Pressure Calibrator
Additel Corporation / BOOTH B4577
The Additel 760 series Automatic Hand held Pressure Calibrator takes portable pressure calibration to new levels. Weighing less than 5 lbs (2.2 kg), the ADT760’s innovative design contains a built-in pump, precision pressure sensor, internal controller and a large touch-screen color display. The 760-LLP is designed for low pressure calibration and comes with a built-in pressure module to ±30 inH2O (±75 mbar) and provides an accuracy to 0.05%FS. A great fit for calibrating DP pressure transmitters and much more!
MARKETS: Commercial, Industrial

Energy Recovery Wheels
Airxchange, Inc. / BOOTH C6661
New energy recovery wheels for custom and semi-custom air handlers. Multiple performance options allow you to choose your design priority (Low air pressure drop, high thermal energy performance, best recovered energy ratio)
MARKETS: Commercial, Industrial

Correction Capacitors
AMBER CAPACITORS LIMITED
BOOTH B4020
AMBER Series M1 are general purpose motor-run capacitors for single phase AC loads such as air conditioners and HVAC applications, fans, motors, HID lamps, etc. These capacitors are UL Approved for both US and Canada under File # E201792. These are manufactured to IEC 60252-1 (2013-06) standards. These capacitors are exported to many countries, and perform especially well in applications and areas with high working temperatures above 50°C or 122°F. They are individually packed in cardboard boxes and then packed in corrugated master cartons.
MARKETS: Commercial, Industrial, Institutional, Residential

Biodegradable Descaler
Apex Engineering Products Corporation
BOOTH B3780
For over 75 years, RYDLYME biodegradable descaler has been used to safely and efficiently dissolve tough mineral deposits such as water scale, lime scale, calcium, rust and even struvite. This descaler is fortified with a complex formula of wetting and penetrating agents that dissolve mineral deposits into the solution for quick and easy disposal!
MARKETS: Commercial, Industrial, Institutional, Residential

Connectors; Copper / Aluminum
AirSept Inc. / BOOTH C7266
AirSept’s Smart Splice 5-minute line repair is a fast, durable repair for copper, aluminum and other metal lines. Features include: HNBR seal sleeve dramatically expands the sealing surface area. High-tech anti-vibration tension ring resists vibration leaks. Ensures durability in rough service applications. 5-minute install with a wrench (no brazing, special tools or adhesives required). Compensates for out-of-round tubing. And Burst-tested to 2600 PSI.
MARKETS: Commercial, Industrial, Institutional, Residential

Insulated Door Test Port
Allegis Corporation / BOOTH C6416
The new Allegis test port allows easy, economical, resealable access to the air stream within an HVAC unit, for temperature or air flow measurement. The part is infinitely adjustable to varying door thicknesses and insulation styles. The sealing gasket prevents moisture or air from entering the unit. The glass-re-enforced nylon is UV stable and approved for contact with the conditioned air.
MARKETS: Commercial, Industrial, Institutional

Capacitor, Start Kit
AmRad Engineering / BOOTH B638
The Turbo Easy-Start “S” (TESS) is a 2-wire Universal low-loss metallized motor-start capacitor built with in potential relay, and hermetically sealed within the unit protecting it from the outside elements. The TESS replaces four of the common hard start kits that are currently on the market and has brass terminals that will never rust! Another VERY significant advantage occurs when used in conjunction with heat pumps; the TESS does not change capacitance (whereas electrolytic capacitors lose 20% of their initial value). 5-year unconditional warranty from installation.
MARKETS: Commercial, Industrial, Institutional, Residential

Scroll Chiller / Heater
ArctiChill / BOOTH C6563
The PolyTherm chiller/heater system is a high efficiency 6-pipe modular multi-mode bank of units (up to 10 modules) in which there is no cross mixing of fluid as in previous designs. The operational modes are cooling, heating, and simultaneous heating and cooling mode. Not only does this increase to extraordinary levels of combined overall cooling and heating efficiency, but it also saves significant use of an expensive toxic chemical (glycol). Combined heating and cooling efficiencies of 28 EER can be reached.
MARKETS: Commercial
Refrigerant Gas
Arkema Inc. / BOOTH B3655
With a GWP of only 0.75, Forane® 32 (HFC-32 or R-32) is one of the next generation low GWP solutions being implemented around the world. R-32 is a refrigerant gas for air conditioning with high capacity and zero glide. Forane® 32 is designed for mildly flammable refrigerants and as a replacement for R-410A (GWP 2088). It’s growing in consensus as the choice for new air conditioning units.

Brazing Alloys and Preforms
Bellman-Melcor LLC / BOOTH C7502
ChannelFlux brazing alloys are a patented family of alloys with flux contained in an open channel. ChannelFlux makes brazing easy! To ensure proper wetting and prevent oxide formation, the visible flux system in ChannelFlux releases in advance of the alloy flow. Visible flux prevents flux voids and the absence of powder flux means less opportunity for contamination of equipment and air. ChannelFlux is currently available in 8 different alloys and a wide variety of wire diameters. ChannelFlux is available in wire, rod, and preformed shapes.

Refrigeration Condenser / Gas Cooler
Blissfield Manufacturing / BOOTH B851
Maintenance free gas cooler and condenser solutions. Featuring small tube diameters ideal for CO2, Propane and other refrigerants. All steel continuous tube construction with compact tube pattern for optimal performance. High pressure rated copper connectors available. Designed for beverage applications, and suitable for commercial refrigeration equipment.

Vacuum Pump
C & D Valve, LLC / BOOTH B2254
C & D Valve’s TEP-SD offers a 2-stage dual voltage 5 CFM Vacuum Pump, featuring 1/2 HP motor, 1/4” and 3/8” flare intake fitting, integrated body structure, large sight glass, increased area for heat dissipation, low oil level, and force feed oil design. It includes a 1 year warranty.

MARKETS: Commercial, Institutional, Residential

Heat Pump VAF Systems
Calorek technologies / BOOTH C8030
The HAC Heat Pump/VAF allows you to simultaneously heat and air condition different rooms in your building thanks to the wireless thermostats in each of them. Key features include: Refrigeration compressor and components located in the interior unit, Variable heating and air conditioning capacity, depending on the number of zones in demand. The adaptation of our CVBM IVTM system to the inverter type compressor and the ECM type ventilation motor allows for non-bypass zoning. Electric auxiliary system available from 10 to 25 kW. Allows feeding as little as one zone at a time, both in heating and air conditioning demand, and insulated cabinet.

MARKETS: Commercial, Institutional, Residential

Evaporative Cooling Units
Cambridge Engineering Inc. / BOOTH C6611
The ESC-Series evaporative cooling unit is a semi-custom fabricated air handler that can be configured with direct, indirect and a combination of both indirect/direct (IDEC) evaporative cooling as well as heating options to meet specific usage and dimensional requirements. The evaporative air handler uses 100% outside air to provide tempered makeup air and whole building cooling. The ESC-Series unit is designed for large industrial or commercial buildings looking to provide better indoor air quality without the equipment or operating costs associated with mechanical cooling.

MARKETS: Commercial, Institutional, Residential

Rolling Piston Compressor
Aspen Compressor, LLC / BOOTH B3887
The Model T38, is a dynamically balanced, twin Cylinder, BLDC, Rolling Piston Compressor, 38cc displacement, Input Voltage 24, 48 or 9-60Vdc with an optional DC-DC converter. Suitable for compact and extremely efficient cooling systems operating on DC such as Air Conditioning, Refrigerators, Heat Pumps, Freezers, etc. on board hybrid or electric vehicles, trains, airplanes, small boats, RV’s, CABS for recreational vehicles and heavy equipment, or applications in remote locations off the grid operating on batteries and/or solar power.

MARKETS: Commercial, Industrial, Residential

Refrigerator
Best Inc. Limited / BOOTH C7730
Best Inc.’s refrigerants are used in both residential and industrial applications ranging from air conditioning and chillers to refrigerators and ice-box units. Options include: R22, R134a, R410a, R404a, R407c, R134a, R507, R245fa, R227ea, R32, R125, R413a, R600a, and R290.

MARKETS: Commercial, Industrial, Residential

Surface Disinfection System
Biozone Scientific, Inc. / BOOTH B964
Biozone Scientific International’s CCX-DMP is the easiest to install UVGI light system in the market. CCX-DM is UL Listed, CE marked, and features an advanced custom power supply with a lifetime warranty. The CCX-DM is a perfect fit for any size AHU FCLU, or RTU CCX-DMs high output UV system features an easy mounting system and quick connect that enables fast install, quick lamp replacement, water resistant PS, and customizable power input.

MARKETS: Commercial, Industrial, Institutional

Tankless Water Heater
Bradford White Water Heaters BOOTH C6463
The Infiniti™ K Series of tankless water heaters is the smarter way to go tankless. The Infiniti K uses STEADISSET™ Technology keeps water temperature consistent and virtually eliminates ‘cold water sandwich’ with NO internal buffer tank. It features SRT™ Scale Reduction Technology for better performance, longer operational life, and lower maintenance costs versus conventional tankless. The series delivers efficiency up to 96% UEF which helps maximize the financial benefits of choosing tankless.

MARKETS: Residential
Beverage Cooler Control Solution
Carel USA / BOOTH B2255
HEEZ is a fully integrated solution that encompasses the use of Carel’s technologies: variable capacity rotary compressor, BLCD inverter technology, electronic expansion valves, variable speed evaporator fans, and variable speed condenser fans. This encourages a fully modulating system that guarantees the best efficiency. Compared to traditional systems, beverage coolers equipped with HEEZ efficiently vary their cooling capacity so they can adapt to instant requirements, guaranteeing higher reliability, stability, less noise, and superior energy efficiency.
MARKETS: Commercial, Industrial, Institutional

Desiccant Dehumidifier
Climate by Design International
BOOTH BT660
The Dry Climate is a compact pre-engineered desiccant dehumidifier with stainless steel construction that performs in commercial and industrial applications. Dry Climate has multiple supply voltage options and features continuous modulating reactivation heaters to maintain peak efficiency. It is available with BMS communication, filter monitoring, VFD control, electric or gas reactivation heaters, cooling options, etc.
MARKETS: Commercial, Industrial, Institutional

Portable AC / Spot Cooler
ClimaTemp Portables Inc. / BOOTH B4280
ClimaTemp’s Portable spot cooler products were designed with the commercial and industrial customer in mind. These ClimaTemp portable spot coolers are used year round in a variety of cooling applications including offices, computer rooms, hospitals, labs, and any heat related applications that require cooling of people or equipment. All of our products were designed and built with the highest standards and quality parts. What makes ClimaTemp coherently different than its competitor is an understanding of what features are important to the rental industry customer and incorporating these features into its product line.
MARKETS: Commercial, Institutional

Centrifugal Chiller
Carrier / BOOTH B2619
The AquaEdge 19DV water-cooled centrifugal chiller with Greenspeed intelligence features a low Global Warming Potential (GWP) refrigerant. The breakthrough technology delivers on customer demands for excellent performance, leading efficiency and environmental responsibility. Improvements in compression technology and integration of Carrier’s Greenspeed intelligence variable-speed technology enabled Carrier to significantly improve its centrifugal full- and part-load efficiencies. The result is the high-efficiency AquaEdge 19DV centrifugal chiller that saves energy costs and reduces environmental impact.
MARKETS: Commercial, Industrial, Institutional

Air Filter
CMS Global / BOOTH B8664
The performance of installed air filters, whether terminal filters or pre-filters, directly determines how effectively harmful contaminants are prevented from entering the air-stream in process environments. To counter this CMS Global has a variety of UL certified Pre & High efficiency filters for providing clean air. This particular EXCELAIR HEPA HV is capable of high volume & high velocity. Mini pleat construction in metal / wooden board / plastic frame (ABS) is an answer to all high volume critical applications.
MARKETS: Commercial, Residential

Wine Cellar Cooling Systems
CellarCool / BOOTH C7705
CELLARCOOL: New Ultimate PLUS Ducted Package Systems designed to climate control wine cellars. Comes fully charged and ready to plug in and duct to the cellar. It offers flexible installation options, very quiet operations, and suitable for ambient temps up to 110 degrees. It features liquid bottle probe or use of a Smart Control.
MARKETS: Commercial, Residential

Coil Technology
Coilmaster Corporation / BOOTH B4439
We live in a world where it is expected we will accomplish more with less. At Coilmaster we have dedicated our research and development resources to produce a coil technology that allows a smaller fan motor to achieve the same cooling capacity. With our new oval tube technology, we are able to reduce the air-side pressure drop of coils in an innovative way, resulting in considerable savings for myriad establishments, from data centers and Universities and shopping malls.
MARKETS: Commercial, Industrial, Institutional

Duct Insulation
Covertech - rFOIL Insulation Products
BOOTH B3642
Big 8 duct insulation consist of two layers of polyethylene bubble pack reflective insulation connected by 2-inch wide spacers. Install the separate set of 2” spacer strips (included with the product) around the perimeter of the duct at every 2ft. interval followed by wrapping the Big 8 over the spaces. Big 8 duct insulation is suitable for wrapping rectangular or round duct work in HVAC Residential and Commercial applications. The Big 8 duct insulation is specially designed to reduce radiant heat gain/loss and control condensation.
MARKETS: Commercial, Industrial, Institutional, Residential

IAQ Diagnostic Tool
CPS Products, Inc. / BOOTH B3553
The IAQ SmartAir™ is a professional grade measuring instrument that helps HVAC professionals accurately identify IAQ issues in homes and buildings. The device is simply left on the counter during a service call and within 30 minutes it will analyze the air for any potential IAQ issues. It then walks the HVAC professionals through all of the necessary steps involved in accurately identifying and resolving IAQ issues, all in an easy-to-understand app on their phone or tablet.
MARKETS: Commercial, Institutional, Residential
IAQ SmartAir™
CPS Products, Inc.

Fittings
Conex Banninger / BOOTH C7567
> B MaxiPro is set to revolutionize pipe jointing in air conditioning and refrigeration applications. It is a robust press system which is quick and simple to use while providing a secure and permanent joint. Compared with traditional techniques, it significantly improves productivity through greatly reduced installation time and enhanced working flexibility.
MARKETS: Commercial, Industrial, Institutional, Residential

Circuit Breaker
CQC Electric LLC / BOOTH B160
CQC’s UL approved miniature circuit breaker/CCR260™, meets the UL489 standard with 120/240 VAC rated volts. It provides 1 pole, 2 poles and 3 poles, offers 10KA breaking capacity and is able to install with mounting of din rail or mounting with fast clip which allows function and protection in various electric HVACR environments.
MARKETS: Commercial, Industrial, Residential
CQC Electric LLC

Inventory Software
CUBE USA / BOOTH C507
Fleet inventory is the newest addition to our mobile app! This exciting feature allows you to always know where your parts are and how much inventory you have in each truck. We also added the ability to find parts by scanning the given part to eliminate the chance of choosing the incorrect item. CUBE will show the images associated with the select items.
MARKETS: Commercial
Residential HVAC System
Daikin North America LLC / BOOTH B3239
Daikin Fit™ is a smart HVAC system with matching condenser, controls, gas furnace and evaporator coil. Fit is engineered with high performing, quiet inverter compressors, and side discharge cabinet designs that are smaller, lighter, and quieter than traditional residential unitary outdoor condensing units. Available in 1.5 to 5-ton; Fit provides 17-SEER efficiencies with a Daikin swing variable speed inverter compressor. Furnaces and evaporator coils include horizontal and up-flow/down-flow configurations, with furnace efficiencies from 80-97% AFUE.
MARKETS: Commercial, Industrial, Residential

Indirect Water Heater
Diversified Heat Transfer, Inc. (DHT) / BOOTH C7631
The Diversified Heat Transfer (DHT) SuperPlate advanced plate-type boiler, water-fired water heater incorporates the company’s field proven PID controller with high-efficiency plate and frame or brazed plate heat exchangers to satisfy potable water heating needs in commercial and institutional environments. The packaged systems utilize simple, real-time load tracking coupled with responsive controls to maintain accurate hot water temperature under various load patterns.
MARKETS: Commercial

CO2 Suction Line Heat Exchangers
Doucette Industries, Inc. / BOOTH B1226
The SLHE CO2 Series includes 5 common sizes of suction line heat exchanger that improve system efficiency and reliability with 120/60 bar design pressure rating.
MARKETS: Commercial

Leak Detection
Dry All / BOOTH B3886
For the first time in the HVAC&R industry, Dry All - India and Spectroline - USA. have joined hands to incorporate leak detection fluorescent dye into steel filter driers at the manufacturing stage. This will help detect a leak in a few minutes with the help of a UV torch. This will save both time and effort for technicians.
MARKETS: Commercial, Industrial, Residential

Electronic Expansion Valve & Controller
DunAn Microstaq, Inc. (DM) / BOOTH C7443
The HC-MSEV USHC Retrofit Kit was developed for commercial HVAC&R systems with 10 to 25 tons of cooling capacity. The kit improves evaporator efficiency by controlling superheat to a target setting quickly and precisely. The complete kit - HC-MSEV valve, USHC superheat controller with integrated pressure transducer, and preprogrammed for 4 refrigerants (other refrigerants upon request), external thermistor, wiring harness for power/communications, and software with GUI - is a standalone, drop in replacement for a TXV.
MARKETS: Commercial, Industrial, Residential

