



- President's Perspective
- 3-4 Important change in PBACCA
 - Would you like to serve?
- **6-7** Technicians Corner
- **8-9** Skeet shoot information
 - 10 Cabins Availiable
 - **14** Events Calendar

DECEMBER 2023

VOL. 38 • NO. 12



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, team ammo, 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, team ammo, four tickets for breakfast sandwich and lunch buffet at awards celebration.



• Foursome/StationSponsor 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.

Lunch Sponsor (2) - \$1500

Another way PBACCA Serves You!

Title Sponsor - WS6-Gun Sponsor (multiple) CIDI
Station Sponsor (multiple) - \$200
Breakfast Sponsor (2)-\$1000



PBACCA . Po box 3407 Lantana, fl 33465 . 561-585-3880 . pripple@pbacca.org . www.pbacca.org



--PBACCA 2023 OFFICERS--

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

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jriley@alpackerford.com

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(954) 780-6676 • Cell (954) 650-3429 cduemig@@fundexsolutions.com

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Past President: Tony Kiser EDS Air Conditioning & Plumbing (561) 586-7090 • Cell (561) 628-8084 akiser@EDSAirconditioning.com

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

LEGAL COUNCIL: John Hockin - Linkhorst & Hockin, P.A. (561) 626-8880

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

President's Perspective



December has arrived and this will be my last "President's Perspective". This year my focus has been on growing the membership, getting contractors involved and becoming a stronger association. This has not been an easy task.

Robin Worrell Contractors are busier than they have ever been, with the increasing time involved with complying with the never ending regulations and the unnecessary, burdensome permit and inspection requirements that some Building Depts have for a simple ac replacement. Contractors are struggling to find time to get together and address issues that affect us. This is one of our new goals of PBACCA; to make it easier to belong and be represented on important topics.

The associations that have a large membership along with a legislative presence are the ones that thrive. We need you and you need us to represent our industry, locally and statewide. We know you are busy. Join us and we will do the work. Together we can make a real positive impact on our industry.

Have a Merry Christmas and a Beautiful Holiday Season.

Let's make 2024 the year we grow more!

Stronger Together Robin--

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Arco Supply, Lake Worth	561-586-3331
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Tropic Supply, West Palm Beach	561-684-3997

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.



Hello existing and perspective PBACCA members. We would like to announce some very important changes to our organization.

Our Association's Director of 18 years, Pam Ripple, has announced her retirement. Please join us in thanking Pam for all she has done for us, our industry, and genuinely wishing her well as she starts the next chapter of life. We have started the search for Pam's replacement and are currently accepting resumes from qualified applicants.

The past few years have been a true shift for all of us in how we conduct our business and PBACCA recognized we also must evolve. The once popular Air Show that brought us all together for new products and to socialize is an outdated model. Much of the communication these days is digital and most of the relevant industry information is delivered to us daily on our phones. Events like the Airshow were also the Association's primary source of revenue, so we are working on a fundamental change to keep up with the times.

Here are some specific changes we are focusing on:

- A revival of focus on the promotion of HVAC as a lifelong career to the next generation. We proudly support the Florida Air Conditioning Apprenticeship, Royal Palm Beach High School HVAC program, and the Maury Jacobson Scholarship Fund providing up to 4 scholarships annually.
 We are planning to expand on these pillars of the Association.
- Addressing issues affecting Local HVAC Contractors in our area. We
 understand you are busy working on your business, we want to assure you
 we will continue to work in our industry while you work on your business.
- Continued push to fight unlicensed activity. Did you know PBACCA members can report unlicensed activity anonymously by simply contacting PBACCA?
 Unlicensed companies have an unfair pricing advantage skipping proper

- insurance coverage, training, and give our trade a bad name with inferior workmanship.
- We have announced the cancellation of Casino Night. Our goal is to optimize events, meetings, and ensure any time spent away from your family and your business is valuable.
- In 2024, PBACCA plans to include specific fund raising to some events supporting these core pillars listed above. Tentative plans include:
 - Sporting Clay Shoot Saturday February 10th
 - Saltwater Fishing Tournament Held in June with fund raising specifically for our scholarship fund.
 - Golf Tournament Held in November with fund raising specifically for Royal Palm Beach High School HVAC Program.

