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Industry News



California



Fieldpiece Takes **Home Silver Award** in NEWS Contest

Orange, Calif. - Fieldpiece Instruments, the leading manufacturer of professional-grade tools for HVACR pros by HVACR pros, has once again been recognized for excellence in product design in The NEWS Dealer Design Contest. This year, Fieldpiece won the Silver Award for the Job Link® System Dual Port Manometer in the Testing and Monitoring Products Category.

An independent panel of contractors acted as judges in the contest that had 117 entries. The ACHR News is a national trade magazine in the heating, ventilating, air conditioning, and refrigeration industries. NEWS Publisher Mike Murphy stated,

"These awards give us a unique opportunity to recognize the outstanding research and development efforts that go into many of the products serving the HVACR industry and the awards issue gives our readers an opportunity to read about innovative installation and service solu-

The revolutionary JL3KM2 Job Link® System Manometer probes give HVACR pros the freedom to work the way they want to - unrestricted by hoses, so technicians get readings from optimal locations on every system, every time. The Job Link® System works wirelessly from up to 1000' away and the HVACR technician will look professional and give customers confidence of a job well done with pre- and postreporting. They can also retrieve system performance data from the last service date for quicker assessment.

"We're proud to be recognized by the contractors who judged the products in the Testing and Monitoring Category," said Rachel Newport, Director of Marketing for Fieldpiece.

For more information about the Job Link® System Dual Port Manometer, please visit: https://www. fieldpiece.com/product/jl3km2-joblink-system-dual-port-manometerprobe-kit/.

Gryphon Investors Acquires Wittichen Supply Company

San Francisco - Gryphon Investors announced that it has acquired Wittichen Supply Company. This represents the second investment closed by Gryphon's Heritage Fund. Financial terms of the transaction were not disclosed.

General Manager Charles Herring, who has been with Wittichen for 48 years, will become president of the company, and will continue to work closely with the existing management team.

"Wittichen is a 100-year-old brand with a strong culture and exceptionally loyal employee and customer base," said Craig Nikrant, Gryphon operating partner on the Heritage Fund Team. "We look forward to partnering and supporting the Wittichen management team in their next phase of growth by leveraging Gryphon's in-house Operations Resource Group and Human Capital Team to enable further investment in its business

and employees."

'We are excited to welcome and partner with the Gryphon team as we build on our recent growth and look to the future," said Herring. "We are experiencing steady demand for product repair, maintenance, and improvements. We expect that demand will continue in a post COVID-19 environment that is driving greater need for high-quality, safe air filtration. We look forward to servicing our existing and new customers with the same great team, supported by the added resources provided by our new partner."

"My goal is to leave the Company, our employees, customers, and suppliers in the best hands. I feel confident that we have found the best partner in Gryphon," said David Henderson, outgoing president of Wittichen. "Our business has been built on providing a premium service and customer experience and that will not change. Gryphon's financial resources and operational know-how will be invaluable as Wittichen builds on its geographic expansion and continues to look for the most innovative ways to serve our loyal customers."





Harris Named to Top Workplaces Regional Lists

Phoenix, Ariz. - Two regional offices of Harris have been named to the list of 2021 Top Workplaces. Its Las Vegas office made the list of Nevada Top Workplaces and its Phoenix office was named to The AZ Central Top Workplaces list.

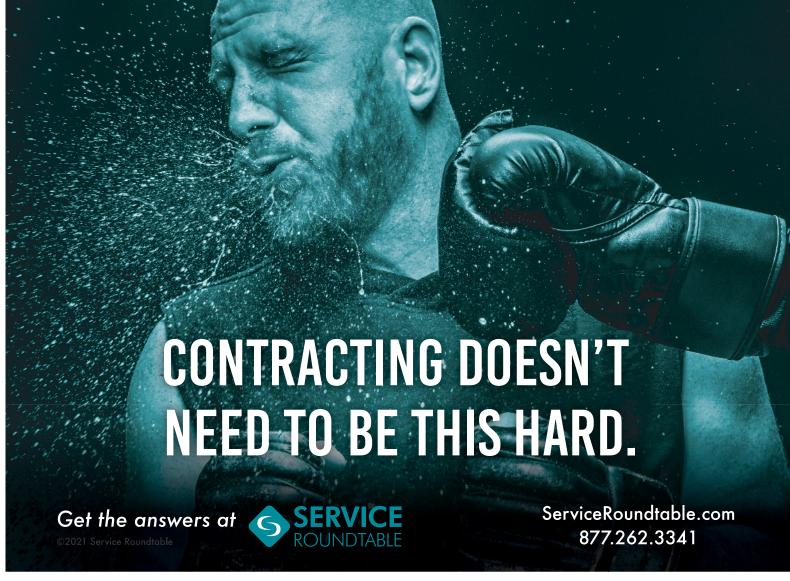
This is the second year in a row that Harris' Las Vegas location has received this honor. Out of hundreds of entries, only 42 Nevada workplaces qualified for the list. The Las Vegas Review-Journal and Las Vegas Business Press partnered with third-party research firm Energage LLC. For the Arizona honors, 110 Phoenix workplaces made the list. The AZ Central partnered with Energage for its rankings as well.

"This was an exceptional year - one that required businesses across the country to adjust to extraordinary circumstances," said Las Vegas' Doug Lea, senior vice president and general manager, Harris. "Our workforce is the heart of our office. They're a strong group of collaborators who care deeply for each other. Throughout this past year, the team adapted and continued to serve our customers every step of the way."

"It's an honor to receive this recognition as it spotlights organizations with strong employee connections and a sound culture of success," said Phoenix's Kelly Gantverg, general manager, Service and Building Automation, Harris. "Businesses across the country needed to adapt this past year and ours did. We have a team of collaborators who put our customers first and care about each other. We're really proud

"On behalf of all Harris, we congratulate our Las Vegas and Phoenix teams," said Devlin, senior vice president, Human

of this group."



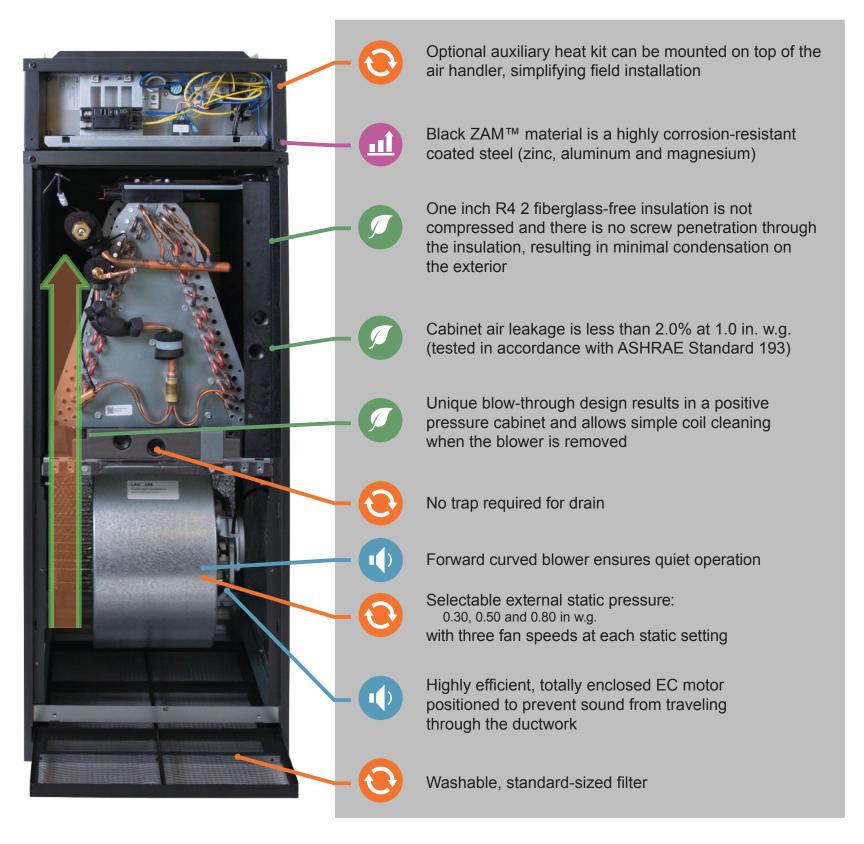
Continued on Page 6

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Up to 18.0	SEER	Up to 21.4	
Up to 13.6	HSPF	Up to 11.2	
Up to 4.2	COP	Up to 4.1	



Industry News

Continued from Page 4

Capital and Business Support. "This acknowledgement is especially gratifying as the recognition comes directly from our employees, which is such an important benchmark as we continue to make Harris a destination workplace across the country."

Harris was named to the Energage list of 2021 Top Workplaces USA earlier in the year.

Rite Way, University of Arizona Form Partnership

Tucson, Ariz. – The University of Arizona Athletics department recently announced a new multi-year

agreement with Rite Way Heating, Cooling & Plumbing. The company will become an official HVAC corporate sponsor for the University of Arizona Athletics through the 2024 season.

"Arizona Wildcat Sports Properties and Arizona Athletics are excited to welcome Rite Way Heating Cooling & Plumbing to our family of corporate partners," said Joe Moeller, general manager for Learfield IMG College. "We look forward to working with their customer-focused team and connecting them with our loyal team of Wildcat fans."

In connection with the sponsorship, Rite Way will have a significant presence at Arizona Stadium and McKale Center via on-field and in-arena signage as well as in-game announcements. In addition, Rite Way will also sponsor the half-time blimp at McKale Center. The sponsorship will see cross promotions with University of Arizona Athletics, including hospitality benefits during the upcoming football and basketball seasons.

"We're thrilled to be working with Arizona Athletics for the next three years as an official corporate sponsor," said Rick Walter, president of Rite Way. "We're a local company that is built to serve the people of Tucson and we're excited to be connected to our hometown team."

With the recent announcement, Rite Way joins a number of other brands and current partners of The University of Arizona Athletics, including Cheez It, Coca-Cola, and Nextiva, among others.

.

TEXAS

Daikin Teams Up with Gold Medalist Mary Lou Retton

Houston, Texas – Like a 400-meter relay squad, a major marketing initiative from Daikin North America LLC (Daikin), a subsidiary of Daikin Industries, Ltd. (DIL), the world's #1 manufacturer of heating and cooling products, is sprinting out of the blocks this summer. An-



DAIKIN SPOKESPERSON AND OLYMPIAN MARY LOU RETTON.

choring this marketing initiative from Daikin is a nationally televised ad campaign featuring a legendary gold medalist spokesperson. Plus, Daikin has teamed with The Weather Channel, providing exclusive Daikin Air Quality Index alerts broadcast throughout the country.

Carrying the baton for Dai-kin's extensive media campaign is one of the most celebrated athletes ever – gymnast Mary Lou Retton, winner of five medals during the 1984 summer games. Retton will help relay Daikin's new brand message, "Perfecting the Air We Share," during integrated broadcast and digital content created by Comcast-NBC for the summer games.

Driving home the brand message is a new television ad campaign, covering both the U.S. and Canada, for "Perfecting the Air We Share." The :30- and :15-second television ads will air on several networks, including NBC, CNN, Fox, ESPN, USA, Discovery, Lifetime, History, TNT, FX, Canada's CTV and others which started mid-July.

"Introducing Daikin to a broader audience, starting during the summer games in Japan and beyond, is a tremendous opportunity for the company, our distribution chain and our contractors," said Taka Inoue, Executive Vice President and Chief Sales and Marketing Officer. "We realize that now is the right time to invest as more contractors are searching for ways to differentiate themselves and consumers are searching for high efficiency, connected systems and indoor air quality improvements. Daikin's leadership in technology and product development has recently provided Daikin contractors with products such as Daikin Fit, Daikin One ecosystem and accompanying Daikin One+ smart thermostats, providing

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Daikin contractors opportunities to revolutionize the future of residential HVAC systems in North America."

On The Weather Channel, Daikin's new brand message ties seamlessly to the network's new Daikin Air Quality Index segment, featured nationally every Monday morning and extended into specific air quality forecasts for 33 markets throughout each day. The exclusive, new segments will run through March 2022.

"The awareness of how incredibly important air quality truly is to our overall health has dramatically increased over the past year," said Marc Bellanger, Director of Marketing and Communications for Daikin. "As a leader in provid-

ing state-of-the-art HVAC and indoor air quality (IAQ) solutions, such as our Daikin One ecosystem line of IAQ products, we want to help educate and inform everyone as to what their actual, local community outdoor air quality is, and how Daikin can help monitor and control the quality of air inside their homes where it is most important."

All the campaign elements, televised and digital, feature co-branding opportunities and customer lead generation components for Daikin's independent HVAC contractor network. For example, The Weather Channel's Daikin Air Quality Index tailored to local markets and Mary Lou Retton's NBC summer games segments will be co-branded by local Daikin contractors.

