



The Mulvaney Pipeline

Mulvaney
MECHANICAL, INC.
Mechanical Contractors
October - December 2017

HAPPY NEW YEAR 2018!!!

Think Tiny, LIVE LARGE



Although currently only numbering in the thousands, tiny houses are on their way to being the next big thing. Single homeowners are turning to inexpensive tiny houses for comfort and flexibility of location, some are even on wheels. Tiny houses may not be for everyone, but the concept of living in fewer square feet can still apply to the average home. Where allowed, some homeowners are finding new revenue opportunities in renting out their homes while they live in tiny houses elsewhere on the property. People are remodeling to make their homes work for them, and there are many design choices you can make to take better advantage of smaller spaces. Here are some ideas to help maximize smaller space designs. **Let the light in.** What feels smaller than a small room? A small, dark room. Putting cabinets and shelving on walls should be avoided in a small room. Windows and natural light are really important when designing a small space. Try not to put any of your storage at eye level. **Store in the floor or sideboards.** Let windows take up space where shelving would normally be, try using space beneath the floor boards or in ceiling rafters for storage. If that is not working then invest in some double duty furniture. **Install pocket doors.** When every single inch matters, pocket doors take up no floor space. **Think small appliances,** compact or micro kitchens that still allow for cooking, cleaning, refrigeration, storage and high traffic.



SMILES NEVER GO UP IN PRICE
NOR DOWN IN VALUE



UV-C Lamps for HVAC Applications

With a kill ratio of 90 percent or higher, depending on the intensity, length of exposure, lamp placement and lamp life cycle, UV-C inactivates virtually all microorganisms living on HVAC surfaces. The letters "UV" relates to the magnetic wavelength spectrum known as UltraViolet light. This spectrum is more often broken down into four categories: Vacuum, Short Wave, Middle Wave and Long Wave' or VUV, UVC, UVB & UVA. UV-C is the frequency that is the most germicidal and the term UVGI refers to "Ultraviolet Germicidal Irradiation" A Centers for Disease Control and Prevention study conducted in two hospitals found UV-C reduced the total number of colony-forming units of any pathogen in a room by 91 percent. Science has yet to find a microorganism, including superbugs and antibiotic-resistant microbes linked to health-care-associated infections, totally immune to the destructive effects of UV-C. As mold, biofilm and other organic compounds accumulate on cooling coils and other surfaces, an HVAC system becomes less efficient, forcing operators to make energy-intensive adjustments, such as lower chilled-water temperature and/or increase fan speed. In a new HVAC system, continuous bombardment of UV-C energy will prevent such buildup from occurring. UV-C energy reflects exceptionally well and penetrates deep into coils to eliminate buildup that cannot be reached by mechanical (pressure washing) or chemical treatment.



Living Walls: A GROWING TREND



One of the reasons living walls are starting to be so popular is because, increasingly, horizontal space is at a premium. If you don't have enough room to put plants on the floor, then the wall is the next place to go. Most green walls are comprised of a collection of houseplants that gain sustenance from a system connected to the wall. They typically feature some type of growing medium such as soil, fabric or foam as well as a support structure, an irrigation system and drainage. Installing a green wall earns commercial properties points towards both LEED and WELL building Standard certifications, and, as is the case with any indoor landscaping, they offer a multitude of tangible benefits. Green walls help create a natural environment that lasts all year long, which is particularly helpful for places with long winter months. Another useful benefit of a living wall is sound dampening which is also linked to occupant wellness and productivity. Indoor plants also improve acoustics. There is a lot more surface area in leaves to absorb sound. Indoor landscaping also provides a significant "wow" factor. Tenants and visitors notice green walls right away. It not only provides beauty to the building but sparks numerous conversations and is a great backdrop for photos. An obvious benefit includes improved occupant wellbeing. Studies tie indoor plants to reduced stress levels and lower blood pressure. These walls improve air quality by reducing carbon dioxide. However, the sheer volume of air that a building's mechanical system brings in is really going to overwhelm any impact that plants are going to make directly on the quality of the air. Caution, if the green walls are not properly maintained, they can become dusty, especially if underwatered, or moldy if overwatered.

