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What's happening at Kemco?

Stack Economizer Case Study

Meet Kemco

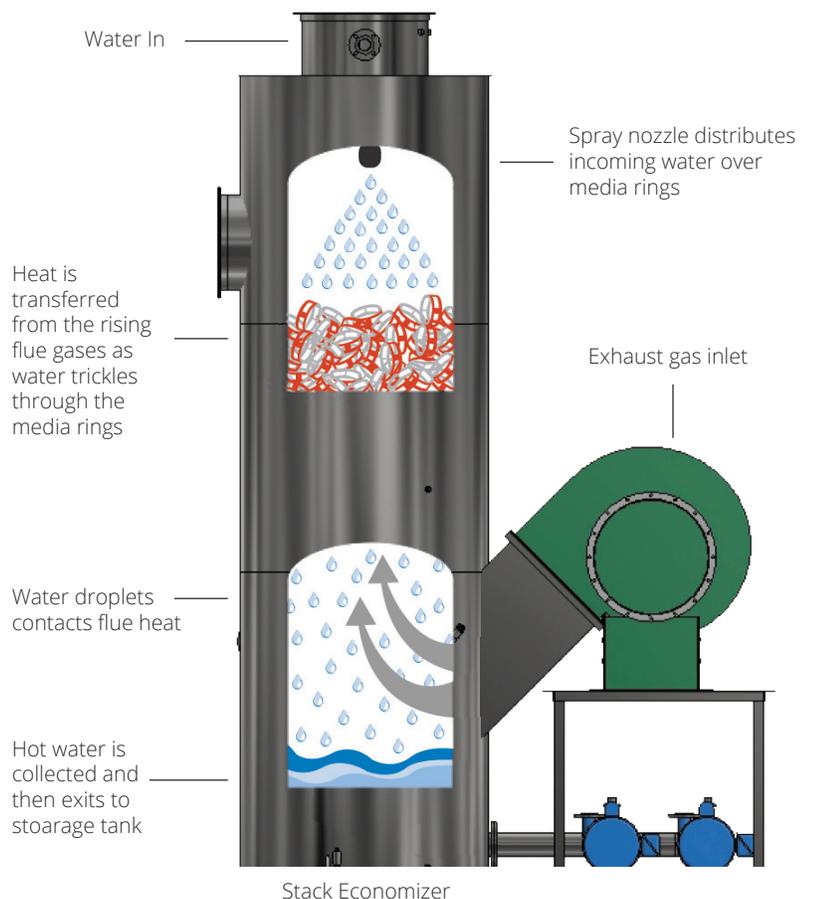
Next Level Efficiency

Take your plant to the next level

Many companies with highly efficient core equipment, such as tunnel washers in the laundry industry, look for additional ways of saving energy. One well-established method is heat recovery from the plant process. Gas heat reclaimers have been used in industrial plants for decades preheating water for plant operations. It was not uncommon for old technology, with limited heat recovery capacity, to develop mechanical and corrosion problems. Over the years these weaknesses have been virtually eliminated. Today's modern stack economizer has improved significantly in terms of efficiency and application and for over 50 years, Kemco has been at the forefront of this technological development.

The most efficient system in the market for flue gas heat recovery is the direct contact stack economizer. The stack economizer takes energy that would normally be sent out the exhaust stack and uses it to heat incoming water for process. By recovering this waste heat, a stack economizer can reduce fuel requirements resulting in high long-term savings and a fast return on investment (ROI). ROI's can run as high as 100% per year and returns over 50% per year are common. The amount of recoverable heat using stack economizers depends on several factors, including initial stack gas temperature and firing rate. In general, boiler efficiency can be increased by 1% for every 40°F reduction in flue gas temperature. For instance, a 400hp stack economizer is able to recover 65% of the heat which would be otherwise be wasted. This could translate to annual energy savings between \$31,000 and \$60,000.

Overall the addition of a stack economizer is one of the most profitable investments to boost plant efficiency. Kemco's stack economizers use stainless steel materials on all major parts to ensure durability and reliability and are built to last, requiring minimal maintenance over its lifetime. Today thousands of companies across different industries, such as laundry and food processing, rely on stack economizers to get the maximum out of their energy spending. Are you ready to join them with a Kemco stack economizer?



Safety at Kemco

Our employees safety is our top priority. One part of our ensured safety is making sure our employees are trained properly. This quarter we had CPR, fire, and confined safety training. These annual safety trainings provide our employees with key safety measures and procedures in case of an emergency. These steps will increase the safety of all our employees and help us to continue creating exceptional products and services for our customers.



Our employees received hands-on experience in our fire safety training.



Confined space training is required when working inside a tank for welding or service.