For more about Daikin, visit www. NorthAmerica-Daikin.com.

Service World Expo Set for Sept. 21-24

Coppell, Texas – Service World Expo officials announced the home service contracting expo will be held in Louisville, Kentucky, on September 21-24. The Expo will feature Gino Wickman, author of Traction: How To Get A Grip On Your Business and founder of the Entrepreneurial Operating System (EOS), for both a keynote and a workshop.

Attendees will be able to network with friends and colleagues at three parties. The first will be held at the Peterson-Dumesnil House on Tuesday, September 21, at 6:30 PM. The second party will be a themed

"Off to the Races" costume party at the Louisville Palace Theater on Wednesday, September 22, at 6:30 PM. Finally, a party will be held at the iconic Churchill Downs for a racing event on Thursday, September 23, at 5:00 PM. Parties are included in the expo registration for no additional charge.

"The immersive aspect of being at a conference, I think it ramps up your learning, it ramps up your comprehension," said Tom Peregrino of Daffan Cooling and Heating in Granbury, Texas. "I've seen people get motivated and inspired by just one moment in a conference, they get fired up, they re-engage, re-inspired, and that's what's really cool to see. You just can't duplicate that; Zoom can't duplicate that. You can't get some of these pivotal emotional organizational changes

without conferences like Service World Expo. There's something magical about getting away from your company, recharging your battery, and really working on what's happening in your organization."

NATIONAL



Bryant Names Charles Bryant Award Winners

Indianapolis, Ind. – Bryant has announced that Chapman Heating | Air Conditioning | Plumbing of Indianapolis; Redmond's Complete Comfort of Beech Creek, Pennsylvania; and Welsch Heating & Cooling of St. Louis, Missouri, were named the 2021 Charles Bryant Award winners. This is the first time in the award's history that three dealers have earned this distinction in the same year. Bryant, a leading supplier of heating, ventilating, and air conditioning (HVAC) equipment, is a part of Carrier Global Corporation (NYSE: CARR), a leading global provider of healthy, safe, sustainable and intelligent building and cold chain solutions.

The Charles Bryant Award, named for the company's founder, recognizes loyal Bryant Factory Authorized Dealers (FADs) that epitomize the characteristics of Charles Bryant, including professionalism, quality, reliability and community spirit.

Jeff Chapman, President, Chapman Heating | Air Conditioning | Plumbing, said, "It's always an honor to get another recognition for our employees that really do all the heavy lifting. This award recognizes our people that make us who we are and it's always an honor to represent my employees and my team."

Brian Redmond, Owner, Redmond's Complete Comfort, stated, "Being honored with the Charles Bryant Award is a real pleasure. We would like to thank our customers, our distributor Peirce Phelps, Bryant and our entire team for always providing greatness and doing

Continued on Page 10

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OCTOBER



Webinar NATE Core & Gas Heating Training

Instructors: Mitch Bailey / TBA Wed., Oct. 20 – Part 1 Thurs., Oct. 21 – Part 2 Wed., Oct. 27 – Part 3 Thurs., Oct. 28 – Part 4

NOVEMBER



Webinar NATE AC/HP Refrigeration Air Distribution Training

Instructors: Mitch Bailey / TBA Wed., Nov. 3 – Part 1 Thurs., Nov. 4 – Part 2 Wed., Nov. 10 – Part 3 Thurs., Nov. 11 – Part 4

Webinars are FREE of charge and online registration is required.

You can register online by visiting: pge.com/hvactraining. Attendees must register for each night separately and registration is on a first-come, first-served basis.

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NEVADA

Industry News

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whatever it takes."

Butch Welsch, President, Welsch Heating & Cooling, said, "I am extremely proud to receive the Charles Bryant Award. Bryant's core values match those of our company and that has encouraged us to team with them. That is also why this award means so much to me."

"We're pleased to present this year's Charles Bryant Awards to our three winners," said J.T. Holtschlag, Vice President, Sales and Marketing, Carrier. "The Charles Bryant Award honors those Bryant FADs that embody all the qualities that have made our brand what it is today. These three businesses have truly made a positive impact in their communities

and are model organizations in the heating and cooling industry."

For more information about Bryant, visit www.bryant.com.

METUS Launches Virtual Showroom

Suwanee, Ga. – Mitsubishi Electric Trane HVAC US (METUS), a leading supplier of Ductless and Ducted Mini-split and Variable Refrigerant Flow (VRF) heat-pump and airconditioning systems, announces the launch of an interactive and immersive virtual showroom for their line of residentially-targeted air-conditioning and heat-pump products. The showroom enables distributors, contractors, and end users in METUS' International

region – Mexico, Central America, Bermuda, select areas of South America and the Caribbean – to remotely browse the different inverter technologies in a photorealistic, 360-degree environment.

METUS worked with ByondXR retail tech startup company to create a virtual showroom with the goal of expediting HVAC buying while eliminating the need for travel and reducing overall expenditure. "The idea was born in the middle of the COVID-19 pandemic as a mechanism to continue promoting our products and bringing people closer together," says Gina Larrea, residential sales, international business unit, Mitsubishi Electric Trane HVAC US. We want customers to learn basic product information and to see the full range we have available."

Visitors can navigate the virtual

MOON MELIES NA RECTING TRANE

MITSUBISHI ELECTRIC TRANE HVAC US RECENTLY LAUNCHED ITS VIRTUAL SHOWROOM.

showroom to view products up close, download catalogs, and watch new-product videos. Visitors can also interact through live chat and email to gather insights and information about METUS distributors and their locations.

The adoption of digital technologies has served as a crucial component in maintaining revenue stream,

brand awareness, and increased exposure, especially while the pandemic impacted supply chain and manufacturing processes.

"ByondXR has helped us create a unique and engaging shopping experience," Larrea added. "Their team embraced the challenge of learning a new industry and successfully executed our vision."

To view the showroom, visit https://byondxr-viewer.byondxr.com/launcher/1.0.43/index.html?experienceId=15Pkbp.

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Johnson Controls Invests \$15M to Upgrade Lab

Milwaukee, Wisc. – Johnson Controls has upgraded the testing lab facilities at its residential HVAC manufacturing plant in Wichita, Kansas. The nearly \$15 million investment includes the addition of seven test chambers, automated testing and model shop equipment, and a new building, which adds 2,000 more square footage, bringing the plant's total testing facilities to 100,000 square feet total.

The following lab updates optimize the testing process:

- Seven 20 x 60-foot test chambers
- A new automated heating lab and test stands
- Advanced model shop equipment
- A spacious transit table building with rain capabilities

"When visitors tour the lab, they are simply overwhelmed by the extensive steps that we take to ensure each and every system developed in the labs are tested to ensure performance and reliability," said Doug Dorrough, director of lab operations, Johnson Controls. "The greater efficiency and unprecedented quality we can now achieve with this major investment will bring our premier products to market sooner and provide homeowners with enduring

Continued on Page 12



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Industry News

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comfort and peace of mind."

The upgrades coincide with new efficiency standards, including the 2023 Department of Energy (DOE) efficiency standards and environmental sustainability requirements, including the Environmental Protection Agency's (EPA) low-global warming potential (GWP) refrigerant transition that will be required of all HVAC equipment manufactured by January 1, 2025. The expanded lab will better accommodate product development and testing schedules to ensure that each product meets or exceeds all requirements.

Johnson Controls will continue to invest in and expand the testing facilities in Wichita over the next several years with new equipment and additional facilities to accommodate new product development and testing.

ACCA Launches Marketing Masters Awards Program

Alexandria, Va. – The Air Conditioning Contractors of America (ACCA) launched its newest awards program, ACCA's Marketing Masters Awards.

The awards are broken into five categories:

- Traditional Media Print
- Traditional Media TV or Radio
- Connections through Social Media
- Connections through Digital

or Mobile Marketing

• Rolling Marketing – Vehicles Each category will honor three contracting companies - with a gold, silver, or bronze designation - that exhibit creativity, clarity, and effectiveness of each of the programs/promotions. The companies that receive the gold designation in each category will compete head-to-head for the Elite Marketing Master Award, which will be selected by ACCA Conference attendees during ACCA's 2022 Conference & Expo taking place March 28 - 30, 2022, at the St. Louis Union Station Hotel in St. Louis.

"ACCA loves to showcase contractors who are innovative and working to shine a positive light on our essential industry to the public," said Barton James, ACCA

president and CEO. "The new Marketing Masters Award gives ACCA the unique opportunity to highlight some of the best contracting companies in the country for their work."

"Given RYNO's 14 years of reputable digital marketing for HVAC contractors all over the US, it made sense for us to partner on this program," said Chris Yano, RYNO Strategic Solutions CEO. "We've been a part of and seen some of the most successful, creative, and progressive marketing campaigns with contractors of all sizes. Our core competency is lead generation through digital marketing, but giving back is a core value of ours and this award allows us to do just that for the industry we love."

Any contracting company, regardless of ACCA membership status, who is engaged in the creation and use of marketing to promote an

HVAC contracting business is eligible to apply for and win a Marketing Masters Award. Advertising agencies may submit entries for contracting companies, however, since this is a contractor award, the contracting company will be awarded for the entry if chosen as the winner in any category. Marketing campaigns and merchandising events held between January 1, 2020, and December 31, 2020, are eligible and one entry may be submitted to multiple categories.

There is an application fee for each category, which you will be billed for upon submitting the application. The application fees are as follows:

- First category \$69 (\$99 for non-members)
- Each additional category \$39 (\$69 for non-members)

To learn more and to submit a Marketing Masters application, visit www.acca.org/members/awards/marketing-masters. The deadline to apply for the Marketing Masters Awards is November 30, 2021.

Unified Group Addresses Safety Culture at Annual Directors Forum

Broadview, Ill. – In June, members of The Unified Group gathered from 12 different states to attend the 2021 Safety Directors Forum – the group's first in-person networking event since the start of the pandemic. Attendees met at The Hotel Contessa in Texas after months of virtual meetings.

Gary Glader of The Horton Group, based in Orland Park, Illinois, began the forum with a presentation on improving the safety culture within organizations by creating positive relationships with employees. His topics included general contractors and safety, aging workforce issues/solutions, and OSHA compliance. Later, members broke into smaller groups to talk about their own safety cultures and share best practices. Robert Fisher of Air Comfort Corporation ended the first day's session by sharing information on stress in the workplace.

On day two of the forum, Dave Ude of Air Controls and Scott Martello of Intech Mechanical discussed how they

Continued on Page 14

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Industry News

Continued from Page 12

instill safety values in new hires while Dawn Bridges of Wiegmann Associates and Dennis Gardner of Johnson & Jordan Inc. discussed their safety communication within and outside of their organizations.

"Getting this amount of knowledge present in one room and professionals who are willing to share is amazing," said member Brian Scott of Mechanical Service & Systems Inc.

Additional topics discussed during the second day's session included fleet safety, training processes, and the benefits of Paychex software as part of a workplace safety solution.

On the last day, Paul Benson of Midstate Energy/Veregy demonstrated the value of SiteDocs for Safety and Project Documents computer software for his company. Erica Peet of VHV Company said her company's reinstated safety committee has been effective for overall performance, and Johnny Lucas of Cullum Mechanical Construction gave details on his training program for equipment users.

Diversity in the workplace rounded out the topics discussed, and members had the opportunity to reveal their personal experiences and gain insight on ways to cultivate and support a more diverse environment.

.

Rheem to Acquire Friedrich AC

Atlanta, Ga. - Rheem has announced its intent to acquire Friedrich Air Conditioning from Monomoy Capital Partners.

"Friedrich has steadily innovated its residential and commercial offerings and grown its market share," said Mike Branson, president, Global Air at Rheem. They will bring a unique air conditioning product portfolio along with specialized products to the Rheem family of brands. Friedrich's product offerings, company history and industry expertise make this acquisition a perfect fit for Rheem. Together, we will harness the power of our talented workforce and enhance our ability to deliver reliable and energy-efficient products that our customers and contracting partners expect."

Upon the close of the acquisition - which is subject to additional regulatory approval – Friedrich will be a standalone business unit within the Rheem Global Air busi-

RIDGID Tour Kicks

Elyria, Ohio – RIDGID®, a part

portfolio, has taken its successful

RP 350 Press Tool Tour global, making stops in Belgium, Den-

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Italy, Romania and the United

Kingdom. As part of the tour,

plumbers are testing the RP 350 on

job sites and sharing their experi-

ences on Instagram®. The global

and concludes in September in

During the U.S. tour, 10

plumbers tested the RP 350 over

the course of seven months, shar-

ing their insight and excitement

about the advanced, long-running

press tool that's built for the most

response to the RP 350 U.S. tour,

it's exciting to expand the tour and

see similar reactions from plumbers

globally," said Michael Provenzano,

global marketing director, press

connections, RIDGID for Em-

erson. "The trade professional is

always at the heart of every tool

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loves to hear how our latest tools

outperform their expectations on

remarkable and the ease to use it

even one-handed makes it valu-

The speed of this press tool is

the job site."

