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JANUARY 2024

VOL. 39 • NO. 1





Title Sponsor

Early Registration Until 1/12/2024



February 10, 2024

OK Corral 9449 NE 48th Street Okeechobee, FL 34972



SCHEDULE

Registration & Breakfast Sandwich-8:00 am Tournament Warm-Up - 8:45-9:45am 9:45 Safety Meeting Shotgun Start - 10:00 am BBQ Lunch, Raffles and Awards Celebration - 12:30 pm

This is a family friendly event for all skill levels. Please feel free to bring your own gun or rent a range gun at \$45.



PLAYER OPTIONS

- Single Player Early Bird \$200 | Regular \$225 Includes 10 rounds of ammo and 10 targets for warm up, tournament fees, golf cart, teamammo, ticket for Breakfast sandwich and lunch buffet at awards celebration
- Foursome Early Bird \$800 | Regular \$900 Includes 10 rounds of ammo and 10 targets for warm up, tournament fees, golf cart, teamammo, four tickets for breakfast sandwich and lunch buffet at awards celebration.



• Foursome/Station Sponsor Early Bird \$900 | Regular \$1,000 Includes 10 rounds of ammo and 10 targets for warm up, tournament fees, golf cart, team ammo, four tickets for breakfastsanwich and lunch buffet at awards celebration Sign with logo at Station.

SPONSORSHIPS

All sponsor will recieve signage at the tournament in addition to recognition on the PBACCA website and event promotions.

Title Sponsor -

Gun Sponsor (multiple)

Station Sponsor (multiple) - \$200

Breakfast Sponsor (2)-\$1000

Lunch Sponsor (2) - \$1500 Yeti Sponsor (multiple) - \$525 Cart Sponsor (2) - \$350

Another way PBACCA Serves You!

PBACCA Presents

General Meeting - Guest Speaker David Anderson of Carrier

The Beach Club 1 7th Ave. North Lake Worth Beach Thursday, February 1, 2024

Call Pam at **561-585-3880**

FEB 1, 24



--PBACCA 2024 OFFICERS--

President: Kelly McCann **CMI Air Conditioning & Electric** (561) 844-1004 · Cell (561) 644-5668 kelly@cmiac.com

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Vice President: Sean Caplan **EDSAir Conditioning & Plumbing** (561) 586-7090 • Cell (561) 601-6931 SCaplan@edsairconditioning.com

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Director: John Riley Al Packer Ford-Lincoln (561) 689-6550 x206 · Cell (561) 818-5424 iriley@alpackerford.com

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morgan@cmiac.com

Director: Rob Mayhew Tropic Supply (561) 684-3997 • Cell (561) 703-8354 Rob.Mayhew@tropicsupply.com

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> **Director: Chris Portalatin** Deacon 7 Cell (561) 635-9096 cportalatin@decon7.com

Past President: Robin Worrell State Energy Heating & Air (561) 688-6264 · Cell (561) 795-1130 stateenergy@aol.com

Executive Director: PAM RIPPLE (561) 585-3880 · Fax (561) 585-3347 e-mail: pripple@pbacca.org

FINANCIAL ADVISOR: Donna M. Sotillo, CPA **Sotillo & Company** • (561) 547-5730



Kelly McCann

Happy New Year!!! I wish you all a healthy and prosperous new year. I would like to take this opportunity to thank our sponsors and members for their continued support. I am honored to have the opportunity to serve as our association's President and want to express a special "Thank You" to our outgoing President, Robin Worrell - a job well done.

2024 promises to bring changes to our industry. On January 1st, 2024 Florida adopted building Code R501.7.2 which can be found in the 2023 Building Code 8th Edition.

This regulation prohibits using electric resistance heat as the primary heat source. This rule affects Climate Zone 2 (Martin County and north). The code does allow straight cool with electric heat for new construction projects if the performance method of compliance (405) is used. We are expecting to get clarification as more information becomes available. Additionally, in less than a year our industry will be transitioning to a new A2L refrigerant for many, but not all, new products. This new refrigerant is classified as "slightly flammable," and we will need to adapt. PBACCA is working to keep you informed of the status of these issues so you can be ready. Stay tuned as we will host a guest speaker for our February General Meeting to discuss the A2L changes. Please consider joining us at the Beach Club in Lake Worth (https://beachclublakeworth.com/), the dates will be announced a few pages within. It should be a fun and informative evening.

