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ASPE NEW YORK CITY CHAPTER

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<http://www.aspenyc.org>

S E P T E M B E R M E E T I N G I N F O R M A T I O N

Topic: Domestic Hot Water Recirculation & Balancing

Speaker: Max Rohr

Sponser: Wallace Eannace

PDH Credits Provided

Date: September 2nd, 2026

Location: The Tailor Public House & Kitchen - 505 8th Avenue

Time: Dinner Served: 5:30pm

Technical: 5:30-6:30pm

Social: 6:30-8:00pm



If you wish to receive only digital copies of the newsletter please email nycaspennewsletter@gmail.com.

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A Message

FROM THE PRESIDENT



My fellow ASPE NYC Members,

I hope you all had a happy and healthy summer as we look forward to welcoming everyone back to Tailor Public House on September 2nd ! The board has been busy during the off-season, planning several exciting events this year.

On September 10th , we have an ASPE Young Professionals event at Clinton Hall. Be sure to RSVP to David dalperin@burns-group.com and Dempsey dnarcisse@syska.com to secure your spot!

Later this fall, ASPE will be heading to Oklahoma City for our bi-annual Convention and Expo! **Registration is now open** for the event, which runs from October 9th to 14th. The Convention is a great way for members to learn about products in the industry, network with peers, and earn CEUs. Visit <https://expo.aspe.org/> for more information!

WOA for a Cause will be continuing our annual participation in the Making Strides Breast Cancer Walk! Please join us on Sunday, October 18th to help end the fight against breast cancer. All are welcome to participate, including families! RSVP to Catherine CFMassih@Platsky.com and receive a free t-shirt for the event (while supplies last).

As our chapter continues to host appealing events and AI becomes more advanced, it's important to stay vigilant of phishing scams and remember the contact information for our board. **Board members will only reach out to you via the emails/phones listed on the cover sheet**, and official chapter communications will only come from ny.aspe@gmail.com, nycaspenewsletter@gmail.com, or postmaster@mg.aspenyc.org. We are thankful to have such an engaged chapter, and we appreciate your diligence to keep it safe!

We look forward to seeing you all our next Chapter Meeting on September 2nd ! Same great time, same great place.

Yours in ASPE,
Sean Mooney, CPD





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Thanks for turning to black and red for decades. We're proud to be part of your incredible city. Without you, NYC wouldn't be the same, and neither would we.

CHARLOTTE
PIPE AND FOUNDRY COMPANY



Announcement to the Engineering, Contractor and Plumbing & HVAC Professionals

About Us

Since 1981 -Bart Terroni Sr. founded the B.J.Terroni Co and opened its doors as Manufacturer's Representative in our 1,700 Sq.ft office in Andalusia, Pa.

Today, the company is operating as the Third Generation, Family-Owned business under Bart Terroni Jr and Chris Terroni, now over 45 employees Strong and the company is now located in Bensalem, Pa housed in (2) Newly Renovated 18,000 Sq.Ft facilities. Our Building features a training center with a "Live Fire" equipment Lab. We are specifically designed to educate the industry in total system operations and promote System solutions that we can provide.

We are excited to announce that B.J. Terroni is now the Specifications Representative for Nupi Americas, Inc – A North American Subsidiary of Nupi Industrie Italiane, S.p.A a Globally Recognized Leader and Innovator in Thermoplastic Piping systems with of your 50 Years experience. For 25 Years, Nupi Americas, we have been a market leader in PP-RCT piping system for commercial and industrial Applications as well as dual Containment piping systems.

Our Territory: consisting of New York City Metro area, Westchester County, Rockland County, Long Island- Nassau and Suffolk County and North Jersey.

For all your needs about Nupi Niron PP-RCT Piping Systems – Please don't hesitate to contact **BJ Terroni Company, Inc @ NUPI-NYNJ@bjterroni.com**

Let us know, let's get together for Lunch N Learn or Teams"

Our team Dedicated for Nupi Niron as follows:

Sean Conner, Commercial Sales Manager – sean.conner@bjterroni.com

Wayne Warren, Commercial/Applied Products – wayne.warren@bjterroni.com

R.Paul Silvestre, FASPE – Commercial Plumbing/Heating Specialist - paul.silvestre@bjterroni.com

JOIN WOA NYC FOR A CAUSE

BREAST CANCER WALK

IN CENTRAL PARK

SUNDAY,
OCTOBER 18TH

TIME: 9AM - NOON

LOCATION MEET UP:
BEETHOVEN MONUMENT
(IN CENTRAL PARK, GOOGLE MAP IT)

RSVP:

cfmassih@platsky.com

RECEIVE A FREE
T-SHIRT* WHEN YOU RSVP!
INCLUDE YOUR SIZE IN
EMAIL

*WHILE SUPPLIES LAST

THIS EVENT IS OPEN TO EVERYONE

THE WALK IS A 4 MILE ROUTE THROUGH CENTRAL PARK STARTING AND
ENDING AT THE NAUMBURG BANDSHELL.