Fabric Duct
Durkee America Inc. (NanoSox fabric ducts) / BOOTH C7417
DurkeeSx fabric air duct system is a revolutionary end air dispersion system. It replaces traditional ductwork, insulation, diffusers, and air valves with more even airflow, better energy efficiency, lower cost, easier installation, and maintenance. DurkeeSx provides the best value among the top quality product offerings, with the best product warranty in the industry.
MARKETS: Commercial, Industrial, Institutional

Differential Pressure Sensor
E + E ELEKTRONIK CORPORATION / BOOTH C5052
EE600 differential pressure sensors are dedicated for use in HVAC and building automation. They are ideal for measurement in ventilation & air conditioning systems or for filter monitoring. Besides measurement in the air, the devices can also be employed for all non-flammable and non-aggressive gases. The fully configurable sensor features four selectable measuring ranges and an optional graphic display. The Piezo-resistive sensing element ensures long-term stability and high accuracy.
MARKETS: Commercial, Industrial, Institutional, Residential

Air Purifier
Dust Free, LP / BOOTH B3681
The Dust Free Carbon Air Purifier cleans indoor air with a unique Carbon-UV light multi-stage technology. This proprietary technology specifically targets Volatile Organic Compounds (VOCs) as well as mold, mildew and germs that exist in indoor air. More than 2x’s more effective than traditional duct mounted air purifiers against VOC's.
MARKETS: Commercial

Leak Detection
NanoSox UR System
Durkee America Inc. (NanoSox fabric ducts)
Dust Free Carbon Whole Home Air Purifier
Dust Free, LP

Air Purifier
Dust Free, LP / BOOTH B3681
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MARKETS: Commercial

Heat Pump Chiller
Ecochillers, Inc. / American Chillers / BOOTH C5746
Ecochillers’ 4-in-one air cooled heat pump, heat recovery, water cooled, and inverter scroll chiller is able to cool water to 45°F and heat water up to 130°F.
MARKETS: Commercial, Industrial, Institutional, Residential

Axial Fan
ebm-papst Inc. / BOOTH C5819
AxiCool is a fan assembly used in evaporators and condensers that offers ideal distribution of cold air in cold storage under hygienic conditions. Water spray protection and smooth surfaces without visible screws deter dirt build up. Available in sizes 300mm - 800mm and available with an efficient EC motor which operates at various speed settings or with regulation by way of a linear interface, reducing operation costs. AxiCool is ready for plug & play installation.
MARKETS: Commercial, Industrial

Magnetic Filter
Eclipse Magnetics / BOOTH B143
Introducing BoilerMag BM/R – The Ultimate Filtration Solution. Now featuring 1” NPT threaded valves (1”2” NPT adaptors included). Protect your hydronics system from ‘black sludge’ with our tried and trusted patented magnetic technology which ensures that virtually 100% of iron oxide and scale is removed on the first pass. BoilerMag also features an automatic air vent which automatically releases trapped air to maintain heating efficiency. The BoilerMag is the best value option. Don’t go through the trouble of purchasing separate boiler filter components when BoilerMag offers all necessary components in one package.
MARKETS: Commercial, Industrial, Residential

Wireless Hydronic Balancing Kit
Dwyer Instruments, Inc. / BOOTH C5407
Dwyer’s Wireless Hydronic Balancing Kit, Series 490W, is the most accurate and easy to operate manometer on the market. The kit utilizes mobile technology to communicate via a Bluetooth connection with the transducers to monitor differential pressure and flow on up to three valves. By using wireless transducers and a versatile handheld, a single operator can monitor and balance a hydronic system in less time than traditional hydronic balancers.
MARKETS: Commercial, Residential

Dwyer Instruments, Inc.
Self-contained Refrigeration System

Embraco North America, Inc. / BOOTH C7431

Embraco’s Plug n’ Cool unit is a self-contained, easy maintenance refrigeration system, which requires no machine room. This product was specially designed for supermarkets, convenience stores, and professional kitchens in order to reduce energy consumption and allow for more internal space in stores. Plug n’ Cool complies with strict international standards for energy efficiency by utilizing environmentally friendly R290 gas. This unit is available in both water-cooled and air-cooled condensers.

MARKETS: Commercial

Variable Speed Heat Pump

Energy Saving Products Ltd. / BOOTH C6305

Introducing the ESP Series Variable Speed Heat Pump, available in 3 ton and 5 ton. The ESP Series uses less energy than a conventional heat pump by modulating the compressor/fan speed up or down to match load. Inverter Drive allows for capacity modulation as low as 20%. The Variable Speed Compressor allows for zoning with true efficiency, while greatly reducing noise. Side discharge design fits tight spaces and matches easily with our Hi-Velocity System or 3rd party air handlers.

MARKETS: Commercial, Industrial, Institutional

Programmable Controller

Eurotherm by Schneider Electric / BOOTH C5920

BACnet connectivity is now available on the Eurotherm EPC3000 Programmable Controller. With a high level of functionality and configurability, the EPC3000 offers ease of installation, commissioning and replacement. The precision controllers achieve the required stability, accuracy and repeatability and provides real-time indicators for efficient monitoring of process equipment effectiveness. The Eurotherm brand programmable precision controllers with Ethernet communications help deliver an efficient and secure process, maintaining high standards of product and helping to ease cybersecurity concerns.

MARKETS: Commercial, Industrial, Institutional

Impeller Fan

Fans-Tech Electric Co., Ltd. / BOOTH B531

The new high efficiency, high flow backward inclined fan is designed for applications such as energy recovery, data center cooling, roof-top units and dehumidifiers. It contains an EC motor and includes impeller from 450 to 630 mm. The groundbreaking impeller design provides higher efficiency with lower noise.

MARKETS: Commercial, Industrial, Institutional

Field Service Management Software

Fieldpoint Service Applications / BOOTH 84765

Fieldpoint has delivered a field service software solution to the HVAC/R industry for more than 20 years. Now offering an organization at any size the ability to increase productivity, manage their work orders, manage preventative maintenance contracts and installation projects, all from within one flexible portal. With built-in integrations to your favorite ERP, CRM and accounting systems, Fieldpoint is an end-to-end solution with mobile app capabilities that will power your service delivery.

MARKETS: Commercial, Industrial, Institutional

Wine Cellar Refrigeration Units

ESP Company / BOOTH B3986

The BCS series offers full temperature and humidity control of residential and commercial wine cellars. Ceiling mount and ducted units are available for cellars up to 3000 cubic ft. All BCS units are split systems with air cooled or water cooled condensers available.

MARKETS: Commercial, Residential

Refrigeration Hoses & Fittings

Flexin Group SRL / BOOTH B242

Frigoflex® Hose & Fittings allows maximum flexibility and time saving in the installation process. The time saving turns into a cost saving up to 30%. Our Frigoflex® system is safe because no welding processes are needed and allows overnight change to the layout of the system units. Our product portfolio also includes Klimaklamp which is the most innovative and advanced way to carry out repairs on refrigeration systems and to make installations without brazing procedures.

MARKETS: Commercial

Whole House Dehumidifier

General Filters, Inc. / BOOTH B1538

General Filter’s new DH75 & DH100 feature an obliquely angled touch-screen LCD control. In addition, the units can be controlled from almost anywhere with the “GeneralAire® Wi-Fi APP” (found in Google Play and your smart device’s APP Store). Rich in features, the models also include a low temperature shut off, a fan-only function, a filter life hour indicator, integrated carrying handles, adjustable feet, and other features that make these units state-of-the-art. The units also carry a 5-Year Warranty.

MARKETS: Residential

Air Cooled Chillers

Geoclima USA, Inc. / BOOTH B369

Geoclima exhibits solutions for both high efficiency and eco-sustainability in the changing American market and its growing HFC regulations. TMA 12300B CM features ultra efficient Turbocor technology, is HFO ready, has cylindrical condensers, and cascade evaporators. The innovative condenser layout provides more exchange surface which results in a boost in EER up to 15%. The TMA 12280A ES features ultra efficient Turbocor technology is HFO ready, and has an automated evaporative system for hot climates for boosted efficiency.

MARKETS: Commercial, Industrial, Institutional

Fan Coil Connection Kit

Giacomini USA, Inc. / BOOTH C7900

Giacomini KRD0 Connection Kits with integrated Bypass provide complete solution for connection of heating and cooling lines from riser to fan coil or other hydronic device. Integrated bypass allows convenient flushing of system after installation and maintenance. Units provide integration of all necessary components to complete installation including automatic pressure reducing valve, isolation valves, filter, and temperature control valve. Units are fully insulated to further assure reliability and engineering conformance.

MARKETS: Commercial, Institutional, Residential

Cooling Tower Cleaning Solution

Goodway Technologies Corp. / BOOTH B1555

The EPA-registered BioSpray® Tower kills 99.99% of Legionella pneumophilia when it is properly applied to hard non-porous surfaces like cooling towers. This product is designed to be a part of a regular maintenance program or emergency surface disinfection program. BioSpray Tower is a 100% biodegradable surfactant and is a labor saving no-rinse formula.

MARKETS: Commercial, Industrial, Institutional

Condensate Water Pump

Gotec S.A. / BOOTH C7840

FREZY is a new condensate water pump for wall units up to 5 tons. Pumps are designed to be installed underneath the mini split. With a new detection system, it’s field effect and a world premiere. Pump is very silent, easy to install and easy to service. A Swiss made product.

MARKETS: Commercial, Institutional, Residential

Energy-Saving Refrigeration Systems

Embraco North America, Inc. / BOOTH C7431

Embraco’s Plug n’ Cool unit is a self-contained, easy maintenance refrigeration system, which requires no machine room. This product was specially designed for supermarkets, convenience stores, and professional kitchens in order to reduce energy consumption and allow for more internal space in stores. Plug n’ Cool complies with strict international standards for energy efficiency by utilizing environmentally friendly R290 gas. This unit is available in both water-cooled and air-cooled condensers.

MARKETS: Commercial

Energy Saving Products Ltd. / BOOTH C6305

Introducing the ESP Series Variable Speed Heat Pump, available in 3 ton and 5 ton. The ESP Series uses less energy than a conventional heat pump by modulating the compressor/fan speed up or down to match load. Inverter Drive allows for capacity modulation as low as 20%. The Variable Speed Compressor allows for zoning with true efficiency, while greatly reducing noise. Side discharge design fits tight spaces and matches easily with our Hi-Velocity System or 3rd party air handlers.

MARKETS: Commercial, Industrial, Institutional

Fans-Tech Electric Co., Ltd. / BOOTH B531

The new high efficiency, high flow backward inclined fan is designed for applications such as energy recovery, data center cooling, roof-top units and dehumidifiers. It contains an EC motor and includes impeller from 450 to 630 mm. The groundbreaking impeller design provides higher efficiency with lower noise.

MARKETS: Commercial, Industrial, Institutional

Fieldpoint Service Applications / BOOTH 84765

Fieldpoint has delivered a field service software solution to the HVAC/R industry for more than 20 years. Now offering an organization at any size the ability to increase productivity, manage their work orders, manage preventative maintenance contracts and installation projects, all from within one flexible portal. With built-in integrations to your favorite ERP, CRM and accounting systems, Fieldpoint is an end-to-end solution with mobile app capabilities that will power your service delivery.

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MARKETS: Commercial, Industrial, Institutional
Air-to-Water Heat Pump
HotSpot Energy/Chiltrix / BOOTH B4343

The Chiltrix CX34 is a DC inverter air to water heat pump with geothermal-like levels of performance. This R410a reverse cycle chiller offers record-setting AHRI certified performance, provides cooling, low ambient heating, and/or hot water, and is compatible with ducted air handlers, room fan coils, and/or in-floor radiant. The CX34 offers optional dynamic humidity control and integrated dynamic variable backup heat.

MARKETS: Commercial, Residential
Chiltrix CX34
HotSpot Energy/Chiltrix

Flow Meter
Guangzhou Basic Intelligence Technology Co. Ltd. / BOOTH C5053

The LoRa ultrasonic water meter uses ultrasonic time difference algorithm technology for continuously measuring, recording and displaying the volume of water flowing through the flow sensor. Key features include: Minimal pressure loss, Can be installed in horizontal or vertical positions, Not influenced by medium impurities, chemicals or magnetic interference, No moving parts, No wear and tear and accuracy of measurement is not influenced by the time duration of use, High communication speed, long communication distance and large communication capacity, and Wireless transmission with no need for punching and wiring, making for simple installation and debugging.

MARKETS: Commercial, Industrial, Institutional, Residential
Guangzhou Basic Intelligence Technology Co. Ltd.

Valve Installation Kit
Highside Chemicals, Inc. / BOOTH B3439

This technological break through makes a very difficult installation easy. No fire needed. No solder. No gas required. This process eliminates burned electronics. This process stops the use of fire prevention products and wet rags. No need for fire cloth or chemical fire prevention. Simply ensure the correct fit, clean the male and female piece of all oil, sand prepared joint, properly apply the TXV and Reversing Valve chemical to all male and female parts, install the parts and let set for 20 minutes. That’s it!

MARKETS: Commercial, Industrial, Institutional, Residential
TXV and Reversing Valve Installation Kit
Highside Chemicals, Inc.

Valve

Heat Pipe Technology, Inc. / BOOTH B4229

HRM V Dynamic Season Offset (DSO) is a unique technology intended for applications where two air streams are not in close proximity or other design consideration. This technology gives the design engineer a lot of flexibility and more importantly ZERO cross contamination. Unlike water run arounds, it comes with higher effectiveness, no moving parts, and better efficiency. Applications include laboratories, healthcare facilities, industrial processes, etc.

MARKETS: Commercial, Industrial, Institutional
Heat Pipe Technology, Inc.

Electric Air Conditioner
Gree Electric Appliances, Inc. of Zhuhai

Ultra Heat Series Air Conditioner is capable of 100% nominal heating capacity at outdoor ambient temperature of -40F. 80% nominal heating capacity can be provided at outdoor ambient temperature of -22F. The unit can operate stably at outdoor ambient temperature of -31F. Meanwhile, Ultra Heat Series Air Conditioner can be matched with long-distance monitor to achieve long-distance intelligent control.

MARKETS: Commercial
Ultra Heat Series
Gree Electric Appliances, Inc. of Zhuhai

Refrigerant
Honeywell International Inc. / BOOTH C6509

Solstice N41 (R-466A - provisional) is the first nonflammable, reduced global-warming-potential (GWP) refrigerant designed to replace R-410A in stationary residential and commercial air conditioning systems. Solstice N41 offers an excellent capacity and efficiency match for R-410A and is the only R-410A replacement that offers the combination of nonflammability with a GWP 60% lower than R-410A.

MARKETS: Commercial, Industrial, Residential
Solstice N41
Honeywell International Inc.

Air Conditioner
Gree Electric Appliances, Inc. of Zhuhai

MARKETS: Commercial, Industrial, Institutional, Residential
BOOTH B639
Gree Electric Appliances, Inc. of Zhuhai

Hot Melt Adhesive Dispensing Systems
Hot Melt Technologies, Inc. / BOOTH CB041

HMT ProFlex Hot Melt Adhesive Dispensing Equipment is used to dispense hot melt adhesives for a variety of product assembly and packaging applications. Foaming insulation, insulation attachment, duct liner attachment, seam sealing, box closing etc. are many of the applications that use hot melt adhesive. Hot Melts are 100% solid thermoplastic materials that replace waterbase and solvent base adhesives with safe, fast and reliable bonds.

MARKETS: Commercial, Industrial, Institutional, Residential
ProFlex Series
Hot Melt Technologies, Inc.

Waste Heat Recovery Unit
Heatac, Inc. / BOOTH B2047

Heatac designs and manufactures industrial heating systems including waste heat recovery systems. These systems are an efficient way to use exhaust heat from a variety of processes like gas powered turbines or other equipment that generates large volumes of heat that would otherwise be lost to the atmosphere. The heat is captured through a heat exchanger and can be used for other processes like climate control. Each system is custom designed to meet your needs.

MARKETS: Commercial
Heatac, Inc.

Energy Recovery
Heat Pipe Technology, Inc. / BOOTH B4229

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MARKETS: Commercial, Industrial, Residential
Solstice N41
Honeywell International Inc.

Safety Equipment
Graphic Products / BOOTH C7771

Graphic Products DuraLabel Toro Exceeds HVACR Needs. DuraLabel Toro is a high-performance, portable label and sign printer using an expansive list of 40+ industrial strength supplies for countless applications such as pipe marking, electrical labeling, facility signage, SS, and more. HVACR professionals can boost efficiency with this intuitive system. Toro features a 9” color touchscreen, keyboard, and built-in label design software that allows users to easily customize labels and signs compliant with industry standards.

MARKETS: Industrial
Graphic Products

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MARKETS: Commercial
Heatac, Inc.

Mini Tank Water Heater
HTP Comfort Solutions LLC / BOOTH C7343

The versatility of the HTP high efficiency Everlast Mini Tank allows it to be used for a small amount of water or to be connected in line with a main water heater for instantaneous hot water. Installation is simple and all that is required is a cold water line and an electrical connection to install this water heater at the sink. Available in 2 1/2 & 4 gallon capacities and can be wall or floor mounted.