"After seeing the positive

demanding job sites.

Romania.

tour kicked off in Germany in May

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Eight Countries

I've used," said George DeJesus, owner of George's Drains LLC Press Tool Tour. "Sometimes I need to be able to press in tight it possible. I really appreciate RIDGID for believing in me to be one of the first people to try out this tool." Introduced by RIDGID last

able beyond the other press tools

less motor eliminating scheduled motor service intervals for less downtime, a 360-degree swivel head and the most advanced LED interface and lighting. It is ideal for making connections on residential, commercial and industrial jobs; is compatible with the full line of RIDGID jaws and rings; and offers maximum versatility, pairing with the RIDGID Press Booster, StrutSlayr™ Strut Shear Head and the Press Snap™ Soil Pipe Cutter.

Emerson's professional tools business, which includes RIDG-ID as well as the Greenlee® and Klauke® brands, provides the industry's broadest portfolio of advanced, reliable tools and technologies for the mechanical, electrical and plumbing trades globally. Visit emerson.com/professionaltools for more informa-

and headliner in the U.S. RP 350 spaces and the 360° rotation with the super bright LED light makes year, the RP 350 features a brush-

Danfoss Seeking EnVisioneer of Year Award Nominations

.

Baltimore, Md. - Danfoss has announced it is now accepting entries to its twelfth annual EnVisioneer of the Year award competition.

Launched in 2010, the competition recognizes North American original equipment manufacturers (OEMs), building owners, municipalities, contractors, and end users that have introduced a new product, opened a new facility, or invested in a building or system upgrade in the past 18 months using Danfoss products or solutions to realize significant energy and environmental savings.

Interested participants may enter the competition by submitting a nomination by October 15, 2021. Applications will be reviewed and selected by a panel of third-party judges representing various disciplines.

Recent winners of the EnVisioneer of the Year program include Sheridan College (Oakville, Ontario); Arctic Cool; Multistack and Escambia County School

District (Pensacola, Florida); Delfield; Smardt Chiller Group; and EMCOR Services Mesa Energy Systems (Irvine, California).

Arcline Investment Management to Buy **Dwyer Instruments**

.

Michigan City, Ind. - Arcline Investment Management announced that it has acquired a controlling stake in Dwyer Instruments from the Clark family and management.

The Clark family and the Dwyer team have built a strong brand with market-leading sensor and instrumentation solutions for process automation markets," said Arcline. "We believe the company's differentiated products position is well to serve the growing trend toward greater process automation, connected devices, and improved indoor air quality and energy efficiency. We are excited to partner with management to steward the business in its next phase of growth."

"From early in the process, it was clear that Arcline understood our business and would be a tremendous fit to carry on the Dwyer legacy," said Steve Clark, chairman of Dwyer. "I could not be happier with the outcome and look forward to following the growth of the business in the future."

Pacific Northwest Contractors Can Earn Extra for Installations

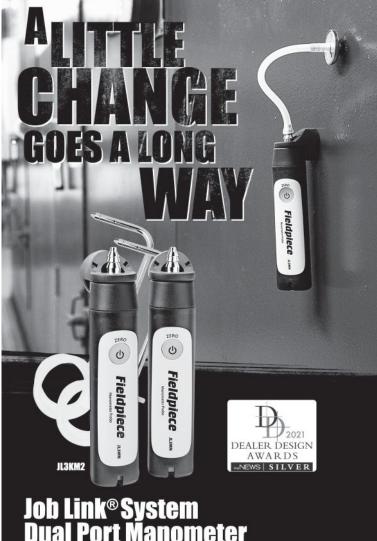
Portland, Ore. – Until April 30, 2022, contractors in the Pacific Northwest can earn an additional \$500 for every heat pump water heater they install.

The effort is part of Bonneville Power Administration's Comfort Ready Home program, which provides tools for utilities and contractors to grow the number of weatherization and energy-efficiency upgrades installed in homes across the Northwest. Comfort Ready Home connects contractors with homeowners looking for energy-saving products.

To participate, contractors must be licensed in their state, enrolled in the Comfort Ready Home Residential Contractor Network, and install a water heater on the BPA Qualified Products List in a Single-family or manufactured home in a participating utility's

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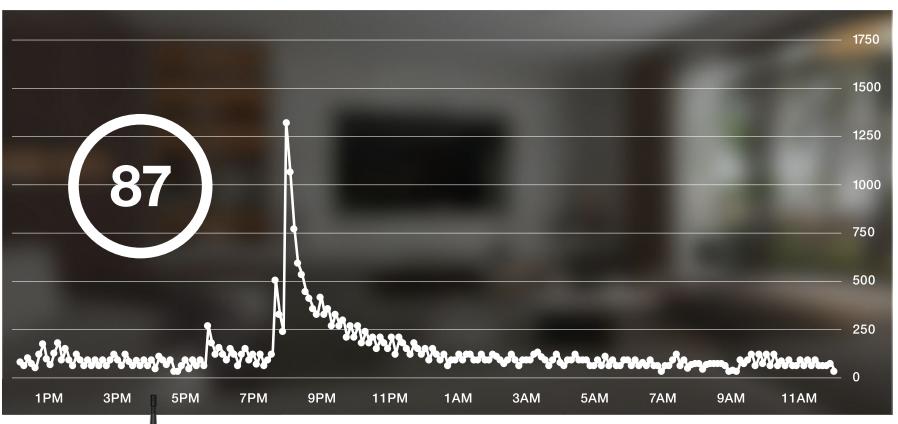
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Industry News

Continued from Page 14

territory. (The program covers Oregon, Washington, Idaho, and small parts of California, Nevada, and Montana.)

Contractors will also receive a water heater-specific marketing toolkit and virtual training from a Comfort Ready Home outreach specialist. Learn more about by visiting https://comfortreadyhome.com/contractors/.

Budderfly Signs Agreement with Lennox HVAC

Shelton, Conn. – Budderfly, the fastest-growing firm in the North American Energy-Efficiency-as-a-

Service (EEaaS) market, announced the company has partnered with Lennox International (NYSE: LII), a global leader in the heating, ventilation, air conditioning, and refrigeration markets. The nationwide agreement allows Budderfly to quickly scale its no upfront cost HVAC replacement program with the addition of Lennox $^{\circ}$ Model $L^{^{\text{\tiny TM}}}$, an ultra-high efficiency rooftop unit, as well as expert service and maintenance on Lennox and other HVAC brands. For information on Budderfly's HVAC replacement program, please visit www.budderfly.com/landing/hvac-contact.

"Budderfly's EEaaS is truly unique in the industry, and our Model L rooftop unit is the perfect complement to enable them to replace inefficient HVACs that cost their customers thousands of wasted dollars in bloated energy bills," said Stephanie Leslie, National Account New Business Development Manager, Lennox Commercial. "We are proud to partner with such a progressive organization making it easy for companies to upgrade their environmental infrastructure and reduce their carbon footprint."

The Lennox partnership is part of Budderfly's multi-component energy optimization program created in part to service national accounts in industries such as assisted living facilities, community centers, offices, quick service restaurants, retail locations, universities, and other vertical markets with multiple locations. Under the agreement, these types of companies eligible for HVAC upgrades will receive – at no upfront cost – new HVAC units and a dedicated Lennox support team for each

of their locations.

"Many of our customers inherit old HVAC units through their lease agreements and are left to fend for themselves when it comes to service and maintenance," said Al Subbloie, CEO, Budderfly. "The Lennox Model L rooftop unit allows us to bring the lowest HVAC total cost of ownership with the highest impact on efficiency and sustainability to our customers through a no-hassle installation program, so they can concentrate on growing their businesses. We've been impressed with Lennox' support for the partnership and excited to see new and existing customers' interest in our HVAC program has exceeded expectations."

For more information about the Model L, visit https://www.lennox-commercial.com/.

Greenheck Group Honored by American Legion

Middleton, Wisc. - Greenheck Group, a world leader in manufacturing air movement, control, and conditioning products for commercial, institutional, and industrial use, was honored to accept the 2020 American Legion Large Employer of Veterans Award. The award was presented to Greenheck Group team members at the American Legion, Department of Wisconsin 102nd Convention held Friday, July 16 in Middleton, Wisc. The company is one of the leading employers of veterans in not only Wisconsin, but all their locations throughout the United States, with more than 400 team members having served in the military, making veterans more than 10% of Greenheck Group's total number of team members. The company was founded in 1947 by Bob and Bernie Greenheck after both served and returned home to Wisconsin from World War II. Their commitment to the employment and support of veterans has been a priority from the beginning.

Brian Funfar, vice president and chief information officer, and Luke Bird, sales application engineering specialist, accepted the award from Department Commander, David Wischer. Both Greenheck Group team members are veterans and strong leaders in the company's veterans' initiatives. According to Angela Chappell, The American Legion, Department of Wisconsin, Greenheck Group was nominated for the national honor by American Legion, Montgomery-Plant-Dudley Post 10, Wausau, Wisc. Chappell added, "These are national awards given annually to employers for their efforts to ensure the economic well-being of veterans of Wisconsin."

"Greenheck Group hires military veterans because those with military experience consistently show they have attributes that align with our company values," said Jim McIntyre, CEO of Greenheck Group. "Highly skilled, motivated, and committed to quality, our veterans have a proven record of integrity and professionalism. We are honored to be among those companies receiving this award."

For more information, visit www.greenheck.com.





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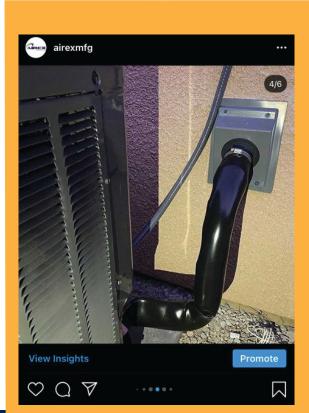
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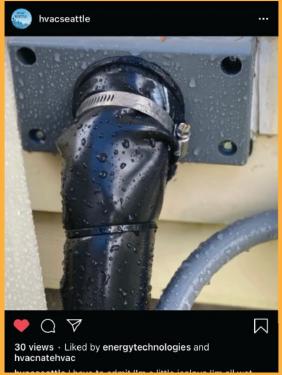
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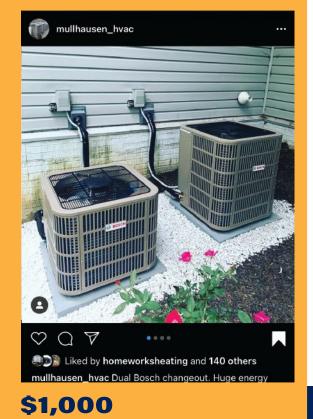
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Performance Contracting, Geothermal and Heating Products

American Standard Home



American Standard launched American Standard Home, a smart home integration platform that offers advanced HVAC system control and diagnostic features. Formerly Nexia, the new integrated app will help HVAC professionals ensure home HVAC systems are optimized for performance.

American Standard Home integrates with several smart home platforms. The most common use is connecting an American Standard smart thermostat to remotely update temperature, apply a schedule, and automate home comfort experience.

"As we look at the time we've spent indoors over the last several months, we know how important it is for our HVAC systems to create comfortable living spaces, while providing the convenience homeowners crave," said Mel Fox, senior product manager, Trane Technologies. "Innovative, user-friendly and

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practical, American Standard Home provides a seamless integrated experience for our connected homeowners."

More information: www. americanstandard-us.com.

Carrier Home App



Carrier has launched the new Carrier Home app, which provides homeowners with an improved experience managing their Infinity® System. This replacement for the MyInfinity app, which is available now in the Apple® App Store® and Google Play® store, provides an enhanced homeowner experience, improved functionality and increased connectivity performance between the mobile device and home comfort system. Carrier is a part of Carrier Global Corporation (NYSE: CARR), the leading global provider of healthy, safe and sustainable building and cold chain solutions.

While the Carrier Home app has a new look and improved performance, it still includes many of the features and benefits homeowners were accustomed to with the previous MyInfinity app. Homeowners will be able to control their entire advanced home comfort system to precisely manage the temperature, humidity and equipment efficiency. In addition, homeowners will be able to learn more about the outdoor air quality around their home, including the air quality index and the pollutant levels in the atmosphere.

The new Carrier Home app runs on a Carrier IO platform, which provides a solid backend and cloud platform to build robust IoT applications. This app represents the latest step in Carrier's digital transformation journey as its residential business reinvents its holistic digital footprint.

"We're proud to introduce the Carrier Home app to residential customers," said Gundeep Singh, Executive Director, Digital and Analytics, NA Residential & Light Commercial, Carrier. "Homeowners will enjoy the enhanced performance that better allows them to conveniently manage their home comfort settings from anywhere. This is the next progression."