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Women
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Meet FRANK SMITH

Business Development Manager,
Commercial/Mechanical — Metro NY

BUILT FROM THE TRADE. BACKED BY VICTAULIC.

Frank began working in his family's plumbing business at age 10, which sparked a lifelong career in piping systems and mechanical infrastructure.

Since 2016, he has partnered with engineers and design professionals to support pipe, valve, and fitting specifications—guiding product selection decisions, solving technical challenges, and moving designs from concept through construction.

Since joining Victaulic in December 2025, Frank continues to collaborate with engineers, developers, and building owners to deliver innovative piping solutions backed by technical expertise.



Have a question or need specification support? Get in touch.

Frank.Smith@Victaulic.com | 732-267-8210

Scan QR code to add Frank's contact information to your phone

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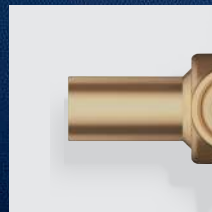
ADDITIONAL CONNECTIONS



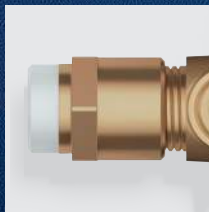
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1/2" PEX cold expansion inlets



1/2" Stub-out inlets/outlets



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Join us at our Non-Fluorinated Firefighting Foams Seminar

📍 Martinique New York on Broadway, Curio Collection by Hilton
49 W 32nd Street New York City, New York 10001

📅 Tuesday, September 15

🕒 8 a.m.-12 p.m.



The Fire Protection industry is changing. The transition away from fluorinated firefighting foams is no longer a future consideration. New regulations, environmental concerns, evolving performance standards, and facility-driven risk management initiatives are creating challenges for those responsible for designing, maintaining, approving, and operating foam systems.

Whether you are reviewing plans, designing systems, installing equipment, maintaining facilities, or managing risk, understanding how Non-Fluorinated Firefighting Foams (NFFs) will impact your projects has become essential.

Why This Seminar Matters?

- Can my existing foam system be converted?
- Will my proportioning equipment work with NFF?
- What are AHJs looking for during plan review?
- How do NFPA requirements apply during conversion projects?
- What testing and commissioning challenges should I expect?
- What are the risks of waiting too long to develop a transition strategy?

Who Should Attend?

- Authorities Having Jurisdiction (AHJs)
- Fire Protection Engineers
- Fire Protection Contractors
- Design-Build Contractors
- Facility Owners & End Users
- Insurance & Risk Management Professionals

Key Takeaways:

- Understanding of NFF technology
- Guidance for evaluating existing systems
- Awareness of regulatory and environmental considerations
- Engineering and contractor perspectives
- Strategies for reducing project risk
- Networking opportunities with industry professionals

Space is limited, secure your spot by registering today.

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- Temperature Monitoring Control- High Temperature Safeguard with Solenoid Valve
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When the mixing valve sensor detects an overly high supply water temperature, the ETV-Plus signals the solenoid valve located in the hot water supply line to close, shutting off hot water supply to the system. It also triggers an alarm to notify personal and enacts a manual reset requirement so that the valve will not re-open until the problem is resolved.



With remote communications capability (via the Internet or BACnet) these alarms and other control points can be seen and accessed via the internet or an energy Management System.

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FEATURES & BENEFITS



Detects run-on conditions lasting 30 seconds or more and immediately triggers an alert.



Silent remote alerts with text or email notifications via SC Argus Pro IoT platform.



Audible local alarms with a 95 dBA continuous audible alert for up to 72 hours that automatically disarms when the run-on conditions clear.



Promotes sustainability goals by enabling rapid response to run-on conditions, helping reduce avoidable water waste.



Easy upgrade the audible model to smart IoT connectivity.



INSTALL. Universal compatibility.

Sloan Track-on was designed with the realities of commercial facility management in mind. The V700AA installs just like ordinary vacuum breaker tubes in use today, making it an easy upgrade for any existing top-spud flushometer, including flush valves from other manufacturers.



MONITOR. Stay ahead of maintenance.

Choose the alert method that best fits the facility's operational needs with audible and IoT models. The SMT (Smart) IoT model connects to Sloan's SC Argus® Pro IoT Platform, delivering real-time text or email notifications when a run-on is detected. The local alert model provides a clear 95 dBA audible alarm that automatically silences once the issue is resolved.



RESPOND. Save run-ons, save expenses.

