

**ASPE
YOUNG
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19 JAN | 12 PM

**Guest Speaker:
Andrew Macaluso**

**Hosted By:
Richmond Chapter
Zoom Meeting**



HEAT PUMP WATER HEATER TECHNOLOGY

Attendance is FREE for Region 1 Young Professionals

Registration link will be provided at a later date



What's Old Is New Again: THE ENVIRONMENTAL & OPERATIONAL BENEFITS OF R744 HEAT PUMP WATER HEATERS

Andrew is the Product Manager, Systems Solutions at Watts Water Technologies. He has led the introduction of the newest commercial heat pump water heating technologies. He holds a Bachelor of Science in Mechanical Engineering from Columbia University and is an active ASPE member.

As electrification and decarbonization initiatives continue to grow throughout North America, there is increased scrutiny on the refrigerants being used. Heat pump water heaters powered by R744, better known as CO₂, provide a way to address everevolving energy savings and low-GWP requirements. This session will explore low-GWP CO₂ refrigerants that can provide high performance under a wide range of operating conditions. This rapidly growing product category offers many unique benefits. This session will examine the factors driving the adoption of R744-powered heat pumps, the keys to a transcritical refrigeration cycle, options for maximizing performance, strategies for applying this technology, and opportunities to integrate them with other ecofriendly water heating systems

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