

**RLA G4**

# Reburned Lime Analyzer



**Rapid & Reliable: Residual Carbonate  
Analysis for Lime Kiln Tuning**

0%



**econotech**

*laboratory services*

## simple.

Econotech's quick and simple two-minute residual carbonate analyzer makes collecting control data for lime kiln tuning routine for operators. The user-friendly and safe design reduces training overhead.

## consistent.

Econotech's Reburned Lime Analyzer (RLA) is easy to operate and uses a large 2 gram representative sample. This combination promotes consistent and reliable data for kiln control.

## tough.

RLA G4 incorporates corrosion resistant components that can withstand heavy use in harsh mill environments. RLA was designed with low maintenance in mind.

## cost effective.

RLA's low cost of entry, coupled with the energy savings and recaust/kraft process benefits of kiln tuning, make the investment easy to justify.

## AT THE MILL, EVERY PENNY COUNTS

In a highly competitive global market where energy and chemical costs are at a premium, you scrutinize every aspect of your operations to reduce costs and gain a competitive edge. The lime kiln is one of those areas. Overburning deactivates lime and wastes energy, while underburning elevates deadload and reduces recaust efficiency, again resulting in wasted energy. Stable production of high quality lime is key.

# How Well Is Your Lime Kiln Performing?

To understand how well your lime kiln is working, you need to have a measure of product quality. Residual carbonate in reburned lime is a primary indicator that can help operators tune their kilns to avoid under- or overburning. Econotech's RLA enables operators to regularly test and monitor residual carbonate throughout the day, supporting a stable and efficient kiln operation.

Using the reliable RLA data as a critical kiln control parameter, mills have realized significant benefits:

- Reduced energy/fuel costs
- Less overburning and underburning
- Stronger, more stable recausticizing operation
- Increased causticizing efficiency
- Improved white liquor quality



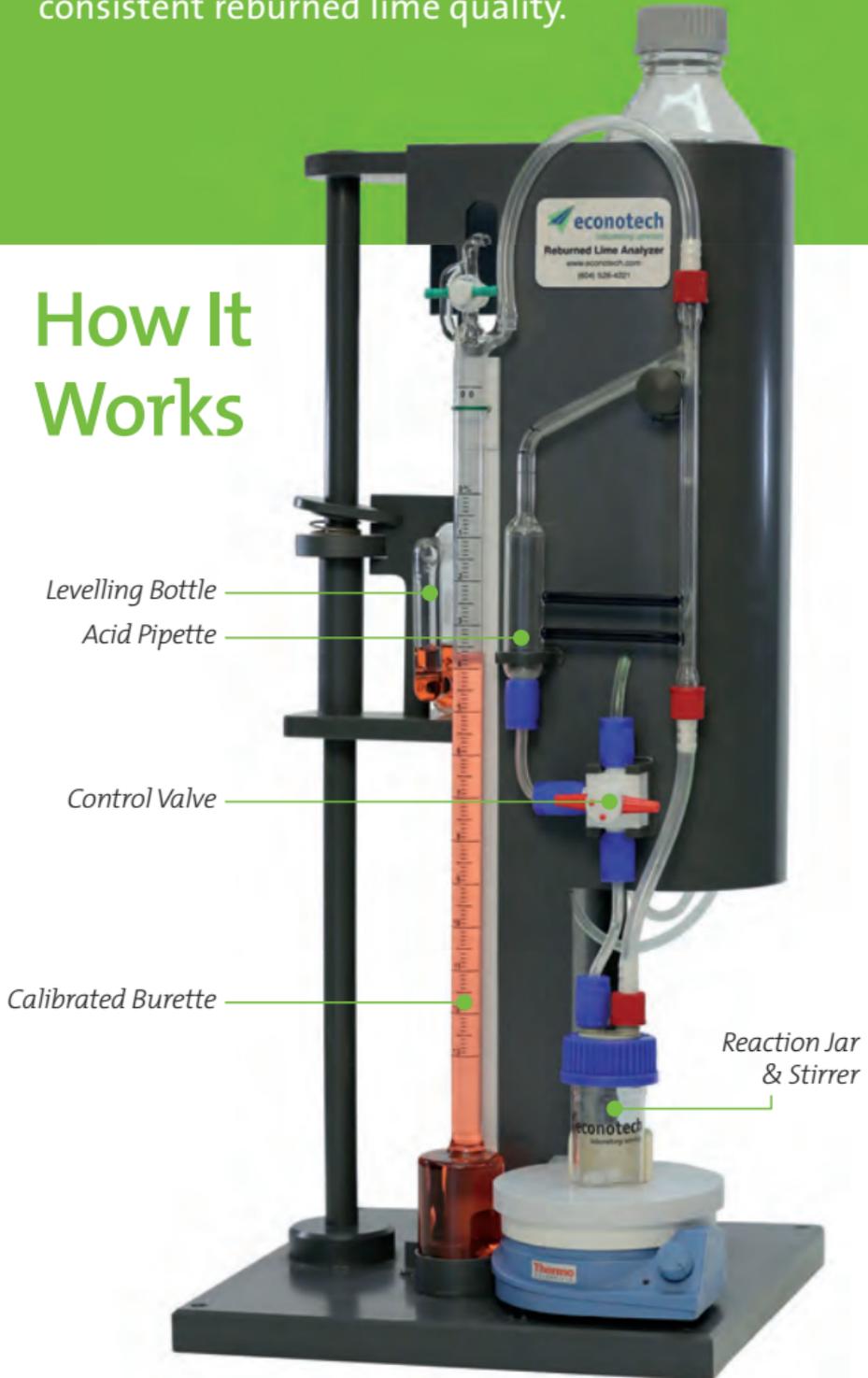
### Large Sample. Better Results.

