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# Dillett Connection



Fall 2016

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## Ice Ice Baby!

Ice - in a few months it will be everywhere! Black ice on the highways, icicles hanging off the eaves of your home, ice sculptures at a winter carnival. But, the ice we want to discuss is the ice in your iced coffee, fountain soda, mixed drink, even the shaved ice in your child's snow cone at the state fair and the machines that make the ice.

Ice is not always viewed as a food commodity. But it is! That is why it is important to keep your ice machine clean and sanitized.

Proper cleaning will eliminate scale deposits and the growth of bacteria. The cleaning of ice makers should always be performed by a trained service technician who knows the correct chemicals to use for the ice maker being serviced and which parts need to be removed to get the parts fully cleaned. Keeping in mind that ice is a food product will help to ensure it will be safe for consumption.

In addition to the machine itself, at least twice a year the ice storage bin and drain lines should be cleaned to help stop bacteria, mold, and scale build up. In a business that sells food products, such as restaurants, bars, bakeries and sandwich shops (which have airborne yeast that will increase bacteria), the machine should be cleaned on a quarterly basis.

Depending on the quality of the water in your area, there are different products available to ensure the water going into your ice machine is the best possible product. There are filters that help to eliminate water scale and other contaminants, like cryptosporidiosis and giardiasis. Carbon water filters help to remove odor and poor water taste. Ultraviolet lights and ozone water treatments are also available to help with water problems in the ice makers.

Also remember – ice storage bins should only be used for the ice. Storing beverage bottles or food boxes inside the ice storage bin should never occur because these could potentially contain bacteria and germs which might be transferred to the ice.

Water filters, ultraviolet lights, and regular cleaning will not only give you a better product to put in your customer's drinks, but will help to increase the life of your ice machine.

Let us help make sure the ice you are providing to your customers is the best it can be. Call today to schedule a cleaning of your ice machine or an evaluation of your system.

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Another energy saving opportunity for you!

Dillett Mechanical Service Inc. works hard to stay up-to-date on any new technology in the energy efficiency HVAC marketplace. We believe the overall value to our customers increases when we can offer options instead of settling for a traditional medium efficiency solution.

Variable Refrigerant Flow Systems (VRFs) are a great energy saving alternative to a traditional roof top Variable Air Volume Systems (VAV).

VRFs are typically installed with an air conditioner inverter which adds a DC inverter to the compressor in order to support variable motor speed and thus variable refrigerant flow rather than simply on/off operation. By operating at varying speeds, VRF units work only at the needed rate allowing for substantial energy savings at partial-load conditions. Heat recovery VRF technology allows individual indoor units to heat or cool as required, while the compressor load benefits from the internal heat recovery. Energy savings of up to 55% are predicted over comparable unitary equipment. This also results in greater control of the building's interior temperature by the building's occupants.

VRFs come in two system formats, two pipe and three pipe systems. In a heat pump 2 pipe system, all of the zones must either be all in cooling or all in heating. Heat Recovery (HR) systems have the ability to simultaneously heat certain zones while cooling others; this is usually done through a three pipe design, with the exception of Mitsubishi which is able to do this with a 2 pipe system using a BC controller to the individual indoor evaporator zones. In this case the heat extracted from zones requiring cooling is put to use in the zones requiring heating. This is made possible because the heating unit is functioning as a condenser, providing sub-cooled liquid back into the line that is being used for cooling. While the heat recovery system has a greater initial cost, it allows for better zoned thermal control of a building and overall greater efficiencies.

Please feel free to ask us about quoting a VRF option on your next HVAC upgrade to see if it might be a good fit for your facility.

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## FEATURED PRODUCT...

### PreVent Air Intake Filters by Permatron

Cottonwood, insects, leaves, and other debris can cover the condenser coils and decrease the airflow by as much as 50%. Cleaning the condenser coils can be a labor intensive, costly job. PreVent Air Intake Filters by Permatron can keep airborne debris from entering your system without adding significant initial air flow resistance.

Dillett Mechanical Service is proud to announce we are now an authorized distributor of Permatron filters.

These filters are custom designed and manufactured to fit any application, permanent, washable, and made of UV protected polypropylene. They are an economical and long term solution for an industry wide problem. Backed by a 5 year manufacturer's warranty, we will professionally install the filters to ensure your complete satisfaction.



ORDINARY FILTER

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PREVENT<sup>®</sup> FILTER 6 DAYS  
AFTER INSTALLATION  
DURING PRIME  
COTTONWOOD SEASON.

Cottonwood season may be coming to an end for this year  
but insects and leaves are still causing problems.

Contact us today to discuss how PreVent filters by Permatron can work for you.

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## SAFETY CORNER

### ERGONOMICS

Let's take a few minutes to discuss ergonomics.

Ergonomics - it's such a fancy word, but what does it mean? Ergonomics is defined as a science based process that facilitates maximum productivity, improves work quality and in turn contributes to the long term health and safety of our employees. So basically it is a way to work and use your body more efficiently with less fatigue and wear and tear.