MARKETS: Commercial
Everlast Mini Tank
HTP Comfort Solutions LLC

2x2 Supply Lay In
HaVACo Technologies, Inc. / BOOTH C5952

HaVACo’s Quick Connect grilles, registers, and diffusers are increasingly popular with restaurants, hotels, convenience stores, hospitals, etc. all over the country. Aside from the unrivaled durability of ABS Plastic, both products feature the patent pending Quick Connect designs which allow for fast and simple removal of the grille and/or diffuser for complete and efficient maintenance and servicing. All of the 2 x 2 Lay Ins are available in Black and White and will not rust, corrode, discolor, or fade. The 2 x 2 Supply is available with 3 Cone, Plaque, or Bordered Diffusers with various pre-molded bolt sizes. An Insulated Back is also available with our 2 x 2 Supply. The 2 x 2 Return is available with either a Louvered or Egg Crate Grille and features a Bull-Eye Back that can easily be customized in the field from 6-16” inlets.

MARKETS: Commercial
HaVACo Plastic
HaVACo Technologies, Inc.

Head Pressure Control
Hoffman Controls Corp. / BOOTH C5514

The new 800 series head pressure controls for ECM condenser motors. These controls receive sensor input from the liquid line and either modulate or cycle the motor in low ambient to regulate head pressure. The 800 series controls are not refrigerant specific. Adjustable output signals are PWM, 0-10 vdc or 10-0 vdc. Set-points are selectable.

MARKETS: Commercial, Industrial, Institutional, Residential
Hoffman Controls Corp.

Hoffman Controls
800 Series ECM
Hoffman Controls Corp.

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MARKETS: Commercial, Industrial, Institutional, Residential
TXV and Reversing Valve Installation Kit
Highside Chemicals, Inc.
**Pre-insulated Steel Pipe**

Inco Peninsular SA de CV / BOOTH C5816

Inco Peninsular offers a line of pre-insulated piping for the conduction of chilled and hot water. Its carrier pipe is made of black steel ASTM A-53 with seam ERW (Type E) or seamless (Type S), Grade B, schedule 40, and plain or grooved ends. Sizes available from 1” through 35”, with a thermal insulating of rigid polyurethane foam, leak detection and HDPE smooth outer protection.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Digital Vacuum Gauge**

ITE / BOOTH C6848

ITE is pleased to offer from stock the new digital vacuum gauge ITE-5SV. The ITE-5SV is a FAST response digital vacuum gauge, has a much larger display than the previous model and the instrument is self-calibrating each time it is switched on. Its sensor design makes it highly resistant to contamination and easy to clean. It features include analog bargraph, ultra-Fine Resolution, auto-shut-off, display updates every 1/2 second, backlight LCD, built-in hanger, and low battery indicator.

MARKETS: Commercial, Industrial, Institutional, Residential

**Spark-Proof Vacuum Pump**

JB Industries, Inc. / BOOTH B1139

DV-200N-250SP spark-proof vacuum pump features a dual voltage motor with switch and interchangeable power cord for use with Class A2L refrigerant gases. Advantages includes 2-stage direct drive with 1/2 HP capacitor start and thermal overload protection; Heavy-duty finned aluminum housing; brass fittings; stainless steel valve and splashguard; 1/2” NPT; break-resistant exhaust handle with lift ring; 1/4”, 3/8” or 1/2” intake tee; 15 micron vacuum rating; Blank-off isolation valve and gas ballast; Field repairable; and a 2-year warranty.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Duct Liner Insulation**

Johns Manville / BOOTH B2261

R-12 Linacoustic® RC is the first ever single-layer, flexible, fiberglass R-12 ductliner. It is specifically designed to meet the latest IECG code requirements for insulating ducts in exterior and unconditioned spaces. The glass-mat surface is coated with Pemacote®, an antimicrobial coating that helps protect the airstream surface. The unique manufacturing technology ensures that the fiberglass core processes consistently and efficiently on both RotoZip machines and water jet cutters.

MARKETS: Commercial, Institutional, Residential

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**Magnetic Bearing Centrifugal Chiller**

Johnson Controls, Inc. / BOOTH B1617

The YORK® YZ Magnetic Bearing Centrifugal Chiller is the first chiller fully optimized for ultimate performance with a next generation low-global warming potential (GWP) refrigerant while delivering industry-leading real-world energy efficiency. Built for superior efficiency at all design conditions, the YZ chiller can provide unprecedented centrifugal-chiller performance as low as 0.1 kW/ton and utilizes cold tower water as low as 40°F. The YZ chiller offers lower cost of ownership and a new definition of sustainability.

MARKETS: Commercial, Industrial, Institutional

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**Portable Air Conditioner**

Kwikool Portable Cooling Systems / BOOTH B2174

The BioKool is the newest Kwikool portable cooling system that combines Air Purification with Air Conditioning. The BioKool uses the air cleaning power of High Efficiency Particulate Air (HEPA) 99.999% filters and UV light technology. This means that you are now able to clean 99.999% of all particles greater than 0.3 microns in diameter, while cooling the air at a rate of 13,800 Btu-per-hour. The model KBIOT411 provides portability, efficiency, air cleaning, and cooling. This product is the first of its kind.

MARKETS: Commercial, Industrial, Institutional

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**Heat Recovery System**

LG Electronics USA, Inc. / BOOTH C7209

LG’s award-winning Multi V S is a compact, 5-ton heat recovery outdoor unit that provides zone control for up to twelve indoor units and only requires single-phase power. In the smallest footprint available for a heat recovery system, the Multi V S 5-ton is the ideal solution for homeowners and business owners looking to increase their energy efficiency and lower their energy costs without sacrificing comfort.

MARKETS: Commercial, Residential

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**HVAE System**

M L Filters / BOOTH B375

Self-sealing longer lasting Merv 8 panel filters perform 3X greater than pleated box filters. HVAC systems stay clean and healthy with our model PSG8 Merv 8 Panel Filter.

MARKETS: Commercial, Industrial, Institutional

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**Mini Split Air Conditioning Installation Accessory**

Marketair, Inc. / BOOTH B3387

SuperSleeve is a sturdy PVC wall sleeve for insulated linesets, electrical/communications cabling and condensate drain hose. SuperSleeve saves time, money and labor when retrofitting any brand or model of wall-mounted ductless mini-split evaporators in residential and commercial buildings. The patent-pending, SuperSleeve eliminates the need for a second jobsite technician or a temporary support bracket to hold the evaporator in place during a retrofit installation. The 3-inch-diameter (I.D.) (75-cm) SuperSleeve is flanged on both ends for a tight, secure fit and telescopes from 6 to 12-inches (15 to 30-cm) to accommodate most wall thicknesses.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Smart Switch Controller**

Mars Air Systems / BOOTH B1214

Mars Air Systems’ SimpleLink™ is a BACnet capable air curtain controller. Features include: pre-set and fully customizable programs, an integrated thermostat, 24/7 timer, maintenance schedule alerts, adaptive unit on/off time delay, fan speed and heat control settings and factory integrated temperature control sensors. SimpleLink™ is compatible with all Mars’ models and features a high-resolution 5" color LCD display. There is a built-in diagnostic mode and the controller can be adjusted to display in either English (IP) or Metric (SI) readings.

MARKETS: Commercial, Industrial, Residential

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**Free Air Cooling System**

Marvair, Division of Airxcel / BOOTH B1554

The Marvar DAC 2000 (Door Air Cooling) and WAC 2000 (Wall Air Cooling) units are direct air cooling units designed to provide free cooling for telecom shelters and cabinets. The DAC is designed for installation on a door and the WAC is designed to be mounted on a wall in place of a wallmount air conditioner unit and includes a door-mounted exhaust damper.

MARKETS: Commercial, Industrial
**Geothermal Pump Station**

**Melinck Corp / BOOTH B3582**

Manifest is the first ever pre-engineered pump station for commercial Geothermal HVAC systems that includes all your necessary hydronic components, making selection, specification, and installation more streamlined and easier than ever. The patented automatic GHX Bypass feature closes the connection to the ground loop when conditions are right, ensuring optimal efficiency of the system, reducing pump energy by 50-75%, while engaged, and reclaiming heat from different building zones.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Extruded Heat Transfer Plates**

**MrPex® Systems / BOOTH B2176**

MrPex Systems offers a new style extruded aluminum heat transfer plate for 3/8" or 1/2" PEX tubing in the same plate. DuoTrack plateau is 48" long x 3.75" wide with pre-punched holes featuring a double groove for two sizes of PEX tubing. This reduces inventory, space and cost. DuoTrack plates are low mass and have a faster response time, higher output, and lower water temperature requirement as compared to past heating without plates.

MARKETS: Commercial, Industrial, Institutional

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**Refrigerant Gas Sensor**

**N.E.T. S.r.l. / BOOTH CS567**

When it comes to refrigerant leak detection, the predominant sensing technologies are undoubtedly Non-Dispersive Infrared (NDIR) and Metal-Oxide Semiconductor (MOS). NDIR is the most performing technology, but its cost has so far prevented a widespread use in light commercial and residential applications, where MOS has remained the predominant choice. This is about to change with the new IREF LITE series from N.E.T. – a complete line of NDIR sensors for refrigerant gas detection set to hit the market at an astounding price. The new IREF LITE series from N.E.T. provides a highly sensitive and accurate detection performance in the HVAC-R market, improving occupant safety and lowering cost-of-ownership.

MARKETS: Commercial, Industrial, Residential

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**Mini-Split Maintenance Bag**

**Nu-Calgon / BOOTH C6725**

Clean Guard and Clean Guard XL are reusable maintenance bags specifically for use by HVAC contractors to clean wall-mounted mini-splits with Nu-Calgon cleaners/disinfectants when the indoor coil and blower require service. Clean Guard installs in seconds with its use of an industrial grade elastic collar that simply and automatically adjusts around the indoor unit. The device provides 360-degree coverage to protect overspray on the walls, an integrated eight-foot drain line and heavy duty design to allow its reuse.

MARKETS: Residential

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**Evaporator**

**Onda USA LLC / BOOTH CS5941**

The Hybrid Film Evaporator is a new kind of shell-and-tube evaporator designed to considerably reduce the refrigerant charge in the system while maintaining high efficiency under any load condition. The Hybrid Film Evaporator combines the benefits of the pool boiling reliable performance and the falling film evaporator low refrigerant charge. The core design belongs to Onda’s IPR and it is patent pending. The Hybrid Film Evaporator has been validated with turbo (no oil) and screw compressor (with oil).

MARKETS: Commercial, Industrial, Institutional, Residential

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**Self-Cleaning Water Filter**

**Orival Water Filters / BOOTH B7167**

Saving precious HVAC water, the new self-cleaning Orival Model ORZ cooling tower filter wastes only about 1/3 as much water as conventional filters. Models are available with 2-24 inch connections and greatly increased screen areas. Screen elements come in either single layer woven or multi-layer 316LSS construction. Filtration degrees go from 5 to 3000 microns.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Gas Detection Sensor**

**Nemoto Sensor Engineering Co. Ltd. / BOOTH C7867**

The NE4-HCHO-S is an electrochemical gas sensor with 3 electrodes for the detection of Formaldehyde (C2H4O) in the range 0-10 ppm, resolving down to a lowest detectable limit of 0.02 ppm. Exhibiting high performance with long-term stability, this compact (204mm dia) sensor is suitable for portable Gas Detection Instruments or Fixed Gas Detection heads. Nemoto’s porous electrode technology enables accurate gas detection with high sensitivity. The mechanical design of the sensor gives optimum gas diffusion characteristics and the hermetically sealed enclosure prevents costly electrolyte leakage.

MARKETS: Commercial, Industrial, Residential

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**EC Axial Fan**

**Ningbo Sino-Resource Imp. & Exp. Co., Ltd. / BOOTH B4347**

EC axial fan has greatly improved working efficiency and ideal designs for air conditioning, purification and refrigeration industries.

MARKETS: Industrial

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**Hybrid Adiabatic Cooling System**

**Nimbus Advanced Process Cooling / BOOTH C7964**

VIRGA X3™ by Nimbus® is engineered to bring adiabatic cooling to customers with limited space by providing all the cooling capacity of Nimbus’ VIRGA II® systems in 50% of the footprint—resulting in up to two times the heat rejection previously available. VIRGA X3 saves as much as 85% of the water required by traditional cooling towers and uses 50-70% less water than evaporative fluid coolers that require evaporative media pads in the cooling process.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Screw Compressor**

**Micro Control Systems, Inc. / BOOTH B1169**

Hanbell introduces the new RE Series screw compressors. They are optimized for R134a refrigerant and compatible for use with VFDs. Their compact footprint, robust build and capacity options ranging from 50 to 220 tons make them a cost-effective solution for retrofit projects.

MARKETS: Commercial, Industrial, Institutional

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**Duct Wrap**

**Morgan Advanced Materials / BOOTH B1355**

Our FireMaster FastWrap XL is an optimized grease and air ventilation duct enclosure system. A contractor friendly installation solution as butt joints, all seams, staggered on both layers and no overlaps. UL listed for rectangular and round. The original and still the best tool wrap insulation in the market.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Refrigerant Analyzers**

**Neutronics Inc. / BOOTH B1165**

With so many new refrigerants in the industry how do you know what you are working with? Neutronics has refrigerant analysis solutions for you. Our Ultima ID Pro RI-700H is the most advanced refrigerant analyzer in the market and provides fast and accurate analysis of refrigerant in cylinders and systems. Get the job done right an analyze before you recover, consolidate or use refrigerant. Take the uncertainty out of the job with a refrigerant analyzer.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Heat Recovery**

**Manifest Pump Station**

Our FireMaster FastWrap XL is an optimized grease and air ventilation duct enclosure system. A contractor friendly installation solution as butt joints, all seams, staggered on both layers and no overlaps. UL listed for rectangular and round. The original and still the best duct wrap insulation in the market.

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MARKETS: Industrial
Smart Thermostat
OWON Technology inc. / BOOTH C5466
Supports 2H2C multi-stage conventional system and heat pump system, one-touch AWAY® button to save energy, 4-period and 7-day programming through the device or App, multiple HOLD options, automatic heating and cooling changeover, fan cycle mode to periodically circulate air for comfort, compressor short cycle protection delay, and a failure protection.

MARKETS: Commercial, Residential

Plug and Plenum Fans
PEERLESS BLOWERS / BOOTH C6104
SYNERGY SERIES is the first high efficiency plug and plenum fan series for static pressure increases up to 10” WG (AMCA classes I through III). Three space-saving, plug & play models are perfect for the energy-efficient retrofit of any air handling unit or custom-built ventilation applications. The Synergy Series Direct Drive Plenum and Plug Fans combine American made engineering with the latest in European impeller diffuser technology to create the most efficient plug and plenum fans on the market. The Synergy Fans achieve the highest levels of efficiency while offering maximum controllability, long reliability and quieter operations. With wheel sizes ranging from 14” to 22” and motor options from 5 to 20 horsepower, the Synergy Series Fans can operate over 23,500 cfm and up to 10 inches WG of static pressure.

MARKETS: Commercial, Industrial, Institutional

Refrigeration Valve
P.E. Valve / BOOTH B3785
P.E. Valve has been manufacturing refrigeration valves since 1959. We have developed a new actuator driven valve series with smooth operation (No pipe surge) and a manual override that does not require pressure for movement.

MARKETS: Commercial, Industrial, Residential

Pre Insulated Copper Pipes
PDM US, LLC / BOOTH B752
Gelcopper™ pre-insulated copper rolls perfectly fits every air conditioning system, such as ductless mini-splits, VRF, heat pumps and unitary systems. Available in 50 ft and 164 ft single rolls, lreset configuration or twingle (both lines attached to each other) with 1/2”, 3/4” or 1” insulation thickness. Gelcopper™ are the only copper coils in the industry to be UL2723 classified for ASTM E84 and Gelcopper™ are the only copper coils in the industry to be UL2723 classified for ASTM E84 and ASTM E84 and meet UL94V-0 UL94V-0 UL94V-0. The Synergy Series or twingle (both lines attached to each other) with 1/2”, 3/4” or 1” insulation thickness.

MARKETS: Commercial, Industrial, Institutional, Residential

Industrial Burner
Preferred Utilities Manufacturing Corporation / BOOTH B3267
The Galaxy burner line is based on the principle of “lean premix combustion”. It is capable of achieving ultra low NOx emissions without the use of flue gas recirculation (FGR). This burner, that operates without a fiber metal mesh head or wasteful air filters, and reduces up to 60% electric consumption, is dual fuel, and can switch between gas and oil firing in less than 3 minutes.

MARKETS: Commercial, Industrial, Institutional

Pipe Insulation
PTI, LLC (subsidiary of HSM) / BOOTH C8061
PTI now offers coated (jacketed) PE foam pipe insulation for every application concerning air-conditioning such as ductless, mini-split, heat-pumps, ducted units, unitary and VRF systems.

MARKETS: Commercial, Industrial, Residential

Line Sets
PTubes Inc. / BOOTH C8015
Individual pre-insulated copper pipe suitable for every application concerning air-conditioning such as ductless, mini-split, heat-pumps, ducted units, unitary and VRF systems.

MARKETS: Commercial, Industrial, Institutional, Residential

Fan Wheel
pLlc / BOOTH C6104
The new Dlight - welded impeller complements the plunger D-Series diffuser fan wheels for unhouesd applications. It offers high ventilation system performance suited for applications that require static pressure increase of 1000 to 1500 Pa (AMCA Class I). The aluminum Dlight - welded is available with variable pitch circle diameter or a lightweight Taperlock hub. It is compatible with any AC / EC motor making it perfectly suitable for extremely compact plug fan designs in both built-up or retrofit air handling units.

