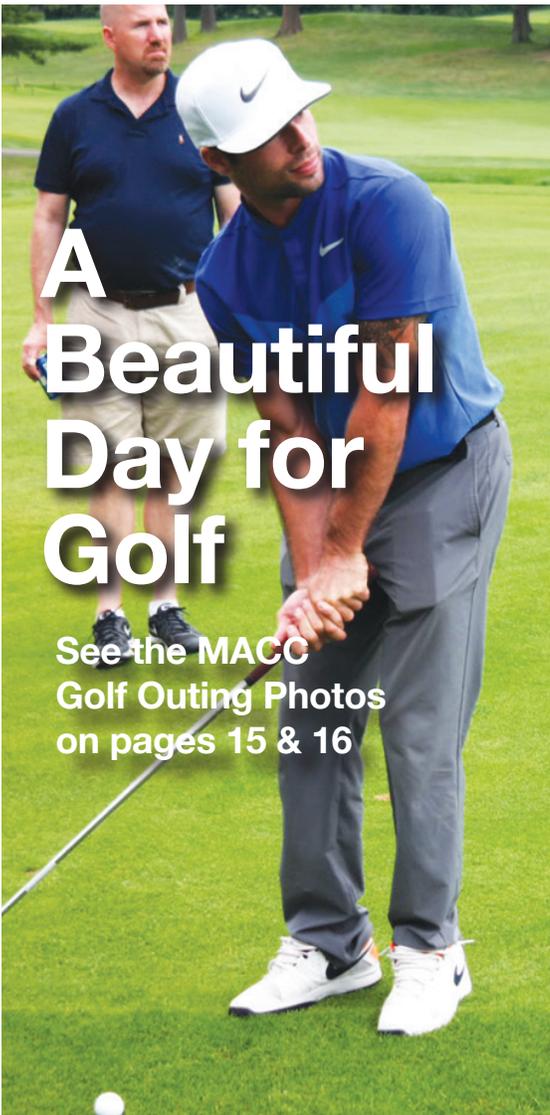


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FALL 2017 Volume 1



A Beautiful Day for Golf

See the MACC Golf Outing Photos on pages 15 & 16

Thursday, November 2, 2017 MACC Round Table Meeting



Cocktails 6-7 PM: Dinner: 7-9 PM
The Mansion at Oyster Bay
One South Woods Road, Woodbury, NY 11797

From the President...



Brian Aull
Atlantic Contracting &
Specialties

The summer is over and the Fall's cooling temperatures are upon us. MACC's Annual golf outing was a great success with an excellent turnout. It seemed to be the right call postponing the event due to rain being in the forecast. We couldn't have asked for a more perfect day with the weather that we got (see the photos on pages 15 and 16). I would like to thank the golf committee for putting together such a great event. I know they put in a lot of hard work and planning.

- Brian



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Editor's Notes by Anthony N. Carbone

Efficiency Efficiency Efficiency

You have to laugh at efficiency when it comes to gasoline vehicles. We seem to all be sitting in traffic constantly running a gasoline engine to wait on an antiquated traffic system.

With the removal of tolls and the congestion of traffic due to the magnitude of cars in a robust economy, no matter how small the engines become with enhanced turbo charged devices the engines are still burning gasoline.

Who is really getting involved when traffic tie ups are concerned? If a construction site occurs on the road hours and hours of time are wasted with idling engines.

The problem is even with traffic light failures and backed up traffic no one really cares. There is no 311 number or local precinct or department or transportation agency that will react to respond to the problem. So drivers curse, swear, scream, fight, and nothing gets resolved.

The traffic light system is unresponsive. In this day and age, if no one is at the other light, is it necessary to sit and wait 60 seconds for no reason? Well, with the fact that you can easily get a ticket for going through a light with cameras, and you can easily get a ticket for going to fast past a school with a speed camera, why is it impossible to regulate the traffic with smart lights?

What is your opinion regarding this perplexing situation?

— Anthony N. Carbone

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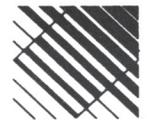
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Johnson System Helps Customers Be More Productive

The new Metasys® 9.0 building automation system from Johnson Controls offers substantial enhancements to the Metasys product line, including two new IP/Ethernet-based controllers and user interface (UI) features that make finding critical information and resolving issues easier than ever.

