# INDOOR COMFORT

**JULY 2021** 

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NEWS

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HAPPY INDEPENDENCE DAY

## CEC Holds Hearings on 2022 Building Energy Efficiency Standards

Proposals will expand use of heat pumps, PV and battery storage systems.

By Ted Rieger Northern California Correspondent

The California Energy Commission (CEC) held three public hearings during the last

week in May to present and take comments on 45-day regulatory language for the proposed 2022 California Title 24 Building Energy Efficiency Standards, also known as the California Energy Code. The standards, updated every three years, are on schedule to be adopted by the CEC at an August 11 business meeting and to become effective

January 1, 2023.

A major focus of the 2022 standards is to begin the transition to all-electric heat pump (HP) systems and technologies for space heating and cooling to reduce gas/fossil fuel use and reduce carbon emissions from new California buildings. The proposed standards will address

HP baselines for single family residential buildings, low-rise and high-rise multifamily residential buildings, and selected nonresidential buildings. In addition, the proposed standards will expand the use of solar photovoltaic (PV) systems and battery energy storage systems to more building types.

In opening remarks, CEC Com-

missioner Andrew McAllister, lead commissioner for the building efficiency standards, said, "We're pivoting California toward a set of technologies designed to decarbonize our building stock. With the 2019 standards update, we initiated onsite solar photovoltaic

Continued on Page 14

#### **Indoor People**

# Mitsubishi Electric US Selects Corbo to Assume Role of President, CEO

Itisubishi Electric US, Inc. (MEUS) announced that Mike Corbo will assume the role of president and CEO of the Southern California-based company. Masahiro (Max) Oya will take on a newly

created role as chairperson of MEUS and will oversee all of the company's holdings throughout the Americas, and remain the chief representative, the Americas Region for Mitsubishi Electric



MIKE CORRO

Corporation. Oya previously held senior positions in Tokyo and at a Mitsubishi Electric group company in Pittsburgh.

"Under Mike's leadership, the company has experienced growth across all of its diverse businesses through

strategic collaboration, innovative products, a high standard of client

Continued on Page 30

#### **Features**

#### Vietnam Vet Surprised with New AC Unit for Memorial Day

allas, Texas native and Vietnam Veteran John Morgan and his wife Carol were surprised with a free HVAC unit to thank them for his service and dedication to our country. The Greater Dallas Veterans Foundation hand-selected John and teamed up with Air Pros USA, one of the fastest-growing heating, ventilation, and air conditioning (HVAC) repair and service companies in the nation, to provide the couple with a complete HVAC unit and installation at no charge.

"It was a pleasure for me

to serve my country and I'm humbled from the support of Air Pros and the Greater Dallas Veterans Foundation for their acknowledgement of my service and all those who fought and continue to fight for

this country," said John Morgan, Vietnam Veteran and McKinney, Texas resident.



AIR PROS SWITCH OUT VIETNAM VETERAN'S OLD UNIT WITH A BRAND NEW GOODMAN UNIT.

"We are grateful to have the

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#### SAVE THE DATE! TUESDAY, NOVEMBER 16, 2021

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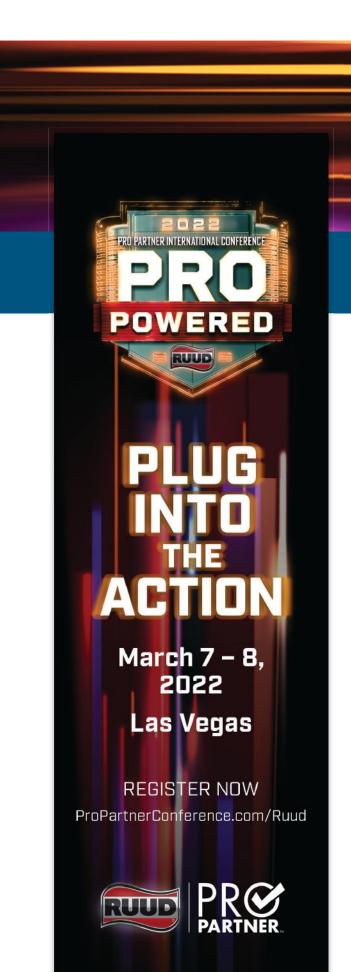
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# **Industry News**





#### CALIFORNIA



# CoolSys Acquires TRS-SESCO

**Brea, Calif.** – CoolSys has announced the acquisition of Thermal Resource Sales and Supermarket Environment Services Company

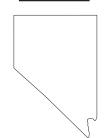
(TRS-SESCO).

"Our acquisition of TRS-SESCO represents an important step in our strategic growth plan by bringing new capabilities to our clients while introducing CoolSys into new industry sectors," said Adam Coffey, CEO of CoolSys. "As one of the premier HVAC-engineered solutions companies in the nation, TRS has established long-term client relationships and an outstanding reputation in supporting complex, mission-critical HVAC systems across various industries. The

SESCO side of the business provides industry-leading energy and sustainability solutions primarily to grocery retail customers. We are excited to welcome the TRS-SESCO team and their customers to the CoolSys family."

"We are excited to join CoolSys as this brings new advantages to our customers and employees," said Patrick McNamara, president of TRS-SESCO. "As TRS-SESCO becomes a CoolSys company, we will stay true to our roots while being able to offer the expanded resources that CoolSys provides as a nationwide company."

#### <u>Nevada</u>



#### Nevada Governor Signs New Water Conservation Bill

Las Vegas, Nev. – Gov. Steve Sisolak signed into law legislation supported by the Southern Nevada Water Authority (SNWA), local municipalities and business leaders that will help advance Southern Nevada's water conservation goals and water efficiency efforts.

Assembly Bill 356 prohibits the use of Colorado River water delivered by SNWA member agencies from being used to irrigate non-functional grass by 2027. This requires the replacement of nonfunctional grass – decorative grass in streetscapes, medians, parking lots and other areas where it is used for aesthetics and not recreational purposes – by Dec. 31, 2026.

"We're extremely appreciative of Gov. Sisolak and the Nevada Legislature for approving this measure, which will enable the community to expand on its commitment to conserving water in the face of ongoing drought conditions and climate change," said SNWA General Manager John Entsminger.

The SNWA has identified about 5,000 acres of unused, non-functional turf in the Las Vegas Valley. The new law does not apply to grass at single-family homes, where 1,000 acres of non-functional grass remain, nor recreational grass found at schools and parks throughout the community.

"By upgrading unused grass to

#### Ferguson HVAC, Day & Night Co-Sponsor "Win the Truck" Promotion



FREESE HEATING & AIR CONDITIONING WAS ONE OF THE WINNERS OF THE BRAND NEW TRUCK WITH CUSTOM WRAP.

One truck per area – Arizona, Nevada, Northern California and Southern California. \$30,000 value. Automatic entry with each purchase of motor-bearing unit qualified for one entry into the drawing for the truck.

"Ferguson Cares" initiative coincided with their Spring Corporate Promotion, the largest single promotion ever held, with over 20,000 entries to win a FORD F-150 SUPERCREW Truck, with custom company wrap on winner's truck.

"We've all had a rough 2020, Ferguson and Day & Night wanted to get some excitement going with this promotional giveaway. We got great customer feedback and lots of growth, upwards of 30%", says Calvin Merideth, Director of Sales at Ferguson HVAC. "We will continue to do this every season. The best part was to see the faces of the winners. Everyone participated, and some of our smaller business customers had a chance at a big win.

Winners from Arizona, Nevada, Northern and Southern California were announced and presented with the complimentary custom wrap trucks. They include:

- Sandra & Rob Benson, Multiple Services Heating and Air Conditioning, Dewey, Ariz.
- Robert Freese, Freese Heating & Air Conditioning, Hayward, Calif.
- Enrique Gallardo, E&G Air Conditioning, Montebello, Calif

water-smart landscaping, we can save more than 9.5 billion gallons of water annually, which represents about 10 percent of our total annual water supply from the Colorado River at Lake Mead," Entsminger said.

By comparison, resort hotels along the Las Vegas Strip and throughout Southern Nevada collectively consume about 4 percent of the community's water supply.

To implement and coordinate the required turf replacements, the SNWA Board of Directors will appoint a nine-member advisory committee, comprised of representatives from the business community; owners of office parks, industrial or commercial properties; community associations; multi-family housing; environmental organizations; and golf industry.

Entsminger said businesses

and community associations should take advantage of the SNWA's Water Smart Landscapes Rebate program (WSL) to convert unused grass to water-smart landscaping. WSL provides a cash incentive of \$3 per square foot of turf removed. Since its launch in 2000, businesses and residents have replaced about 198 million square feet of grass with drip-irrigated landscaping.

"Our research has found more than 70 percent of homeowners support their HOA's efforts to replace grass with drip-irrigated landscaping," Entsminger said. "Residential customers have been doing their part to replace grass through the Water Smart Landscapes program, and this legislation will help the rest of the community to do the same."

Entsminger said the legisla-

Continued on Page 6



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# **Industry News**

#### **Continued from Page 4**

tion was needed to help spur the community into additional action to reduce non-functional grass landscapes and conserve water resources.

"Replacing non-functional turf from Southern Nevada will allow for more sustainable and efficient use of resources, build resiliency to climate change, and help ensure the community's current and future water needs continue to be met," Entsminger said.

WSL is one of many SNWA incentive programs and ordinances geared to encouraging water conservation throughout the community. These include mandatory seasonal watering schedules and fines levied against property owners who waste water. To learn more, visit snwa.com.

#### ARIZONA



#### Forrest Anderson Recognized Among 'Best of the Desert'

Phoenix, Ariz. – Forrest Anderson Plumbing and A/C (Forrest Anderson) recognized their employees for being named AZCentral's "Best of the Desert" first place winner in both AC/Heating and Plumbing in the West Valley of Phoenix.

"It was our amazing customers who put this award in our hands," said Audrey Monell, president of Forrest Anderson. "We thank them for welcoming us into their homes and recognizing our dedication to hard work and strong ethics. I am so proud of my team for being committed to excellence and going the extra mile to take care of our customers."

The awards were presented to Forrest Anderson and other winners at a gala on May 20, celebrating the winners and finalists across a variety of industries.

"We were proud to celebrate the evening with our incredible peers, who have all worked so hard during the pandemic to serve their customers and teams," Monell said. "Our company is always thinking of ways to improve our services and stay true to my grandfather's core values to treat people right, do our best job, and always do the right thing."

Forrest Anderson, along with all winners and finalists, will be featured in The Arizona Republic Newspaper's Best of the Best commemorative magazine issue, which was released May 30.

#### **TEXAS**



# Lennox Announces Feel The Love 2021 Nominations

**Richardson, Texas** – Lennox Industries is now accepting nominations for its annual Feel The Love

GREE

program. For over a decade, Lennox has celebrated deserving community heroes by installing heating or cooling equipment free of charge in the U.S. and Canada. In the past year, Lennox dedicated more resources to benefit first responders, medical professionals, frontline workers and all who went above and beyond to keep their communities safe during the COVID-19 pandemic.

Lennox encourages individuals and local organizations to nominate deserving families, neighbors and community heroes in need of a safer, more comfortable home through new HVAC units. Selected recipients will receive brand new heating or cooling equipment during this year's Feel The Love Installation Week, taking place October 9-16, 2021.

"Now more than ever, families and homeowners are seeing firsthand the importance of indoor air quality," said Kim McGill, Vice President of Marketing at Lennox Industries. "At Lennox, we are honored to provide consistently clean, perfect air to our community heroes through the generosity of our dealers and our Feel The Love program."

The Feel The Love program is made possible through the continued partnership and collaboration of the Lennox dealer network across North America. Since the inaugural Feel The Love program in 2009, Lennox and its dealers have completed over 1,500 free installations, with 210 installations occurring in 2020 alone.

According to a recent survey commissioned by Lennox, over half (51%) of homeowners plan on spending more time inside their homes in the coming months. Additionally, 60% of those surveyed reported they are prioritizing good air quality in their home now more than they did a year ago.

