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Thermostats 101

Imagine living in the early 19th century. Fall is here and you've turned on your furnace. There's only one problem: your house keeps swinging from nippy to sweltering. And every time it goes too far in one direction, you have to patter down to the basement to adjust valves, dampers or the furnace itself.

What a drag! Fortunately, this changed with the invention of the thermostat.

How Thermostats Control Temperature

The basic way that thermostats control temperature is by sensing the space temperature and sending a signal to equipment to make changes until the temperature matches the set point.

How the thermostat does this depends on what it's connected to. For furnaces, the thermostat might

turn the fan and burner on to increase the temperature and turn it off when the temperature is just right. Air conditioning control works by turning on the fan and unit when the temperature gets too high. Some thermostats are connected to valves that open and close to allow hot water into a radiator when the temperature drops.

Types of Thermostats

Thermostats come in three flavors: programmable, non-programmable and smart.

Programmable thermostats allow you to save multiple set points for daytime, nighttime and weekends (depending on the thermostat itself). This allows you to save on energy when you don't need as much heating or cooling while you're at work, for example. A thermostat set to a lower temperature

Continued on page 2



Dan Goetz
\$100



Sharyce Green
\$50

Newsletter Winners

Thermostats 101

Cont'd from page 1

at night (known as night setback) is a common way to save on energy as well, without having to remember to manually turn down the temperature before bed.

Non-programmable thermostats are your basic manual thermostats that you set and change as needed. They can be dial type where you turn a dial to set the temperature, or digital. If you want to lower the setting on a winter's day while you're out of the house, you'll have to make sure you do it manually before you rush out the door.

Smart thermostats give you the benefits of programmable thermostats with added features. Many of them learn your habits and change settings according to your inputs and whether you're home or not. You can control the temperature in your home from an app so you save on energy when you're away but come home to a comfortable temperature.

Making the Right Choice

If you need help choosing the right thermostat, and installing it, give Climate Control a call and we'll help keep your home at that just-right temperature day and night, season after season.

Winter Word Find



T B S H W R H U J E Y G
 T A O N E O P N D K Z G
 Z M T T E G N E L A O U
 E K N S R T L S V L C F
 F I S A O S T H I F G B
 W R D Z M M L I E W H X
 J E O P F Q R C M O O H
 I C E S Y U A E I N L Y
 D L O C T L R M H S I R
 P M E O P Y W N O T D A
 D E C E M B E R A S A U
 V M R R M D O V H C Y N
 D I T E K N A L B A E A
 F J Y M L B J E T R H J
 C H I L L Y M M S F Z F

BLANKET
 CHILLY
 COLD
 COZY
 DECEMBER
 FIREPLACE
 FROSTY
 FURNACE
 HOLIDAY
 HOME
 ICE
 JANUARY
 MITTENS
 SCARF
 SLED
 SNOW
 SNOWFLAKE
 THERMOSTAT
 UPGRADE
 WINTER

Happy Holidays



Answer Key



E	Z	E	S	W	W	A	T	T	I	H	O
H	R	L	E	T	W	X	L	E			
V	E	V	T	V	N	K	E	L	I	D	
N	A	C	H	A	O	C	R	M	W	A	
U	V	S	V	R	E	B	E	C	E	D	
V	D	L	O	N	M	A	B	O	E	P	
R	I	S	H	W	R	T	L	C	O	T	
A	T	N	I	E	V	U	A	S	E	C	I
H	O	O	M	C	R	O	E	A	O	E	L
X	H	M	E	I	T	M	Z	C	R	M	
E	G	F	E	I	H	L	S	O	V	S	I
E	C	E	T	A	S	T	L	R	E	S	N
U	O	V	T	E	N	G	E	L	L	M	Z
G	Z	K	D	N	O	E	N	O	V	L	
G	A	L	E	R	H	M	H	S	S	E	L



Whole House Humidifiers



Dry air can cause respiratory problems and increased allergy symptoms for many people, especially in the winter. Dry air in your home can draw moisture out of porous materials like wood, including furniture, woodwork, wood floors, pianos and other musical instruments. It makes the air temperature feel cooler than humidified air, so you set your thermostat higher to reach the same comfort level.