By The Years...

1920...the year penicillin was discovered, 44BC...Gaius Julius Caesar was assassinated, 1940...McDonald's was founded, 1883...Coco Chanel was born, 1974...Barcode was first used on Wrigley's gum, 1953...First Playboy Magazine was published, 776BC...First Olympics in Greece, 2061...Halley's Comet will appear.

Did you know how these Countries Celebrate the Holidays?

SANTARUN, Newtown, Wales

Occurring in the last week of November or the first week in December, the Santarun is exactly as it sounds—lots of participants, many dressing up as Santa, running in a long-distance race. About 5000 people congregate to jog over 7 kilometers.

HOGMANAY, Scotland

Hogmanay is the celebration of the last day of the year, as is celebrated in distinctive Scottish fashion. While many Americans kiss or set off fireworks at the stroke of midnight, the Scottish practice "first-footing," where you attempt to be the first to cross the threshold of a friend or neighbor to grant them good luck gifts for the new year.

RÉVEILLON, Rio de Janeiro, Brazil

How does New Years on the beach sound? That's how it's celebrated in the Brazilian capital, where millions congregate on the sands of Copacabana to watch the calendar roll over. The crowds typically dress in white and bring with them lilies to sacrifice to Yemanjá, Goddess of the Sea, who grants them three wishes in return.

QUEMA DEL DIABLO, Guatemala

Christians in America and many other countries celebrate Christmas as Jesus's birthday, and commemorate his role as conquering Satan to save the souls of all mankind. Guatemalan Christians also express Jesus and Mary's triumph over the devil by literally burning him.

THREE KINGS DAY, Mexico

Three Kings Day commemorates the end of the "Twelve Days of Christmas," which go from Christmas evening to the Epiphany on January 6. As the name suggests, the holiday is based on the biblical story of the Magi, or Three Kings.

SUNBURNT CHRISTMAS, Bondi Beach, Sydney, Australia

Love Christmas but hate the cold? Why not celebrate in on the beach, and one of the world's most famous beaches at that—Bondi Beach in Sydney, Australia. The event occurs on Christmas Day but is celebrated like a summertime beach music festival, with two dozen artists playing on 3 stages.

SANTA'S HOMETOWN, Savukoski, Finland

What better place to celebrate Christmas than where Santa himself is from? Savukoski is known as the home of Father Christmas (Joulupukki in Finnish), where he makes his gifts in a hidden workshop. Because of this, Finnish children are excited that they will be the first to receive gifts from their fellow countryman.

GIANT LANTERN FESTIVAL, City of San Fernando, Phillipines

A lot of us decorate our houses with bright lights for the holidays, but no one can really illuminate a city like the Filipinos. Held on the Saturday before Christmas Eve, the Giant Lantern Festival is competition of huge decorative lanterns called parol. The lanterns can be as big as 40 feet in diameter and illuminated by over 4000 different light bulbs.

WHAT THE HECK IS IT?



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JUST LIKE
THIS ONE



When e-mailing your entry, please write "Newsletter Contest" in the subject line to avoid our SPAM filter.

Send to: MMI@mulvaneyinc.com

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



Last Quarter's Puzzle:



Antique Saw Tooth Setting Tool

WE HAD NO CORRECT ANSWERS THIS TIME



HAPPY THANKSGIVING

WHAT'S GOIN' ON?

| | | |
|------------|--------------------------|-----------------|
| Jan. 20-24 | ASHRAE Winter Conference | Chicago, IL |
| Feb. 26-28 | AGC Annual Expo | New Orleans, LA |
| Mar. 25-29 | MCAA Annual Convention | San Antonio, TX |
| Jun. 23-26 | BOMA International Expo | San Antonio, TX |

Want us to email Pipeline to you?
mmi@mulvaneyinc.com



4 Christopher Columbus Avenue
Danbury, Connecticut 06810
203-797-8005 Fax: 203-794-1786
www.mulvaneymechanical.com

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4 Christopher Columbus Avenue
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