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Refrigerants 101

Refrigerants are vital for air conditioning and heat pump systems. These fluids act as the transport vehicles for heat from your home to outside in the summer (and vice versa for heat pumps during winter). Over the years, various chemicals have been used in an attempt to get the right balance of properties for this critical task.

Here are some important facts about refrigerants.

A Brief History

The first practical refrigerator was invented by an Australian, James Harrison, who used ether, alcohol or ammonia as the refrigerant. These early refrigerants proved toxic so in the 1920's, scientists came up with chlorofluorocarbons (CFCs), which were non-toxic and stable.

Unfortunately, after about five decades of accumulation in the atmosphere, scientists discovered that it was destroying the ozone layer. The Montreal Protocol was signed in an effort to reduce the amount of CFCs released into the air. Of course, that meant finding something else to keep

everyone cool.

We have since moved to hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs), two chemicals that are less damaging to the ozone layer. But not even these new refrigerants are perfect because they contain fluorine, which has a high global warming potential (GWP).

Most Commonly Used Refrigerants

Your air conditioning system most likely has one of the two refrigerants most commonly used for residential air conditioners: R22 (a CFC also known as "freon") and R410A (an HFC free of chlorine).

R22 is still in use in older air conditioners. Because of the Montreal Protocol, it is being phased out and in 2020, manufacture of new freon will stop.

R410A is now widely available and if you have a unit installed within the last 5 years or so, you probably have this type of refrigerant.

Continued on page 2



Rich Galbraith
\$100



Tom Siebert
\$50

Newsletter Winners

Refrigerants 101

Cont'd from page 1

Should You Change The Refrigerant Or The Whole System?

Replacing R22 with R410A is not as simple as changing the refrigerant. R410A operates at a higher pressure and uses a synthetic lubricating oil while R22 uses a petroleum-based oil. The compressor, condenser and evaporator must all be replaced. The refrigerant lines may be reused if able to withstand the higher pressure.

For units near their end of life, it's better to replace them and gain the benefits of a higher efficiency with a refrigerant that is better for the environment.

If your heat pump or air conditioning system still uses the old refrigerant and you'd like to upgrade to a safer alternative, or if you want to get the efficiency that comes with a new system, give us a call and we'll help you get cooling without the environmental issues.



What is Dust Control?

If you live on a gravel road or run a business with a gravel parking lot, you know how inconvenient road dust can be. Your neighbors at Climate Control know firsthand so we offer the industry-best solution for South and North Dakota dust control.

RoadSaver is a safe option for dust suppression that is applied over gravel to achieve road dust control. It is formulated with magnesium chloride which the US Department of Agriculture classifies as the least harmful dust suppressant to vegetation and groundwater.

RoadSaver is a liquid dust control that works by keeping fine particles on the road which limits the dust in the air and offers the secondary benefit of improving road quality and providing erosion control.

Call 605-225-9822 for a quote or more information!

\$20 off

SINGLE USE ONLY. CAN NOT BE COMBINED WITH ANY OTHER OFFER. CALL FOR MORE DETAILS.
EXPIRES 07-01-18

ANY
SERVICE
OR
REPAIR

Baked Squash Chips

with a Teriyaki Aioli Sauce



- 1 Yellow Squash
- 1 Zucchini Squash
- 2 Eggs, Beaten
- 1/2 Cup Italian Breadcrumbs
- 1/2 Cup Grated Parmesan Cheese
- Olive Oil

Preheat oven to 450°F. Precoat a pan, cooking stone, or casserole dish with olive oil. Mix breadcrumbs and cheese. Using a sharp knife, thinly slice squash. Dip squash chips in the eggs, then dredge in the breadcrumb/cheese mixture.

For the Teriyaki Aioli Sauce

- 1/2 Cup Mayonnaise
- 1/2 TBSP Olive Oil
- 1 TBSP Teriyaki
- 1/2 TBSP Minced Garlic
- Salt to taste

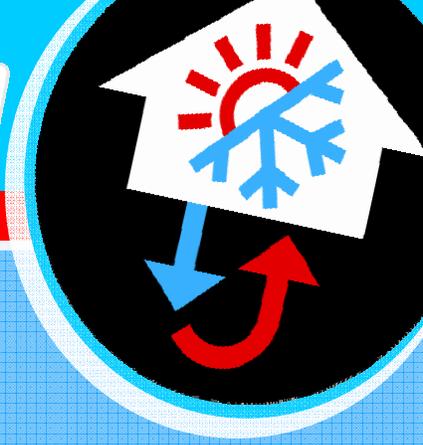
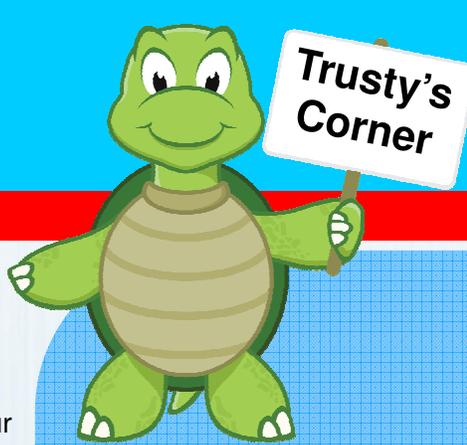
Arrange chips on the pan and lightly spray with olive oil. Bake approximately 15 minutes until the top is browned.