With families continuing to spend more time at home, Lennox is committed to helping homeowners realize the possibilities of rethinking the air you breathe and ensuring comfortable, clean air in every room. For more information about how Lennox is bringing perfect air to deserving households and to nominate a member of your community, visit www.FeelThe-Love.com.

Lennox Residential, a division of Lennox International Inc. (NYSE: LII), is in constant

Continued on Page 8



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This program is funded by California utility customers and administered by Southern California Gas Company under the auspices of the California Public Utilities Commission. Program funds, including any funds utilized for rebates or incentives, will be allocated on a first-come, first-served basis until December 31, 2021 or until such funds are no longer available. This program may be modified or terminated without prior notice. The selection, purchase, and ownership of goods are the sole responsibility of customer. SoCalGas makes no warranty, whether express or implied, including the warranty of merchantability or fitness for a particular purpose, of goods selected by customer. Customers who choose to participate in this program not obligated to purchase any additional goods offered by manufacturer, vendor, service provider, or any other third party. Eligibility requirements apply: see the program conditions for details.

# **Industry News**

#### **Continued from Page 6**

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The Love. For more information about how Lennox is redefining air, visit Lennox.com/Residential.

#### **Huntsman Arlington Campus Undergoes Major Expansion**

The Woodlands, Texas - Huntsman Building Solutions announced that it has completed a major expansion and enhancement to its Arlington, Texas, manufacturing campus.

"The recent formation of Huntsman Building Solutions combined the two legacy Demilec and Icynene-Lapolla spray foam companies with the power of the Huntsman brand, bringing a more diverse and ex-

pansive customer experience," said Simon Baker, president of Huntsman Building Solutions. "Our Arlington facility now expands our manufacturing footprint with a robust family of building envelope and roofing solutions, which is undoubtedly now one of the largest spray foam manufacturing facilities in the world."

The expansion of Huntsman Building Solutions' Arlington site brings it to over 800,000 square feet, encompassing three adjacent structures. The expansion effort has enabled the company to integrate domestic manufacturing of all of its products - spray foam insulation, spray foam roofing, pour-inplace foams and coatings - onto one U.S. campus.

"This facility now leverages the best practices, state-of-the-art automation, and operational excellence of all three companies," said Baker. "Notably, the integration dramatically expands our product output capacity and there is additional capacity to grow the campus even further in the future."

The expansion was completed in two phases and a third is planned, which will establish a 75,000-square-foot distribution center onsite, serving all of the company's U.S. customers.

The enhanced Arlington campus will continue to complement operations at the Huntsman Building Solutions Canadian factory in Boisbriand, Quebec, another manufacturing facility the company is currently investing in expanding as it plans for significant growth.

#### Samsung HVAC **Contributes \$40K** of Equipment to **Texas Office**

Roanoke, Texas - Ductless and VRF manufacturer, Samsung HVAC, headquartered in Roanoke, Texas, has collaborated with the developers of The Metroport Chamber located in downtown Roanoke to provide individual zone control, energy efficiency, and innovative indoor units to a brand-new office building in an up-andcoming area.

Designed as a memberfocused building, the new Roanoke location offers coworking space, lease space, and conference room availability for the Chamber's membership and staff. The new offices directly meet The Metroport Chamber's mission to create, promote, and enhance opportunity and growth for the business community. The member-focused building will serve as an incubator for entrepreneurs and small businesses to start, grow, and build their companies.

The building offers two open workspace areas for co-working, seven fully furnished leasable offices, and three conference rooms with audio and visual equipment. The new space is conditioned by a Samsung Variable Refrigerant Flow (VRF) heat recovery system. The Samsung VRF system provides simultaneous heating and cooling, including individual room control - allowing the Chamber to condition each space as needed.

Samsung HVAC provided two of their flagship products to condition the space, the 360 Cassette and the Wind-Free<sup>™</sup> 4-Way Cassette. The 360 Cassette features a circular design that blends harmoniously into any type of interior design space. The 360-degree directional winds created by the round heat exchanger distributes air into the space evenly. Additionally, WindFree™ advanced cooling technology provides Metroport Chamber occupants with a cool and comfortable space while allowing for optimal energy efficiency without the discomfort of direct cold airflow experienced in many conference rooms.

Developer on the project is The Integrity Group, LLC with RGA Architects, Inc. as the

**Continued on Page 10** 

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# **Industry News**



SAMSUNG 360 CASSETTES WERE INSTALLED IN THE METROPORT CHAMBER'S OFFICE LOCATION IN ROANOKE, TEXAS.

#### **Continued from Page 8**

architect and G&A | McAdams Co. as the engineer.

#### Daikin One Cloud Services Launches

Houston, Texas – Daikin announced the launch of Daikin One Cloud Services, which is a cloud-based tool that allows Daikin Comfort Pro contractors to configure, monitor, diagnose, and adjust the performance of Daikin systems remotely, potentially eliminating the need to send a truck and technician to a home.

Exclusively available to DCPs, Daikin One Cloud Services is a cloud-based portal for office computers and a mobile web app for smart devices. DCPs who have been given permission by the customer can remotely monitor system data ranging from temperatures, humidity, and indoor air quality to heating and cooling demand, plus critical and minor errors. Technicians can access not only current, live data but also his-

tory back to the day the system was cloud-connected.

"Being able to diagnose and adjust system performance without entering a customer's home can be a game-changer for DCPs, one that can help build customer confidence and loyalty," said Dennis Thoren, Daikin, vice president of controls engineering. "It allows our DCPs to provide their customers with advanced levels of service and more peace of mind than previously possible. For example, if a customer's cloud-connected system issues an alert, notifications can alert technicians immediately via the Daikin One Cloud Services phone app."

Homeowners choose what level of access to give technicians, who can be granted complete 24/7 monitoring and adjustment access, to 24/7 monitoring settings only coupled with limited two-hour access windows. Permissions can be changed at any time. If the homeowner shares complete system access, technicians can not only see and monitor the system, but also make adjustments via thermostat menus, including the installer set-up menu – all without having to go to a customer's home.

"Certainly, that's a time and money saver for DCPs, but homeowners will also see this as a real advantage," said Marc Bellanger, Daikin, director of marketing and communications. "It's contactless service that doesn't disrupt their lives, while still enabling technicians to keep their system optimally tuned and high-performing."

Daikin One Cloud Services requires a Daikin One+ Smart thermostat. Homeowners need an active Daikin One Home app on their smart device that's connected to their system via the Daikin Cloud. The service is compatible with conventional split systems, Daikin Fit, mini- and multi-split systems, VRV, and VRV LIFE systems.

#### **N**ATIONAL



# Trane Launches Sustainable Futures Corporate Strategy

La Crosse, Wisc. – Trane Technologies announced that it has launched Sustainable Futures, a multiyear corporate citizenship strategy to expand underrepresented students' access to Science, Technology, Engineering, and Math (STEM) education; support healthy classrooms; and promote skill building for green careers. As part of its 2030 Sustainability Commitments, the company is committing \$100 million and 500,000 volunteer hours to the effort by 2030.

'Our focus is to help young people gain exposure, support, and resources to realize brighter futures," said Marcia Avedon, Trane Technologies chief human resources, marketing and communications officer. "Sustainable Futures is core to our company's Opportunity for All pillar in our 2030 Sustainability Commitments. This strategy will mobilize our company's resources, unique expertise, and the talents of our team members to build greater visibility and pathways to green and STEM careers, particularly for underrepresented groups."

Sustainable Futures focuses on the following three areas:

- Ensuring healthy learning environments through indoor environmental quality and access to healthy food
  - Accelerating student success

with early education in STEM and sustainability and enhanced childhood literacy

 Expanding career pathways by exposing students and adults to exciting and rewarding green and STEM careers

Trane Technologies kicked off Sustainable Futures with multiyear grant commitments of \$1 million each to Project Scientist and Project Drawdown.

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#### Fujitsu Supports Make-A-Wish, Wounded Warrior Project

Pine Brook, N.J. – Fujitsu General America Inc. has recently committed to supporting two national charities: Make-A-Wish and Wounded Warrior Project

Make-A-Wish is a 40-year-old nonprofit organization that has granted over 330,000 wishes to children with critical illnesses. WWP honors and empowers injured veterans and their families.

"Fujitsu is known as a global leader in ductless mini-splits, but we're actually much more," said president and chief operating officer, Matt Peterson. "We also supply VRF, unitary ducted, and commercial rooftops as a full line equipment supplier. But we're also much, much more than that. We support causes that are near and dear to our hearts. One of them is the Wounded Warrior Project and the other is Make-A-Wish. If you know our culture, supporting those that have fought for our country and children with critical illnesses is a no-brainer to us. It's the right thing to do. We hope you will find a way to join us in these incredible causes as we strive to make the world a better place."

# Cochrane Supply Launches New E-Commerce Site

**Detroit, Mich.** – Cochrane Supply & Engineering announced the official re-launch of CochraneSupply.com.

Several years in the making, the new website acts as a resource library with more than 41,500 building control software and hardware products from more than 100 manufacturers. Users can search through the entire Cochrane Supply catalog in a variety of ways, including by product name or number, manufacturer or category, with resulting product pages featuring standardized

product descriptions and downloadable documentation. As the company continues to roll out its e-commerce site plans, users can expect to also find associated available training on pertinent product pages as well.

"The goal is to give users digital access to the same inventory, training updates, and support that have already differentiated us as being more than just a distributor, but also a technology solutions provider in the building controls and automation space," said Kris Born, Cochrane Supply's e-commerce manager.

"We have spent years crafting our vision of a truly valuable web experience that would support our mission that we've had in place since 1967, which is to make our customers successful," said Scott Cochrane, president and CEO of Cochrane Supply & Engineering, as well as President of Canada Controls. "The technology and capabilities within our industry continue to accelerate at a rapid pace, and we wanted to create an equally adaptable digital experience to guide industry professionals to the resources they need, when they need it. And this initial launch is just the start."

# **Granite Comfort Buys Green Air Care**

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**New York, N.Y.** – Granite Comfort announced that it has acquired Green Air Care.

"The acquisition of Green Air Care expands Granite Comfort's footprint into our fourth geographic market," said Alex Black, CEO of Granite Comfort. "We have been searching for the right partners in Chicago, the third largest market in the United States, and are excited to have Erik and Larry and their staff join the Granite Comfort team as we continue to grow. Green Air Care is a strong HVAC and air purification company with tremendous entrepreneurial spirit."

"Partnering with Granite Comfort will allow us to adopt best practices and differentiate ourselves by offering our customers the unique EASE Comfort lease products," said Larry Kichatay, president of Green Air Care. "With a strong focus on customer service, our Green Air Care team will provide our customers with the most comprehensive HVAC replacement options in the industry."

Kichatay and Babayev will continue in their current positions as president and installation director of Green Air Care, respectively, post-transaction.

Continued on Page 12





The JP Series is a 115 volt low-cost/high SEER heat pump that's perfect for a wide variety of applications from a small home office to a tiny home

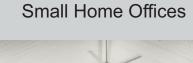
## JP Series 115V System Key Features and Benefits

- Efficiency: 17.0 SEER/9.0 HSPF
- Available capacities: 9,000/12,000 BTU/H
- Blue fin coating on outdoor unit for increased coil protection and longer life
- Four fan speeds: Low, Medium, High, Super-high
- INVERTER-driven heat pump
- Cooling operation range: 14° F to 115° F
- Heating operation range: -4° F to 75° F
- Recommended fuse/breaker size (outdoor unit): 15A
- Multiple control options available:
  - Hand-held Remote Controller (provided with unit)
  - kumo cloud ® smart device app for remote access
  - · Third-party interface options
  - Wired or wireless controller
- 12-hour timer
- ECONO COOL mode
- AUTO restart
- Washable air filter
- Optional anti-allergy enzyme filter





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Sun Rooms



**Alternative Dwellings** 



Garages



**Tiny Homes** 

# **Industry News**

**Continued from Page 10** 

#### MSA Safety to Buy Bacharach Inc.

Pittsburgh, Penn. - MSA Safety Incorporated announced that it has entered into a definitive agreement to acquire Bacharach Inc. and its affiliated companies (Bacharach) from FFL Partners in a transaction valued at \$337 million.

