

# **MACC***News*

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CONTRACTORS OF NEW YORK**

**THE VOICE OF HVACR IN NEW YORK, NEW JERSEY, CONNECTICUT AND LONG ISLAND**

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**SPRING 2017 Volume 2**



**MACC Comedy Night  
Photos and article on pages 14, 15**

**METROPOLITAN AIR CONDITIONING  
CONTRACTORS OF NEW YORK (MACC)  
Formerly Air Conditioning Contractors Association - NY Chapter  
123 South Street, Suite 112  
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516-922-5832 / [www.maccny.org](http://www.maccny.org)**

## From the President...



**Brian Aull**  
*Atlantic Contracting &  
Specialties*

**M**ACC just hosted their annual cocktail party at Union Prime Steak & Sushi. As always it was a great networking event amongst our peers in the industry. The unseasonable 90 degree weather kept the party inside but that did not take away from the event. It was nice to see some familiar faces.

The next planned event for MACC is "Take me out to the Mets" Friday June 2nd at Citifield which is always a fan favorite. Hopefully the Mets can dig their way out of their early season slump.

Hope to see you soon.

— **Brian**

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## Editor's Notes

by Anthony N. Carbone

**T**he Networking Event at Union Steak & Sushi was a great success, with many contractors, manufacturers, and supply affiliates mingling and exchanging ideas and strengthening relationships. Many who did know one another had a chance to speak and find common ground.

The hors d'oeuvres were abundant and gourmet. We were surprised at how many attended, even though the thermometer hit 94° degrees. An early start to summer, as this was the second small hot streak that woke up many to turn on their air conditioning units.

Some of the attendees were Justin Renna, from Blackman, Al Ayulo, new regional account manager of Unitary Products group of Johnstone Controls handling the York product, Mario Fuschetti of the Wallwork Group, Steve Bergman of Twinco as well as many private contractors.

This was one of our best networking meetings planned for our membership. The exchange of ideas and the topical information is the best in the industry. Never discount the power of MACC and the knowledge gained by being a part of our industry organization.

— Anthony N. Carbone



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## LUX Products Integrates Smart Tips into the LUX App to Help Homeowners Save Money and Energy

LUX Products Corporation has announced a new Smart Tips feature as part of its LUX App that automatically sends seasonal tips to homeowners on ways to help save energy. The Smart Tips feature offers general tips as well as proactive suggestions based on the user's behavior on how to best save money and be more energy efficient. These year-round recommendations help consumers manage their wallet as well as their energy usage. Smart tips are integrated into the LUX App and used with the LUX/GEO smart thermostat.

Smart Tips is a learning feature that pop-ups actionable ways for homeowners to take advantage of energy and financial savings when it comes to home comfort. These Smart Tips include recommendations such as how reducing daytime temperatures from 69 degrees to 67 degrees can save consumers between 6% and 8% on their cooling bills.

"Our goal is to continually enhance and upgrade our products so consumers have better control over their home comfort," said Rob Munin, president and CEO at

LUX. "SMART Tips is another way we make it easy for homeowners to save energy & money while maintaining control of their comfort." To learn more about LUX Products, visit [www.LUXProducts.com](http://www.LUXProducts.com). •

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## Fujitsu General Introduces New, Smaller Airstage VRF System

Fujitsu General has added to its J-Series Airstage VRF line with introduction of the smaller J-IIS series. The J-IIS avails variable refrigerant flow technology for smaller residential, multi-housing and light commercial uses with equipment now available in 3 and 4 ton sizes.

The larger J-II VRF series – introduced earlier with 3, 4 and 5 ton sizes – helped to bridge the gap between its Halcyon multi-zone systems, and larger VRF technology. The J-IIS further enhances the offering with its compact size.

The J-IIS' shorter height provides easy installation in smaller spaces, or when condensing units are stacked vertically. Also, the J-IIS provides significantly higher efficiency than equivalent single-fan VRF systems.

Both J-II and J-IIS equipment are single-phase Airstage VRF products. Both are designed for superior energy efficiency, provide great year-round comfort, and are easily installed.

Also, both of the J-II and J-IIS are used in the same applications and with the same types of controls. The J-Series VRF systems offer up to 19.8 SEER and 11.4 HSPF, significantly exceeding other equivalent VRF products and rooftop units of comparable size.

