

INDOOR COMFORT

AUGUST 2023

THE VOICE OF THE INDUSTRY

www.indoorcomfortnews.com

NEWS

THE WEST'S LEADING MONTHLY NEWSMAGAZINE FOR THE AIR CONDITIONING, HEATING, REFRIGERATION, SHEET METAL AND VENTILATING INDUSTRIES



Editorial Focus

What's new? What's improved? Find out about the latest offerings in IAQ, Zoning & Air Distribution Products.

Page 20



Business Matters

Columnist Lawrence Castillo holds a Q&A with IHACI President Dean Gilford as they discuss the future of the HVAC industry.

Page 23



Indoor People

ICN takes a look at all the movers and shakers in the HVAC/R/SM industries.

Page 30

CPUC OKs \$4.3B Funding for Energy Efficiency, Targets Underserved Communities

Milestone investment aims to curb greenhouse gas emissions and expand equity inclusion efforts.

The California Public Utilities Commission (CPUC), in a continued investment in energy efficiency as a foundational element of its energy, environmental, and

social justice policies, has approved utility energy efficiency portfolios of \$4.3 billion for the years 2024-2027, and a forecasted budget of an additional \$4.6 billion for 2028-2031. Notably, approximately 14 percent of the budget will target programs supporting disadvantaged and underserved communities, helping to ensure



equitable access to energy efficiency programs for all Californians served

by CPUC-regulated entities.

The action by the CPUC represents a milestone investment commitment that will continue to propel energy efficiency initiatives throughout California while also serving to reduce greenhouse gas emissions and create additional equity inclusion opportunities. The programs authorized by the

CPUC not only save energy, but also contribute to installing energy efficiency measures in homes and businesses to improve the reliability of the electric grid and natural gas delivery throughout California. Examples of the investment and work include expanding programs

Continued on Page 24

CEC Update

Rulemaking to Update HERS Regulations, Energy Code Compliance

By Ted Rieger
Northern Calif. Correspondent

The California Energy Commission (CEC) issued a final staff report in July as part of a pre-rulemaking process to update the Home Energy Rating System (HERS) Regulations as they apply to the Residential Field Verification and Diagnostic Testing (FV&DT) Regulations. The regulations update and proposals will be addressed within the formal rulemaking process for the Title 24 Building Energy Efficiency Standards (Energy Code) 2025 update,

expected to occur from January-June 2024, with anticipated adoption of the 2025 Energy Code on June 12, 2024.

Background

The CEC adopted provisions in the Energy Code to verify that installations of air ducts and HVAC equipment in residential buildings are consistent with Energy Code requirements. In 1999, the CEC promulgated the

Continued on Page 14

Survey: Contractor Confidence Up, But Market Concerns Persist

PHCC Contractor Confidence Index designed to take pulse of plumbing, heating, ventilation, and cooling contracting market.

HVAC and plumbing contractors feel that industry conditions are better now than they were earlier this year, according to the latest quarterly report from the Plumbing-Heating-Cooling Contractors-National Association (PHCC).

The PHCC business intelligence department recently released its Q2 2023 Contractor Confidence Index (CCI). Sponsored by Bradford White Corp., a PHCC partner, the CCI is based on a quarterly survey of PHCC members and is designed to take the pulse of the plumbing, heating, ventilation, and cooling contracting market.

The second-quarter 2023 CCI summary report revealed a CCI of 56.2. This is up from 52.2 in the first quarter, although respondents cited ongoing frustrations as well as concern about the possibility of a recession.

The number of plumbing contractors reporting concerns about a recession rose sharply, by 25%, as did the number of respondents who said customers

were holding off on projects and replacements. Over half of respondents saw increased operational and materials costs, and just under half were experiencing shipping delays, as well as parts and equipment shortages.

Participating business owners expressed disappointment about sagging sales closing rates. Respondents also noted that general contractors are taking longer to pay for work performed, as well as holding project retainages for a longer period of time. Concern was

Continued on Page 18

Inside

DEPARTMENTS

Industry News 4

CSLB Update 18

Troubleshooting 22

Technical Training 24

SAVE THE DATE!
TUESDAY,
NOVEMBER 7, 2023

IHACI will be celebrating its 75th anniversary at this year's HVAC Trade Show in Pasadena. Don't miss out on the festivities!



IHACI 2023 Training Classes

Keep your skills up-to-date by enrolling now! See Pages 28-29 for more details.

PRRST STD
U.S. POSTAGE
PAID
LITTLE ROCK, AR
PERMIT NO. 1884

INDOOR COMFORT NEWS
454 W. Broadway
Glendale, CA 91204

CHANGE SERVICE REQUESTED



DAY & NIGHT PACKAGE UNITS



SETS YOU APART WITH OUR HIGHEST-EFFICIENCY ELECTRIC HEAT PUMP

QUIETCOMFORT® 15 PACKAGED HP: PHR5

BENEFITS & FEATURES

- Up to 15.5 SEER
- Quiet performance (as low as 68 decibels)
- Two-stage heating and cooling
- 5-Year No-Hassle Replacement™ Limited Warranty*
- 10-Year Parts Limited Warranty*
- Optional—Exceptional dehumidification for enhanced humidity control



* See warranty certificate for complete details and exclusions.



SPECIFICATIONS

- 2-5 Tons
- Efficient multi-speed ECM blower motor
- Advanced electronic control quietly switches between heating, cooling and defrost modes
- Sound-reducing features: Vibration-reducing top panel, soft mounted compressor and blower motor, and Quiet Shift defrost
- Compatible thermostat: Two-stage heat/cool with humidity sensing

A Proud Member of the Carrier Family
©2023 Carrier. All Rights Reserved.



COMFORTABLY CALIFORNIA HEAT PUMP FIELD SWITCHING INCENTIVE

- Ask your TM or Ferguson Associate how to qualify
- Learn more: switchison.org/contractors/incentive-resources
- Scan the QR code



Text us now at one of our locations for the answers you need. Monday–Friday, 7:00 a.m.–4:00 p.m.**

**Call your local store to verify hours as they may vary. West Phoenix number applies to all AZ locations.

ARIZONA

- GILBERT**
(480) 824-4250
- W PHOENIX****
(623) 474-7200
- GLENDALE**
(602) 246-6982
- PRESCOTT**
(928) 759-0222
- MESA**
(480) 832-3438
- TUCSON**
(520) 670-1100
- NE PHOENIX**
(480) 308-8200
- YUMA**
(928) 329-6420
- S PHOENIX**
(602) 438-8945

CALIFORNIA

- ANAHEIM**
(714) 520-0026
- EL CAJON**
(619) 258-9382
- BAKERSFIELD**
(661) 335-7200
- FRESNO**
(559) 538-6124
- CATHEDRAL CITY**
(760) 770-6762
- GILROY**
(408) 846-6469
- CHATSWORTH**
(818) 341-5200
- HAYWARD**
(510) 782-9820
- CHICO**
(530) 893-2114
- INDIO**
(760) 775-7400
- DUBLIN**
(925) 828-4875
- LANCASTER**
(661) 945-6902

MANTECA

- (209) 239-6407
- NEWBURY PARK**
(805) 376-3576
- ONTARIO**
(909) 969-2272
- PASO ROBLES**
(805) 434-3114
- PITTSBURG**
(925) 778-1237
- POMONA**
(909) 517-3810

RIVERSIDE

- (951) 784-0506
- ROHNERT PARK**
(707) 293-2652
- N SACRAMENTO**
(916) 924-8661
- S SACRAMENTO**
(916) 210-7993
- SAN GABRIEL**
(626) 458-2432
- SAN JOSE**
(408) 271-1685

SAN RAFAEL

- (415) 459-3798
- SANTA CLARITA**
(661) 287-3142
- VAN NUYS**
(818) 779-0894
- VICTORVILLE**
(760) 241-6284

NEVADA

- HENDERSON**
COMING SOON
- LAS VEGAS**
(702) 260-9388



UNSTOPPABLE TRANE® BUNDLE SOLUTIONS



GET WHAT YOU NEED WITH THE RIGHT BUNDLE THIS SEASON HEAT PUMP, A/C, ULN AND HYBRID BUNDLES

14 SEER1 HP AND AIR HANDLER

STARTING AT **\$3,082***

STANDARD:

- TEM4 Multi-Position Air Handler 230V

CHANGE TO 115V INDOOR WITH OUR POV AND COIL COMBO

Ask a Sales Associate for more details.



QUALIFIES FOR
\$1,000
TECH CONSUMER
REBATE

14 SEER2 A/C AND 80% GAS FURNACE

STARTING AT **\$3,125***

STANDARD:

- Multi-Position 4TXC or 4MCA Coil

ULN:

- Multi-Position 4TXC or 4MCA Coil



14 SEER1 HYBRID H/P 80% FURNACE

STARTING AT **\$3,082***

HYBRID STANDARD:

- Multi-Position Coil

HYBRID ULN:

- Multi-Position Coil



QUALIFIES FOR
\$1,000
TECH CONSUMER
REBATE

FREE!*



Add a FREE Trane 4H | 2C Stage Programmable Thermostat
One per bundle purchase

TTCONT724AS42DA

UPGRADE AND SAVE



Add an Aerus Air Scrubber A9960052

*Offer valid at participating California Ferguson HVAC locations. Must take delivery by August 31, 2023. No substitutions allowed. One free thermostat per bundle purchase. Pricing subject to change without notice. While supplies last. Taxes not included.



COMFORTABLY CALIFORNIA HEAT PUMP FIELD SWITCHING INCENTIVE

- Ask your TM or Ferguson Associate how to qualify
- Learn more: switchison.org/contractors/incentive-resources
- Scan the QR code



Access local inventory from the field. Get answers you need.

Text us Monday–Friday, 7:00 a.m.–4:00 p.m. or call your local store to verify hours as they may vary.

CALIFORNIA

ANAHEIM
(714) 520-6440

CATHEDRAL CITY
(760) 770-6762

CULVER CITY
(310) 391-2291

FRESNO
(559) 538-6124

INDIO
(760) 775-7400

ONTARIO
(909) 969-2272

POMONA
(909) 517-3810

N SACRAMENTO
(916) 924-8661

NEVADA

HENDERSON
COMING SOON

AZUSA
(626) 969-1874

CHATSWORTH
(818) 341-5200

DUBLIN
(925) 828-4875

GILROY
(408) 846-6469

LANCASTER
(661) 945-6902

PASO ROBLES
(805) 434-3114

RIVERSIDE
(951) 784-0506

S SACRAMENTO
(916) 210-7993

LAS VEGAS
(702) 260-9388

BAKERSFIELD
(661) 335-7200

CHICO
(530) 893-2114

EL CAJON
(619) 258-9382

HAYWARD
(510) 782-9820

NEWBURY PARK
(805) 376-3576

PITTSBURG
(925) 778-1237

ROHNERT PARK
(707) 293-2652

VICTORVILLE
(760) 241-6284



Industry News



CALIFORNIA



Fieldpiece Scholars Named at National Conference

Orange, Calif. – Fieldpiece Instruments, a renowned leader in HVACR test tools and instruments, awarded \$10,000 in scholarships to six exceptional HVACR students during the National Leadership & Skills Conference (NLSC) in Atlanta last month. Administered through SkillsUSA, Fieldpiece created the #MasteroftheTrade scholarship program to give back to the industry it has served for over three decades. The funds will assist recipients in covering college tuition fees or postsecondary HVACR technology program costs to advance their career goals. This marks the third major gift from Fieldpiece’s #MasteroftheTrade scholarship program, totaling \$52,500 over the past two years.

Tony Gonzalez, technical training manager emphasized Fieldpiece’s dedication to supporting HVACR professionals, both new and experienced, on their paths to success. He

stated, “At Fieldpiece, we are committed to empowering HVACR professionals with the knowledge, resources and tools they need to thrive. The #MasteroftheTrade Scholarship program – along with our existing offerings like student discounts and free Fieldpiece University online training – aims to foster the skills of master technicians and aspiring students alike, propelling their careers forward. Congratulations to our scholarship recipients this year! It is a true honor for us to support you, and we eagerly anticipate your future contributions to the field.”

Scholarships included gold, silver and bronze medal categories for students in their junior or senior year of high school, or college/postsecondary school students, that topped the leaderboard rankings of the NLSC. The six winners include:

High School

- Gold Medalist | Cole Kelley from Shawsheen Valley Technical School in Billerica, MA
- Silver Medalist | Tobias Payne from Southern Indiana Career and Technical Center in Evansville, IN
- Bronze Medalist | Clayton Petlock from Norther Tier Career Center in Towanda, PA

College – Post Secondary

- Gold Medalist | Wyatt Rumbold from Illinois Central College in East Peoria, IL

- Silver Medalist | Raulie Rojas from Western Dakota Tech Institute in Rapid City, SD

- Bronze Medalist | Nathaniel Brown from Metro Technology Center-South Bryant in Oklahoma City, OK

The HVACR industry offers a rewarding and hands-on career path characterized by high demand for skilled professionals. The field delivers professional freedom and an opportunity to make a positive impact on the stability of businesses and communities. However, it is concerning that in 2022, over 110,000 HVACR technician jobs remained unfilled, resulting in long-term consequences for energy conservation and jeopardizing the comfort and safety of millions of individuals. Establishing the #MasteroftheTrade Scholarship program enabled Fieldpiece to become part of the solution to addressing this gap.



Brody Pennell Acquires San Diego Contractor

Los Angeles, Calif. – Brody Pennell Heating & Air Conditioning, the leading residential HVAC company in Los Angeles since 1945, announced it has acquired Bob Jenson Air Conditioning & Heating, the legendary San Diego Heating & Air Conditioning contractor that was established in 1977. The

acquisition marks Brody Pennell’s continued expansion and the further strengthening of its position as the premier provider of residential HVAC service in the Southland.

Lawrence Castillo, President of Brody Pennell, expressed gratitude about the opportunity to add Bob Jenson to the Brody Pennell family. “As we made the decision to increase our reach in Southern California, we wanted to find a brand that had the same hallmarks as our platform company, Brody Pennell. Brody Pennell has served Los Angeles for 78 years now, and has been continually recognized for its outstanding customer service, and dedicated customer base. Bob Jenson Heating & Air provides an almost carbon copy reputation, and position in the San Diego marketplace. A Five Star customer service reputation and a philosophy of building long-term relationships with clients are the building blocks that attracted us to Bob Jenson.”

Kevin and Rhonda Burns, owners of Bob Jenson Heating & Air, expressed how pleased they were to meet the Brody Pennell Group. Rhonda explained “Kevin and I have spent our entire adult lives at Bob Jenson. We have witnessed the growth of the company from its infancy, and the impact that Bob had on the residential San Diego HVAC market. When we decided to retire, we knew that the next owners of this business needed to be caring, compassionate, and the kind

of people who would carry the legacy forth that we have built. The Brody Pennell Group was the perfect choice, and we knew from the moment we met them, and all through this process, that our customers and employees are in great hands going forward.”

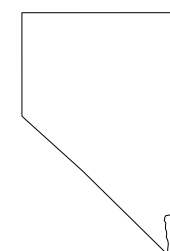
Castillo added that “Brody Pennell continues to identify opportunities to align with companies who share the same values, and we look forward to watching the accelerated growth of these two legacy brands as they strengthen our position in the Southern California marketplace.

About the Brody Pennell Group

Brody Pennell Heating & Air Conditioning, is the leading provider of heating & air conditioning service, repair, and replacement in Los Angeles. Brody Pennell is now in its 78th year, and has been voted the BEST Heating & Air Conditioning company in Los Angeles in 2021, 2022 and 2023 by the readers of the Los Angeles Times. Dedication to delivering legendary customer service has propelled Brody Pennell to become the most well reviewed and awarded company in Los Angeles.

For more information, please visit www.brodyennell.com.

NEVADA



HPC Fire Inspired Expands in West

Las Vegas, Nev. – HPC Fire Inspired, a leading manufacturer of premium gas fire pit and outdoor living products, has acquired Galaxy Outdoor LLC (Las Vegas), a renowned manufacturer of custom and standard outdoor kitchen islands. This strategic move marks a significant expansion of HPC Fire Inspired’s national presence and the establishment of a western distribution

Continued on Page 6

Find the **GOLD KEY** and **UNLOCK** a **PRIZE**

Somewhere hidden inside the pages of Indoor Comfort News lies a golden key ! If you’ve discovered it, please email us the page number and location (e.g., page 4, inside USACD advertisement). The first correct email will receive a prize, courtesy of Indoor Comfort News!