"The acquisition of Bacharach accelerates our long-term growth strategy to expand our addressable market in applications that align with MSA's mission and core technologies," said Nish Vartanian, MSA chairman, president and CEO. "With a leading detection portfolio and strong brand, Bacharach provides access to attractive end markets while aligning exceptionally well with MSA's product and manufacturing expertise."

MSA Senior Vice President and Chief Financial Officer Ken Krause will serve as the executive sponsor of the acquisition. In this capacity, Krause will have oversight of the Bacharach integration process and work to ensure acquisition synergies are achieved.

"The acquisition of Bacharach is an exciting opportunity to add further resilience in our gas detection portfolio," Krause said. "Bacharach's end markets align with regulatory tailwinds that support growth through various economic cycles. The company's complementary technology and manufacturing processes also provide an opportunity to enhance productivity across a number of areas."

"MSA's global reach will play a

significant role in driving future growth for Bacharach," said Matthew Toone, Bacharach CEO.

"With complementary technology, similar missions, and a like-minded stance on sustainability and the environment, we see this acquisition as a great match for both Bacharach and for MSA.

The transaction is expected to close in early July.

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#### **Green Dot Home Services Acquires Island Mechanical**

Wilmington, N.C. - Green Dot Home Services has acquired Island Mechanical Services of Wadmalaw Island, South Carolina, as of June 4, 2021. The expansion of Green Dot will continue to provide growth and HVAC service across the Carolinas, where they will now serve Kiawah Island, Seabrook Island, and the immediate surrounding areas of South Carolina. This will be their second acquisition of 2021 and fourth acquisition over the last six months. The purchase of Island Mechanical Services will add to the South Carolina portfolio, including Columbia and Mount Pleasant locations.

"We are excited to add to our incredible team by acquiring Island Mechanical Services, who has built a phenomenal reputation over the last 20 years," said Chris Jones, Green Dot CEO, and head of merger and acquisition. "They are an ideal fit into our mission to become the brand that the consumer wants to work with and the brand the employees want to work for."

#### **Air-Con Opens New Store in Miami**

Miami, Fla. - Air-Con International has announced the official opening of a new store in Miami located at 7108 NW 50th ST, Miami, Florida 33166. Air-Con International has expanded its Florida operations to serve the Miami com-

The new Air-Con International store will feature the full range of Air-Con brand Energy-Star-certified A/C products including mini-splits, multi-splits, ducted units, and VRF commercial units. The new Miami store will also offer export products that include Mitsubishi Heavy and Air-Con brand air conditioning for foreign clients.

Air-Con International welcomes residential and commercial clients to the Miami store with opening hours of 8:00 a.m. -5:00 p.m., Monday through Friday.

# Wrench Group, Form Partnership

• • • • • • • •

Cooling & Plumbing of Cincinnati, Ohio. Terms of the transaction were not disclosed.

"Williams Comfort Air has established and expanded on a reputation of excellence over their 75 years in business, incorporating top home services companies in nearby markets along the way," said Ken Haines, Wrench Group CEO. "By adding them to Wrench Group, not only are we able to expand our footprint nationally, but we're bringing on a business that knows how to grow and thrive over the long term."

"Joining the Wrench Group family is a win-win for our team and clients across all of our companies," said Jacob Huck, president of Williams Comfort Air, Jarboe's and Thomas & Galbraith. "Our clients get the same outstanding service and local expertise they've come to expect over the years, while benefiting from the added convenience and better experience of Wrench Group's technology and operations support, all of which will enable us to grow and serve more homeowners."

#### **Emerson Celebrates 100th Anniverary of Copeland Brand**

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St. Louis, Mo. - Emerson is celebrating this year as the 100th anniversary of its Copeland brand.

Emerson completed a multimillion-dollar expansion of its Copeland engineering facility in Sidney, Ohio. This investment created 110,000 square feet of new engineering lab space for product research, development, and testing of compressors, electronics,

and other technologies for the global HVACR industry. Much of the work in the Sidney labs focuses on compressor technologies that enable more environmentally responsible refrigerants with lower global warming potential (GWP) to meet and exceed efficiency standards and regulations.

"The Copeland brand has a proud legacy and even brighter future," said Jamie Froedge, executive president of Emerson's Commercial and Residential Solutions business. "Air conditioning and refrigeration technologies are increasingly crucial and necessary foundations of daily life around the world. Through our Copeland brand and our inventive approach, Emerson is using our stewardship position and deep history in this space to drive innovation for a more sustainable world."

The Copeland brand traces its history to inventor Edmund Copeland, who founded a company in Detroit, Michigan, in 1921. When the business faced challenges during the Great Depression, its assets were sold and the operations were relocated to Sidney, Ohio, in 1937. In Sidney, four of the company's young engineers purchased the business and its compressor patent. Emerson acquired Copeland in 1986.

Emerson made significant investments in the development of a new scroll compressor product Copeland was working on at the time of the acquisition and, in 1987, introduced the first scroll compressor sold under the Copeland brand. The success of the product led to the introduction of a family of Copeland scroll compressors for applications ranging from residential and light commercial air conditioning to refrigeration systems for the food and healthcare industries and marine containers.

# **Williams Comfort Air**

Indianapolis, Ind. – Wrench Group LLC announced a partnership with Williams Comfort Air of Indianapolis. The partnership includes three additional regional brands that Williams owns and operates: Mr. Plumber, also in metro Indianapolis, Indiana; Jarboe's Plumbing, Heating & Cooling of Louisville, Kentucky; and Thomas & Galbraith Heating,

(ComStar) ComStar has the LOWEST GWP, non-flammable retrofit replacements for R-410A, R404A, and R507 ComStar International proudly announces RS-51 (R470B) and RS-53 (R470A) as the lowest GWP replacements for R404A, R507, and R410A in existing systems. ComStar's RS-51 has a GWP of 717. This is less than 20% of the GWPs of R404A and R507. ComStar's RS-53 is the world's only retrofit replacement for existing R410A systems. At 909, RS-53's GWP is effectively 56% ower than R410A. EPA, SNAP approved, and ASHRAE A-1 certified. CALL 1-800-328-0142 NOW FOR SPECIAL PRICING PROGRAMS Email: service@comstarproducts.com | www.lowgwpref.com www.comstarproducts.com

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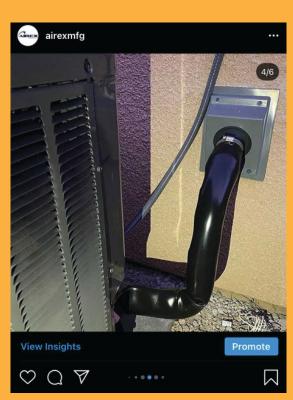
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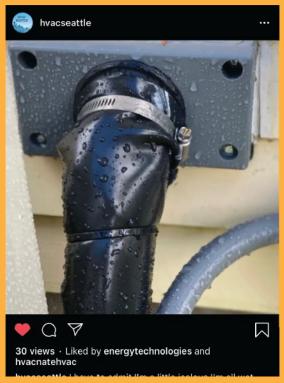
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#### Rules:

- Post Your Install Photos to Instagram and tag @Airexmfg #myairexinstall and you're automatically entered to win!
- •The more installs you post the better your chances of winning!
- •Must use the Airex Pro-system Kit.
- •Must be an HVAC Installer.
- •Posts with the most likes go to the voting round.





## CEC Holds Hearings on 2022 Building Energy Efficiency Standards

#### **Continued from Page 1**

(PV) generation requirements for low-rise and single-family residences. With this code update, we will take advantage of 2019 code changes and move further toward electric technologies in the building sector as we try to decarbonize across our whole economy." McAllister said costs continue to decline for low carbon technologies. He said energy efficiency, demand response and grid load flexibility also continue to be top priorities for California.

#### **Heat Pump Baselines**

CEC engineer Mazi Shirakh, who is the lead staff member for building decarbonization,

presented an overview of reasons and proposals to begin the transition to HP technologies for space conditioning and water heating in new buildings. He said a major goal of the 2022 standards update is: "Adopt performance standards baselines that are based on, or encourage, heat pumps to achieve building energy efficiency."

General proposals include: revise the prescriptive compliance path available for building projects to include only HP technology in specific circumstances; and revise the "standard design" used for the modeling-based performance compliance path available for building projects to establish the performance baseline based on HP technologies in specific circumstances.

Shirakh acknowledged that this shift in technologies will require market adjustments as HP systems currently make-up a low percentage of HVAC market share. There are concerns about sufficient supply chain availability and service expertise, and many builders and consumers have limited experiences with HPs

Shirakh said because HPs can be less efficient in very cold temperatures, exceptions have been made for California's Climate Zone 16 that includes mountain areas of the Sierra Nevada and eastern California, and in some cases, for Climate Zone 1 on the North Coast.

For single family residential buildings, the CEC proposes adding new prescriptive requirements for HP

space heating in Climate Zones 3, 4, 10, 13, and 14. The CEC also proposes prescriptive requirements for HP water heaters in Climate Zones 1, 2, 5-9, 11, 12, 15, and 16 in standard designs.

For low-rise multifamily residential buildings (three habitable stories or less), baseline requirements are HPs for Climate Zones 1-15, and ACs with furnaces for Climate Zone 16.

For high-rise multifamily residential buildings (four or more habitable stories) HPs will be required for Climate Zones 2-15, and dual-fuel HPs for Climate Zones 1 and 16.

The CEC proposes prescriptive requirements for space conditioning with HP baselines for selected

**Energy Efficiency Starts Here** 

nonresidential buildings in the following categories:

- Retail and Grocery Buildings: HPs in Climate Zones 2-15; ACs with furnaces in Climate Zones 1 and 16 sized at less than or equal to 65,000 Btu/hr; and dual-fuel HPs in Climate Zones 1 and 16 sized greater than 65,000 Btu/hr.
- School Building Spaces: HPs in Climate Zones 2-15; Dual-fuel HPs in Climate Zones 1 and 16.
- Office, Financial Institution, and Library Building Spaces: HPs in Climate Zones 1-15; ACs with furnaces in Climate Zone 16 sized less than or equal to 65,000 Btu/hr; and dual-fuel HPs in Climate Zone 16 sized greater than 65,000 Btu/hr.
- Office Spaces in Warehouses: HPs in all climate zones.

#### PV and Battery Storage

Prescriptive requirements for solar PV systems paired with battery storage systems were first introduced in the previous 2019 energy standards for residential buildings. For the 2022 standards, the goal is to expand solar PV and battery storage system requirements to newly constructed multi-family residential buildings, and for selected nonresidential buildings that include: hotel-motel, tenant-space, office, medical office or clinic, restaurant, grocery store, retail store, school, and theater/auditorium/convention center buildings. A few exceptions are that there will be no PV and battery storage requirements for buildings with solar access roof areas that total less than 3 percent of the building's conditioned floor space area, or in areas that have high snow loads on roofs. In addition, there are also exceptions for offices, schools and warehouses in climate zone 1.