Installers can connect up to eight indoor units to each

condensing unit and choose from 11 indoor-unit styles to create individually zoned comfort for any size, space or decor. Indoor units range in size from 7 kBtu to 46 kBtu. Fujitsu General's VRF controls offer additional energy savings and comfort features, including scheduling, sleep timer, economy operation and automatic season changeover. •

## Carrier Introduces Improved Water Source Heat Pump Controller

Carrier is releasing the newest version of its water source heat pump (WSHP) open controller, a factory-installed direct digital controller for many of its water source heat pump systems.

This newest WSHP controller delivers increased efficiency, improves dehumidification and reduces sound output at part-load levels. Carrier, a world leader in high-technology heating, air-conditioning (HVAC) and refrigeration solutions, is a part of UTC Climate, Controls & Security, a unit of United Technologies Corp. (NYSE: UTX).

A key feature of the WSHP open controller is independent fan speed control, which modulates fan speed to match space conditions. When used in conjunction with constant-torque electronically commutated motor fans, energy savings of up to 70 percent can be achieved, as compared to the standard model.

"Carrier recognizes the growing demand for sustainable solutions, like those found in water source heat pumps, and has invested in technologies that will drive even greater efficiency as well as improve dehumidification," says Chris Opie, director, marketing, Carrier Commercial Systems. "When you couple these improvements with the reduced sound, this revamped water source heat pump system will deliver an even stronger performance."

The WSHP open controller with independent fan speed control is available as a factory-installed option on select ½- to 6-ton Carrier commercial WSHPs and is compatible with most building automation systems, including the Carrier i-Vu® system.

"Carrier is proud of our commitment to lead the industry and will continue to invest in critical technologies to provide heating and cooling products that meet the demands of our customers while promoting sustainability," says Opie.

Customers interested in learning more about this new product can contact their local Carrier expert or visit [www.carrier.com/commercial](http://www.carrier.com/commercial). •



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## Ingersoll Rand on Fortune World's Most Admired Companies List

Ingersoll Rand was recognized for the fifth consecutive year as one of the World's Most Admired Companies according



to Fortune Magazine. Ingersoll Rand ranked second in its category of Industrial Machinery.

The survey measures nine attributes related to financial performance and corporate reputation.

To build the list, Fortune collaborated with Korn Ferry Hay Group. To determine the best-regarded companies in 51 industries, Korn Ferry Hay Group asked executives, directors, and analysts to rate enterprises in their own industry on nine criteria, from investment value and quality of management and products to social responsibility and ability to attract talent. A company's score must rank in the top half of its industry survey to be listed. •

## ASHRAE and Institute of Refrigeration Sign Agreement of Understanding

ASHRAE and the Institute of Refrigeration (IOR) have signed a new Memorandum of Understanding (MoU) formalizing the organizations' relationship, which dates back more than a century.

The new MoU outlines how the two groups will work together more closely and with more defined parameters to continue furthering and promoting the advancements of cooling and heating related technologies. These include but are not

limited to research; joint conferences and meetings; training and education programs; publication distribution and chapter collaboration.

"Strengthening our relationship with IOR is a natural and obvious decision. Both organizations are committed to harnessing and adapting new technologies and research to create a future where the built environment is healthier, more comfortable and more energy efficient," says ASHRAE President Tim Wentz, Fellow ASHRAE, HBDP. "The strides our organizations are making to produce a more sustainable world are exciting, and both ASHRAE and IOR are well poised to support each other's objectives immediately and moving into the future. We are pleased to formalize our relationship with this MoU and look forward to continuing a long association with IOR." •

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# People & The Workplace

By Alan B. Pearl,

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## Effective Date of the New York Paid Family Leave Act Looms Ever Closer

As many New York employers are already aware, last year New York State enacted a comprehensive paid family leave law. The New York Paid Family Leave Act (NYPFLA) will go into effect on January 1, 2018. As of that date, employees in New York will be eligible for wage replacement during leaves of absence taken to bond with a new child, to care for a close relative with a serious health condition, or to handle certain situations arising from a family member's call to active military duty.

While January 1, 2018 may still seem like a long way off, employers should take full advantage of the time remaining to prepare for compliance. To assist in this preparation, we have collected our responses to the most frequently asked questions we have received from clients regarding the NYPFLA.

### *What employers are covered under the law?*

The NYPFLA's requirements will apply to all employers with one or more employees in New York.

### *What employees are eligible to take paid leave?*

Any full-time employee who has been on the job for 26 consecutive weeks is eligible. Part-time employees become eligible for leave on their 175th day of work.