More information: www.carrier. com/residential/en/us/.

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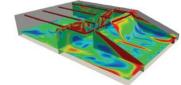
Enertech Global LLC The Advantage



The Advantage by **Enertech** Global LLC simplifies and makes radiant, in-floor heating, up to 100% of domestic hot water, and forced air heating and cooling functionality easily accessible for both HVAC contractors and endusers. It simplifies the process of sourcing components and finding a proper air-source heat pump, from design to installation, by incorporating all of the necessary pieces, factory-installed, within the indoor and outdoor module in a Monobloc design. Even at freezing (32°F), the Advantage can operate at a 4 COP.

More information: www. enertechgeo.com.

FabricAir CFD Service



FabricAir introduces its FabricAir CFD Service, a 3-D computational fluid dynamics program designed specifically for fabric ducting. The service helps North American HVAC consulting engineers and contractors predict the efficiency and efficacy of a commercial building's fabric air dispersion system design prior to construction. Developed inhouse by FabricAir engineering, the software program confirms a commercial ventilation design's airflow patterns, temperature distribution, and velocities; or identifies potentially inaccurate performance issues before factory fabrication and site installation. The software also calculates the flow patterns, pressure loss, air velocity, temperature, and other parameters affecting a space's ventilation design.

More information: www. fabricair.com.

Fujitsu General America Refrigerant Branch Units

Fujitsu General America has introduced two larger Refrigerant Branch Units (RBU) to simplify installations and to



expand the heat recovery capability of their VR-II Series Airstage VRF systems.

The new RBUs, which manage simultaneous heating and cooling in heat recovery systems, can serve between eight and 12 zones. Previously, only four zones could be served by a single RBU.

This advancement permits engineers, architects and installers to use fewer RBUs and also expands the flexibility of heat recovery systems – providing the opportunity to share thermal energy across more zones.

Flexible piping arrangements and compact size allow the new RBUs to accommodate a variety of floor plans, elevations and design changes. The RBUs require no drain pan. A two-way outdoor piping option provides greater flexibility for indoor unit connections. Maintenance tasks are easily performed even with minimal clearances, an advantage that comes from a front panel that hooks to the unit for easy internal access.

More information: www.Fu-jitsuGeneral.com.

Lochinvar Reverse Indirect Water Heater

Lochinvar, an industry leader in high-efficiency boilers and water heaters, recently announced the introduction of the Reverse Indirect Water Heater to its continually expanding family of best-in-class water heating solutions. This unit is currently available in a 125-gallon capacity for a variety of applications, both residential and commercial.

"For decades, Lochinvar has been dedicated to not only cutting-edge product innovation, but also superior durability and flexibility, offering long-lasting, quality systems for a variety of applications," said Jeff Vallett II, segment market manager for



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Performance Contracting, Geothermal and Heating Products

Continued from Page 18

Lochinvar. "The top performance and dependability offered by the Reverse Indirect Water Heater is an excellent example of the Lochinvar experience our customers have come to expect, and should expect for years to come."

Providing up to 30 GPM of continuous hot water delivery, the Reverse Indirect Water Heater is designed perfectly for multi-family, commercial and large residential water heating applications using a hydronic system. The generous hot water supply allows for an extremely dependable hot water source. The Reverse Indirect Water Heater is available in ASME and

Non-ASME construction, providing superior flexibility to fit most any job.

As with Lochinvar's continued commitment to quality, the Reverse Indirect Water Heater comes standard with a 10-year limited warranty. It also features a 316L stainless-steel coil, a jacketed and insulated steel tank, and 2" HCFC foam insulation.

More information: www.Lochinyar.com.

Noritz NCC199CDV

Noritz has unveiled the NCC199CDV condensing tankless water heater, which is approved for common-venting up to six units



in commercial applications. The new unit has a thermal efficiency rating of 98 percent, which is the industry's highest and makes it EPA ENERGY STAR® certified.* It has a maximum flow rate of 11.1 gallons per minute (gpm).

With its CSA Group approval for common venting in Canada and the

United States, the NCC199CDV offers contractors greater flexibility and ease-of-installation on the commercial job site.

"Common venting drastically reduces the number of required venting terminations, saving contractors time and labor," explains Jason Fleming, VP of Sales and Marketing for Noritz. "The NCC199CDV can therefore be very cost-effective when installed in that configuration."

With a maximum input of 199,900 BTUs per hour (BTU/hr), the NCC199CDV features two austenite 316L stainless steel heat exchangers that resist corrosion from condensate and chloride, maximizing durability and

lifespan.

Up to 24 of these units can be linked together, using the optional Multi-Unit System Controller, which offers the most control options on the market, including application functions for recirculation loops and supplemental storage tanks. BTU input can range from 18,000 to 4.8 million (for a 24-unit multisystem), yielding up to a 266:1 turndown ratio. An optional Quick-Connect cable is available for connecting two units.

Other features include:

- Multiple venting options: The NCC199CDV can vent directly, using either 2-inch or 3-inch PVC or CPVC or rigid polypropylene. As mentioned, up to six units can be common-vented indoors or installed outdoors with an optional vent cap.
- Compact design: Weighing only 81 pounds, the compactly designed heater can be easily wall-mounted. Mounting brackets line up with the top of the unit, enabling installers to more easily position it on the wall.
- Racking capability: The ability to combine (rack) multiple units offers peace of mind through redundancy: If one unit requires servicing, the others can continue to provide hot water.
- Ultra-low-NOx, modulating Eco-Burner: The premix, fully modulating burner has a nitrogen-oxide emissions level of only 14 parts per million (ppm), far exceeding the South Coast Air Quality Management District requirement of 20 ppm. The burner optimizes the air/fuel ratio to continuously match energy consumption to present demand with pinpoint accuracy. The result: better efficiency with fewer moving parts.
- High-altitude performance: The NCC199CDV can perform at an altitude of up to 10,000 feet.
- WiFi-enabled: Compatibility with the Noritz Connect app allows the user wireless remote control of heater functions, as well as diagnostic and maintenance reminders.
- Precise temperature controls: A remote thermostat can precisely adjust the output temperature from 100°F to 185°F.

More information: www. noritz.com.



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Industry Education

Johnson Controls Launches National Community College Partnership Program

Company to give \$15 million over the next five years to support academic programs at nonprofit community colleges.

Johnson Controls launched the Johnson Controls Community College Partnership Program. As part of the program, Johnson Controls will give \$15 million over the next five years to support academic programs at nonprofit community colleges. Starting in the 2021-2022 academic year, the program will endow a total of \$1 million to ten community colleges across the U.S. In addition to the funding, Johnson Controls employees will support the community colleges through volunteering and mentorships.

The grants support the expansion of associate degree and certifi-

cate programs in HVAC, fire and security, and digital building automation systems, all areas where the U.S. Bureau of Labor is predicting an increased need for skilled trades expertise in the coming years. A core objective of the program is to change the trajectory of the lives of students from underserved communities by equipping them with in-demand knowledge and skills that will support employment and a pathway for life-long careers upon graduation.

"Just as smart, healthy buildings are critical to our well-being, well-educated and trained technicians are crucial to keeping our environments operating safely and efficiently," said Grady Crosby, vice president of Public Affairs and Chief Diversity Officer at Johnson Controls. "As a leader in the building industry for over a century, Johnson Controls is honored to share our expertise with the country's leading community colleges. The Community College Partnership Program supports institutions through its funding and supports their students through volunteerism and mentorships. We believe this will empower people to build life-long careers that will transform their lives and their cities."

The initial ten community colleges receiving grants are located in cities where Johnson Controls has significant customer base and employee presence. Funding for each community college differs based on its needs; in general, colleges will use the support to purchase and develop classroom materials, learning technologies, and student scholarships. Local Johnson Controls employees in each market will serve as volunteer educators, providing students with counseling

and real-world experiences. This mentoring will be directly incorporated into various college programs and also provide a pathway for student internships and entry-level employment opportunities at Johnson Controls.

2021-2022 Community College Partnership Award Recipients:

- 1. Kennedy-King College (Chicago, Ill.): Founded in 1911, Kennedy-King College is part of the City Colleges of Chicago, a system of two-year education institutions. The college will use its funding to establish an HVAC certification bootcamp, develop a job shadowing and field experience course, as well as provide students with their own HVAC toolsets.
- 2. Suffolk County Community College (Selden, N.Y.): Founded in 1959, Suffolk County Community College is a public community college, sponsored by SUNY and Suffolk County, NY. The college will use its funding to invest in state-of-the-art training simulators and growth of a guided mentoring program featuring Johnson Controls employees supporting peer mentoring and career counseling.
- 3. Montgomery College (Rockville, Md.): Founded in 1946, Montgomery College is a public community college in Montgomery County, Maryland. The college will use its funding to expand program marketing to local, low-income communities, hire additional faculty to serve as retention and recruitment associates, and create a Building Automation Systems lab.
- 4. Community College of Baltimore County (Baltimore, Md.): Founded in 1957, Community College of Baltimore County is a public community college with campuses across Baltimore County, Maryland. The college will use its funding to hire additional faculty and grow a guided mentoring program featuring Johnson Controls employees supporting peer mentoring and career counseling.
- 5. Lone Star College (Conroe, Texas): Founded in 1992, Lone Star College is a Texas community college in The Woodlands, north of Houston. The college will use its funding to provide financial assistance for students to obtain HVAC toolkits, PPE and learning materials, as well as tuition support. Further, the

college will use funding to grow programs that encourage students to go beyond HVAC/R certification courses and complete a full Associates Degree.

- 6. Henry Ford College (Dearborn, Mich.): Founded in 1938, Henry Ford College is a public two-year college in Dearborn, west of Detroit. The college will use its funding to expand the Energy Technology-HVAC program into modular units that will also be developed into open-source, online educational resources that can be shared and further developed by other learning institutions. Further, the college will purchase HVAC simulators featuring industry standard components.
- 7. Essex Country Community College (Newark, N.J.): Founded in 1968, Essex County College is a public community college in Essex County, New Jersey. The college will use its funding to purchase learning materials and training technologies as well as create a partnership with CompTIA to expand IT certification programs for careers in IT and help desk positions.
- 8. Camden County College (Blackwood, N.J.): Founded in 1965, Camden County College is a public community college serving western central New Jersey and the greater Camden area. The college will use its funding to expand its HVAC technician training and Programmable Logic Controller Certificate of Achievement programs. Further, the college will develop a Programmable Logic Controller certificate program specifically tied to using Johnson Controls technology.
- 9. Georgia Piedmont Technical College (Clarkston, Ga.): Founded in 1961, Georgia Piedmont Technical College is part of the Technical College System of Georgia, serving students in the greater metro Atlanta area. The college will use its funding to purchase additional lab equipment for the Building Automaton Systems program and upgrade hands-on training simulators. Further, the college will refresh its commercial refrigeration and welding programs and update related program marketing to underserved communities.
- 10. Milwaukee Area Technical College (Milwaukee, Wisc.): Founded in 1912, Milwaukee Area Technical College is a public, two-year vocational-technical college. The college will use its funding to expand local recruitment for HVAC career training as well as upgrade lab and training equipment.

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NATE is the leader in developing and recognizing professional HVACR technicians.

North American Technician Excellence (NATE) is the largest non-profit certification organization for heating, ventilation, air conditioning and refrigeration technicians.





Industry Education

Carrier, Bryant Announce Winners of Distributors' Education Foundation Scholarships

25 scholarships awarded to children, grandchildren and employees of Carrier and Bryant contractors.

Carrier and Bryant have announced the 25 recipients of this year's Carrier & Bryant Distributors' Education Foundation scholarships. Recipients will receive this support for their college or vocational education during the 2021-2022 school year. Carrier and Bryant are part of Carrier Global Corporation (NYSE: CARR), the leading global provider of healthy, safe and sustainable building and cold chain solutions.

"The Carrier & Bryant Distributors' Education Foundation is an excellent resource for our contractors, and we're pleased to be able to provide support for

their scholarship recipients," said J.T. Holtschlag, Vice President, Sales and Marketing, Carrier and Bryant. "Not only does this program help the recipients prepare for their future success, it's also an effective way to help bridge the technician gap in our industry as some of them decide to enroll in vocational training. All in all, this is a special way for us to acknowledge our contractors, as they serve a vital role in our business. We greatly appreciate all that they do and say 'thank you' for their expertise and support."

Established in 1981, the Carrier & Bryant Distributors' Education Foundation was created to commemorate the late William A. Blees for his many significant contributions to Carrier distributors. Today, the foundation continues to serve the children, grandchildren and employees of dealers and contractors while also honoring the industry's founder, Dr. Willis Carrier.