MARKETS: Commercial, Industrial, Residential

Hydrocyclone Separator Package
Puroflux Corporation / BOOTH B2465
Puroflux’s PF-64 package systems are designed specifically to remove dirt, sand, silt, precipitates, and suspended solids from process fluids. When applied with cooling tower basin sweeper piping, Puroflux PF-64 packages can significantly reduces energy consumption, chemical use, fouling of equipment, and routine maintenance among other benefits.

MARKETS: Commercial, Industrial, Institutional, Residential

Air-Cooled Condensers
Rahn Industries Inc. / BOOTH B2065
Rahn Industries direct air-cooled condensers are available in 5 to 50 ton models. Rahn remote condensers offer low profile design, multi-circuiting direct drive fans, isolated fan cells, fan cycling head pressure, control board with or without transform and internal dividers fan cells. Protective coatings are available.

MARKETS: Commercial, Industrial, Institutional

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MARKETS: Commercial, Industrial, Residential

Coil Coating
RectorSeal, LLC / BOOTH C6863
GulfCoat™ Blue and Clear corrosion resistant coatings are specifically designed for the protection of HVAC coils and components. GulfCoat™ Contractor Series coatings are formulated to improve adhesion, moisture resistance, UV protection and corrosion resistance. The product can be applied on-site or at your premises after HVAC units have been manufactured and installed.

MARKETS: Commercial, Residential
Coil Cleaners

Refrigeration Technologies / BOOTH B4417

Viper Aerosol is a potent degreasing compound that does not contain any hazardous ingredients or give off toxic fumes. Viper Heavy Duty is a concentrated version of our popular Viper aerosol product. Both can be used on condensers or as a re-useable unlike the traditional cans.

MARKETS: Commercial, Industrial, Institutional, Residential

Energy Recovery Ventilation System

RenewAire LLC / BOOTH B3567

With growing demand for smaller, more flexible and advanced technology units, RenewAire introduces the Simeline (SL) Series ERV. The Simeline is compact, fits into tight spaces, is adjustable to a specific point by one CFM increments to vary supply/exhaust airflow and can operate continuously at that airflow with boost mode for temporarily max airflow. It’s perfect for high-rise condos, apartments, town homes, single family homes and compartmentalized commercial spaces with minimal bulkhead and ceiling space.

MARKETS: Commercial, Industrial, Institutional, Residential

UV Air Treatment System

Respicaire / BOOTH B4575

The Respicaire MoldMiser Max Germicidal UVC Air Treatment System features a unique dealer communication LCD module that is field programmable. Dealers can personalize their contact information and the system will prompt consumers to contact dealers annually for service & replacement parts. It provides dealers with modern in home advertising that works 24/7- 365 days a year. A great addition to the IAQ family of product solutions from Respicaire.

MARKETS: Residential

Self-Cleaning Ionizer

RGF Environmental Group, Inc. / BOOTH B561

The Clear Sky MS is designed as a low-cost, maintenance free treatment option for mini-split air treatment. The Clear Sky MS produces high concentrations of both positive and negative ions that will reduce bacteria, mold and particulates. The Clear Sky MS uses RGF’s patent pending continuous self-cleaning technology which utilizes ultra-sonic energy coupled with induced oscillations targeted directly to the carbon ion emitters. The Clear Sky MS is a 100-277 VAC input unit that attaches directly to the top of the mini-split unit. It’s small size, easy installation, and low cost make it an ideal alternative to more expensive air purification systems. The MS unit is designed to accommodate air flows from standard mini-split units.

MARKETS: Residential

Mini Condensate Removal Pump

Sauermann NA / BOOTH C6525

The compact, sleek design of the Omega Pack is the ideal choice for a convenient under the mini-split unit installation. The included S-20 pump provides high performance pumping capacities, yet with ultra quiet operation. Versatility to remove the Sr-20 allowing for an in-unit installation; Left or right side mounting; Capable of pump up to 5 gph; 33” max discharge head; and suitable for units up to 55 tons.

MARKETS: Commercial, Industrial, Institutional, Residential

Programmable Logic Controller

Schneider Electric / BOOTH C6643

The new complete line of Schneider HVAC/R controls for small to large machines offer the most innovation for the least cost. For the HVAC/R OEM, position your manufactured machines as innovative and competitively priced for today’s market with the new complete line of M7T & M72 HVAC/R Controllers. Differentiate your manufactured machines in the market and reduce your manufacturing costs through connectivity, efficiency, and innovation with help from our team of experts.

MARKETS: Commercial, Industrial, Institutional

Flow Meter

SIKA USA Inc. / BOOTH BT104

An affordable OEM ultra-low flow meter for use in chillers and other DI water based applications. Use of stainless steel and inert plastics allow for measuring from 01 gpm through 16 gpm. Use of sapphire bearings and other high end materials prevent degradation of materials and ensure a long life.

MARKETS: Commercial, Industrial, Institutional, Residential

EC Motor

Sinro Energy-Saving Technology Co., Ltd. / BOOTH C6152

Sinro’s new series of EC motors with output power up to 15kW is specially designed for the usage of cooling tower. It features low speed range (200-500rpm), direct drive with no gearing box or belt is needed, variable speed control, easy installation and low maintenance.

MARKETS: Commercial, Industrial, Institutional

### Refrigerant Gas

**REFEX INDUSTRIES LIMITED**

**BOOTH C7796**

Our R134A cans are extensively used when it comes to re-charging vehicle AC systems. They are available in both DOT cylinders as well as 12 oz. cans, depending on the end usage. Our R13A cans are designed using self-sealing tops so that they are re-useable unlike the traditional cans.

MARKETS: Commercial, Industrial, Residential

### UV Air Treatment System

**Respicaire**

**BOOTH B4575**

The Respicaire MoldMiser Max Germicidal UVC Air Treatment System features a unique dealer communication LCD module that is field programmable. Dealers can personalize their contact information and the system will prompt consumers to contact dealers annually for service & replacement parts. It provides dealers with modern in home advertising that works 24/7-365 days a year. A great addition to the IAQ family of product solutions from Respicaire.

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MARKETS: Commercial, Industrial, Institutional, Residential

### Energy Recovery Ventilation System

**RenewAire LLC**

**BOOTH B3567**

With growing demand for smaller, more flexible and advanced technology units, RenewAire introduces the Simeline (SL) Series ERV. The Simeline is compact, fits into tight spaces, is adjustable to a specific point by one CFM increments to vary supply/exhaust airflow and can operate continuously at that airflow with boost mode for temporarily max airflow. It’s perfect for high-rise condos, apartments, town homes, single family homes and compartmentalized commercial spaces with minimal bulkhead and ceiling space.

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MARKETS: Commercial, Industrial, Institutional
Actuators for HVAC Control Products
Sinro International Trading Limited
BOOTH C5162
Founded in 1986, SINRO control is specialized in research and development for all kinds of actuators widely used in motorized valve bodies, dampers and ventilation devices. Features include a range from 0.5Nm to 65Nm, on/off, floating or 0-10V modulating for option, power-off return function, limit switches, and feedback switches available.
MARKETS: Commercial, Industrial, Residential

Ultra-Efficient Motor
Software Motor Company / BOOTH B4683
The SMC Smart Motor System leads the Ultra-Efficient Motor category with its software-driven switched reluctance motors that deliver unprecedented levels of energy efficiency. The system is a complete solution that includes Variable Speed Drive motor control electronics, networking and IoT platform capabilities. The patented system leverages the power of technology to deliver a motor system that significantly reduces space conditioning and refrigerating energy costs, alleviates energy demand and produces positive environmental impacts globally.
MARKETS: Commercial, Industrial, Institutional

Aluminum Coil Repair and Brazing Rod
SolderWeld, Inc. / BOOTH B4579
Alloy Brazing is the best aluminum repair and joining rod in the HVAC industry. Flux core aluminum brazing rod finally allows for a solution to the coil being shipped with existing pin holes and anytime a coil needs repair. It flows out a low Brazing temperature, it keeps the tech and manufacturers from causing issue to the patent metal.
MARKETS: Commercial, Industrial, Institutional

Refrigerant Leak Detection Lamp
Spectronics / BOOTH B415
The new and improved design of the Spectrolite Violet Light Leak Detection Lamp, SPE-HVL-CS, is both powerful and economical as it has a run-time of up to 5 hours. It uses 3 standard AAA batteries, has an anti-roll feature, is rugged with a corrosion-resistant anodized lamp body that stands up to years of heavy use. The lamp provides optimal fluorescent dye response and contrast while the pre-focused beam optimizes fluorescent response. It is compact design easily gets into tight, cramped spaces.
MARKETS: Commercial, Industrial, Institutional

Energy Recovery Ventilator
Spinmaker Industries, Inc. / BOOTH B4255
Spinmaker Rotary Energy Recovery Ventilators provide an economical alternative for conventional 100% air applications. Cooling is available in DX air cooled, water cooled or heat pump. Heating options are available in natural gas, electric, hot water or steam. For projects that require neutral air supply, dehumidification can be engineered to provide the desired indoor environment.
MARKETS: Commercial, Industrial, Institutional

Modular Cooling Tower
SPX Cooling Technologies / Marley
When SPX Cooling Technologies engineers began their quest to design a new high capacity counterflow cooling tower, they were challenged to reach new heights in cooling performance. Equally important was their mission to create a solution that would greatly simplify size;
MARKETS: Commercial, Industrial, Institutional

Oil-Free Centrifugal Water-Cooled Chiller
Smardt Chiller Group Inc. / BOOTH C6819
Smardt’s new DC chiller range is finding special application in mission-critical environments like data centers, clean rooms, and microgrids. Using components supplied by Danfoss Turbocor Compressors, Inc., Smardt’s oil-free magnetic bearing compressor uses DC power for the shaft levitation system, compressor motor and onboard VFD. Conversion of all chiller components (compressor, controls, powered valves, and condenser fans) to a DC system achieves net chiller efficiency gains of close to 15%, including power factor improvement.
MARKETS: Commercial, Industrial, Institutional

Brazed Plate Heat Exchanger
SWEP North America, Inc. / BOOTH B2953
SWEP’s new B315 model is equipped with 3” ports in a compact 10” x 15” envelope. This model is based on open, yet strong internal design, which facilitates low pressure drop and high flow rates providing an optimized solution in stainless steel for applications such as refrigerated air dryers, heat recovery, after coolers, and oil coolers.
MARKETS: Industrial

Low NPSH Centrifugal Pump
Sterling / BOOTH CS565
Used on Condensate Return and Boiler Feed Units for condensate temperatures up to 212 °F. Its stainless impeller and impeller ensure supreme corrosion resistance. The heavy-duty cast iron pump housing and bracket assure rigidity and long life. It has a carbon ceramic pump seal (300 °F) with EPDM elastomers and can operate in low NPSH conditions controlling cavitation and continuing to provide steady flow. The efficient design provides maximum capacity, minimum motor load, and the ability to operate in low NPSH conditions.
MARKETS: Commercial, Industrial, Institutional

Infrared Heater Control
Superior Radiant Products Ltd.
BOOTH C7081
SRP ACCU-RATE® Pro Control Panel can be fully customized and expanded to accommodate any size or type of infrared heating equipment. It features the ability to operate as an independent building management system; to monitor and control modulating infrared heating systems; and to fully monitor schedules and actual temperature conditions in the heated space, all within an intuitive, fully customized interface.
MARKETS: Commercial, Institutional
Air Conditioning & Refrigeration Equipment, Systems, Components & Products

Heat Pump Condensing Unit
Tadaran Consumer & Technology Products Ltd. / BOOTH C7453
Tadaran Invisible is an innovative condensing unit that can be mounted within enclosed places and represent a breakthrough in the way of preserving residential and light commercial buildings aesthetics. It is specially designed to make the installation easy and effective. It has a smart hanging system that limits the space requirements and features a slim profile of less than 20” which enables it to be installed in places impossible for traditional units such as attics, crawl spaces and garages.
MARKETS: Commercial, Residential

Automatic Back Wash Water Filter
TEKLEEN - Automatic Filters Inc. / BOOTH B830
ABW Series filters are custom manufactured to meet a wide range of industrial applications including ASME certified, sea water, high temperature, high pressure, etc. The filters are complete with Stainless Steel screens and can be set up in parallel for unlimited flow capacities. The filter bodies are available in stainless steel and carbon steel with baked on epoxy coating. Clean filter pressure drop with 100μ screen is less than 1psi at the rated flow of the filter.
MARKETS: Commercial

Water Source Heat Pump
The Whalen Company / BOOTH B3639
Introducing the Closetline® CAS Packaged Heat Pump. Capacities ranging from 05-ton to 50-ton with 135 or 170 EER at WLHP conditions in a compact cabinet designed for ease of service. Horizontal units can be serviced through the unit bottom to virtually eliminate removing ceiling units for service. With optional hot gas reheat for temperature and humidity control as well as hybrid heating and cooling, the CAS Series has flexibility over a wide range of applications.
MARKETS: Commercial

Basket Strainer
Titan Flow Control, Inc. / BOOTH B1970
Titan’s new BS61F Basket Strainer achieves breakthrough performance at an outstanding price. The Dual Annulus design achieves a 10% reduction in pressure loss compared to typical, over-the-top style basket strainers. Its maintenance is a breeze since the BS61F is equipped with Quick-Opening Covers as the standard and large sizes, up to 16” are in stock and ready to ship. The machined seats coupled with an O-Ring Seal provide FIner Filtration as compared to outdated, slant-style basket strainers.
MARKETS: Commercial, Industrial, Residential

Round and Flat Oval Ductwork
Thermaduct, LLC / BOOTH C7803
Give your round and flat oval ductwork increased performance with Thermaduct's Inspiral R and Flavel Duct Systems. These patent pending systems provide the air distribution efficiency of round or flat oval ductwork packaged in an extremely light weight and high quality closed cell phenolic insulation. There’s no need to insulate separately as all ductwork reaches a minimum R-5 insulated value.
MARKETS: Commercial, Industrial, Residential

Refrigerant Leak Monitor
Thermal Gas Systems, Inc. / BOOTH CS436
Thermal Gas Systems, Inc. is pleased to announce the availability of an optional BACnet MS/ TP communication interface module for new Haloguard IR and Haloguard III infrared refrigerant monitoring systems. The Haloguard BACnet MS/TP interface module (part# H3BACT) can be used by existing Haloguard IR and Haloguard III instruments that were originally ordered with optional RS-232 serial output.

Spool Compressor
TORAD Engineering, LLC / BOOTH B2809
TORAD’s Model SESO99 spool compressor technology provides a low cost, high efficiency path for adoption and Ultra-Low GWP refrigerants for air conditioning applications.
MARKETS: Commercial, Industrial, Institutional, Residential

In-Floor Heater
TPI Corporation / BOOTH B3031
The 9900 series heaters are fixed location convection heaters intended for commercial / industrial use. The 9900 Series can be fully recessed into the floor with ‘zero’ clearance to combustibles or surface mounted and wrapped with a custom built enclosure on the sides and ends with zero clearance. Continuous runs can be accomplished by installing heaters end to end. Corner sections, blank sections and control sections available. All electrical components are factory assembled.

Large Unitary Rooftop Equipment
Trane / BOOTH B2661
The next-generation IntelliPak with Symbio 800 goes beyond the rooftop to impact the entire customer life cycle, maximizing outcomes with minimal energy. Advanced selection tools make project design a breeze while extensive product testing and lean manufacturing principles ensure quality at the source. Installation is fast and flexible with application-specific and field-programmable controls. Advanced diagnostics deliver real-time building information to keep performance optimal. From project inception to product replacement, Trane delivers a holistic solution through the IntelliPak rooftop unit, which is completely engineered around the customer experience.
MARKETS: Commercial

Condensing Unit
Tecumseh Products Company LLC BOOTH B1327
The 1½ to 6 HP capacity Tecumseh Argus condensing unit platform, exceeding the DOE’s AWEF minimum efficiency for walk-in cooler and freezer refrigeration systems, is designed for all customers and their needs in mind. Bringing innovation to the market, the platform reduces a building’s environmental footprint by using highly efficient reciprocating and scroll compressors as well as technologies such as EC fan motors and microchannel condensers optimized around HFO-blended refrigerants.
MARKETS: Commercial

IntelliPak®
Trane

MARKETS: Commercial, Industrial, Institutional, Residential
Wireless Pressure Transducer

Transducers Direct / BOOTH B4073

Transducers Direct is now adding Z-Wave communication capability to its TDWLB-LC series wireless pressure transducer which is optimized for refrigerant monitoring in AC and refrigeration systems. Meant to be paired with wireless thermostats and controllers, this innovative solution ensures refrigerant is kept at the proper level to keep the system functioning properly. The TDWLB-LC is made with an incredibly strong composite material which is much lighter and less expensive than stainless steel or brass, making it perfect for OEM applications.

MARKETS: Commercial, Industrial, Institutional, Residential

Portable Power Tool

TRUMPF Inc. / BOOTH B2923

The TruTool C 200 Li-Ion 18 V rechargeable battery features an open cutting head allowing users to retract the machine easily out of a sheath. Extraordinary power can be achieved when cutting spiral ducts with the powerful steel cutting head. Three different cutting blades combined with the right cutter ensure greater precision with the capability of separating mild steel sheet thicknesses up to 2 mm, and fold thicknesses up to 36 mm.