Our RLA tests 2.00 g of lime, making it easier to obtain a representative sample. Large samples also make the results less sensitive to weighing error and produce more CO<sub>2</sub> for better measurement accuracy.

## SIMPLE OPERATION. USEFUL RESULTS.

Years ago, Econotech developed a simple residual calcium carbonate analyzer providing operators with direct measurements. Since the first generation of Econotech's RLA was conceived, mills have been using it to routinely monitor and help achieve consistent reburned lime quality.

## How It Works



- 1 A representative 2.00 g lime sample is added to the reaction jar.
- 2 Acid is measured by auto-pipette, then the system is zeroed with the levelling bottle and sealed.
- 3 Acid is added and reacts with the sample to produce carbon dioxide gas.
- 4 The gas displaces the indicator liquid where percent calcium carbonate is read directly off the calibrated burette after 60 seconds.

## EXPERIENCE MATTERS

Over time, valuable customer feedback and field experience gave us insights to enhance the RLA. Today, Econotech's Reburned Lime Analyzer is more reliable, robust and safer to use, while still being simple to assemble and operate.



## RLA G4: Enhanced Design

Econotech's RLA was redesigned after extensive customer consultations. The result: a practical new design, improving on accuracy and robustness.

**Improved Accuracy** – Percent calcium carbonate is read directly from the RLA's calibrated burette, which incorporates a validated offset to account for gas expansion due to heating. Consistently adding the same amount of acid is easier with an innovative design including a simplified auto-pipette and control valve system.

**Corrosion Resistant** – Almost all metal has been eliminated from the updated design. Glass and polymer components also provide excellent corrosion resistance. Its durability gives way to a longer service life and lower maintenance in harsh mill environments.

**Easy to Use** – Fewer critical testing steps mean easier operator training to achieve consistent results. The levelling bottle is attached to the stand and can be adjusted and locked into place/unlocked with one hand. Durable screw-in reaction jars make it much easier to secure and properly seal, reducing errors and jar breakages.

**Safer** – Acid bottles are now completely secure with no loose tubing to catch on. Acid is also contained during the reaction, eliminating any concern of spillage.

**Compact** – RLA's smaller footprint only requires about one square foot of bench space.



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## Econotech... we are the laboratory for pulp and paper.

Econotech Services Ltd. is a specialized pulp and paper laboratory operating since 1972, and has grown to be one of the largest independent pulp and paper testing laboratories in the world.

Within its Vancouver, BC facility, Econotech can perform a full range of analytical tests from specialized chemical analysis of pulp (woods and non-woods), pulping liquors and other process chemicals (smelt, ash, condensates, lime), to physical and optical testing of pulp or paper, species analysis, contamination identification (scale and plastics), as well as confidential pulping and bleaching studies.

Accurate, rapid and reliable results coupled with the recognized knowledge of our staff have been key to our company's success.



### Did You Know?

Econotech now offers standardized 2 gram lime samples. An easy way to confirm that your RLA is giving you correct results.

**Learn more about our Reburned Lime Analyzer:**

**Visit** [econotech.com](http://econotech.com)

**Email** [info@econotech.com](mailto:info@econotech.com)

**Call** (604) 526 4221 or 1 800 463 5700

**Econotech Services Ltd.**

852 Derwent Way

Delta, BC, V3M 5R1

CANADA