



the plenum

APRIL 2024

VOL. 39 • NO. 4



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Take Advantage of the
Early Registration Discount!! By May 17th.

PBACCA presents...
High-E-Fishin-Sea-XXXII
King Fish • Dolphin • Wahoo Tournament

Saturday, June 8, 2024
7:00 AM to 3:00 PM

Don't miss the boat!
Register today!



Tournament held at the
RIVIERA BEACH MARINA

**Another way
PBACCA
Serves You!**

APRIL 4, 24

PBACCA Presents
General Meeting - Guest Speaker Doug Wise of PBC Bldg. Div.
The Beach Club 1 7th Ave. North Lake Worth Beach
Thursday, April 4, 2024
Call Alexa at **561-585-3880**

APRIL 4, 24



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Sotillo & Company • (561) 547-5730

President's Perspective



Kelly McCann

Our next general meeting is scheduled for April 4th at 6:30pm. We have invited Palm Beach County's Building Official, Doug Wise as our guest speaker. He is scheduled to discuss some of the code changes expected to arrive with the new A2L refrigerant mandate. Topics include new construction projects that start in 2024 but will not be complete until after January 2025. As of the date I wrote this I received our first set of Low GWP equipment pricing. We are expecting equipment in the next month or so. Additionally, a bit of good news...the expected price increase for the new Low GWP equipment wasn't as bad as advertised. Registration for this meeting is open and we still have a few seats available, please consider joining us at the Beach Club in Lake Worth (beachclublakeworth.com). We are also working on a 14-hour continuing education class for those of us who need continuing ed credits for the 2024 renewal; details are forthcoming.

I wanted to take this opportunity to remind each of us to stay safe out there. We find ourselves in potentially hazardous situations every day; from driving in South Florida traffic, to job sites of all types, to entering a stranger's home, we need to exercise caution and good judgement to remain safe.

Regards
Kelly McCann

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Economic Electric Motors, West Palm Beach	.561-683-6262
Ferguson HVAC, West Palm Beach	.561-446-9915
Gemair Distributors, West Palm Beach	.561-842-6311
Goodman Distribution SE, Inc., West Palm Beach	.561-616-9466
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Trane Company, West Palm Beach	.561-683-3306
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.

PBACCA General Meeting

April 4, 2024

“The Beach Club” in Lake Worth Beach.

Program Speaker : Doug Wise PBC Building Division Director/ Building Official
Code Changes Applicable to the A2L Changes



PBACCA April General Meeting Presents: Doug Wise, a discussion on new codes for A2L Refrigerant

Please join us in welcoming Doug from PBC Building Department for a discussion on the upcoming A2L refrigerant change.

Doug Wise, CBO, CFM, MCP - Is the Building Official of Palm Beach County and a Past President and Honorary Life Member of the Building Officials Association of Florida. He is a past Chair of the International Code Council (ICC) Sustainability Membership Council Governing Committee, and currently serves on the ICC Codes and Standards Council and Building Membership Council Governing Committee. In 2011, Mr. Wise was recognized by AGC Florida East Coast Chapter for improving coordination between the public and private sectors. He also received the Bob Graham Architectural Awareness Award from AIA Palm Beach in 2013.

Although the change is mandatory on January 1st, 2025, many manufacturers will be making the new product available starting in a few months. Topics include new construction projects that start in 2024 but will not be complete until after January 2025. code in this application; air handlers installed during the rough phase, but the condensers are not installed until the final phase – the potential mis- match. Your PBACCA is proud to host this event and we are looking forward to seeing you there!

Reservations are required.

Reservation deadline Monday April 1, 5:00pm

Thursday April 4, 2024 “The Beach Club”

One 7th Avenue North, Lake Worth, Fl. 33460

5:30-6:30 p.m. Check-in. The meeting starts at 6:30 p.m.

No cost for meeting: Food/Drink orders from the menu, pay for food/drink.