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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

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• Improve energy efficiency standards for commercial

**Other Proposed Changes** 

The CEC is proposing the

following other amendments to

• Add new requirements that

mixed fuel buildings be electric

ready, meaning that electrical

connections and other features

needed to allow the use of

of initial construction.

non-combustion equipment

options are installed at the time

the 2022 Energy Standards:

**Continued on Page 18** 

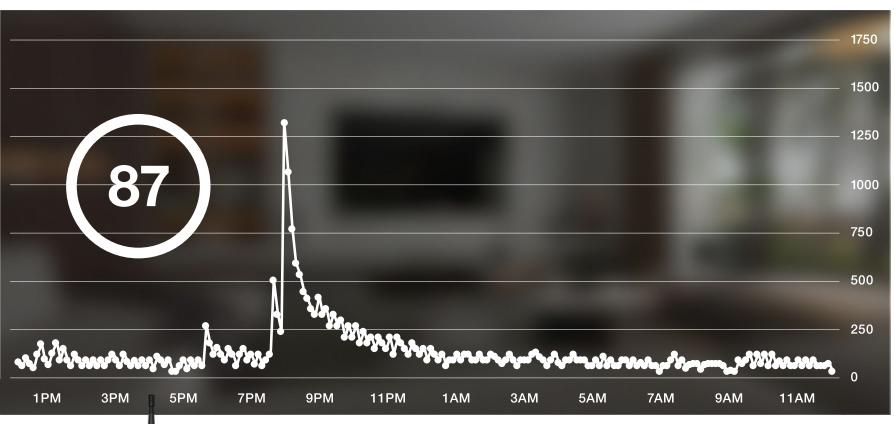
### Webinars are FREE of charge and online registration is required.

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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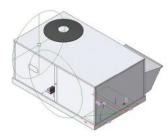
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### **Editorial Focus**

#### **Carrier Revit 1**



Carrier has launched a Revit®1 configurator to customize commercial air conditioning system drawings. Carrier is pleased to offer the configurator to provide HVAC professionals the ability to uniquely configure their Carrier HVAC unit Revit drawings based on key project criteria, such as cooling capacity, size, factoryinstalled options and voltage. Carrier is a part of Carrier Global Corporation (NYSE: CARR), the leading global provider of healthy, safe and sustainable building and cold chain solutions.

Once a model is created using the new configurator, it is then available for download and integration with Autodesk® 2 Revit, the leading architectural design software, along with other key file formats and documentation to assist in the design process. By customizing the products, the user can save time normally needed to configure the unit within the Revit software. The full model number of the unit is generated with the Revit, making sure the correct configuration is used in the project.

The configurator is publicly available for Carrier outdoor packaged products, including electric, gas and heat pump systems, as well as Carrier light commercial split system units. The public availability of the tool allows for uniquely fast and easy configuration on-thego, and Carrier representatives are available to provide assistance at any point in the process.

**More information:** www.carrier. com/Revit.

#### **Coleman Point Choice**



The **Coleman**® HVAC brand of Johnson Controls brings value and rugged reliability to the rooftop unit market with the launch of Coleman® Point™ Choice. The 15-27.5 ton units exceed Department of Energy (DOE) 2018 guidelines by up to 25% and already surpass

**Commercial Cooling** 

future DOE 2023 part-load standards by nearly 10% to reduce energy use.

"Our Choice rooftop units are built to deliver the outstanding performance and exceptional durability Coleman is known for at an economical price point," said Eric Newberg, director of commercial product management, commercial ducted systems, Johnson Controls. "The flexible design is ideal for both new construction and the retrofit market and features a footprint that can replace approximately 70% of the competitive installed base without the need for costly transition curbs."

Choice rooftop units provide greater system design flexibility to meet the demands of diverse applications. An optional four-stage IntelliSpeed™ discrete fan control allows units to deliver 15% higher IEER ratings than some competitive high-efficiency units. Additional airflow strategies, including constant-volume (CV), variable air volume (VAV) and Continuous Reset Single Zone (CRSZ).

Additional features include:

- A wide range of gas heat options including full modulating gas heat with a 2.85 to 1 turndown ratio and 1% incremental change of heating capacity.
- Multiple outdoor air options, including both factory and field installed versions of low-leak damper economizers, constant volume powered exhaust and modulating powered exhaust.
- A lightweight design that is up to 33% lighter than existing Coleman models and up to 22% lighter than competing products.
- Smart Equipment enablement with a prepackaged control platform that maximizes control and efficiency while extending equipment life and reducing operating costs. Units seamlessly integrate with leading building controls systems, including Verasys\*. An optional Mobile Access Portal (MAP) gateway with Wi-Fi\* hotspot provides access to commissioning, configuration and maintenance logs using a mobile smart device.

"We're committed to meeting the unique requirements of Coleman customers in the commercial HVAC space by delivering innovative, cost-effective and dependable comfort solutions," said Tim Brusseau, director of strategic national accounts, Johnson Controls. "Our heritage of quality and durability is crafted into every Coleman HVAC Point Choice rooftop unit to provide long-lasting comfort you can count on."

The new Coleman units are de-

signed, engineered, assembled and tested in America at the state-of-the-art Johnson Controls Rooftop Center for Excellence in Norman, Oklahoma. The systems are backed by some of the best warranties in the business, including a standard 1-year parts warranty, 5-year compressor and electric heat limited warranties, 10-year aluminized heat exchanger limited warranty and a 15-year stainless steel heat exchanger limited warranty — providing customers with greater peace of mind.

**More information:** www.ColemanAC.com/PointChoice.

# Emerson X-Line Series



Emerson (NYSE: EMR) introduces the Copeland Scroll™ Digital Outdoor Refrigeration Unit, X-Line Series. This outdoor refrigeration unit provides reliable refrigeration for medium-temperature, walk-in coolers and display cases which are commonly found in convenience stores (c-stores), small-format stores and restaurants.

The X-Line Digital Series is designed to provide substantial annual energy efficiency improvements compared to legacy equipment and technology, thanks to its proven Copeland Scroll compressor technology, largecapacity condenser coils, variablespeed fan motor control and smart controls. The X-Line Digital unit has continuous capacity modulation from 20% to 100%, resulting in precision temperature control, reduced compressor cycling and lower energy consumption. The Xline Digital unit can be applied to multiple evaporator systems.

The X-Line Digital unit can maintain box temperatures within +/-0.5 F, which allows food retail and foodservice establishments to precisely maintain the temperature of their food.

The units feature advanced onboard protection and diagnostic controls in a quiet, compact enclosure. It can alert and record alarms independently or communicate with facility management control systems. The X-Line Digital's slim profile, lightweight design and wall-mount option give

operators the flexibility to install the unit even in locations that are very space-constrained. This can also help to lower installation costs and to potentially avoid expensive system design workarounds or relocation issues.

"The X-Line Digital was designed with c-store, small-format store and restaurant operators in mind," said Julie Havenar, product manager - condensing units, Emerson. "With rising energy rates and ever-increasing customer expectations, the pressures on operators to be competitive are as strong as ever - prompting many to reevaluate their refrigeration strategies. With the X-Line Digital condensing units, we set out to redefine refrigeration and to help ease those pressures with improved energy savings, reliability, and lower maintenance and installation

**More information:** https://climate.emerson.com/en-us/products/refrigeration/commercial-refrigeration/copeland-indoormodular-solution.

#### **EVAPCO AT Atlas**

**EVAPCO's** AT Atlas counterflow cooling towers are designed in large, preassembled modules for ease of rigging and installation. As the most energy efficient modular cooling tower on the market, the AT Atlas is unmatched in CTIcertified capacity per cell.

The Atlas' modular concept and superior performance are ideally suited to projects at or above 4,000 tons. Atlas systems require fewer cells to achieve high cooling capacities, reducing the need for piping and electrical connections by up to 50%.

Atlas series cooling towers range in capacity from 1,484 to 2,386 nominal tons per cell – providing up to 60% more cooling capacity per cell, while requiring up to 40% less fan power per ton of cooling – when compared to traditional factory assembled cooling towers.

Available in Type 304 or Type 316 stainless steel – including the entire basin, support structure,



vertical columns, louver frames and plenum. Site installation supervision is available from factorytrained technicians.

**More information:** www. evapco.com.

#### Nortek Air Solutions CDU1200

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Nortek<sup>™</sup> Air Solutions has introduced the CDU1200, a 1,200-kW coolant distribution unit (CDU) that's the single most powerful, compact CDU on the planet, and the newest addition to its ServerCool<sup>™</sup> data center liquid cooling product line.

The CDU1200's small 58 (d) x 35 (w)-inch (1,475 x 900-mm) footprint supplies an industryfirst 1.2-MW of cooling capacity in a density of 14.6-ft2 (1.3-m2) that helps attain optimum power usage effectiveness (PUE). The CDU1200 is a perfect new construction or retrofit liquid cooling solution for high performance computing (HPC) and enterprise data centers, as well co-location, corporate network edge, government, research and other data center formats. In an age where liquid cooling is required to support growing chip power densities, the CDU1200's kW/ft2 capacity is unrivalled when directly compared to competitor products.

The CDU1200's compatibility with existing ServerCool CDU's, such as the CD6 300-kW floor mount and the CD5 50-kW rackmount, enables modular growth of existing systems. The CDU1200's superior pumping power also allows it to be placed outside of the white space.

The CDU1200's highly-efficient heat exchanger technology thermally transfers primary loop cooling to the secondary loop's liquid cooling circuit for distribution to IT rack cold plates.

The CDU1200 offers two redundant 15-hp stainless steel pumps with many energy-efficient features including electronically-commutated (EC) motors and

Continued on Page 18

# SERVING THE WEST'S HVAC NEEDS SINCE 1967



All Dial® Mini-Split Systems are AHRI Listed, ETL Certified and are backed by a 7 years compressor / 2 years parts warranty.



### **Editorial Focus**

#### **Continued from Page 14**

variable frequency inverters that efficiently modulate optimum performance flow rates for the system's 320-gpm (1,211-L/m) capacity.

System water purity is optimized with a standard 50-micron washable ultra filter/strainer and an optional ultraviolet (UV) light biological contaminant sterilization system.

The CDU1200 has an onboard programmable logic controller (PLC)-based microprocessor using custom-written, proprietary software based on ServerCool's decades of liquid cooling control experience. The system's full instrumentation of tripleredundant pressure transducers and temperature sensors offer unprecedented pinpoint control

and monitoring of vital statistics, such as primary and secondary loop discharge/return temperatures, data hall temperature and humidity, pump PSI and many other critical parameters. Operation parameters are accessed from the CDU1200's user-friendly, seven-inch (17-cm) color LED touchscreen HMI or a remote monitor. The unit's control infrastructure features compatibility and plug-and-play connections with Modbus, BACnet<sup>™</sup> and other building automation system (BAS) protocols.

The CDU1200 has a narrow Delta-T temperature which helps facilitate eligibility for the Green500 supercomputers list. It's rated nominally with a 90°F (32°C) primary and a 7.2°F (4°C) approach Delta-T and exceeds 2.5-MW capacity with an approach of 14.4°F (8°C).

Nortek's commitment to the CDU1200's quality control and short lead times is illustrated by a newly-built state-of-the-art, dedicated production line established at Nortek Global HVAC's world-class 350,000-square-foot (32,516-m2) Dyersburg, Tenn., manufacturing facility. The Demand Flow Technology-certified plant uses quality control and reliability processes, such as multiple checkpoints each with the unit's CAD drawings on a computer monitor. A 100-percent computer-automated testing system prevents human error.

The CDU1200 design also includes:

• Requires less life space than a CRAC when converting a data center to higher cooling and

higher density liquid cooling;

- Robotically welded, corrosionresistant ASIS 316 stainless steel is used instead of some competitors' plastic piping that potentially melts or leaks easily under higher pressures. Piping infrastructure is subjected to a stringent series of factory pressure and hydraulic quality control testing;
- Maintenance is minimal and requires only periodic filter/strainer checks;
- Modulating actuator valve can control dew point and prevent condensation:
- Compatible with all brands of chillers, evaporative coolers, cooling towers and other chilled water central plant formats;
- User-definable LED alarms for leak detection/prevention and performance criteria;
  - Fixed flow meters on primary and

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secondary circuits;

- Two-year standard warranty-one of the industry's longest;
- Optional manifolds and dripless smart connector accessories fit all cold plate piping configurations.

More information: www. servercool.com.

