The *Ecopure*® RL Abatement System

State of the Art Regenerative Thermal Oxidizer Technology
99% VOC Removal is Standard

The Ecopure® RL provides the highest standard VOC removal of any RTO on the market - 99%+. All RTOs use a combination of time, high temperature, and turbulence to destroy pollutants. Only the RL does so with a minimum of moving parts.

Reliability Through Simplicity

The heart of the Ecopure® RL is its simplicity. A single outlet diverter valve replaces all butterfly or poppet valves on a conventional RTO.

This heavy-duty valve features machined, metal seats with a unique air seal, whose close tolerance provides 99% destruction of your VOCs and HAPs. This ensures compliance for your facility now and in the future.
Cost Effective Design

Advantages That Set the Ecopure® RL Apart

- Standard 99% Destruction Efficiency—Guaranteed
- Up to 95% Thermal Energy Recovery (TER)
- Low Pressure Drop
- Particulate and Condensible Tolerant

Durable, Low-Maintenance Design

- Skid Mounted Design (Pre-Piped, Pre-Wired) makes for More Cost Effective Install
- All Drive Components External to Unit
- All Fuel Train Components Located at Grade
- Replaces Multiple Dampers Used on Standard RTO
- Fewer Moving Parts, Greater Reliability

Conventional RTO vs. Ecopure® RL

- Many Valves, Many Actuators
- Typical 3-Chamber RTO has 9 Valves
- Valve Sealing & Chamber Flushing are Options
- One Valve, One Electric Drive
- Minimized Leak Paths
- Valve Sealing & Chamber Flushing are Standard

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The Compact and Versatile Ecopure® RL
Wide Variety of Applications

38,000 SCFM Ecopure® RL for a Metal Can Coating Plant in Florida

15,000 SCFM Ecopure® RL for a Wood Products Manufacturer in Pennsylvania

150,000 SCFM Abatement System with Ecopure® RL30 for a Chemical Products and Process Plant in Virginia

10,000 SCFM Ecopure® RL for an Auto Parts Manufacturer in Michigan
**The Ecopure® RL Electric Drive**

**Better Reliability, Lower Costs, Less Maintenance**

The Ecopure® RL configured with the electric drive system replaces the hydraulic and pneumatic drives commonly found on typical RTOs. This provides for minimal pressure fluctuations on process exhaust.

**Minimal Impact on your Process**

- Quiet, Smooth Operation
- Easier to Maintain
- Longer Overall Rated Life
- Fewer Purchased Components with Greater Reliability
- Extreme Temperature Rated to -40°F
- Facilitates Upgrade to On-Line Bake Out Control

![Ecopure® RL Fitted with the Electric Drive System](image)

**Full Volume On-Line Bake-Out**

**Bake-out Your RTO with No Production Lost**

The Ecopure® RL is capable of removing collected organic particulate, aerosols and condensables without process interruption and without additional energy consumption as compared to other bake-outs. The RL can be baked out or cleaned of accumulations while continuing to operate at full process volume. The bakeout feature functions in same fashion as a self-cleaning oven, in that the temperature of each bed is raised to approximately 800°F to remove or bake off any organic deposits. The duration of the bake out will vary by application but is expected to last from 6 to 8 hours.

![Flow Schematic of the Patented Dürr On-Line Bake-Out](image)
**Industrial Applications**

**Ecopure® RL’s Diversity in Industry**

Dürr EES is your source for proven cost effective air emissions compliance solutions, with over 35 years experience and over 3000 pollution control systems operating in a broad range of industries.

The RL is available in pre-engineered sizes up to 100,000 SCFM+ per unit. The equipment is highly versatile and applicable in most industries and processes.

**A Wide Range of Processes**

Ecopure® RL systems are used in a broad range of industrial applications:

- Automotive
- Coil Coating
- Wood Products
- Food Processing
- Chemical Processing
- Composites
- Semiconductor Manufacturing
- Metal Decorating
- Odor Control Applications
- Pharmaceutical Manufacturing
- Printing and Converting
- Ethanol Manufacturing
- Spray Painting
- Vinyl Floor Manufacturing
- Open Mold Fiberglass Manufacturing
- Cement Production
AfterMarket Services

Service and Solutions

For any RTO, Dürr offers comprehensive aftermarket services designed to deliver individual facility solutions. We’ve created a tiered service structure that will appeal to any caller. From routine maintenance to extensive system improvements, Dürr’s After Market Services provides service support for any type of abatement equipment, including competitor installations.

- Spare Parts
- Conversions, Retrofits, and Rebuilds
- Inspections, Maintenance and Emergency Services

On-Site Programs

Dürr offers Energy Performance Contracts to pay for abatement system retrofit or replacement from metered utility savings. Energy Performance Contracts are a vehicle to fund equipment upgrades even if no capital budget is available. Let Dürr’s air pollution control experts evaluate your abatement system for efficiency improvements.

Service contracts are ideal for customers interested in preventive and emergency services to keep your abatement system online and running efficiently. Extended service contracts provide scheduled preventive maintenance and inspections and, in emergencies, guarantee response time 24 hours a day / 7 days a week. Dürr customizes every service contract to fit our customers’ needs and budget, offering a wide range of services.
Full Service Abatement Solutions

Dürr Systems - Environmental and Energy Systems
The Leading Pollution Control Manufacturer to the
Global Community

As an independent business unit of Dürr Systems,
Environmental and Energy Systems is an innovative
manufacturer of over 3000 systems for air purification
worldwide. For more than 35 years, Dürr’s
environmental technologies have provided clean air
and reduced emissions for a wide variety of industry.

Dürr Systems, Inc. - EES
40600 Plymouth Road
Plymouth, MI 48170

Tel. (734) 459-6800
Fax (734) 459-5837

Email: EESsales@durrusa.com

www.durr.com

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