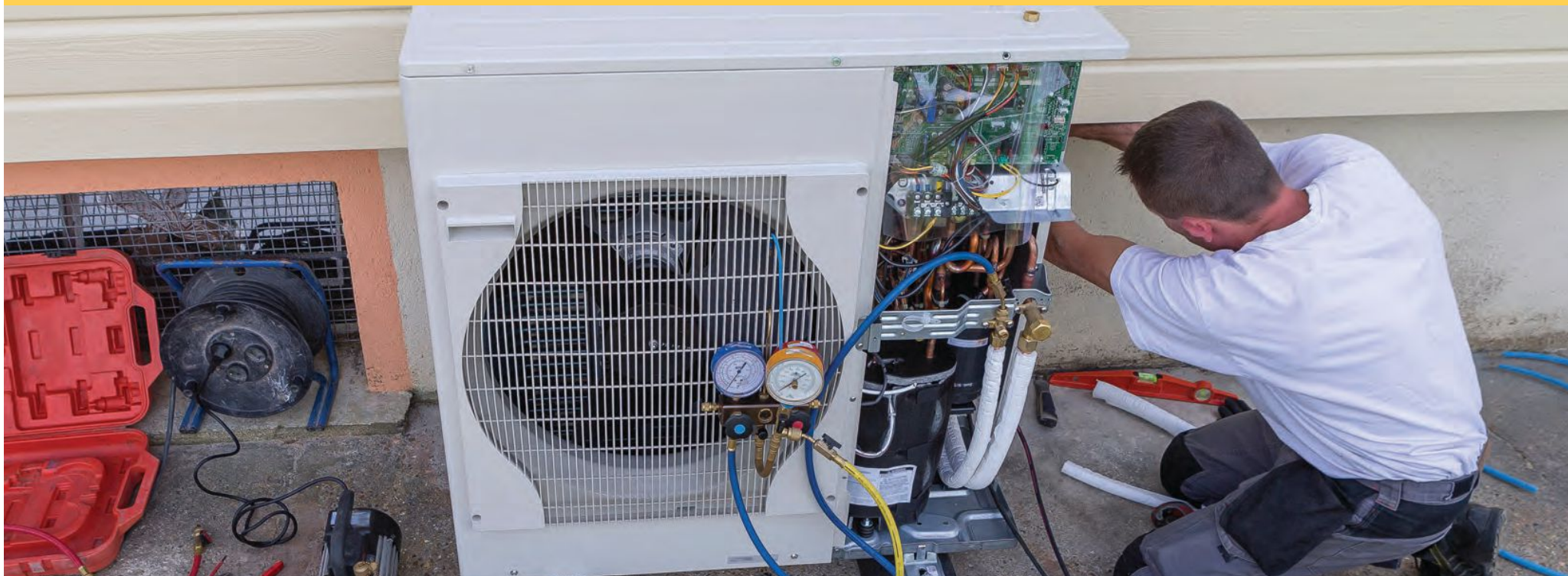
Email your response to:
advertising@indoorcomfortnews.com

Note: Winners cannot win more than once in 12 months.



LEARN THE LATEST HVAC/R PERFORMANCE TECHNOLOGIES

We offer free HVAC/R online and in-person classes with certifications to help you improve your customer's system performance.



NCI High-Performance HVAC Design and Redesign (Three-Part Series)*

Aug. 22, 23 & 24 | 8 a.m. to 5 p.m. PT | Anaheim, CA

Variable Refrigerant Flow Commercial Heat Pump Systems - Design and Application

Aug. 30 | 9 a.m. to 12 p.m. PT | Webinar

NCI Hydronic Testing, Adjusting, & Balancing Certification Program (Two-Part Series)*

Sept. 6 & 7 | 8 a.m. to 5 p.m. PT | Anaheim, CA

NCI Airflow Testing & Diagnostics Technical Training*

Sept. 12 | 8 a.m. to 5 p.m. PT | Anaheim, CA

NCI Airflow Testing & Diagnostics Implementation Workshop (Two-Part Series)*

Sept. 13 & 14 | 8 a.m. to 5 p.m. PT | Anaheim, CA

IHACI System Diagnostics Module (Four-Part Series)

Sept. 20, 21, 27 & 28 | 6 p.m. to 9 p.m. PT | Tulare, CA

IHACI System Diagnostics Module (Four-Part Series)

Sept. 20, 21, 27 & 28 | 6 p.m. to 9 p.m. PT | Irwindale, CA

NCI Refrigerant-Side Performance Certification Program (Two-Part Series)*

Sept. 27 & 28 | 8 a.m. to 5 p.m. PT | Anaheim, CA

ItsAboutQ.net On-Demand HVAC/R Programs & Courses

Available 24/7, 365 days a year



Register to take our classes and see all our HVAC/R offerings at on.sce.com/hvac or scan the QR code.

*Fee-based training

Programs are funded by California utility customers and administered by Southern California Edison under the auspices of the California Public Utilities Commission.

© 2023 Southern California Edison. All rights reserved.

Industry News

Continued from Page 4

center, enabling the company to better serve its customers across the country.

With this acquisition, HPC Fire Inspired will now offer Galaxy Outdoor's range of outdoor kitchen islands to its vast network of dealers. Galaxy Outdoor products perfectly complements HPC Fire Inspired's portfolio of high-quality fire features. This collaboration creates new opportunities for customers seeking integrated outdoor living solutions that seamlessly blend functionality and aesthetic appeal.

Moreover, HPC Fire Inspired will leverage the acquisition to introduce custom fire pit manufacturing on the West Coast, enhancing its ability to meet the unique demands of customers in the region.



Distributor HTS Buys Oslin Nation

Houston, Texas – Independent commercial HVAC distributor HTS has agreed with the owners of Oslin Nation Co. to acquire the 80-year-old firm, which represents hydronics manufacturers.

The move will enhance the HVAC and building automation offerings at HTS, the company said in a press release. Financial details of the transaction were not

disclosed.

In the province of Ontario, Canada, HTS enjoys a strong relationship with Xylem, one of Oslin Nation's cornerstone suppliers.

"HTS is already entrenched in the hydronic marketplace in the province of Ontario, so the addition of the Oslin Nation family naturally fits into our Texas business and overall strategy and vision," said Mike Donovan, president of Houston-based HTS Texas. "This is an opportunity to significantly grow our business with leading suppliers of hydronic products and systems to the commercial and industrial building space."

Oslin Nation's 80 employees will join 255 HTS Texas employees, though no staffing, branding or operational changes are planned.

"We weren't looking to be acquired, but we are extremely

excited to join the HTS team," said Mike Barnett, a co-owner of Oslin Nation, who along with co-owner Steven Lipe will continue to run Oslin Nation and will join the HTS Texas board as directors. "The HTS local leadership team has the same strong shared values and principles we prioritize to build a great work environment, great culture, and strong and loyal teams."

"We've contemplated this acquisition for over a year, and we believe this acquisition will catapult our presence and unique offerings within the Texas marketplace and allow Oslin Nation's employees and our main supplier partners to continue to flourish in the Texas marketplace," said HTS Texas principal Stephen Poles, who heads the HTS Dallas-Fort Worth operation.

HTS represents more than 100 HVAC suppliers and has approxi-

mately 1,500 employees in 24 cities across the U.S. and Canada.

.....

NADCA Tech Conference to Offer Training

Grapevine, Texas – The National Air Duct Cleaners Association (NADCA) – also known as the HVAC Inspection, Cleaning, and Restoration Association – will hold its 2023 Fall Technical Conference September 8 and 9 at the Embassy Suites in Grapevine, Texas, just outside Dallas.

NADCA's annual Fall Technical Conference provides education for duct-cleaning technicians throughout every stage of their careers, the association said in a press release. It features hands-on training during which attendees can use real-world scenarios to develop practical skills. Technicians will work with tools, equipment, and technologies specific to the HVAC cleaning, inspection, and restoration industry.

"What's special about Fall Tech is that attendees learn by doing. This conference encourages technicians to roll up their sleeves and get actively involved in the learning process by working directly with the tools, equipment, and technologies that are used daily in our industry," said Jodi Araujo, the NADCA CEO. "With hands-on training, technicians dive right into the action, and develop expertise and technical skills that can be applied directly to day-to-day job tasks."

"Attendees also will experience our always-popular virtual-reality training," Araujo continued. "Technicians can put on a headset and virtually enter a mechanical room in a commercial facility or an environment typical of a residential setting, effectively gaining another great experience to fine-tune their skills and learn new tips and tricks."

In addition, technicians seeking Air Systems Cleaning Specialist (ASCS) or Certified Ventilation Inspector (CVI) certifications will have the opportunity to participate in a pre-conference training course September 7 and take the exam for both.

Educational sessions, led by industry experts, will be available on a variety of topics,



Indoor Air Quality INNOVATION!

FRESH-AIRE

The Indoor Air Quality Expert



Reduces Airborne Odors, Toxic Chemical Vapors, Germs And Mold

Private label options are available

available at

R.E. MICHEL COMPANY

WHOLESALE DISTRIBUTORS • AIR CONDITIONING • HEATING • REFRIGERATION
PROPANE • EQUIPMENT • PARTS • SUPPLIES

— Since 1935 —

We're Open Every Saturday Morning!

Connect with us on



GILBERT, AZ
480-571-3710

MESA, AZ
480-968-0168

PEORIA, AZ
602-269-0300

PHOENIX, AZ
602-841-7385

SCOTTSDALE, AZ
480-725-9928

TOLLESON, AZ
(SW Phoenix)
602-973-8063

TUCSON, AZ
520-795-1484

YUMA, AZ
928-248-2576

ANAHEIM, CA
714-635-5956

EL CAJON, CA
619-449-9550

ESCONDIDO, CA
760-291-4745

FRESNO, CA
559-459-0100

IRVINDALE, CA
626-962-0286

LONG BEACH, CA
562-200-0089

ONTARIO, CA
909-987-4207

PASO ROBLES, CA
805-434-1460

POMONA, CA
909-392-5626

RIVERSIDE, CA
951-271-8290

SAN JOSE, CA
408-477-1799

SANTA MARIA, CA
805-621-7070

TEMECULA, CA
951-308-2661

THOUSAND PALMS, CA
760-343-0754

UNION CITY, CA
510-483-8031

VAN NUYS, CA
818-781-3123

ALBUQUERQUE, NM
505-884-2660

LAS VEGAS, NV
702-733-7230

Continued on Page 8



SOCALGAS RESIDENTIAL REBATES

Offer customers rebates on high efficiency equipment and installations.

Rebates include:

- Up to **\$4500** rebate on ENERGY STAR® certified solar thermal water heater with gas back-up.
- Up to **\$1000** rebate on ENERGY STAR certified natural gas furnaces.
- Up to **\$1000** on qualifying ENERGY STAR certified natural gas tankless water heaters.
- Up to **\$75** rebate on ENERGY STAR certified natural gas storage water heaters.

Learn more at: socalgas.com/rebates

For additional product information, visit marketplace.socalgas.com



This program is funded by California utility customers and administered by Southern California Gas Company (SoCalGas) 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, 2023 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.

©2023 Southern California Gas Company. Trademarks are property of their respective owners. All rights reserved. N22H014A



Industry News

Continued from Page 6

including HVAC system inspections and assessments, air handler restoration and maintenance, client acquisition and customer development, and safety in HVAC work.

“NADCA’s Fall Technical Conference is known for dynamic and interactive training sessions,” Araujo said. “It’s an incredible opportunity to actively and collaboratively engage with the subject matter, and learn to put theory into practice while gaining valuable experience along the way.”

Exhibits are an integral part of a complete educational experience, and the newest and most innovative products will be on display at this year’s conference, the association said. Exhibits will feature an assortment of products, equipment, and services provided by

suppliers in the HVAC inspection, cleaning, and restoration industry.

To register or read a detailed conference program agenda, visit nadca.com/fall-tech/2023-fall-technical-conference.

StrataTech Opens Welding School in Dallas-Fort Worth

Dallas, Texas – StrataTech Education Group (StrataTech) announced the opening of the newest Tulsa Welding School (TWS) campus in Irving, Texas. Dallas Metro is the fourth Tulsa Welding School campus and the fifth trade school for StrataTech (which also includes The Refrigeration School, Inc. in Phoenix). The Dallas Metro campus will launch their Profes-

sional Welder and Refrigeration Technologies programs beginning in August in addition to an all-new Electrical Lineworker program.

Tulsa Welding School is a leader in skilled trades education and has provided students with hands-on, instructor-guided training for more than 70 years. This is the second TWS location in Texas, joining Tulsa Welding School & Technology Center in Houston. Together, the two schools will work with students, workforce and employers across the state of Texas to address a national skilled labor shortage and help meet the growing demand in the state.

The Professional Welder program at TWS Dallas Metro will train students in the skills needed for entry-level employment in the welding industry. Students will receive hands-on training in struc-

tural welding, flux core welding and pipe welding from instructors who have years of professional experience in the industry. The Refrigeration Technologies program trains students in the fundamentals of heating, ventilation, air conditioning and refrigeration technologies (HVAC/R). This hands-on training program prepares HVAC/R students for opportunities as entry-level positions in refrigeration service and maintenance. Both the Professional Welder and Refrigeration Technologies programs can be completed in as few as seven months.

TWS Dallas Metro is the first TWS campus to include StrataTech’s new 15-week Electrical Lineworker program. The Electrical Lineworker program will train students for entry level employment in the field of utility power distribution construction, maintenance, troubleshooting and repair. In addition to pole construction

and climbing courses, students can receive optional certifications in bucket rescue, pole-top rescue and first aid, and earn their OSHA 10 card.

This new campus will not only help address the ongoing demand for skilled tradespeople in the state, but also provides local employers the opportunity to reskill and upskill their workforce through StrataTech’s StrataSkills program. StrataTech launched StrataSkills in 2022 to serve as a nationwide workforce development and retention solution for companies that employ electricians, welders, and HVAC/R technicians. The program was designed to help solve challenges that employers within the industry face, including upskilling, retaining current employees, and training new hires. TWS Dallas Metro will offer short-term, customized training programs to Dallas area manufacturers, fabricators, and construction worker employers to better upskill the existing regional workforce.

For more information about programs and enrollment, visit www.tws.edu/dallas.

DeltaCapital

Up To **\$500,000** Same Day Funding

(866) 300-7795

EASY APPROVAL | FLEXIBLE TERMS
deltacapitalgroup.com/apply

NATIONAL



Johnson Controls Wins Microsoft Global Award

Milwaukee, Wisc. – Johnson Controls (NYSE: JCI), a global leader for smart, healthy, and sustainable buildings, announced it has won the 2023 Microsoft Global Independent Software Vendor (ISV) Partner of the Year Award.

“Our OpenBlue connected solutions run on Microsoft Azure and use the power of data to put smart, healthy, sustainable buildings within reach for businesses around the world,” said Vijay Sankaran, chief technology officer at Johnson Controls. “From hospitals, universities, and schools to stadiums, airports, ships, hotels, factories, retailers, banks and offices – our combined digital capabilities are empowering customers in every industry to create healthy safe

Continued on Page 10

The YORK® HMM7 Horizontal Discharge Heat Pump:

2-5 Ton • Standard 24 Volt Controls • Works With Conventional Air Handling Units and Evaporator Coils • Price Competitive With Standard Heat Pumps



Eligible for new TECH Clean CA rebate for \$1,000 unit*

- Up to 18 SEER/10.5 HSPF
- 40% more compact than standard heat pump units and can be installed in tighter spaces – ideal for high-density areas
- 36% quieter operating sound; as low as 54 dBA
- Capable of dual-fuel operation when paired with an existing or new furnace, using a Venstar thermostat
- Can be installed in conjunction with existing furnace for lower installation cost and potentially avoid electrical service upgrade**
- Modulating technology maintains exact temperatures by operating from 35-100% capacity
- No unique installation procedures required
- Long line set length (up to 246 ft)
- Designed to work with standard ECM indoor air handlers
- Includes a standard 10-year Compressor Limited Warranty and 10-year Parts Limited Warranty; extended warranties available for a full system replacement (product registration required)

*Contractor enrollment required. Rebate available for residential fuel replacement and certain dual fuel installations. Contact tech.inof@energy-solution.com for more info, or visit us-ac.com/techclean/
**Verify AHRI combination rating with existing furnace

The YORK® HMM7 Heat Pump is designed to provide all the comfort and technology of a high efficiency unit at the cost of a base-tier vertical unit for residential customers. It's an ideal solution for homes that require a compact design and comes in several models and tonnages with flexible installation options and innovative features.

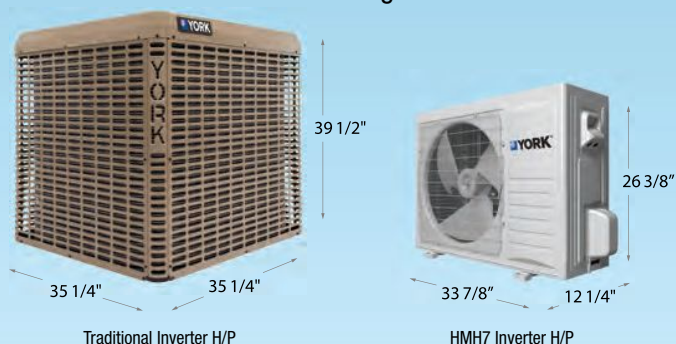


NEW, low-cost cooling-only unit now available!

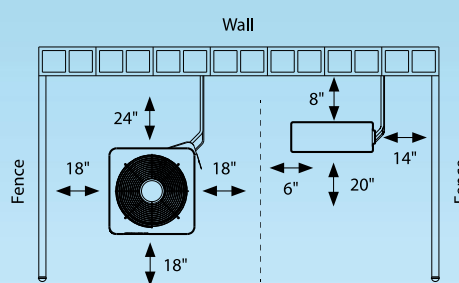
Model	Tons	SEER	HSPF	Height (Inches)	Width (Inches)	Depth (Inches)	Operating Weight (Lbs)	Sound Range (dBA) Low-High*
HMM72B241S	2	17.5	9.0	26 3/8	33 7/8	12 1/4	112	54-65
HMM72B361S	3	18.0	10.5	33	37 3/8	13 3/8	155	56-68
HMM72B481S	4	18.0	9.5	54 5/8	37 3/8	13 3/8	227	62-69
HMM72B601S	5	17.0	10.0	54 5/8	37 3/8	13 3/8	251	62-73

*High sound rated in accordance with AHRI Standard 270.