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Featured Project

Food Processing - Columbia, MO

Company Description:

Food processing plant in Columbia, MO

Background:

Kemco was contacted by a major food processor looking to improve efficiency on their 400 and 600 hp boilers that run almost constantly to produce steam used for processing.

Solution:

The Kemco Stack Economizer would take the heat from the boilers and convert it into heated water. The water then would flow to a plate and frame exchanger where it is hit with steam to heat the water further for sanitation use. The stack economizer would give the boiler the capacity to heat enough water for production.

Results:

The Kemco system has reduced natural gas consumption significantly, producing an average savings of \$8,000 per month, with a peak of \$11,000 and a low of \$4,000. This food processing application saw a 3 ½ month return on investment.

Meet Kemco

Randy Hartman

Title: Manufacturing Manager

Time at Kemco: 8 years

Favorite Spare Time Activity:
Reading

Last Movie Watched:
Beauty and the Beast

Who would you want to be if you could be a Superhero or Fictional Character?: Superman

One Bucket List Item:
Climb a glacier in Alaska



Kemco Announcements

Kemco held their annual Sales Meeting the first week of December. This valuable meeting is held each year to bring the sales team together for 3 days of Kemco solutions education, sales training, team-building, and even a little bit of fun. The meetings are a great opportunity for our sales team to connect and share ideas with each other as well as with each of the departments within our company.

While the team spent a significant amount of time in the “classroom”, they also got together for dinners, went on a plant tour and wentgo-kart racing.

The meeting was a great success, thank you to our Sales Team, we’re all looking forward to a wonderful year of growth ahead of us!



Eric Mueller attended the **TRSA Production Summit & Plant Tour** in Columbus, OH, October 10th & 11th. Several speaker sessions informed the participants about the latest trends in the laundry industry. One of the major topics was the reuse of water in the laundry process. The event concluded with two laundry plant tours in which participants could see equipment such as the stack economizer in action.

Kemco Systems’ Regional Sales Manager **Rick Werren** attended **TRSA’s Maintenance Management Institute (MMI)** in Elizabeth, NJ, November 1- 3. The event included training sessions, workshops about preventative maintenance, and other relevant topics in the laundry industry. A plant tour through a laundry facility demonstrated attendees the application of different equipment such as Kemco’s Direct Contact Water Heater in the laundry process. Rick gained valuable industry insights through this event and was awarded with a MMI certificate.

Kemco is proud to be part of the Pinellas County community. We showed our appreciation for this great community by donating to the Sheriff’s Office this month. Kemco is grateful for the Sheriff’s work to keep us and our families in Pinellas County safe. Thank you to Sheriff Bob Gualtieri and his team of deputies for their great work.



Kemco cleaned up the office and donated used office equipment to the Gus A Stavros Institute Enterprise Village program this month. This economic education program provides a hands-on learning experience to elementary students. After 6 weeks of classroom study, students spend one day at the village putting their educational objectives into action, working in one of the 20+ businesses. Many students consider this their best educational experience in elementary school. We’re happy to contribute to such a wonderful program!



Celebrating Anniversaries

Thank you to our dedicated employees for your continued hard work and contributions to Kemco's success!

Larry Jessup	1 year
Jason Smith	2 years
Joe Babiera	3 years
Piotr Ozog	3 years
Randy Hartman	8 years

New Hires

We want to welcome our new Kemco team members!

Jose Mendieta	Engineering
Gregory List	Welding
Josh Swartz	Shipping/Receiving
Christopher Botts	Shipping/receiving

Meet Kemco

Julio Lopez

Title: Fabricator

Time at Kemco: 16 years

Favorite Spare Time Activity: Playing Soccer

Last Movie Watched: Hercules

One Bucket List Item: Visit Jerusalem



Upcoming Events

January 30 - February 1 - Atlanta, GA

With over 1,200 exhibitors and 30,000 visitors the **International Production & Processing Expo (IPPE)** is one of the biggest food processing trade shows in the United States. **David Lemen, John O'Hehir and Jim Gorrell** will be present at the show and welcome the opportunity to meet with you to discuss our latest innovations in water and energy solutions for the food processing industry.

February 18 - February 20 - New Orleans, LA

Jim Gorrell will be attending the ITRA Mid-Year Conference & Supplier Exhibits in New Orleans. Jim would love to talk with you about our water and energy solutions. Give us a call and we'll meet you in New Orleans!

February 21 - 22 - Anaheim, CA

David Lemen will be attending the **TRSA Production Summit & Plant Tour**. This networking event brings attendees up to speed on the latest process improvements for better throughput and increased profitability in plant operations.

February 22 - 24 - Denver, CO

Kemco's vapor energy and direct contact water heating solutions will be the highlight at **The Precast Show**. **John O'Hehir, Bill Gallagher and Jim Gorrell** will be at booth **#2562** ready to share Kemco's precast solutions with you.

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