### *For what purposes can an employee use paid leave?*

Employees may use the leave as maternity/paternity leave – i.e., to bond with the employee's child during the first twelve months after the child's birth or the first twelve months after the placement of a child for adoption or foster care with the employee. The leave can also be used to partic-

ipate in providing care, including physical or psychological care, for a family member of the employee due to a serious health condition of the family member. In addition, the leave can be used because of any qualifying exigency arising out of the fact that the employee's spouse, domestic partner, child, or parent is on active military duty (or has been notified of any impending call or order to active duty).

### *How much leave is an eligible employee entitled to?*

Starting January 1, 2018, employees will be permitted up to eight weeks of leave. Starting January 1, 2019, that amount will increase to 10 weeks, and as of January 1, 2021, it will increase to 12 weeks.

### *Do employees receive their full salaries during a leave?*

No, employees are entitled only to partial wage replacement, the amount of which will increase over a period of several years after the law's effective date. On January 1, 2018, employees on leave will be entitled to wage replacement equal to 50 percent of their weekly wage or, if less, 50 percent of the state average weekly wage. That percentage will increase annually for three years as follows: 55 percent in 2019, 60 percent in 2020, and 67 percent in 2021.

### *Are employers expected to pay foot the bill for this paid leave?*

Employers will not be required to pay wage replacement to employees on leave out of their own pockets. Rather, the payments will be funded via small paycheck deductions applied to the wages of all New York workers. The New York State Superintendent of Financial Services is scheduled to set the maximum employee contribution amount on June 1, 2017. Employers are to begin collecting the weekly employee contribution on July 1, 2017.

### *How is the NYPFLA different from the Family and Medical Leave Act (FMLA)?*

The most obvious difference is that leave under the NYPFLA is paid, while FMLA leave is unpaid. But there are numerous other differences, including the following examples: NYPLA applies to all New York employers, even those who are not covered under FMLA due to having fewer than 50 employees within 75 miles of a work site. FMLA provides twelve weeks of leave, while NYPLA will not provide twelve weeks until January 2021. Of course, these are only a few of the many differences between the two laws. Generally speaking, employers should be aware that the two laws are not interchangeable, and what applies under one may not be applicable under the other.

As New York employers gear up to comply with the NYPFLA, please contact me with any questions you may have about the new law. •



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## Commercial Buildings Need to Prepare Now to Beat the Summer Heat

*HVAC technologies that enable reduced energy costs and higher occupant satisfaction during summer's peak demand days*

With summer's hot and humid temperatures just around the corner, now is the time for commercial buildings to make preparations to beat the heat. Heating, ventilating, and air conditioning (HVAC) costs account for 44 percent of energy



consumption in all U.S. commercial buildings and a whopping 53 percent in U.S.

office buildings, according to the 2012 U.S. EIA Commercial Buildings Energy Consumption Survey (CBECS) – and with warmer temperatures on the horizon, greater energy consumption is required to cool the outside air coming into a building, resulting in higher costs.

Traditionally, indoor air in commercial buildings is replaced with outside air every one to two hours to prevent high concentrations of indoor pollutants. While the process helps limit these pollutants, the high volume of outdoor air must be cooled to maintain comfortable temperatures and humidity inside the building during the summer months. At the same time, extra outside air flow to maintain air quality can result in some areas of the building getting too cold, sparking an increase in complaints from occupants. This problem is further exacerbated in buildings with higher occupant densities than they were originally designed for – a common trend such as with open-plan office buildings.

With this in mind, mechanical engineers, building owners and facilities managers are now seeking HVAC technology solutions that use less outside air to ventilate a building, thereby boosting energy efficiency, saving on costs, and maintaining air quality to keep occupants comfortable.

One solution, HVAC Load Reduction® (HLR®) technology, cleans and recycles the indoor air instead of constantly replacing it with outside air – complying with ASHRAE Standard 62.1 IAQP. In doing so, HLR technology decreases the outside air intake required to ventilate a building by 60 to 80 percent. It also reduces peak HVAC capacity, resulting in 20 to 30 percent energy savings and up to 40 percent lower utility demand charges, particularly important during summer's peak demand days when electricity costs can skyrocket. Using less outside air extends the life of air filters, reduces water consumption, and will help postpone HVAC equipment replacement. Moreover, with HLR technology, buildings can invest in lower-capacity and less expensive HVAC systems, and benefit from decreased maintenance costs.

ArcBest, a multibillion-dollar logistics business, is one company that has seen a decrease in energy costs and increase in occupant satisfaction by installing these innovative technologies.