Because the two new BACnet® IP field equipment controllers communicate on Ethernet IP networks, they support increased network performance and bandwidth and enable easy integrations. They also help reduce customers' total cost of ownership of their Metasys system, by sharing IT networking assets and infrastructure and by future-proofing the BAS network wiring with Ethernet cabling. Both are BTL-listed as BACnet Advanced Application Controllers (B-AAC), include a real-time clock for internal scheduling, alarming and trending, and support star and daisy chain network wiring topologies.

"Metasys 9.0 is the product of talking with, listening to and observing building operators who used earlier Metasys releases," said Don Albinger, vice president and general manager, Global Controls, Johnson Controls. "With this release, we've responded to requests for a personalized system that matches operational styles and needs, and a system that is

even easier to operate, readily accessible and quick to provide information. The result is an enhanced Metasys system, which delivers increased productivity, operational savings and reduced installation costs."

The enhanced UI includes a Building Network feature, which provides access to all objects defined under the Metasys component hierarchy for a familiar navigation and status experience. The Building Network view requires no configuration, resulting in a faster delivery of the Metasys UI. Another enhancement—Advanced Search and Reporting—allows Metasys operators to quickly search for data, create reports and issue bulk commands, making it easier than ever to get critical data out of the Metasys system and to restore order.

Custom Dashboards enable personalization of the Metasys UI—by widget and device type—to match varied operational styles for enhanced operator productivity. In addition, Custom Behaviors provides Metasys UI designers the flexibility to use custom symbols and images to match individual building or enterprise needs or local standards. These new features enhance the already powerful capabilities of the Metasys UI, such as its groundbreaking ease of navigation, mobile-friendly HTML5 design and modern, photo-realistic graphics.

To learn more about Metasys 9.0, please visit <http://www.johnsoncontrols.com/buildings/specialty-pages/metasys-release>. For additional information about Johnson Controls, visit www.johnsoncontrols.com.

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Siemens Adds Flow Sensors To Its Symaro Product Line

The new flow sensors in the Symaro product line of the Siemens Building Technology Division are suitable for use with liquids and air and establish a solid foundation for the energy- and cost-efficient control of entire HVAC installations.

The new vortex flow sensors for liquid media are available in versions made of fiberglass-reinforced plastic and red brass and offer high accuracy. These sensors contain no moving parts, which makes them insensitive to contamination and highly resistant to media. The results are a long life cycle and optimum long-term stability.

The new flow switches made of fiberglass-reinforced plastic are supplied with a brass pipe section and have a reed contact. The latter responds contactlessly via a magnetic field without a return spring, which keeps the switching point stable. The switches operate within a pressure range of up to 10 bar and without bellows. The switching point is therefore independent of pressure and dependent only on the volumetric flow. The flow switches are especially suitable for monitoring the flow of liquid media in hydraulic systems such as chillers, heating systems or heat pumps. •Both the flow sensors and flow



switches are available in the four nominal sizes of DN 10, DN 15, DN 20 and DN 25. The sensors thus cover flow rate ranges from 1.8 to 150 liters/minute. They can be used universally in drinking water, heating water and common water/glycol mixtures as well as within a broad range of temperatures. All devices are available in the output variants DC 0 – 10 V or DC 4 – 20 mA or switching contact outputs.

The QVM62.1 air velocity sensor covers the measuring ranges of 0 – 5, 0 – 10, and 0 – 15 m/s. It has a specially developed thin-film sensing element, which makes it largely independent of the inflow direction and practically insensitive to dirt. This sensor is also available in the output variants DC 0 – 10 V and DC 4 – 20 mA.

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Carrier Introduces New Pairing for Higher HVAC Efficiency

Ductless outdoor unit single zone paired with multifamily indoor fan coil leads to greater efficiency

Multifamily facility managers now have a new way to achieve higher climate control efficiency through a new, innovative Carrier product pairing. Carrier's 24-volt interface will achieve greater energy efficiency by combining a variable-speed, single-zone outdoor unit with an indoor fan coil. Carrier, a world leader in high-technology heating, air-conditioning and refrigeration solutions, is a part of UTC Climate, Controls & Security, a unit of United Technologies Corp.

The new pairing achieves maximum energy efficiency by combining a ductless single-zone outdoor unit with a multifamily indoor fan coil, matched with a 24-volt interface and the Côt® thermostat or another compatible third-party thermostat.