YORK YZ



Johnson Controls is reaching advanced levels of efficiency at even higher capacities with the launch of its expanded YORK® YZ Magnetic Bearing Centrifugal Chiller platform. Extending the use of magnetic bearings up to 2,020 tons gives more customers the opportunity to experience reduced driveline maintenance and lower operat-

This expansion in capacity builds on the award-winning YORK® YZ chiller that is optimized around R-1233zd(E) and

**Continued on Page 22** 

#### **CEC Hearings** Continued from Page 14

and industrial process loads, including computer room air conditioning, refrigerated areas, fan systems, compressed air

- Improve nonresidential and multifamily efficiency standards for building envelopes (e.g. exterior walls, windows, roofs and floors), fan and duct systems, HVAC controls, boilers and service water heating systems, indoor and outdoor lighting systems, and grid integration equipment such as demand
- Improve minimum standards for residential kitchen
- Update and enhance requirements relating to duct sealing and ventilation.
- Add language to require operational guides and maintenance of local exhaust systems in a multifamily building.

Information on the CEC Building Energy Efficiency Standards, and the 2022 update, can be accessed through the general standards webpage at: http://www.energy.ca.gov/ title24/.



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# **Technical Training**

# Growing Green Technicians Part 141: Evaluating Refrigeration & Air Flow in Comfort Cooling Equipment

By Jim Johnson Contributing Editor

(Illustrations courtesy of RSES)

In the last segment of this series our discussion focused on the fundamental idea of balance in DX refrigeration equipment. In this installment, we'll apply this concept to taking a green approach and evaluating the performance of comfort cooling equipment. **Figure One** shows the data collection points we'll be discussing.

First, note the set of compound gauges attached to the access valves (shown to the left of our illustration at the outdoor segment of a typical split system). Checking both the high and low pressure of the refrigeration system, as we discussed in last month's segment, is a fundamental step to making sure that there is a balance between the flow of refrigerant and the heat load that exists due to the temperature, volume, and velocity of the air flow through the indoor coil. However, as our illustration also shows, a series of temperature tests (outdoor ambient and discharge line, along with indoor dry bulb and wet bulb temperatures) that provide us with valuable information about efficiency of the system.

Checking the temperature of the air entering the outdoor coil and applying that factor to a temperature/pressure chart is a fundamental step to ensuring that the high side

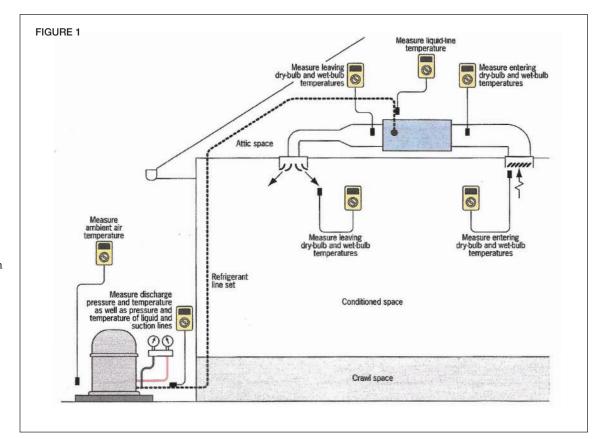
operating pressure of the system is correct. And accomplishing an accurate temperature test of the discharge line is also important. This is a test that should be accomplished about 6 inches from the compressor, and the maximum reading you should get is 225°F.

The bottom line on this test is this: If you're getting a 225-degree reading at this point on the discharge line, then the temperature inside the compressor itself is going to be approximately 300°F. And, at that level of heat and compression, the equipment will be operating properly. However, a temperature more than 300 degrees in a compressor crankcase will mean that some of the oil is vaporizing. And when oil is not retained in its liquid form, it affects the lubrication process, which leads to premature compressor

When it comes to accomplishing a discharge line temperature test, a quality, professional-grade digital meter that employs a pipe clamp thermocouple accessory, such as we're showing in **Figure Two**, will give you the accurate information you need.

A pipe clamp thermocouple device will also give you an accurate temperature reading of the liquid line temperature, which is accomplished at the point where the line enters the indoor coil.

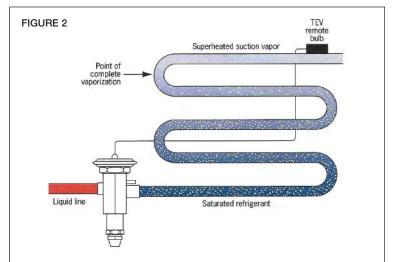
A factor to keep in mind about this test is that the temperature of



the liquid line should not be more than 15 degrees higher than the ambient temperature. If it exceeds this differential, then the temperature of the refrigerant entering the metering device is too high, which will lower the overall efficiency of the equipment by causing a drop in the net refrigeration effect....in essence a reduction in the transfer of heat from the conditioned space to the outdoors.

In addition to refrigerant piping temperature tests, a Type-K thermocouple device (shown in **Figure Three**) that connects to a professional grade digital meter that has a temperature and accessory feature will allow you to accomplish dry bulb temperature tests, and the same kind of accessory device equipped with a wet sock will provide wet bulb temperature information.

Using these accessory devices at the appropriate points on the return and supply ducts will tell you if there is a problem in the duct system that could be affecting the balance of the refrigeration system and its design to handle the proper heat load on the coil. A significant rise in the dry bulb temperature between the return air grille and the duct near the





indoor unit indicates air leakage into the return duct, or insufficient insulation.

Likewise, a significant dry bulb temperature rise between a location in the supply duct near the indoor coil and a supply register will indicate duct leakage or insulation problems in the supply side of the air handling system. Taking wet bulb readings at these locations, then applying the dry bulb and wet bulb information to a psychometric process that allows you to calculate humidity, will prove return duct leakage if there is an increase in humidity between the two test points.

# Vietnam Veteran Continued from Page 1

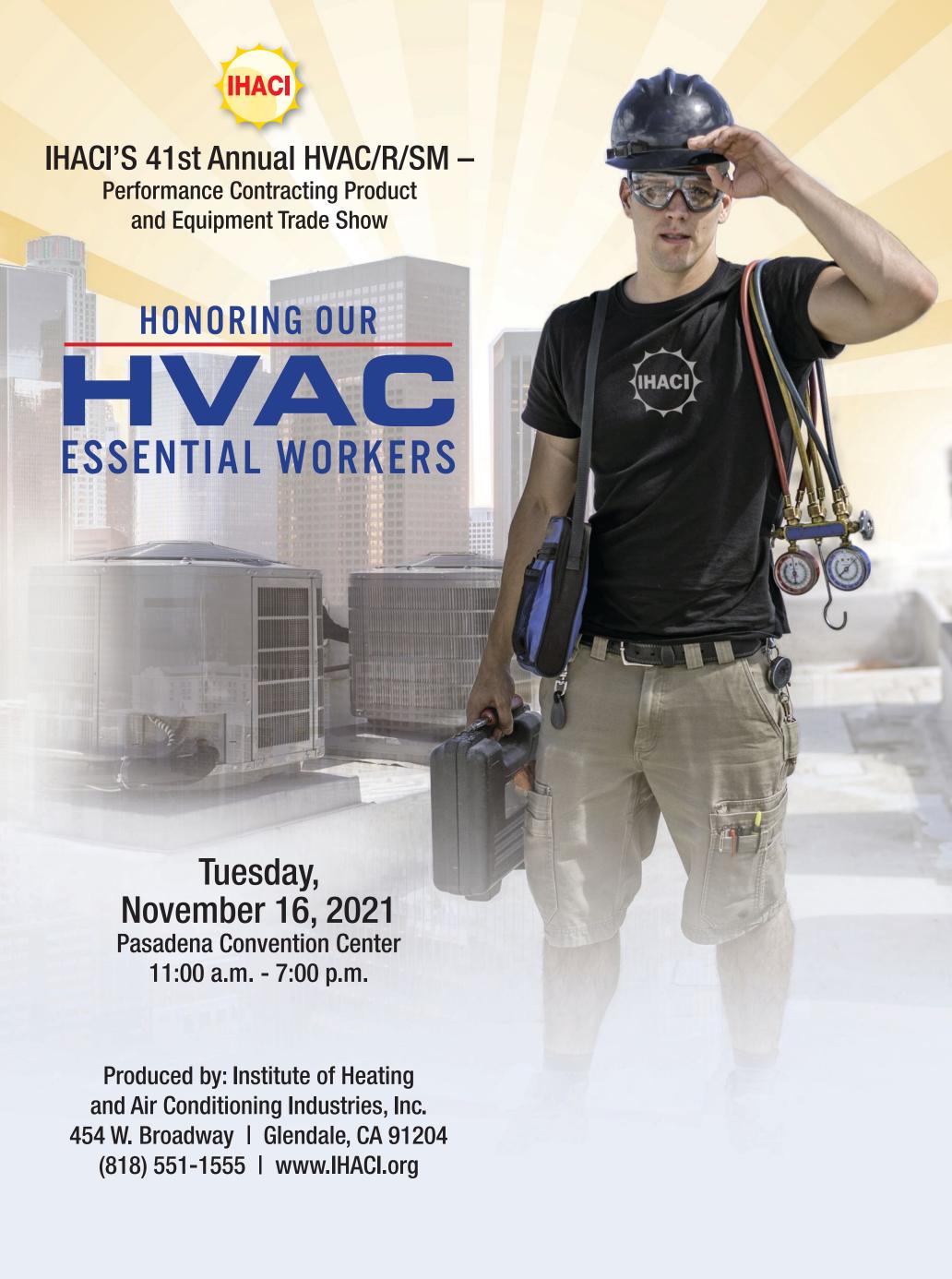
opportunity to give back and serve a local military hero like John by providing a brand-new HVAC unit this Memorial Day," said Alan Ross, Local Service Manager at Air Pros USA. "This is just a small way for Air Pros to express our gratitude for the service John, and so many others, have given to our country."

"At the Greater Dallas Veterans Foundation, we collaborate with other organizations, like Air Pros, and communities to honor Veterans throughout the year," said David Iverson, Chairman of the Greater Dallas Veterans Foundation

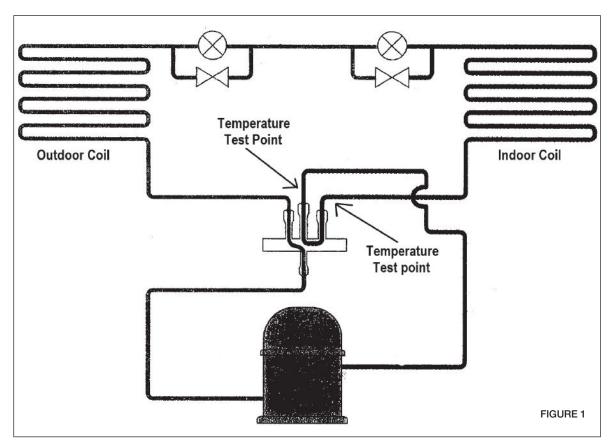
Air Pros USA is continuously finding ways to give back to the

community, including Veterans and military service members, to thank them for their service. For more information or details on franchise opportunities visit www. airprosusa.com. The Greater Dallas Veterans Association creates opportunities for them to honor Veterans and Veteran Ideals to shape positive community change. Visit www.GDVF.us to read about their events.





# **Troubleshooting**





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# A Second Opinion on a Compressor Diagnosis

By Jim Johnson Contributing Editor

In this month's troubleshooting situation, your customer is requesting a second opinion on a proposed repair to their air source heat pump. They originally called for service when they noticed that the house wasn't cooling down as they would like, and the technician who responded reported that, in his opinion, since the high side and low side pressure differential wasn't correct, the compressor was no longer able to pump properly. Due to the price of the proposed repair, they decided to call for a second opinion.

When you arrive in the mid-afternoon, you confirm that the coil temperature splits are inadequate, and the system is unable to obtain the necessary comfort level. When you check the system pressures, you also note some irregularity, which prompts you to follow up with an entering and leaving test at the reversing valve tubing connections shown in **Figure One**. Your results are as follows:

 $\dots$ Temperature on compressor

discharge line: 200 °F.

