

RHZ Environmental Controls

Where Innovation
Exceeds Expectations

Oxidizer Specialists

RHZ ENVIRONMENTAL
CONTROLS L.L.C.

www.RHZenvironmental.com

We are RHZ Environmental Controls

We can help you operate your pollution abatement equipment in ways that will save you money while improving your operational efficiency.

RHZ was founded in 2006 by Russ Friend, who previously spent seven years working as a site supervisor and field engineer for a well-known firm in the industry. We specialize in assisting industry in the intelligent control and optimization of widely-used pollution abatement systems. Russ has built a company with a well-founded reputation for an extraordinary ability to coax higher efficiencies and shorter down-times out of well-used equipment.

Personally, Russ is an experienced programmer of VFDs, burners, and analog controls and has a tremendous record of providing enhanced solutions to customers, utilizing standard equipment. RHZ Environmental Controls has a growing list of valued customers who find our services to be a responsive and reliable resource, especially when production schedules are at their tightest and extended down-times can be least tolerated.

ABOUT US

- Experienced
- Innovative
- Reliable
- Responsive
- A Cost-Saving Solution

OUR SERVICES

- **ProjectLean** — Efficient equipment saves money. Project Lean is a set of programs that can be individualized to the customer with the goal of creating the leanest systems possible. The recent rise in utilities has made this more than just good policy. IT IS POSSIBLE TO REDUCE FAN SPEED WHILE ADDING SOURCES. That is what we call, "Bottom Line Boosting."
- **Inspections** — RHZ provides both online and offline inspections. We work to ensure the proper operation of the equipment, and to identify any maintenance issues that could potentially lead to down-time in the future.
- **Bake-outs/Wash-downs** — We'll help you with your system bake-outs and wash-downs. By cleaning the ceramic media in your systems, thereby reducing gas consumption, fan speed, and improving source static pressure, we help you improve system efficiency.
- **Air Flow Monitoring** — We can collect detailed readings on air flows at various points across your system, determining static and differential pressures, and identifying any problem areas. We then use the data to identify any previously unknown problems, such as plugging or turbulence, thus allowing these costly problems to be resolved. We can also set up and balance source air flows, thus ensuring that your plant is running as efficiently as possible.
- **Maintenance contracts** — Once we've assisted you in properly configuring and optimizing your pollution abatement equipment, we can then provide the peace-of-mind that comes with a weekly, monthly, or quarterly maintenance contract, thus ensuring that your equipment remains in ideal operating shape and configuration. Let us eliminate the hidden waste that is affecting your bottom line.
- **Consulting work** — We provide the following special consulting services for customers who need customized work:
- **Utility Cost Analysis** — We specialize in helping our clients minimize utility costs while optimizing the operation of their pollution abatement systems. We saved one client close to 1 million dollars a year in utility costs alone.
- **Control Improvements** — We can tailor your equipment to satisfy your needs while reducing your costs.
- **Specialized software applications** — Customized applications to accomplish particular goals, such as:
 - **Minimizing Downtime** — Software to quickly and safely bring equipment back online.. When 1 minute of lost production can cost \$500, or more, getting the unit back online safely as fast as possible is critical.
 - **Minimizing Utility Costs** — Project Lean is our umbrella program. We offer a variety of programs that we have custom developed specifically for application in pollution abatement situations. These have proven highly successful in controlling utility consumption. They have already saved clients over a million dollars a year in utility consumption. How much can we save you?
- **EPA Recommended Monitoring** — Software that can be set up to function as a combustion chamber temperature monitoring system, in compliance with regulatory recommendations. For over six years RHZ has been at the forefront of low level combustion chamber temperature monitoring. No special programming is required. All the code is contained on the RTO's processor.
- **Alarm Notification / Alarm Criteria Customization** — We can help modify or update your alarm notifications, thus helping you keep abreast of the condition of your units. Again, this will help you to avoid down-time caused by unforeseen problems.



BAKE-OUT SERVICES

Standard Bake-out Service – A controlled heating of specific sections of the Regenerative Thermal Oxidizer (RTO). The purpose of this is to destroy any built-up organics in the system. Primarily this build-up occurs on the cold-face and lower sections of the RTO block.

Automated Bake-out –

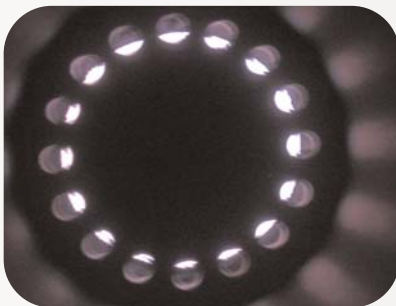
The other alternative to a standard bake-out is an Automated Bake-out. If you choose the ABO option, RHZ will program a safe and efficient bake-out that runs automatically. Program logic runs the operation while at the same time monitoring critical system parameters, such as the cold-face temperature. The application can also control valve movements should the cold face temperature rise to an unacceptable level. Automated Bake-out can even be designed for use during production.

This fully automated operation helps preserve the condition of the hardware while simultaneously maximizing the efficiency of the bake-out.