RSVP to alexa@pbacca.org

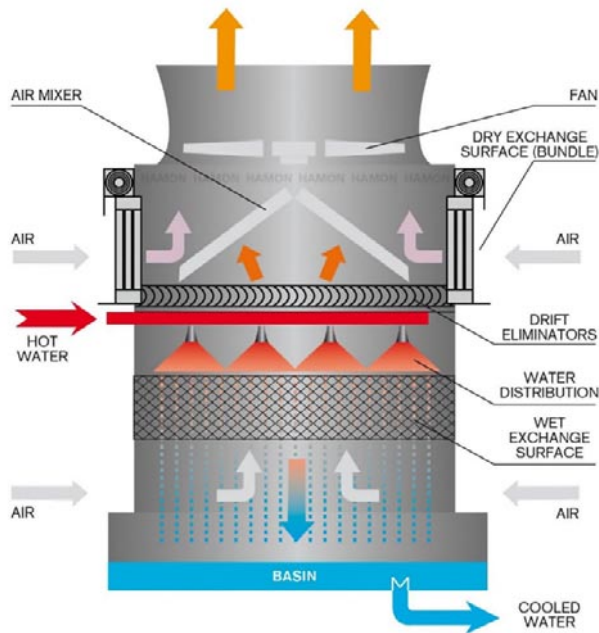
Thank You to Our Meeting Sponsor

Mary Kilian & Todd Lawrence: Employee Benefits Account Executives at 
Contact Alexa for more information: alexa@pbacca.org or 561-585-3880

TECHNICIAN'S CORNER

Water Source Heat Pumps

By Kelly McCann



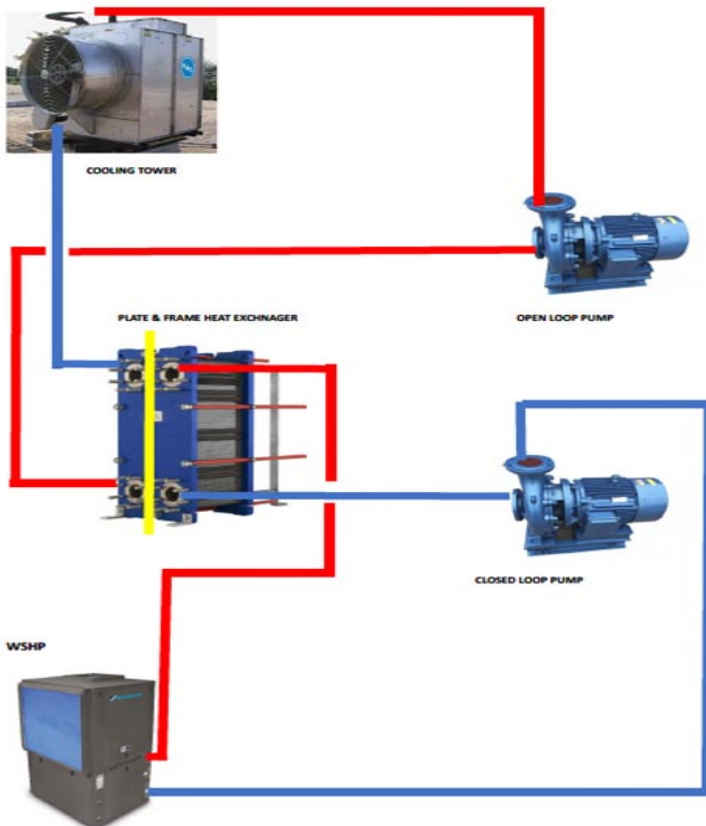
Earlier this year we discussed heat pump systems. In this month's article we will talk about Water Source Heat Pumps and the role water plays in these systems.

As mentioned in previous articles, heat pumps operate like straight cooling systems; however, they can reverse cycle to allow the condenser and evaporators to switch functions, allowing the indoor coil to discharge heat in the heating mode. The way water source heat pump differs from the air cooled is that the condenser coil uses water to remove the heat. Water is about 15 times better at removing heat from metal surface than air. This is accomplished by using a specific type of condensing coil. This condenser is a loop in a loop coil allowing counterflow in two separate tubes.