A post-secondary scholarship fund is a fitting memorial because Dr. Carrier attended Cornell University on a full, four-year merit scholarship. He earned a bachelor's degree in electrical engineering, became a successful inventor and businessperson, and, in 1902, invented the founding principles of modern air conditioning. Dr. Carrier was a consummate scientist and an educator, but he might not have even attended college without financial assistance.

Scholarships from the foundation are available to children, grandchildren and employees of Carrier and Bryant dealers and contractors and their employees throughout the U.S. and Canada. Scholarship finalists are

selected based on their demonstrated performance in school. Leadership, motivation and involvement in extracurricular activities are also taken into consideration.

The 2021 Carrier & Bryant Distributors' Education Foundation scholarship recipients include:

- Ryan Anger, Sheboygan, Wisc
- Alyssa Barker, Fishers, Ind.
- Hallei Bittlinger, Hebron,
- Kassidy Bogle, Henderson, Texas
 - Faith Doerr, Elkhart, Ill.
 - Chloe Harber, Somis, Calif.
- Whitteny Holladay, Mayene, Ala.
- Lillian Holmer, Imperial, Mo.
 - Haddie Hughes, Fond Du

ac. Wisc.

- Jonathan Kahn, Park Ridge,
- Mary Kulis, Kent, Ohio
- Anne Leaman, Willow Street, Penn.
 - Katia Marcellus, Luck, Wisc.
 - Danielle Owens, Columbus, Miss.
- Elizabeth Paul, Stoutsville, Ohio
- Casandra Rausch, Lake in the Hills, Ill.
 - Lane Reed, Metropolis, Ill.
 - Brooklyn Rigby, Grace, Idaho
- Michaelyn Russell, Andalusia, ıla.
- Steven Van Pelt, Mohnton, Penn.

For more information about Carrier or Bryant, please visit https://www.carrier.com/residential/en/us/ or www.bryant.com.

ASHRAE Announces 2021 Student Design Competition Winners

The winners of 2021 ASHRAE Student Design Competition and Applied Engineering Challenge were announced. The competitions encourage students to become involved in the design of energy-efficient HVAC systems – a profession that is crucial to ensuring a sustainable future for the earth.

This year's Student Design Competition focused on a new 50,000 square foot building on a higher education campus in Prince George, British Columbia, Canada. The building included a two-story cafeteria, associated office, and commercial kitchen and storage space. The teams were tasked with providing safe and healthy storage of food materials on the lower level in a manner that prevents spoiling and the growth of bacteria, while providing enough kitchen/servery space and permanent seating to serve a peak occupancy of 720 students and a total of 3,000 students per

Teams competed in one of the three categories:

- HVAC Design Calculations
- HVAC System Selection
- Integrated Sustainable Building Design (ISBD)

First place in the HVAC Design Calculations category was awarded to Brandon Jung, Arin Lee, Lukengo Miguel, Kyle Vanderhorst and Jeff Yoon of the University of British Columbia, Vancouver, British Columbia. Dr. Nima Atabaki,

P.Eng. was the team's faculty advisor. Esteban Kello, P.Eng. and SunJun Yoo, EIT were the team's industry advisors.

Placing first in the HVAC System Selection category were Cole Quinlan, Nicholas Schramski, Brian Van Schepen, Cole Weber, Evan Eldred and Jordanny Williams from Ferris State University, Big Rapids, Michigan. Joseph Pacella was the team's lead mentor.

Receiving first place in Integrated Sustainable Building Design category was Andre Cosini, Xinyan Liu, Christopher Maitski, Andrew McGrail, Roumany Phan and Christopher Unis from Pennsylvania State University, State College, Pennsylvania. William Bahnfleth, Ph.D., P.E. was the team's faculty advisor. Luke Leung, P.E. was the team's industry advisor.

In the 2021 Setty Family Foundation Applied Engineering Challenge, students were challenged to design an indoor farming system to meet the needs of a local community with regards to single or multi-family residential construction. The system could be designed for new or renovation construction types. The system took into account multiple system variables, including space temperatures, humidity, lighting, acoustics, and outdoor conditions to deter-

Continued on Page 29



HERS Rating Air & Hydronic Balancing Permit Expediting & Retrieval



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Technical Training

Growing Green Technicians Part 143: Forced Air Heating Systems and Humidification

By Jim Johnson Contributing Editor

Heading into fall and the winter season, it's likely that HVACR technicians will be having discussions with customers regarding their concerns about their indoor environment being "too dry" or "chilly" even though their gas furnace or heat pump system seems to be operating, but not keeping them comfortable.

Often, the customer's solution to this problem is to bump the temperature up a few degrees.... which usually means that it won't be long before they'll be reaching for the thermostat again to turn it down because it's now warmer than they want it to be in the building. And, this sequence of events repeats and repeats, which results in wasted energy.

From a green perspective, handling this situation for customers begins with a basic understanding of psychrometrics.

The customer's assumption is that their heating system is causing the air in the conditioned

space to "dry out", when in fact what is specifically occurring is that the relative humidity of the air is decreasing. One factor to consider here is that during the heating season, when the cool outside air that is necessary for ventilation and fresh air requirements is either leaking into a structure (not green) or is being brought into a building via a system designed to control air intake (green), it contains a given level of moisture. And, with that intake air warms up, it will still contain that level of moisture, and the ability of that air to hold moisture will increase, making it seem "drier."

From an energy-efficient perspective, a heating system that is not keeping the occupants comfortable due to the situation we've described above, the answer could be add a humidifier. From a fundamental perspective, there are general classes of in-duct humidifiers:

1. Atomizing humidifiers that spray a mist of atomized water through a nozzle and into the duct system.

2. Evaporative humidifiers that use a plate or rotating drum system that holds moisture, allowing it to enter the duct system when the air flow passes over the pads or the container of water.

When it comes to gas furnaces, a plate type humidifier that mounts with a flange and employs pads that are replaced regularly (see **Figure One**), or a rotating drum system (shown in **Figure Two**) will effectively humidify the air and it moves through the duct system.

However, in the case of a heat pump system, the lower supply air temperature of this type of heating equipment is typically not warm enough to cause water to evaporate effectively. In these cases, an atomized humidifier, such as the type we're showing in **Figure Three**, would be required.

Whatever the heating equipment type, adding the correct type of humidification system and employing an effective control system will result in a more even comfort level in the building, ensuring the efficient operation of the system.









Little Giant Brand Celebrates 80th

Franklin Electric Co., Inc. (NASDAQ: FELE) brand Little Giant is celebrating a milestone 80th anniversary in 2021, and the company is marking the occasion with a series of initiatives planned throughout the year.

"For 80 years, Little Giant has stood the test of time, pumping a steady flow of proven reliability and superior technical know-how both through the products we offer as well as the staff and support team behind the scenes. We're excited to commemorate this anniversary with initiatives that bring our partners together," said Steve Frappier, Business Unit Manager for Little Giant.

One such initiative is a revitalized brand look that the company notes reflects the 80 years of experience in innovation, manufacturing expertise, and technical support that Little Giant provides. "Little Giant has pumped a lot of water in the past 80 years, and there is much more to look forward to in the next 80 and beyond," said Frappier.

The core product that Little

Little GIANT.

Giant still offers today was originally conceived in 1926, when plumber R.M. "Doc" Wolfe had an issue with the currently available pumps failing at a frustrating rate. At the time, air conditioning units were just beginning to become popular, and each unit had a pump to get water up into a screen for evaporative cooling. Every time Wolfe fixed one of these pumps, it would break again. He enlisted the help of inventor Harry Goodman to create his solution: the world's first evaporative pump. In 1941, the Little Giant Vaporizer was born – and so was the Little Giant brand. The innovative, patented pump became the cornerstone of Little Giant - and laid the foundation for a company dedicated to solving the pumping problems plumbers and HVAC professionals faced.

Decades of additional milestones followed:

• In 1950, Goodman filed a

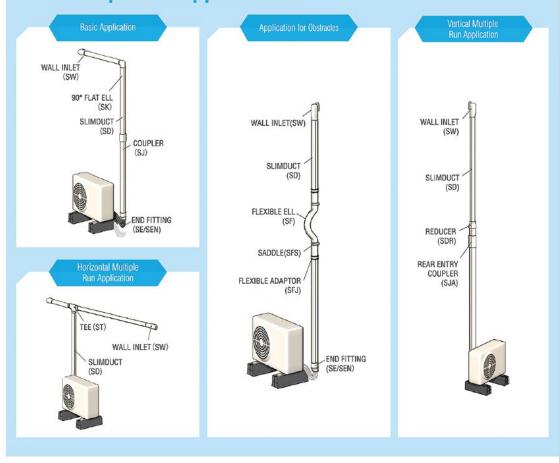
Continued on Page 30

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New Products

Watts Big Bubba S100



Watts has announced the release of its Big Bubba® \$100 complete whole home filtration solution. This certified point-of-entry system gives plumbing contractors a solution for homeowners concerned about lead, PFOA, PFOS, cysts, and chlorine taste & odor in their drinking water.

Big Bubba is certified to reduce 99.62% of lead and 98.26% of PFOA and PFOS in drinking water (@ maximum of 4 GPM). It is also certified to reduce cysts, chlorine taste, and odors. In addition, a volumetric flow monitor alerts the user when filter cartridge changes are due, and a high-capacity 0.5-micron carbon block filter (84,480 gallons) is included.

"PFAS contamination continues to make headlines as it shows up in public and private water systems throughout the country," said Neal White, Director of Sales, Watts Water Quality. "Watts is very excited to be able to bring the BB-S100 whole home filtration solution to the market at this time to help concerned consumers address this growing problem."

More information: www.Watts.



Nu-Calgon has launched PowerZyme™, a new liquid enzymebased drain line treatment for use in the HVAC and food service markets. PowerZyme keeps drain lines flowing freely and addresses condensate and drain problems such as odors, grease, sugar snakes and more.

Easily dispensed from a fliptop spout, PowerZyme breaks up sludge organic matter and quickly eliminates odors in condensate pans and drain lines. It easily pours through standing water and will safely protect systems from build-up for up to three months.

PowerZyme liquid is available in a 32 ounce quart, as well as an

8 ounce "job size" bottle. Power-Zyme Gel formulation is also available in a 32 ounce spray bottle.

For over 70 years, Nu-Calgon has been providing quality specialty products for the HVACR market. The company's complete line of products includes coil cleaners, descalers and refrigeration oils, as well as products for indoor air quality, water treatment, ice machine maintenance and other applications.

More information: www.nucalgon.com

Taco VR Series



Taco's new VR Series high-efficiency ECM cast iron or stainless steel circulators offer a wide range of low, medium or high head options in sizes from 1/3 - to 2-HP. Easy, intuitive settings and operation will appeal to installers for a broad range of uses, including HVAC, hot water recirculation and NSF commercial hot applications.

00e VR circulators provide an easy-to-program pump interface with real-time feedback. Modbus, BACnet, 0-10Vdc + pulse width modulation (PWM) are standard. The circulators provide 62 feet max head and up to 320 GPM flow. They are NSF/ANSI 61 + 372 commercial hot certified.

The circulators are also equipped with ASHRAE's 2019 Software Innovation Award-winning Taco Tags, providing vital product/application information instantly to phones or other mobile devices. Even the molded insulation shell is included.

More information: www.Taco-Comfort.com.

RectorSeal Circuit Shield

RectorSeal®, Houston, a leading manufacturer of quality HVAC/R and plumbing tools and accessories and a wholly-owned subsidiary of CSW Industrials, Inc. [NASDAQ: CSWI], is a master distributor of GulfCoat™ Circuit Shield™ conformal spray coatings.

When properly applied, Circuit Shield coatings provide a clear, micro-thin acrylic coating that protects surfaces from the harmful effects of corrosion caused by environmental forces such as salty ocean air. Further, it helps to mitigate problems caused by pests such

as geckos, ants, snakes, and mice. The easy-to-apply spray offers superior adhesion and can be applied on-site during installations. Formulated to support dielectric properties, Circuit Shield coatings offer enhanced UV resistance and excellent moisture resistance to coated surfaces.

"When circuit boards fail due to corrosion like salty ocean air, it can be an expensive repair," said Caitlin Krc, Product Manager at RectorSeal. "Additionally, outdoor pests often seek the warmth provided by a circuit board. That situation often causes a fault in the circuit board, the death of the pest, and expensive damage to the unit. Circuit Shield™ offers an additional level of protection to help extend the life of the equipment."

Circuit Shield coatings are harmless to geckos and other pests but provide the needed barrier to reduce damage to expensive circuit boards. When properly applied, Circuit Shield spray coatings offer a uniform dry film thickness of 0.4 -1.4 mils and meet a 5B rating for crosshatch adhesion per ASTM D3359. Corrosion durability shall be confirmed through testing to no less than 2,500 hours salt spray resistance per DIN 53167 (ASTM B117) using aluminum test coupons. Dielectric Withstanding Voltage test shall pass at 1500 volts/mil thickness.