...Temperature on the line from the indoor coil to the reversing valve assembly: 50 °F.

...Temperature on compressor suction line exiting the reversing valve to the compressor: 60 °F.

Your troubleshooting question: What is the next step you need to take to repair 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 icntroubleshooting@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."

#### Answer to Last Month's Troubleshooting Problem

The system is not able to handle the load after the renovation that expanded the retail space in the store. The winner of last month's problem is:

Cesar Huerta

#### **Editorial Focus**

**Continued from Page 18** 

utilizes an inherent series counterflow design with patented heat exchangers. The YZ chiller design tackles real world energy challenges with the largest operating map in the industry to support the most challenging climates — including the Middle East where the YZ chiller recently launched. The extended platform, up to 2,020 tons, is optimized around the environmentally friendly, low GWP refrigerant, providing a future-focused solution today.

"With energy efficiency driving customer decisions, we are pleased to offer the extended capacity YORK" YZ chiller to deliver ultimate performance while dramatically reducing cost of ownership," said Laura Wand, vice president and general manager, applied equipment, Johnson Controls. "These higher-tonnage systems

support the same real-world operating conditions customers have come to expect from YORK, while delivering lower maintenance costs with the use of magnetic bearing technology."

The advanced, aerodynamic design includes two, single-stage compressors that are paired in a series counterflow arrangement, reducing the lift on each compressor to improve overall full-load and off-design performance. The dual compressor design allows for each compressor to run individually, providing redundancy and improved off-design performance at lower loads. The design also increases turn down capabilities at low loads by continuing to provide cooling on one circuit in the unlikely event of a failure or an unplanned shutdown.

**More information:** www.York. com/Next.





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## California Legislation Progresses to Increase CSLB License Fees

By Ted Rieger Northern California Correspondent

At a teleconference meeting June 3, the Contractors State License Board (CSLB) received status updates on 2021 California legislation supported and monitored by the Board. A bill to increase contractor license fees is progressing through the legislature. However, a bill to require workers' compensation insurance for licensed contractors was held in committee, and will not be active again until 2022. In other business, the Board reviewed budget and operational issues, and elected new officers for 2021-22.

#### License Fee Increase Legislation

A fee increase bill, SB 607 Roth (D-Riverside), to allow the CSLB to increase license fees with an effective date of January 1, 2022 passed from the Senate to the Assembly in early June. This bill would also increse the contractor's license bond from \$15,000 to \$25,000 effective January 1, 2023. CSLB chief of legislation Michael Jamnetski said CSLB's umbrella agency, the Department of Consumer Affairs (DCA), is committed to supporting and passing the bill as it also includes fee increases for other DCA boards.

This bill would allow CSLB to increase the statutory minimum and maximum ranges for fees by about 25 percent. Active renewal fees would be higher for larger corporate licensees than for sole/individual owner licensees.

As a state special fund agency, CSLB relies entirely on fees set by statute or regulation and collected from licensed contractors and applicants. CSLB's main revenue source is license renewal fees that are nearly 70 percent of total revenue. CSLB faces a projected structural budget imbalance due to insufficient revenues from current fee levels to fund the Board's programs and services. The new fees will allow CSLB to maintain financial solvency and restore funding reserves.

The CSLB implemented an expenditure reduction plan to save \$7.5 million in Fiscal Year (FY) 2020-21 to address reduced revenues and the anticipated budget shortfall. On June 3, the Board approved a plan to save another \$5 million during FY 2021-22, largely through reduced payroll by not filling 35 staff vacancies. These actions were taken to keep the CSLB budget on track until fee increases can take effect.

#### Update on Other 2021 Legislation

AB 569 Grayson (D-Concord) – Civil Penalty Fine Increase, Letters of Admonishment. This CSLB supported bill would increase the civil penalty fine limit for specified violations of contractors law from \$5,000 to \$8,000 and would increase the enhanced civil penalty fine limit from \$15,000 to \$30,000. This bill would also authorize CSLB to include additional minor violations in a Letter of Admonishment (LOA) for the same contractor. Existing

law allows CSLB to issue a LOA to a contractor for less egregious violations that do not pose health and safety risks or high sums of damage to consumers, but it limits LOAs to a single violation. This bill moved from the Assembly to the Senate in April.

#### Mandatory WC and Other Bills Stalled Until 2022

Jamnetski explained that many bills introduced this year have been held in committee, making them "2-year bills" to be considered again during the 2022 legislative session. This occurred because legislative leaders have limited the number of bills this year that each assemblymember or senator can move to the opposite house to 12, in order to focus on high priority issues. Consequently, several CSLB-related bills will not be heard again until 2022, including the following:

SB 216 Dodd (D-Napa) - Mandatory Workers' Comp Coverage. This CSLB supported bill would initially require three license classifications - C-20 HVAC, C-8 Concrete, and C-49 Tree Service contractors - to obtain and maintain workers' compensation (WC) insurance even if the contractor has no employees. Beginning January 1, 2025, all active licensed contractors and applicants would be required to obtain and maintain WC insurance and CSLB would no longer accept WC exemptions.

Two bills introduced to increase the CSLB \$500 minor work exemption for requiring a contrac-

tors license: AB 899 Cunningham (R-San Luis Obispo) and SB 304 Archuleta (D-Pico Rivera) have been held in committee as 2-year bills. One bill would also authorize the amount of a "service and repair contract" to increase to a maximum of \$1,500 from the current \$750. The Board previously voted to oppose both bills.

AB 1026 Smith (R-Hesperia) that would require the CSLB to provide a 50 percent reduction in the initial license fee for honorably discharged U.S. military veterans is now a two-year bill.

## New Board Officers, Women in Construction Committee

The Board elected an all female slate of new officers to serve oneyear terms beginning July 1, 2021 for FY 2021-22.

Chair Susan Granzella, of Sacramento, has served as a Public Member representative on the Board since 2014, and has actively served on each of the Board's five committees. She held several executive management positions with Visa, Inc. prior to her retirement in 2014.

Vice Chair Mary Teichert, of Granite Bay, was appointed in 2019 as an "A" General Engineering Contractor representative on the Board. She has been the COO at Teichert Inc. since 2013, where she has worked since 2004. Sacramento-based Teichert is a family-run construction company in business since 1887.

Secretary Diana Love, of Palmdale, was appointed in 2019 as the Public Member, Senior Citizen Organization representative on the Board. She is a member and past president of the Los Angeles County Commission for Older Adults, and is a national district liaison for the AARP.

The Board's Advisory Committee on Women in Construction, that includes Mary Teichert and "C" Specialty Contractor representative James Ruane of San Bruno, initiated a partnership between the CSLB, the North State Building Industry Association, and the California Capital Women's Business Center. This partnership hosted a three-part series of educational meetings this spring to help women and minorities enter the construction trades and included information on applying for, and the benefits of, becoming a licensed contractor. A working group is exploring funding opportunities to hold future events and provide outreach, and to reduce barriers to licensing of women and minoriteis.

#### **Online Operations Expand**

CSLB has been taking steps to offer online processing for more license application and renewal functions. In 2020, online renewals became available for sole owner licensees and for Home Improvement Salespersons (HIS). Contractors are increasingly using online services and it was reported that 40 percent of renewals are now processed online. The CSLB is making changes to allow 95 percent of licensees to renew online. In addition, contractors can pay fines for citations online.

# **Industry Events**

# ISH China & CIHE Concludes in Beijing, Welcoming 980 Exhibitors

ISH China & CIHE ( China International Trade Fair for Heating, Ventilation, Air-Conditioning, Sanitation & Home Comfort Systems) concluded its three-day run on May 14, 2021, after welcoming 69,243 visitors and 980 exhibitors, and covering 95,000 square

"We are excited to be back to facilitating business interactions for the HVAC industry, particularly within the Greater China region," said Richard Li, general manager of Messe Frankfurt (Shanghai) Co. Ltd. "This year, the fair successfully aligned itself with the development of China's digital and smart markets, driven by the national government's new 14th

Five Year Plan which highlighted green initiatives and infrastructure goals. These targets not only improve the national business environment, but also expedite more HVAC-related projects, putting emphasis on diversifying renewable energy production and consumption, and offer greater opportunities for HVAC suppliers worldwide."

"We have been participating in ISH China & CIHE for many years, and it has been a great platform for not only promoting our brand but also launching new products as well as technologies," said Hu Yincong, general manager, Jürgen Schlösser Armaturen GmbH Representative Office of

China. "We are very pleased to report the visitor flow has exceeded our expectations. The fair has always been a great networking platform to meet our target buyers, to exchange technology and development trends, and most importantly gain market feedback to understand buyers' needs. As the world is recovering from the healthcare crisis, IoT and digitization targets highlighted in the latest Five Year Plan will without a doubt aid the growth of our business and drive our product development to new heights."

"I work in the property development industry and this is my first time attending the fair," said Tenny Xu, company representative, Nice-

Flame Technology (Shanghai) Co. Ltd. "I was delighted to see a good selection of HVAC manufacturers, both domestic and international, gathered under one roof. I have noticed both the heat exchange and wall hung boiler industries have changed a lot, mainly in appearance, size, and efficiency, and they now have great cost performance ratios. Moreover, China's environmental standards and carbon emissions policies are not only a global responsibility, but move the industry forward. I am very pleased with the fair as there are many different products and brands on display and I will return again next year."

The trade fair co-organizers'

top priority remained the health and safety of fair attendees, hence added measures were practiced at the fairs. These included real-name authentication during registration, on-site temperature checks, frequent sanitization of fairground facilities, and distancing measures for forum/seminar audiences, amongst others.

The next ISH China & CIHE will take place from May 9-11, 2022, once again at the New China International Exhibition Center in Beijing. A further ISH event in China, ISH Shanghai & CIHE, will be held on August 31 – September 2, 2021, at the Shanghai New International Expo Centre.

# **Green Technologies**

# Washington State Climate Bill Aims to Curb Hydrofluorocarbons

Washington State Gov. Jay Inslee recently signed a package of climate bills including HB 1050, a bill to regulate Hydrofluorocarbons (HFCs). Sponsored by Rep. Joe Fitzgibbon, the bill (dubbed the Climate Priorities Package) sets a maximum GWP threshold and applies strict regulations for HFCs. The legislature first regulated HFCs in 2019.

"There are safer alternatives to these chemicals. Since we first adopted our standards in 2019, we have seen manufacturers step up to the plate with alternatives, states across the county adopting our legislation, and the U.S. Congress taking bipartisan action to accelerate the transition away from these chemicals," said Fitzgibbon.

The U.S. Congress passed a bill in December of 2020 to require an 85% economy-wide phasedown of the HFC refrigerant supply over the next 15 years. This will avoid the equivalent of over 4.7 billion metric tons of

CO2 by 2050.

Washington state has cemented its leadership role on HFCs with this bill, which calls for transitioning new cooling systems to more climate-friendly alternatives and makes significant strides toward improving management and disposal of refrigerants," said Christina Starr, senior policy analyst at the Environmental Investigation Agency. "States have an essential role in advancing U.S. climate action by adopting laws like HB 1050, which supports ambitious federal implementation of the HFC phase down nationwide."

The reduction called for in HB 1050 is expected to reduce the climate impact of refrigerants used in air conditioners by roughly 70% and in commercial refrigeration systems by around 90%. The law will ban the use of HFCs with a GWP of over 750 in all stationary air conditioning systems by 2026, similar to regulations recently approved by the

California Air Resources Board. The bill also directs the Department of Ecology to set up a refrigerant management program to safely manage and dispose of HFCs going forward.

According to AHRI, the bill adds a provision that the specified deadlines would only apply if the state building code council adopts ASHRAE and UL safety standards (ASHRAE 15, 15.2 and 34, and UL standard UL 60335-2-40 edition 4) into the state building code before January 1, 2023.