The inner tube moves refrigerant in one direction while the outer tube moves water in the opposite direction. This is where the heat is transferred from the refrigerant to the water. The water then travels back to a heat exchanger to transfer heat to the cooling tower. Water source heat pumps can be either split systems or packaged units. Heat removal is typically water processed through a cooling tower; although, in some instances this water can come from canals, lakes or a well. Cooling towers can range in size from small residential to large industrial. Cooling towers are used for other applications besides HVAC as well since water is a very good medium. Additionally cooling towers are combined with chilled water systems. In this article we are introducing the basic cooling tower and heat pump model. The "usual" set up is a cooling tower is connected to a plate heat exchanger via electrical pump(s). This is known as the open loop; since the tower itself is open to the atmosphere where water can and will evaporate. For this reason, the tower will have an automatic fill to keep the basin at a good working level of water; additionally, since only "water" evaporates, everything else in the water remains behind as scale or sediment. Both are maintenance items: keep the fill valve operating reliably and treat the water to reduce the amount of scale in the basin / fill free of debris and sediment. Warm water is cooled by the cooling tower fan and the cooled water goes back to the plate & frame heat exchanger. Meanwhile, also in the plate exchanger is another circuit. This circuit is the closed loop as its sealed from the atmosphere. This loop carries water from the exchanger to the individual heat pump coils where it picks up the heat. The water then travels back to the plate heat exchanger to have the heat removed and carried back to the cooling tower via the open loop circuit. Water is moved by pump(s) and balanced by circuit setter or manual valves located in the water lines at each heat pump. A control system is typically installed to monitor cooling tower supply and return water temperatures; condensing water supply and return water temperatures as well as water pressure. These values are used to cycle the cooling tower fan as needed, manage additional pumps as needed by temperature setpoints. It should be noted here that I've seen some "value engineered" systems that greatly reduce cost by removing some of these items. There are systems in some homes that don't have a plate heat exchanger and use the water directly from the cooling tower straight to the individual heat pumps. Remember what I mentioned earlier, the cooling tower water is

exposed to the atmosphere, which means it will carry outside air and debris with it. This has the potential of causing the heat pump condensing loops coils to become contaminated. Combine this with rust and any scale in the water and the heat pump condensing coils will lose the ability to transfer heat.

This is an important aspect of troubleshooting on these systems. Most of the WSHP system is diagnosed the same as its straight cooling counterpart; however, we should learn the water aspect to be effective. Start by measuring the “in” water line to the “out” water line temperature (condensing water supply and condensing water return), there should be around a 10°F separation. Depending on the type of system you’re working with this number can vary. If your temperatures are “off,” look at two things, the coil itself may be corrupted with scale or rust affecting the heat transfer, these coils can be cleaned or replaced as determined by the diagnosing technician. Another consideration, the cooling tower is not removing the heat from the water. This second aspect could be either the plate heat exchanger or the cooling tower is not transferring heat. Digging deeper into this, we would check the pumps to ensure they are moving water and look for air in the system causing a “vapor lock” or air bubble keeping water from moving through the system. Many cooling tower water systems will have air bleeds installed near the highest points in the water line to purge air from the system. We can consider some of these when diagnosing a cooling tower and plate heat exchanger. At the cooling tower we are generally looking for $\approx 15^\circ\text{F}$ between in and out water (this number will vary). Inside the tower we want to be careful, especially if the water is not clean or treated, wear proper PPE. Check the water nozzles for good water flow, the fan belt and motor for proper airflow, check the fill for contaminants and the water basin for debris preventing good water flow out of the tower. Plate heat exchangers should be cleaned on a regular basis, when they have contaminants build up inside the heat transfer is affected. I’ve seen some plate exchangers out there that have never been opened or cleaned. A word of caution, don’t attempt to open a plate heat exchanger without training. It’s not difficult but you will want to put them back together correctly to prevent performance issues or leaks.



I believe it’s important to note, this is a broad explanation for this type of system. There are more components and controls to discuss as well as water treatment systems that should be added to both the open and closed loop water lines. We will also see VFD’s added for the pumps and tower motors; in some instances, a noise filter for VFD’s in those areas with questionable power supply. We can break these down into individual explanations and diagnostic procedures in another article. The idea for this article is to introduce this information to those who are unfamiliar with water source systems.

When working with cooling towers, especially those where the water is not treated, wearing a respirator and proper PPE is recommended.

PBACCA presents ... High-E-Fish-Sea XXXII

Palm Beach Air Conditioning Contractors Association will hold its 32nd Annual fishing expedition Saturday, June 8, 2024. The Tournament will be open to all anglers.

Cash prizes will be awarded for the three largest fish in any or all of the categories: Dolphin, Kingfish or Wahoo, one prize per boat. More prizes will be announced the day of the "Captain's Meeting" on

Thursday, June 6th, 2024 and end with an awards ceremony on Saturday afternoon. On June 8th, 2024.