In addition to HVAC/R Printed Circuit Boards, Circuit Shield coatings can be used to protect elevator control panels, telephone communication boxes, outdoor timers and switches, traffic light and rail crossing control panes, automotive, heavy-duty, and off-highway equipment.

More information: www.rectorseal.com.



FEBCO ArmorTek

FEBCO has announced the addition of the ArmorTek[™] advanced coating system to its ductile iron backflow preventer valves. This advanced patent pending technology provides three layers of protection to create an effective barrier, dramatically increasing resistance to corrosion.

According to Cameron Rapoport, Backflow Product Specialist for FEBCO, "When epoxy coating is breached, iron exposed to water corrodes, and in some

cases, bacteria can create accelerated microbial-induced corrosion, or 'MIC'." The ArmorTek three-pronged corrosion protection solution provides:

- 1. Anti-corrosion primer An advanced primer contains an electrochemical corrosion inhibitor. It significantly slows the spread of corrosion should the metal substrate become exposed from wear or impact.
- 2. Microbial inhibitor ArmorTek's exclusive formulation inhibits the growth of bacteria that cause MIC. This further slows the spread of corrosion and limits the growth of tubercles that can clog or foul downstream equipment.
- 3. Robust topcoat ArmorTek's top layer is specially-designed to bond to the primer below, providing a high-strength barrier between the iron substrate and water.

More information: www.feb-coonline.com.

RLS Online Training Portal



RLS® LLC ("RLS"), manufacturer of the first press-to-connect fittings for the HVAC and refrigeration industries, announces the launch of their new RLS Certified Installer online training program at training.rapidlockingsystem.com. The new training portal walks HVAC/R contractors through the step-by-step process of making reliable, permanent copper tube connections using RLS press technology.

"We're very excited to offer this comprehensive new training program for users of RLS press fittings," said Paul Schubert, President of RLS. "The new portal explains our patented press technology, how and why it works so well, and the steps required for proper installation. Both audio descriptions and video demonstrations are used to reinforce the material and facilitate learning."

Users must pass a series of quizzes as they work through each section of the training program, as well as a final test after completing the entire course. After passing the final test, a customized certificate of completion can be downloaded.

In conjunction with the new training program launch, RLS has also introduced a new company logo. The new design comes as the company celebrates the sixth anniversary of the introduction of its revolutionary technology to the HVAC/R market. Originally introduced in 2015 under the Zoom-Lock® brand through a partnership with Parker Hannifin Corporation, RLS fittings are now sold exclusively under the RLS brand.

"Now that RLS press fittings have taken on their own identity in the marketplace, we felt it was time to give our logo a new look that represents our leadership position in the industry," said Schubert. "The logo emphasizes our patented fitting design, including the unique flared ends which make it instantly recognizable as an HVAC/R fitting, setting it apart from those used for plumbing."

RLS designs, develops, and proudly manufactures its fittings in America, at its centrally located Missouri factory. The press fittings replace the time-consuming and demanding conventional practice of manually brazing HVAC/R copper joints. RLS fittings allow for faster, more consistent connections that reduce total installed cost while also enhancing safety, since they do not require an open flame.

More information: www.rapidlockingsystem.com.

Greenheck ESD-635HP

Greenheck's ESD-635HP, a 6-inch deep stationary drainable blade louver, is designed to provide high volume air flow and superior resistance to water penetration. The high- performance ESD-635HP incorporates drain gutters in the head member and each horizontal blade to channel water to the jambs where it is further channeled through vertical downspouts and out at the sloped sill, protecting building air intake and exhaust openings. Available in single section sizes up to 48 in. x 48 in., the ESD-635HP provides more free area (61.5%) on these smaller sizes to complement our industryleading ESD-635 drainable louver, and is licensed to bear the AMCA Seal for Water Penetration and Air Performance.

Manufactured of extruded aluminum, Greenheck louvers can be specified with a variety of options in a broad array of architectural finishes for durability and compatibility with adjacent components.

More information: www.green-



Green Technologies

LG Pledges Transition to 100% Renewable Energy by 2050

Commitment expands on zero carbo 2030 initiative.

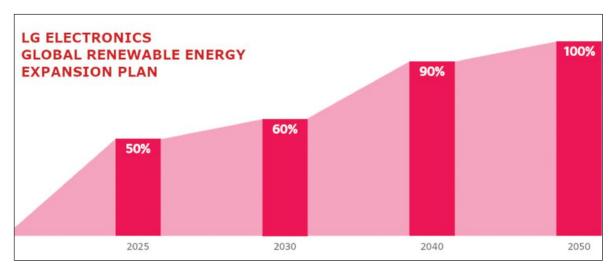
LG Electronics Inc. made public its commitment to transition completely to renewable energy by 2050 as a key component of its sustainability strategy. The announcement in the LG Electronics Sustainability Report comes on top of its earlier commitment to carbon neutrality through the Zero Carbon 2030 initiative in which LG has pledged to reduce carbon emissions in the production stage to 50% of 2017 standards by 2030.

The transformation will be implemented region by region starting in North America, where every office and manufacturing site will be powered by renewable energy within the year. LG manufacturing facilities outside of Korea are on target to convert 50% of their electricity needs to renewable energy in the next four years

Achieving this objective globally will include installing high-efficiency LG solar panels on its buildings, utilizing power purchase agreements that allow companies to purchase electricity directly from suppliers, utilizing Renewable Energy Credit (REC) certificates, and participating in the Green Premium program in Korea, LG's home market to purchase clean energy directly from the Korea Electric Power Corporation (KEPCO).

Currently LG is installing solar modules with a capacity of 3.2 MW on a manufacturing site in Noida, India, generating electricity to power LG's administrative office as well. This project will be expanded as a part of the Clean Development Mechanism (CDM), allowing LG to secure carbon reduction certificates from the United Nations Framework Convention on Climate Change (UNFCCC).

"Our commitment to creating a better life for all can best be actualized by LG transition to renewable energy and achieving carbon neutrality," said Park Pyung-gu, senior vice president at LG Electronics Safety & Environment Division. "In today's world, innovation doesn't just



happen in the lab, but it must also happen in our factories and plants. Today's manufacturers have a once-in-a-lifetime opportunity to give the next generation a world worth inheriting and at LG, and we take this responsibility very seriously."

LG Electronics Inc. is a global innovator in technology and consumer electronics with a presence in almost every country and an international workforce of more than 75,000. LG's five companies – Home Appliance & Air Solution, Home Entertainment, Mobile Communications, Vehicle component Solutions and Business Solutions – combined for global sales of over \$56 billion in 2020. LG is a leading manufacturer of consumer

and commercial products ranging from TVs, home appliances, air solutions, mobile devices, monitors, service robots, automotive components. The premium LG SIGNATURE and intelligent LG ThinQ brands are familiar names world over.

Visit www.LGnewsroom.com for the latest news.

Propane Education & Research Council Launches National Brand for Propane

The Propane Education & Research Council (PERC) launched a new identity for propane that signals a seismic change in how to view this reliable energy source.

The new brand, PROPANE Energy for Everyone[™], highlights propane's role in ensuring energy equity and reducing carbon emissions.

"Americans are beginning to appreciate the value of propane in a wider energy mix after seeing the vulnerabilities of the electric grid in Texas and California and around the country," says PERC President and CEO Tucker Perkins. "Propane is clean, affordable, and available right now. Unlike the electric grid, it does not require trillions of dollars in infrastructure investment that will create a burden on those who can least afford it. Propane offers solutions for climate, health, and equity."

The PROPANE Energy for Everyone™ brand was created by PERC's newly selected creative agency of record, Elevation Advertising, after a competitive review. It is rolling out to propane industry partners in anticipation of consumer and market-specific



campaigns this fall.

"As we familiarized ourselves with the energy sector as part of the competitive review, we realized that propane has a remarkable story that's not being told," says Elevation's co-founder and executive creative director, Aaron Dotson. "Propane is part of a clean energy mix that complements other renewable systems to help reduce carbon emissions today, right now. With the national energy conversation shifting more toward sustainable solutions every day, it's the perfect time to share propane's story."

The PROPANE Energy for Everyone™ brand was the top performer in testing with homeowners, business owners, energy influencers, and propane professionals. Millions of Americans use propane for heat, hot water, cooking, and power generation at home and at work. It is also a popular fuel for school buses, emergency first-responder equip-

Continued on Page 34



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www.indoorcomfortnews.com ICN SEPTEMBER 2021 27

Venstar's Skyport Cloud Services Provide HVAC Control and Much More for L.A. School

Challenge: Remotely Manage HVAC Systems and More

Chet Galland is the director of Facilities at the Berkeley Hall School, a prestigious 100+ year-old pre-K through grade 8 independent school in Los Angeles. Galland is responsible for the management and maintenance of campus facilities encompassing 80,000 square feet of buildings across 66 acres.

Galland wanted to find thermostats that could be remotely managed using a system that gives him remote control of the school's HVAC units. His goal was to manage and reduce energy usage and costs from his desktop computer or iPad. He also wanted to be able to remotely control and set timers for the schools' circulating pumps to ensure indoor comfort while managing energy usage during off schedule events.

Solution: Venstar Skyport Cloud

Galland chose Venstar's ColorTouch® and Explorer® Mini thermostats, which are managed by Venstar's free Skyport® Cloud Services and mobile app.



CHET GALLAND, DIRECTOR OF FACILITIES, BERKELEY HALL SCHOOL.

Features include:

- Remote control of HVAC via Skyport website or mobile device
- Ability to set timers to turn on/ off the hydronic circulating pump
- Utilization of Skyport as a remote timer switch for exterior lighting
- Global changes feature across the entire system
- Setpoint limiting to reduce tampering with thermostats

Results: Greater Control of HVAC Units and Related Systems

Venstar's Skyport Cloud Services provides control of units and related systems, including the school's



BERKELEY HALL'S HYDRONIC CIRCULATING PUMP.

hydronic circulating pump system to help ensure indoor comfort.

Results include:

- Flexibility to control HVAC at individual buildings or areas
- Remote control of the school's thermostats
- · Capability to nest schedules within the overall schedule
- Ability to program fans based on occupied/unoccupied status
- Global changes to save time versus manual changes
- Global messaging to classrooms for announcements and

- Timer control of the hydronic circulating pump system
- Ability to control and set on/ off schedule for exterior lighting

Future uses include scheduling timers for exhaust fans, outdoor lighting and even security for perimeter door lockdown.

Located in Los Angeles, Berkeley Hall School is a private, coeducational school for students in preschool through grade 8. Rigorous academics in a supportive atmosphere and grounded char-

acter development allow students to become fearless scholars and conscientious citizens as well as gain a love of learning, leadership, social responsibility and creativity with moral integrity, self-esteem and compassion for others and the environment.

Founded in 1992, Venstar Inc. is a leading thermostat and energy management system (EMS) manufacturer, known for providing value to its customers via ease of use and installation, proven cost savings, improved energy efficiency, quality and reliability. Venstar is one of the largest thermostat suppliers in the world and designs and produces Venstar-branded products, as well as OEM thermostat products for the biggest names in HVAC. Venstar's Surveyor is a leading energy management system, typically saving small-box retailers 25-35 percent of their energy costs, which translates to tens of millions of dollars in savings each year and dramatic reductions in CO2 emissions. Surveyor currently controls the energy usage of 30,000+ retail locations across the United States, Canada, Puerto Rico and Mexico.

Features

Carrier Gains Momentum as it Helps K-12 Students Return Safely to Schools Amid Pandemic

As thousands of school districts across North America prepare for students to return, Carrier Global Corporation (NYSE:CARR), the leading global provider of healthy, safe, sustainable and intelligent building and cold chain solutions, is providing solutions and services to schools that will help support building and occupant health, cognitive performance and energy efficiency. In the first half of 2021, school districts across North America have purchased Carrier

EASY TO OPERATE BATTERY **OPERATED**

WANT TO SAVE ON CRANE COST? LIGHTWEIGHT **AIRCRAFT ALUMINUM PATENT PENDING** CALL TODAY (972) 939-3231 • WWW.PRO-LIFT.COM Healthy Buildings solutions, including more than 18,000 Carrier OptiClean™ Dual-Mode Air Scrubber & Negative Air Machines. This is part of Carrier's more than \$500M active pipeline in its Healthy Buildings Program and the multibillion-dollar opportunity the company sees in the K-12 segment over the next few

Carrier's solutions for K-12 schools include ventilation and filtration technologies, controls, services and touchless products. In addition to supporting mitigation against disease transmission, improved indoor environments can also improve thinking. High CO2 levels, which can occur in crowded classrooms with poor ventilation, have been proven to impact brain-based skills. According to the COGfx study, people perform twice as well when indoor environments are optimized through high ventilation, low CO2 and low volatile organic compounds. Test scores on cognitive function were highest in the areas of information usage, strategy and crisis response. In some

cases, nearly 300% higher.