Also, in February we will be hosting our 2nd Annual Sporting Clay Event at the OK Corral in Okeechobee. Last year's inaugural tournament was literally a "blast!" This year should be even better. If you haven't registered yet, please see the registration and sponsorship information inside this edition.

As an association we are also changing. Our long time Executive Director Pam Ripple has announced her retirement after 18 years. She served our association very well and I am honored to have worked with her. What a dynamo! She will be missed. We are actively looking for a new executive director. Additionally, we will be modifying our scope; although, we will continue to serve you as directed in our mission statement. We need your help and participation in this new effort. Let's make it a great 2024!

Regards Kelly McCann

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Palm Beach Air Conditioning Contractors Association (PBACCA) is an independent association serving the needs of the HVACR industry in Palm Beach County. PBACCA is not affiliated with the national group Air Conditioning Contractors of America (ACCA). The mission of PBACCA is to assist and better enable PBACCA members to acquire, serve, and satisfy their customers.



PLEASE WELCOME 2024 SLATE OF OFFICERS AND DIRECTORS

President: Kelly McCann of CMI Air Conditioning & Electric

President Elect: Steven Castillo of Robert R McGill Air Conditioning

Vice President: Sean Caplan of EDS Air Conditioning & Plumbing

Secretary/Treasurer: Robin Worrell of State Energy Heating & Air

Directors

John Riley of Al Packer Ford-Lincoln
Arturo A. Alba, Jr. of ARCO Supply
Tom O'Connor of Johnstone Supply/ The Ware Group
Rob Mayhew of Tropic Supply
Morgan Brantley of CMI Air Conditioning & Electric
Chris Portalatin of Decon 7

Past President: Robin Worrell of State Energy Heating & Air



Get involved with your association!!!

Nominate yourself or a co-worker to serve as
an Officer or Director for PBACCA. The mission of PBACCA is to assist and

PBACCA General Meeting

February 1, 2024

"The Beach Club" in Lake Worth Beach.

Program Speaker : David Anderson of Carrier

A2L Changes



PBACCA February General Meeting Presents: David Anderson, a discussion on A2L Refrigerant

Please join us in welcoming David Anderson with Carrier Enterprise for a discussion on the upcoming A2L refrigerant change. Although the change is mandatory on January 1st, 2025, many manufacturers will be making the new product available starting in a few months. David Anderson is the Residential Systems Product Manager for Carrier Enterprise Florida. He began his career after graduating from the University of Florida's College of Mechanical Engineering in 1994. He has worked for Carrier and Carrier Enterprise having held several positions in the commercial and residential segments of the market including leadership positions. David will be speaking to us about what makes the new A2L refrigerant different and how we can prepare ourselves for the change.

Your PBACCA is proud to host this event and we are looking forward to seeing you there!

Reservations are required
Reservation deadline Monday January 29, 5:00pm
Thursday February 1, 2024 "The Beach Club"
One 7th Avenue North, Lake Worth, Fl. 33460
5:30 p.m. Check-in 6:30 p.m. meeting start's
No cost for meeting

Everyone will be ordering from the menu and paying for themselves RSVP to Pam at pripple@pbacca.org

Thank You to Our Meeting Sponsor

Dan Lusk, Sales Manager of Heresite Protective Coatings, LLC



Contact Pam for more information:pripple@pbacca.org or 561-585-3880



South Florida HVAC Contractors Questioning Heat Pump Mandate

Recently, a great deal has been made of the 8th Edition (2023) Energy Conservation Code, which comes into effect in just a few days, on January 1. Of greatest interest to HVAC residential contractors is the following paragraph:

R501.7.2 Electric Space Heating

Electric resistance shall not be the primary space heating system type used for complete central equipment replacements in Climate Zone 2.