40% smaller footprint compared to traditional vertical discharge units



Traditional, Vertical Unit Minimum Clearances vs. HMM7 Minimum Clearances



HMM7 Horizontal Discharge Heat Pumps



YORK® SAMSUNG
HVAC. Built brave.

USAirconditioning
DISTRIBUTORS

GUARDIAN
Always on Duty.

QuietCool
ADVANCED WHOLE HOUSE FANS

www.us-ac.com • Facebook Instagram Twitter

800/937-7222

ARIZONA Avondale 602/572-2953 Deer Valley 623/580-4101 Fort Mohave 928/768-2197 Mesa 480/813-4628	Peoria 623/334-8302 Phoenix 602/253-2771 Tucson 520/903-3117	CALIFORNIA Anaheim 714/776-3170 Bakersfield 661/322-7222 Burbank 925/349-3712 El Cajon 818/840-0089 Cathedral City 760/770-4520	Chatsworth 818/678-1750 City of Industry 626/854-6868 Concord 925/349-3712 El Cajon 818/840-0089 Cathedral City 760/770-4520	El Centro 760/370-5530 Escondido 760/291-1281 Fairfield 707/424-6050 Fresno 559/266-8169	Hesperia 760/948-8045 Lake Forest 949/837-8104 Lancaster 661/726-5106 Los Angeles 323/897-6969	Modesto 209/577-2335 Newbury Park 805/376-1723 North Highlands 916/482-3572 Ontario 909/987-5016	Oxnard 805/988-3650 Palm Desert 760/200-5225 Paso Robles 805/238-9353 Redding 530/722-0144	Riverside 951/786-3500 S. San Francisco 650/871-8100 San Bernardino 909/885-3206 San Diego 858/279-9750	San Jose 408/278-1555 San Leandro 510/618-2300 Santa Barbara 805/962-2999 Santa Fe Springs 562/801-5432	Santa Rosa 707/566-9810 Signal Hill 562/981-2010 Stockton 209/466-4153 Temecula 951/296-6557	Valencia 661/666-9544 Van Nuys 818/464-3387 West Los Angeles 310/928-6660	IDAHO Idaho Falls 208/542-5270 Meridian 208/672-1244 or 800/727-9936	NEVADA Sparks 775/329-3455 UTAH Salt Lake City 801/485-8071 or 800/333-8436
----------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------

Industry News

Continued from Page 8

spaces for people and the planet.”

Johnson Controls was honored among a global field of top Microsoft partners for demonstrating excellence in innovation and implementing customer solutions utilizing Microsoft technology. Johnson Controls OpenBlue is a comprehensive suite of connected solutions using the cloud, edge, AI, and machine learning to break down data siloes and connect core building equipment and electrified systems. Customers can use OpenBlue to manage entire buildings, or a portfolio of buildings, to achieve a new dimension of indoor health and well-being, along with cost, energy, emissions, water, and waste savings.

Nothing demonstrates the power of Azure plus OpenBlue to accelerate decarbonization more than the first-hand experience of

customers and partners. In July 2020, when Derwent London pledged to achieve net zero carbon emissions by 2030, it became the first UK-based real estate investment trust (REIT) to provide a detailed pathway to achieve its target. Derwent London’s program goes well beyond traditional net zero journeys. Derwent turned to Johnson Controls to help reach its ambitious decarbonization targets and simultaneously create healthier indoor spaces for its tenants.

“As we work towards 2030, our highly collaborative partnership with Johnson Controls means we’re constantly going to find new ways to innovate and fine-tune our portfolio,” said Michael Simons, digital and innovation manager at Derwent London. “They are truly experts in driving smart, healthy, and sustainable buildings, and offered value at every opportunity. Johnson Controls has decades of

experience with building products, services, and solutions, which is now complemented by their digital platform.”

Johnson Controls also has launched a growing international network of OpenBlue Innovation Centers that serve as regional knowledge hubs, allowing public and private leaders to see for themselves how to use digitalization to accelerate climate action.

“Nobody can win the climate race or protect people from the health impact of global challenges alone, but together we can,” said Rodney Clark, chief commercial officer at Johnson Controls. “Climate change is a defining theme of this century. Almost 40% of global emissions come from buildings, and the world has only seven years to reduce total global emissions by at least 43% to keep global warming to 1.5° Celsius. Johnson Controls and Microsoft are united in our mission to use

digitalization to accelerate the net zero transformation of buildings globally.”

Johnson Controls is using OpenBlue to accelerate its own net zero journey. Since 2017, the company has cut its own absolute emissions by more than 455,000 metric tons and reduced absolute customer emissions by over 18 million metric tons – roughly equal to the carbon sequestered by 300 million trees grown for 10 years.

For more information, visit www.johnsoncontrols.com.

•••••

Four Schools Granted HVAC Excellence Accreditation

Mount Prospect, Ill. – The HVACR education programs at four schools, three in Louisiana and one in Florida, were recently granted accreditation by the industry standards organization HVAC Excellence.

The Louisiana schools with new HVAC Excellence accreditation are Delgado Community College in Metairie, Delgado Community College in New Orleans, and ITI Technical College in Baton Rouge. In Florida, the HVACR program at Lively Technical College in Tallahassee was accredited.

Accreditation brings increased credibility with prospective students and employers, improves recruitment efforts, eases the transferring of credits, and brings opportunities for program growth. Graduates with HVAC Excellence credentials may also receive advanced-placement opportunities from organizations such as the Mechanical Service Contractors of America (MSCA) and the United Association of Journeymen and Apprentices (UA).

Program accreditation comes after a rigorous evaluation process that ensures the program meets established standards of excellence. In the HVACR industry, accreditation ensures that training programs have the necessary resources and support to provide high-quality education and prepare students for entry-level positions. The accreditation process examines various aspects of the program, including its mission, finances, student services, instructional design, facilities, equipment, and instructor qualifications.

HVAC Excellence program accreditation is specifically designed to identify programs that have the resources to prepare students for success in the HVACR industry.

To achieve programmatic accreditation from HVAC Excellence, a school must complete a comprehensive self-study and demonstrate compliance with all required standards. An accreditation review board then sends a team of two professionals, one with experience as an HVACR instructor and the other with experience as a school administrator, to conduct an onsite review of the program. The team validates the accuracy of the self-study and ensures compliance with all established standards.

After a thorough review of all documentation, the HVAC Excellence review board may grant accreditation to the program.

Programs accredited by HVAC Excellence are listed in a directory at www.escogroup.org/accreditation/accreditedprograms.aspx.

•••••

Uponor Named Top Workplace in Minnesota

Apple Valley, Minn. – Once again, the employees of Uponor North America have placed the company on the Star Tribune Minnesota Top Workplaces list as well as the Top Workplaces USA list. The ranking is based on survey feedback received by Energage, a research company with 17 years of experience assessing more than 27 million employees at 70,000 organizations. Uponor was also awarded three Culture Excellence awards focusing on Compensation and Benefits, Innovation, and Work-Life Flexibility.

This is the ninth year Uponor has received a ranking in the top 200 or better. It is also the second year in a row the company has achieved the Top Workplaces USA and Culture Excellence recognitions.

“Being named a top workplace by our employees in the state of Minnesota and also the U.S., and having them recognize our unique People First culture that we all work so hard to maintain, is a testament to the strength of our corporate values that drives how we do business every day,” says Uponor North America President Andres Caballero. “Gaining and retaining top talent in the industry and throughout North America is vital to our success. These recognitions highlight the quality work environment

Continued on Page 12



CHP-5

A NEW WAY TO EARN NATE CERTIFICATION

Technicians can now earn their NATE Certification with the Certified HVAC Professional (CHP-5).

The certification is made up of five thirty-question exams that mirror the ways technicians learn and grow in the field. Each exam covers one of five different subject areas, providing technicians a clear path to prepare for NATE Certification.



Service



HVAC Fundamentals



Electrical and Controls



Comfort and Airflow



Installation

CHP-5 TRAINING RESOURCES

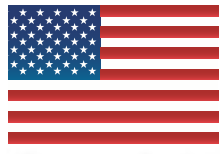


NATE Training Academy features **on demand courses** to prepare technicians for the CHP-5 exams.

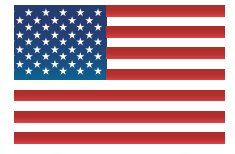
NATE offers **official study guides** for the CHP-5 as well as other NATE certification exams in the NATE online store.

www.NATEX.org





NEW IN USA



Maestro A/C & Heat Pump with no outdoor unit!

BEAUTIFUL OUTSIDE



Maestro Wi-Fi App available

COMFORTABLE INSIDE



MAESTRO PRO

With no outdoor unit



Features:

- Inverter Compressor and Variable Speed Motor
- Heating & Cooling Capacity up to 11,600 btu/h
- Installation Versatility: Low and High Wall
- Easy Installation & Maintenance
- Remote Control (standard)/Wall Thermostat (optional)
- 115V & 230V 1 Phase available in stock

AIR TREATMENT CORPORATION

So CA: ddavitt@airtreatment.com
 No CA: mtrujillo@airtreatment.com

Los Angeles - HQ 909.869.7975
Sacramento 916.362.4678
Fresno 559.664.9719
San Diego 858.569.5256
Bay Area 510.769.0700

OLIMPIA SPLENDID
HOME OF COMFORT

ITALIAN COMPANY
SINCE 1956

www.olimpiasplendidusa.com
sales@olimpiasplendidusa.com

Industry News

Continued from Page 10

Uponor provides and showcases us as an employer of choice.”

In addition to receiving the Top Workplaces awards, Uponor has also been recognized this year with two Minnesota Governor’s Safety Awards, the David Weekley Homes National Preferred Partner Award, and the Plastics Pipe Institute Project of the Year Award in the Building and Construction Division.

.....

Air Pros Founder Named Entrepreneur of the Year

Davie, Fla. – Anthony Perera, who in just six years took the HVAC contracting company he founded, Air Pros USA, from a single truck and two employees to a multi-location business with 800 trucks and



ANTHONY PERERA, AIR PROS USA FOUNDER.

more than 1,000 employees, has won Ernst & Young’s Entrepreneur of the Year 2023 Florida Award.

Perera, the chief growth officer at Air Pros USA, was selected by an independent panel of judges; the Entrepreneur of the Year program, sponsored by the business management consulting company Ernst & Young (EY), celebrates visionary business leaders, recognizing them

for going above and beyond in their ingenuity and devotion to innovating their ideas.

“I am honored and grateful to be recognized as a winner by the Ernst & Young Florida team for this prestigious award,” Perera said in a press release. “I would not be in this position without the support of each and every member of my teams over the years, and this is a testament to all of their hard work and dedication as much as it is to mine.”

Perera founded Air Pros USA in 2017 in Fort Lauderdale and has expanded it to 16 service locations – in Florida, Texas, Colorado, Georgia, Alabama, Louisiana, and Washington – that together serve more than a million customers.

Air Pros USA is also involved in several community outreach projects, working in partnerships with the Broward County Boys and Girls Club, the Miami Dolphins, and numerous nonprofits in communi-

ties in which it has locations.

Perera has successfully built multiple business ventures. At age 19, he launched his first business, an off-road publication called Mud Life Magazine and its parent company, Extreme Media Group. The magazine became a nationwide bestseller and he expanded the brand to include online media and a retail marketplace.

During the pandemic, Perera launched Inspected.com, a remote platform that uses a simple user interface to help contractors schedule, inspect, and clear municipal permits securely, saving small businesses and city governments time and money.

“I nominated Anthony for this award because his personal character and business strategy epitomize what it means to be a great entrepreneur,” said Adam Talbot, a vice president at Cresa, a commercial real estate firm. “In all his ventures, Anthony is first and foremost motivated by integrity and honesty. His focus on human-centered policies and procedures that center the needs of his customers and colleagues will continue to lead him to accomplish great things.”

Regional award winners were announced on June 8, and the winners from each region will be considered by national judges for the Ernst & Young’s Entrepreneur of the Year National Awards, which will be presented in November.

The overall national Entrepreneur of the Year winner will then move on to compete in June 2024 for the EY World Entrepreneur of the Year Award.

.....

RIDGID Hosts “We Love STEM” Day for Students

Elyria, Ohio – RIDGID®, a part of Emerson’s professional tools portfolio, hosted its third annual “We Love STEM Day” in June for local students in grades three through eight. The event is designed to expose young learners to the real-world roles science, technology, engineering, and mathematics (STEM) play in their everyday lives and potential future careers.

“It was exciting to see the curiosity and interest students had in learning about how STEM integrates into what we do in manufacturing,” said Rose Hitchens, event chair and chapter lead, RIDGID Women’s Impact Network for Emerson. “We were inspired by the creativity each student brought to the day’s activities and look forward to the mark they will leave on the world.”

Students participated in a variety of hands-on activities, including making balloon cars, robotic hands, pinwheels, water filtration systems and solar-powered cars. Each activity allowed students to learn about the importance of mechanical engineering, electrical engineering, renewable energy and natural resources in manufacturing.

RIDGID is a proud supporter of local programs and education-based initiatives throughout Lorain County, including the Elyria school makerspaces that reinforce STEM learning. The company also partners with current and future trade professionals and regularly invests and donates products. For years, its leaders have served on industry boards to help strengthen the trades.

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

.....

Ruskin Marks 65th Anniversary

Grandview, Mo. – HVAC manufacturer Ruskin, which specializes in dampers, louvers, energy recovery ventilators (ERV), air-measurement devices, and sound control for HVAC systems, is marking its 65th anniversary.

“Over the past 65 years, technology, climate change and advancing building standards have continuously jolted the industry,” said Jay Ramkumar, Ruskin’s executive director of national sales, in a press release. “Throughout this evolution, our commitment to service and product development have allowed us to consistently stay ahead of the curve and deliver unmatched air-control solutions year after year.”

Founded in 1958, Ruskin in 1973 opened a state-of-the-art facility in Grandview that would serve as its worldwide headquarters and that included a research and design laboratory that boasted Air Movement and Control Association (AMCA) and UL certifications. The lab allowed Ruskin to take its product development a step further by testing

Continued on Page 14

PROsync™
Wireless System

MAXIMIZE COMFORT

Introducing the ALL NEW PROsync™ Wireless System.

1-800-PRO-1-559 (776-1559) www.proliaq.com

**BACK
IN STOCK**

Who'd Like Cleaner Air?



Explorer®-IAQ Thermostats Feature a Built-in Air Quality Sensor.

Clean, healthy indoor air has never been more important. That's why our Explorer-IAQ thermostats include an exclusive Air Patrol® feature to continuously monitor and control indoor air quality. When needed, they automatically circulate polluted air through the HVAC's filtration system, so you and your customers can breathe easy.

- Built-in Wi-Fi, Bluetooth, and Sub-GHz radios
- Displays IAQ levels on free mobile app and website
- Compatible with easy pairing VenNet wireless sensors



Residential



Commercial



School



VENSTAR®



www.venstar.com

We are your #1 Source for Venstar Thermostats and Accessories – Visit us today!

USAirconditioning
DISTRIBUTORS

www.us-ac.com •

800/937-7222

ARIZONA Avondale 602/572-2953 Deer Valley 623/580-4101 Fort Mohave 928/768-2197 Mesa 480/813-4628	Peoria 623/334-8302 Phoenix 602/253-2771 Tucson 520/903-3117	CALIFORNIA Anaheim 714/776-3170 Bakersfield 661/322-7222 Burbank 818/840-0089 Cathedral City 760/770-4520	Chatsworth 818/678-1750 City of Industry 626/854-6868 Concord 925/349-3712 El Cajon 619/258-0672	El Centro 760/370-5530 Escondido 760/291-1281 Fairfield 707/424-6050 Fresno 559/266-8169	Hesperia 760/948-8045 Lake Forest 949/837-8104 Lancaster 661/726-5106 Los Angeles 323/897-6969	Modesto 209/577-2335 Newbury Park 805/376-1723 North Highlands 916/482-3572 Ontario 909/987-5016	Oxnard 805/988-3650 Palm Desert 760/200-5225 Paso Robles 805/238-9353 Redding 530/722-0144	Riverside 951/786-3500 S. San Francisco 650/871-8100 San Bernardino 909/885-3206 San Diego 858/279-9750	San Jose 408/278-1555 San Leandro 510/618-2300 Santa Barbara 805/962-2999 Santa Fe Springs 562/801-5432	Santa Rosa 707/566-9810 Signal Hill 562/981-2010 Stockton 209/466-4153 Temecula 951/296-6557	Valencia 661/666-9544 Van Nuys 818/464-3387 West Los Angeles 310/928-6660	IDAHO Idaho Falls 208/542-5270 Meridian 208/672-1244 or 800/727-9936	NEVADA Sparks 775/329-3455 UTAH Salt Lake City 801/485-8071 or 800/333-8436
----------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

CEC Rulemaking to Update HERS Regulations, Enhance Energy Code Compliance

Continued from Page 1

HERS regulations in California Code of Regulations, Title 20. These regulations established two parties to accomplish Energy Code compliance, Raters and Providers. Raters perform the FV&DT required by the Energy Code and HERS Regulations. Providers provide training, oversight, and compliance documentation for the activities of the Raters. Since the HERS program has been in effect, third-party Rater Companies have been established, but they have not yet been addressed by regulation. Rater Companies employ Raters to perform FV&DT under contract or by direct employment, but they are otherwise unregulated.