"Carrier understands the specific needs of the K-12 segment and is committed to helping create healthier, safer and more productive environments for students and staff. The momentum we're seeing is strong, and we believe it's attributable to a greater understanding of the long-term benefits of healthy buildings," said Ajay Agrawal, Senior Vice President, Global Services & Healthy Buildings, Carrier. "With the right strategies in place, better thinking and better health can be achieved inside healthier schools."

In Arizona, Carrier will be providing more than 800 HVAC units to multiple buildings in a district that serves more than 35,000 students. The products, which are a variety of packaged HVAC systems, will help to improve indoor air quality and comfort in classrooms throughout the district. In California, students will be more comfortable through the installation of more than 100 Carrier WeatherMaster packaged rooftop units (RTUs), which are more efficient than prior units. Funding for both projects was partially provided by the American Rescue Plan's Elementary and Secondary School Emergency Relief Fund (ESSER Fund), which provides funding dedicated to K-12 schools, including improvements to HVAC systems and ventilation.

In the Richmond Public Schools district in Virginia, more than 25,000 students can breathe easier this fall with the installation of more than 1,500 Carrier Opti-Clean Dual-Mode Air Scrubber & Negative Air Machines to help purify the air in classrooms across the district. And in Texas, administrators in the Texas City Independent School District are investing in the health of their students and faculty with a multimillion-dollar order for chillers, air handling units, and controls for La Marque Middle School, which is currently under construction. The order will create a state-of-the-art HVAC system that will help promote proper ventilation and air quality in the school.

To learn more about the K-12 offerings, visit corporate.carrier. com/healthybuildings.

Troubleshooting

A Reach-in Freezer That's Not Keeping Product Frozen

By Jim Johnson Contributing Editor

In this troubleshooting situation, a restaurant manager is calling for service on a reach in freezer, and the complaint is that the unit "isn't freezing things hard."

When you arrive, you confirm that the equipment, which is designed to have a box temperature of 0 to 5° F, is maintaining a temperature near 35°F. You also note that the compressor, condenser fan motor, and evaporator fan motor are all operating.

As your first step in evaluating this situation, you check the condenser coil and find it to be clean. When you check the condition of the indoor coil, you find that it is clogged with frost. When you check the schematic diagram shown in **Figure One** (note the legend in **Figure Two**), you determine that this equipment is designed to defrost on a time schedule, and when the timer

advances to the defrost mode, a normally closed switch wired in series with the compressor opens, and a normally open switch wired in series with the defrost heater closes.

Following the manufacturer's recommended procedure, you manually initiate a defrost mode and find that:

- 1. An ammeter check of the defrost heater circuit shows the proper current draw.
- 2. A voltage check at the DFTM connections shows the proper voltage.
- 3. The evaporator fan motor does not shut down when the defrost cycle is initiated.

Your troubleshooting question: What is the next step you need to take in servicing this equipment?

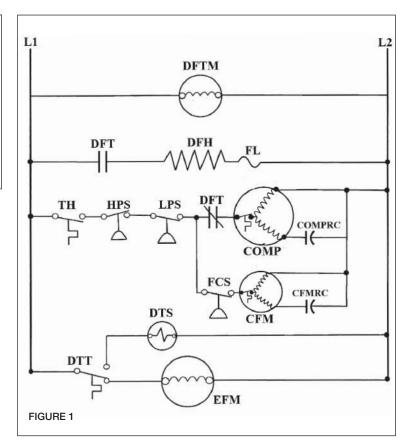
If you believe you have the correct answer to one of Jim Johnson's Troubleshooting Problems, please submit it by email to Jim Johnson at icntrouble-

CFMCondenser Fan Motor
COMPCompressor
DFHDefrost Heater
DFTMDefrost Timer Motor
DTSDefrost Termination Solenoid
DTTDefrost Termination Thermostat
EFMEvaporator Fan Motor
FCSFan Cycling Switch
FLFusible Link
HPSHigh Pressure Switch
LPSLow Pressure Switch
CFMRCCondenser Fan Motor Run Capacitor
COMPRCCompressor Run Capacitor
THThermostat
FIGURE 2

shooting@techtrainassoc.com or by U.S. Mail to: Technical Training Associates, PO Box 2259, Green Valley, AZ 85622-2259.

In your email subject line please include "Troubleshooting Answer" and indicate which month the question you are responding to was published.

Correct answers will be entered into a drawing and will be eligible to receive a copy of Jim Johnson's video "Evaluating Refrigeration Systems: Troubleshooting & Identifying Problems."





The next step we need to take to get this equipment operating again is to replace the Outdoor Fan Contactor. Our voltage checks showed that the OFC coil was energized with the proper operating voltage, but that the OFC contacts were not closing to complete the circuit to the outdoor fan motors.

The winner of last month's Troubleshooting is:

Jake Olivas

California Air Control, Inc. Covina, Calif.

ASHRAE Competition

Continued from Page 23

mine the best course of action to be integrated into a residence.

Adam Bessey, Ryan Salazar and Matthew Malonzo from California Polytechnic State University, San Luis Obispo, California received first place. Steffen Peuker, Ph.D. was the team's faculty advisor.

The projects will be recognized during the 2022 ASHRAE Winter

Conference, January 29 thru February 2 in Las Vegas, Nevada. The Winter Conference is held in conjunction with the ASHRAE co-sponsored AHR Expo, which will be January 31 through February 2 at the Las Vegas Convention Center.

For a full list of Student Design Competition winners (First, Second, Third and Rising Star), please visit the Competitions page on ashrae.org.





Indoor People



MICHELLE THOMAS

Mitsubishi Electric Trane HVAC US (METUS), a leading supplier of Ductless and Ducted Mini-split and Variable Refrigerant Flow (VRF) heat-pump and air-conditioning systems, announces the promotion of **Michelle Thomas** to vice president, human resources.

In her new role, Thomas is responsible for the company's human resources strategies and employee engagement. In addition, she leads METUS talent acquisition, development and retention initiatives. She also reinforces a culture of high performance through effective communication of strategic vision, objectives, and business results.

"Over the years, Michelle has been a tremendous asset to our team. Her expertise in human resources strategies supports the high-performance culture that is key to the continued growth and success of our company and employees," said Mark Kuntz, chief executive officer, Mitsubishi Electric Trane HVAC US.

Thomas joined the Mitsubishi Electric human resources team in July 2013. She served an essential role during the 2018 creation of Mitsubishi Electric Trane HVAC US, where she established benefits and policies for the new organization. Before joining METUS,

she served as senior vice president, human resources and talent management at Turner Broadcasting System, Inc.

Thomas holds a Bachelor of Science in merchandising from the University of Georgia and a Senior Professional in Human Resources (SPHR) certification from the Human Resources Certification Institute

.

BEN DENNIE



BRENNAN VAUGHN

Nationwide Coils announced two new team members offering on-site support: **Ben Dennie**, newly appointed account manager and designer III, will represent the Tennessee River Valley and greater Mid-South regions, and **Brennan Vaughn**, newly appointed account manager, will represent the Greater Houston area

Dennie brings more than 20 years

of experience to Nationwide Coils. Brennan Vaughn also brings years of hands-on experience

"This is an exciting time for Nationwide Coils," said Ross Stephens, president of Nationwide Coils. "Although we have always served commercial coil needs across the country, our two new team members allow us to deliver hands-on, personalized service in two key, growing markets. Their extensive experience and professionalism will prove invaluable as we grow our client base."

Dennie and Vaughn join Ross Stephens, president; Stephen Barzelatto, vice president; Jay Feldman, national account manager; James Filauro, New York Tristate area account manager; Andre Ostacoli, inside sales manager; and Chris Wright, Chicago account manager in leading the sales and service team of Nationwide Coils.

CASPR Group has appointed Charlie Suiter as its new vice president of distribution development.

.

Suiter has experience overseeing companies' day-to-day operations; managing key accounts; and recruiting, training, and supervising on- and offpremises sales teams. He will lead an internal sales team as well as the network of North American distributors CASPR uses to sell its products.

"We're thrilled to add Charlie to our management team," said CASPR Group CEO Scott Wheeler. "His long experience in managing sales and distribution logistics will be an asset as he leads the development of our distribution team."



CHARLIE SUITER

Suiter took on his new role in late March.

"I believe in what CASPR is doing and I recognize that our unique, proprietary technology is the superior solution to continuously eliminate viruses, bacteria, and molds from indoor air and surfaces," Suiter said. "I'm looking forward to growing our sales and distribution network and driving awareness around our industryleading, standard-setting products."

American Residential Services (ARS) announced **Filip Wojcikowski** has been named the company's new senior vice president and head of corporate development, reporting to ARS CEO Scott Boose.

As head of corporate development, Wojcikowski will help shape the company's acquisition strategy; maintain relationships with external partners; and source, negotiate, structure, and execute strategic acquisitions and investments across the business.

"With over 20 years of M&A experience, 70 completed acquisitions, and a proven track record, Filip will be instrumental to the acceleration of our growth strategy," said Boose. "In his role, Filip

will target key regions and product verticals to evaluate, analyze, and execute mergers, acquisitions, and strategic investments enabling ARS to expand our position as the leader in our industry."

Prior to joining ARS, Wojcikowski was most recently a senior vice president, Development, at Summit Materials Inc. Prior to that, he served as senior vice president, Development, at CRH Americas. Filip started his career as an investment banking analyst at J.P. Morgan in New York.

Filip graduated from Rutgers University, School of Business in New Brunswick, New Jersey, with a Bachelor's degree in Finance. He resides in Park City, Utah, with his wife and two children.



FILIP WOJCIKOWSKI

Cold Craft Inc. announced the hiring of **Daryl Demanawa** for director of operations. Demanawa will have the primary responsibility for the success of field operations.

"We are thrilled to have Daryl on board to bring a fresh look at our 30-year operation," said Kent Penning, president and founder of Cold Craft Inc.

Continued on Page 34

Duct Leakage Testing? WENTCAP MAKING GREEN FASTER CHEAPER SAFER FASTER WWW.VentCapSystems.com

Little Giant 80th

Continued from Page 24

patent for what was to become the iconic Little Giant submersible water pump. This upgraded Little Giant Vaporizer Pump could be used anywhere water recirculation was an issue: both underwater and on dry land.

- Later in the 1950s, the company developed the C2 and C3 pumps, signaling their entrance into the condensate pump business.
- In the early 1960s, Little Giant entered the high-flow drainage pump market with the introduction of sump pumps. The 1/3 HP 8 Series sump pump was the first to launch, appearing

in the 1964 Little Giant catalog. A year later in 1965, Little Giant added the smaller 1/3 HP 6 Series sump pump and a larger 1/2 HP 10 Series. While the market has evolved over the years, the iconic 6 Series continues to be a topperforming sump pump throughout the industry.

- Innovation continued throughout the 80s and 90s as the company released more options for sump, sewage, effluent, aquarium pumps, sewage basins, pool cover pumps and decorative outdoor living products for the landscaping industry.
- The creation of the VCMA series in 1999 led to an entire next generation of Little Giant condensate pumps that are still being used today, including additional

standard condensate removal pumps, low profile condensate removal pumps, in-pan condensate removal pumps, plenum and high-temperature pumps, minisplit pumps, and specialty pumps like evaporative cooler pumps and ice machine replacement pumps.

• Grinder pumps hit the market in 2000, creating even more Little Giant solutions for wastewater and HVAC professionals.

"It all started with a problem noticed by a plumber, and today Little Giant is solving the problems of contractors, distributors, and homeowners around the world," said Frappier. Visit littlegiant.com to learn more about the Little Giant brand and other ways the company is celebrating the 80th anniversary.



41st Annual HVAC/R/SM Performance Contracting Product & Equipment Trade Show

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Airex Manufacturing

Airzone North America

Albritton Company

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Arzel Zoning Technology, Inc.

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SOUTHERN CALIFORNIA EDISON, IRWINDALE

PACIFIC GAS AND ELECTR

SEPTEMBER

NATE Core & Gas Heating Training

(Four-Night Class)

Instructors: Mike Griffin / John Dalton

Tues., Sept. 7 - Part 1

Tues., Sept. 14 - Part 2

Tues., Sept. 21 - Part 3

Tues., Sept. 28 – Part 4

OCTOBER

NATE AC/HP Refrigeration

& Air Distribution Training

(Four-Night Class)

Instructors: Mike Griffin / John Dalton

Tues., Oct. 5 – Part 1

Tues., Oct. 12 – Part 2

Tues., Oct. 19 – Part 3

Tues., Oct. 26 – Part 4



SEPTEMBER

AC & HP Refrigeration Module

(Four-Night Class)

Instructors: Mike Griffin / John Dalton

Wed., Sept. 15 - Part 1

Thurs., Sept. 16 – Part 2

Wed., Sept. 22 – Part 3

Thurs., Sept. 23 - Part 4

OCTOBER

Air Distribution Module

(Four-Night Class)

Instructors: Mike Griffin / John Dalton

Wed., Oct. 20 - Part 1

Thurs., Oct. 21 - Part 2

Wed., Oct. 27 – Part 3

Thurs., Oct. 28 - Part 4

NOVEMBER

Non-Res ATE Training

(Two-Night Class)

Instructors: Mike Griffin / John Dalton

Mon., Nov. 1 – Part 1

Thurs., Nov. 4 - Part 2

Non-Res MATT Training

(Two-Night Class)

Instructors: Mike Griffin / John Dalton

Mon., Nov. 15 - Part 1

Thurs., Nov. 18 - Part 2

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Thurs., Nov.