A single run-on event can waste up to 30 gallons of water per minute, driving up water and sewage costs, risking water damage, and creating unnecessary strain on building systems. Sloan Track-on gives facilities the early warning they need to act fast. **Every minute counts.**



V700AA-SMT
Water Closet
SRS-190611382049

● Alert raised

SOLIS® Flushometer with Sloan Track-on Run-on Detector

notifies staff of run-on conditions electronically via the SC Argus Pro IoT platform.

SLOAN TRACK-ON RUN-ON DETECTOR

	SMT (SMART) IoT MODEL Remote Alert	LOCAL ALERT MODEL Audible Alarm
ALERT TYPE	Silent remote alert	Local 95 dBA S-O-S audible alarm
ALERT DELIVERY	Text or email via SC Argus® Pro	Continuous audible alert for up to 72 hours
AUDIBLE ALARM	Optional local alarm enabled by user	Built-in audible alarm that disarms when run-on ends
BATTERY LIFE	Up to 3 years	Up to 6 years
BEST FOR	Part-time or off-site staff	Fully staffed facilities



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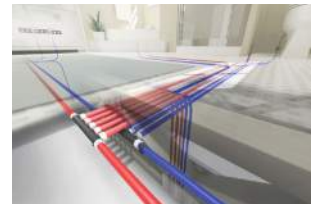
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MODEL **WDS-BDPSW™**

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storm drains.



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intervention.



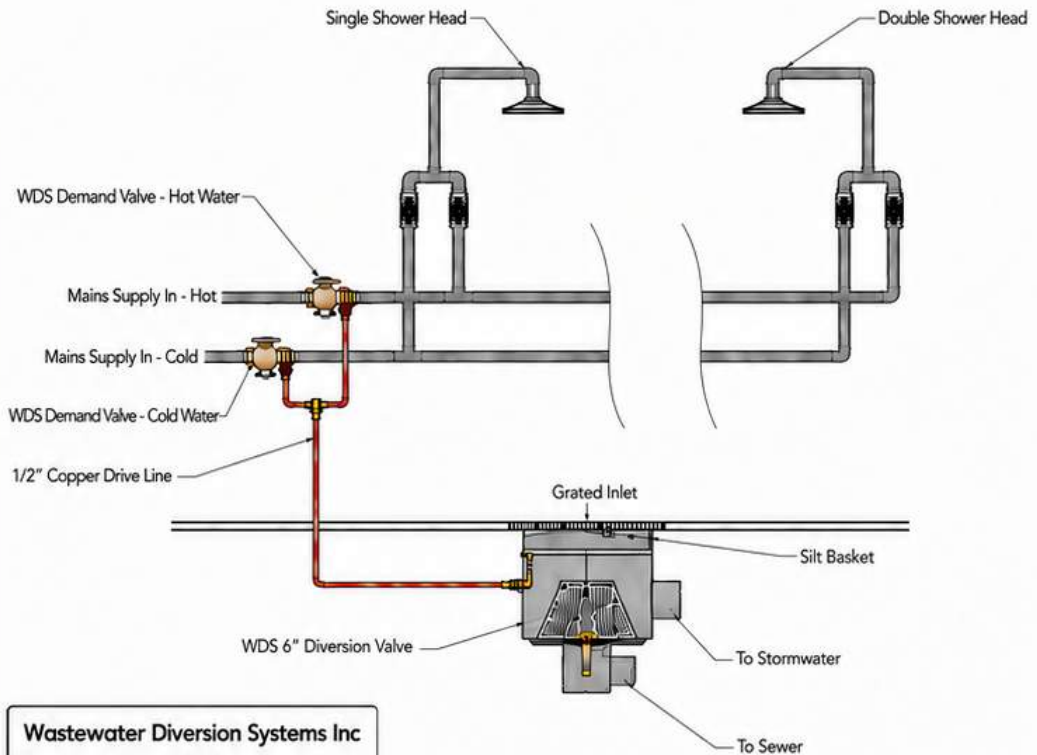
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diversion occurs
the instant a
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Drawing property of WDS

WDS-BDPSW™

(WDS BDPSW Diversion System)

7/21/2018

TM

PRODUCT DESCRIPTION

The WDS-BDPSW Automatic Shower Wash Water Diversion System is a hydraulically actuated diversion system designed to automatically direct shower wash water to the sanitary sewer whenever a shower is activated. During normal operation, stormwater continues to drain through the stormwater system. The diversion occurs automatically without electrical power, sensors, or operator intervention.