We are looking to strike the appropriate balance to best serve our industry and focus attention on these core missions. Here is what we are asking from you:

- Join as an annual Contractor Membership for \$300, or Associate (Vendor)
 Membership for \$350. Dues have remained unchanged, and this is one of
 our primary revenue sources. To succeed, we need to grow our
 membership base to replace events that were productive in years past.
- Communicate what you want and need from PBACCA. Our goal is to
 address the largest needs of our Association first, and we need your input
 on the challenges we can address. Examples could be anything like 1) push
 to expand the decal program to other municipalities 2) push to expand high
 school programs outside of Royal Palm Beach 3) push legislatively on a
 specific challenge we are facing. In 2024 we will be considering all options
 including joining FACCA and hiring a Lobbyist on our behalf.
- Consider serving even in a limited capacity. Even if it's just making a single phone call, suggestion, or attending an event. The day-to-day lifting is done by the Director, the Board, then the Membership. We appreciate anything from 10 minutes of your help, to serving on the Board if you can give it.
- Encourage a friend to join. Even if someone wants to sit back and watch, annual membership is very much appreciated. We passionately believe a unified voice for HVAC contractors is necessary, and your membership makes that a reality.

WOULD YOU LIKE TO SERVE?

Would you like to be part of the working body of YOUR association?

The 2024 Nomination process will begin at the October General Membership Meeting by putting together a slate of officers and directors for the 2024 year. Elections/Installation will take place at the January Membership Meeting.

The board meets the first Thursday of every other month throughout the year. The board meetings are where the "business work" of the association is done. As the bylaws require, a commitment to attend a minimum of 5 regular board meetings during the term of office.

If you would like to be considered for the 2024 slate call the association's office (561-585-3880) or complete the 2024 Nomination Form and email to Pam at pripple@pbacca.org

2024 Nomination Form **OFFICERS NOMINEE** OTHER CANDIDATES President Kelly McCann (CMI Air Conditioning & Elec.) President-Elect Steven Castillo (Robert R. McGill) Vice President Sean Caplan (EDS Air Conditioning & Plumbing) Secretary/ Treasurer **OPEN** John Riley (Al Packer Lincoln Ford) Arturo A. Alba (Arco Supply) Rob Mayhew (Tropic Supply) Tom O'Connor (Johnstone Supply/The Ware Group) Morgan Brantley (CMI Air Conditioning & Elec) Chris Portalatin (Decon 7)

Past President: Robin Worrell (State Energy)

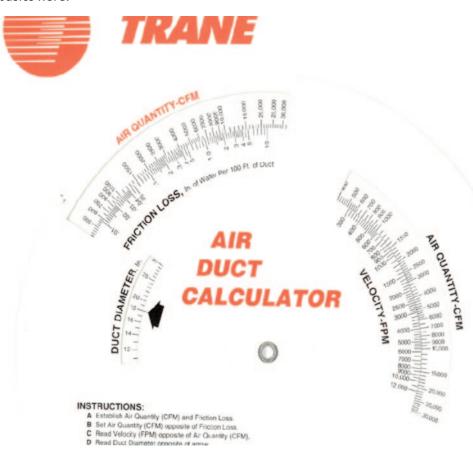
Get involved with your association!!! Nominate yourself or a co-worker to serve as an Officer or Director for PBACCA. The mission of PBACCA is to assist and better enable its members to acquire, serve and satisfy their customers. In order to best accomplish this we need the support and involvement of people like you.

