



MRBraz and Associates, PLLC

COOL NEWS

June 2019 : Issue 14

Plant Process Pressurization Analysis

Our first MRBraz Process Pressurization Analysis (PPA) system has been built and is currently being tested at VWMB.

Food at its most vulnerable point in the process is where your operation needs to be the cleanest. For example, the filling and sealing of yogurt cups and the packaging of cooked lunchmeat are applications where food has already gone through kill step(s) and must be kept clean until it's sealed and ready to go out the door. What is a kill step? A "kill step" is the term typically used to describe a point in the food manufacturing process where potentially deadly pathogens are eradicated from the product

With a filtered, positive air pressure in a clean room, bacteria and other airborne contaminants (e.g. mold spores, viruses and allergens) can be forced outside or into "dirtier" areas of the plant where air quality is not as critical.

It is necessary to achieve the correct balance between supply air and exhaust air in each space to maintain proper pressurization and, in turn, reduce or eliminate undesirable conditions. Establishing zones of control helps prevent unwanted contaminants from entering into clean areas and guides the placement and size of air supply and exhaust throughout the facility. Our new MRBraz PPA system aims to do just that! Each sensor has the ability of monitoring air pressure differentials inside desired rooms within a plant, while also establishing control points.

www.foodengineering.com



"Each sensor takes measurements constantly and sends them to the wireless transmitter, which then sends it to the computer every 15 seconds. The computer can be set to specific parameters, and also to self alarm based on specific pressures." Charlie Friedman, Senior Applications Engineer

Project Updates

New Skid Construction

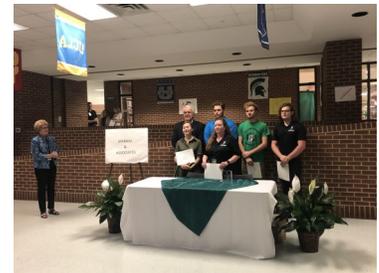


Sanger Renovation



Pictured: Tod McElduff, Roland Gonzales, Jr., and Brian Wallace

Azle High School Industrial Refrigeration Students Honored



Students received CTE certification from Azle ISD for working at MRBraz & Associates.



CONGRATULATIONS to the 2018-2019 Industrial Refrigeration Class I & II Students for finishing out the year strong!

A special thank you to Dr. Murr, Mrs. Wrick, and all Azle ISD staff involved that have allowed us to continue the Industrial Refrigeration Program at Azle High School.

Gage Bass, Bradley Collins, Ethan Cross, Kaylen Holmesly will continue their work with MRBraz & Associates this summer.



Mr. Freeze was up and running this morning as the 2018-2019 school year came to an end.





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World Refrigeration Day is June 26th



The entire world-wide HVAC & R Industry is encouraged to take the opportunity to promote the significant role of refrigeration, air conditioning and heat pumps in the well-being of mankind for the first World Refrigeration Day on June 26th.

The term 'refrigeration' can be used in its widest sense as the process of achieving and maintaining a required temperature below that of its surroundings. An example of refrigeration is the preservation and distribution of perishable food products. Refrigeration systems are also used extensively for providing thermal comfort to human beings by means of air conditioning. Similarly, heat pumps are devices that take heat from one source and move it to another location.

Think about your day and how we depend on the services and comforts the HVAC & R industry provides. A typical weekday may look like:

- 6 AM– Breakfast—Cereal with milk (stored in the Refrigerator)
- 6:30 AM– Drive to work (Climate Control on)
- 7 AM- Arrive at work (AC on or Heat on depending on the weather)
- 12 PM– Errand Run — Go grocery shopping and grab lunch at the deli (Industrial Refrigeration)
- 3 PM– Grab a coke (Office Refrigerator)
- 5 PM– Drive home (Climate Control on)
- 6 PM- Grab a sweet tea and prepare dinner (most of the contents stored in the Freezer or Refrigerator and depending on ambient conditions turn on the AC or Heat)
- 10 PM– Go to bed (Adjust the Thermostat)

It's so easy to forget that HVAC&R systems operate continuously to ensure that the spaces people occupy are comfortable. It's even easier to forget that HVAC & R systems work hard 24/7 to keep the food and beverages we eat and drink maintained to temperatures that prevent unwanted bacteria growth ensuring food is kept suitable for human consumption.

As the population continues to rise, the need for refrigeration will continue to increase as well, which then brings many questions regarding the impact this will have on the environment. Given that on a Federal level, greening the cooling sector is one of the low-hanging fruits in the climate change battle, it's up to companies to step it up.

So, here at MRBraz we will not only celebrate National Refrigeration Day for the efficacy of our products but also for their energy and water savings, safety and zero ozone depletion; this due to our innovative engineering design and the use of the only natural refrigerant, ammonia. As we gear up for summer, let's appreciate how far refrigeration has come— life would be infinitely harder without it!

www.worldrefrigerationday.org

Experience teaches us...

This Spring season has been a very rainy one. Much of the rain is coming down heavy and making planning activities an art since it is hard for the weather man to guess it right.

Our work has to be in the forecasting, and planned activities should be made accordingly. These plans may have to change also as our forecast changes. Much of the weather dynamics affects our systems out there fighting against the elements, but also reminds us we need to be constantly evaluating our work ahead to allocate resources.

I read an article this week stating that experience can be defined as a very demanding teacher because it tests us first and then shows us the lesson to learn. The better we forecast activities based on previous experiences the best chances we have to perform in the always changing market environment that surrounds us.

It is very important to get involved in preparation, communicate concerns, and use strategies to keep performance at its highest with the best of our experience available. We all need a humble mind to enhance learning, exchange experiences to construct new projects. Never forget that as we gain experience in our business the stronger structure we have to grow forward.

I always thought that experience can be painful but also can be a great teacher for the future around us. The important aspect is to consult past experiences to construct a better one in the future. The new experience is always welcome if we have learned from our past experiences. Even though they are not the same or similar still can be used to guide us with good confidence to approach the new. Enjoy summer ahead. Stay cool.

Marcos Braz, P.E., President

Birthdays And Anniversaries

- 6/5 Kevin's Birthday
- 6/11 Kim's Anniversary (2018)
- 6/25 Alex's Anniversary (2018)



Employee Spotlight:

Congratulations to Lesya who completed the Chattanooga Half Iron Man!



MRBraz 10 Year Anniversary Events



Thank you to all who came to celebrate with us!



LOL Break

