

attendees and exhibitors and look forward to seeing many of these connections come to life in the products and technologies on the Show floor in Orlando next year." The 2020 AHR Expo is scheduled for February 3-5 at the Orlando Convention Center.

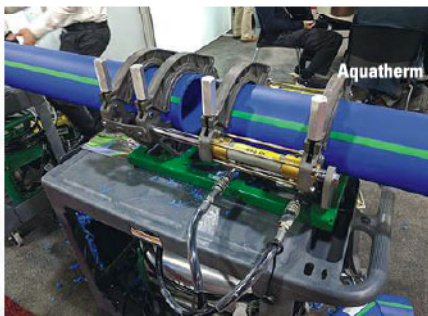
The Expo is co-sponsored by ASHRAE and AHRI, endorsed by a host of industry leading organizations, and is held concurrently with ASHRAE's Winter Conference (see our cover story, "ASHRAE Wraps Successful AHR Expo, Winter Conference").

Best from the show floor

Armstrong Fluid Technology announced the availability of a new capability on all of its Design Envelope solutions. All Design Envelope pumps will have the capability to predict and detect cavitation in a pump, and deliver an alert to a previously established contact. The ability to detect cavitation and provide an alert will limit the energy losses and equipment damage.

Aquatherm had new, larger diameter PP-R pipes and fittings to showcase, but the real scene-stealer at the Aquatherm booth was the new large-diameter heat-fusion machine from **McElroy** that was forming joints on-site.

Bosch Thermotechnology brought a host of new products to the show, including their Con-



The McElroy large-diameter heat-fusion machine.

ected Control Thermostats, the SSB Industrial Boiler, the Greenstar Gas Condensing Boiler, and the SM Rev C Geothermal Heat Pump. But, with their flexibility that makes them ideal for retrofit applications, it may be their new minisplits that have the biggest impact. The Climate 5000 Minisplit Heat Pump System is ideal for residential heating and cooling up to 48,000 Btuh. The system is quiet, inverter-driven, and can function properly across an extended operating range from -13°F to 122°F.

Emerson showcased a variety of ASCO solenoid and electrohydraulic fuel gas safety shutoff valves. These products meet leading agency approvals and are ideal for boilers, ovens, furnaces, gas generators and heating equip-

ment in commercial and industrial applications. Also on display were the company's AH2(E) On-Off Actuator and AH4(E) Low-High-Off Actuator.

Compatible with V710-type gas valve bodies, these electrohydraulic motorized actuators provide reliable on-off and low-high-off control of main gas lines to industrial and commercial burners.

Lochinvar announced the release of its micro-CHP (Combined Heat & Power) XRG1 25 cogeneration system. Producing 480-volt three-phase 24-kW and capturing 163,000-Btuh from the engine exhaust renders an astounding 93percent operating efficiency. You can get the full story from columnist Dave Yates starting on pg. 24.

Niles Steel Tank debuted its Power Plates water heating system that ships with the customer's choice of water storage tank up to 2,500 gal. The Power Plate heat exchanger provides high rates of heat transfer requiring less surface area than conventional shell or tube heat exchangers. Grooved connections for easy boiler hook-up come standard.

Poloplast is a German company working to establish itself in the North American marketplace. They manufacture PP-R pipe for plumbing and mechanical systems. The company's pipes and fittings are designed to be assembled in a quick and cost-sensitive manner into systems that are longer lasting, exceedingly eco-friendly, and provide efficient operating characteristics.

Rinnai had two major launches at AHR, the I-Series Boiler and the Demand Duo 2. The I-Series can allow for simultaneous home heating and domestic hot water production. If the heat is running and someone in the home wants a shower, the heat is not interrupted. The technology also includes an innovative bypass servo valve, which enables precise control of the hot water temperature. The boiler is available in both combi and heat-only models and comes



2- and 3-way subminiature solenoid valves, ideal for potable water and food service applications, from the ASCO unit of Emerson.

Lochinvar



The micro-CHP (Combined Heat & Power) XRG1 25 cogeneration system.

standard with multi-zone heating control.

Building off the success of its current line of commercial products, the Demand Duo 2 combines the hybrid technology of the Demand Duo product family with the redundancy and performance of its commercial rack systems. The system features a 119-gallon storage tank along with two CU199 Rinnai Tankless Water Heaters with freestanding rack that work together to offer the best benefits of both tank and tankless technology. The 119-gallon storage tank offers built-in redundancy and storage for high spike draws - eliminating the need to purchase multiple tank water heaters.

The big story out of the **Taco Comfort Solutions** booth was the 0018e high-efficiency, Bluetooth-enabled circulator. The ECM-powered 0018e is a solution for contractors who want the durability, efficiency and simplicity of other Taco ECM circulators, while looking for more system feedback and control. The circulator features Bluetooth communication to a mobile app that provides real time control, diagnostics and reporting, such as installation history, power consumption, performance and runtime. The installer can select between multiple constant speed, proportional pressure, and constant pressure modes as well as activeADAPT™, Taco's self-adjusting proportional pressure mode.

Taco also touted its new 4900 Series magnetic dirt separator that provides dual-action separation for closed loop hydronic heating systems. The 4900 separator utilizes a powerful, 13,000 gauss magnet in addition to patented PALL ring technology, and is easily blown down by opening a valve at the bottom of the vessel. It is available sizes range from ¾" to 2" NPT and from ¾" to 1½" sweat.

Victaulic showcased a new grooved piping system designed exclusively for chlorinated polyvinyl chloride/polyvinyl chloride (CPVC/PVC) pipe. Created for use on Schedules 40 and 80 CPVC and PVC pipe, the system includes a full line of Installation-Ready couplings, fittings and pipe preparation tools.

Also at the booth was Victaulic's CG1100 Cut Grooving Tool. It can produce the PGS-300 cut groove into 2-12"/DN50 - DN300 Schedules 40 and 80 CPVC/PVC pipe. The tool is portable, lightweight, and available for purchase or rental.

Viega's MegaPress technology is now available for stainless steel pipe up to 4". Three new fitting



Installation-ready couplings from Victaulic.



The Climate 5000 Ductless Minisplit Heat Pump System is ideal for residential heating and cooling up to 48,000 Btuh.