MARKETS: Commercial, Industrial, Institutional, Residential

Free Piston Stirling Coolers

Twintec Corporation / BOOTH C8037

FPCS, Free Piston Stirling Coolers, are the complete CFC free system using natural He gas. It is small, portable, and it is widely used for precise temperature control for under ~50°C. Twintec succeeded in mass production through the collaborative network of craftsmanship in Tsubame-Sanjo, Japan.

MARKETS: Commercial, Industrial, Residential

Metal Filter & Strainers

Vanteco Co., Ltd. / BOOTH C7842

Vantec is committed to providing high quality high pressure resistant metal filters according to the customer’s required design, size and sometimes our offer. Mainly our filters are used for divers, compressors, accumulators, evaporators, separators, and actuators in HVAC&R industries.

MARKETS: Commercial, Industrial

Cooling Tower Water Filtration

Vortisand™ an Evoqua Brand / BOOTH C6102

Vortisand systems are synonymous with water filtration, serving the industrial and commercial water markets since 1986. The award-winning Vortisand is a High Efficiency Micronord Filtration System. It is a high capacity media filter that combines cross-flow dynamics with micron-scale media to achieve submicron filtration performance. This technology allows the unit to operate at filtration rates of up to 5 times greater than those of traditional media filters, while filtering 10-50 times finer.

MARKETS: Commercial, Industrial, Institutional

Refrigerant Charging Equipment

VTech / BOOTH B4309

VTech MC1-HC-S is the latest V Tech refrigerant charging board specifically designed for high productivity refrigeration and A/C plants. It handles virtually any type of refrigerant both flammable (e.g. HC: R600, R290, R32) and non-flammable (e.g. HFO, HFC). It is fully customizable and is able to charge multiple refrigerants and oil at the same time in order to allow for “twisted” production lines.

MARKETS: Commercial, Industrial

Refrigerant & Helium Cylinders

Zhejiang Jin-Shine Technology Co., Ltd. / BOOTH C6778

Disposable cylinders have DOT, CE and GB standards; refillable cylinders have 12-1000L, series and different pressure levels; and 12L and 136L cylinders meet EN13322-1 standards. Our cylinders can be filled with different refrigerants or helium, depending on the different pressure.

MARKETS: Commercial, Industrial

Ventilation Fan

ZIEHL-ABEGG, Inc. / BOOTH C6831

The ZBlufin from ZIEHL-ABEGG is a cutting-edge bionic impeller with a special blade design derived from the humpback whale. Protusions, modeled after the tubercles on a whale, ensure an optimized airflow angle and reduced flow separation on the blade surface. This diffuses sound output and reduces noise. The tubercle creates a stabilized air flow around the blade which improves performance even under adverse conditions.

MARKETS: Commercial, Industrial, Institutional

Insulation Saddles

ZSI-Foster / BOOTH C5958

The new Snap-A-Saddle Pro™ and Multi™ from ZSI-Foster offer permanent solutions to insulation problems. They’ll save you time and money when you install them, avoiding costly repairs in the long run. They’re available right now in black or white from multiple stocking warehouses. The Snap-A-Saddle Pro’s unique high-sided design and patented micro-bubble surface prevent saddle displacement from expansion-contraction, freezing or mold from condensation, and structural damage from liquid line movement. The Snap-A-Saddle Multi features a patented design that eliminates compatibility headaches! Using a single base and multiple snap-in cartridges, you can buy exactly the configuration you need without stocking excessive product.

MARKETS: Commercial, Institutional
Magnetic Dirt Filter
ADEX Innovation LLC / BOOTH BG4900

The compact and cost-effective 2”, 3” & 4” ADEX® MagnaClean™ DXR magnetic dirt filter range protects heating components in commercial hydronic heating systems from the dangers of damaging iron oxide. Built to ASME standards, the filter consists of an innovative magnetic belt, containing numerous high-performing neodymium spring-loaded magnets, wrapped around a precision-engineered stainless-steel canister for easier servicing and cleaning. The DXR can be installed in-line or side stream, in any orientation, offering maximum installation flexibility.

MARKETS: Commercial, Industrial, Institutional

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Commercial Condensing Boiler
AERCO, a Watts brand / BOOTH C6805

With its combination of patented technology (AETrim O2 trim), advanced features and innovative AETrim Predictive Maintenance analysis tool, the Benchmark Platinum condensing boiler optimizes system performance and provides maximum efficiency up to an additional 9% for bigger savings and greater return on investment. Benchmark Platinum helps save money by reducing install, start-up and annual operating costs; simplifies start-ups and maintenance; and strengthens system design, performance and efficiency. A new feature will be unveiled at AHR!

MARKETS: Commercial

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Heat Exchanger
AIC Heat Exchangers / BOOTH C7715

The JAD is unique in design and diverse in capacity. Developed for flexibility, it can be an integral component of any sophisticated heat recovery system, while just as suitable for everyday use. One of the most characteristic features of the JAD family is the closely packed, circular layers of helically corrugated tubes that constitute the tube bundle. Each layer is positioned in the opposite direction to the surrounding layer, resulting in an overall criss-cross pattern. The effect is a high heat transfer surface area within a compact space. Additionally, the inherent spring-like characteristics of the coiled tube bundle enable these heat exchangers to withstand high temperature differentials. The JAD angular connections accommodate smooth, gradual flow entrances and exits.

MARKETS: Commercial, Industrial, Institutional

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Water Conditioner for Tankless Water Heaters
American Valve / BOOTH C7927

ScaleRx™ protects your water heater from limescale build-up and keeps it running efficiently. It requires no power supply, batteries, chemicals or filters. ScaleRx™ uses a patented turbulent galvanic polarization (TGP) electrode to disrupt the formation of limescale crystals on water heater elements. In side-by-side comparison testing, ScaleRx™ was four times more effective than the leading electronic scale device. ScaleRx™ is easy to install and maintenance free.

MARKETS: Residential

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High Temperature Heat Pump
AERMEC S.P.A. / Mits Airconditioning Inc. / BOOTH B4139

The WWB, which operates in heating-only mode, is used to increase the outlet water temperature produced by a conventional heat pump to a temperature up to 178°F / 80°C to allow its use in all applications that demand such high water temperature. The WWB series is available in eight different sizes with heating capacity from 191/370 Btu to 127/361 Btu at nominal conditions.

MARKETS: Commercial, Industrial, Institutional

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Electric Furnace
Dettson industries / Ouellet / BOOTH B1101

Our compact Modulating Electric Furnace is only 60lbs, 10”x26”x37” and available in 0kw, 5kw and 10kw sizes. It can accommodate up to 15T cooling, making it an ideal option for high-performance, zero energy (net zero) homes.

MARKETS: Residential

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Condensing Boiler
Fulton / BOOTH C6453

The ENDURA+ is Fulton’s latest game-changing boiler. The revolutionary product features exclusive technology that eliminates stress on the heat exchanger. This stress-reliever combines with the heat exchanger’s duplex stainless-steel construction to drastically extend boiler longevity and peak operational performance. The boiler fits through a standard doorway and presents the latest in advanced control technology, including O2 Compensation and 15:1 turndown. Its many features combine to make it the most efficient boiler on the market.

MARKETS: Commercial, Institutional

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Connected Combustion Solution
Honeywell International Inc. / BOOTH C6509

Thermal IQ™ is a remote monitoring solution which securely connects combustion equipment to the cloud, making thermal data available anytime on smart devices. Thermal IQ’s advanced software solutions enable users to effectively monitor and manage equipment, minimizing downtime and maximizing uptime while optimizing system performance. Thermal IQ uses Modbus communications from devices like the 7800 SERIES, SLATE™, SV2 Series Valves and UDC Controllers to spot irregularities sooner, get alerted to problems, and act faster.

MARKETS: Commercial, Industrial, Institutional

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Heat Pump
HOTJET CZ s.r.o. / BOOTH C7861

The innovative design of this mini-heat pump has given us a new opportunity to use renewable energy. Hotjet NAV-03 is the smallest air-to-water heat pump on the market. Its ease of integration is due to its small footprint and the absence of outdoor units. It revolutionizes individual heating solutions.

MARKETS: Commercial, Industrial, Institutional, Residential
Tankless Water Heaters
IntelliHOT Inc. / BOOTH B760
Our IQ Series floor-standing units deliver the highest capacity in the industry with up to 3 million BTUs and no storage tanks required. Designed for very large volume and commercial applications, these high input units slash capital costs by up to 50% and decrease operational costs by up to 40% when compared to traditional tank-type systems.
MARKETS: Commercial, Industrial, Institutional

Thru-Wall Self Contained Units
Napoleon Heating and Cooling / BOOTH B1061
Designed for conventional thru-wall installation applications, Napoleon’s Condo Pack is the most effective choice with an all-indoor-design for a clean exterior look. Perfect for residential low and high rise applications as well as institutional and industrial installations. Pre-wired and pre-charged with a dual-sliding chassis for easy installation and maintenance of both heating and cooling units. An industry leading quality control program ensures years of trouble free use for your peace of mind. High-efficiency, Mid-efficiency, and Electric Heating and Cooling options available.
MARKETS: Residential

Vertical Steam Boilers
Parker Boiler Co. / BOOTH B761
Standard Heavy Duty T-tubes are used with a 0.12” wall thickness. The tubes are bent around the flame creating a water wall furnace. A large ½” thick seamless horizontal steam drum. The sealed combustion design raises efficiency with lower excess air and minimizes heat loss to the room. A low NOx metal fiber burner is standard for 20ppm and Precertified to AQMD 11682. Units will be available 96 HP to 24 HP.
MARKETS: Commercial, Institutional

Residential Combination Boiler
Noritz America / BOOTH C6158
With a 95% AFUE, the NPCB is the only combination boiler in the tankless water heater market that allows for simultaneous residential domestic hot water and space heating. The product also uses 316L austenite stainless steel primary and secondary heat exchangers, which have higher corrosion resistance and allow a longer lifespan and enhanced durability.
MARKETS: Residential

Pool Heater
Patterson-Kelley / BOOTH B1454
Following our philosophy of being a solutions provider, Patterson-Kelley is pleased to announce an addition to our water heater product line. The MACH™ Roll is now available in a pool heater version, ranging in sizes from 300 through 1050 MBTU, uniquely featuring single or double wall SS heat exchanger and CPVC piping in lieu of traditional copper piping. This combination unit can provide comfort heat while effectively and reliably responding to your pool heating needs.
MARKETS: Commercial, Institutional

Low NOx Burners
Power Flame Incorporated / BOOTH B1547
Ultra Cmax offers proven state-of-the-art technology to minimize emissions while maximizing combustion efficiency and operating performance. Designed for a variety of heat exchangers, the UCmax combines fuel staging, premix combustion and FGR to achieve sub 5 ppm NOx emissions on natural gas.
MARKETS: Commercial, Industrial, Institutional

Radiant Electric Heating Panel
Raypak, Inc. / BOOTH B3217
The Raypak® XVCs Commercial Vertical Fire-tube Modulating Condensing Boilers offer installation flexibility, easy commissioning, optimum seasonal efficiency, and long-term reliability. Featuring stainless steel vertical fire-tube construction, the XVCs are 100 percent fire tested, and operate at up to 96.2% thermal efficiency at full rate. The XVCs Commercial Condensing Boilers are equipped with the VERSA IC® integrated control system, and are capable of operating a single boiler or cascade of boilers without requiring an external sequencer.
MARKETS: Commercial

Modulating Condensing Boiler
Raypak, Inc. / BOOTH B3217
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MARKETS: Commercial

Electronically Commutated Motor
Regal® / BOOTH B1639
The Gentex® Ensite® motor is a new electronically commutated motor (ECM) product specially designed for furnace applications. It enables customers to comply with the U.S. Department of Energy’s (DOE) Fan Energy Rating (FER) regulatory requirements that will take effect in July 2019 and offers a lower cost with premium features such as advanced Blak Box™ technology and Near Field Communication (NFC) capabilities (ICT and preventative maintenance).
MARKETS: Residential
**Gas Furnace**

Rheem Heating & Cooling Division

BOOTH B3277

The Rheem Classic Ultra Low NOx Gas Furnace is the first certified unit to beat the Ultra Low NOx emission standard and it attains the xNOx NOx emissions. It is an environmentally friendly gas furnace which reduces NOx emissions by 65% and provides cleaner air for everyone. It also has many key features such as 1/4 turn door knobs for toolless access, industry-first PlusOne® Diagnostics 7-Segment LED display, and a removable Heat exchanger.

MARKETS: Commercial, Residential

Rheem Heating & Cooling Division

**Condensing Boiler**

Riello North America / BOOTH C7243

The new Array v2.0 is a pre-packaged condensing boiler plant, the new standard in boiler efficiency, redundancy and reliability. Each Array boiler utilizes multiple heat exchanger modules, providing high turndown and multiple boiler redundancy in one packaged unit. A single Array boiler provides superior uptime reliability that is only typically found in larger boiler plants and multi boiler systems. v2.0 incorporates multiple mechanical and control based enhancements incorporated directly in response to industry feedback.

MARKETS: Commercial, Industrial, Institutional

Array Series Boiler
Riello North America

**Gas Fired Absorption Heat Pump**

Robur Corporation / BOOTH B2924

The Robur GAHP-AR reversible cycle heat pump provides the highest available efficiency for hot water production to be used in comfort and DTH heating applications. With its revolutionary design, the absorption heat pump combines the best aspects of the two most popular heating systems, boilers, and electric heat pumps, with all the advantages of gas fired cooling that can reduce operational costs compared to more traditional cooling systems.

MARKETS: Commercial, Industrial, Institutional, Residential

Robur Corporation

**Hand-Held Torch System**

ROTHENBERGER USA / BOOTH C7025

The Powerjet is the most flexible hand-held torch system and provides everything the professional or home user requires. With many unique features, these blowtorches can be used for brazing, soft soldering, heat-shrinking, heating and dismantling work. The SiVert system can be used with several gases including Propane, Butane, Propane/Butane mix, Ultragas, MAP® and Ultramapp for extreme heat.

MARKETS: Commercial, Residential

ROTHENBERGER USA

**Boiler and Hot Water Heater Draft Control**

Schebler Chimney Systems / BOOTH C6153

Schebler Chimney Systems’ SequenceDraft Control™ is able to provide you with an engineered venting system that maintains the desired condensing dew point of combustion and prevents excess draft. Schebler eVent™ Series modulating dampers with pressure transducers are located at the outlet of each appliance to maintain the factory recommended firebox pressure or negative draft condition at all times, while also accounting for differences in firing rates and outside air temperatures.

MARKETS: Commercial, Industrial, Institutional

Sequence Draft Control Schebler Chimney Systems

**Hydronic System Magnetic Filter**

Sentinel Performance Solutions Limited

BOOTH B956

Circulating debris in hydronic heating systems can cause wear and premature failure of pumps, valves and heat exchangers. Sentinel Eliminator Vortex500, fitted to the return pipe on the boiler, will protect the system against all types of debris.

MARKETS: Commercial, Residential

Sentinel Eliminator Vortex500
Sentinel Performance Solutions Limited

**Flush Mount Radiant Heater**

Solaira Heating Technologies - Inforights Consumer Products Inc. / BOOTH B2275

Solaira Radiant Infrared Technology offers CSA (UL,2021) approved Ultra Low Light ICR Candel Series Heaters for Commercial and Residential Flush Mount requirements. Available in standard and Custom RAL colours to suit design requirements. Control options include fully BMS integrated to stand alone variable occupancy, or temperature sensing.

MARKETS: Commercial, Residential

Solaira ICR Candel with Trim Kit
Solaira Heating Technologies - Inforights Consumer Products Inc.

**Wall-Mounted Tank Water Heater**

Stiebel Eltron, Inc. / BOOTH B3847

Stiebel Eltron PSH 20 Plus storage wall-mounted water heaters with optional drip pan will free up space foring easy installation. Its European design and small size allows installation close to the tap for energy and water savings with low standby losses and quick recovery time.

MARKETS: Commercial, Institutional

PSH 20 Plus
Stiebel Eltron, Inc.

**Fuel Units**

Sunotec Industries / BOOTH B3449

TAR pumps are designed for industrial applications using low viscosity fuels as well as high viscosity fuels (up to #6 oil) thanks to a preheater location making the cold starting easier. TAR models meet the hardest specifications of burner manufacturers thanks to specific technical solutions such as mechanical shaft seal resisting high temperature, carbon bushings, and special surface treatments to improve wear resistance and life time. Capacity is from 120 to 450 GPH @ 300 PSI

MARKETS: Industrial

TAR Fuel Units
Sunotec Industries

**Gasketing**

Topog-E Gasket Co. / BOOTH B1227

Series 3000ET joint sealant is specially processed by expanding 100% pure polytetrafluoroethylene (PTFE) it provides a soft, highly compressible gasket for longer life and trouble-free sealing. Its form-in-place versatility cuts maintenance and storage costs. The high compressibility of Topog-E® S-3000 ET enables it to effectively fill flange imperfections for a tight, leak-free seal. Under pressure, it provides a very wide, thin ribonikone joint sealant.

MARKETS: Commercial, Industrial

Stiebel Eltron PSH 20 Plus
Stiebel Eltron

**Materials**

Inforesight Consumer Products Inc.

**Hand-Held Torch System**

Solaira Heating Technologies - Inforights Consumer Products Inc.