For the sauce, mix and adjust to taste.

Save \$100

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EXPIRES 07-01-18

ON AN AIR
CONDITIONER
REPLACEMENT



Why Is Maintenance So Important?

The purpose of preventative maintenance is to keep your HVAC system up and running all season long with no surprise breakdowns, while operating at top efficiency. You rarely see your HVAC system face to face, so it's easy to forget about it and neglect it. Imagine doing the same with your car. If you never have the oil changed or refuse to take your car in for any kind of tune-up until the check engine light comes on, you can't expect it to last more than a couple of years.

Your HVAC system is the same way. No matter how expensive the system is or what the manufacturer promises, a complicated piece of mechanical equipment is subject to breakdowns and needs repairs every so often. Reduce the incidence of repairs by keeping on top of annual maintenance.

With a Climate Control Service & Maintenance Agreement Membership, you receive these benefits:

-  24-Hour-a-Day Availability
-  Flat-Rate Pricing Structure
-  Waived Holiday/After-Hour Fees
-  Priority Service Scheduling
-  Customized to Your Home and Your Specific Needs
-  Peace of Mind

Benefits of Annual HVAC System Maintenance

- ◆ Lower Energy Bills
- ◆ Fewer Repairs
- ◆ Lower Chance of Catastrophic Breakdown
- ◆ Longer Equipment Life
- ◆ Safer Equipment Operation

605-225-9822

Solve the clues to reveal the secret summer answer to the code in the blue boxes.

What is Trusty's best summertime drink?

1			B	White, fluffy farm animal
2	X			Sign over door
3		O		Orbits the Earth
4			R	Opposite of under
5	E			Bird's _____
6		N		Your parent's sister
7		O		_____ bell
8	A			Compass Point

Answer: Lemonade. 1. Lamb. 2. Exit. 3. Moon. 4. Over. 5. Nest. 6. Aunt. 7. Door. 8. East.

CHA-CHING.

ENERGY EFFICIENCY + EQUIPMENT REBATES,
SAVING MONEY HAS NEVER BEEN SO EASY!

UP TO
\$850

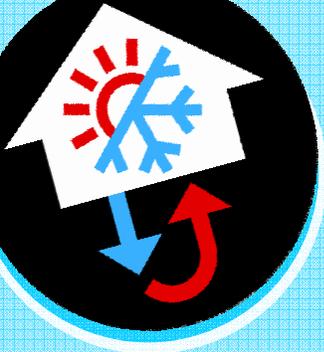
REBATES
ON NEW SYSTEM




CALL TODAY!
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WIN \$100 WITH CLIMATE CONTROL

Limit 1 entry per person. No purchase necessary. A purchase will not improve your chances of winning. Winner will be selected at random within 30 days of entry deadline. All decisions are final. All entrants agree to contest rules, which require winner to sign a prize and publicity release unless precluded by law. Must be 18 to enter. Failure to comply results in disqualification. Entries void if incomplete or illegible. No responsibility is assumed for lost, late, or illegible entries. Company employees and family members are ineligible. Odds depend on the number of entries received. Acceptance of the prize implies consent to use name and image in promotional material with the prize as compensation. All taxes are the responsibility of the winner.

Complete and return for a chance to win \$100 cash. If you correctly answer the three questions below, we'll enter you in a drawing for \$100 cash. Second prize will be \$50 cash. All entries must be received by 6/30/2018 Mail to: Climate Control, 1910 130th St. NW, Aberdeen, SD 57401 or scan and email to info@climatecontrolprofessionals.com

- 1.) The two most common types of refrigerant are _____ & _____.
- 2.) What is Trusty's favorite drink? _____
- 3.) What are three benefits of a Service & Maintenance Agreement? _____,
_____, _____.

Please Contact me about:

- | | |
|--|---|
| <input type="checkbox"/> Service Maintenance Agreement | <input type="checkbox"/> Air Filtration |
| <input type="checkbox"/> Upgrading Heating/Cooling Equipment | <input type="checkbox"/> UV Light |
| <input type="checkbox"/> Dehumidifier | <input type="checkbox"/> Water Softeners |
| <input type="checkbox"/> Humidifier | <input type="checkbox"/> Water Heaters |
| <input type="checkbox"/> All Types of Boilers | <input type="checkbox"/> Fire Pits |
| <input type="checkbox"/> Air Quality/Mold Testing | <input type="checkbox"/> Fireplaces (wood, gas, electric) |
| <input type="checkbox"/> Radon Testing/Removal | <input type="checkbox"/> Pool Heaters |
| | <input type="checkbox"/> Dust Control |
| | <input type="checkbox"/> Ice Melt |
| | <input type="checkbox"/> Electrical |

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Email: _____

Phone: _____ Best Time: _____