



The Mulvaney Pipeline

HOLY COW! VIOLENCE AT WORK

Record temperatures play havoc with air cooled condensers. It's HOT

Recent record breaking temperatures experienced this year have many people questioning the effectiveness of their air conditioning systems. In terms of the typical R22 based air cooled condenser system, ambient outside air temperature has a profound effect on cooling ability.

New England enjoys temperate summers with outside air temperatures rarely exceeding 100 degrees. Design temperatures for new systems utilize regional norms for temperature variations. The same holds true for warmer climates. Problems arise when we see record temperatures as we recently experienced in Arizona, Nevada and California.

Although older CFC refrigerants, when compared to newer substitutes have very similar pressure/temperature curves, all refrigerants have a point where they fail to deliver acceptable cooling. As outside air temperature rises, refrigerants lose efficiencies while requiring higher consumption of power. 115 degrees is widely accepted as the temperature where most refrigerants drastically lose the ability to cool.

We all know that air conditioning efficiency depends on many factors, not the least of which is routine maintenance, regular cleaning and diagnostic checkups. High heat conditions can render these maintenance steps ineffective even though the system is properly sized and maintained. Air cooled condensers begin to lose effectiveness at and above 100 degrees. Heat conditions above 115 degrees spell disaster for air cooled condensers and refrigerants.

Cooling engineers can design for most any outside temperature. Mother Nature has given us a wakeup call as we design future cooling systems. Maximum design temperatures will need to be re-evaluated to ensure clients are able to cool their sites under high temperature conditions. There is little doubt we are dealing with heat loads that exceed those experienced in the past.



Lookout! They're After Our Water Bottles!

Concord, Massachusetts has become one of the first communities in the U.S. to ban the sale of single-serving plastic water bottles.

According to the Associated Press, the plastic bottle ban resulted from a three-year campaign by local activists. The activists pushed to reduce waste and fossil fuel use.

Octogenarian Jean Hill lead the charge, telling The New York Times in a 2010 interview, "The bottled water companies are draining our aquifers and selling it back to us." She declared, "I'm going to work until I drop on this."

The campaign Ban the Bottle claims that "It takes 17 million barrels of oil per year to make all the plastic water bottles used in the U.S. alone. That's enough oil to fuel 1.3 million cars for a year." Their website also states: "In 2007, Americans consumed over 50 billion single serve bottles of water. With a recycling rate of only 23%, over 38 billion bottles end up in landfills."

According to the EPA, in 2010, the U.S. generated 31 million tons of plastic waste.

The Town of Concord's website describes the bylaw, stating "It shall be unlawful to sell non-sparkling, unflavored drinking water in single-serving polyethylene terephthalate (PET) bottles of 1 liter (34 ounces) or less in the Town of Concord on or after January 1, 2013." There is an exemption for an "emergency adversely affecting the availability and/or quality of drinking water to Concord residents."

The first offense results in a warning, the second in a \$25 fine, and the third (and each following offense) in a \$50 fine. Concord's Health Division staff are in charge of enforcing the ban.

"Delayed ignition" is the term used to describe the mini-explosion that occurs when it takes too long for the pilot or igniter to ignite the gas. The math formula for calculating the outcome is: How many seconds the gas builds up in the chamber before igniting compared to how big the technician's eyes get while waiting for it to ignite.

UNBELIEVABLE BUT TRUE

- More lives are lost annually in the U.S. from smoking than from cocaine, crack, heroin, morphine, fires, homicide, car accidents, suicide, AIDS, and alcohol combined.
- Insomnia is almost twice as common in women as it is in men.
- Britain's first 'Safe Text' street has been created in London complete with padded lampposts to protect mobile phone users from getting hurt while walking and texting.
- U.S. Farmers use 1.5 billion pounds of pesticides each year--about 5 lbs. for every American.
- The virus that causes the stomach flu can survive on a dirty carpet for more than a month.
- Most frequently recycled items before the 20th century: Bones.
- In 1901, Connecticut was the first state to pass state-wide automobile speed limits (15 mph on country roads and 12 mph in town).
- First successful treatment of Diabetes using Insulin on a 14 year old boy occurred in 1922 .
- 2,000 people a year are injured in the U.S. from trying to pry frozen foods apart.
- 95% of humans are naturally immune to leprosy.
- The human brain shrinks by almost 8% during pregnancy.
- Tennessee is bordered by more states than any other. A total of 8 states.
- A-1 Steak Sauce contains both orange peel and raisins.
- The Pentagon has twice as many bathrooms as needed. Built in 1940, it was designed with segregated restrooms.
- Wearing a helmet can reduce the risk of brain injury from a bike accident by 80%.
- A wire coat hanger is 44 inches long if straightened.
- In Japan, work-related suicide is considered an occupational hazard.
- Chrysler built B-29's that bombed Japan, Mitsubishi built Zeros that tried to shoot them down. The companies partnered in 1995 to build cars in a plant called Diamond Star Motors located in Normal, Illinois.
- The volume of the Earth's moon is the same as the volume of the Pacific Ocean.
- If your eyes are six feet above the surface of the ocean, the horizon will be about three miles away.
- 38% of the North American Continent is designated as wilderness .
- The pitches that Babe Ruth hit for his last-ever homerun and that Joe DiMaggio hit for his first-ever homerun were thrown by the same man.