Here are a few posture guidelines you can hopefully use in your everyday life.

1) The strongest 3 fingers on your body are the middle finger, ring finger, and pinky. Use of them results in increased surface area when gripping and recruits the strongest muscles of the hand. Use the outside of your hand to grasp

everything. The pinch grip is weakest and can result in discomfort, fatigue and injury of the hand.

2) When you perform tasks, it is best to do so with your thumb in the upward direction. This posture ensures that the elbow and shoulder are in a neutral position. This posture also encourages the use of bicep and tricep muscles instead of your shoulder muscles.

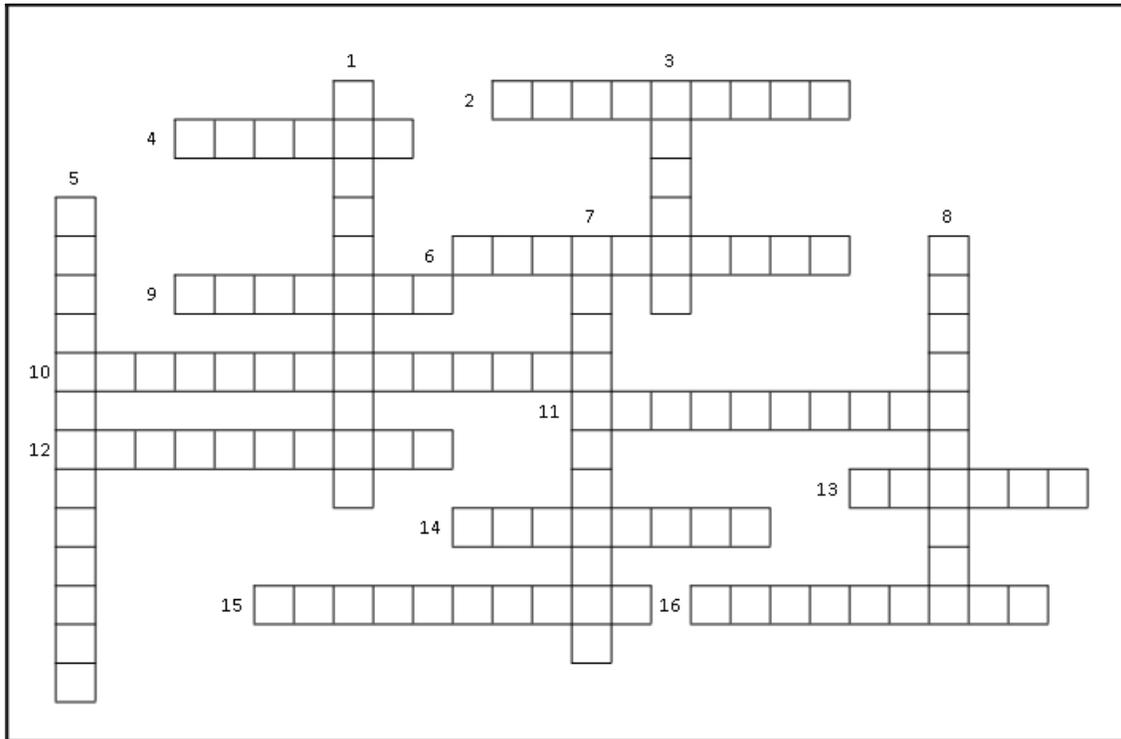
3) 90/90 Knees & Elbows - Always keep your elbows and knees at a 90 degree angle when working at your computer or when lifting heavy objects. Spread your feet past shoulder width and lift with your legs, not your back. Keep your feet flat on the ground or when sitting on a footrest and your elbows in at your sides which reduces strain on your back and shoulders.

4) 30/10 Repetition Rule. When in neutral posture, you can do up to 30 repetitions per minute to avoid fatigue. When in an awkward posture, doing up to 10 repetitions in 1 minute may reduce fatigue. When repetitions are greater than these recommended amounts, there is an increased risk for fatigue, discomfort or delayed onset muscle soreness.

Information from ErgoFit Solutions - Alliant Energy

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## BREAK FOR FUN!



### ACROSS

- 2 Variable \_\_\_\_\_ drive
- 4 Helps to remove impurities from water
- 6 Business type
- 9 It cools a liquid
- 10 Safety topic from our last newsletter
- 11 Controls the temperature
- 12 Negatively effects airflow
- 13 Our #1 Priority!
- 14 Saves 50% of the energy used by a rooftop unit (See our website)
- 15 Facilitates maximum productivity
- 16 Dillett Mechanical is an authorized distributor

### DOWN

- 1 Part of HVAC
- 3 Direction your thumb should be when performing a task
- 5 Type of warranty
- 7 Helps to prevent problems with equipment
- 8 Hours a day emergency service is available.

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## Dillett Mechanical Service

### Mission Statement

"Offering the highest level of service as we continue to innovate and improve."

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Dillett Connection  
3rd Quarter 2016

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