

# THE EXCHANGE

## WINTER 2018

### PROJECT HIGHLIGHTS



#### **TP Mechanical's Innovative Parallel Racking and Underground Heating Systems Provide Optimal Temperature Control and Cost Savings**

**SERVICE: SENKO (U.S.A.), Inc.**  
Winchester, KY

Senko (U.S.A.), Inc. needed the capability to run an industrial walk-in cooler and freezer at different temperatures consistently. Our service team delivered by installing parallel racking systems and an underground heating system, both of which can be monitored and controlled via the web from any location – even the corporate office in Japan.

By optimizing the systems' energy usage, our design and installation provides the customer significant savings on their utility bill. We provided additional savings by installing a glycol heating system under the building's concrete slab to provide enhanced, around-the-clock temperature regulation.

"This system is the exception to the rule when it comes to temperature control and efficiency," said Terry Goins, operations manager at SENKO (U.S.A.), Inc. "This allows us a tremendous amount of flexibility in warehousing at multiple temperature ranges and opens more doors for new customers."

#### **TP Mechanical's Expertise in Value Engineering and Pre-Fabrication Reduces Project Timeline and Cost**

**COMMERCIAL: Topre America Corporation**  
Springfield, OH

Topre America Corporation, a Japanese auto part manufacturing firm, recently purchased the 30-acre Champion City Business Park in Springfield, Ohio. The company intends to use the 146,000-square-foot facility for both stamping and assembly processes to support their work with Honda and Toyota.

TP Mechanical was contracted to streamline the install schedule of the HVAC, fire protection and plumbing systems. During the scope review, TP Mechanical identified some areas that seemed oversized and overpriced. Our team expedited the timeline and reduced costs by:

- Utilizing our ISO-certified facility to prefabricate the facility's mechanical room – from the concrete slabs to the piping racks.
- Removing redundant equipment, thus eliminating unnecessary maintenance in the future.
- Removing unnecessary "super low sound" fans from the design and using the appropriate standard fans.

**To learn more about these projects, visit [tpmechanical.com/portfolio](http://tpmechanical.com/portfolio).**

# A MESSAGE FROM THE PRESIDENT AND CEO, BILL RIDDLE

## TP Mechanical Prepared for the Opportunities and Challenges of 2018

In 2018, TP Mechanical is looking forward to many exciting opportunities and challenges. Our continued dedication to being an industry and community leader positions us for success throughout the New Year.

We are fortunate to work in a peak time for our industry's market, in which many project opportunities for the commercial and service divisions exist. While these upcoming opportunities could present us with challenges, we will utilize our knowledge, experience and resources to achieve our goals and provide the service our customers deserve and have grown to expect from TP Mechanical.

As a company, we must continue to focus on training, innovation and utilization of new technologies and techniques. Keeping our facilities, services and employees up-to-date with industry trends, standards and training allows us to deliver for our clients while helping our employees achieve their professional and personal goals.

During 2017, we had great success working in our communities to support their needs. In November, through our gala fundraising efforts, we were able to raise \$18,000 for A Kid Again. This organization provides resources for families of children with special needs. We will continue to support and invest in our communities as we can only be as successful as the communities we live and do business in.



I am looking forward to what 2018, and the future, holds for TP Mechanical.

**To learn how TP Mechanical can provide you with innovative, comprehensive mechanical services and solutions, visit [tpmechanical.com/why-choose-tp-mechanical](http://tpmechanical.com/why-choose-tp-mechanical).**

## SERVICE SPOTLIGHT

### Protect Your Facility's Water Systems with Backflow Testing

Backflow contamination is a critical public health issue that occurs when toxins from one part of a water system flow into a fresh or potable water supply line.

Testing, maintenance and repair are key to ensuring a water system is properly functioning and preventing backflow contamination. OSHA's sanitation standard (1910.141) states: "Construction of nonpotable water systems or systems carrying any other nonpotable substance shall be such as to prevent backflow or backsiphonage into a potable water system."

Ohio, Kentucky and Indiana plumbing codes require all backflow prevention devices be tested annually by a licensed plumber, and TP Mechanical will ensure code compliance and system effectiveness.

"Meeting codes and standards is important because public health is vital," said Mike Kelley, TP Mechanical's Quality Control Associate. "Our licensed backflow testing ensures your water systems are code compliant and keeping the supply safe."

One of the most common culprits is the simple water hose connection. If a water hose is not protected with a backflow prevention device, such as a vacuum breaker, the water hose creates a path for cross-contamination to the potable water system. Without



a backflow preventer in place, everyday tasks become dangerous by allowing whatever is in that system to flow back into drinking water.