The CEC issued an initial Draft Staff Report FV&DT Requirements Update, and a Draft Staff Report HERS Requirements Update in October 2022. Following comments received at public workshops in November 2022 and January 2023, the CEC issued revised proposed regulations in revised draft staff reports. A third workshop was held June 9 for comments that was incorporated into the Final FV&DT Staff Report issued July 2023.

According to the CEC, as Cali-

fornia seeks to reduce greenhouse gas emissions, and decarbonize buildings by installing six million heat pumps by 2030, clear and effective Energy Code compliance program regulations are important. The scope of the changes proposed in the FV&DT Staff Report include conduct, responsibility, training, and quality assurance for the FV&DT program, as well as increased oversight by the CEC to improve program performance and protect consumers. The CEC is proposing to move all aspects of the FV&DT program requirements to the Energy Code. The CEC intends to update the Energy Code with these proposed changes to implement improvements to this program during the 2025 Energy Code update cycle.

Comments from workshop participants, including the two CEC-approved HERS Providers, CalCERTS and CHEERS, and independent HERS Raters and Rater Companies, where generally supportive of proposals to improve training requirements for Raters and improve quality assurance procedures.

Highlights of Proposed Changes
Naming Conventions--"Field Verification & Diagnostic Testing"

is considered unwieldy as the name of a program, so CEC staff recommends using the new name of "Energy Code Compliance" (ECC). As part of the overall effort to separate the Whole House Rater program from the FV&DT program, staff has proposed distinct names for the regulated parties in the program as: ECC-Provider, ECC-Rater, and ECC-Rater Company. However, staff also acknowledges the name value Raters have built through their past business and proposes allowing Raters to continue to refer to themselves as "HERS Raters," if desired, to ensure continuity in the marketplace.

As explained by CEC staff during the most recent June 9 workshop, the original HERS program developed for California included a whole house energy rating system involving an inspection and number rating assigned to an individual home to inform a prospective buyer of its potential energy use and cost to operate. CEC staffer and senior mechanical engineer Joe Loyer said, "The whole house rating program we have in California is a bit dated, and is one reason we've separated it out from the Energy Code Compliance process and requirements in this rulemaking." The CEC plans to address the

whole house rating system program in a separate proceeding.

Training – Because current Rater training requirements are limited, there are inconsistent programs between Providers. Staff proposes clear minimum training requirements that include proctored online training and exams, hands-on training, and increased initial oversight for Raters by the Providers.

Conflict of Interest – Some Raters pull permits for contractors, potentially influencing the Rater, and some Raters complete and sign compliance documents other than the Certificates of Verification. While the possibility of conflict of interest and collusion can exist between Raters and contractors, there are benefits to allowing Raters to maintain a working relationship with the contractors they test. To reduce collusion and conflict of interest, staff proposes that Raters be required to register a consent form signed by the homeowner or building owner prior to providing FV&DT services at the project site. Raters will be required to provide the homeowner/building owner a summary of all FV&DT services performed at the project site including the tests performed and their pass/fail status. Raters will also be required to register all Certificates of Verification within 72 hours of the actual performance of the test.

Quality Assurance Procedures – CEC staff believes Providers have insufficient quality assurance practices and regulatory options. Staff proposes establishing new quality assurance tracking and reporting requirements, and providing for prescriptive alternatives to existing quality assurance procedures. Staff also proposes allowing reduced quality assurance tests for "verified" Raters, defined as having a minimum of five years of experience, passing all required quality assurance tests in the last 12 months, and being recommended by the Provider as a trusted Rater.

Progressive Discipline – Since Rater Companies are currently not regulated in the HERS regulations, there is a lack of discipline options and procedures to address performance issues, including data falsification. The CEC proposes including Rater Companies in the FV&DT regulations and providing progressive discipline options to correct noncompliant behavior for Providers, Raters, and Rater Companies. This includes providing additional data entry safeguards.



For more information including staff reports, docket filings, and rulemaking proceedings, see: <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-0>.

Industry News


Continued from Page 12

equipment in simulated extreme conditions, including for the stringent requirements defined by the American Society of Mechanical Engineers (ASME) and National Quality Assurance (NQA).

In 1992, Ruskin responded to the effects of a natural disaster after Hurricane Andrew was deemed the largest and most expensive hurricane to hit southern Florida. Ruskin engineers used the testing grounds to pioneer wind-driven rain standards for louvers. Also in the early 1990s, Ruskin became the first manufacturer to receive louver product approval for use in Miami-Dade County, Florida, and the first to develop a Federal Emergency Management Agency-rated grille for extreme weather conditions.





Magic Aire manufactures air handlers, fan coils, unit ventilators and related products. Our operations are wholly contained in Wichita Falls, Texas. Magic Aire's world class customer support and operations delivers on time every time, with 99.8% on time delivery since 2009. You have enough to worry about, allow us to take care of this for you.




Quick Ship Program

Can't Wait? Quick Ship It! Custom configured units built in 10 days!



HBB Horizontal Belt Drive	HCA Horizontal High Efficiency Direct Drive	BVE Vertical Belt Drive	BMB Modular Belt Drive	BRD Rooftop Unit	DHB Horizontal Direct Drive	DVB Vertical Direct Drive	DUC Multi Position Direct Drive	CHA Horizontal Uncased Direct Drive	CH Horizontal Cased Direct Drive	FF/FS Floor Mounted
10 Day	10 Day	10 Day	10 Day	10 Day	10 Day	10 Day	10 Day	10 Day	10 Day	10 Day

*Quick Ship orders may have qty limit. *Quick Ship orders are built in 10 business days and take 3 to 7 days to ship from Texas. *Quick Ship orders have some feature limitations. *Quick Ship not available for units with phenolic coils or electric heat. *Quick ship orders are non-cancelable & non-returnable. *Lead time subject to change, check lead time bulletin for current offerings. *Actual scheduled ship dates will be defined via order acknowledgement, pending resolution of any questions or issues with order.



- Best lead time in the industry
- Options to meet your needs
- Shipping over 99% on time
- Same day order acknowledgements
- Most parts ship same day
- Built in Wichita Falls, Texas

Southern CA & Hawaii Magic Aire Manufacturers Rep: Bobby Hahn Jay Torres Janell DiResta Teresa Workman

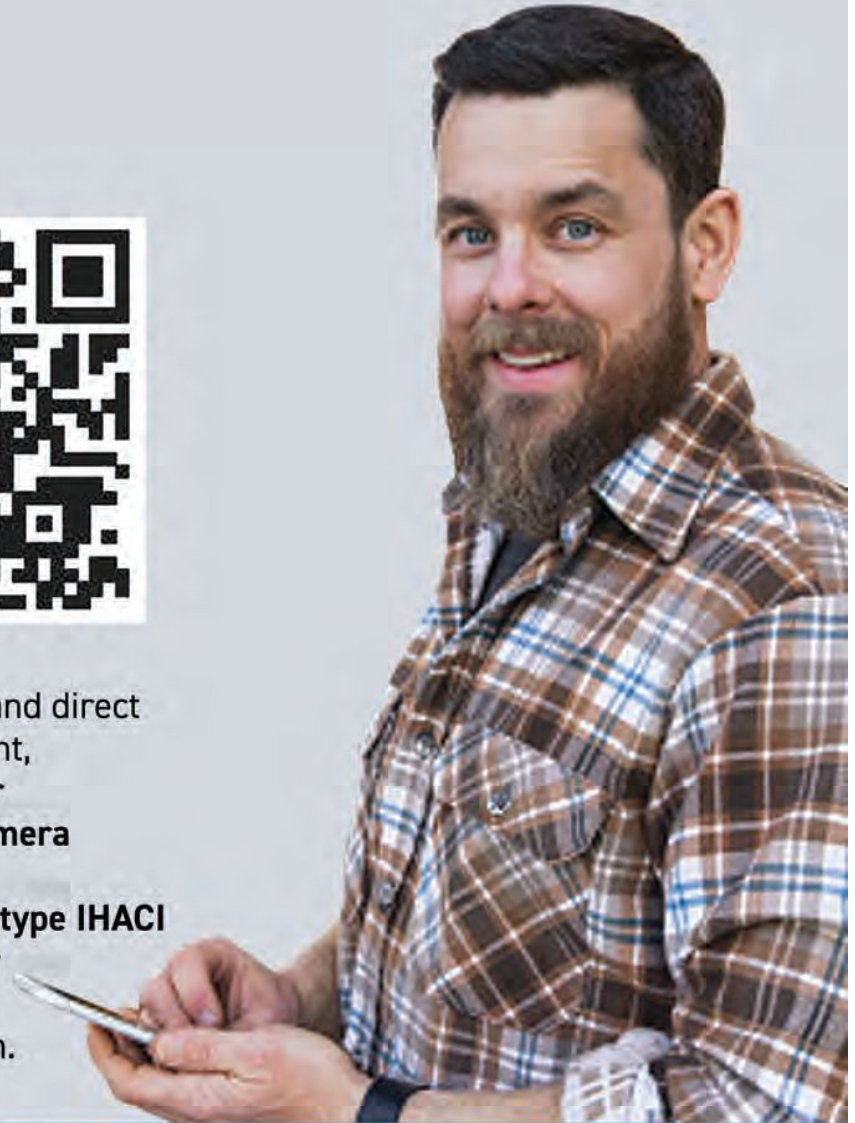
888-909-HVAC www.psg HVAC.com www.mAGICAIRE.com info@psg HVAC.com



THIS CODE UNLOCKS YOUR POTENTIAL



For quick, easy, and direct on-line enrollment, simply **open your Smart Phone Camera and hover over the QR code and type IHACI** in the search bar to access PG&E class registration.



PG&E offers free HVAC/R training courses designed to advance your skills.

Get started with advanced learning today!

www.pge.com/hvactraining

Pacific Gas and Electric Company is pleased to offer the following HVAC/R training courses specifically designed to advance the skills of HVAC/R professionals.

SEPTEMBER 2023

System Diagnostics Module

(Four-Night Class)

Instructor: Mitch Bailey
Wed., Sept. 6 – Part 1
Thurs., Sept. 7 – Part 2
Wed., Sept. 13 – Part 3
Thurs., Sept. 14 – Part 4

This class will be presented In-Person and webinar from the ETC.

OCT/NOV 2023

NATE CORE & Gas Heating (Four-Night Class)

Instructor: Mitch Bailey
Wed., Oct. 25 – Part 1
Thurs., Oct. 26 – Part 2
Wed., Nov. 8 – Part 3
Thurs., Nov. 9 – Part 4

NOVEMBER 2023

System Performance Module

(Four-Night Class)

Instructor: Mitch Bailey
Wed., Nov. 20 – Part 1
Thurs., Nov. 21 – Part 2
Wed., Nov. 29 – Part 3
Thurs., Nov. 30 – Part 4

NOV/DEC EXAM:
Saturday, Dec. 2 – 7:30 AM
In-Person/Onsite



All classes are currently held 6:00 pm to 8:00 pm.
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. "PG&E" refers to Pacific Gas and Electric Company, a subsidiary of PG&E Corporation. ©2022 Pacific Gas and Electric Company. All rights reserved. These offerings are funded by California utility customers and administered by PG&E under the auspices of the California Public Utilities Commission.



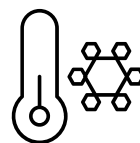
intelli-HEAT™ Series Now Shipping

Welcome to Hybrid HVAC

intelli-HEAT

Mitsubishi Electric's new product series - intelli-HEAT™ is available for order now. The intelli-HEAT Dual Fuel System provides cost-effective, efficient, and environmentally friendly cooling and heating all year round. intelli-HEAT easily mounts in-line with an existing thermostatically controlled furnace* and ductwork.

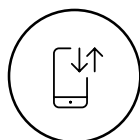
Contact your local distributor TM or Mitsubishi Electric Area Sales Manager for more product information and pricing.



Cold Climate heat pump with furnace integration



Superior efficiency AC replacement solution



Intelligent comfort control manages operation between heat pump and furnace



Compatible with single or multi-zone systems which provides a true zoning solution



Compatible with thermostatically controlled furnaces*

Scan this QR code for additional technical data from LinkDrive



*Mitsubishi Electric air conditioner and heat pump systems should only be connected with ANSI-Z21.47/CSA2.3 certified furnaces

NEW TECH CLEAN 2.0 REBATES FOR CALIFORNIA

Program Design	2023
Incentive Structure	Flat
Incentive Level	\$1,000 HP rebate only
Eligible Customers	All customers in California
Eligible Equipment	AHRI matched pairs only
Project Limitations	Up to 2 incentives per household

Important Program Information From TECH Clean:

- The incentive rate will be \$1,000/unit everywhere in California.
- The equipment/project qualifications are the same as before: code minimum is accepted (new SEER2/HSPF2 ratings) and limited to 2 units per dwelling unit.
- Only situations where a heat pump is replacing a non-heat pump heating source is eligible. Conversions from heat pump or heat pumps added to a previously non-conditioned space are not eligible.
- Dual fuel equipment will continue to be allowed, but again must be part of a matched pair system where the HP is providing the primary heating source.

NOTE: Eligible projects will only be those that had a signed contract on or after April 25, 2023 will qualify.

For additional information, please contact: TECH.contractor@energy-solution.com

TECH CLEAN CALIFORNIA

Single-Family HVAC Incentives

Please Note TECH Clean California is offering substantial incentives direct to contractors to support the installation of heat pump technologies in existing single-family homes throughout the entire state of California. Incentives are available only to TECH Clean California enrolled contractors. To find out more information or sign up, please go to <https://switchison.org/contractors/tech-clean-california>. Please note that these incentives are only available in retrofit scenarios where a heat pump is replacing a non-heat pump system.

Single-Family Incentives
Single-family incentives are available for any properties with four or fewer dwelling units or for individual replacements in a larger multifamily building. TECH Clean California is providing flat incentives throughout California. Additional incentives available through TECH partner programs can be stacked on top of TECH rebates for a higher total potential incentive. Please visit <https://incentives.switchison.org/contractors> for a list of available heat pump rebates throughout California.

The following incentives will be available for all qualifying installations for HP HVAC. Note, for single-family HP HVAC, incentives are based on the number of outdoor units and are limited to incentives for two outdoor units per home.


Equipment Type	Minimum Efficiency Requirements	Total Incentive Per Unit
Package, split, mini/multi-split (Only AHRI matched pairs)	Title 24 code minimum	\$1,000

For full information about claim requirements, please visit <https://switchison.org/contractors/tech-clean-california>

TECH Clean California HVAC Single Family Project Checklist (on reverse)
This checklist is provided as a reference and includes the key terms to remember when scoping and completing a project you intend to submit for a TECH Clean California rebate. We suggest that you print this checklist out and provide to all technicians interacting with customers to ensure all parties know the required data to collect and the steps to take to ensure that the application is accepted.

TECH Clean California
TECH.info@energy-solution.com

TECH Clean California is funded by California ratepayers and taxpayers and administered by Southern California Edison Company under the auspices of the California Public Utilities Commission.



You must re-enroll for the TECH Clean 2.0 program. Scan this QR code to fill out the new enrollment form.




TECH
CLEAN CALIFORNIA

CSLB Takes Positions on Contractor-Related Legislation, Approves New Officers

By Ted Rieger
Northern Calif. Correspondent

The California Contractors State License Board (CSLB) took positions on several current bills at a recent Board meeting June 22, reviewed licensing statistics, and approved new Board officers for 2023-24. Six bills currently active in the California Legislature being followed by the CSLB affecting contractors and CSLB operations are described below.

AB 336 Cervantes (D-Riverside) – Workers’ Comp Classification Codes. Would require all active contractors at the time of license renewal with workers’ compensation (WC) insurance to certify on the license renewal form the WC classification codes for their employees for the top three classification codes for which the highest estimated payroll is reported on the WC policy. Contractor organizations who support the bill say that some unscrupulous contractors do not purchase the appropriate WC policies for the work they do, in order to avoid higher costs, which can create unfair competition for legitimate contractors when bidding for work. The CSLB adopted a neutral position on this bill.

AB 968 Grayson (D-Concord) – Single-Family Residential Property Disclosures. A seller of a single-family residential property who accepts an offer for sale of the property within 18 months from the date that title for the property was transferred to the seller, shall disclose, in

addition to other home sale disclosure requirements, the following: any room additions, structural modifications, alterations or repairs made to the property performed by a contractor since the seller held title; the name of each contractor who performed work under contract; and copies of any building permits for work obtained by the seller. This bill’s intent is to address the practice of “house flipping,” in instances where a person buys a home and performs improvement work for a quick turnaround sale for profit. The intent is to increase compliance with building codes and permit requirements. The CSLB supports this bill.