In and of itself, this is quite shocking. It appears all replacement systems in that Climate Zone (basically all of Florida north of Palm Beach County) will have to be heat pumps. To put it into context, however, we must remember there are exemptions to the ECC:

C101.4.2 Exempt Buildings

Buildings <u>exempt from the provisions</u> of the Florida Building Code, Energy Conservation, include <u>existing buildings except those considered renovated buildings, changes of occupancy type or previously unconditioned buildings</u> to which comfort conditioning is added. Exempt buildings include those specified in Sections C101.4.2.1 through C101.4.2.4. <u>(emphasis mine)</u>

In a conversation with a Building Official at Martin County, he confirmed replacement systems to be exempt. This determination is based on the exemptions in section 101 of the ECC, above.

This is a big question that may take some time to sort out, and <u>interpretation may vary among</u> municipalities.

If you have questions or further insights, please respond to this email and we will do our best to keep this conversation up to date.

You can rely on PBACCA to bring you the latest and most authoritative information on HVAC industry issues in South Florida. Learn how to partner with other South Florida contractors to build your business and strengthen our industry.

Links:

C101.4.2 Exempt Buildings

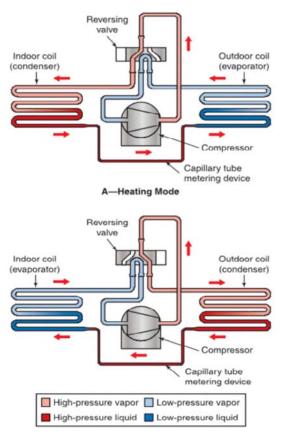
R501.7.2 Electric Space Heating

TECHNICIAN'S CORNER

Heat Pumps

By Kelly McCann

Our industry is expected to make the change from cooling units to heat pump units soon. As this electrification trend continues, some of us in the southern region of Florida may not be as familiar with heat pump operations as our northern counterparts. January 1st, 2024 Florida adopted Building Code R501.7.2 which can be found in the 2023 Building Code 8th Edition. This regulation prohibits using electric resistance heat as the primary heat source, in other words no straight cool systems with heat strips can be installed. Supplemental heat strips are still allowed in heat pump installations in Climate Zone 2 (Martin County and north). I'd like to take a few minutes to discuss the basics of a heat pump system.



A heat pump system operates in cooling just as the "strait" cool system does. Same components are in play. However, in heat mode we add a few more components. Heat pumps come in different types: air source, water source and geothermal. Heat pumps can be configured in all types of equipment from mini splits to residential and commercial split systems and packaged units.

A heat pump is a mechanical refrigeration system that reverses the direction of refrigerant flow to add or remove heat from a conditioned space. A switch over valve (SOV), sometimes called a reversing valve, controls the direction of refrigerant flow through the refrigerant circuit. The direction of refrigerant flow determines whether the heat pump heats or cools a conditioned space. When the refrigerant flow is reversed, the evaporator begins functioning as a condenser. The condenser then functions as an evaporator. These coils still rely on heat transfer methods, releasing heat to cooler environments (heat travels from hot to cold).

When the heat pumps switch into a different mode the reversing valves shift to change the direction of flow (see diagram). A heat pump is operating in the heating mode, the

outdoor coil functions as an evaporator by absorbing heat. The indoor coil functions as a condenser by rejecting heat. The low-pressure refrigerant vapor is drawn into the compressor, compressed to a high temperature and pressure, and then pumped to the indoor coil. Since the refrigerant vapor's temperature is higher than the indoor air temperature, it releases heat indoors and condenses. The refrigerant lines also switch duties, in cooling mode the liquid line carries high pressure, high temp liquid to the metering device. The suction line, *aka* the vapor line, carries low pressure, low temperature vapor back to the compressor. In heating, the suction line becomes the hot gas line from the compressor. If we think of it like this; the vapor line always moves vapor, high pressure or low pressure. The liquid line remains the liquid line only the direction changes. On most heat pump systems, at the service valve location you can find a "true" suction service port, this can be useful in troubleshooting.

