



The KEMCO CONNECTION

Fall 2018

in this issue...

What's happening at Kemco?

Featured Project - Laundry

Meet Kemco

Low NOx Water Heating *Decreasing NOx emissions from our plants*

With many states increasing their regulations of nitrogen oxide emissions (NOx), there has been a substantial interest in finding innovative technologies to decrease emissions and further environmental and sustainability goals.

Nitrogen Oxide (NOx) is created from the reaction of nitrogen and oxygen gases during combustion. Much of this NOx pollution is created by transportation, energy production and manufacturing plants during the combustion of natural gas-fired burners.

NOx can become dangerous when it reacts to the sunlight and other chemicals by creating smog and contributing to climate change. At high levels of exposure, breathing emissions can cause respiratory illness, headaches, coughing and other health complications.

Thermal NOx is the largest contributor to overall NOx emissions



The environmental concerns regarding NOx emissions from natural gas-fired burners has led several states to initiate regulations for NOx emissions. During combustion, the natural gas-fired direct contact water heater can generate between 100-120 ppm NOx. These regulations are requiring emissions to be below 30 ppm; and, in the most stringent areas, below 5 ppm.

For nearly 50 years, Kemco has offered the TE-100, at 99.8% efficiency, this direct contact water heater has become widely accepted as the most efficient means for hot water production.

In order to continue to offer the 99.8% efficient technology in areas of the country with the most restrictive emission standards the Low NOx version of the TE-100 was developed. This heater will effectively reduce the NOx emission to single digit (ppm), while maintaining thermal efficiency levels at 99.8%.

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Low NOx Water Heating

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We are proud to be doing our part to keep plants in compliance of these strict standards while significantly reducing the amount of NOx in the air.

Actual Results

BURNER POSITION	O ₂ %	NO _x (PPMc)
100	7.6	5
90	7.9	4
80	7.7	5
70	7.8	5
60	7.9	5
50	7.6	5
40	7.5	6
30	8.8	2
20	9.6	1
10	-	-
0	-	-

PPMc = Parts per Million, corrected to 3% O₂

Featured Project

Laundry - Richland, WA

Start Up Date:

The Solutions

Founded in 1944, this family owned commercial laundry in Richland, WA focuses on delivering excellent service as well as operating an environmentally-friendly facility.

The laundry was not using a water reuse system and discharging directly to the public sewer. High levels of FOG (fats, oils and greases) were exceeding discharge limits and leading to significant surcharges. In addition, the plant was using an excessive amount of energy heating water for operation.

After an analysis of the laundry operations, it was decided that the installation of a Ceramic Microfiltration (CMF) followed by a Reverse Osmosis System (RO) would significantly reduce contaminants in the wastewater, keeping the plant safely within city sewer discharge limits. To reduce the energy needed in water heating, a heat reclamation system was installed to preheat incoming freshwater.

The Results

With the combined CMF and RO system the laundry can reuse up to 70% of their wastewater, this translates into water savings of 250,000 gallons per week. In addition, the gas consumption for water heating purposes dropped by 20% due to the highly-efficient heat reclamation system. The systems resulted in exceptional savings and contributed to the plant's commitment to environmentally-friendly operation, while ensuring a rapid return on investment.

Meet Kemco

Alci Garcia

Title: Materials Manager

Time at Kemco: 11 years

Favorite Sports Team(s):

Boston Celtics

Favorite Spare Time Activity: Spending time with family, playing poker and reading

Last Movie Watched:

White Boy Rick

One Bucket List Item:

Hunt a large animal in Alaska



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Kemco Announcements

President Tom Vanden Heuvel recently attended the 33rd Annual WaterReuse Symposium in Austin, Texas from September 9-12. While at this symposium, Tom and over 600 other water reuse professionals spoke about the benefits of recycled water while brainstorming new ways to reuse water in the future.

Midwest Regional Sales Manager John Sutton attended the American Association of Meat Processors (AAMP) Convention in July in Kansas City, MO. While at the Convention, John met with small operators in the meat industry to brainstorm on how Kemco Systems could benefit their plants through new ideas and services.



John O’Hehir was in Montreal for the 2nd Annual **TRSA Canadian Production Summit and Plant Tour** earlier this month. While in Canada, John networked with laundry professionals while learning new developments in the linen, uniform and facility services. To wrap up the Summit, participants were given plant tours in the Toronto area. Kemco is proud to be an established vendor for water heating and wastewater recycling solutions on an international level.

Denis Shalin, Designer at Kemco became a U.S. Citizen this summer! Congrats Denis!



Meet Kemco

Brenda Broome

Title: Accounting Manager

Time at Kemco: 14 years

Favorite Sports Team: Tampa Bay Lightning

Favorite Spare Time Activity: Attending Festivals and Reading

Last Movie Watched: Deadpool 2

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

One Bucket List Item: See the Egyptian Pyramids



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Celebrating Anniversaries

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

Greg List	1 year
Mandy Naumann	2 years
Hannah Jones	2 years
Justin Rogers	2 years
Gene Barry	2 years
Tom Vanden Heuvel	2 years
Joel Avitia	2 years
Jim Gorrell	3 years
Bernie Pender	3 years
Cody Davis	3 years
Brandon House	3 years
Tna Abentroth	4 years
Rodney Worley	5 years
Sam Villalpando	12 years
Doug Cunningham	12 years
Dinh Nguyen	13 years
Mirko Vlacic	14 years
Michael Gesualdo	20 years
David Irland	24 years
Bill Howard	33 years

New Hires

We want to welcome our new Kemco team members!

Katie Giroud	Marketing
David Colby	Sales
Katherim Llera-Perez	Drafting
Mason Glass	Welding
Aric Pettis	Fabricator
Gustavo Diaz	Shipping/Receiving
Jocelyn Bocker	Engineering

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Upcoming Events

September 26 - 26, Philadelphia, PA

John Pabalan and **Pete Peters** will be attending TRSA's Maintenance Management Institute (MMI). MMI emphasizes the latest technologies and maintenance practices that empower laundry personnel to create more effective, efficient maintenance practices.

October 12 - 13, Toronto, Canada

David Lemen, **Gerry Van Gils** and **Rick Warren** will be attending the **Canadian Fabricare Association's (CFA) Conference**. With the theme of the conference being Diversify and Grow, we know that they will return with innovative ideas on how to strengthen Kemco System's involvement in the laundry industry.

October 22 - 24, Las Vegas, NV

Stephen Stewart will visit the **TRSA Production Summit & Plant Tours**. Participants will gain valuable insights on industry developments and latest technologies in the production industry.

November 6 - 9, Scottsdale, AZ

Stephen Stewart and **Gerry Van Gils** will be attending The International Water Conference® (IWC), which brings together end users, researchers, practicing engineers, managers, educators, suppliers and contractors dedicated to advancing new developments in the treatment, use and reuse of water for industrial and other engineering purposes.