AB 1204 Holden (D-Pasadena) – Contractors, Restrictions on Sub-contracting to Other Sub-contractors in Same License Class. This bill would prohibit a specialty contractor from entering into a contract for work on the same single project or undertaking with more than one subcontractor in the same license classification as the specialty contractor offering the contract, unless either of the following apply: a) The subcontractor employs persons who are classified as employees to perform the work in that license classification on the project, or b) The specialty contractor is a signatory to a bona fide collective bargaining agreement that covers the type of work being performed on the project and addresses the issue of subcontracting. According to the bill’s sponsor, the State Building and Construction Trades Council of California, the issue

of employees being misclassified as independent contractors remains an ongoing problem in the construction industry, with independent contractors used because they can underbid the work at the expense of law-abiding contractors. This bill is intended to help solve the problem of misclassification of employees and improve compliance with workers’ compensation requirements. The bill is supported by the Air Conditioning Sheet Metal Association of California, and the Legislative Conference of the Plumbing, Heating and Piping Industry. The CSLB has a neutral position on the bill.

SB 544 Laird (D-Santa Cruz) – Teleconference Board Meetings. Would amend the Bagley-Keene Open Meeting Act by codifying the existing Governor’s Executive Order issued during the COVID pandemic to allow state government boards and commissions, including the CSLB, to continue to have the option of conducting remote meetings by teleconferencing, with proper public access, noticing and posting of agendas. The use of teleconference meetings in recent years has shown benefits in increased participation, reduced state operating costs, and it potentially will help attract and retain appointees to boards and commissions. The CSLB supports this bill.

SB 601 McGuire (D-Santa Rosa) – Increased Fines for HIC Contract Violations in Disaster Areas. This bill specifies that a licensee or a person

subject to licensure who violates certain requirements under a home improvement contract in a location that has been declared a disaster area will be subject to an increased misdemeanor fine of a minimum of \$5,000 up to \$15,000, or imprisonment in the county jail for up to one year, or both. CSLB supports this bill.

SB 630 Dodd (D-Napa) – Collection of Licensee and Applicant Emails. Would give the CSLB authority to require a license applicant, registrant, or licensee with an email address to provide the email address at the time of license application or renewal for the purpose of receiving communications from the CSLB. The email addresses would be protected from public disclosure. The CSLB believes this is a more efficient and cost-effective method of communicating with applicants and licensees and it would save money on USPS mailing costs. The CSLB sponsors and supports this bill.

C-20 HVAC Licensee News
The CSLB Licensing Committee and Staff presented statistical information indicating a general reduction in active license renewals over the past two years. As a result of a new law requiring workers’ compensation insurance (SB 216) effective in 2023 for four classifications: C-20 HVAC, C-8 Concrete, C-49 Tree Service and C-22 Asbestos Abatement, renewals across these four classifications have been in decline. From January to June 2023, the number of licensees in the four classes decreased by 584, with

the C-20 HVAC class showing the greatest decline with 239.

The CSLB Public Affairs Office is working to establish communications channels with C-20 HVAC contractors and C-38 Refrigeration contractors regarding energy work as it relates to state policy and the Governor’s carbon reduction goals as their implementation moves forward. This is expected to take the form of industry bulletins, and an industry meeting to be held in October.

New Board Officers

The Board approved the following as 2023-24 Board Officers:

Chair – Diana Love, of Palm-dale, a Board Public Member representing a senior citizen organization, is a member of the Los Angeles County Commission for Older Adults.

Vice Chair – Michael Mark, of Stockton, a Board Public Member representing a labor organization, is the business representative of Sheet Metal Workers’ Local Union No. 104.

Secretary – Miguel Galarza, of Millbrae, a “B” Contractor Board Member, is Founder and President of Yerba Buena Engineering & Construction, Inc.

The Contractors State License Board protects consumers by regulating the construction industry through policies that promote the health, safety, and general welfare of the public in matters relating to construction.

For more information, visit www.cslb.ca.gov.

CANNABIS MECHANICAL

Do you struggle to control Humidity in Grow Facilities? My REHEAT kit will fix the problem growers have and you will learn HOW TO BUILD Grow Rooms. Scan my links to learn more. Steven Landry, Cannabis Specialist

405-833-6409 cannabismechanical.US

Scan Learn

Contractor Survey

Continued from Page 1

also expressed about significant delays from design teams in producing contract documents on most projects.

Plumbing-only contractors specifically reported a confidence index of 49.2%, versus 61.4% for HVAC-only contractors. This breakdown follows the trend of the past few indices, with HVAC contractors consistently reporting higher confidence than plumbing contractors.

Top contractor challenges identified included:

- Finding and hiring trained and skilled employees for both plumbing & HVAC.
- Inflation, lower ROI, high diesel prices, high costs for new

construction and remodeling.

- Increased operating costs due to increased cost of living and increase in materials costs.

- Difficulty getting equipment repaired on a timely basis.

- Availability issues with materials and high and rising insurance costs.

Roughly 62% of PHCC contractors anticipated normal to better sales in the future. Forty percent are not operating with full staffs, down from 47.1% in the first quarter. About 68% of respondents reported rising costs, and 40% of respondents noted delays in shipping.

Looking ahead, 71.1% of CCI respondents are anticipating increased costs of doing business (parts, materials, labor), and more than half are worried about a pos-

sible recession, as well as continued challenges finding qualified employees and technicians.

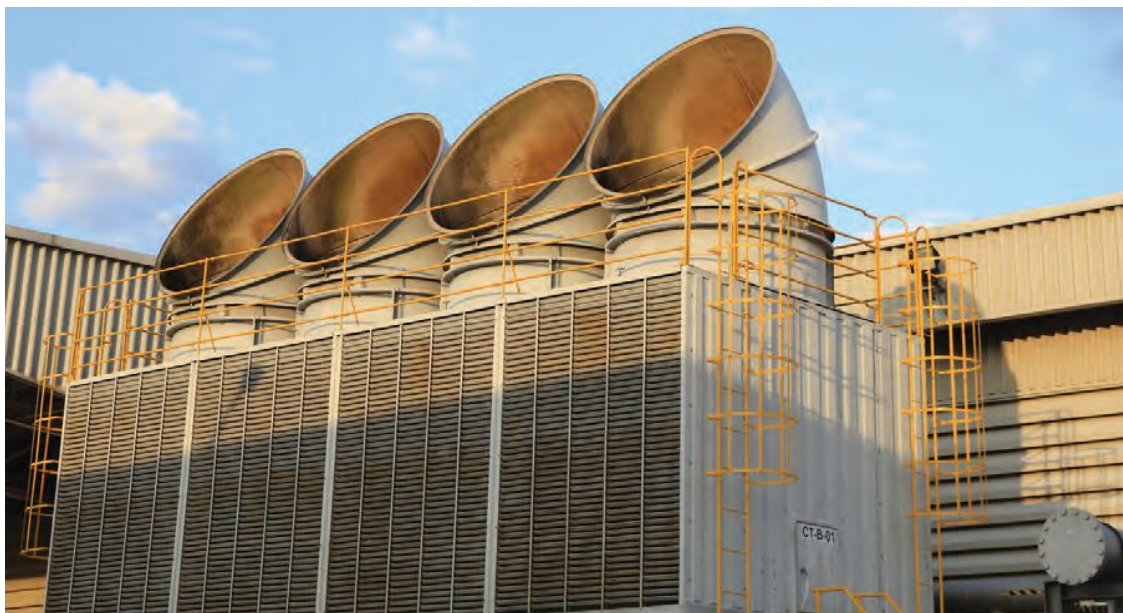
The top concerns that contractors reported regarding the next six months included staffing, continued disruptions with oil boiler heating products, and further supply chain issues.

The PHCC’s CCI is based on a quarterly survey of PHCC members. The survey asks respondents to rate market conditions for the present and for the next six months. Survey results and the CCI were developed as a general sense of contractor sentiment and should not be used as a guaranteed indication of future performance of the economy and the industry. Many PHCC contractors provide both plumbing and HVAC installation and service.



No-cost online training that can help you get ahead

Access online classes from the comfort of your home or office



AUGUST CLASSES

Cybersecurity & Building Automation Systems: What is BACnet/SC?
August 3 | 9 a.m. - 10 a.m.

2-PART SERIES

IHACI - Commercial Cooling Tower Module
August 9 & 10 | 6 p.m. - 8 p.m.

2-PART SERIES

IHACI - Boiler Module
August 16 & 17 | 6 p.m. - 8 p.m.

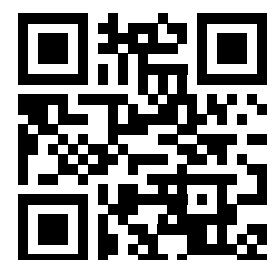
2-PART SERIES

IHACI - Commercial Refrigeration Module
August 23 & 24 | 6 p.m. - 8 p.m.

ON-DEMAND

ITsAboutQ.net - Online Training Program - Technician Education & Certification
hvacredu.net/sdgetraining

Reserve your seat today and check out other classes at seminars.sdge.com or simply scan the QR code.



Some programs are funded by California utility customers and administered by San Diego Gas & Electric® under the auspices of the California Public Utilities Commission.

© 2023 San Diego Gas & Electric Company. All copyright and trademark rights reserved. S2380041 0623

IAQ, Zoning & Air Distribution Products

Airzone Easyzone



Airzone, a global leader in dynamic HVAC control solutions, announces the long-awaited launch of Easyzone in the North American market. Easyzone is a plug-and-play, all-in-one zoning solution for concealed inverter and VRF HVAC units.

Easyzone is well established in the European marketplace as an easy-to-install and energy-efficient zoning solution. It ships as a pre-wired kit, including the thermally insulated motorized plenum, control board and plenum neck. The plenum neck provides custom mechanical adaptation for each model of HVAC unit, so installation is truly plug-and-play. Easyzone is available with either 6- or 8-inch dampers.

Once installed, Easyzone can regulate temperature and airflow capacity in up to six independent zones via Airzone's patented airflow regulation mechanism. No bypass damper is required; Airzone's unique control board precisely adjusts the airflow and unit capacity, resulting in energy consumption savings of up to 30%.

"Easyzone delivers exceptional efficiency without sacrifice," says Antonio Mediato, founder and CEO of Airzone. "Every occupied zone is maintained at its ideal temperature. It offers far more precise unit control than a typical zoning solution, and unlike with a VAV, there's no energy wasted through use of a bypass. Easyzone adjusts the system's capacity to the real needs of each moment, so the same space can be made more comfortable with a less powerful indoor unit."

Easyzone is backed by Airzone's exclusive library of manufacturer protocols, enabling sophisticated two-way communication between the VRF unit and the Easyzone system for controlling airflow capacity, set point temperature, fan speed, operation mode and more. Easyzone is compatible with a range of fully programmable wired and wireless thermostats, enabling seven-day scheduling, setback, etc. for each zone. Airzone's deep API stack also enables full integration with BMS such as BACnet and Modbus and home automation

systems including Control4, Crestron, Lutron, ELAN, and Savant. The system can also be controlled remotely from any location via a web browser or the Airzone Cloud app, available on iOS and Android. HVAC professionals can also access the unit to check the error codes remotely through the app.

More information:
www.airzonecontrol.com.



Fresh-Aire UV Blue-Tube UV-X



Fresh-Aire UV, Jupiter, Fla., a leading manufacturer of indoor air quality (IAQ) products, introduces the Blue-Tube UV-X, the enhanced, next generation of the world's most popular UVC light, the Blue-Tube UV for HVAC systems. The feature-rich Blue-Tube UV-X features an industry-leading three-year lamp, a newly-designed mounting bracket, upgraded power supply and 90-degree electrical connector.

Like its predecessor, the patented Blue-Tube UV-X keeps HVAC interiors clean of biological contaminants and continually treats the airstream.

The Blue-Tube UV-X's mounting bracket redesign includes a smaller footprint and a powerful magnet with an anti-vibration coating that prevents vibrating out of position when positioned near an evaporator coil or in a plenum or duct. The mounting assembly also includes a 90-degree low profile electrical connector for the remote power supply that offers inches of more clearance than space-consuming straight plugs in HVAC confines.

The compact lifetime warranty power supply, which carries Fresh-Aire UV's renowned lifetime warranty, now features a power and lamp indicator LED on the low voltage power supply model. The power supply is available in two models:

- 18-32 VAC, 60-Hz, 0.8-amps, 20-VA in a 4.2 (l) x 1.8 (w) x 1.7 (d)-inch (106 x 45 x 43-mm) enclosure.
- 110-277 VAC, 60-Hz, 0.18-amps/120V through 0.09

Amps/277V in a 5 (l) x 2.4 (w) x 1 (d)-inch (127 x 61 x 25-mm) enclosure.

The Blue-Tube UV-X also features a three-year, 15-inch-long (381-mm) UVC (254-nm) quartz lamp and UL-2998 validation as free of potentially harmful ozone.

Other APCO-X MAG features include:

- Designed and assembled in the US;
- Consumer oriented packaging helps contractors educate consumers on the benefits of UV disinfection.

While SARS CoV-2 has inspired many industry products with airborne virus neutralization claims, the Blue-Tube UV-X maintains UVC fundamentals of reliable microbial prevention for sterile HVAC coils and interiors, in addition to airstream disinfection.

More information:
www.freshaireuv.com.



Greenheck KSQ

Greenheck's new KSQ mixed flow roof supply fan provides energy-efficient building supply or untempered make-up air in applications where heating and cooling are not required.

Model KSQ is available in direct drive sizes 7 through 33 with performance up to 16,750 cfm and 2.75 in. wg in multiple configurations including horizontal or bottom intake and horizontal or bottom discharge. The KSQ's mixed flow wheel improves airflow and efficiency while reducing sound levels, and its compact design enables a smaller footprint.

Washable aluminum filters are included with the option to add pleated MERV 13 filters on bottom intake configurations. Vari-Green® motors are available through 10 hp, while panels on either side of the unit provide quick access and inspection.

A knockdown field-installed weatherhood kit is provided. Multiple options and accessories are available including intake and discharge options, roof curbs, duct adapters, backdraft and control dampers, coatings, duct collars, isolation options, disconnect



switches, and controls. AMCA licensed for FEI, Air and Sound Performance and UL/cUL 705 Listed, model KSQ is ideal for filtered roof supply, untempered make-up air, kitchen supply, stairwell/elevator shaft pressurization, and other clean air applications.

More information: www.greenheck.com/products/air-movement/fans/roof-mounted-fans/mixed-flow-supply-fans.



Johnson Controls FRICK AcuAir



Johnson Controls, a global leader for smart, healthy and sustainable buildings, announced enhancements to its product line of FRICK® AcuAir® Hygienic Air units with the goal of reducing overall delivery times and improving customer experiences. The line of precision-engineered systems now includes a standard mixed air-style product line featuring 19 models (ranging from 7K – 100K) and has been designed to improve the delivery of sanitary air to food-process rooms. Using standardized models allows proposals and submittal packages capable of delivery within hours, makes it possible for food processing plants to receive the units when they need them and avoid interruption.

AcuAir Hygienic Air units are designed to help processors manage conditions to meet comply with government requirements for food safety. The new AcuAir Hygienic Air units reduce plant downtime and associated cost by keeping process room temperatures between 35 F and 40 F, reducing the need for daily sanitation cycles and increasing production. Effective management of cleaning intervals can also get process rooms back to production in a timelier manner.

"It's critical that our products evolve with our customers' growing challenges," said Ian Reynell, executive director, product management and commercial excellence at Johnson Controls. "We've standardized our AcuAir Hygienic Air units to help our customers receive products faster and keep their process rooms running more efficiently. At Johnson Controls, we are always driving innovation

in our products and finding new solutions – we listen, learn and find ways to better address our clients' needs and make their lives easier."

Additional enhancements to the AcuAir line have been added to improve the food processor's experience by reducing energy use, managing condensation, removing contaminants and limiting air migration:

- ECM fans for AcuAir Hygienic Air units improve energy efficiency and reduce operating costs
- Standardized direct-driven plenum fans circulate process room air and are readily available for component replacement and upgrading

• The improved AcuAir Quantum HD Unity™ Controller uses hygienic air processing control logic to provide efficient control of the process room environment

More information:
www.johnsoncontrols.com.



RectorSeal Dust Free Duality Dual-Spectrum



RectorSeal, a leading manufacturer of quality HVAC/R and plumbing products, is adding the Dust Free® Duality Mini Dual-Spectrum UV light designed for ductless systems and HVAC installations subject to confined spaces.

With two LED strips, the Duality Dual-Spectrum delivers UVA and UVC light protection to help inactivate viruses and bacteria on damp surfaces of HVAC systems helping to ensure continued optimal performance. The dual-spectrum UV lights maximize sanitized surface areas, and the Duality's VOC filter doubles its sanitizing power.

While small in size, the Duality Mini UV light offers an extensive list of benefits, including:

- Dual UV LED Arrays
- Dual UV Spectrums, UV-A and UV-C Irradiation
- Dual Sanitizing Options
- Dual Input Voltage
- Zero Ozone Emission
- Electronically Commutated Motor

More information:
www.rectorseal.com.

SLIMDUCT™ SD

INABA DENKO
AMERICA

The finishing touch that fully protects your lineset installation

Use Slimduct SD to conceal, protect, and beautify exposed linesets. Made of high-grade PVC and featuring a diverse array of fittings, this unique solution is designed to protect even the most complicated configurations.



