



AIR TEMP
HEATING & AIR CONDITIONING, INC.

HOT TOPICS & COOL SOLUTIONS

IMPORTANT INFORMATION FROM YOUR LINC SERVICE™ CONTRACTOR

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In This Issue

HVAC Market Grows in Size and Scope

HVAC in the Internet Era

DID YOU KNOW?



Minimum energy efficiency standards enacted by the Department of Energy (DOE) in 2014 are projected to save America's businesses and families \$78 billion in electricity bills through 2030, according to the [DOE](#).

MARKET TRENDS



Internet of Things (IoT)

THE INTERNET OF THINGS (IoT):

IoT is the interconnection of components and systems with the internet that enables devices to send and receive data over a network without human involvement.



According to market-research consultancy Memoori, the overall market for systems in buildings is **EXPECTED TO GROW** from an estimated \$111 billion in 2014 to \$181 billion by 2020.



IoT GROWTH WILL BE LED BY the physical-security, lighting-control and fire-detection-and-safety segments.



HVAC SYSTEMS that harness the IoT have the ability to predict future comfort and energy demands to proactively adjust to building and occupant needs as well as provide valuable information on building performance.

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Greetings,

The HVAC market is expected to show substantial growth in the next few years, with promising developments in energy efficiency and system integration leading this expansion. Are you ready to invest in the best, new technology guaranteed to save your company energy and money?

This month's newsletter highlights the growth of the HVAC market and how rapidly improving Building Automation System technology can help your business take advantage of the Information Age with improved energy efficiency and control of your HVAC system. Contact [Air Temp Heating & Air Conditioning, Inc.](#) today to see how we can get you started.

HVAC Market Grows in Size and Scope

A new report on commercial and residential HVAC systems conducted by BCC Research predicts that the market will grow from \$75.4 billion in 2014 to \$116.6 billion in 2019. This prediction reflects a five-year compound annual growth rate of 9.1%. A major reason for the predicted growth in the HVAC market is due to new HVAC technology innovations developed to increase energy-efficiency and to combat the effect the systems' emissions have on global warming and ozone depletion.

In particular, the emphasis on finding ever more efficient HVAC systems is pushing manufacturers to take new approaches to technology including ductless HVAC, district cooling and heating as well as Internet integration. Even HVAC systems are adapting to the "Internet of Things" trend, with data from advanced HVAC systems being collected and used to optimize operational efficiency as well as to help the systems predict future comfort and energy demands and proactively adjust themselves. There are sure to be many more exciting technology developments for

image, [here](#).

Q & A



QUESTION: Will turning up the thermostat make the office warm up faster?

ANSWER: A furnace does not produce more heat if you set the temperature higher; it just heats your building for longer periods of time. But forgetting to turn the thermostat back down after the desired temperature is reached can make the office uncomfortably warm, which can end up costing more money for no real gain.

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business owners as the market continues to grow in scope and efficiency.

HVAC in the Internet Era

Building Automation Systems (BAS), which control and monitor HVAC systems as well as numerous other facility systems, have been vastly improving and are increasingly embedded with computing and digital communications tools that give them the

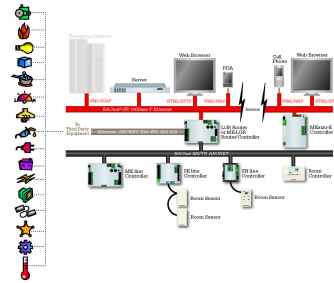


Photo courtesy of
Automated Logic
Corporation

ability to improve energy efficiency and enhance building occupants' comfort and health. The number of integrated Building Automation Systems (BAS) rises with new construction and building retrofits and is expected to reach \$86 billion by 2023, according to a recent report by Navigant, "[Commercial Building Automation Systems](#)."

BAS technology is advancing as a result of better sensor technologies, cheaper and faster communications and improved user interfaces. Manufacturers are beginning to embrace open protocols as well as Internet Protocol, which has opened the market to new companies to provide improved controls solutions. While BASs become more integrated, it is becoming more common for controls of HVAC, lighting, fire and security controls to have the ability to directly communicate with each other. The growth of this market as well as the ever improving technology offerings mean that you, the building owner, can take advantage of improved energy efficiency, occupant comfort and facility management with integrated, user-friendly HVAC solutions that are becoming more effective and economical every year.