**Flux Mount Radiant Heater**

Robur Corporation

**Gas Fired Absorption Heat Pump**

Rheem Heating & Cooling Division

**Condensing Boiler**

Riello North America

**Gas Furnace**

Rheem Heating & Cooling Division

**Condensing Boiler**

Riello North America

**Gas Fired Absorption Heat Pump**

Robur Corporation

**Hand-Held Torch System**

ROTHENBERGER USA

**Boiler and Hot Water Heater Draft Control**

Schebler Chimney Systems

**Hydronic System Magnetic Filter**

Sentinel Performance Solutions Limited

**Flush Mount Radiant Heater**

Solaira Heating Technologies - Inforights Consumer Products Inc.

**Wall-Mounted Tank Water Heater**

Stiebel Eltron, Inc.

**Fuel Units**

Sunotec Industries

**Gasketing**

Topog-E Gasket Co.
Hydronic Heat Convector

Toyoitomi USA, Inc. / BOOTH B2164

Toyotomi’s Hydronic heat convector complements the high efficiency, aquastatic controlled boilers that use low water temperatures. Internal thermostat control circuitry communicates with zone valve or boiler controller, which is an exclusive feature that no other convectors have. It offers heating of an area of 300-1000 sq. ft. and heat output of 3000 BTU per hour on low to 25000 BTU per hour on high.

MARKETS: Residential

Indirect Water Heater

Triangle Tube / BOOTH B4223

Ginüs features the Picanto heat exchanger technology, a high quality, high-performance indirect water heater. The patented design allows for high pressure ratings and higher out-put. The unique heat exchanger design offers less resistance to boiler flow. Ginüs is constructed entirely of passivated stainless steel and is backed by our lifetime residential warranty. Available in 4 sizes including our 65-gallon “Flex tank” featuring a dual heat exchanger configuration designed for high-output/with multiple energy sources.

MARKETS: Residential

Fire-Tube Boiler

Unixlux Advanced Manufacturing, LLC

BOOTH B3445

The FORC® POWER® Series TCS Horizontal Steel Fire-Tube Boiler is available in 3 and 4 Pass configurations. S5F/B4-P and are constructed in accordance with ASME SC1 and SCIV for hot water and steam generation in commercial, institutional, and industrial applications. Units are standard factory packaged boiler assemblies complete with fuel burning equipment complying with various code and emission requirements, and in ASME SCIV Low Pressure Steam and HW applications, offered in full compliance to UL2016 Field Erect Guidelines.

MARKETS: Commercial, Industrial, institutional

Motor Bearing Protection

AEGIS / Electro Static Technology - ITW / BOOTH C5562

AEGIS® now offers a FREE 2-Year Extended Warranty against fluted bearings on any motor with an AEGIS® Shaft Grounding Ring installed in accordance with AEGIS® Best Practices – any size, low- or medium-voltage, new or reconditioned. Simply scan the QR code on the “AEGIS® Installed” sticker or follow the links on www.aegis-aecom to the mobile-enabled AEGIS® Warranty Portal, register the motor, and rest easy knowing that your motor is protected for an extra 2 years!

MARKETS: Commercial, Industrial

AEGIS® Shaft Grounding Ring

AEGIS / Electro Static Technology - ITW

Air Diffuser

AirConcepts, Inc. / BOOTH B4328

The HVT Series of Jet Nozzles for HVAC Systems are designed for applications requiring long, short, or diffused throw with an architectural appeal. The HVT model offers adjustable airflow patterns to fit specific applications including civil education, religious, transportation, industrial, and commercial projects. These units are constructed of heavy gauge aluminum with a powder coated finish and can be used in ceiling or wall applications.

MARKETS: Commercial, Industrial, Institutional

Heat and Energy Recovery Ventilators

Aldes Canada / BOOTH C6767

Aldes is offering new HVT-certified, large format ventilators up to 280 cfm for large homes or businesses. The H280-SRG and E280-SRG feature all the benefits of Aldes residential HRVs and ERVs. Efficiencies of 75% (H280) and 77% (E280) at 33F and 64 cfm. FlexControl and door ports for quick balancing and selecting the right amount of fresh air for your projects. Detachable 6-inch collars for easy flex duct connection; Recirculation frost protection. Can be driven by up to 4 Aldes Zone Register Terminals for bathroom ventilation with no bathroom fans; and ERV with Aldes’ efficient HLT enthalpic core -- and no drain required!

MARKETS: Commercial, Residential

Heat and Energy Recovery Ventilators

American Aldes / BOOTH C6767

Aldes is manufacturing new Light Commercial ERVs and HRVs that provide from 285-1675 CFM of fresh outside air into your building. Models with EC motors use 80% less electricity than AC motors at low speed continuous ventilation rates. ERVs are available with an Aldes exclusive AHRI-certified HLT core that provides better latent recovery performance and moisture transfer than other plate type exchangers.

MARKETS: Commercial, Industrial, Institutional, Residential

Destratification Fan

Atmosphere Inc. / BOOTH B1124

The new Vortex D-65 destratification fan creates uniform air temperatures from floor to ceiling for maximum thermal comfort and energy savings: up to 35% in the heating season and up to 25% in the cooling season. The Vortex D-65 is powered by a mixed flow impeller resulting in a ultra-quiet operation. The airflow can be directed along any vector for precision use.

MARKETS: Commercial, Industrial

Single SKU Vent System

Centrotherm Eco Systems / BOOTH C8040

Centrotherm Common Venting solutions are changing the flue gas industry. By venting several heating appliances together, not only is the heating installation completed faster, but you will improve the efficiency and life of the heating appliance. Centrotherm common venting and cascade options come complete with condensate management components and everything necessary to complete complicated installations.

MARKETS: Commercial, Industrial, Institutional

Plug Fan

Continental Fan Manufacturing Inc.

BOOTH C7607

Continental Fan is pleased to introduce the new, groundbreaking, high efficiency TEK-MAX Plug Fan. Combining the precision-manufactured BC Airfoil TEK impeller with the game-changing Marathon® UltraMAX® motor, TEK-MAX Plug Fans provide superior efficiency versus EC motorized impellers, whether operating at full or part load. Applications include air handling units, military HRAC, electronic cabinet cooling, air filtration, clean room modules, and more.

MARKETS: Commercial, Industrial, Institutional

Ventilation Systems

Delta Electronics (Americas) Ltd.

BOOTH C5307

The Delta BreezSignature SIGRD-110EL LED has an adjustable high speed 80/110 single speed ventilation fan with dimmable edge-lit LED light. It also features an adjustable LED color temperature to match your elegant bathroom design. Color temperature options include warm white (2700K) light, bright light (4000K) and daylight (5000K). It offers a virtually silent operation at 0.3 Sones, is rated ENERGY STAR Most Efficient 2018 with maximum efficiency and cost-saving operation, and the brushless DC motor technology lasts 2-3x longer than typical AC motor fans.

MARKETS: Residential

Light Commercial

CL WARD & Family Inc. / BOOTH B374

CLD Slip and CLD Drive is a self-sealing transverse duct connection for low pressure rectangular duct work. Utilizing the integral gasket in the slip and the drive and the CLD Corner Patches, a sealed connection is made. Our CLD System eliminates the need of duct sealant application on the transverse joint.

MARKETS: Commercial, Residential

Transverse Duct Connection

BOOTH C6767

CENTRO THERM

Common Venting Kits

CENTRO THERM

Eco Systems

MARKETS: Commercial, Residential

Ventilation Equipment (Fans, Blowers, Diffusers, ETC.)

VENTILATION EQUIPMENT (FANS, BLOWERS, DIFFUSERS, ETC.)

Heating Equipment (Boilers, Burners, Exchangers, etc.)

HEATING EQUIPMENT (BOILERS, BURNERS, EXCHANGERS, ETC.)
Suspension Systems / Ductwork Components
Doby Verroco / BOOTH B4544

DobyGrip Max is the only wire suspension system designed specifically to suspend Spiral Ductwork safely with the minimum amount of space required. Designed to maintain full load capacity up to 120 degree inclusive angle doubles any of its competitors. It allows ductwork to be installed closer to the suspension point which reduces the space and wire required thereby reducing installation costs and the potential risk of incorrect installation.

Vent Caps and Hoods
Dundas Jafine, Inc. / BOOTH B2057

For over 85 years Dundas Jafine has been providing high quality and innovative air distribution products to help solve your everyday venting issues. Dundas Jafine recently redesigned some of its existing vent caps and hoods to feature larger screw holes that accepts up to 5/16” Nut Drivers for a faster, drill-powered installation. The improved products include caps, hoods and kits from the EZ Access, ProMax and ProVent series.

Energy Recovery Ventilator
Energy Wall, LLC / BOOTH B268

The Energy Wall Universal ERV (U-ERV) is 3X smaller and 3X lighter than current technology and offers 70% total heat and moisture transfer efficiency. Build your required capacity using 600 cfm U-ERV modules. Each module weighs only 90 pounds for easy installation and is a fully functional/independent system. Modules hand-carried and assembled on site in a group operate with a single duct connection and single point of power/control providing extreme redundancy for mission critical facilities.

Condensing Vent
ICC Industrial Chimney Company, Inc. / BOOTH B3211

Factory built stainless steel venting designed for high efficiency appliances. Easy to install and leak free. Available in single wall, double wall, and double wall insulated. The flue is available in AL29-4C or 444 stainless. More choices, better price, and longer lengths.

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Flexible Air Duct
JPL / BOOTH B361

AMBlue II is constructed with a distinctive inner core treated with Agion® natural silver to resist microbial growth. A spring steel wire helix encapsulates the 2-ply air-tight core. Fiberglass insulation choices of R4.2, R6 & R8 encompass the core and a unique metalized, reinforced vapor barrier surrounds the entire duct.

Special Gas Venting
DuraVent / BOOTH B616

DuraSeal single and double-wall special gas vent provides users with quick and easy assembly. It prevents leakage, is self-sealing and resists the extreme corrosive environments found in condensing boilers, assuring safe and trouble-free operation. DuraSeal features a unique latching system that provides secure and solid joint connections. The unique latch system also allows for faster and easier installation times along with quick disassembly if necessary.

Electronically Commutated Direct Drive Blower Motors
Packard, Inc. / BOOTH B1561

The EC Max motor is specifically designed to replace over 100 different types of PSC and/or Constant Torque motors of equivalent Horse Power. Specifically designed for furnaces, air handlers and heat pumps, this motor is up to 80% efficient. It features a dual voltage design that replaces both 115 and 230 Volts. With an easy wiring application, the EC Max is the perfect motor for any contractor’s truck! EC Max is available in a 1/3HP, 1/2HP, 3/4HP and 1HP.

Bearing Protection Kit
Helwig Carbon Products, Inc. / BOOTH BC4007

The Model BPK-SB is a new patented sealed bearing protection kit. The kit will protect HVAC fans, blowers, and pump motors from bearing damage when they are controlled by drives. The BPK-SB is sealed and protected from outside elements. The kit will extend the life of the equipment and is easy to install.

Louver
Modular Framing Systems / BOOTH B1049

All aluminum construction. 40 degree fixed blade louver with a nominal 4” deep “L” shaped frame. Standard and dramatic extruded blade options available. Made to order with short lead times in virtually any size.

Electropolished 316 Stainless Steel Blower
Plastec Ventilation, Inc. / BOOTH C6724

Electropolishing is essentially “reverse plating” technique that can be used on metal alloy. By using a combination of chemicals and electric current, the process carefully removes surface imperfections and contaminants from metal parts. It can be used for removing heat tint and oxide scale. Since the process removes the outer skin of metal, embedded contaminants which can cause sub-surface corrosion are eliminated. The attractive highly lustrous appearance provides a surface reducing product adhesion and ease of cleaning.

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**Ventilation Equipment (Fans, Blowers, Diffusers, etc.)**

**Air Distribution**
PRIHODA Fabric Duct / BOOTH 9A43

Internal skeleton systems for fabric ducts to prevent sagging and start-up shock have always been complicated and time-consuming to install. PRIHODA has solved this problem with its new HXT helix tensioning system. The HXT helix is encased in a fabric sheath and comes pre-installed from the factory requiring no field construction of internal support systems for fast, easy diffuser installation and full-circumference support and tensioning. The HXT can be easily removed and reinstated for simple maintenance and can even be retrofitted into existing PRIHODA diffuser systems.

MARKETS: Commercial, Industrial, Institutional

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**Louver**
Ruskin / BOOTH B1617

The Ruskin® XP500WD wind-driven rain FEMA louver is the first louver to provide both FEMA impact protection and Class A wind-driven rain protection. Like other impact-resistant FEMA louvers, the XP500WD is tested to FEMA standard 361 for impact protection. What differentiates the XP500WD is its innovative and patent-pending design, which utilizes a new blade that not only provides FEMA protection, but also offers Class A wind-driven rain protection that is AMCA tested.

MARKETS: Commercial, Industrial, Institutional

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**Draft Controls**
US Draft Co. / BOOTH BC4906

The Connector Draft System maintains the required pressure at the individual appliance connector. The CDS takes advantage of the US Draft Co bidirectional pressure transducer and proprietary PID algorithm to rapidly respond to varying pressures at the appliance outlet. Utilizing a 316L stainless steel damper with optional FMK gasket seal, pressure transducer and the all-new V-series controller, the system interlocks with the appliance to maintain the required outlet pressure of the appliance. It also serves to prevent idle boilers from flue gas recirculation when used in a common vent system.

MARKETS: Commercial, Industrial, Institutional

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**Garage Ventilation**
ZOO Fans / BOOTH B366

JetVent Fans operate on well-proven principles of longitudinal tunnel ventilation. The rate of ventilation is adjusted dynamically based on the level of airborne contaminants. These low-profile JetVent EC-powered fans are much quieter and more effective than traditional ducted systems, impulse fans, and other induction fans. Typical applications include enclosed or semi enclosed spaces that contain harmful vehicle emissions such as commercial and residential parking garages, auto service/repair shops, and transportation depots.

MARKETS: Commercial, Industrial, Institutional

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**Forward-Curved Centrifugal Blower Wheel**
Revcor, Inc. / BOOTH C6353

The CR Series Centrifugal Blower Wheel from Revcor is a double-width, double-inlet forward-curved wheel designed for use in furnaces, air handlers, boiler coil units, and any application with appropriate dimensions and static pressure range. The CR Series is an airflow device used to move air from here to there with the least amount of power and maximum reliability. It is available in both clockwise and counterclockwise rotations.

MARKETS: Commercial, Residential

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**Bath Fan**
Sicflux Corporation / BOOTH C7702

The all-new Sicflux Sonora is a new bathroom fan technology that is compact, lightweight and features low noise operation. With an exclusive housing height adjustment system, the contractor can adjust the height of the housing after the ceiling, meaning that the fan is flush with the ceiling, making installation easy and with 100% no leakage between the housing and the ceiling. For retrofits, Sonora provides a square plate to cover the existing hole in the ceiling.

MARKETS: Commercial, Industrial, Institutional

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**Brick and Block Vents**
Sunvent Industries Div. of Syro Sales Corp. / BOOTH B4535

Our heavy duty extruded aluminum vents are of the best quality and are all a minimum of 125” thick material perfect for the commercial/industrial market as well as for use in high vandal areas. A full line of extruded vents comes in various finishes including mill, 204-R1 clear anodized, medium, dark and light bronze anodized. Extruded vents can be manufactured in custom sizes and with any custom color match in Baked Enamel or Kynar finishes. The vents are designed with a deep louvered overlapping blade. The blade itself has a storm stop at the rear, with a high waterstop at the rear of vent. Sunvent Flange “FL” Extruded Vents make simplified installation possible in existing walls.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Controls, Displays**
AMETEK National Control Corp. / BOOTH B2154

Unique custom controls has a robust design to meet specific applications. The high resolution displays allow for easy navigation, video tutorials, and multilingual text. You now have the ability to be mobile by using apps on either Android or Apple!

MARKETS: Commercial, Industrial, Institutional

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**Thermometers & Gauges**
Blue Ribbon Corp. / BOOTH C6042


MARKETS: Commercial, Industrial, Institutional

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**Gas Detection Instrument**
Critical Environment Technologies Canada Inc. / BOOTH C5421

The cGAS Detector is a one or two channel gas detector that offers flexible customization options with the purpose of meeting your specific application and budgetary requirements. Available with analog or digital output, field configurable Modbus or BACnet communications, powered by 24 VDC and customized plug and play smart sensors for monitoring a long list of toxic and combustible refrigerant gases, including PID, Oxygen and Carbon Dioxide. We care about your air!

MARKETS: Commercial

cGAS Detector
Critical Environment Technologies Canada Inc.
**Power Meters**

**DENT Instruments** / BOOTH C5362

The PowerScout 12 HD is a versatile, multi-channel power meter designed to monitor any combination of 4 three-phase or 12 single-phase electrical services up to 4000A. Mix-and-match split core and Rogowski CTs. The PST12-HD combines revenue-grade accuracy with field-selectable Modbus or BACnet (Serial RS-485 or Ethernet) communications. Quickly configure the meter prior to deployment using intuitive ViewPort HD software (included). Patented PhaseChek Technology ensures proper CT-to-phase installation the first time.

**MARKETS:** Commercial, Industrial, Institutional, Residential

**PowerScout 12 HD**

**DENT Instruments**

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**Refrigerant Pressure Transducer**

**DunAn Sensing** / BOOTH C7443

A refrigerant pressure transducer specifically designed for hermetically sealed HVAC/R systems. Refrigerant pressures are measured on the suction and the discharge side of the system. The CT Series is designed specifically to meet the customer’s expectations and high-efficiency systems needs while exceeding reliability specifications. The CT series is the first refrigerant pressure transducer that provides the user with their price and performance requirements and only gives up one thing: the O-Ring.