"I previously got calls from people that they were cold during the summer, which was a direct result of having to introduce so much chilled air into the building to meet the appropriate CO2 levels," said Richard Rieske, Director of Corporate Facilities at ArcBest. "Likewise, they felt drafts during the winter due to all the outside air that was being used to ventilate the building. When enVerid's HLR modules are running, our people are more comfortable."

Solutions like the HLR system also enable increased visibility through Internet-of-Things (IoT) capabilities that provide 24/7 monitoring and management of a building's indoor air quality, temperature, and humidity. These real-time insights into air quality and comfort allow for more proactive management of buildings to help reduce energy costs and will keep occupants comfortable and happy all summer long.

For more information, please visit [www.enverid.com](http://www.enverid.com). •



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## ***Statement From Stuart S. Zisholtz, Esq.***

### **Statute of Limitations**

We should all be familiar with the term "Statute of Limitations". The rationale behind the concept of the Statute of Limitations is that if you sit on your rights long enough, they go stale. If you have a contract and the contract is broken, the law gives you six years in which to sue. If by the end of the six years you still have not done so, you are out of luck. It is unreasonable to expect somebody to keep documents available for more than six years while you sit around deciding whether to sue.

There are other Statute of Limitations. A negligence claim has a three year Statute of Limitations. A claim for goods sold and delivered has a four year Statute of Limitations. A claim for libel and slander has a one year Statute of Limitations. A claim under a payment bond usually has two years, but sometimes has only one year.

The purpose of this article is not to give you an educa-

tion on the various Statutes of Limitations, but to call your attention to a possible trap.


Sometimes, an owner will modify the contract and give you a one year Statute of Limitations. This can be seen occasionally in public contracts and has recently been found in private contracts.

Recently, the Appellate Division threw out a claim by a contractor against the Dormitory Authority because of a shortened Statute of Limitations. The Court found that the contractor was a sophisticated individual and agreed to the various terms of the contract. As a result, he forfeited his ability to pursue a claim against the Dormitory Authority as a result of the shortened Statute of Limitations.

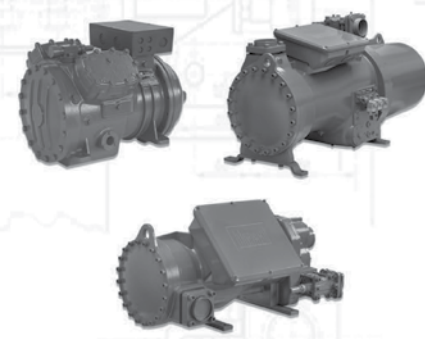
I am calling your attention to this unscrupulous clause in contracts that could spell the end of any legitimate claim. Be alert, read your contract and know the terms.

Never let your lien time run out!

For a free copy of a pamphlet pertaining to Mechanic's Liens and payment bond claims do not hesitate to contact me or the Association. •




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## ACCA Publishes New Technical Bulletin on Refrigeration Line Sizing

ACCA, the Indoor Environment & Energy Efficiency Association, announces the release of ACCA Technical Bulletin 2017-1 (entitled Commercial Refrigeration Line Sizing). It is available through ACCA to its members at [www.acca.org/techbulletins](http://www.acca.org/techbulletins).

This Technical Bulletin discusses the advantages, disadvantages, procedures, and results of proper line sizing in commercial refrigeration systems (e.g. supermarkets, convenience stores, cold storage warehouses, etc.). This Technical Bulletin addresses line sizing for the following line types:

- Compressor discharge line;
- Liquid line;
- Suction line (and suction riser).

The refrigerants addressed are: R-22; R-134a; R-404A; R-407A; R-407C; R-448A; R-507C; and R-449A. Saturated suction temperatures range from -40°F to +40°F and the saturated condensing temperatures range from +50°F to +135°F; in increments of 10°F. The "equivalent line lengths" of the refrigerant tubing is at: 50', 100', 150', 200', 250', and 300'.

Large lines have more copper, and therefore, more weight and correspondingly higher cost per foot. Additionally, larger diameters are more difficult to braze and require longer assembly times. However, lines that are sized too small will result in increased pressure drops, which will raise energy usage, while providing negative impact on equipment life expectancy and performance.

Comments and questions can be submitted to Danny Halel, ACCA's manager of standards at [danny.halel@acca.org](mailto:danny.halel@acca.org).



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## MACC Comedy Night — More Than Just A Barrel of Laughs!

Comedy night proved to be more than just a barrel of laughs! The atmosphere and unique location of Fujitsu's Airstage made the evening a night to remember by all who attended. For those who could not make the



*At left: Chris Crean (left) of Wales Darby and Brendan Casey of Fujitsu give an overview of equipment on display.*

*Below: One of the great NYC views from the Fujitsu Airstage*

event, I highly recommend checking out this venue.