KEY FEATURES

- ✓ Automatic hydraulic operation
- ✓ No electricity required
- ✓ Automatically diverts shower wash water to the sanitary sewer
- ✓ Prevents wash water from entering the stormwater system
- ✓ Heavy-duty industrial construction
- ✓ Suitable for new construction and retrofit installations
- ✓ Low maintenance and highly reliable

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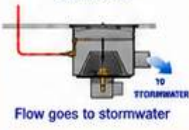


All Outdoor Showers at
Beaches, Resorts and
Private Pools

HOW IT WORKS – AUTOMATIC OPERATION

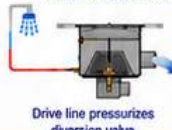
1 NORMAL CONDITION

Showers OFF



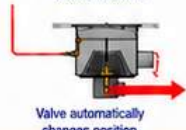
2 SHOWER ACTIVATED

Water flows to shower



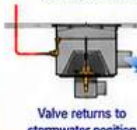
3 VALVE DIVERTS

Diverts to sewer



4 SHOWER OFF

Returns to normal



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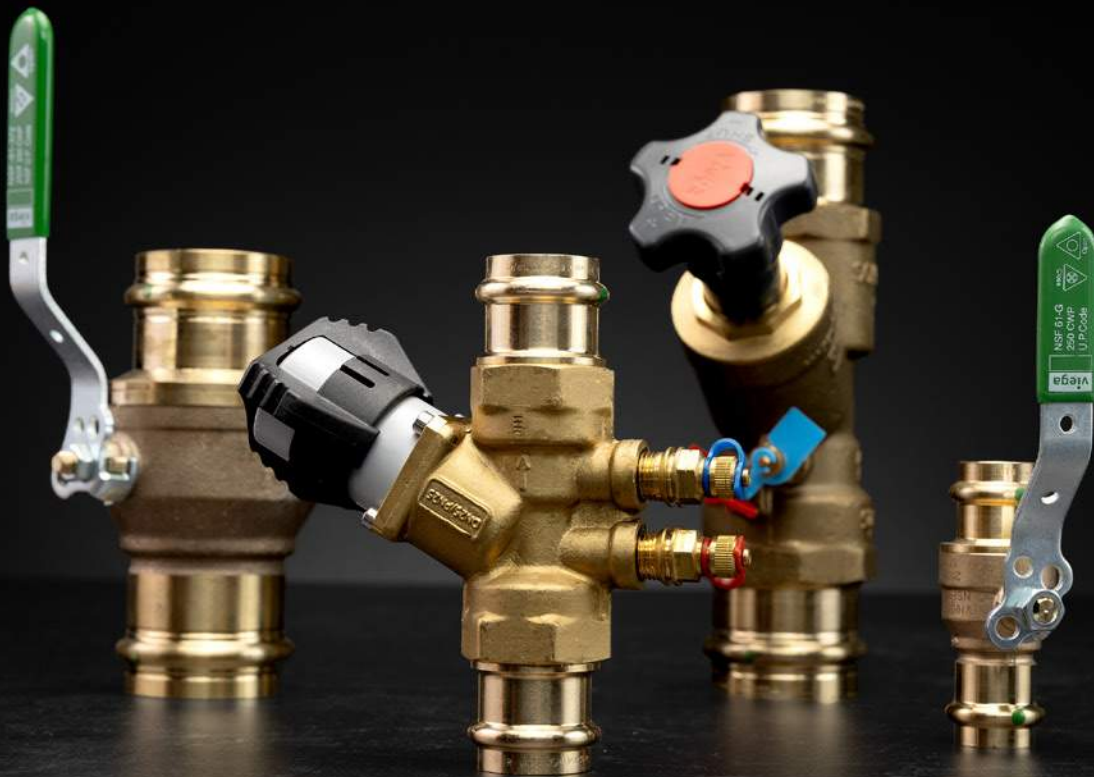
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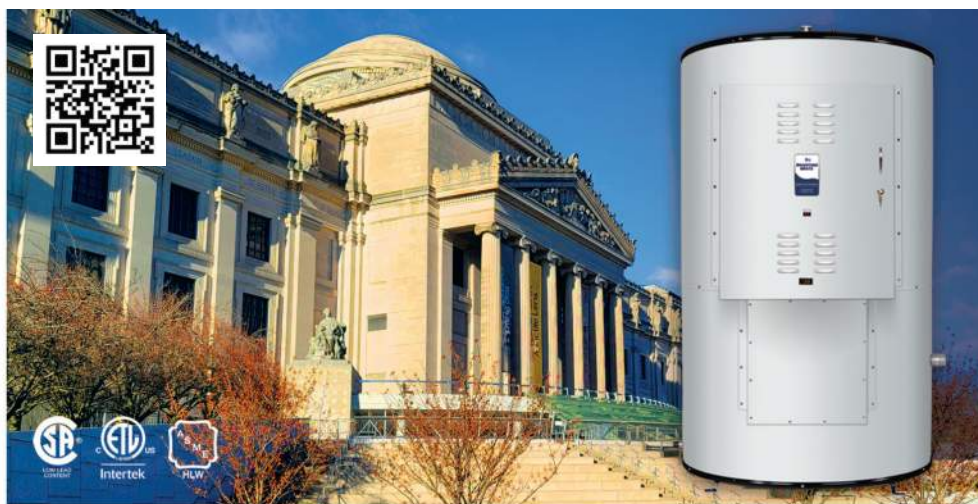
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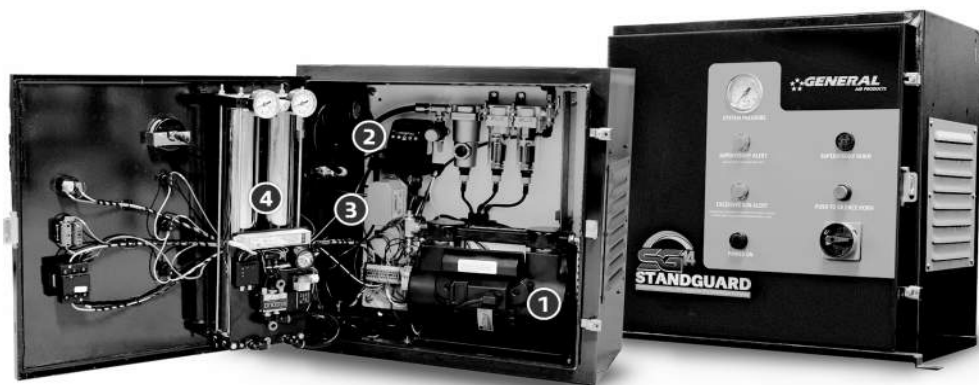
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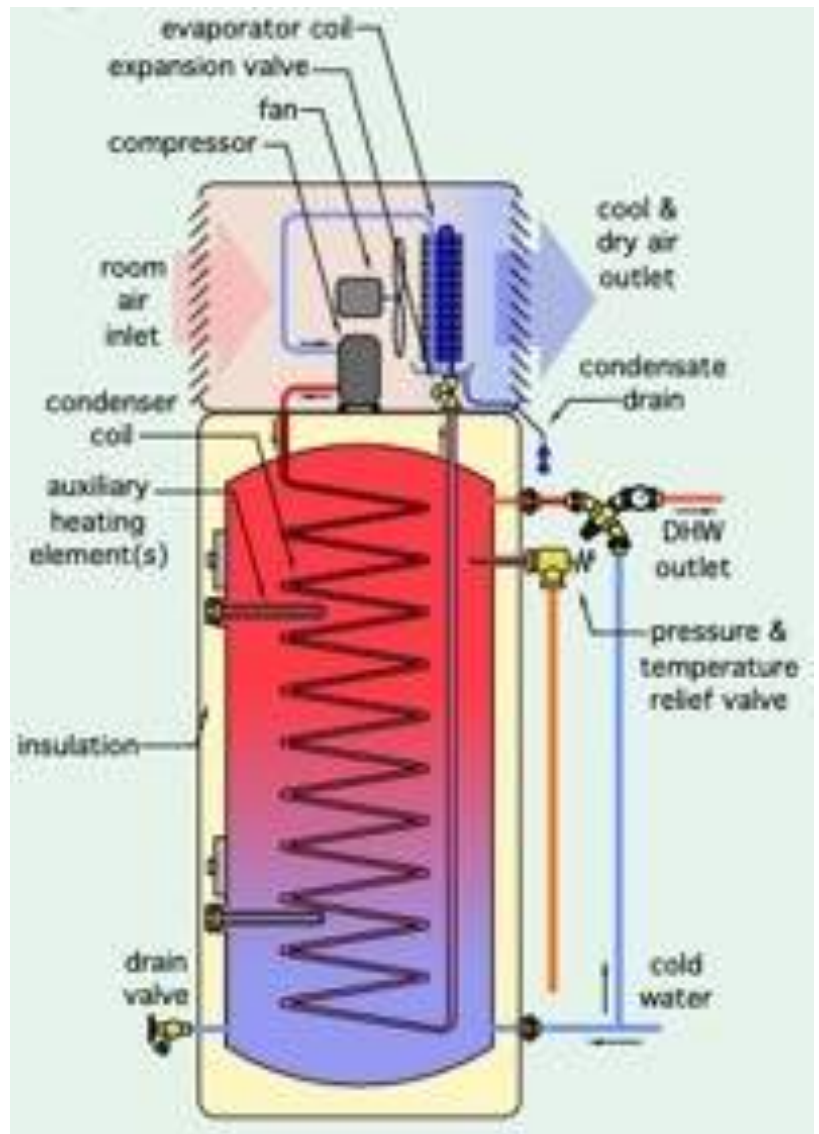
The latest wave to enter the Plumbing Engineering world for the northeast has been domestic water heat pumps. They have been around for a while in Europe and the warmer American climate zones which provide ample “heat” to be extracted from the air.