Due to these changes in function, we should be careful when selecting equipment. We should always be concerned with AHRI matched systems; although, with heat pump we need to make sure the indoor coil has

enough capacity to become the condenser in the heat mode. Refrigerant lines should be sized properly IAW manufacturer's tables. Driers need to be "bi-flow" type to allow for multi directional flow.

Thermostats must be capable of heat pump operation. We also want to make sure to have enough low voltage conductors from the air handler to the thermostat, and to the outdoor unit. This is dependent on the equipment you are installing but be prepared for a minimum of 16/8 for 24-volt systems. "Communicating" system low voltage requirements will vary by the manufacturer.

The additional items installed in a heat pump system are the SOV, accumulator, outdoor TXV, check valves around both TXV's and a defrost control board. Since the heat pump can operate in cooler temperatures such as 30 - 40°F there must be a method to defrost the outdoor coil in the heating mode. Let's consider the scenario: It's a cool January day, it's 33°F outside and the occupants have the heat on, the outdoor coil is the



evaporator absorbing heat and the indoor coil is the condenser rejecting heat. The outdoor coil will begin to develop ice. The defrost control board is the component to address the coil ice. It can be either be "demand" or "timed". If it's a demand control the coil temperature sensor will trigger the defrost based on the programming of the board. If it's a timed defrost it will go into defrost at a set time interval. During defrost the SOV switches back to the cooling mode so the outdoor coil will become hot and melt the ice, the outdoor fan will also be controlled or shut down for this sequence. For this reason, it is important to

also install electric heat in heat pump systems. I have heard it said, "it's a heat pump we don't need to install the electric heat." This is incorrect, here's why: if there is no auxiliary or emergency heat when the system goes into defrost the conditioned space is in the cooling mode. Sending cold air into the space we are trying to heat may not be welcomed as the occupants are calling for heat. The electric heat strip during defrost serves to temper the cold discharge air. Additionally, I've seen where the SOV and the electric heat were wired in parallel. That's slightly counterintuitive to bring on both heat sources simultaneously. There is a low voltage connection to control the electric heat from the outdoor unit (defrost control board). Its function is to bring on the electric heater during defrost or when auxiliary heat is required. A fun thing to note, for those of us who don't get to see it often, when a heat pump goes into defrost the melting ice looks like smoke or steam as it's melting (depending on the ambient conditions); causing the uninitiated to think the unit is on fire or something.

Stay tuned for an upcoming article on troubleshooting heat pump systems. Let's stay safe this year. I wish you all a Happy and Prosperous New Year!

February 10, 2024, Ok Corral Gun Club



9449 NE 48th St Okeechobee, FL 34972



SCHEDULE

Registration & Breakfast sandwich - 8:00 am Tournament Warm-Up - 8:30-9:30am Safety Meeting 9:45 Shotgun Start - 10:00 am BBQ Lunch, Raffles and Awards Celebration -12:30 pm

	PARTICIPANT REGISTRATION	Palm Beach Air Conditioning Contractors Association, Inc.	
Select your choice of options available. Early Bird rates good until 1/12/24	Single Player - Early Bird \$200 Regular \$225 Includes warm up, tournament fees, golf cart, team ammo, ticket for lunch buffet, awards celebration. Foursome - Early Bird \$800 Regular \$900 Includes Warm up, tournament fees, golf cart, team ammo, four tickets for lunch buffet, four raffle tickets and awards celebration.	Gun / Yeti Cooler Raffle Purchase raffle tickets ahead or during event. \$25 ea. quantity \$100 (package of 5 tickets) quantity Foursome 3	
Single or Foursome 1	Foursome/Station sponsor - Early Bird \$900 Regular \$1,000 Includes warm up, tournament fees, golf cart, team ammo, four tickets for breakfast sandwich, lunch buffet, and awards celebration. Foursome 2		
Foursome 4	Company:		
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□ Check (payable to PBA)	CCA) TOTA	AL:\$	

Title Sponsor



Send registration form to PBACCA, PO Box 3407 Lantana, FI 33465, or email to pripple@ pbacca.org.

