MISTAKES TO AVOID
With Regenerative Thermal Oxidizers

With over 250 cumulative years of experience applying Air Abatement equipment to a variety of applications, Pro-Environmental Inc. has seen the potential pitfalls when designing these systems. The following is a list of common and costly mistakes made regarding this equipment:

- Inappropriate materials of construction, resulting in corrosion and potential replacement of the equipment shell.
- Inaccurate or incomplete characterization of the process stream which is the basis of design for the abatement equipment. This is especially important with regards to chemical contamination such as chlorinated or fluorinated compounds.
- Selecting the wrong heat recovery media type resulting in system fouling.
- Insufficient heat exchanger efficiency, resulting in increased operation costs.
- Poor maintenance on upstream particulate removal equipment, or lack of particulate removal equipment in the process stream, resulting in early replacement of RTO heat exchanger media.
- Compliance testing done at levels higher than permitted/required.
- Failure to install Oxidizer resulting in a Consent Decree and/or fines.
- Sizing system heat recovery for the peak conditions rather than for normal conditions.
- Failing to design adequate equipment capacity and finding out at start-up your actual air flow is higher than the design flow.

Pro-Environmental Inc.
(909) 989-3010

Pro-Environmental, Inc.
Thermal and Catalytic Oxidizers for VOC/HAPS Control

Standard Features:
- 98% - 99% DRE with 95% Heat Recovery
- Low Operating Costs
- Process Fan Motor with Variable Frequency Drive
- PLC (Allen Bradley SLC-5/03) Controls with Touch-screen Display
- Start-up Service
- Modem for Remote Troubleshooting

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Did you know that
... almost all production equipment generates 10% to 50% of unnecessary exhaust?
... unnecessary exhaust from your process costs you $10 to $20 per SCFM in equipment and operating costs?
... we can achieve heat recovery efficiencies 98% up to 99%?
... the addition of secondary heat recovery, such as a waste heat boiler, can turn a dead cost into a return on investment for a thermal or catalytic oxidizer?
... oxidizers can be fitted to operate boilers, chillers, process make-up air, air-to-liquid heat recovery, and plant make-up-air?
... addition of pollution control equipment can provide you with much greater production flexibility?
... greater production flexibility can give you an advantage over competitors who must restrict production in order to avoid buying pollution control equipment?
... addition of pollution control equipment creates a positive impression both locally and nationally?

PEI Equipment and Services
- Regenerative Thermal Oxidizers (RTO)
- Regenerative Catalytic Oxidizers (RCO)
- Thermal Catalytic Oxidizers (TCO)
- Recuperative Thermal and Catalytic Oxidizers
- Secondary Heat Recovery
- Direct Fired Thermal Oxidizers (DFTO)
- Concentrators
- Capture Systems
- Process Equipment Modifications
- Parts and Service
- Rebuilds and Retrofits
- Engineering Feasibility Studies
- Turnkey Services
- Troubleshoot

We can’t make it go away, but we can reduce the pain of buying pollution control equipment.