- 1. Captain's Meeting:** Thursday, June 6, 2024, 6 p.m. Location *Rafiki Tiki At the Riviera Beach Marina*
Mandatory for all Captains to attend. One person per boat please.
- 2. Boat Check-in:** June 8, 2024 all boats check in with tournament committee 7 a.m.
Call Alexa @ 561-585-3880 or 561-301-9975.
- 3. Fishing Begins:** Lines in the water at 7 a.m.
- 4. Official Weigh-In:** Weigh-in begins at 12 noon all fish are to be weighed in at *Tournament Headquarters at the Rafiki Tiki at Riviera Beach Marina , 200 East 13th Street, Riviera Beach.* Boats must be in line and recognized by Official Tournament Weigh-in Staff no later than 4:00 p.m. (If in route, radio communication does not constitute being recognized.) Absolutely no fish will be weighed in from a vessel that has not been officially recognized by Weigh-in Staff by 4:00 p.m. Fishing stops and lines are out of the water at 3:00 p.m. All fish must be weighed-in directly from the vessel. Weigh Master has right to disqualify any fish for freshness. In case of a tie - the first fish weighed in wins. All boats must adhere to the State and Federal required size and bag limit on the three tournament fish categories. A salt water-fishing license is required. Entered fish eligible for only one cash "place" prize per boat.
- 5. Fishing Stops:** Lines out of the water 3 p.m.
- 6. Scales Close:** 4 p.m.
- 7. Awards Ceremony:** *Immediately following at Rafiki Tiki at Riviera Beach Marina.*
- 8. Prizes:** First, Second and Third Largest Fish in any or all categories of Kingfish, Dolphin or Wahoo. *First Place - \$1000.00; Second place \$750.00, Third place - \$500.00, Cash Prizes limited to one per boat. There will be many other prize giveaways.*

If you have any questions, please contact Alexa Lee @561-585-3880. To register, fill out application Mail to PBACCA - "High-E-Fishin-Sea", PO Box 3407 Lantana, FL 33465.

Tournament Agenda



Tournament Rules

1. Boat and anglers must be registered with PBACCA Tournament Committee. Late entries will be taken up to 7:00 p.m. Thursday, June 6th at Captain's Meeting. No exceptions.
2. *Early registration fee is \$300.00 per boat for PBACCA members, Non-members \$350.00. Entries received after Friday, May 17th 3:30 p.m. are \$350 PBACCA members, \$400 non-members. Early registrations are eligible for the Captain's Party prize drawing.*
3. Entry Fee includes 4 anglers per boat, 4 tournament T-Shirts, and 4 dinner tickets for Saturday, June 8th. Additional anglers are (\$75 before May 17th, \$100 after.) Additional dinner tickets for June 8th tournament ceremony may be purchased in advance for \$25 and additional T-shirts may be purchased at the Captain's Meeting for \$20 (as long as supplies last.)
4. Fish may be taken by rod and reel only. Down riggers and planers are permitted. No wire lines.
5. Dead bait, live bait or artificials may be used.
6. Chartered boats are allowed.
7. In case of a tie, the first fish weighed in wins.
8. Fishing hours are 7 a.m. - 3 p.m.
9. If you have a fish on the line, beyond the lines out time you may continue to fish, but you must radio into the committee boat. Inform them of your boat number and circumstances. All boats are still required to be in line and recognized by Official Tournament Weigh-In Staff no later than 4:00 p.m. weigh in by 4:00 p.m. to be eligible for cash awards.
10. Tournament Committee will have the final decision.
11. All boats must adhere to the State and Federal required size and bag limit on the three tournament fish categories. A salt water-fishing license is required. Entered fish eligible for only one cash "place" prize per boat.
12. PBACCA has the right to cancel the tournament and return all entry fees if the 15-boat minimum has not been met by three weeks prior to the tournament date.

Make checks payable to PBACCA and mail with entry to: PO Box 3407, Lantana FL 33465

Registration Form must be filled out completely

Boat Name: _____ Boat registration# _____ Hull Color: _____
 Boat Make: _____ Boat Size: _____ Captain: _____
 Address: _____ City: _____ State: _____ Zip: _____
 Phone :(Work) _____ (Fax) _____ E-mail: _____ Company: _____

ADDITIONAL ANGLERS

First Mate's Name: _____ Phone (Work) _____ (Fax) _____ E-mail: _____
 Address: _____ City: _____ State: _____ Zip: _____
Second Mate's Name: _____ Phone (Work) _____ (Fax) _____ E-mail: _____
 Address: _____ City: _____ State: _____ Zip: _____
Third Mate's Name: _____ Phone (Work) _____ (Fax) _____ E-mail: _____
 Address: _____ City: _____ State: _____ Zip: _____

Release of Tournament from Liability

It is expressly understood that all participants in the PBACCA "High-E-Fishin-Sea" fishing tournament enter at their own risk and that the PBACCA, their officers, directors and all persons connected directly or indirectly with the operation of the tournament or sponsors of said tournament shall be exempt from any liability caused by negligence or any act or omission, for libel, slander, loss, damage, harm, injury or death suffered by any participant, sports fisherman, their companions, mates, crew members, guest, vessels and equipment which may occur during this tournament. Each Captain accepts full responsibility and liability for their angles, crew and boat.