"We are very pleased to have worked with Representative Fitzgibbon on legislation that provides sufficient planning time and the necessary tools not only to enable the use of low GWP refrigerants, but also to align with the national transition under the American Innovation and Manufacturing (AIM) Act mandate," said Helen Walter-Terrinoni, vice



WASHINGTON STATE GOV. JAY INSLEE SIGNS HIS CLIMATE PRIORITIES PACKAGE, COMPOSED OF HB 1050, HB 1091 AND SB 5126.

president of regulatory affairs for AHRI.

"We've got a heck of a job to do in the years to come. Our climate commitment, made by our legislature in 2020, is to cut climate pollution by over 50% in the next nine years, on our pathway to net-zero climate pollution by 2050. It won't be easy, but these bills go a long ways to getting us there," said Inslee.

# Johnson Controls Selects R-454B for Ducted HVAC, Scroll Chillers

After research, testing, and evaluation, Johnson Controls has selected R-454B, a lower global warming potential (GWP) refrigerant, to replace R-410A in its ducted residential and commercial unitary products as well as air-cooled scroll chillers. Systems using the new refrigerant will be available for Johnson Controls, YORK, Luxaire, Coleman, Champion, TempMaster, Fraser-Johnston, Guardian, Evcon, and Quantech branded products in North America, as well as specific international markets where codes are in alignment.

This decision was made as the HVAC industry is preparing to phase out high-GWP refrigerants, such as R-410A, which are now being formally addressed by the Environmental Protection Agency (EPA) through the recently passed American Innovation and Manufacturing (AIM) Act. The AIM Act directs the EPA to phase down U.S. hydrofluorocarbon (HFC) production and use by approximately 85% over the next 15 years.

"Utilizing R-454B was a clear decision, but one that took years of in-depth research, testing, and evaluation," said Chris Forth, executive director of regulatory, codes and environmental affairs, Ducted Systems, Johnson Controls. "This

decision maximizes environmental benefits, which will help to avoid, if not completely avert, a second, near-term transition for the unitary sector. As the AIM Act phasedown schedule progresses, higher-GWP fluids such as R-32, while viable today, have the potential to be eliminated as an option due to their high-GWP values. Johnson Controls will continue to evaluate lower-GWP alternatives for future possibilities."

In addition to reducing environmental impact, R-454B is more compatible with existing R-410A equipment designs, requires less or similar refrigerant charge, and can reduce the energy use of HVAC systems and improve system efficiency.

"It's important to note that these pending mandates from the EPA and the California Air Resources Board (CARB) would only apply to the sale of new residential and commercial unitary equipment as well as air-cooled scroll chillers," said Forth. "As the pending regulations stipulate a specific manufacturing cutoff date of January 1, 2025, for residential and light commercial unitary products and January 1, 2024, for air-cooled scroll chillers, existing R-410A equipment built prior to that date can be sold and installed indefinitely."



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#### **S**EPTEMBER

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(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

#### A DESCRIPTION AND DESCRIPTION OF THE PARTY NAMED IN COLUMN TWO IN COLUMN

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

**IHAC** 

#### 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

#### SEPTE

System Diagn

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Instructors: Mit

Wed., Sept

Thurs., Sept

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NATE Core & Gas

Instructors: Mit

Wed., Oct.

Thurs., Oct.

Wed., Oct.

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NATE AC/HP

& Air Distribu

(Four-Nig

Instructors: Mit

Wed., Nov.

Thurs., Nov

Wed., Nov.

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.



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## <u>MBER</u>

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ch Bailey / TBA

15 - Part 1

16 - Part 2

22 - Part 3

23 - Part 4

#### OBER

**Heating Training** 

ch Bailey / TBA

20 - Part 1

21 - Part 2 27 - Part 3

28 - Part 4

#### **MBER**

Refrigeration

tion Training

ch Bailey / TBA

. 4 - Part 2

10 - Part 3

11 - Part 4

ered as Webinars

nd are subject to change

org (Training)

#### **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

\*\*Exam: Saturday Nov. 13 @7:30AM

\*\*: IN PERSON EXAM IF CALIFORNIA / EDISON APPROVED

#### JULY

**System Diagnostics Module** 

(Four-Night Class)

Instructors: Mike Griffin / John Dalton

Wed., July 7 - Part 1

Thurs., July 8 - Part 2

Wed., July 14 - Part 3

Thurs., July 15 - Part 4

#### AUGUST

**System Performance Module** 

(Four-Night Class)

Instructors: Mike Griffin / John Dalton

Wed., Aug. 4 - Part 1

Thurs., Aug. 5 - Part 2

Wed., Aug. 11 - Part 3

Thurs., Aug. 12 – 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

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# **Product Spotlight**

#### Fieldpiece Instruments Leak Detectors



Fieldpiece Instruments announces the launch of two new leak detectors, Infrared model DR82 and Heated Diode model DR58. The two new Fieldpiece leak detectors are highly sensitive, durable and more reliable than anything else on the market. Designed for field use, they are easy to read in bright sun or low indoor light with large, bright blue LCD displays for leak information. The displays include bar graphs and numerical values. In addition, they have long lasting batteries for a full day of testing, and both the leak detectors and the included case are rugged and made to last.

Designed with the HVACR pro in mind, the new leak detectors include uncompromising features such as high sensitivity, multiple refrigerant detection, and audible alarms as well as a flashing lighted tip for an easy visual indicator. The Infrared model DR82, gives technicians superior sensitivity in the field - <0.03-ounces per year. To pinpoint the leak, the user sweeps the area with the DR82 IR Leak Detector resulting in the unit sensing a change in refrigerant levels so the user doesn't have to manually change the sensitivity. The DR82 has the most consistent leak detection across all refrigerants making it easy for the technician to locate the leak in any situation. The Infrared sensor is designed to last about ten years, one of the longest-lasting sensors on the market today. Also, the DR82 has the added protection of a replaceable water-blocking filter that keeps moisture and contaminants from reaching the sensor, preventing contaminant-related failure. The rechargeable 10-hour lithium-ion battery powers the unit for a full day of testing.

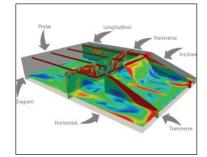
The new DR58 Heated Diode Leak Detector has a state-of-theart heated diode sensor that is very sensitive to CFCs, HFCs, HCFCs, HFOs, and blends, delivering sensitivity better than 0.03-ounces per year. A USB rechargeable lithium-ion battery powers the DR58 for up to 18 hours on a single charge. Technicians can check the amount of battery life left when starting up the unit and on the fly. The DR58 triggers on absolute refrigerant concentration. The instrument defaults to auto zeroing mode when switched on and refreshes every two seconds until a leak is detected. Technicians can also switch to manual zeroing mode to help pinpoint leaks, even in contaminated areas.

"Finding and fixing leaks on a system not only helps eliminate the venting of refrigerants into the atmosphere, it is another way to make sure charge related problems are minimized between scheduled maintenance calls. We now offer the best infrared and heated diode leak detectors in the industry," said Charlotte Loomis, Sr. Marketing Manager, Fieldpiece.

Like all of Fieldpiece's instruments, the new leak detectors allow HVACR pros to work more effectively with more information. Both a visual (flashing tip) and audible alarm on the wand alert the HVACR pro when a refrigerant leak is detected. The pros have the option of muting the audible alarm by pressing the two buttons. The large LCD display shows a numerical value on leak size and a bar graph indicating the intensity of the leak. The backlit LCD display can be seen in dark places or in direct sun to give the pro much needed information on the refrigerants detected and the remaining battery of the unit. A peak reading indicator features a manual reset to clear. Three sensitivity levels adjust at the push of a button to find leaks even in refrigerant contaminated environments. The units are rugged and easy to use and hold due to their compact size at only 8" long. Both units are IP54 water resistant for durability.

**More information:** www. fieldpiece.com/product-category/ leak-detectors/.

# FabricAir CFD Service



FabricAir, Lawrenceville, Ga., the original manufacturer of fabric HVAC duct, introduced its FabricAir CFD Service, the HVAC industry's first and most sophisticated "true" 3D 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 in-house 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 invaluable parameters affecting a space's ventilation design.

Many fabric duct manufacturers offer free theoretical analysis sheets labeled as CFD. However, those analyses are often spreadsheetbased, two-dimensional X/Y axis graphs with airstream centerlines exiting ductwork without critical details, such as diffusion patterns, room air mixing and movement. Conversely, the FabricAir CFD Service uses true CFD modelling that's customized to each project and 90-percent more accurate than analysis spreadsheets. Its sophistication and comprehensiveness is comparable to CFD services offered by CFD consultants, but up to five times less expensive. FabricAir has always offered analysis sheets and will continue the program for those engineers simply wanting a quick, theoretical representation of where ventilation air will disperse and its velocity.

The FabricAir CFD Service offers three different packages to fit any project's time availability, complexity and budget:

- 3D Essential offers one or two flow models in a representation of data analysis from a partial section of the conditioned space. It's ideal in projects where supply air is parallel to return air when the system comprises up to two flow models;
- 3D Standard offers up to three flow models and a more detailed analysis with three-section views demonstrating occupant comfort aspects throughout the space and an overview of air movement seen in all dimensions;
- 3D Premium is designed for complex projects requiring a higher degree of customization with up to four flow models. Five sectional cuts can report occupant comfort in specific locations and an air movement overview seen in all dimensions regardless of room complexity. The package includes full animation, probes that provide a particular spot's air velocity and temperature, plus external elements such as machine

heat sources, wind and snow loads, movables and window panels.

All three FabricAir CFD
Service packages culminate with
a multi-page report for client
presentations. Each report includes
graphs, diagrams and other images combined with descriptions
on room geometry, ventilation
systems, CFD simulation results/
review, vector overview, temperature distribution and a summary/
recommendation page. Design rectifications due to negative results
can be rerun at no extra charge.

More information: www.fabricair.com.

# Hercules Haymaker



The **Hercules** Haymaker® Tankless Water Heater Descaler kit includes everything needed – solution, pump, hoses, and a bucket – to remove scale and maintain optimal performance of a tankless water heater.

The solution quickly and easily dissolves inorganic deposits that restrict flow to restore circulation and heat transfer efficiency. The Haymaker solution dissolves three times the amount of scale as a gallon of white vinegar, without the foul odor.

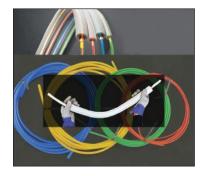
The solution is citric acid-based, non-corrosive, and VOC-free. Removing carbonates, sulfates, phosphates, rust, oxides, and other mineral deposits, Haymaker is compatible with most commonly found plumbing-related materials, including PVC, CPVC, ABS, rubber, steel, and most metals.

Other applications include descaling non-aluminum heat exchangers and water heaters. The Hercules Haymaker® solution extends the life of the appliance when used as part of a regularly scheduled preventative maintenance program. It is safe for septic systems and sewers, and potable water systems.

**More information:** www.oatey.

# • • • • • • • • • Marketair Inc. Easybend

Marketair Inc., an Edison, N.J.-based supplier of HVAC/R components and accessories, recently added a new 26-foot-long extended lineset bending kit and a 3/4-inch-diameter mandrel to its Easybend product line. Easyb-



end is the HVAC/R industry's quickest, easiest and most reliable, mandrel-type, soft copper refrigeration lineset bender for the U.S. and Canadian markets.

Like the original 13-foot kit, the new extended 26-foot Easybend kit includes mandrels for the four lineset sizes commonly used in ductless and VRF/VRV installations: 1/4-inch (4-mm), 3/8-inch (6-mm), 1/2-inch (9-mm) and 5/8-inch (12-mm) (O.D.). The 26-foot mandrels permit the installer easy passage through walls and around obstacles. The mandrels also enable multiple compound bends without kinking 25-foot linesets.