Various fittings for any application

- Premium protection
- Aesthetic cover
- 3 size options (3", 4" and 5.5")
- 3 colors (white, ivory, brown & black)
- Easy assembly
- 78" duct lengths

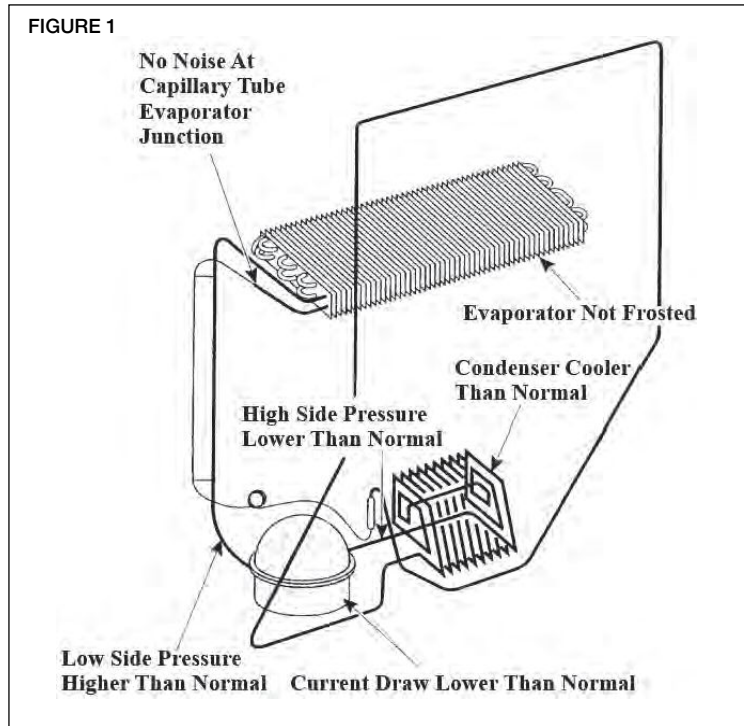
Learn more at www.InabaDenko-America.com



Follow us on 

Troubleshooting

FIGURE 1



An Undercounter Beverage Cooler Problem

By Jim Johnson
Contributing Editor

In this month's troubleshooting problem, the manager of a bar has requested service on an undercounter beverage cooler that is supposed to maintain a temperature of between 38 and 42° F, but the product is "warmer than normal".

Regarding the specifics of the refrigeration system, this equipment employs a fan cooled condenser, a heat exchanger made up of the capillary tube soldered to the suction line, and a pass of condenser tubing known as a Y-order Loop that prevents sweating of the cabinet. (See **Figure One**)

Upon your arrival, you find

that the customer has moved the unit out from under the counter because they thought perhaps the problem was that the condenser needed cleaning. When vacuuming the condenser didn't solve the problem, they called for service.

When you perform an initial inspection, you note that the compressor, condenser fan motor and evaporator fan motor are all operating. You also note that the condenser is cooler than normal, the evaporator does not have a frost pattern, and when you check the current draw of the compressor, you find it lower than normal.

As your next step, you check the refrigeration system operating pressures and find that the low side pressure is higher than normal, and

the high side pressure is lower than normal.

Your troubleshooting question: *What is the source of the problem with 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@techtrain-assoc.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 start capacitor has degraded. In equipment in which the OEM rating for the run capacitor is 50 MFD, the start capacitor would be rated at approximately 220 MFD.

The winner of last month's Troubleshooting is:

David Peterson
Casa Grande, Ariz.

Baker
Distributing Company

ADP Advanced Distributor Products®

PLUG & PLAY ALTERNATIVES FOR BAKER!

120V



BENEFITS:

- ✓ No pulling power wires
- ✓ No panel upgrades
- ✓ No combustion analyzer
- ✓ No gas manometer
- ✓ No clocking the gas meter
- ✓ No gas service troubles
- ✓ Multi-position* (*downflow kit required)
- ✓ Standard & High efficiency options
- ✓ Standard cabinet widths & heights
- ✓ 5-Speed High Efficiency ECM Motor
- ✓ Built in filter rack
- ✓ Factory installed TXV
- ✓ Standard plenum openings
- ✓ 36" - 48" total height
- ✓ dBA as low as 48
- ✓ Plastic Pan with Microban™ antimicrobial additive

Stop by your local Baker or visit
Bakerdist.com today!

TEMPSTAR
Heating and Cooling Products

GRAND AIRE
Heating & Cooling Products

Rheem

GREE
Air comfort for all

BOSCH

BOSCH



ADVERTISE IN
**INDOOR
COMFORT
NEWS**
CALL TODAY!

(818) 551-1555

Business Matters

Q&A with Dean Gilford, President of the Institute of Heating and Air Conditioning Industries

By Lawrence Castillo
Contributing Editor

This month's column highlights the President of the Institute of Heating and Air Conditioning Industries, Inc. (IHACI), **Dean Gilford**. We sat down to chat with him about IHACI and the future of our industry.

How long have you been a licensed contractor?

Since 1990. 33 years.

How long have you been a member of IHACI?

I've been with IHACI for the entire time I have been a contractor.....all 33 years.

Why should contractors join and be members of IHACI?

IHACI exists to help and support contractors. It is important that as contractors, we support the organization that lobbies on our behalf. IHACI keeps us informed of HVAC legislation, provides industry news, and works hard to make sure that the technician education classes that we sponsor remain free to the next generation in our industry.

Personally, I have been to Sacramento with IHACI fighting for the interests of contractors. It is critical that we have representation that is willing to challenge the bureaucracy that threatens to stifle the progress of our industry.

What is your view on the electrification movement?

Well, we must get on board regardless of our opinions. It is happening. The State of California has set parameters which we must follow. The conversion to Heat Pumps in residential applications allows SoCal contractors to avoid gas furnaces all together, thus eliminating ULN issues, and helping to usher our clients into the rebate and tax credit territory.

Personally, I'm a fan of heat pumps. I feel that natural gas furnaces have too many BTU's for where we live and can be wasteful.

What advantage does pulling permits give a contractor over those who don't?

Pulling a permit is the law. We all must decide on the kind of business that we want to have, and whether or not we are in the business of protecting the

interests of our clients.

When you pull permits, you can involve your clients in the incredible rebates that are currently available. When you convert to a heat pump system, the cost basis can be reduced so greatly that you are able to get your clients into much better equipment than before we had these new rebates. It's really a win/win.

What is the biggest hurdle facing residential contractors right now?

Medium-sized contractors like myself who are residential repair/replacement struggle to keep their installation schedules full and their people busy from November through March. The weather is just too perfect here in Los Angeles, and we don't have that winter/spring urgency that so many companies have around the country who have severe weather. It's a battle that we all face here.

Is there anything in residential contracting right now where we may see wholesale changes over the next few years?

QI/QM changes will separate larger and middle-sized companies from the smaller ones. Changes are on the horizon where contractors will need to prove the efficiency of the system. The need for independent HERS testers may go away also as contractors will have the tools to do this testing themselves.

Also, the involvement of Private Equity in our space will continue to change our sector. The country's economic performance over the next couple of years might cause PE firms to scale back investment, and that is when contractors that aren't a part of a portfolio might be able to step on the gas a little as they watch PE backed firms stay stagnant. There is a difference between PE deciding to stand still on their assets, and the companies that have no choice but to act and take advantage during a turbulent economy.

Why is the Annual IHACI Tradeshow in Pasadena so important?

The tradeshow is the once-a-year chance to see your friends in the industry, see your manufacturers and distributors, preview the new equipment, see the new workforce, and just have a great time in the presence of so many great people in our industry. Last year was our largest in many, many years, and this year is already ahead of last year's pace.



DEAN GILFORD, PRESIDENT OF IHACI

What can you say about the next generation of field workers in our industry?

Over the past 30 years, our workforce has changed so much. It used to be pagers and Thomas Brothers Map Books. Today, it is compression fit-

tings and Instagram accounts.

The number of distractions for our staffs has multiplied immensely. There are cellphones on every desk in your office, and in the hands of each of your technicians.

Our clients can now text us, or upload pictures and send them to us. In the old days, people used to drive to your office to pay their bill.

I think so much good has come over the past 30 years. Our industry has changed for the better, but I think there is a generation of us who miss analog gauges and paper contracts. We can't frown upon it.... it's just different.

What would you like your IHACI legacy to be?

I would hope that people would remember me as someone

that really cared about industry and the Institute. I have tried to be a leader and a good human being, and I run a reputable organization that has always done the right thing. It isn't always easy to operate that way, but if you do, your legacy and reputation will always be respected.

Any final thoughts for our readers?

If you are reading this interview and you're not yet a member, please consider the benefits of our organization. If you are a contractor, there is so much to gain by joining your fellow contractors who are already members. IHACI exists for your benefit. When you to become a member, you join with the people who share your support and commitment to elevating the standards in this great industry.

COMMERCIAL TRUCK CENTER

Get your service & install revenue rolling with Chevrolet and Ram Work Trucks at Sierra Truck Center

Your trusted partner for HVAC trucks & vans for over 25 years

SIERRA | **CHEVROLET** | **RAM**
AUTO GROUP

Contact Us 626.325.0076 | Visit Us sierratruckcenter.com | 721 E. Central Ave Monrovia, CA 91016

Authorized Dealers can get additional factory rebates!*

Carrier | Rheem | TRANE | bryant Heating & Cooling Systems | RUUD | LENNOX

*Must provide proof from manufacturer. Not available on all vehicles.

Technical Training

Growing Green Technicians Part 166: Suction Side System Performance Checks

By Jim Johnson
Contributing Editor

In the July segment of our series on evaluating refrigeration system performance via temperature checks, our focus was on the process of checking the high side pressure of a system and determining proper subcooling through the use of manufacturer charging charts in order to determine whether or not a system was correctly charged. In this issue, we'll turn our attention to the suction side of the system.

As with high pressure side evaluations, manufacturers provide charts for suction side system evaluation for systems that employ both a fixed bore metering device (piston assembly or other type of brass fitting), and for systems with modulating devices such as a thermostatic expansion valve or EEV, (Electronic Expansion Valve). As **Figure One** shows, the basic process is the same for low pressure system checks.

In the R-410A chart shown here, which is designed for fixed bore metering device systems, note that there are temperature

curves shown. These listings represent a wet bulb temperature check of the air entering the indoor coil. Along the bottom of the chart, these numbers represent the outdoor ambient temperature. Measuring these two temperatures allows a technician to choose an intersecting point of the two values measured, and then plot what the suction pressure (listings shown on the left side of the chart) should be if a system was operating properly.

Note: An important factor to remember when using suction side charts to determine correct refrigerant charge is that an incorrect air volume and/or velocity through the indoor coil caused by simple things like customers closing supply registers because "we're not cooling this room" or registers that are blocked by furniture, or a dirty filter, or an indoor coil that hasn't been cleaned after several years of operation, can skew the numbers resulting from your temperature checks and chart calculations.

Also, other factors that could affect the temperature checking process are related to the integrity of the duct system. Things to consider here are crawl or attic space

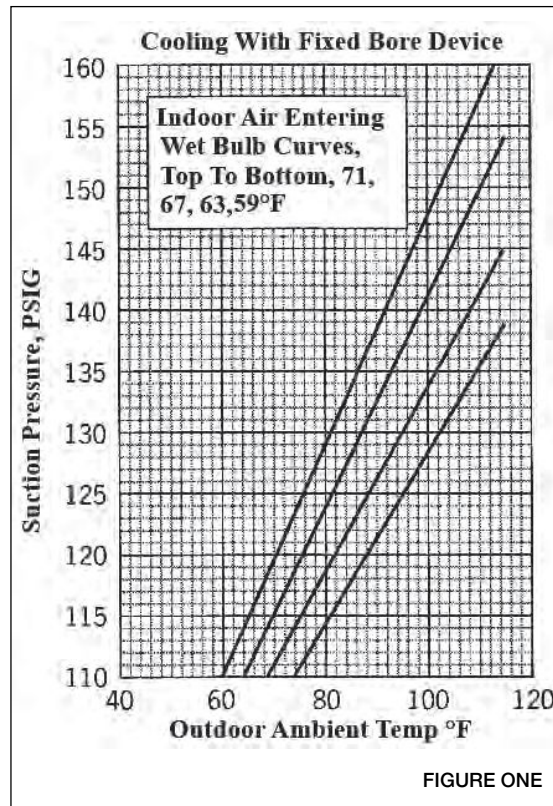


FIGURE ONE

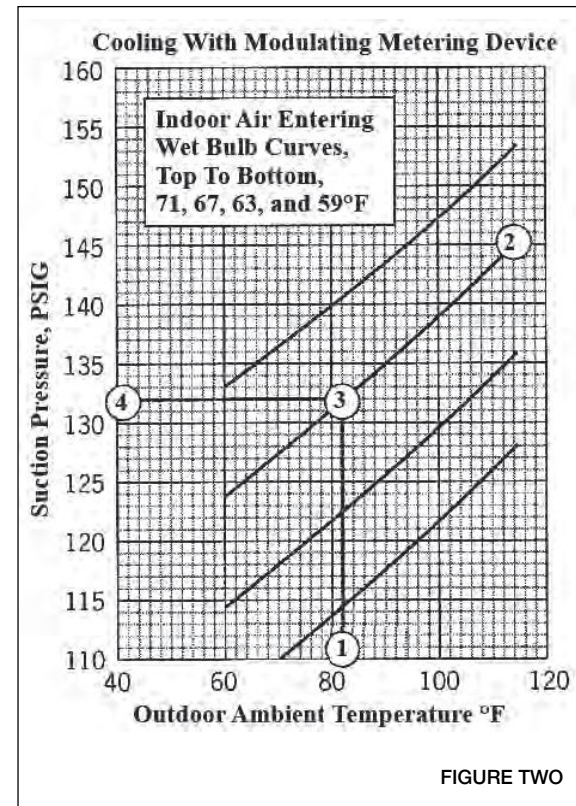


FIGURE TWO

air leaks into the return side of the system, or air that is being lost into those spaces from poor supply duct connections.

That said, we'll look at **Figure Two**, which illustrates the plotting process and calculating what the low side operating pressure should be in R-410A equipment when you're servicing a system that employs a modulating metering device.

For our example, we've determined that the outdoor ambient tem-

perature is 82°F. Starting from that calculation shown at point 1, we're also determine in our example that the indoor air wet bulb temperature was determined to be 67°F (the line shown as point 2), which leads to our intersecting factor (point 3) and plotting to the left from there brings us to a low side pressure of 132 PSIG (point 4). And, in considering this factor, an important factor to remember in this process is that manufacturers commonly

provide for an acceptable variation in suction pressure of plus/minus 3 PSIG, which means that in our example, our acceptable range of pressure would be from 129 PSIG to 135 PSIG.

When technicians take a green approach to evaluating and servicing comfort cooling systems, employing the specific diagnostic tools manufacturers provide, it ensures that the equipment is operating efficiently.

CPUC Decision

Continued from Page 1

to allow customers to receive a combination of energy efficiency and other home energy benefits like electrification, grid connected appliances, and energy storage simultaneously; enhancing op-

portunities for energy efficiency programs to leverage federal funds from the Inflation Reduction Act; and directly addressing community energy efficiency needs through a Community Based Program Design Collaborative.

"Our actions continue California's award-winning energy

efficiency program that is producing real results in lowering energy use by both residential and commercial customers. Our decision promotes the CPUC's equity and social justice objectives by spreading the benefits of this investment across customer segments, including hard-to-reach and underserved communities," said Commissioner Genevieve Shiroma, who is assigned to the proceeding.

"The decision continues to support innovative statewide, regional, and local energy efficiency programs while expanding access to underserved customers. It promotes greater oversight and provides guidance on avoiding program overlap to maximize the benefits of these programs," said CPUC President Alice Reynolds.

To help carry out energy efficiency work, California's Energy Efficiency Portfolio Administrators are comprised of the four investor-owned utilities (Pacific Gas and Electric Company, Southern California Edison, San Diego Gas & Electric, and Southern California Gas Company); a Community Choice Aggregator (Marin Clean Energy); and five Regional Energy Networks (RENs) (Bay Area Regional Energy

"Our decision continues California's decades-long commitment to pursuing energy efficiency as the first and best choice for energy procurement."

Darcie L. Houck, Commissioner

Network, Southern California Regional Energy Network, Inland Regional Energy Network, and Tri-County Regional Energy Network). The newest REN, Rural REN, will primarily deliver energy efficiency benefits via equity programs to underserved customers and communities in four different rural regions in central and northern California.

"Our decision continues California's decades-long commitment to pursuing energy efficiency as the first and best choice for energy procurement. I am particularly enthusiastic about the creation of the Rural Regional Energy Network, which will fill an essential gap in delivering energy efficiency upgrades and training to rural communities across the state," said Commissioner Darcie L. Houck.

Energy efficiency portfolios are split into four segments: 1) Resource Acquisition, focused on energy and capacity savings as well

as greenhouse gas emissions reductions; 2) Market Support, focused on long-term success of the energy efficiency market and technologies; 3) Equity, focused on ensuring better access and increased opportunities to engage for underserved customers and hard-to-reach communities; and 4) Codes & Standards, focused on improving energy efficiency of buildings and products through state and federal advocacy and other programs.