Questions? Contact us at 561.585.3880 or via email at pripple@pbacca.org.

February 10, 2024, Ok Corral Gun Club

9449 NE 48th St Okeechobee FL 34972

Early Registration 1/12/2024



SCHEDULE

Registration& Breakfast Sandwich - 8:00 am Tournament Warm-Up - 8:30-9:30am Safety Meeting 9:45 Shotgun Start - 10:00 am BBQ Lunch, Raffles and Awards Celebration - 12:30 pm

SPONSOR REGISTRATION

All sponsors will receive signage at the tournament in addition to recognition on the PBACCA website and event promotions. Please send a high-resolution logo via email to pripple@pbacca.org.		Title Sponsor - Cub Adapter & Curbs LLC Lunch Sponsor (2) - \$1500 (includes 2 complimentary team members) Breakfast Sponsor (2) - \$1000 Gun Sponsor (multiple) - \$850 Yeti Sponsor (multiple) - \$525 Cart Sponsor (2) - \$350 Station Sponsor (multiple) - \$200
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Send registration form to PBACCA PO Box 3407 Lantana, FI 33465 email to pripple@pbacca.org.

Questions? Contact us at 561-585-3880 or via email at pripple@pbacca. org







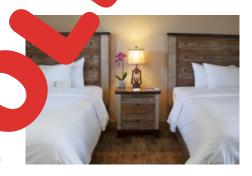


If you would like to reserve a cabin for Sport Clays Shoot Contact OK Carrol for availability (863) 357-2226 option 2

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Name:
Company:
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Cell Phone:
What can PBACCA do for you?
What meeting topics would you like?
Would you like to be added to email

Palm Beach Air Conditioning **Contractors Association, Inc.**

2024 CALENDAR of EVENTS

Jan 11	Board 2024 - Installation & Orientation Via Zoom
Feb 1	General Meeting - 5:30 pm The Beach Club One 7th Avenue North, Lake Worth, Fl. 33469 <i>Speaker</i> David Anderson of Carrier A21. Changes. <i>Meeting Sponso</i> r Dan Lusk o Heresite Protective Coatings LLC.
Feb 10	Sport Clay shoot - 8:30 am shot gun start OK Corral Gun Cub 9449 NE 48th St. Okeechobee, Fl 34972
Mar 7	Board Meeting - 4:30p.m Zoom Meeting
April 4	General Meeting - 5:30 pm The Beach Club One 7th Avenue North, Lake Worth, Fl. 33469 <i>Speaker</i> Doug Wise PBC Building Division Director. <i>Meeting Sponsor</i> Mary Killian of Acentria Insurance

Board Meeting - 4:30p.m. - Zoom Meeting



May 2

14





Another Reason to Smile

When You Fly Other Airlines

A flight attendant for a major airline watched one day as a passenger overloaded with bags tried to stuff his belongings in the overhead bin of the plane.

Finally, she informed him that he would have to check the oversized luggage. "When I fly other airlines," he said irritably, "I don't have this problem."

The flight attendant smiled, "When you fly other airlines, I don't have this problem either."





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Become Certified

PBACCA will provide a proctor upon request for onsite testing.

The E.P.A. has established a Mandatory Technician Certification Program. Technicians are required to become certified under the mandatory program. Under the final E.P.A. rule, the sale of refrigerant will be restricted to certified technicians.

For more information on EPA testing call Pam at 561-585-3880.

OUR MISSION: To assist and better enable PBACCA members to acquire, serve and satisfy their customers.

Apprenticeship Corner

Need Qualified Technicians?

The next time you have an opening for a technician, call the local Apprenticeship office at 561-262-7523. They can help you find a qualified apprentice to hire and enroll in the local PBACCA sponsored Apprenticeship Program offered at Palm Beach Community College. You'll be sure your employee is being taught the right skills and acquiring the training to become a productive journey man.

Another way PBACCA serves you!