Another Easybend addition is a 3/4-inch-diameter (19-mm) (O.D.) mandrel that's color-coded white and is available only in a 13-foot (4-m) length. It was developed specifically from contractor requests for a bending mandrel that accommodates larger lineset suction lines commonly used in ducted A/C systems. It's sold separately from the original Easybend mandrel kit.

Conventional pipe benders require pipe insulation removal and replacement. They can handle only one line at a time, don't easily permit delicate adjustments and are substantially more time-consuming and labor-intensive than Easybend.

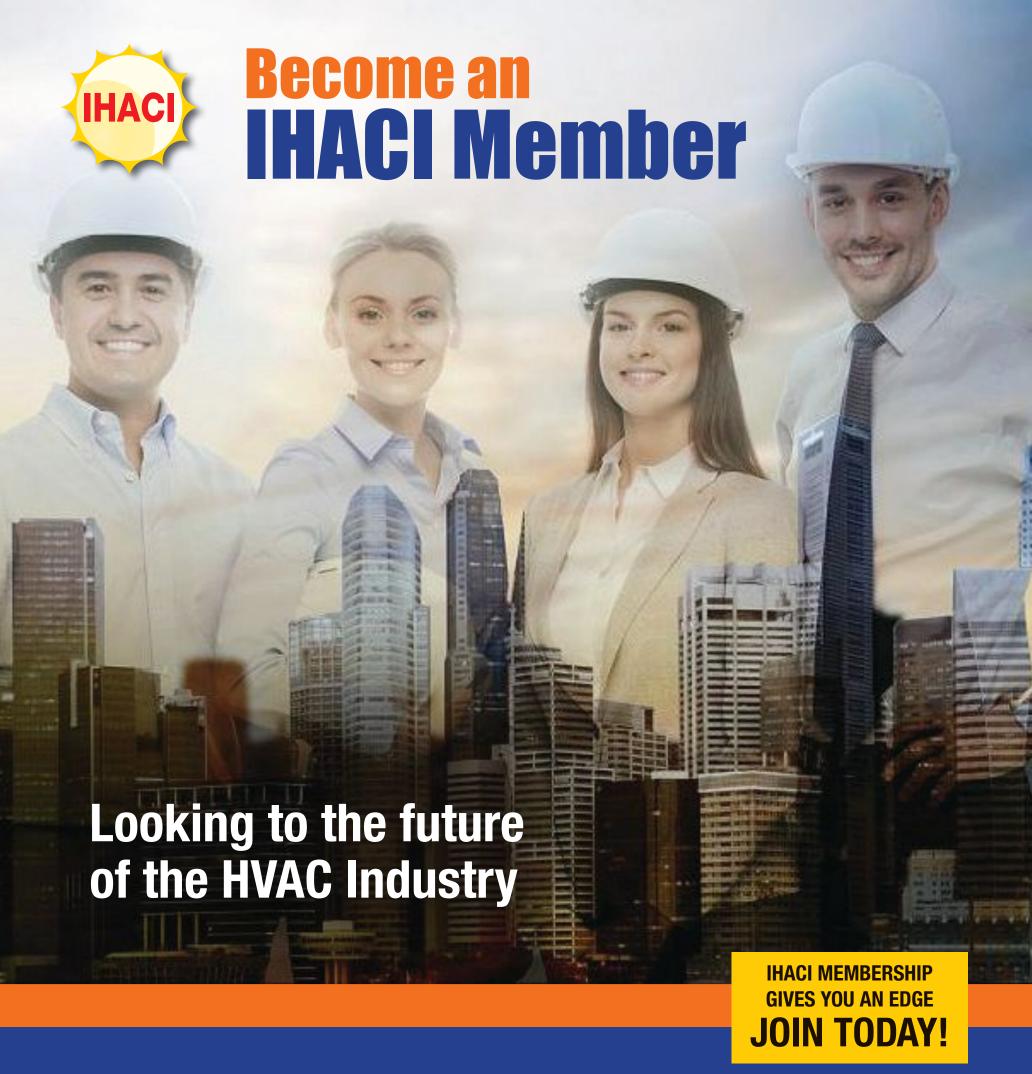
All solid polyethylene Easybend mandrels prevent linesets from collapsing and/or kinking during bending and permits any lineset configuration without insulation removal, replacement and refastening.

Additionally, Easybend allows simultaneous bending of both copper lines, resulting in a more expedient, accurate and attractive installation.

Each mandrel is easily extracted and wiped clean before recoiling and storing in its 18-inch-square, transparent, sturdy plastic bag for multiple reuses on future projects.

Marketair now offers new individual Easybend mandrels in 13-foot and 26-foot lengths that enable lost or damaged mandrel replacement without purchasing a complete Easybend kit.

**More information:** www.mar-ketair.com.



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# **Indoor People**



**RILEY ARCHER** 

Aspen Manufacturing, LLC, one of the largest independent manufacturers of evaporator coils and air handlers for the residential heating, ventilation, and air conditioning marketplace in the United States and Canada, is pleased to announce that **Riley Archer** has joined the Company as its Vice President of Sales and Marketing.

Aspen has experienced strong growth over recent years in both revenue and business complexity driven by robust industry demand fundamentals as well as the Company's rollout of its new aluminum tube coil product line.

To support this growth, Aspen expanded its manufacturing facility in northeast Houston from 132,000 to 204,000 square feet in early 2019 and added administrative staff to prepare for the next steps in its evolution.

Archer will be a key contributor on Aspen's senior leadership team to help the Company accomplish its long-term goals and will report directly to Aspen's Chief Executive Officer. Archer's areas of responsibility will include all commercial activities encompassing sales, marketing, customer service and pricing

Prior to Aspen, Archer served as Vice President of Sales and Marketing at both Signature Systems Group, LLC and CSW Industrials, Inc. where he helped develop and implement processes and systems that supported tremendous market advancement in those organizations. In his 12 years at RectorSeal\*, a subsidiary of CSW Industrials, Inc., he held positions of increasing responsibility, manag-

ing several business units over his tenure including the OEM HVAC business and the ductless HVAC business line.

"Riley brings a long and successful track record in business management and marketing excellence, and we're thrilled to add him to Aspen's management team to further support our customers' growing demand for our products," said Jason Ludeke, Chief Executive Officer of Aspen.

• • • • • • • •

Hoshizaki America Inc. announced the formal appointment of **Chris Karssiens** as president after serving as interim president since March 25 and Sr. Vice President of Sales & Marketing prior to that.

Karssiens takes the reins at Hoshizaki America working strategically with Hoshizaki Japan to build on new opportunities created by this past year's events.

"We have a strong team, which is agile and ready to capitalize on growth for value creation," said Karssiens.

"I would like to thank Chris for fully embracing our company challenge and expectations," said Yasuhiro Kobayashi, Hoshizaki Corporation chief operating officer and president. "The past year has taught us that we all do better when we choose to work together transparently, with strong communication, and trust."



CHRIS KARSSIENS

Mitsubishi Electric Trane HVAC US (METUS), a leading supplier of Ductless and Ducted Mini-split

ROBERT D. SMITH

and Variable Refrigerant Flow (VRF) heat-pump and air-conditioning systems, is pleased to announce the hiring of **Robert D. Smith** as vice president of supply chain management.

A long-time employee of Ingersoll Rand and Trane Technologies, Smith joins METUS with over 27 years of experience in product engineering, plant management, distribution, logistics and supply chain. Smith most recently served as a global director of procurement at Trane Technologies where he used his skills to drive supply chain efficiencies. During his time at Trane Technologies, Smith participated in the organization's premier executive leadership development programs, and his teams won prestigious achievement awards.

As the vice president of supply chain management at METUS, Smith will spearhead the continued development and implementation of best practices across the supply chain organization. He will work alongside business units, factories and vendors to manage forecasting and inventory procurement processes, as well as drive reliability and efficiency improvements within METUS operations. Smith will also work closely with METUS distributors to help maintain appropriate inventory levels in the field.

"Robert has a wealth of knowledge and expertise in supply chain management to contribute to the Mitsubishi Electric Trane HVAC US team," said Steve O'Brien, senior vice president, sales, marketing and supply chain, METUS. "We're pleased to be working with

him and excited to see how he'll continue to improve our supply chain strategy and structure to support the company's goals and objectives."

Smith holds a Bachelor of Science in mechanical engineering from the University of Tennessee and a Master of Business Administration from Gardner-Webb University in Boiling Springs, North Carolina. He will be based out of the Suwanee, Georgia METUS headquarters.

• • • • • • • •

The Air Conditioning Contractors of America (ACCA) announced that it has nominated **Eric Knaak**, executive vice president and general manager of Isaac Heating & Air Conditioning Inc. in Big Flats, New York, and former ACCA chairman to serve as a member on the U.S. Department of Labor's Advisory Committee on Apprenticeship (ACA).

The ACA will focus on three strategic areas: the expansion, modernization, and diversification of the National Apprenticeship model; the expansion of apprenticeships into new industries and sectors including, but not limited to, cybersecurity, clean energy, advanced manufacturing, information technology, and healthcare; and equitable access for all workers to participate and succeed in the National Apprenticeship system.

"Being considered for the Department of Labor's Advisory Committee on Apprenticeship is a humbling experience, and an appointment would be a career milestone that was never anticipated," said Knaak. "Having the opportunity to represent the HVACR industry and ACCA members around the country with a voice at the national level is an honor and a responsibility that I take seriously. Being heard and seen for the viable and critical industry that we are is important to our future, and finding and educating workers is by far our biggest challenge. Having a nationally recognized apprenticeship program with access to training facilities can have a huge impact on our industry and provide access to a more diverse and inclusive



ERIC KNAAK

workforce."

Committee members will be appointed to one- and two-year terms and will advise the Secretary of Labor on ways to expand and modernize the national apprenticeship system to provide equitable career pathways that advance the dignity of work for everyone.

Mr. Knaak has over three decades of service in the HVACR industry, including extensive involvement in workforce development," said Chris Czarnecki, ACCA government relations representative and coalitions manager. "He has established himself as a proven leader and we are fully confident that he will provide both a wealth of knowledge and invaluable perspective as a member of the ACA. His appointment would give contractors a seat at the table as the Biden Administration moves forward with the development of its registered apprenticeship program."

The ACA nominations will be considered and members will be announced in the coming months.

• • • • • • • •



VIKAS ANAND

Danfoss has named **Vikas Anand** as vice president of sales in North America for its recently formed Climate Solutions business segment.

Anand joins the U.S. and Canada sales organization after leading the Danfoss Cooling business in Asia Pacific and India, where he focused on growing the business in areas related to infrastructure, energy efficiency, and climate change.

With more than 23 years of experience in sales and marketing leadership, Vikas has spent the last 15 years of his career with Danfoss and has developed and driven various growth strategies with a strong customer focus. He has worked to accelerate and expand the company's distribution business in mature and emerging markets, and is dedicated to developing diverse, agile, and ambitious teams.

He holds an MBA and a bachelor of engineering degree (mechanical) from the Indian Institute of Technology in Delhi, India. He has also participated in various management programs with the Indian Institute of Management and INSEAD

# Mitsubishi CEO Continued from Page 1

service, and improved efficien-

cies," said Oya.

Corbo began his career with
Mitsubishi Electric US in 1986
with the Elevator & Escalator
Division. He was promoted to
MEUS' executive vice president and chief operating officer

in 2018, where he oversaw six business divisions, 1,600 employees, and 38 locations throughout North America. In his new role, Corbo will build on his leadership of all of the MEUS business units and now oversee the company's Americas Corporate Office. He has been appointed to the board of directors of Mitsubishi Electric Trane HVAC US LLC, and will continue to serve on the MEUS

board of directors, as well as the board of the Mitsubishi Electric America Foundation (MEAF).

"Becoming MEUS' first
US-based president and CEO
is a great honor," said Corbo. "I
look forward to working with
the leadership team and our
talented employees to further
strengthen collaboration and
shared innovation among our
business units."

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For more info visit www.goodmanmfg.com/goodman-google-nest-2



