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### DID YOU KNOW?



Studies conducted by the U.S. Environmental Protection Agency show that indoor environments can have levels of pollutants that are higher than outdoor air. [Click here](#) to find out more.

### MARKET TRENDS



## Energy Data on Data Centers



[Click here](#) to view a larger version of the image above with more information.

Data from the most recent Commercial Buildings Energy Consumption Survey (CBECS) shows that office buildings with data centers have significantly higher computing, cooling, and total electricity intensity (consumption per square foot) than office buildings without data centers.

Greetings!

The first day of Spring is next week, are your HVAC systems ready to combat the rising temperatures of the Spring and Summer ahead? Planning preventive maintenance checkups for the changing seasons is an excellent way to stay on top of facility management and help avoid costly equipment failures.

Call [Air Temp Heating & Air Conditioning, Inc.](#) today to schedule an appointment for our professional HVAC maintenance services and help prepare your facility for Spring!

## Spring Cleaning your HVAC

Spring cleaning isn't just for your closets and desks - making sure your facility's cooling systems are clean, well-maintained and properly functioning should be top of mind when the weather begins to warm up. Here's why:



- **Indoor Air Quality** - rising pollen counts combined with dust, mold or other harmful airborne materials can easily infiltrate your building if air filters are not regularly replaced and ventilation systems are not properly maintained. If these particles settle on system coils or ducts, they can create grime and grow mold or bacteria that affect air quality.
- **Performance** - A Southern California Edison report revealed dirty evaporator and condenser coils can reduce cooling capacity by as much as 40 percent. Inspecting for dust and grime, tightening and lubricating electrical components, and checking refrigerant levels ensures facility equipment is prepared to handle the heavy cooling loads of spring and summer.
- **Efficiency** - Clean HVAC systems are more likely to perform efficiently and less likely to waste energy. And don't let last season's thermostat settings waste energy during the Spring's milder climate, when altering operating hours and system settings can create energy savings.

## Cutting Energy Costs for Data Centers



**QUESTION:** With Spring literally in the air, what's the best way to prevent outdoor allergens from affecting my building's indoor air quality?

**ANSWER:** Outdoor allergens and dust are easily brought into indoor environments by ventilation systems, flawed building envelopes and even tracked in by building occupants. Poor maintenance or housekeeping makes it easy for them to stay inside. Properly installed and maintained air filters are the first line of defense against these pollutants, while comprehensive, preventive maintenance and building inspections can identify hazards to maintaining healthy IAQ.

**CONTACT US**

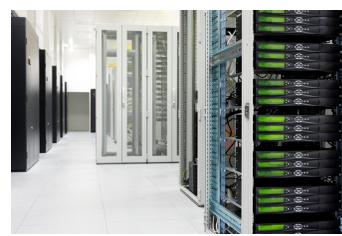
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Recent studies show that office buildings with data centers use significantly more electricity per square foot than office buildings without data centers. This difference can be due to a number of factors, from the electricity used to power the servers themselves to the extra cooling power needed to maintain the server rooms at consistent, set temperatures. Do you know how much energy your data centers use? How much of that energy could be saved every year by incorporating proven best practices for data center management or investing in new, energy-efficient technology?



ANSI/ASHRAE Standard 90.4-2016, [Energy Standard for Data Centers](#) offers performance standards that establish the minimum energy efficiency requirements of data centers for design and construction, to help facility managers create a plan for operation and maintenance. The Standard creates an open framework to encourage facility managers to incorporate any of the rapidly changing and improving technology available to meet data center needs. From computer room evaporative cooling technology - which is rapidly gaining in popularity - to high-efficiency DX systems, rack- and row-based cooling, variable-speed fan control or even just optimizing the equipment that is already in use by improving control and monitoring capabilities can create significant savings by reducing energy waste.