



*Cleaning Tomorrow's Air Today*

## **Proven Experience**

*Cycle Therm currently holds seven RTO-related patents, which have been used worldwide for hundreds of applications. These patents and the core of our experience are in the design of superior electromechanical valve drive systems for both two-chamber and large multi-chamber RTO designs. Our current RTO is the culmination of 30 years of experience and discovery in RTO technology. It embodies our operating philosophy to maintain simplicity in the design and reliability in the performance.*

*Richard Greco, President*



## **Cycle Therm RTO — A Cut Above the Rest**

Cycle Therm designs, manufactures and installs regenerative thermal oxidizers (RTOs) for the destruction of VOCs, HAPs and odorous emissions. Our RTO is the genesis of over 30 years of development and has emerged as the most economical and efficient system available with its unique, patented technologies.

## **The Cycle Therm Difference**

Compare the CT RTO with any others and you'll find these distinct advantages:

### **Patented Electromechanical Valve Drive System**

Unlike other RTOs which feature problematic pneumatic or hydraulic valve systems, the Cycle Therm RTO features a simple electromechanical valve drive system, providing years of trouble-free continuous service.

This patented all-electric system operates the RTO's flow control dampers smoothly in both two-chamber and larger multi-chamber designs. Since the drive and valves are mechanically linked, the valve mechanism maintains a high degree of repeatability over the life of the RTO, even in extreme sub-zero conditions.

*The CT valve drive is the most trouble-free and the lowest maintenance valve drive system available today.*



*Cycle Therm's patented electromechanical drive system provides the highest up-time percentage for RTOs.*

*Visit our Web site, at [www.cycletherm.com](http://www.cycletherm.com), for more in-depth information on these low maintenance, extreme-weather drives.*

### **Integrated Manifolding**

CT's RTO assembly incorporates the inlet and exhaust manifolds into the RTO's overall shell configuration, eliminating the typical network of bulky, space-consuming external manifolds, insulation and jacketing. This enables the system to sit flat on a concrete pad without the need for legs.

*The streamlined assembly design decreases maintenance costs and creates a compact footprint that is cost effective to both manufacture and install.*



*The Cell Stone® Ultra ceramic heat recovery media, produced exclusively for Cycle Therm's RTOs, provides years of service and less wear-and-tear on the valve system.*



## **Industries Served**

*Adhesive Coating*

*Aerospace Painting*

*Air Strippers*

*Automotive*

*Bakeries — Food Processing*

*Chemical Processing*

*Fiberglass/Composites*

*Flexographic Printing*

*Flexible Packing*

*Graphic Arts*

*Laminating/Treating*

*Metal Decorating (Coating)*

*Microelectronics*

*Paint Finishing*

*Plastics/Expanded Foam*

*Pharmaceuticals*

*Pulp and Paper Processing*

*Rotogravure Printing*

*Spray Coating*

*Soil Remediation*

*Tape Coating*

## **Exclusive Ceramic Heat Recovery Media — Cell Stone® Ultra**

The Cell Stone® Ultra ceramic heat recovery media is an exclusive, patented ultra low pressure drop media, specifically designed for use in CT's RTOs. Cell Stone® Ultra's unique properties provide these important benefits:

*Ultra low pressure drop* — cuts fan horsepower by at least 33%, saving electricity

*High heat exchange* — lowers fuel consumption and reduces CO<sub>2</sub> emissions

*Less valve cycling* — provides for higher contaminant removal efficiencies

For more information on the Cell Stone® Ultra ceramic media, visit Cell Stone®'s Web site at [www.cell-stone.com](http://www.cell-stone.com).

## **Fewer CO<sub>2</sub> Emissions, Reducing Your Carbon Footprint**

The Cell Stone® Ultra heat recovery media's combination of high heat recovery with low pressure drop results in significantly lower gas and electric usage, as well as higher VOC destruction efficiency, making it one of the most environmentally responsible pollution control units available today.



*Smaller RTOs can often be entirely assembled, wired and tested in the fabrication facility, eliminating the need for additional site contractors and allowing for comprehensive factory testing and single-source responsibility.*

## Worldwide Solutions — Turnkey Responsibility



At Cycle Therm, we have 30 years experience installing turnkey RTO systems throughout the U.S. and Europe. We take complete responsibility for the accuracy of (1) mechanical and electrical installation, (2) process ductwork design, installation and insulation, (3) concrete pad, (4) startup and (5) long-term support and technical assistance.



FEATURES	BENEFITS
Guaranteed 99% VOC destruction efficiency	Global emission regulatory compliance — now and in the future
Up to 95% heat transfer efficiency	Lowest operating cost and lower CO <sub>2</sub> emissions
Patented electromechanical variable valve drive — no pneumatics or hydraulics and none of their related problems	Greatest reliability, lowest maintenance cost of any RTO
Completely modular	Quick, 3-day installation
Exclusive, light weight Cell Stone® Ultra heat recovery media	Lowest pressure drop, highest thermal efficiency
State-of-the-art controls	Operator friendly
Seven (7) industry patents	Leader in pollution equipment technology



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**Call 570-839-8836 today!**

[www.cycletherm.com](http://www.cycletherm.com)