Note: When registering for a training class please make sure you honor that commitment and show up on time and prepared. If you cannot attend, please call (818) 551-1555 and cancel in ample time. Thank you.

All Classes Are Being Off

Classes begin at 6:00 PM Pacific Time a Register at www.ihaci.



CLASS SCHEDULE

SERVICE (CAQI/QM/QS) & NORTH AMERICAN TECHNICIAN EXCELLENCE (NATE)

RIC COMPANY, STOCKTON

SOUTHERN CALIFORNIA EDISON, TULARE

SAN DIEGO GAS & ELECTRIC

MBER

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ht Class)

ch Bailey / TBA

16 - Part 2

22 - Part 3

23 - Part 4

OBER

Heating Training

ht Class)

ch Bailey / TBA

20 - Part 1 21 - Part 2

27 - Part 3

28 - Part 4

<u>MBER</u>

Refrigeration

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ht Class)

ch Bailey / TBA

3 - Part 1 . 4 – Part 2

10 - Part 3

11 - Part 4

SEPTEMBER

System Diagnostics Module

(Four-Night Class)

Instructors: Mitch Bailey / TBA

Wed., Sept 1 - Part 1

Thurs., Sept 2 – Part 2

Wed., Sept 8 – Part 3

Thurs., Sept 9 – Part 4

OCTOBER

NATE Core & Gas Heating Training

(Four-Night Class)

Instructors: Mitch Bailey / TBA

Mon., Oct. 18 - Part 1

Tues., Oct. 19 - Part 2

Mon., Oct. 25 - Part 3

Tues., Oct. 26 - Part 4

NOVEMBER

NATE AC/HP Refrigeration

& Air Distribution Training

(Four-Night Class)

Instructors: Mitch Bailey / TBA

Mon., Nov. 1 - Part 1

Tues., Nov. 2 - Part 2

Mon., Nov. 8 - Part 3

Tues., Nov. 9 - Part 4

SEPTEMBER

Chiller Module

(Two-Night Class)

Instructors: Mike Griffin / John Dalton

Wed., Sept. 1 - Part 1

Thurs., Sept. 2 - Part 2

Commercial Cooling Tower Module

(Two-Night Class)

Instructors: Mike Griffin / John Dalton

Wed., Sept. 8 - Part 1

Thurs., Sept. 9 – Part 2

OCTOBER

Boiler Module

(Two-Night Class)

Instructors: Mike Griffin / John Dalton

Wed., Oct. 6 - Part 1

Thurs., Oct. 7 - Part 2

Commercial Refrigeration Module

(Two-Night Class)

Instructors: Mike Griffin / John Dalton

Wed., Oct. 13 - Part 1

Thurs., Oct. 14 - Part 2

NOVEMBER

NATE Core & Gas Heating Training

(Four-Night Class)

Instructors: Mike Griffin / John Dalton

Tues., Nov. 2 - Part 1

Wed., Nov. 3 - Part 2

Tues., Nov. 9 - Part 3

Wed., Nov. 10 - Part 4

DECEMBER

NATE AC/HP Refrigeration & Air Distribution Training

(Four-Night Class)

Instructors: Mike Griffin / John Dalton

Wed., Dec. 1 - Part 1

Thurs., Dec. 2 - Part 2

Wed., Dec. 8 - Part 3

Thurs., Dec. 9 - Part 4

COSPONSORED BY

Institute of Heating and Air Conditioning Industries, Inc., Southern California Gas Company, San Diego Gas & Electric, Southern California Edison, and Pacific Gas and Electric Company















Indoor People

Continued from Page 30

Demanawa joined the firm be a mechanical engineer in the Philippines in 2004, to previous HVAC firm, J&J Air Conditioning. Demanawa also comes with credentials from SVCTE.



.

Donald Decker has joined International Environmental Corp. (IEC) as the vice president of sales in Oklahoma City.

"We will promote IEC's reputation with growth through new and existing markets by building new relationships with our channel partners," said Decker. "2020 was a year of challenges for many in the HVAC industry with lessons learned. However, 2021 is a year of opportunity and we will use those experiences to position IEC for participation in the new landscape and market rebound by differentiating ourselves from our competitors.

Decker brings more than 20 years of sales experience to his IEC position in a multitude of roles ranging from national accounts management to sales management and leadership. Decker was most recently with LG Electronics as the national director of corporate

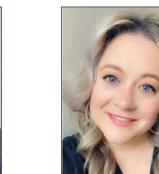
"IEC's proven track record of providing innovative and customized solutions within the hospitality, education, multi-family, and healthcare markets will thrive with new market opportunities and innovative products," said Decker. "The IEC culture and legacy were built by delivering customer expectations through designing, manufacturing, and delivering products to the HVAC industry and I'm excited to be a part of it."



DONALD DECKER

Jim Cooper, president/chief announced the promotion of **Sean**

Doug Matthews, Canarm vice president of HVAC, has announced his retirement in the



SEAN MCDOWELL

operating officer of Canarm Ltd., McDowell to vice president of Canarm's HVAC Business unit.

coming few years.

In his new position, McDowell will be responsible for HVAC sales, marketing, product development, manufacturing, sourcing development, and strategy. McDowell, an electrical engineer with a professional engineer designation, comes from Procter & Gamble. He will retain his responsibilities for all Canarm manufacturing plants in Canada, which also includes the Agricultural business unit.

.

IAC Supply Solutions Inc. recently hired Kelly McLure as a sales specialist. In this role – a new position at IAC – she will be responsible for developing IAC's outbound teleselling strategy. McLure will also work with IAC's marketing team to develop targeted campaigns to drive business growth. Her cross-functional role will provide support to IAC's industrial supply and construction segments across all IAC territories.

McLure brings more than ten years of sales experience to the IAC team. Before she joined IAC, McLure worked as a senior national account executive for a building automation and HVACR distributor in Bartlett, Tennessee. Her experience also includes senior sales and management positions with mechanical and plumbing contractors.

"Kelly's professional experience in sales and relationship management, as well as her organizational skills and technical knowledge,



KELLY MCLURE

with credentials from studying to employment honing his skills and instruction experience at another

DARYL DEMANAWA

Propane Council Continued from Page 27

ment, high-end restaurants, remote farms, and countless other applications.

"That's why propane is energy for everyone," adds Dotson. "Because everyone deserves access to energy. Everyone."

The Pro-Energy Icon that forms part of the logo is designed to recall the many users and uses of propane," Dotson says. "But it's also calling to mind a stylized landscape of the cleaner world it's helping to

The new brand platform is being introduced to national propane providers and state associations with video, direct mail, and marketing collateral that they can use to communicate the benefits of propane to their customers.

The many propane industry volunteers who helped us choose a new agency and develop the new brand proved themselves to be extremely strategic thinkers," says Erin Hatcher, senior vice president of marketing and communications at PERC. "With their help, Elevation accomplished an incredible amount of thoughtful work in a short amount of time.

We're excited to be forming this partnership as we continue to educate people about the many benefits of clean propane, the energy for everyone.'

Authorized by the U.S. Congress in 1996, PERC is a Washington, D.C.-based notfor-profit charged with leading propane safety and training programs. With collaboration and funds from the propane industry, the organization also invests in research and innovation for propane applications in the transportation, agriculture, power, residential, and commercial construction sectors.

are sure to prove beneficial as we develop our teleselling approach," said Darrell Smith, president of IAC. "Her focus on customer service and partner relationships will be a key part of making sure our business strategies support our customers in the best way possible."



JOHN CONWAY

Redwood Services announced that John Conway has joined Redwood as its chief operating officer to help guide and direct Redwood's strategy of identifying, acquiring, and growing partner companies.

Conway was most recently a part of the member-owned Nexstar Network, where he spent the past six years as an HVAC coach and resource.

"As a recognized and wellrespected leader in the industry, John's personal relationships with some of the best HVAC owners and operators in the country, as well as his depth of knowledge, should help us continue to attract and provide unmatched ongoing support to Redwood partner companies," said Richard Lewis, CEO of Redwood Services. "In addition to his experience as both a successful operator and strategic leader, John shares a passion for people - the cornerstone of Redwood's focus. We are very excited to welcome him to the team."

Conway has been involved in the HVAC and plumbing industries for more than 27 years. He began his career in Memphis working for his father's small HVAC company in 1994. In 1998, he purchased the business, growing it to \$10-million-dollar in sales by 2010. After selling the business in 2010, John remained with the company as general manager and grew annual revenues to over \$20

"I am thrilled to join Redwood Services and help deliver on the dream of building a network of passionate, people-focused companies," said Conway. "We see so much opportunity to attract likeminded owners and operators to join us in delivering a better service experience for their customers. Redwood can provide the capital

and expertise for our partners to expand their markets by providing quality customer focused service with trained technicians and stateof-the-art equipment."

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Dr. Barry Arkles, Gelest, Inc. Chair, Founder and CEO, is elected to membership in the National Academy of Engineering (NAE). Election to the NAE is "among the highest professional distinctions accorded to an engineer." Dr. Arkles is recognized for his "contributions to organosilicon materials and organometallic and biochemical reagents."

Dr. Arkles contributed scientific advances and inventions with positive impacts extending beyond the professional community to the global public. His record of innovation and accomplishments in applied materials science, surface chemistry and biotechnology is demonstrated by his contributions to medical devices, such as contact lenses, and semiconductor fabrication, particularly ILD (interlayer dielectrics) and interconnect metallization.

NAE membership recognizes outstanding individuals who have contributed to "engineering research, practice, or education, including ... significant contributions to the engineering literature' and to "the pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering, or developing/implementing innovative approaches to engineering

"Dr. Arkles's election to NAE membership recognizes the value of the characteristic hybrid chemicals technology he and Gelest have cultivated," said Mitsubishi Chemical Corporation (MCC) President and CEO Masayuki Waga. "We are proud of his achievement."

Dr. Arkles is a recipient of the American Chemical Society 2020 Frederic Stanley Kipping Award in Silicon Chemistry and a Fellow of the British Royal Society of Chemistry. He holds a B.S. in chemistry and Ph.D. in biochemistry at Temple University in Philadelphia.



DR. BARRY ARKLES

Help Wanted



Company Overview:

The R.E. Michel Company was founded in Baltimore, Maryland in 1935 as a supplier to the home heating oil burner industry. Still family owned and operated, we have grown to be one of our nation's leading wholesale distributors of HVACR equipment, parts and supplies and we have more than 250 locations nationwide.

For consideration, apply on our career page at REMICHEL.COM

Benefits include:

- Competitive pay
- Medical, Dental, Vision, Disability, 401K, Life and MORE!

Branch Manager Needed for Santa Maria, CA.

Responsible for effective and profitable management of personnel, inventory and customer service. Working with Regional

Help Wanted

Managers and sales representative to establish and meet sales goals, in addition to hiring, developing and training personnel.

Hiring: Outside Sales **Professionals**

Union City, CA, Fresno, CA and San Jose, CA

Responsibilities include:

- Calling on accounts
- Developing and building strong customer relationships
- Minimum Qualifications:
- 3 years sales experience required
- Knowledge or experience in HVACR required
- Valid Driver's License and reliable vehicle is a must
- Excellent people, communication and computer skills

Hiring: Counter Sales and Warehouse/

Drivers for Van Nuys, CA! Multiple openings available!

- Understand of heating and cooling matrix
 - Basic math skills
- Knowledge of material handling equipment
- Valid driver's license, safe driving record

• • • • • • • •

Help Wanted

CalCERTS -**Compliance Specialist**

CalCERTS is looking for high performing Compliance Specialists. Our team works collaboratively to assist our clients in navigating, troubleshooting and performing functions within the CalCERTS registry.

This position requires continuous learning and motivation to succeed. For more information go to

www.calcerts.com/jobs_at_calcerts.

Business for Sale

Small Residential/Light Commercial Service and Installation company serving San Gabriel Valley and North Orange County. Excellent customer base, 5 Star Yelp, Quickbooks Pro with online pay and billings. Great addition to existing business or for home base business. \$500K in service and installations. \$185,000 call or text 626-484-7199.

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