****CAPTAIN'S SIGNATURE** _____ Registration must be signed to be valid.



Sponsor the 32nd Annual PBACCA
High-E-Fishin-Sea
Saturday, June 8, 2024

We are presently seeking sponsors on several levels. GOLD Level Sponsors are sponsors donating \$1200.00 or more. SILVER Level Sponsors are sponsors donating \$600.00 or prize items to be raffled off and BRONZE Level Sponsors are those sponsors who are donating give-away items, such as fishing items, hats, cozies etc.

GOLD LEVEL SPONSORS

T-Shirt Sponsor – Tropic Supply/Ruud	\$2500.00
Hat Sponsorship UniFirst	\$2000.00
Captains Meeting Food Sponsor -	\$1700.00
Prize Sponsor Johnstone Supply /The Ware Group	\$1700.00
Tournament Day Food Sponsor	\$1700.00
Tournament Day Food Sponsor -.....	\$1200.00
Boat slips Sponsorship	\$1200.00
Boat slips Sponsorship.....	\$1200.00

SILVER LEVEL

Grand Prize “Cash”	\$600.00
TV Sponsor -	\$600.00
Prize Donator	\$600.00
Trifecta	\$600.00
Boat slips Sponsorship Federated Insurance	\$750.00

GOLD LEVEL SPONSORS

**The Gold Level of sponsorship sign on June 6th and June 8th, to be recognized at the tournament and your organization will be recognized as a Gold Level Sponsor in our July issue of The Plenum, PBACCA's monthly publication..*

SILVER LEVEL SPONSORS

**The Silver Level of sponsorship sign on June 6th and June 8th, to be recognition at the tournament and your organization will be recognized as a Silver Level sponsor in The July issue of The Plenum.PBACCA's monthly publication*

BRONZE LEVEL SPONSORS- \$175 Prize Awards and Prize Donators

\$175 Prize Awards for: Ugliest Fish, Top Lady Angler, My Hard Luck Story and Flip Flop It Got Away
We are looking for cozies, penlights, screwdriver sets, etc. to put in Angler Goodie Bags

**The Bronze Level sponsors will be recognized on June 6th and June 8th on a “Thank You” poster, and recognized as a Bronze Level Sponsor in the Plenum. Make sure your company name is on these items!*

Yes, I would like to be a Sponsor for the 32nd Annual High-E-Fishin-Sea fishing tournament

. Company _____ Name _____
Address _____ City, State, Zip _____
Phone _____ Fax _____ e-mail _____
Gold Level _____ Amt _____ Item _____
Silver Level _____ Amt _____ Item _____
Bronze Level _____ Amt _____ Item _____

Mail form to PO Box 3407 Lantana, FI 33465 or call Alexa with any questions at **561-585-3880**.

Bronze Level Sponsorships

Available are:

Sponsorship Available:

The One That Got Away Sponsor \$100 _____
Biggest Fish Story Sponsor \$100 _____
Worst Hard Luck Sponsor \$100 _____
The "Coolest" Fish Sponsor \$100 _____
Top Lady Sponsor \$100 _____
Fancy Fish Sponsor \$100 _____
Ugliest Fish Sponsor \$100 _____
Make up your own Sponsor \$100 _____
Biggest Bonita Sponsor \$100 _____

The above listed sponsorships are cash prizes \$100 to be awarded to one of the anglers at the HEFS event.

Raffle Prize Sponsor: **Federated Insurance**

I would like to donate an **item(s)** to be raffled with the proceeds going to **The Maury Jacobson Scholarship Fund**. Item: _____

Company Name: _____

Contact: _____

Address: _____ City: _____ State/Zip: _____

Phone#: _____ Fax#: _____

E-Mail: _____

Enclosed Amount: _____ check#: _____

This fund raising event not only provides revenue for PBACCA, but all proceeds from our raffle go toward **The Maury Jacobson Scholarship Fund**. PBACCA provides funding for **The Maury Jacobson Scholarship Fund** for Palm Beach County Students interested in pursuing a career in HVAC/R. This vehicle is intended to motivate and support the efforts of young people into the HVAC/R career pathway.