Backflow prevention devices are also key components in avoiding contamination events from irrigation systems, fire suppression systems and large boilers. Without a properly functioning preventer, these types of systems are susceptible to biological, chemical and mineral contamination because water often sits stagnant in them, allowing bacterial and inorganic material build-up.

"Checking all preventers for leaks and the whole system for pressure issues is critical," said Mike. "These are both common culprits when backflow occurs, and they put your facility and the entire local water supply at risk."

**To learn how TP Mechanical provides comprehensive, innovative solutions to ensure your plumbing meets code, visit [tpmechanical.com/why-choose-tp-mechanical](http://tpmechanical.com/why-choose-tp-mechanical).**

## SAFETY SPOTLIGHT

### Key Safety Guidelines to Prevent Carbon Monoxide Poisoning

*"Safety First, Always First."*

With winter's colder temperatures and heating systems running around the clock, it is important to be aware of the heightened risk and symptoms of carbon monoxide poisoning.

Carbon monoxide (CO) is an odorless, colorless and toxic gas that is produced when incomplete combustion of carbon-containing materials (i.e., natural gas) occurs. Because it's odorless and colorless, CO often goes undetected. With many facilities and homes utilizing natural gas furnaces and water heaters, winter weather puts everyone at an increased risk of CO poisoning.

"Risks for CO poisoning are higher than many realize, especially because the causes are often overlooked in our day-to-day lives," says Jamie Absher, Safety Specialist at TP Mechanical. "It could be something as simple as a faulty gas line or an improperly vented furnace – which are preventable with proper maintenance."

According to the Public Utilities Commission of Ohio (PUCO), here are some ways to reduce the risk of carbon monoxide poisoning:

- Install a carbon monoxide detector. These devices work similarly to a smoke detector, only they measure the amount of carbon monoxide in the air.
- Have appliances that use natural gas inspected by a qualified repair person once a year.
- Inspect the vents, flues and chimneys of all gas water heaters, furnaces and fireplaces to ensure proper ventilation of exhaust.
- Never use an oven to heat rooms. This can damage the oven and cause carbon monoxide to be released into the building.
- Never heat a room with a gas or kerosene space heater that does not have proper venting.



Why is monitoring CO levels and preventing CO poisoning so critical? Because the effects can be permanent or fatal, as CO exposure hampers our blood's ability to carry oxygen to body tissues and vital organs. According to the Centers for Disease Control and Prevention (CDC), hypoxia (severe oxygen deficiency) due to acute CO poisoning may result in long-term or irreversible brain or heart damage.

Some common symptoms of CO exposure include:

- Headache
- Nausea
- Rapid breathing
- Weakness
- Exhaustion
- Dizziness
- Confusion

"If your CO alarm goes off or you experience any CO exposure symptoms, do not hesitate to act," says Jamie. "Immediately move to fresh air and contact the local emergency services or call 911."

**To learn more about our commitment to workplace health and safety, visit [tpmechanical.com/about-tp/safety](https://tpmechanical.com/about-tp/safety).**

## TP MECHANICAL IS RIGHT AT HOME WORKING IN YOUR COMMUNITY

### Cincinnati - Corporate Office

1500 Kemper Meadow Drive  
Cincinnati, Ohio 45240  
O: 513-851-8881

### Columbus

2130 Franklin Road  
Columbus, Ohio 43209  
O: 614-253-8556

### Dayton

2064 Drill Avenue  
Dayton, Ohio 45414  
O: 937-985-9133

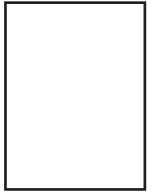


### Lexington

2409 Over Drive  
Lexington, Kentucky 40511  
O: 859-685-2198

### Indianapolis

1811 Executive Drive, Suite M I  
Indianapolis, Indiana 46241  
O: 317-744-9061



## IN THE COMMUNITY

### 2018 Cincinnati Heart Mini

March 17-18

*Our Village is Why.*

TP Mechanical is a big supporter of the Cincinnati Heart Mini – Cincinnati’s largest two-day fundraiser benefiting the fight against heart disease and stroke.

This event has something for every age and activity level, including: 5k and 15k runs, half marathon, 5K walk, Kid’s Fun Run, 1K Steps for Stroke, and a Health & Fitness Expo. TP Mechanical will have a booth at the Expo, so stop by to learn about what we do and our safety practices, and join us in celebrating and supporting overall health and wellness.

Our team name is “The Village People,” and our goal is to raise \$5,000 for the 2018 marathon.



*Our Village* is why.

**To join our team and make a contribution,  
visit [heart.org/site/TR?fr\\_id=3297&pg=team&team\\_id=386173](http://heart.org/site/TR?fr_id=3297&pg=team&team_id=386173).**



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