The ability to see Fujitsu's newest technology in a penthouse overlooking Times Square was a novel concept that is quickly gaining popularity with professionals across the industry. One of the leading sales engineers who helped bring this concept to fruition, Brendan Casey, was kind enough to speak with us before the event. The thought was that engineers could come in and see "equipment on display and operational." He discussed how the single-phase unit "bridges the gap between residential and commercial systems." Brendan also went into detail on the popular VRF systems which "use refrigerant as the cooling and heating medium much like the mini-split systems." "We welcome all contractors, engineers and buyers to come in and try the equipment for themselves," says Brendan. Appointments can be made on their website at [www.theairstage.com](http://www.theairstage.com).

The night of the event we were able to inquire about the products on display and received a quick overview before our comedian took the stage.

According to Brendan, the mini split and VRF systems are widely popular in countries like Japan which have high energy costs. "By operating at varying speeds, VRF units work only at the needed rate allowing for sub-

stantial energy savings. Heat recovery VRF technology allows individual indoor units to heat or cool as required. En-

ergy savings of up to 55% are predicted over comparable equipment. This also results in greater control of the building's interior temperature by the occupants." While these type of systems comprise less than 5% of the current residential units in the US, they are expected to gain momentum as customers continue to look for energy efficient alternatives.

We want to thank our partners at Fujitsu for helping with this membership event. Their hospitality and professionalism was greatly appreciated by our contractor and associate members. We look forward to collaborating on more events in the future. •











# SUMMER SEMINAR 2017

## COMPRESSOR MAINTENANCE & REPAIR

### COURSE DESCRIPTION

The compressor is considered to be the heart of the HVAC system. It provides the force that moves the refrigerant through the cycle and it raises the pressure of the refrigerants so that the heat absorbed in the evaporator can be transferred again at the condenser. It is important to understand compressors and to know how to service and troubleshoot them. Improper servicing can result in serious damage to the compressor, and incorrect problem diagnosis can result in unnecessary replacement task.

8 HOUR PROGRAM

June

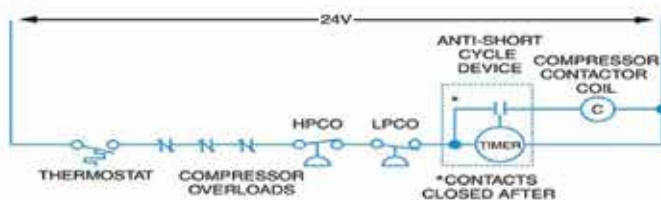
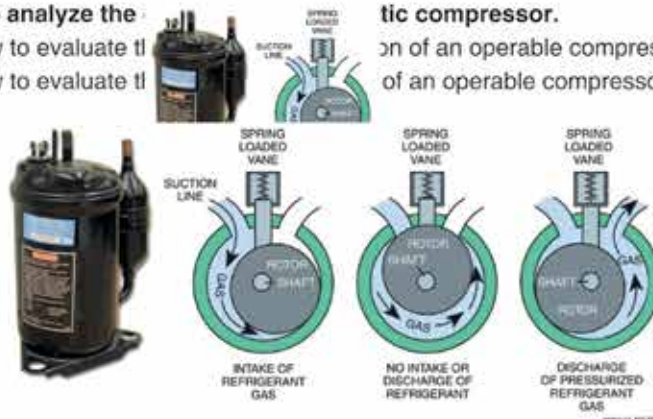
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SATURDAY

8:00 AM - 4:00 PM

### WHAT YOU WILL LEARN

- **Identify and describe the operation of various compressor types.**
  - Identify and describe the operation of reciprocating compressors, various hermetic & semi-hermetic compressors, rotary compressors, scroll compressors, screw compressors & centrifugal compressors.
- **Identify and describe various approaches to compressor capacity control.**
  - Identify and describe capacity control methods for reciprocating and scroll compressors.
  - Identify and describe capacity control methods for screw and centrifugal compressors.
- **Describe common compressor failures.**
  - Describe compressor failures related to the refrigerator circuit.
  - Describe compressor failures related to electrical issues.
- **Identify and explain the operation of various compressor protection devices.**
  - Identify and explain the operation of various overload devices.
  - Identify and explain the operation of other compressor protection devices.
- **Explain how to analyze the operation of an operable compressor.**
  - Explain how to evaluate the operation of an operable compressor.
  - Explain how to evaluate the operation of an operable compressor.



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