The proposal voted on is available at docs.cpuc.ca.gov/PublishedDocs/Published/G000/M512/K638/512638943.PDF.

Documents related to the proceeding are available at apps.cpuc.ca.gov/p/A2202005.

The CPUC regulates services and utilities, protects consumers, safeguards the environment, and assures Californians' access to safe and reliable utility infrastructure and services.

WANT TO SAVE ON CRANE COST?

PRO-LIFT

LIGHTWEIGHT
AIRCRAFT
ALUMINUM

PATENT
PENDING

EASY TO OPERATE
BATTERY
OPERATED

CALL TODAY (972) 939-3231 • WWW.PRO-LIFT.COM

Industry Education

TECH Clean California to Hold Heat Pump Water Heater Education Courses

Enroll in TECH Clean California the ENERGY STAR® HPWH Manufacturers Action Council (ESMAC)'s upcoming courses covering various topics surrounding heat pump water heaters (HPWHs). Even as an HVAC business, you can grow your business by expanding your offering to include HPWHs.

Target Audience

Licensed contractors (GCs, C36, C20), service managers, installers, service technicians, sales staff, customer service, and general administration.

Description

TECH overview, ENERGY STAR® overview, manufacturers HPWH education session focused on technology features and benefits, appropriate applications, energy efficiency comparison to other water heater types, installation techniques and best practices, service support and warranty, proper maintenance, troubleshooting, and selling strategies.

Topics covered in this session:

- Key differences between standard water heaters and heat pump water heaters
- Benefits of heat pump water heaters
- Installation best practices such as sizing considerations, suitable installation locations, and requirements for airflow, exhaust, and drainage
- Electric panel considerations
- TMV use and water temperature
- Programming/operating modes
- Customer education – how to use, what to expect, concerns about recovery time

Classes will be held as online webinars at 7:00 a.m. PST on the following dates:

- August 7th
- August 23rd
- September 11th
- September 20th
- October 9th
- October 25th
- November 13th
- November 29th
- December 11th
- December 20th

You do not have to be an enrolled TECH contractor to attend.

To register, visit aea.us.org/electrificationknowledge-hub.

TECH Clean California's Hybrid Water Heater Learn and Earn Program

Want to earn free Heat Pump Water Heaters for your Staff? Participate in the TECH Clean California's Learn and Earn program.

Participation Rules

- Contractor must be enrolled in TECH Clean California ([https://](https://techcleanca.com/)

techcleanca.com/)

- Contractor firm must hold a C20, C36, or General B License <https://www.cslb.ca.gov/>
- Recipient must have attended and completed the ESMAC webinar training and post webinar survey complete ESMAC training webinar - **to confirm completion you are required to complete the post-training survey**

- Recipient must receive a Certificate of Completion for manufacturer training for the equipment requested

- Each participant is required to install a TMV, enroll in DR and TOU

- Units received must be installed at the training attendee's home or business/shop. These installations will be part of TECH's

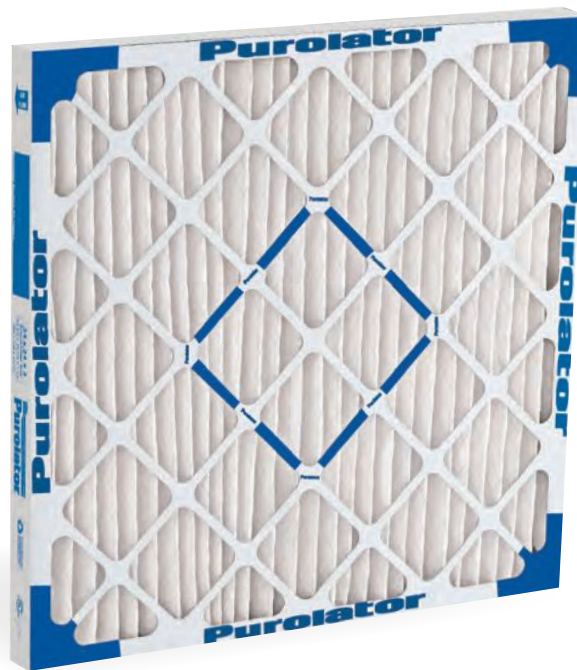
larger data collection and reporting process. NOTE: Units are not for RESALE

Steps of the Process

1. Sign up with TECH Clean California to become an enrolled contractor.
2. Each recipient must take and

Continued on Page 30

THIS IS PROTECTION



**Purolator® MERV 10
Extended Surface Air Filters**

*Mechanical efficiency rating
100% synthetic nonwoven material
Wire reinforced grid panel*

Parker's new Purolator MERV 10 air filter offers the perfect balance of superior air filtration and efficiency to achieve high indoor air quality. The 100% synthetic hydrophobic media delivers balance of superior air filtration and efficiency to achieve high indoor air quality. A galvanized wire grid back enhances the media's strength and maintains pleat integrity. You can expect these filters to extend the life of downstream filters and protect your processes and equipment. Visit parker.com/HVAC or call us at 866-247-4827.



parker.com/HVAC



ENGINEERING YOUR SUCCESS.

© 2023 Parker Hannifin Corporation

As the **Institute of Heating and Air Conditioning Industries, Inc. (IHACI)** celebrates its 75th anniversary, we'd like to recognize our long-standing Distributors, Manufacturers, Associates and Utility Companies who have supported us for more than 15 years.

3M

3M Center, Bldg 220-5W-07
St. Paul, MN 55144

AC Pro

11700 Industry Ave.
Fontana, CA 92337

A-Gas

1100 Haskins Road
Bowling Green, OH 43402

Airelink/Norman S. Wright

3325 E. La Palma Ave.
Anaheim, CA 92806

Airflow Specialties

10439 Jardine Ave.
Sunland, CA 91040

American Coil

1664 W. 139th St.
Gardena, CA 90249

Aprilaire

1015 E. Washington Ave.
Madison, WI 53703

Aspen Manufacturing LLC.

373 Atascocita Rd
Humble, TX 77396

Benoist Company

4802 E. Ray Rd. #23; PMB 276
Phoenix, AZ 85044

Braeburn Systems LLC

2215 Cornell Avenue
Montgomery, IL 60538

Brownson Technical School

1110 Technology Circle
Anaheim, CA 92805

C.A. Schroeder Co., Inc. (CASCO)

1318 First St.
San Fernando, CA 91340

Calif. Energy Commission

715 P Street; MS-37
Sacramento, CA 95814

Compressor Parts & Repair (CPR)

1501 N. Peck Rd.
S. El Monte, CA 91733

Crainco, Inc.

P O Box 3008
Whittier, CA 90605

Daikin Comfort Technologies Dist.

19001 Kermier Rd.
Waller, TX 77484

DBS Associates, Inc.

2480 Grand Ave.
Vista, CA 92081

ESCO Group

30065 Del Rey Rd.
Temecula, CA 92591

Ferguson HVAC

2750 S. Towne Avenue
Pomona, CA 91766

Fieldpiece Instruments

1636 W. Collins Ave.
Orange, CA 92867

Howard Industries

8855 Washington Blvd.
Culver City, CA 90232

KKAJ, LLP

27200 Tourney Rd. #475
Valencia, CA 91355

Long Beach Energy Resources

411 W. Ocean Blvd
Long Beach, CA 90802

Mason Industries, Inc.

350 Rabro Dr.
Hauppauge, NY 11788

P.I.P.E. Trust Fund

501 Shatto Pl. #200
Los Angeles, CA 90020

Pacific Systems Group

3855 Pacific Coast Hwy, Suite 16
Torrance, CA 90505

Panasonic Life Solutions

11252 Big Cone Dr.
Lakeside, CA 92040

R.E. Michel Company

1 R.E. Michel Dr.
Glen Burnie, MD 21060

Rahn Industries, Inc.

2630 Pacific Park Drive
Whittier, CA 90601

RCI Westech

1111 N. Armando St.
Anaheim, CA 92806

Resideo

2274 153rd Lane NW
Andover, MN 55304

Rottiers Sales Associates, Inc.

3117 Fite Circle Ste 104
Sacramento, CA 95827

Royal Truck Body

24200 S. Main Street
Carson, CA 90745

RSD/Total Control

26021 Atlantic Ocean Dr.
Lake Forest, CA 92630

SDG&E

8326 Century Park Ct. - CP12W1
San Diego, CA 92123

Sigler Wholesale Distributor (Carrier)

205 S. Puente St.
Brea, CA 92821

So Cal Sheet Metal JATC

633 N. Baldwin Park Blvd.
City of Industry, CA 91746

SoCalGas

9240 Firestone Blvd. ML ERC1
Downey, CA 90241

Soleus Air West

9645 Telstar Ave. #C
El Monte, CA 91731

Superior Duct Fabrication

1683 Mount Vernon Ave.
Pomona, CA 91768

The Jones Company

501 Third St.
Wheatland, CA 95692

TRC Sales, Inc.

11258 Monarch St. Ste M
Garden Grove, CA 92841

US Air Conditioning Dist.

16900 Chestnut St.
City of Industry, CA 91748

Western Component Sales

P.O. Box 5738
Scottsdale, AZ 85258

Westlake Risk & Insurance Services

2659 Townsgate Rd. #103
Westlake Village, CA 91361

Zonefirst

6 Aspen Dr.
Randolph, NJ 07869

Industry Events

ASHRAE Renews Carbon Reduction Focus at Yearly Conference in Florida

ASHRAE's annual conference, which brought HVACR industry leaders, researchers, and professionals together to exchange knowledge, explore advancements, and foster collaboration, wrapped up in Tampa, Fla. on June 28.

More than 2,050 HVACR industry professionals attended the five-day conference, during which the society named its president, officers, and directors for Society Year 2023-24.

Ginger Scoggins, P.E., an ASHRAE fellow, took office as the 2023-24 president. In her inaugural address, Scoggins spoke about the climate change-related migration that has taken place globally in the past 50 years and about ASHRAE's commitment to providing resources and thought leadership toward building decarbonization.

"We have worked to integrate a carbon-reduction focus throughout our ASHRAE committees, councils, and leadership to provide our industry with a clear indication of our commitment to this issue," said Scoggins. "We have several other initiatives under way, with a plan for their completion during this society year. ASHRAE has accepted the challenge of our time ... and we need you to join us."

ASHRAE also announced the approval of its much-anticipated pathogen mitigation standard, ASHRAE Standard 241, Control of Infectious Aerosols. This groundbreaking standard is a major step forward in reducing the risk of infectious disease spread in buildings, the society said. Standard 241 is available for presale now.

During the President's Luncheon, ASHRAE presented a special Presidential Certificate of Honor to the former White House COVID-19 response coordinator, Dr. Ashish Jha, for his advocacy during the pandemic, which led to initiatives that include the release of a National COVID-19 Preparedness Plan and the Clean Air in Buildings Challenge.

In his acceptance speech, Jha praised ASHRAE's leadership for the development of Standard 241 as a way to improve IAQ as a critical public health intervention in controlling the spread of infectious disease.

"This effort to try to improve indoor air quality and reduce the burden of respiratory

pathogens is something we have talked about at the White House – a lot of experts have been talking about it," said Jha. "Talking is important, but what ASHRAE did over the last six months in building out Standard 241, that just got approved, fundamentally changes the game. It is one of the most important public health interventions I have seen in years, if not decades. It is really heartening to see this organization take a central role in tackling the biggest challenges facing human health in the U.S. and around the world."

During the plenary session, Jeff Littleton, executive vice president and secretary, reported on the society's current initiatives, and in his farewell address, outgoing

president Farooq Mehboob reflected on his year as president and the accomplishments realized through the 2022-23 society theme, "Securing Our Future."

"In my inaugural presidential address, I spoke about the era of unpredictability that we are facing," said Mehboob. "I reminded you that the future does not belong to those who sit and watch, but instead we must seek it create it and secure it."

In addition to awards, speeches, and social events, the conference featured 90 sessions that covered a wide spectrum of topics, including energy-efficient design strategies, renewable technologies, and building decarbonization. The top technical session was the ASHRAE Building Decarbonization Update.



DR. ASHISH JHA, THE FORMER WHITE HOUSE COVID-19 RESPONSE COORDINATOR, ACCEPTS AN ASHRAE PRESIDENTIAL CERTIFICATE OF HONOR FROM OUTGOING ASHRAE PRESIDENT FAROOQ MEHBOOB DURING ASHRAE'S ANNUAL CONFERENCE.

Panasonic

Build with healthy air in mind

Panasonic WhisperAir Repair® advanced air purification and odor technology keeps indoor air clean and fresh around the clock. With Panasonic ventilation, filtration, circulation and purification products, you can safeguard the homes you build with the freshest, cleanest air possible.

Learn more at [AirRepairPurifier.com](https://www.AirRepairPurifier.com)

WhisperAir Repair
PURIFIED BY nanoeX

2023 TRAINING

CALIFORNIA QUALITY INSTALLATION, QUALITY MAINTENANCE AND QUALITY SERVICE

SOCALGAS, DOWNEY

AUGUST

System Performance Module

(Four-Night Class Cont. from July) Instructors: Mike Griffin / John Dalton

Wed., Aug. 2 – Part 3

Thurs., Aug. 3 – Part 4

SEPTEMBER

NATE CORE & Gas Heating Training (Webinar)

(Four-Night Class) Instructors: Mike Griffin / John Dalton

Wed., Sept. 6 – Part 1

Thurs., Sept. 7 – Part 2

Wed., Sept. 13 – Part 3

Thurs., Sept. 14 – Part 4

OCTOBER

NATE AC/HP Refrigeration & Air Distribution Training (Webinar)

(Four-Night Class) Instructors: Mike Griffin / John Dalton

Wed., Oct. 4 – Part 1

Thurs., Oct. 5 – Part 2

Wed., Oct. 25 – Part 3

Thurs., Oct. 26 – Part 4

Sat., Oct. 28 - NATE Exam, 7:30 a.m. (In-Person/Onsite)

SOUTHERN CALIFORNIA EDISON, IRVINDALE

SEPTEMBER

System Diagnostics Module

(Four-Night Class) Instructor: John Dalton

Wed., Sept. 20 – Part 1

Thurs., Sept. 21 – Part 2

Wed., Sept. 27 – Part 3

Thurs., Sept. 28 – Part 4

OCTOBER

Non-Res ATE Acceptance

(Two-Night Class) Instructors: Mike Griffin / John Dalton

Wed., Oct. 11 – Part 1

Thurs., Oct. 12 – Part 2

Non-Res ATT Acceptance

(Two-Night Class) Instructors: Mike Griffin / John Dalton

Wed., Oct. 18 – Part 1

Thurs., Oct. 19 – Part 2

NOVEMBER

System Performance Module

(Four-Night Class) Instructors: Mike Griffin / John Dalton

Wed., Nov. 1 – Part 1

Thurs., Nov. 2 – Part 2

Wed., Nov. 8 – Part 3

Thurs., Nov. 9 – Part 4

SOUTHERN CALIFORNIA EDISON, TULARE

SEPTEMBER

System Diagnostics Module

(Four-Night Class) Instructors: Mitch Bailey / TBA

Wed., Sept. 20 – Part 1

Thurs., Sept. 21 – Part 2

Wed., Sept. 27 – Part 3

Thurs., Sept. 28 – Part 4

OCTOBER

NATE CORE & Gas Heating Training

(Four-Night Class) Instructors: Mitch Bailey / TBA

Wed., Oct. 11 – Part 1

Thurs., Oct. 12 – Part 2

Wed., Oct. 18 – Part 3

Thurs., Oct. 19 – Part 4

NOVEMBER

NATE AC/HP Refrigeration & Air Distribution Training

(Four-Night Class) Instructors: Mitch Bailey / TBA

Wed., Nov. 1 – Part 1

Thurs., Nov. 2 – Part 2

Wed., Nov. 15 – Part 3

Thurs., Nov. 16 – Part 4

Sat., Nov. 18 - NATE Exam, 7:30 a.m.

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 scheduled for In-Person
All In-Person classes subject to change based on IO
Classes begin at 6:00 PM Pacific Time and class f
Register at www.ihaci.org

CLASS SCHEDULE

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

SAN DIEGO GAS & ELECTRIC

AUGUST

Commercial Cooling Tower Module (Webinar)

(Two-Night Class) Instructors: Mike Griffin / John Dalton

Wed., Aug. 9 – Part 1

Thurs., Aug. 10 – Part 2

Boiler Module (Webinar)

(Two-Night Class) Instructors: Mike Griffin / John Dalton

Wed., Aug. 16 – Part 1

Thurs., Aug. 17 – Part 2

Commercial Refrigeration Module (Webinar)

(Two-Night Class) Instructors: Mike Griffin / John Dalton

Wed., Aug. 23 – Part 1

Thurs., Aug. 24 – Part 2

SEPTEMBER

Electrical Module (Webinar)

(Four-Night Class) Instructors: Mike Griffin / John Dalton

Mon., Sept. 11 – Part 1

Tues., Sept. 12 – Part 2

Mon., Sept. 18 – Part 3

Tues., Sept. 19 – Part 4

OCTOBER

System Diagnostics Module (Webinar)

(Four-Night Class) Instructors: Mike Griffin/John Dalton

Mon., Oct. 16 – Part 1

Tues., Oct. 17 – Part 2

Mon., Oct. 23 – Part 3

Tues., Oct. 24 – Part 4

NOVEMBER

 **NATE Core & Gas Heating Training** (Webinar)

(Four-Night Class) Instructors: Mike Griffin/John Dalton

Mon., Nov. 13 – Part 1

Tues., Nov. 14 – Part 2

Mon., Nov. 20 – Part 3

Tues., Nov. 21 – Part 4

DECEMBER

 **NATE AC/HP Refrigeration &**

Air Distribution Training (Webinar)

(Four-Night Class) Instructors: Mike Griffin/John Dalton

Mon., Dec. 4 – Part 1

Tues., Dec. 5 – Part 2

Mon., Dec. 11 – Part 3

Tues., Dec. 12 – Part 4

PACIFIC GAS AND ELECTRIC COMPANY, STOCKTON

SEPTEMBER

System Diagnostics Module (In-Person & Webinar)

(Four-Night Class) Instructor: Mitch Bailey

Wed., Sept. 6 – Part 1

Thurs., Sept. 7 – Part 2

Wed., Sept. 13 – Part 3

Thurs., Sept. 14 – Part 4

This class will be presented In-Person and webinar from the ETC.