Let’s take a quick look at how these systems work. Heat pump water heaters operate on the same thermodynamic principle as a refrigerator, just in reverse. They use electricity and the refrigeration cycle to absorb ambient heat from the surrounding air and transfer it into a water tank.

Extracting heat from the air takes longer than traditional electric heaters so most domestic units are “hybrid” water heaters and feature standard electric resistance elements as backup, which automatically turn on to provide rapid hot water recovery during periods of high demand. This allows for a higher coefficient of performance (COP) as much as 4-5 compared to standard electric resistance of 1.

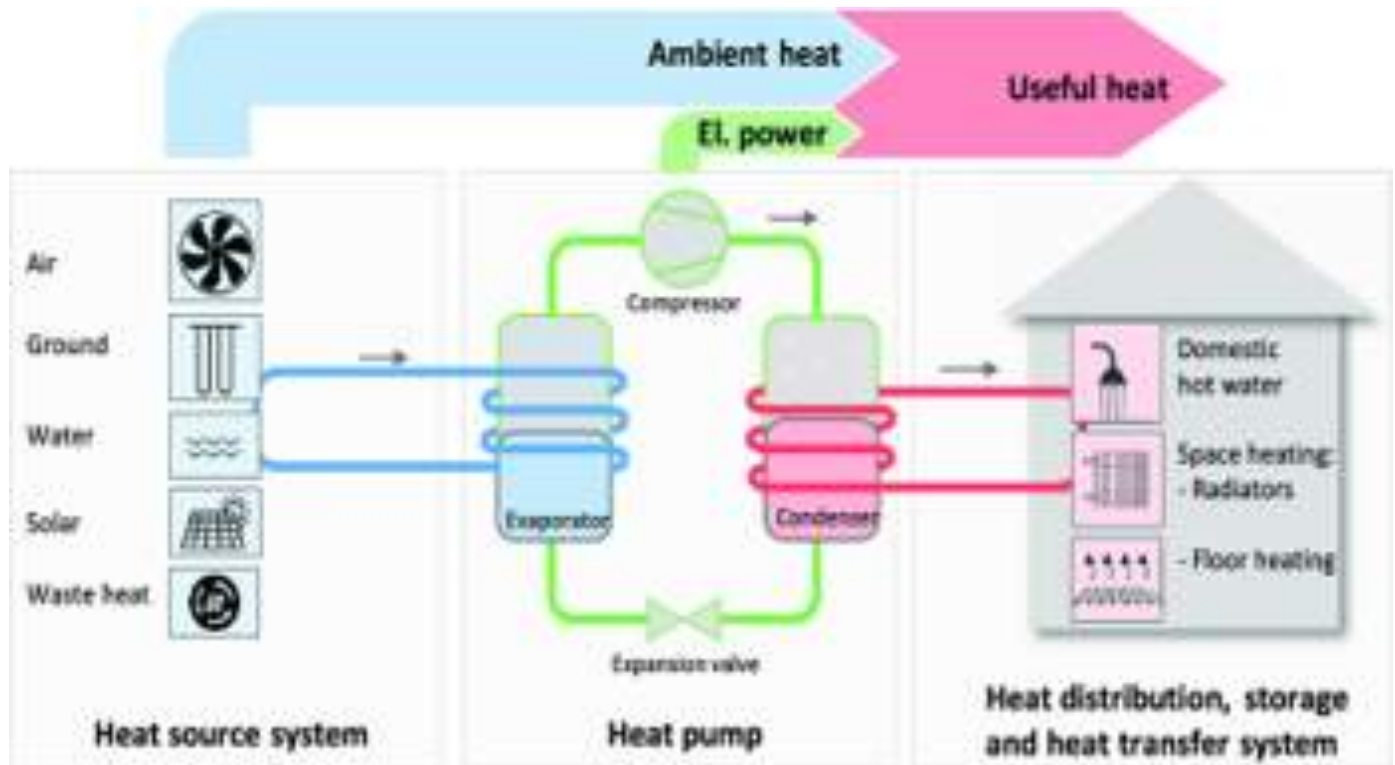
Residential units are considered packaged units as they have both the storage and heat pump in one. Commercial-scale heat pump water heaters have larger outdoor version of the refrigerant heat pump system, and a fluid medium is circulated between the heat pump and one or more indoor storage tanks. This would be considered an Air Source Heat Pump (ASHP).