A whole-house humidifier is permanently installed with your central heating and cooling system, it operates with a hygrometer to measure the humidity level and it automatically humidifies the air as your furnaces warms it, distributing it to every room through your duct work. It will monitor the humidity level, adding moisture only when it is needed and limiting the level of humidity to the setting you select.

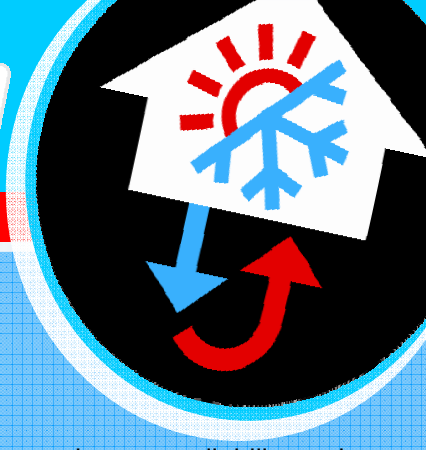
The even humidity maintained by a whole-house humidifier keeps the air you breathe healthier, no matter which room you are in. Dry air can exacerbate sinus problems and cause nose bleeds, and it can encourage the spread of some viruses that cause respiratory illness. Humidified air can help reduce snoring for some people, and it reduces chapped lips, dry throat and dry skin.

A whole home humidifier keeps your house more comfortable. Humid air feels warmer than dry air at the same temperature. The humidified, heated air allows you to keep your thermostat set several degrees lower while you enjoy the same comfort level throughout your home. A lowered thermostat helps you save money on your heating bill.

Maintenance on a whole-house humidifier should be done once or twice a year for most homes. Other than a few cents per month added to your water bill, the cost is minimal to have a whole home humidifier plumbed into your household water system.

Call Climate Control to see what humidifier options would be best for your home!

605-225-9822



Icy parking lots and driveways are a dangerous liability and traditional solutions such as salt and sand are messy and corrosive.

Climate Control has carefully selected two environmentally-friendly, non-toxic, and non-corrosive ice melt products. They work fast without a harsh odor and unlike salt or sand, our ice melt products won't cause damage to vehicles and won't be tracked into your home or business.

MeltDown Apex

Formulated for large areas such as parking lots and driveways

- Proactively acts as an anti-icer (applied before the storm)
- Can be applied up to 24 hours before the start of inclement weather.
- Superior "anti-bonding" properties aid plowing by reducing snowpack.
- Acts as a de-icer (applied after the storm)
- Penetrates snowpack and breaks the ice bond at the road surface
- Works at temperatures as low as -7°F.

MeltDown Absolute Zero

Granular product for usage in walking areas such as sidewalks

- Environmentally friendly, low-corrosion de-icing product
- Most effective granular de-icer at low temperatures
- Less corrosive and safer for concrete than other de-icing Products.

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

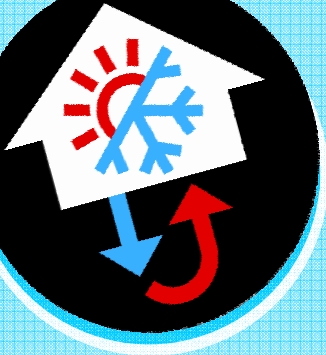
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HEATING & AIR CONDITIONING

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climatecontrolprofessionals.com



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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 1/8/2018 Mail to: Climate Control, 1910 130th St. NW, Aberdeen, SD 57401 or scan and email to info@climatecontrolprofessionals.com

1.) There are three types of thermostats, They are: _____,
_____ & _____

2.) A whole home humidifier operates with a _____ to measure the humidity level.

3.) Climate Control offers two types of _____, to help prevent slippery surfaces.

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: _____