**MARKETS:** Commercial, Industrial, Institutional, Residential

**Model CT Series**

**DunAn Sensing**

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**Thermal Imaging Camera**

**FLIR Systems** / BOOTH C7224

Thermal technology is more attainable than ever with the FLIR ONE Pro LT, a thermal camera that connects directly to your smartphone. The FLIR ONE Pro LT delivers powerful tools at an affordable price helping you detect and reliably diagnose HVAC issues before they become major headach es. With advanced imaging technology and the convenience of an adjustable connector, the FLIR ONE Pro LT works as hard as you do.

**MARKETS:** Commercial, Industrial, Institutional, Residential

**FLIR ONE® Pro LT**

**FLIR Systems**

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**Converter for Remote Management**

**Full Gauge Controls, Ltd.** / BOOTH B1460

This converter enables communication between Full Gauge Controls controllers and Sitrad through a WiFi data network using the standard TCP/IP communication. TCP-485 WiFi does not require Ethernet cabling to manage the installation. Dimensions: 123 x 84 x 34 mm.

**MARKETS:** Commercial, Industrial, Institutional, Residential

**TCP-485 WiFi**

**Full Gauge Controls, Ltd.**

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**Refrigerant Leak Monitoring**

**Genesis International, Inc.** / BOOTH C5134

The Sherlock Infrared Sensor (IR) will detect refrigerants in enclosed spaces. Each IR is factory calibrated to one specific refrigerant and mounted where refrigerants will concentrate. In this way the IR virtually eliminates false alarms. The IR can be a signal source for a Sherlock Refrigerant Monitor, Wizard Evaporator Control or an Energy Management System to make any machinery room ASHRAE 15 compliant. Different gas specific IR sensors can be mix/matched to any Sherlock control.

**MARKETS:** Commercial, Industrial, Institutional, Residential

**Sherlock Infrared Sensor**

**Genesis International, Inc.**

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**Testing Device for AC Motor Control**

**J2I Development** / BOOTH C8060

The CT-x Series is cost efficient portable measuring devices for checking or testing motor capacitors under AC voltage with displaying at the same time current, voltage, frequency, power factor or dissipation factor. With optional relays and data recording capabilities.

**MARKETS:** Industrial

**QwikProducts™ / Mainstream Engineering**

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**Gas Detection Instrument**

**MSA - The Safety Company** / BOOTH C5435

The MSA Chillgard 5000 Refrigerant Monitor can detect refrigerant leaks at the earliest level of 1 part per million for optimal safety in mechanical equipment rooms. It helps keep people safe and facilities in compliance with ASHRAE Standard 15. In the event of a leak, the Chillgard 5000 provides a clear visual and audible signal to alert of costly and environmentally harmful refrigerant gases.

**MARKETS:** Commercial, Industrial, Institutional

**MSA Chillgard 5000**

**MSA - The Safety Company**

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**Real-Time Diagnostics for Any HVAC/R System**

**North Park Innovations Group, Inc.** / BOOTH B3747

The Manifold Pulse is a highly-versatile, low-cost platform that is installed on HVAC/R or electrical equipment for monitoring & diagnostics. It includes hardware, software, diagnostics, reporting and an alert system. The Manifold Pulse is designed to be used for permanent or temporary monitoring of any system with an air conditioning or refrigeration-cycle. Can also be used for vapor-cycle only, electrical monitoring only, or any desired combination of temperature, humidity, and electrical measurements.

**MARKETS:** Commercial, Industrial, Institutional, Residential

**HOBOMX1002A Data Logger**

**Onset** / BOOTH C5552

The HOBOMX1002A data logger measures CO2, temperature, and relative humidity in buildings and hard-to-reach places like ventilation systems. The free HOBOMobile™ app lets you access data via Bluetooth Low Energy (BLE) right from your mobile phone or tablet within a 100-foot range. The MX1002 features self-calibrating NDIR technology for optimal accuracy and low maintenance costs, and now allows accurate CO2 measurements across a broader humidity range – up to 90% RH.

**MARKETS:** Commercial, Industrial, Institutional, Residential

**HOBOMX1002A Onset**

**Onset**

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**CO2 & Temperature Data Logger**

**SDT LEAKChecker**

**QwikProducts™ / Mainstream Engineering**

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**ECM Motor Replacement**

**QwikProducts™ / Mainstream Engineering** / BOOTH B7553

QwikSwap™ V3 provides replacement of a failed OEM Variable Air Flow Rate ECM 2.0, 2.3, 2.5 or 3.0 motor with a Permanent Split Capacitor (PSC) motor while maintaining variable blower air flow capability. As with any QwikSwap, installation simply requires moving wires from the failed ECM motor to the QwikSwap™ V3 board, then connecting the new PSC motor’s common and the three power leads (one for each speed) to the QwikSwap™ V3 board (along with a capacitor). QwikSwap™ V3 is an extremely valuable tool for the contractor to keep on the truck.

**MARKETS:** Commercial, Residential

**QwikSwap™ V3**

**QwikProducts™ / Mainstream Engineering**

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**Digital Manifold**

**Ritchie Engineering Co., Inc. - YELLOW JACKET Products Division** / BOOTH B2947

The YELLOW JACKET® PS1-870 TITAN™ Digital Manifold provides measurements on a 4.3” full color display which can be transmitted via Bluetooth® to a Smartphone for even further analysis. Local display of system pressures and temperatures, superheat, and subcool provide instant analysis. When connected to your Smartphone, target superheat and subcool are easily attained along with all the other capabilities of the ManTooth™ app. It also features on-board data logging and standard vacuum sensor and measurements (vacuum sensor included).

**MARKETS:** Commercial, Industrial, Institutional, Residential

**PS1-870 TITAN**

**Ritchie Engineering Co., Inc. - YELLOW JACKET Products Division**
Gas Detection System
SENSITRON S.r.l. / BOOTH C5467
The SMART3-R allow monitoring flammable, toxic and refrigerant gases in safe environments. The detectors provide a 4-20 mA transmission and 1 relay output. Optionally they can be equipped with RS485 interface and three relay card. A front LED ring offers a visual indication of the detector’s status while an internal buzzer activates to warn of any fault or alarm condition. Ideal for light industrial applications and machinery room environments, the SMART3-R are rated to IP54 and feature one man calibration via STS/CKD-PK calibration keypad.
MARKETS: Commercial, Residential

Data Loggers
T&D Corporation / BOOTH C7860
The TR-7W Loggers are battery powered temperature and humidity loggers with integrated Wi-Fi capability that supports automatic uploads to TandD’s FREE cloud based WebStorage Service. The WebStorage Service has been completely reworked for 2018. View and Share data online, receive warning e-mails when limits are exceeded, and download for local archiving. All with no monthly fees!
MARKETS: Commercial, Industrial, Institutional, Residential

CO2 Wall Sensor
Vaisala, Inc. / BOOTH C5131
GMW88 has a splash and dustproof IP64 rated enclosure. It is suitable for more demanding environments than normal wall mount CO2 sensors. This model adds to the Vaisala GMW80 series. Its patented CARBOCAP® sensor provides superior stability with a 5-year calibration interval and a product life up to 15 years. The devices are ideal for buildings occupied 24/7. They are ready for use immediately showing correct CO2 readings right after installation without any learning period.
MARKETS: Commercial, Industrial, Institutional

Gas Detection Instrument
Toxalert International, Inc. / BOOTH B2470
Model ToxControl is a customized and very flexible toxic and combustible gas controller. Panel face options can include audible indicators for warning, alarm levels, sensor malfunction, and LCD display of gas concentration. The ToxControl is also designed to monitor analog signal values from remote sensors for any number or combination of gas sensors. Designed to operate any number of fans depending on zoning requirements and is equipped with BACnet capability.
MARKETS: Commercial, Industrial, Institutional

Refrigerated Display Case Controller
Sporlan Division - Parker Hannifin Aftermarket AC and Refrigeration
BOOTH B2349
Sporlan’s S3C Series provides safety, security, and service for remote and self-contained cases (single or multiple coil). The series includes a case controller, display module, and valve module that all support open protocol communication via BACnet and Modbus. Sporlan’s mobile app, “Tech Check,” allows communication with the S3C system to enable proof of work, diagnostics, and sharing of data. The S3C facilitates installation and integration by the case OEMs as well as retrofitting existing cases.
MARKETS: Commercial

Internet-Enabled Thermometer
Wekslor Glass Thermometer Corporation
BOOTH B3874
Up to 130 thermometers can wirelessly send their temperature readings to a single gateway. The gateway is connected to a building’s wifi network and sends this data to “the cloud”. A user can use our app to see each thermometer’s temperature reading from anywhere in the world. More importantly, the user can set high/low set points for each thermometer. If a thermometer reading is too high or too low, an alarm notification will automatically be sent and the user will see this on the home screen of their phone. Also, the data for each thermometer is saved for up to 1 year so a person can see a graph of the temperature readings at different times of the day/ year to help determine system efficiency or assist in obtaining LEED certification.
MARKETS: Commercial, Industrial, Institutional

Room Pressure Controller
Triatek / BOOTH B1726
The latest version of the FMS Series Room Pressure Controller for critical environments features a landscape-oriented touchscreen, contemporary graphics, and a more intuitive menu that results in an improved user experience. This controller seamlessly integrates with Metasys® to allow facility managers to track data, analyze trends, increase energy efficiency and ensure their critical environments are kept safe. It includes Triatek’s patented Safety Halo™ edge lighting, which helps reduce audible alarm fatigue and easily communicate a room’s status down long corridors.
MARKETS: Commercial, Industrial, Institutional

Pressure Gauge
Winters Instruments / BOOTH B2051
StabiZIR™ gauges are dry gauges that come with a StabiZIR™ dampened movement that eliminates pointer flutter caused by vibration and pulsation. StabiZIR™ dampens vibration and pulsation, eliminates leaks and discoloration associated with liquid-filled gauges and can be used at higher temperatures than glycerin filled gauges. StabiZIR™ is engineered for hydraulic equipment, oil field equipment, pumps, compressors and process industries.
MARKETS: Commercial, Industrial

S3C Series Refrigerated Case Controls
Sporlan Division - Parker Hannifin Aftermarket AC and Refrigeration
SMART3-R
Sensitron S.r.l.

GMW88
Vaisala, Inc.

StabiZIR™
Winters Instruments
BACnet IP Thermostats and VAV Controllers
ABIES Technology, Inc. / BOOTH C5340
TBB-E BACnet IP Thermostats/ VCB-E VAV Box Controllers are used where LAN is available and required to provide high quality BACnet communication over the Ether. The BACnet IP open protocol makes the integration easy to implement while a variety of control options including VAV applications let HVAC controls move to a new era of networking capability.
MARKETS: Commercial, Industrial, Residential

CO2, Temp and RH Transmitter
AirTest Technologies Inc. / BOOTH C5400
The TR277-Eo from AirTest is a wireless, CO2, temperature and RH transmitter that is powered by indoor ambient light, making it ideal for zero energy/minimal environmental impact projects or applications where zero maintenance is required. The transmitter utilizes EnOcean Profile AS-09-04. Many control companies already offer inexpensive plug-in EnOcean gateways that translate the wireless signals to BACnet or other protocols. Fast and easy installation that is idea for retrofit projects.
MARKETS: Commercial, Institutional, Residential

CO2 Gas Sensor Module
Amphenol Advanced Sensors
BOOTH C5336
Telair® T675 Series is ideal for applications where CO2 levels need to be measured and controlled for indoor air quality and energy saving applications such as demand control ventilation. The T675 sensing method includes Non-Dispersive Infrared (NDIR), gold plated optics, diffusion sampling; in addition to, dual channel detector with self-calibration algorithm. It features flexible CO2 sensor platform designed to interact with other microprocessor devices and its compact design allows for simple product integration.
MARKETS: Commercial

Certification Program
BACnet International / BOOTH C5347
The BACnet Testing Laboratories (BTL) Certification Program was formed by the merger of the BTL Listing and WSPCert Certificate programs. It provides companies with a Certificate of Conformance, a BTL Listing and the right to use the BTL Mark. The BTL Mark has come to represent a high level of quality and conformance based on rigorous independent testing. The BTL Certification Program provides users with assurance that these products have been independently tested and have passed industry standard BACnet testing.
MARKETS: Commercial, Industrial, Institutional, Residential

Temp/Humidity Sensors
Building Automation Products, Inc. / BAPI / BOOTH C5252
The BAPI 900 MHz Wireless System is a suite of customizable temperature or temp/humidity sensors for nearly every area of a facility including room, duct, immersion, remote, outside air, freezer and coolers. The gateway receives the data from up to 50 sensor/transceivers and provides it to the BAS via multiple communication options including BACnet IP, TCP/IP and JSON.
MARKETS: Commercial, Industrial, Institutional, Residential

Gas Detection Devices
Acme Engineering Products, Ltd. / BOOTH B1360
The MultiPost gas detection system by Acme Engineering Products provides a solution to facilities managers wanting to view operational status within their buildings without the use of expensive proprietary systems. The availability of intelligent sensors and IoT (Internet of Things) interoperability means that Industry-specific interfaces like BACnet, will give way to cross-industry standards like Bluetooth and WiFi. Acme’s equipment will install/operate simply, include remote diagnostics, provide plug-and-play sensors, allow status visualization via any smart device, and permit logging for modeling analysis.
MARKETS: Commercial, Industrial, Institutional

Software
Automated Logic Corporation / BOOTH C5731
The WebCTRL v70 building automation system provides better insights for building operators to help improve occupant comfort, increase operational efficiency, and reduce costs. The new key features include robust custom reporting tools, color data mapping, fault detection & diagnostics reports and dashboards, building performance indicators, and support for high definition 1080p building graphics.
MARKETS: Commercial

Odor & CO2 Dual Controller
C.H.C. System Co., Ltd. / BOOTH B4490
The brand new dual controller, SMA-OVC-I, introduced by C.H.C. SYSTEM CO., LTD is the best device for easily managing ODORS and CO2 in indoor environments. It is designed for easy installation, measuring and monitoring in varied environments, from hospitals and nursing homes, to hotels, restaurants, sports facilities, and others demanding HVAC applications. Easily switch between models to control ventilation and keep good IAQ.
MARKETS: Commercial, Institutional, Residential

Smart Controller for Air Conditioners
Cielo WiGle Inc. / BOOTH C5570
Cielo Breeze Plus is a Smart Air Conditioner Controller which converts any AC to a smart AC (mini split, portable or Window) It is WiFi enabled and works with Freee-iOS and Android Apps named “Cielo Home” It is compatible with Amazon Alexa and Google Home. It is a plug & play (DIY) device which is simple to install and easy to use. You can control your air conditioner from anywhere, anytime through your smartphone. It is compatible with all major brands of ACs.

BACnet Supervisor
Contemporary Controls / BOOTH C5218
The BASpi BACnet Client Controller (BCC) turns an already powerful micro PC into a BACnet client and open Sedona controller without internal IO. It serves as a mini-supervisor to BACnet/IP server devices over Ethernet, or Wi-Fi and BACnet MS/TP devices over EIA-485. The BCC can be graphically programmed with a free Sedona editor while supporting Python scripting. Also included is a resident MS/TP protocol utility, weather component, sunrise/sunset indication, email alarming and scheduling.
MARKETS: Commercial, Industrial

BASE BACnet Client Controller (BCC) / Contemporary Controls

Ceiling-Mounted Sensor Array
Delta Controls Inc. / BOOTH C5307
The O3 Sensor® Hub is an integrated sensor array that mounts on the ceiling at the center of the room. With IR and digital sensors for temperature, humidity, CO2, motion, light, and sound, the O3 Sensor® Hub uses its optimal positioning to deliver enhanced sensing capabilities that keep the room comfortable and functional for occupants. O3 reduces installation costs, eliminates “wall acne”, and uses color and sound to communicate with occupants.
MARKETS: Commercial, Institutional
**IoT Edge Server**

*Echelon Corporation / BOOTH C5234*

The SmartServer™ IoT ushers in a new era in the convergence of Building and Industrial Systems, IT Networks, and Cloud Services. Echelon gives customers power to embrace existing industrial devices communicating over LON, BACnet, Modbus, M-Bus and other protocols; extend to emerging IoT and IP systems with a proven data layer and programmable interfaces; and enhance efficiency and ROI with insights from cloud-based analytics and artificial intelligence services through modern IoT messaging and connectivity protocols.

**MARKETS:** Commercial, Industrial, Institutional

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**Thermostat Management Software**

*ecobee / BOOTH C5442*

ecobee SmartBuildings is a thermostat management software for multi-site businesses and multi-residential buildings. SmartBuildings lets facility and property managers remotely control any number of thermostats across multiple locations. Managers can optimize for both comfort and savings, leverage alerts and notifications, and collaborate with team members to resolve issues right on the app. Compatible with any of ecobee’s award-winning smart thermostats. SmartBuildings is the ideal solution for retail, office, schools, hotels, restaurants, multi-residential buildings and more.