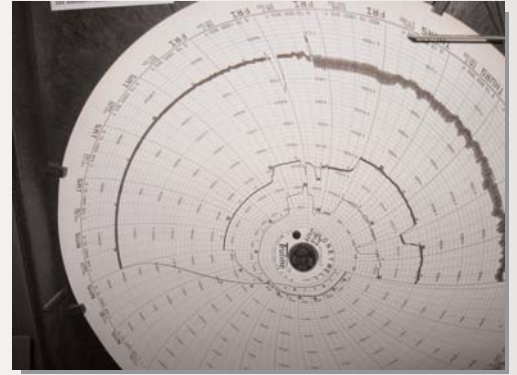
ACD SERVICES

ACD is RHZ Environmental's Accelerated Cool-Down application. This option safely and rapidly cools down an RTO, whether it's needed for maintenance, or because a rapid power-down be required. In both situations, ACD provides a valuable improvement over typical cool-downs...less time spent waiting for maintenance and access areas to reach safe temperatures. Our process for automatic accelerated cool-downs allows a plant to take advantage of two-day weekends when work is required on an RTO system; work that would normally be performed over three or four-day holidays... the time when staff costs are the highest.



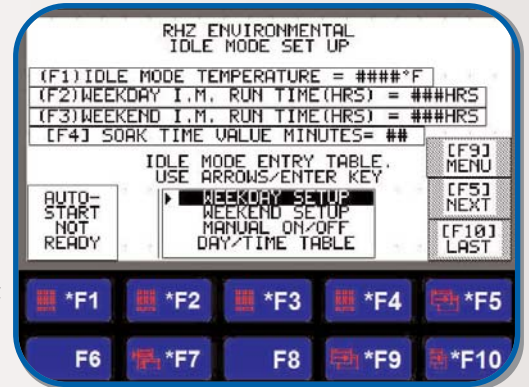
MANAGED IDLE MODE

RHZ specializes in managing the idle mode of your pollution abatement equipment. The **Managed Idle Mode (MIM)**, is a configurable and fully automated way to reduce utility consumption. During MIM operation, the unit automatically goes into idle mode at user-defined times...with manual overrides readily available any time you wish to operate outside of your pre-defined schedule. It allows the plant to focus on more important issues, while leaving redundancies to the technologies that can handle them best.



ULIM CONFIGURATION AND SERVICE

As an exclusive service of RHZ Environmental Services, we offer you the option to have your pollution abatement system configured to include an **Ultra-Low Idle Mode (ULIM)**. ULIM operation is an innovative way of using technology to dramatically minimize utility consumption during extended shut-downs while, most critically, maintaining system operation during non-production periods. This insures that production can be restarted quickly during those times when fully shutting down your equipment is not a practical option. Since maintaining operation during non-production periods can waste utilities, ULIM marries the best of both options: maintaining operation but at the bare minimum level required to keep the system up, therefore garnering huge savings over a standard idle mode. It ensures that the system remains operational, and like MIM is automated to go online when needed.



AIR FLOW ANALYSIS

Since air flow is critical to your bottom line as well as to help ensure a safe production environment, it is a fundamental service we provide. Using NIST-certified equipment, we measure accurate air flow volumes at the RTO and the sources. We can help pinpoint air flow anomalies and verify that you have proper ventilation from the booths to the RTO - 'From Source to Stack.'

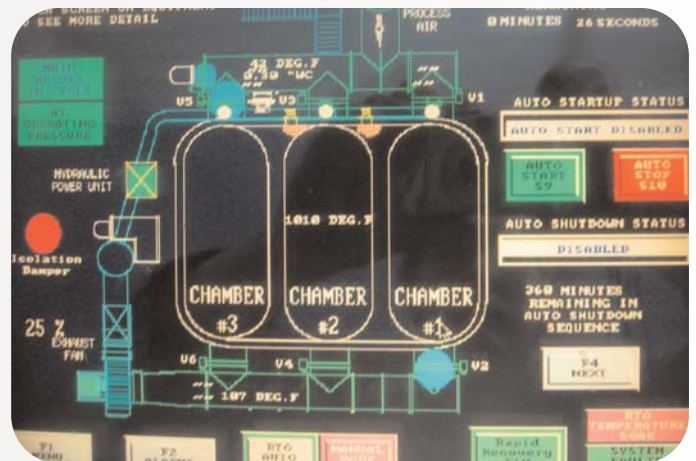


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Our Areas of Expertise

RHZ Environmental Controls provides industry-leading, highly competitive and cost-effective tools to customers who need their pollution abatement equipment to operate effectively and trouble-free. Your business counts on those systems operating correctly. Count on us to ensure that they do.

- PLC programming
- Utility Analysis/Conservation
- HMI configuration
- System operation
- Specializing in Allen-Bradley PLCs, SLCs, and HMI's, (including the interfaces and operating systems that facilitate the automating equipment)
- Plumbing and Valves
- Electrical, Pneumatic and Hydraulic equipment
- Test preparation inspection (for EPA testing)
- Wash-downs
- Maxon burners (Kinemax, Eclipse)
- North American burners
- VFDs:
Siemens/Robicon, Allen-Bradley, Yaskawa
- Utility usage optimization
- Hart/Field Bus-compatible device programming



We are locally owned and operated. Give us a call any time you have questions on how to improve the efficiency and cost-effectiveness of your expensive pollution abatement systems.

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