TECHNICIAN'S CORNER

AIRFLOW DIAGNOSTICS

By Kelly McCann

Airflow is a critical component to air conditioning and designing duct systems is both an art and a science. Understanding some design aspects can help to diagnose airflow issues to quickly resolve service issues. We cover these topics in the 3rd year of our apprenticeship program; however, I'd like to discuss some of the basics here.



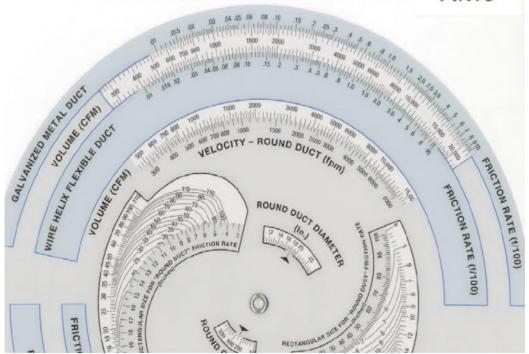
In a previous article (March 2022) we talked about measuring airflow methods. Here I'd like to bring up a point that some may find controversial. To the left we have an image of the traditional type of Air Duct Calculator. This slide rule was used, and may still be used, to size flex ducts. However, this calculator is not designed for flex ducts. The "duct diameter" round size listed is for metal. So, what's the difference? Round metal is smooth and has less resistance (friction) on the air moving through. Flex duct has a mylar liner with a wire helix coil which offers higher resistance (friction) than the

smooth metal duct. The ACCA Duct Calculator shown on the next page has different duct materials (referencing their associated resistance) and is much more accurate for the type of duct material you are designing. Due to many designers using the wrong calculator for flex duct we could run into undersized ductwork. We often see a 5-ton split system (nominal 2,000 CFM) with a single 18" flex duct for the return, which is approximately 1300 – 1400 CFM (dependent on the friction rate). Now to compound this issue further, we moved to new higher efficiency systems with evaporator coils that have more "fins per inch." We will see performance issues. That is, unless we address the duct system.

The steps to properly design a duct system include a load calculation to determine how many BTUH the space requires. Select the system which meets the load calculation. Convert the BTUH and the system's airflow capability into cfm. Find the correct friction rate based on the application. Design a duct system that delivers the required amount of BTUH/CFM — supply and return. Many think this is only done during new construction projects; although, this can be done on retrofits when necessary. So how does all this information play into airflow diagnostics? We must understand the design aspects to recognize and diagnose improper airflow. Poor airflow can lead to scenarios such as multiple failed evaporator motors, low cooling, multiple compressor failures to name a few. High static pressure can lead to motor failures, since the electronically commutated

TECHNICIAN'S CORNER.. Continued

DUCT SIZING CALCULATIONS KMC



motors (ECM) are programmed to meet a specific CFM, they tend to fail in high static situations. If we do not address the static pressure issue, the replacement motor(s) will fail. This is different than PSC type motors which tend to "slip" under higher pressure. Higher static pressure additionally will lower the amount of air getting to the desired space. If the airflow is low, we cannot get the refrigerant charge correct. This can lead

to low capacity and low cooling. As our last example, I mentioned compressor failures. A poor duct system results in low airflow which causes lower coil temperatures (the refrigerant not getting enough heat to cause evaporation), sending liquid refrigerant back to the compressor. Compressors are designed for vapor not liquid so liquid refrigerant causes compressor damage and failure.