"The Carrier ductless team is committed to finding unique solutions to meet our customers' needs for any type of structure so we're extremely excited to introduce this kit and be able to deliver greater efficiency to our multifamily customers," said Meredith Emmerich, managing director, Carrier, ductless and variable refrigerant flow. "Our sales and engineering teams are working closely every day to find new solutions to climate control challenges and we're confident this kit will serve the multifamily industry well."

This new pairing is available in a kit from Carrier that includes the 24-volt interface as well as detailed instructions on how to install the pairing.

The pairing can significantly increase the efficiency of the fan coil, with ratings reaching up to 18 SEER (Seasonal Energy Efficiency Ratio) and up to 12 HSPF (Heating Seasonal Performance Factor). There is a separate power requirement for the indoor unit and the outdoor unit while auxiliary heat control is available via the thermostat.

Learn more by visiting www.carrierductless.com •



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Your Website And ADA Compliance

Many companies in the air conditioning industry are developing more robust websites as part of their marketing and business plans. When creating a commercial website, a company has a number of concerns and priorities, such as functionality, design, and search engine optimization. One consideration that is often overlooked, however, is whether the site will be accessible to the disabled. In view of a recent federal court decision, businesses may want to start focusing more on that factor, or risk violating the Americans with Disabilities Act.

In *Gil v. Winn-Dixie Stores, Inc.*, a federal district court in Florida found that the supermarket chain Winn-Dixie had violated the Americans with Disabilities Act (ADA) by failing to make its website accessible to the blind. The plaintiff, a visually impaired man, had sued Winn-Dixie under the

ADA because he was unable to access store coupons or refill prescriptions on the store’s website. He complained that the website was not compatible with screen-reader software often used by the visually impaired, thus denying him the full and equal enjoyment of what Winn-Dixie offered to sighted customers.

The court, following a non-jury trial, agreed. Finding that the store’s website is “heavily integrated with Winn-Dixie’s physical store locations and operates as a gateway to the physical store locations,” the court held that the ability to access digital coupons and online pharmacy services are “services, privileges, advantages, and accommodations” that the plaintiff had been denied due to the site’s incompatibility with screen-reader software. The court further found that Winn-Dixie had not shown that making the website accessible to the blind would be unduly burdensome.

Although the Winn-Dixie case did not address employment- or HR-related aspects of the supermarket’s website, it is certainly conceivable that the rationale used by the court could be applied to such factors. For example, if a site has a “careers” section on which job postings are displayed, or through which candidates can directly apply for a position with the company, that section should be accessible to the disabled.

In light of the Winn-Dixie decision, employers would



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be prudent to review their websites to ensure that they are compatible with screen-reader software and thus fully accessible to the visually impaired.

If you have questions about website accessibility under the ADA, please contact me. •

TRANE Unveils Look at Rigorous Testing Methods

Trane® has unveiled a new brand campaign that signifies its growth and transformation over the last century. The new campaign, titled “Tested to Run,” highlights the rigorous testing methodologies and hard-working engineering teams that are as hard to stop as its

products.

Created in conjunction with Young & Laramore, an independent creative agency, the “Tested to Run” campaign provides consumers and residential dealers an inside and never-before-seen look at how Trane uses its labs and facilities to push the boundaries of performance and reliability when manufacturing and testing its equipment. The creative assets will give a glimpse into how the brand puts each unit through extreme testing prior to launch, including its Seasonal Extreme Environmental Testing (SEET) lab, where products endure 16 weeks of bone-chilling cold and blistering hot weather.

The campaign, launched nationally in September, includes TV, online video, radio, print, social media, and digital banners. •



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Trane Introduces XR16 Low Profile Side Discharge Air Conditioner Designed For Difficult-To-Access Or Tight-Space Applications

Trane has announced the availability of its XR16 low profile side discharge air conditioning unit for split ducted systems. This high-performance, low-profile unit features a side discharge, making it ideal for difficult-to-install applications or in tight space requirements where vertical discharge units prove less than optimal.

“The introduction of the Trane XR16 low profile air conditioner enhances and diversifies our offering. It also expands the installation applications with the same reliability and durability that residential contractors have been asking for and homeowners have come to expect from Trane,” said Jim Lowell, product manager for air conditioners, Trane.