OCTOBER/NOVEMBER

 **NATE Core & Gas Heating Training** (Webinar)

(Four-Night Class) Instructor: Mitch Bailey

Wed., Oct. 25 – Part 1

Thurs., Oct. 26 – Part 2

Wed., Nov. 8 – Part 3

Thurs., Nov. 9 – Part 4

NOVEMBER/DECEMBER

 **NATE AC/HP Refrigeration &**

Air Distribution Training (Webinar)

(Four-Night Class) Instructor: Mitch Bailey

Mon., Nov. 20 – Part 1

Tues., Nov. 21 – Part 2

Mon., Nov. 29 – Part 3

Tues., Nov. 30 – Part 4

DEC EXAM: Saturday, Dec. 2 – 7:30 a.m (In-Person/Onsite)

on EXCEPT Where Noted.
 IOUs/CA COVID requirements.
 s format is subject to change
 org (Training)

This program is funded by California utility customers under the auspices of the California Public Utilities Commission.



Indoor People



GINGER SCOGGINS

ASHRAE has named its president, officers, and directors for Society Year 2023-24.

Ginger Scoggins, P.E., an ASHRAE fellow, will serve as the 2023-24 president. Scoggins introduced the theme for the year, “Challenge Accepted: Tackling the Climate Crisis,” during her inaugural address. The theme signals ASHRAE’s advocacy of integrated solutions for addressing the effects of the climate crisis through meaningful building decarbonization strategies.

“We are living in a climate emergency,” said Scoggins. “Our desire to be more comfortable has brought us to a place where we need to make uncomfortable decisions. We can accept the challenge of our day regarding the impact of our buildings on the climate crises by equipping our members with the knowledge they need to design and renovate buildings to address the greenhouse gas emissions of our industry.”

Scoggins is president and owner of Engineered Designs Inc., a consulting engineering firm in Cary, N.C.

Four other elected officers will serve one-year terms: president-elect Dennis Knight, P.E., principal, Whole Building Systems, Mount Pleasant, S.C.; treasurer Bill McQuade, P.E., vice president of

regulatory affairs, Baltimore Aircoil Co., Jessup, Md.; vice president Billy Austin, P.E., principal, Shultz Engineering Group, Charlotte, N.C.; and vice president Ashish Rakheja, director and CEO, Aeon, Noida, India.

In Society Year 2021-22, ASHRAE membership voted to amend Section 5.1 of the ASHRAE bylaws so that society vice presidents will serve one two-year term instead of two consecutive one-year terms. This approved amendment was implemented on the ballot for Society Year 2023-24 candidates. The new vice presidents Wade H. Conlan, P.E., principal, Hanson Professional Services, Maitland, Fla.; and Chandra Sekhar, CPEng., Ph.D., professor, National University of Singapore, Singapore, will serve two-year terms.

ASHRAE also introduced its newest directors and regional chairs, who will serve three-year terms:

- Region VII director and regional chair: Scott Peach, P.E., president, SP Engineering Inc., Mobile, Ala.

- Region VIII director and regional chair: Joseph Sanders, mechanical sales engineer, R.B. Akins Co., Oklahoma City, Okla.

- Region IX director and regional chair: Jonathan Smith, P.E., business development manager, Siemens, Lenexa, Kan.

- Region X director and regional chair: Buzz Wright, P.E., mechanical engineer, Kelly, Wright & Associates P.C., Tucson, Ariz.

- Region XIV director and regional chair: Mahroo Eftekhari, C.Eng., CDPHil, professor of building services engineering, Loughborough University, Loughborough, England.

ASHRAE also introduced its

newest directors-at-large:

- Doug C. Cochrane, P.Eng., independent consultant, Mississauga, Ontario, Canada.

- Corey B. Metzger, P.E., principal, Resource Consulting Engineers, Ames, Iowa.

- Heather Schopplein-Anderson, P.E., engineer, UMEC, Santee, Calif.



JOHN FANIZZA

Hospesco Brands Group, a manufacturer of a full portfolio of products that protect, clean, and provide care and comfort to millions around the globe, has named **John Fanizza** sales director. Fanizza has more than 25 years’ experience in jan/san and a deep familiarity with the product offering from his six years independently representing the company’s brands, which include Acute Care Pharmaceutical™, Adenna®, Chemcor, High-Tech Conversions, HOSPECO®, Nilodor®, and other popular brands. His territory will encompass Wisconsin and Illinois.

He has worked with some of the most recognizable brands in the industry, including leading janitorial supply, chemical, and skin care manufacturers. Highlights of Fanizza’s career include 10 years of product management experience, expanding distribution of leading brand products and private label programs in industrial/MRO channels, and proven success in diverse markets include manufacturing, industrial, group purchasing organizations, healthcare, and government.

Fanizza prides himself on a customer-centric approach focused on high service levels, a strong

work ethic, and an ability to deliver solutions for customers throughout the supply chain. He maintains deep knowledge of national accounts, distributor go-to-market strategies, and end-user accounts.

Fanizza earned his MBA from Loyola University Chicago.



Oatey Co., a leading manufacturer in the plumbing industry since 1916, announced that **Jamie Clapper** will serve in the newly created post of Vice President, eCommerce, for the company. Reporting to Brian DiVincenzo, Oatey Executive Vice President & Chief Commercial Officer, Clapper is charged with leading and growing eCommerce strategy in collaboration with various departments across the entire Oatey organization.

In addition to growing the Oatey eCommerce team, Clapper will foster customer relationships to better understand opportunities and efficiencies for an effective omni-channel experience.

“With more than 15 years of experience in eCommerce, Jamie is an accomplished leader with a deep knowledge of eCommerce strategy and digital merchandising,” says DiVincenzo. “Her expertise will be invaluable as we continue to expand our omnichannel eCommerce footprint, and I look forward to the impact she will make at Oatey.”

Based in Northeast Ohio, Clapper holds a bachelor’s degree in Product Development from The Ohio State University.



JAMIE CLAPPER



LOUISE MCCANN

A-Gas is pleased to announce the appointment of **Louise McCann** as Group Commercial Director.

Her objective is to lead the global commercial team in providing first class key account management, while enhancing the solutions A-Gas offers to its customers worldwide. Louise said: “I am proud to hold the position of Group Commercial Director as we continue our environmental journey. I am highly encouraged by the dedication of our global commercial teams as we seek to support our customers in fulfilling their sustainability goals through lifecycle refrigerant management.”

She joined A-Gas in 2005 and has held a number of roles in the A-Gas business, supporting customers during periods of regulatory change in various regions in line with their corporate commitments.

In 2015, Louise became Managing Director of A-Gas Australia, followed by re-locating to Canada in 2019 after accepting the role of Managing Director of A-Gas Canada where she helped establish the business on the ground. She relocated to Dallas, Texas, in 2021 when her role was extended to include all commercial responsibilities for North America. Louise returns to Australia as she begins her role as Group Commercial Director.



P1 Service Group, a growth partner that provides resources to its home service partner companies across the country, has hired **Denise Swafford**, a seasoned home services industry professional, to

Duct Leakage Testing?



VENT CAP SYSTEMS™

MAKING GREEN FASTER™



CHEAPER

\$



SAFER

✓



FASTER

🕒




www.VentCapSystems.com

TECH Clean Calif.

Continued from Page 25

complete one TECH & ESMAC Heat Pump Water Heater Education Training

3. Contractor recipients complete hands-on training with a heat pump water heater manufacturer.

a. In this training, the manufacturer will confirm that the

contractor understands sizing, use of thermostatic mixing valves (TMV) [Required], location considerations (including electrical needs), and CTA-2045 ports before placing an order with TECH.

b. The manufacturer will send a Certificate of Completion to the recipient and to TECH Clean California

4. After TECH has confirmed that you have completed these two steps you will receive a participa-

tion form to fill out, and we will order through your preferred distributor.

a. TECH will pay the cost of the water heater from the distributor/manufacturer.

5. You will be notified when units are ready for pick up.

6. Once installation is complete, we will ask for pictures of the installation and details about your installation. (Details will be provided at a later date)

Indoor People

serve as the company's vice president of coaching.

Swafford has been immersed in the residential services industry since starting her career in the call center of her father's HVAC company – a company she would come to own. After a number of years, Swafford sold the business but took on the role of regional sales manager for the buyer, where she managed 12 locations. She has



DENISE SWAFFORD

spent the last five years as an advisor, trainer, and coach for one of the industry's professional business training institutions.

"We are thrilled that Denise has become a member of the P1 family," said P1 CEO Jeff Belk. "She has an extensive and well-rounded background in growing home service companies and has coached thousands of owners and managers on improving business operations. Her contributions will be invaluable to our partner companies."

At Swafford's first home service company, she was selected to serve as a Six Sigma Black Belt and helped launch the Six Sigma methodology. This resulted in a return of \$12 million in incremental revenue on her first project. Her experience also extends to managing call centers and overseeing franchise operations.

"I look forward to developing strong relationships with each of

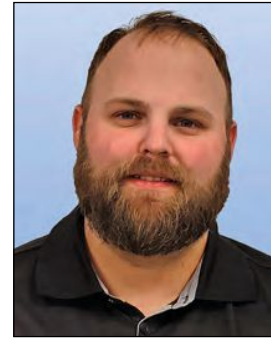
the partner companies in the P1 Service Group family," Swafford said. "I share P1's 'people first' mindset and am excited to coach key leaders at our companies on operational management. It is my goal to provide our companies with the tools they need to grow and scale their business to achieve both financial success and team satisfaction."

P1 Service Group is financially backed by River Sea Network and The Edgewater Funds.



Unico, Inc., maker of small-duct central heating and air conditioning systems, announced major new hires to its contractor support teams with **Matt Gordon** assuming the duties as the manufacturer's national trainer and **David Snyder** named as a technical support specialist.

Gordon will spearhead the manufacturer's efforts in revitalizing its training programs for distributors and installing contractors of The Unico System. A graduate of Southern Illinois University at Edwardsville, Gordon holds a bachelor's degree in marketing. He received his professional training through the U.S. Army, becoming an expert in industrial HVAC and power generation systems, carrying and expanding that knowledge to



MATT GORDON



DAVID SNYDER

training positions with large mid-western HVAC contracting firms.

Snyder will bring his extensive and intimate knowledge of The Unico System to bear in his role as technical support specialist. Snyder began installing Unico products for a Washington D.C. HVAC contractor firm in 1987 – just two years after the manufacturer was incorporated – and, we note, when he was a very young man. He has worked on both the service and sales side for a well-regarded installing firm and has been involved with multiple Unico System installations in historic and noteworthy homes and commercial structures around the capital region.

Advertiser Index

ADVERTISER.....	ICN PAGE
Baker Distributing Company	22
Cannabis Mechanical.....	18
Delta Capital	8
Ferguson HVAC - Day & Night	2
Ferguson HVAC - TRANE	3
Howard Industries	32
Inaba Denko	21
Mitsubishi Electric	16, 17
NATE	10
Olimpia Splendid.....	11
Pacific Gas & Electric (PG&E)	15
Pacific Systems Group	14
Panasonic Life Solutions	27
Parker Hannifin	25
Pro1 iaq.....	12
Pro Source / Pro Lift.....	24
R.E. Michel Company.....	6
San Diego Gas & Electric (SDG&E).....	19
Sierra Chevrolet	23
SoCal Edison.....	5
SoCal Gas.....	7
USACD.....	9
USACD Venstar	13
Vent Cap Systems	30

GOLD KEY Contest Winner

The winner of last month's ICN Gold Key contest is:



Patrick Chaffin
Chaffin Air Conditioning & Heating

Chaffin is the winner of a \$50 Amazon gift card, courtesy of ICN. Congrats!

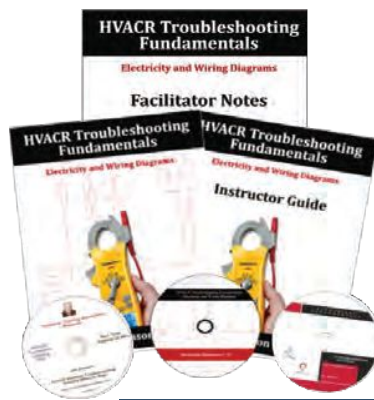
ADVANCE YOUR TECHNICIAN'S ELECTRICAL SKILLS WITH THIS TRAINING BUNDLE!

Check out our HVACR Troubleshooting Fundamentals: Electricity & Wiring Diagrams Training Package

for HVACR Educators, Service Managers and Lead Technicians

This training package includes:

- One (1) Student Textbook
- One (1) Instructor Guide, print copy with answers to student workbook pages
- One (1) Instructor Guide PowerPoint with answers to student workbook pages and End-of-Course Exam
- One (1) PowerPoint: *HVACR Troubleshooting Fundamentals: 15 Electrical Troubleshooting Scenarios*
- One (1) DVD/Video: *Electrical Fundamentals for HVACR Technicians* (Run Time: 120 Minutes)
- One (1) DVD/Video: *Proper Use of Test Instruments* (Run Time: 60 Minutes)
- One (1) bonus Facilitator's Guide that will provide any instructor or trainer a detailed breakdown on utilizing all the resources in this package in a training program.



A \$270 value for
\$215.00
(Includes Shipping & Handling)

Purchasing this combined resource package saves you 20%!

Order today at <https://techtrainassoc.com> or call 520-625-6847



Technical Training Associates
Skill Development Through Specialized Training



IHACI
The Institute of Heating and Air Conditioning Industries publishes **INDOOR COMFORT NEWS**

IHACI OFFICERS

Dean Gilford, President
Kilowatt Heating, A/C & Electric

Steve Adams, Vice President
Ferguson HVAC

Bob Wiseman, Secretary/Treasurer
Canoga Park Heating & Air Conditioning

Mark Ramirez, Past-President
Comfort Climate Control

BOARD OF DIRECTORS

Mitch Bailey
Bailey's Heating & Air, Inc.

Jim Batts
Lifetime Board Member

Harvey Bringas
Southern California Gas Company

Lawrence Castillo
Brody-Pennell Heating & Air Conditioning

Steve Clinton
Southern California Edison

Tyler Keene
LADWP

Lyman Lockwood
George Haney & Son, Inc.

Jeb Ball
Fieldpiece Instruments

Eugene Silberstein
ESCO Group

Penny Yonan-Padgett
US Air Conditioning Distributors

IHACI

Carlos Ruiz
Executive Director

Mary Ann Garcia
Program Assistant

Bonnie Moreno
Kaye Weiss
Program Coordinators

Jackie Ortega
Office Assistant

Summer Aguilar
Membership and Events Coordinator

Debbie Thompson
Accountant

INDOOR COMFORT NEWS

Gilbert Rivera
Editor

Karina Ball
Sales Account Executive

Ted Rieger
Northern California Correspondent

Jim Johnson
Contributing Editor

Rick Torres / Calavera Graphics
Pre-Press Consultant

INDOOR COMFORT NEWS is not responsible for unsolicited materials. Although every precaution is taken to ensure the accuracy of statements, IHACI assumes no responsibility.

Postmaster: Send address changes to
INDOOR COMFORT NEWS
454 W. Broadway, Glendale, CA 91204
Phone (818) 551-1555

Cool and Heat Any Room. Any Home. Anywhere.



American Standard[®]
HEATING & AIR CONDITIONING



HOWARD
INDUSTRIES
WHOLESALE DISTRIBUTORS / PARTS • SUPPLIES • EQUIPMENT
HEATING • AIR CONDITIONING • REFRIGERATION • SHEET METAL

In the ceiling, on the wall, ductwork or no ductwork. We provide comfort and filtration to every room, with maximum energy efficiency.

In stock at all 6 locations today!

Anaheim
600 E Cerritos Ave,
Anaheim, CA 92805
(714) 991-4441

Culver City
8855 Washington Blvd.
Culver City, CA 90232
(310) 837-9100

Downtown LA
1514 Maple Ave.
Los Angeles, CA 90015
(213) 747-5121

Escondido
960 S Andreasen Drive #C
Escondido, CA 92029
(760) 743-7300

Riverside
2000 Spruce St #2649
Riverside, CA 92507
(951) 784-8800

Van Nuys
7500 Van Nuys Blvd,
Van Nuys, CA 91405
(818) 782-3600