When working in an existing home, the toughest question might be how much airflow does "this" room need? If we have access to design load calculation or plans, we can identify the room and locate the reference with the CFM identified. What happens if we do not have access to this information, how do we solve for "X." I can say from experience there are a few options to get us in the right direction. The textbook answer is, if the load calculation or plans are not available, we would do our own load calcs. This can be time-consuming on a service call and not really a good option. The first step is to identify the concern. Is it a load issue, i.e., sliding glass door with a west exposure – it's warm in the afternoon. Perhaps there is an option to "treat" the window with blinds, curtains, or solar film. Or is it an airflow issue that can be addressed by checking for ducts that have become disconnected or crushed. More than once I've diagnosed a warm room and found the duct completely unattached. However, if it's an issue that can be solved by adjusting the airflow and we want to know what CFM should be there. We can run a simple formula to determine CFM by using the air changes per hour (AC/HR). There are published AC/HR rates. Let's say our example problem is a bedroom, we can look up in several resources what the expected AC/HR for a bedroom is. It is approximately 6 AC/HR. We can measure the room's volume by the AC/HR. Divide that result by 60 (minutes in an hour). In example we have a 15' x 18' bedroom that has 12' ceiling our room volume is 3,240 cubic feet. Multiply that by 6 AC/HR and we have 19,400 which would divide by 60 giving us 324 CFM. Determine what the existing CFM is and move to this number. This method is not as accurate as the load calculation, but it gets us in the right neighborhood. I wish you all a happy and safe holiday season!

Required CFM = $\underline{\text{Room Volume x AC/HR}}$

60

February 10, 2024, Ok Corral Gun Club

OK CORRAL

9449 NE 48th St Okeechobee, FL 34972

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 -

SCHEDULE

12:30 pm



PARTICIPANT REGISTRATION



Select your choice of options available Early Bird rates good

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 awards

900 ent fees, golf lwich, lunch

	tickets for lunch buffet, four raffle tickets and a celebration.
Single or Foursome 1	Foursome/Station sponsor - Early Bird \$ Regular \$1,000 Includes warm up, tournam cart, team ammo, four tickets for breakfast sand buffet, and awards celebration.
	Foursome 2

Gun / Ye	eti Cooler Raffle
Purchase r	affle tickets ahead or during event.
	\$25 ea. quantity
	\$100 (package of 5 tickets)
	quantity

Foursome 4		

Company:		
Contact:		
Address:		
City:		
Phone:	Email:	

Foursome 3

PAYMENT

□ Check (payable to PBACCA)

TOTAL: \$_

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.

PBACCA. PO Box 3407 Lantana, FL 33465. 561.585.3880. pripple@pbacca.org . www.pbacca.org

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

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 - Curb Adapters & Curbs, LLC Lunch Sponsor (2) - \$1500 (includes 2 complimentary team members) Breakfast Sponsor (2) - \$1000 Gun Sponsor (multiple) - Yeti Sponsor (multiple) - \$525 Cart Sponsor (2) - \$350 Station Sponsor (multiple) - \$200
Company:	
Contact:	
Address:	
City:	St: Zip:
Phone:	Email:
PAYMENT	ΛCCΛ 3407 PO Boy Lantana El 33465 Totals \$

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







PBACCA 3407 PO Box Lantana, FL 33465. 561-585-3880. pripple@pbacca@pbacca.org . www.pbacca.org



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

PBACCA Group Rates



2 Queen Bed- Continental Breakfast \$225.00 per night + tax Price for 1 Night 4 Adults, Room Capacity 4



1 King Bed - Continental Breakfast \$225.00 + tax per night
Price for 1 Night 2 Adults, Room Capacity 2



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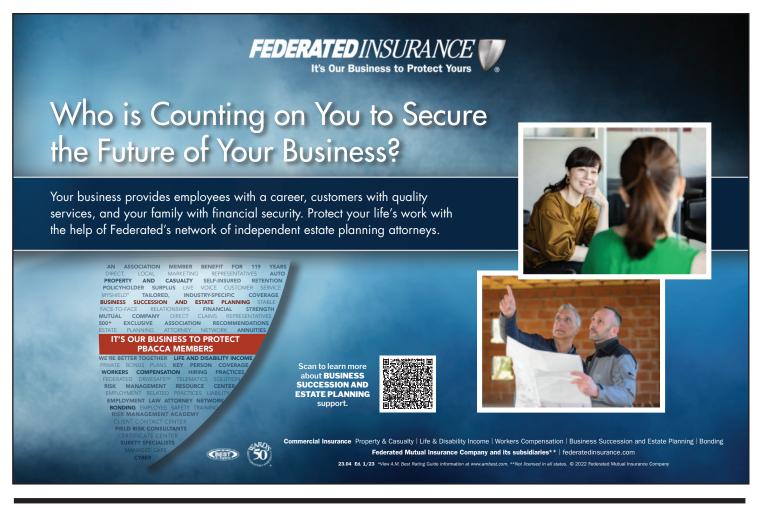
UniFirst is a proud sponsor of the PBACCA.