Assembled in Tyler, Texas, it is available in 1.5 through 5-ton sizes. It is designed for challenging applications including: zero lot-line situations, multi-family housing and condominium units and row houses. The XR16 is also ideal for applications on roof tops, under decks or anywhere else where space constraints make vertical discharge units

impractical. The draw-through design ensures that air is not recirculated and dirt and debris are not drawn into the unit staining the home or building.

The unit features a seasonal energy efficiency rating (SEER) of up to 17 and meets all national energy efficiency requirements. Each unit is built with a Climatuff™ compressor, tube and fin coil with refrigeration grade copper tubes and enhanced aluminum fin surface to maximize heat transfer, and an integrated fan system with leading edge swept blade design to improve airflow, enhance performance, and reduce sound levels which range from 70 to 73 dBA.

The XR16 low-profile side discharge unit also features a 10-year registered limited warranty on the compressor, outdoor coil and all other internal functional parts and a five year base warranty on the compressor, coil and all other internal functional parts.

A heat pump version will be available later this year. •

September meeting

survive & thrive

IN THE HVAC INDUSTRY



On September 7th Robert Kroll, president of TA Mechanical Group and Tom Scarangelo, general manager of Scaran HVAC led the Survive & Thrive discussion sharing HVAC war stories and tips during this latest in the MACC series.

Danfoss Variable-Frequency Drives Receive AHRI Certification

VLT HVAC drives certified under AHRI Standard 1210/1211 for stated efficiency and performance

Danfoss received the Air-Conditioning, Heating, and Refrigeration Institute’s certification for variable-frequency drives, confirming the performance of its VLT HVAC drives based on rating standards.

According to AHRI, certification under Standard 1210/1211 enables equipment users to make informed, reliable decisions about variable-frequency drives. To receive certification, VFDs are rigorously tested according to three standard rating conditions, including efficiency at various speeds and loads, drive-generated harmonics at full load and speed, and peak voltage and rise time.

“We are pleased to offer our customers the assurance of independent AHRI certification, which sets a high bar for reliability and accuracy in the industry,” said James Kluck, senior product marketing manager, Danfoss. “As the first to engineer a variable-frequency drive dedicated for HVAC applications, Danfoss is committed to

helping equipment manufacturers and building owners enjoy the benefits of better, more reliable control and energy efficiency through VFDs — reducing costs, meeting energy standards and even enabling utility rebates to be secured.”

Engineered specifically for the unique needs of HVAC pump, fan, and compressor applications, the drives enable optimized process control to reduce energy consumption, meet environmental targets and significantly reduce costs in today’s buildings.

Featuring an easy-to-use design with built-in intelligence, the AHRI Certified drives are fast and cost-effective to commission, and ensure maximum uptime even in harsh environments. A compact design and efficient heat management system make them ideal for applications where space is restricted. With the intelligence built into the drive to precisely maintain the exact flow required using the four auto-tuning, multi-input, multi-control PIDs, users experience the control and comfort expected.

Available enclosures include NEMA/UL Type 1, 12, 3R and 4X, with coated circuit boards providing an extra layer of protection. Integrated DC chokes and RFI filters safeguard installations by minimizing harmonic distortion and electromagnetic interference. •



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Statement From Stuart S. Zisholtz, Esq.

Contract Terms and Conditions

Every AIA contract contains terms for termination for cause. In addition, many contracts between a general contractor and a subcontractor, when not using an AIA contract, include terms pertaining to termination for cause.

When terminating a contract, the contractor must adhere to the specific terms of the contract. Failure to abide by the specific terms could be detrimental to the contractor, even if the contractor had legitimate reasons for the termination.

The courts have ruled in favor of subcontractors after general contractors failed to abide by the specific terms set forth in the contract. For example, instead of serving a 7-day written notice before terminating the contract for cause, a general contractor served a notice seeking immediate termination. The Appellate Court found that

the general contractor failed to properly terminate the contract and was held accountable for damages.

In that case, the subcontractor got lucky in that the general contractor failed to abide by the specific terms and conditions of the contract. Even though the general contractor may have had legitimate grounds for termination for cause, it failed to abide by the specific conditions precedent associated with termination for cause.

As I mentioned many times in previous articles, it is essential that you understand the terms and conditions of the contract. Failure to abide by the specific terms and conditions may result in the court ruling against you.

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