If you do elect to participate as a sponsor, your organization will be recognized at the time of presenting the prize, on a Large Sign at the Tournament and also in our August issue of The Plenum, PBACCA's monthly publication, which reaches over 1000 readers each month. So, **please sign up for sponsorship of choice now!**

Thank you for supporting Palm Beach Air Conditioning Contractors

Association Remit to: PBACCA, PO BOX 3407 Lantana, FL 33465

Call with Any Questions to Alexa Lee, 561-585-3880



PSSST...HEY THERE!

Do you excel at your job? Do you feel like you have something to offer? Would you like to give back and share your knowledge with the next generation technicians? Have you considered being an apprenticeship instructor? Our classes are held on Monday and Wednesday evenings from 6:30 - 9pm.

Call Steve or Kelly if interested.

Contact: 561.262.7523 or 561.644.5668



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- How to troubleshoot ECM motors
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All attendees will be entered into a drawing for a **FREE TECINSPECT!** This invaluable tool provides simple, fast, and accurate diagnostics of variable speed motors.



NATE Continuing Education Class

This class offers two (2) NATE Continuing Education Credits.

WHEN

Thursday,
April 25, 2024
8:00 am - 10:00 am

Light Breakfast/Snacks Provided

WHERE

Courtyard
Palm Beach Jupiter

4800 Main Street
Jupiter, FL 33458

MEET OUR INSTRUCTOR:



Ken Darin, Key Account Manager, Regal Rexnord

Ken Darin represents Genteq (Evergreen), Century, Fasco, and Marathon motor lines. He has a long history in the HVAC market, beginning with his father's contracting business in Michigan, where he started in the field and later became the GM for the \$25 million a year business, managing over 100 employees. He joined the wholesale segment working as a Territory Manager for Carrier and Trane before moving to Florida and joining AO Smith, selling and training on motors. AO Smith was sold to Regal, and Ken has been in the motor business for 16 years. Overall, Ken has 37 years in the HVAC business and brings a wealth of technical and field experience to his classes. Ken conducts, on average, over 100 training classes a year focusing on Motor Mastery and ECM Motor application, installation, and troubleshooting.

Register using QR code



*Registration is required,
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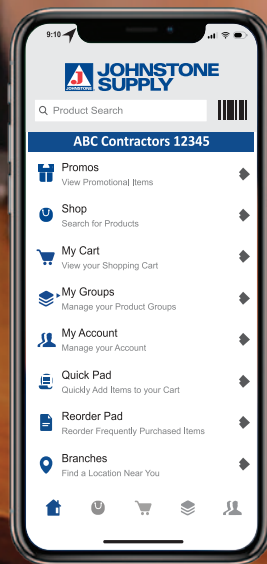
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Name: _____

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
and text msg? _____

Events

Calendar

Palm Beach Air Conditioning Contractors Association, Inc.

2024 CALENDAR of EVENTS

- April 4 **General Meeting** - 5:30 pm
The Beach Club One 7th Avenue North,
Lake Worth, Fl. 33460 **Speaker** Doug Wise PBC
Building Division Director. **Meeting Sponsor** Mary
Killian of Acentria Insurance
- May 2 **Board Meeting** - 4:30p.m. - **Zoom Meeting**
- June 6 **General Meeting**- 5:30 pm The Beach Club
One 7th Avenue North, Lake Worth, Fl. 33460
CANCELED
- June 6 **32nd Annual High-E-Fishin-Sea Captains Meeting**
Rafiki Tiki 6pm
- June 8 **32nd Annual High-E-Fishin-Sea Fishing Tournament**
Rafiki Tiki Awards 4-6
- July 11 **Board Meeting** - 4:30p.m. - **Zoom Meeting**
- Aug 1 **General Meeting**- 5:30 pm The Beach Club
One 7th Avenue North, Lake Worth, Fl. 33460
Apprenticeship Graduation
- Sept 5 **Board Meeting** - 4:30p.m. - **Zoom Meeting**

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Another Reason to Smile

MOTHER CALLED

A man answers the phone and has the following conversation:

"Yes, mother, I've had a hard day. Colleen has been very difficult - I know I ought to be more firm, but it is hard. Well, you know how she is. Yes, I know you warned me. I remember you told me that she was evil and would make my life miserable and you begged me not to marry her. I should have listened to you. You want to speak with her? All right."

He looks up from the phone and calls to his wife in the next room, "Colleen, your mother wants to talk to you!"

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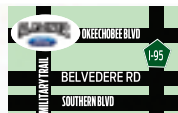
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Become Certified

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!*