The circulation fluid medium can be regular potable water which would get heated directly from the heat pump and stored. This would require the outdoor piping to be heat-traced to avoid freezing. Alternately the medium a glycol water mix running through the heat pump which wouldn’t require heat tracing but would need an indoor heat exchanger to transfer the heat from the glycol side to the potable water side. This provides peace of mind that the exterior piping won’t freeze but requires additional components and pumps to circulate the water both on the heat pump side and the potable water side.



Another type of heat pump is a Water Source Heat Pump (WSHP). This system is similar as the above except the "heat" doesn't come from the ambient air, but instead from: an internal hot water loop. This "loop" can be:

- A mechanical hydronic system,
- A Solar system
- A Geothermal system
- A wastewater heat recovery system



If there is available capacity for heat in the source side, then heat pumps can pull it out and generate domestic hot water up to 170° temperature. Heat pumps work most efficiently when heating cold water because of the larger temperature differential. To offset heat loss in the distribution system, hot water return lines are often routed through a separate electric water heater, which helps maintain a high COP for the main system. Some clients also want backup during power outages, so gas-fired water heaters are sometimes integrated to supplement hot water in emergencies.

Sizing a heat pump system involves many of the same considerations as sizing a traditional water heater, including fixture count, occupancy type, and heater location. However, because heat pumps recover more slowly, they typically require greater storage capacity to meet peak demand. Sizing is usually done in coordination with the manufacturer's representative, who can recommend a suitable system based on their particular product line.

As our energy infrastructure continues to evolve, expect to design, size, and install more of these systems in future projects. You can go to education.aspe.org to find more info on these systems as well as other plumbing systems. Thank you and Stay Educated.



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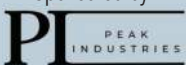
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JUNE MEETING MINUTES

The June meeting was initiated by Sean and began with the Pledge of Allegiance, after which, several announcements were made. Eric made a few announcements of upcoming events. There is a tour of the New Croton Reservoir late Spring/early Summer. Details on the date of the tour and how to register will be announced in the future. On Thursday, July 16th at 10am, there is a Newtown Creek Wastewater Treatment Plant tour. Details on how to register are on the website. The ASPE summer golf outing is on Monday, August 10th. There will be a New York Aquarium family day on a Saturday in the summer. Details on the date will be announced in the future. The Joint Fishing Trip will be on Saturday, September 26th. The next AYP event will be on Wednesday, June 24th at Barcade Chelsea. The 2026 ASPE Convention and Expo is October 8th – 14th in Oklahoma City, Oklahoma. Registration is now open and more details can be found at expo.aspe.org.

Technical Presentation: The Greatest Decarbonization District: Strategies for Decarbonizing the Largest District Energy System in the U.S & Benefits for a Clean Energy future

by Linnea Paton

The meeting began with an overview of Manhattan's district steam system and its role in New York City's evolving energy landscape. Linnea stated that Manhattan's steam network with 106 miles of steam pipe represents the largest district energy systems in North America and serves many of the city's most prominent institutional, commercial, healthcare, and residential buildings. There roughly 1500 customers in New York City that are served district steam. While district steam has historically relied on fossil fuel generation, the presentation focused on Con Edison's strategy for transforming the existing system into a decarbonized thermal network capable of supporting New York City's carbon emission goals.

Linnea reviewed the regulatory framework driving this transition, including New York's Climate Leadership and Community Protection Act (CLCPA) and New York City Local Law 97. These policies require significant reductions in greenhouse gas emissions over the coming decades and have prompted questions regarding whether widespread building electrification alone can realistically achieve these targets. Rather than viewing steam as an obstacle to decarbonization, Con Edison presented district steam as an existing asset that can be leveraged to reduce emissions while minimizing impacts on the electric grid.

Linnea discussed the challenges associated with full building electrification. Electrifying thousands of existing Manhattan buildings would require substantial upgrades to electrical generation, transmission, and distribution infrastructure. The presentation noted that future electric demand is expected to increase significantly, with New York City projected to require approximately 750 MW of additional peak capacity by 2036 and more than 2,000 MW beyond 2040 as winter electrification loads continue to grow. Maintaining and decarbonizing district steam can alleviate pressure on the electrical system while preserving a reliable thermal energy source.

A major portion of the presentation focused on Con Edison's 2024 Steam Decarbonization Study. The study evaluated multiple pathways to achieve a net-zero steam system by 2050 while coordinating with long-range electric and gas planning efforts. The analysis considered existing infrastructure, available energy resources, technology maturity, projected customer demand, implementation costs, and system resiliency. A total of 24 decarbonization technologies were assessed using a comprehensive scoring methodology, ultimately identifying 12 technologies suitable for inclusion in potential decarbonization pathways.