ZERO TOLERANCE AT MULVANEY MECHANICAL

Mulvaney Mechanical has long maintained a zero tolerance policy for weapons in the workplace and/or workplace violence of any type. It is important that we all realize the serious nature and unavoidable consequences of workplace violence or even the implied threat of violence at Mulvaney work sites. Please remember, firearms, weapons and other dangerous or hazardous devices or substances may not be brought to the workplace.

ALARMING STATISTICS

Every workday, an estimated 16,400 threats are made, 723 workers are attacked, and 43,800 are harassed. The American Management Association, found that 50% of companies surveyed reported experiencing incidents or threats of workplace violence within the last four years. Violence had occurred more than once at 30% of the workplaces surveyed. 25% reported that the incident was by a current employee; 9% reported the problem was caused by a former employee. Given the worldwide increasing rate of incidents related to threats and violence on the job, it is essential we reaffirm our steadfast commitment to a safe workplace.

VIOLENCE AT WORK CAN TAKE MANY FORMS

Short of actual physical assault, workplace violence can include threatening behavior, verbal or written threats, harassment, and verbal abuse. Attacks may not be limited to individuals but may come from an incursion of outside forces entering the workplace. The increase of violence from persons outside the jobsite are on the increase. Being alert to possible incursions is the best defense against this threat.

WHAT TO LOOK OUT FOR

Violent incidents in the workplace ordinarily follow some sort of "trigger" that pushes an already vulnerable person to take drastic action. If an employee or visitor shows signs of mental instability or makes you uncomfortable, please speak with your supervisor.



WHAT YOU CAN DO

Immediately report any violence, implied threats or incidents of harassment to your supervisor. Seek assistance if you are having domestic problems at home. If you have doubts about the subtle difference between a possible weapon and a necessary tool, ask management for guidance. We all benefit from a safe and secure work environment. Help us make jobsites a safer place to work.

QUOTES AND OTHER MUSINGS

- A committee is a group that keeps minutes and loses hours. **Milton Berle**
- I never drink water because of the disgusting things that fish do in it. **W. C. Fields**
- Best way to get rid of kitchen odors: Eat out. **Phyllis Diller**
- My one regret in life is that I am not someone else. **Woody Allen**
- When I was a boy the Dead Sea was only sick. **George Burns**
- If God wanted us to fly, He would have given us tickets. **Mel Brooks**

What t h e h e c k i s i t ?
If you can name the item pictured, you may

WIN A MULVANEY MECHANICAL LEATHER JACKET

If you e-mail your entry, you must write "NEWSLETTER CONTEST" in the subject line to avoid our SPAM filter. Please mail to janette@mulvaneyinc.com

***JUST LIKE THIS ONE!**

If multiple correct answers are received, a winner will be selected at random.

Nowadays nails are sold in neat prepackaged boxes. Gone are the days when they were sold from kegs they were shipped to the store in. This essential tool let you rake out the amount you needed without getting "bit" by the sharp nails.

We received no correct answers this time around. We invite all readers to enter and share a guess. You may win!

WHAT'S GOIN' ON?

| | | |
|---------------------------|----------------------------|------------------|
| Sep 17-18 th | Nat. Fac. Mgt. Conference | Las Vegas NV |
| Sept. 19-22 | ASPE | Orlando, FL |
| Sep 24-27 th | ASIS Security Expo 2013 | Chicago, IL |
| Sep 24-27 th | Construct 2013 | Nashville, TN |
| Sep 25-27 th | World Energy Conference | Washington, DC |
| Oct 18 - 21 st | IFMA Workplace 2013 | Philadelphia, PA |
| Oct 13-15 th | NECA Electrical Trade Show | Washington, DC |

"Everyone talks about the weather, but no one does anything about it." Mark Twain

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