That's right! As a PBACCA Member, you can purchase high quality, image enhancing UniFirst uniforms and more, and receive 20% off all retail prices.

Choose from hundreds of products in our Workwear Direct Catalog that include work clothing, casual attire, outerwear, safety gear, and accessory items. So call today and mention this ad to get 20% off your entire order!

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15 DAYS OF DEALS!

Dec. 11-29, 2023









Prices are valid from December 11-29, 2023 at all 22



Tropic Supply Resource Centers. While supplies last.



DEAL 1 DEAL 2

Klein - ET10 Klein - 32305HD Magnetic Digital Pocket Ther-15-in-1 Ratcheting Impact Multi-Bit Screwdriver \$19.09* \$18.47*



DEAL 5 Klein - CL445 HVAC Clamp Meter \$74.48*

DEAL 9

CPS - BTCK

BLACKMAX Tube

\$62.82*



DEAL 6 Klein - D53010 10-Inch Plier Wrench \$39.17*



Klein - 32500HD Impact-Rated, Multi-Bit Screwdriver/Nut Driver \$18.47*



Yellow Jacket -95780 TurboRecover Recovery Machine



DEAL 11

Vacuum Gauge \$147.19*



BreakFree® Cordless Vacuum Pump, 4 CFM \$624.57*



Yellow Jacket -

93870

Klein - 66070

7-Piece Flip Impact Socket Set

\$39.19*

CPS - VG200 NAVAC-NP4DLM NAVAC-NEF6LM BreakFree® Power Flaring Tool, 3/4" Max OD, w/ Flare Gauge \$281.96*

\$299.00* ASK YOUR COUNTER SALES PROFESSIONAL FOR MORE INFORMATION.

DEAL 10 CPS - VPS6DU

Pro-Set 6 CFM Spar-

kless Ignition Proof Vacuum Pump

NOW OPEN SATURDAYS

Your local Baker Sales Centers are now open Saturdays! Check Bakerdist.com or the HVAC/R Contractor Assist App for exact hours.

Baker is proud to serve the Palm Beach Community at the following locations:

Boynton Beach 1827 Corporate Dr. (561) 806-7075

West Palm Beach 1731 Old Okeechobee Rd. (561)848-1416







Contractors Association, Inc.
Name:
Company:
Email:
Cell Phone:
What can PBACCA do for you?
What meeting topics would you like?
Would you like to be added to email

Events Calendar

Palm Beach Air Conditioning Contractors Association, Inc.

2023/2024 CALENDAR of EVENTS

Dec 14	Board Meeting - Noon - Zoom Meeting
Jan 11	General Meeting/2024 Installation - 5:30 pm The Beach Club One 7th Avenue North, Lake Worth, Fl. 33469
Feb 1	General Meeting - 5:30 pm The Beach Club One 7th Avenue North, Lake Worth, Fl. 33469
Feb 10	Skeet shooting - 8:30 am shot gun start OK Corral Gun Cub 9449 NE 48th St. Okeechobee, FI 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
May 2	Board Meeting - 4:30p.m Zoom Meeting





Another Reason to Smile





You can't predict the future. But you CAN position yourself for SUCCESS.

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CONTRACTOR SPONSORS





Palm Beach Air Conditioning Contractors Association PO Box 3407 Lantana, FL 33465 561-585-3880

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!