The recommended near-term strategy centered on three primary technologies: industrial heat pumps, electric boilers, and thermal energy storage (TES). Industrial heat pumps were presented as a promising option capable of extracting heat from low-temperature sources, such as the East River, and upgrading that energy to steam production temperatures. One proposed East River Industrial Heat Pump Project would utilize a 50 MW thermal heat pump system requiring approximately 35 MW of electrical input while producing up to 150 Mlb/hr. The system is expected to achieve a coefficient of performance (COP) of 1.56 or greater. Con Edison has conducted evaluations with multiple manufacturers, including international vendors, with the project carrying an estimated implementation timeline of approximately 4 years and an initial cost estimate of \$146 million.

Electric boilers were also identified as a key near-term decarbonization technology. Unlike heat pumps, electric boilers utilize electricity directly to generate steam and are considered mature, proven technology. The proposed 74th Street Electric Boiler Project would provide approximately 50 MW of thermal output, equivalent to roughly 150 Mlb/hr of continuous steam production. The system would receive power from the 75th Street Substation and would be capable of ramping from standby to full output in approximately 2 minutes, providing valuable operational flexibility. The estimated implementation period is approximately 3 years, with an initial project cost of roughly \$50 million.

The presentation also introduced Con Edison's Low-Carbon Fuels Pilot Program. Through this initiative, renewable natural gas (RNG) and other low-carbon fuel sources would supplement conventional fuel supplies used in steam generation. The presenters estimated that local suppliers within New York City and Westchester County could provide approximately 10% of the steam

system's annual fuel requirements within the next decade, representing approximately 10.9 million dekatherms of fuel displacement. Rather than requiring major infrastructure changes, the program would utilize fuel procurement strategies to reduce lifecycle emissions associated with steam production.

Thermal energy storage emerged as another important component of the decarbonization strategy. TES systems allow electricity to be converted into stored thermal energy during periods of lower demand or greater renewable energy availability. That stored energy can later be discharged to produce industrial-scale steam when needed. The presenters emphasized that TES provides opportunities for load shifting, improves utilization of intermittent renewable generation, and reduces strain on the electrical grid during peak periods.

Several long-term steam decarbonization pathways were subsequently presented. Rather than prescribing a single fixed solution, the study identified multiple pathways that could adapt to future uncertainties involving regulation, customer demand, technological advancement, and renewable energy availability. Regardless of the pathway ultimately pursued, the study consistently identified common near-term investments involving electric boilers, industrial heat pumps, thermal energy storage, and the gradual retirement of existing fossil fuel assets.

The economic implications of district steam decarbonization were a major focus of the presentation. According to the study, decarbonizing the steam system may be 3 to 5 times less expensive than requiring full electrification of steam-served customer buildings. The analysis estimated potential cost avoidance ranging from \$53 billion to \$66 billion, including approximately \$7.6 billion in avoided investments associated with expanding the electric transmission and distribution system. The presenters emphasized that steam decarbonization could provide a more cost-effective compliance pathway for many buildings seeking to meet Local Law 97 emissions targets.

The benefits of retaining district steam extended beyond economics. Steam systems were described as highly resilient infrastructure, currently maintaining reliability levels exceeding 99%. Decarbonized steam could also reduce future winter peak electrical demand while providing opportunities for demand flexibility and load shifting. By producing steam during periods of lower electric demand or higher renewable generation, the system could support more efficient operation of the overall grid.

The presentation further explored the relationship between district steam and building-level technologies. Existing steam customers already utilize steam chillers, including centrifugal, absorption, and hybrid steam-electric systems, which collectively offset more than 100 MW of summer electric peak demand. Linnea noted that even all electric buildings could potentially connect to district steam to reduce both winter and summer electrical peaks without introducing on-site combustion, maintaining compliance with Local Law 154 requirements for new construction.

Linnea then discussed site versus source energy, noting that building efficiency metrics do not always capture broader system impacts. The presenters argued that evaluating source energy and grid-level efficiency provides a more complete understanding of environmental performance, particularly when considering large-scale infrastructure investments and regional generation requirements.

The presentation concluded by outlining Con Edison's projected emissions reductions for the steam system. Based on current forecasts, steam emissions coefficients are expected to decrease by approximately 5% between 2024 and 2029, 26% between 2030 and 2034, 52% between 2035 and 2040, 74% between 2040 and 2045, and the study ultimately projects that Manhattan's district steam system can achieve full net-zero decarbonization by 2050 while supporting Local Law 97 compliance, reducing pressure on the electric grid, and maintaining the resiliency benefits of district energy infrastructure.

Linnea ended the presentation with a question and answer session from the audience.



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