**MARKETS:** Commercial, Industrial, Institutional, Residential

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**Touchscreen Sensor**

*Distech Controls / BOOTH C5339*

This cutting-edge touchscreen sensor can be used for a wide range of HVAC, lighting, and sunblind applications. Its 3.5”, high-resolution capacitive touchscreen is easy to view and simple to use, allowing for the control of these applications using a single device. Furthermore, it allows for the wireless control of comfort from a mobile phone by using Bluetooth® low energy technology. Available with a choice in sensing capabilities (temperature, humidity, CO2) and color (black, white).

**MARKETS:** Commercial, Institutional

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**Energy Monitoring**

*eGauge Systems / BOOTH C5368*

eGauge Systems of Boulder, CO is proud to announce the release of the eGauge Core and Pro energy monitors featuring CTiD® Technology. CTiD® is a proprietary technology developed by eGauge Systems to streamline eGauge Meter installation and setup. CTiD® incorporates an auto-read function as well as an LED blink test. Attributes such as the current rating, size, manufacturer, and serial number are automatically read out, thus ensuring 100 percent accuracy and ease of installation.

**MARKETS:** Commercial, Industrial, Institutional, Residential

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**HVC Master Controller**

*Gaobiao IoT Technology Co., Ltd. / BOOTH C5101*

The MCpad features an 8” colorful touch screen, optional WiFi, IPS screen, Android system, 12V/24V/220V power supplies optional, Ethernet port, RS485 communication, and custom firmware used for different heating, cooling, ventilation control systems.

**MARKETS:** Commercial, Residential

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**IoT Platform**

*KMC Controls, Inc. / BOOTH C5324*

KMC Commander is an advanced Internet of Things (IoT) platform for enterprise-level building and operations management. The platform offers cutting-edge integration, analytics and visualization technology in real-time. From edge to cloud, it helps maximize operational efficiency, ensure comfort, assist occupant safety and minimize energy consumption. With the recent release of KMC Commander 2.0, the platform adds features such as additional supported protocols, new dashboard card types, multiple database navigation, enhanced user permission options and more.

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**MARKETS:** Commercial, Industrial, Institutional
Smart Thermostat Control
LUX Products Corporation / BOOTH C5330
LUX KONO Pro Edition smart thermostat has what HVAC pros want. Quick installation, push terminals, easy set up with or without WiFi and c-wire or LUX Power Bridge power option. KONO features 2nd stage offset and adjustable calibration and run time settings. KONO Pro integrates with voice assistants and geofencing. The new LUX app features contractor co-branding in app & a Pro installer app extending the LUX 5-year warranty to 7 years on KONO Pro.

B.M.S. Thermostat
Meitav - tec / BOOTH C5056
The MTSC thermostat is a stylish touch-screen thermostat with BACnet and MMBUS interface (DIP Switch selected) with built-in humidity sensor and CO2 sensor, enabling direct control on Fresh Air damper and dehumidifier. Suitable for Fan Coil and A/C applications and combine configurations with floor heating and electrical heaters.
MARKETS: Commercial, Industrial, Institutional, Residential

Building Automation Controller
Optergy / BOOTH C5225
P864 building automation controller has programmable Inputs & Outputs (controlled by BACnet IP/MS/TP, REST API). This smart controller can connect securely via a common web browser to engineer, commission and operate the system. A single P864 can be extended to add new 864e expansion modules which can add up to 744 hardware points. Contractors will love the ease of use and flexibility of a truly open system and only 3 parts to stock.
MARKETS: Commercial, Industrial, Institutional

Ethernet I/O Module with Router Function
Neptronic / BOOTH C6731
The CMMB-IP is a cost-effective I/O module with BACnet, Modbus and IP communication for easy integration of non-intelligent inputs and outputs. The CMMB-IP combines 20 inputs and outputs with your Building Automation System to provide simple expansion of a new or existing controller and reduces the unnecessary cost of additional components. The new CMMB-IP also communicates using a BACnet/UDP-IP or Modbus TCP-IP network.
MARKETS: Commercial

Air Curtain Controller
Powered Aire, Inc. / BOOTH B4539
The Auto-PILOT™ by Powered Aire Inc. is an intelligent, factory-programmed touchpad that replaces mechanical controls needed for air curtain operation. The user-friendly Auto-PILOT™ features multiple functions including air curtain actuation, fan/velocity control, heat/thermostat functions, time delay, and more. The compact touchpad is simple to install at any location and all that is needed is an Ethernet cable and a fingerprint to put any Powered Aire air curtain on Auto-PILOT™.
MARKETS: Commercial, Industrial, Institutional

Electromagnetic Flow Measurement Platform
ONICON Incorporated / BOOTH C5445
Exceptional Stability and Sensitivity - The highest accuracies available in an insertion meter. Accuracy and Performance Rivaling a Full Bore Magma meter at an insertion meter price. Full Profile Traverse Delivers Incredible Performance - Cuts straight run requirements in half. Multi-Variable Inputs - Allows multiple function capability including enhanced system analytics. Choice of Protocols - Native BACnet® MS/TP and MODBUS® RTU (RS485) serial communications. Sizes 6” - 12” Utilizing state-of-the-art DSP technology with multi-variable inputs.
MARKETS: Commercial, Industrial, Institutional, Residential

HVAC Graphics
QA Graphics / BOOTH C5058
Vector Symbol Library gives users access to high-end graphics and animations that realistically represent your mechanical systems. Graphics easily scale to any device size to view your BAS graphics without pixelization. Our custom designed SVG and animation symbols have similar symbols but with a different take on popular ones. Graphics are embedded within the control software to provide a consistent style on any BAS, helping facility managers spend less time assembling system graphics for mobile.
MARKETS: Commercial, Industrial, Institutional

Ball Valves and Actuators
Rub Inc. / BOOTH CS345
Rub Inc. CP compact power electric actuator is available with 2-way and 3-way ball valves from 1/4” to 1-1/4” for both AC and DC power supply. It is rated at 100000 cycle life test and it features corrosion resistant housing, visual position indicator, reversing motor, IP65 NEMA 4X enclosure, direct mount, and micro switches for open-close signals.
MARKETS: Commercial, Industrial

Booster System Software and BAS Systems Management
QuantumFlo, Inc. / BOOTH C6165
The world’s first Booster Operating System Software (BOSS), IQFlo 3.0 takes another quantum-leap in system control and BAS integration. IQFlo 3.0 eliminates surging, PID hunting and wind-up, seamlessly connects to your BAS with a single node, and for the first time ever, provides sensorless flow measurement! An exponential leap in pump technology!
MARKETS: Commercial, Industrial, Institutional

Gas Detection Instrument
Macurco Gas Detection / BOOTH C5034
The CX-6 is a dual Carbon Monoxide/ Nitrogen Dioxide Gas Detector. This detector is designed to detect vehicle exhaust in applications such as parking garages, car dealerships, fire/ambulance bays, maintenance shops, etc. The versatility of this product allows it to be used in multiple configurations: stand-alone, control system or tied back to a BMS. Macurco designs, develops and manufactures a full set of fixed and portable gas detection monitors for the protection of workers, responders and the community.
MARKETS: Commercial

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MARKETS: Commercial, Industrial, Institutional, Residential

Electric Energy Sub-Meters
Measurlogic, Inc. / BOOTH C5122
Measurlogic designs and manufactures a complete range of revenue grade AC & DC electrical sub-meters under the DTS name. The DTS 307 is an ultra-compact DIN rail mounting 3 phase power/energy meter with both BACnet MSTP and Modbus communications. This makes it ideal for easy integration into any building automation, energy management system providing both building owners and facility managers the necessary insight into their energy usage.
MARKETS: Commercial, Industrial

DTS 307 AC
Measurlogic, Inc.
Modbus to Wi-Fi Gateway
Sierra Monitor Corporation / BOOTH C5452
ProtoCast is a Modbus to Wi-Fi gateway for original equipment manufacturers (OEMs) that connects field equipment to the SMC Cloud. Now OEMs can cost-effectively connect all their field-deployed equipment to the cloud to improve customer care through remote monitoring, notification, and alarming. Our ProtoCast brings a new low-cost, entry level tool to OEMs transforming their business with Cloud-based services and support.
MARKETS: Commercial, Industrial

Wifi Thermostat
tekmar Control Systems, a Watts brand / BOOTH C6805
The Invita WiFi Thermostat makes upgrading easy by using the existing 2-wires from any living space to connect to an HVAC Interface Module in the mechanical room. It works with most types of heating and cooling systems including conventional, heat pump, and dual fuel while offering fan, relative humidity and ventilation control. The Invita Connect app provides secure WiFi adjustment and can send e-mail notifications if there are problems with the HVAC system.
MARKETS: Commercial, Residential

Intelligent Automation and Energy Management Platform
Telkön, Inc. / BOOTH C5162
Symphony is the first network-agnostic, enhanced-learning cloud automation platform for the Hospitality industry. Symphony’s capabilities include the ability to connect, automate and monitor all room devices. Symphony’s dedicated commissioning and reporting tool provides the ability to deploy IoT devices through a graphical editor and template driven integration delivering a full system test of the integration at completion. Symphony delivers a complete and fully scalable solution beyond anything else available on the market today.
MARKETS: Commercial, Industrial, Institutional

IP-Based Field Equipment Controller
Tridium Inc. / BOOTH C5118
Tridium’s Niagara Edge 10 is an IP-based field equipment controller powered by the Niagara Framework®. Niagara Edge 10 controllers support applications such as zone temperature control, fan coil units, air handling units, water-source heat pumps and more. By leveraging the Niagara Framework® Edge 10 offers 20000+ Niagara certified professionals a single open programming tool infrastructure, and the ability to create smarter, more efficient systems with world-class cyber security previously not available at the unitary controller level.
MARKETS: Commercial, Institutional
Niagara Edge 10
Tridium Inc.

Communicating Room Controller
Viconics Technologies Inc. / BOOTH C5041
WCM8000B is a plug-in module for VT8000 series Room Controllers that expose all BACnet points through Wi-Fi. Simple yet powerful, it allows wireless connectivity to any BACnet IP Building Automation System, a great retrofit solution! VT8000 with onboard ZigBeePro will handle both Wi-Fi and ZigBeePro connections, Wi-Fi for BACnet IP and ZigBeePro for wireless accessories. Use your mobile device to connect to VT8000 for commissioning, troubleshooting and more.
MARKETS: Commercial

Variable Frequency Drive
Yaskawa America, Inc. / BOOTH C5323
The HV600 builds on Yaskawa’s decades of experience providing variable frequency drives for HVAC applications. Specifically designed for building automation applications, the HV600 helps minimize energy costs and maximize occupant comfort. Set up is simple with its keypad display or Bluetooth connection to your mobile device using free DriveWizard Mobile. With all the features you expect for quick start up and reliable operation, the HV600 is the perfect choice for reliable fan and pump control.
MARKETS: Commercial, Industrial, Institutional

Ventilation and Indoor Air Quality Solutions
Air King America LLC / BOOTH B586
The QFAM provides a way to bring air into the home without having to go through an expensive and complicated installation. The QFAM includes a quantum controller that is set for temperature and humidity to ensure stress is not added to the HVAC system. A MERV16 air filter can be added to filter out pollutants before they enter the home.
MARKETS: Residential

Isothermal Humidifier
Carel USA / BOOTH B2255
CAREL’s new HeaterSteam titanium humidifier is the ideal solution for mission critical applications. The reliability of titanium heaters, combined with protection against overheating, make the HeaterSteam Titanium ideal for applications where service continuity is crucial (clean rooms, hospitals and museums) and very high precision is demanded (<1% around the relative humidity set point). This new version also encompasses the evolution of the CAREL pCD family of displays to provide a better user experience.
MARKETS: Commercial, Industrial, Institutional
HeaterSteam Titanium Humidifier
Carel USA

Packaged DOAS (dedicated outdoor air system)
Daikin Applied / BOOTH B3239
Rebel DOAS with CORE® pairs the ultra-high efficiency of Rebel’s inverter compressor, which maintains extremely consistent tempering of the ventilation air, with energy savings of the CORE®’s full enthalpy heat exchanger to provide clean, cool, dry air to the occupied space. The perfected combination of these technologies allows the HVAC installer to provide the highest quality of conditioned fresh air for most any and all applications while not having to compromise energy efficiency.
MARKETS: Commercial, Institutional

IAQ PRODUCTS (FILTERS, HUMIDIFIERS, ETC.)

Building Automation & Control Products
**Advanced UV-PCO Air & Coil Treatment System**

**Fresh-Aire UV / BOOTH B4048**

The all new APCO-X innovative new design offers a complete solution for indoor air quality including coil, air handler, drain pan and airborne disinfection, as well as odor/VOC control. The redesigned system is UL2998 verified to be zero-ozone emitting and features a new aerodynamically designed V-Twin Carbon/Titanium Ceramic Cell Matrix with 65% more active surface area. The matrix is treated with a new proprietary organo-catalyst designed for enhanced bio-contaminant inactivation.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Air Purification Unit**

**Global Plasma Solutions / BOOTH B4182**

The GPS-FC24-AC is a self-cleaning, universal voltage input, needlepoint ionization generator designed for fitting inside ductless mini-split ceiling cassettes and other small air handlers up to 2,400 CFM. The technology kills mold, bacteria and virus, reduces particles, and reduces TVOCs. Designed for fitting inside ductless mini-split ceiling cassettes and other small air handlers up to 2,400 CFM. The technology kills mold, bacteria and virus, reduces particles, and reduces TVOCs.

MARKETS: Commercial, Institutional

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**Smoke and Soot Coating for Remediation**

**Hardcast, A Carlisle Company / BOOTH B1856**

Hardcast Smoke & Soot is a spray-applied coating that resists microbial growth, locks down offensive particles, and removes odors from the air-stream of fugitive emissions from fire deposits below the detectable limit. Designed with an EPA-registered chemical package, this coating was engineered to be used on ductwork, insulation, and wall board that has been exposed to smoke and soot from a fire to negate the need to replace the entire duct by merely resurfacing the existing substrate.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Humidifiers**

**HygroMatik GmbH / BOOTH B853**

HygroMatik has introduced the new StandardLine and FlexLine humidifier series. Both are available with either electrode or heater element technology using cleanable/reusable plastic steam cylinders. HygroMatik humidifiers use exclusive technology designed to shed and evacuate mineral from the electrode/elements, resulting in highly reliable operation and significantly longer maintenance cycles. Long life cleanable/reusable plastic steam cylinders greatly reduce maintenance costs and waste. Waste to landsfills is reduced by nearly 90% over humidifiers using disposable plastic cylinders.

MARKETS: Commercial, Industrial, Institutional, Residential

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**UV Air Purifier Systems**

**Sanuvox Technologies Inc. / BOOTH B3216**

The Sanuvox Max Series represents the new evolution in UV air purifier systems. The high-efficiency patented design destroys airborne biochemical contaminants (viruses, germs, bacteria, mold, chemicals, odors and allergens), and its new Cobalt Catalyst Oxidation helps destroy VOCs. Installed into the return or supply plenum, the Sanuvox proprietary process maximizes contact time between the air and UV energy and has the ability to treat homes up to 2,000 sq. ft. (SR Max) and 4,000 sq. ft. (R Max).

MARKETS: Residential

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**Indoor Air Quality Monitor**

**SenseAir North America Inc. / BOOTH CS13**

Aercast is an advanced and versatile 3-in-1 transmitter designed for installation in either commercial building or residential home space. It accurately measures true CO2 concentration along with temperature, humidity in the ambient air without the need for additional compensation. The data is available to transmit to a BMS system or stand-alone controller using industry standard output signals and communication protocols (BACnet, BLe, LoRa, etc.).

MARKETS: Commercial, Institutional, Residential

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**Range Hood**

**Panasonic Eco Solutions, IAQ Ventilation Solutions / BOOTH B3261**

Panasonic’s WhisperHood IAQ™ combines superior capture efficiency with Panasonic’s renowned, ultrapure ventilation technology to quickly exhaust harmful air from kitchens without disturbing dinner conversations. Operating at 300 CFM with an AC motor, the WhisperHood IAQ is available in a variety of styles including ceiling mount, chimney island, chimney wall or cabinet insert. Additionally, the unit’s sleek and contemporary design and size options offer builders, remodelers and homeowners a range hood solution that seamlessly integrates into their kitchen design.

MARKETS: Residential

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**Non-Wetting In-duct Industrial Humidifier**

**Smart Fog Manufacturing / BOOTH B4181**

Smart Fog builds reliable non-wetting commercial humidifiers made in the USA. Precision, non-fluctuating humidity, low maintenance, easy, and low-cost installation are just some of the core features. Smart Fog employs the latest in antimicrobial technology, creating a safe and clean environment. MADE IN THE USA.

MARKETS: Commercial, Industrial, Institutional

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**Air Purifier**

**Ultravation, Inc. / BOOTH B971**

Solaris® PCO Air Purifier is a patented multi-technology air purifier that uses Active Photocatalytic + Silver Ion Oxidation, 4X-Plasma Generation, and Germicidal UV Light to target the entire range of indoor air pollution beyond filtration. Solaris eliminates odors, kills germs, reduces allergens, kills mold spores, and removes smoke. It features 2,400 square inches of active PCO purification surfaces—more than double any other purifier in its class. Lifetime equipment warranty and 2-year UV lamp warranty.

MARKETS: Residential

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**Smart Fog Manufacturing**

**TS100**
## Insulation Shields

**Anvil International** / BOOTH C6625

Anvil Quick Install Insulation Shields are made to accommodate movement of pipe generated by thermal expansion while cradling and protecting the pipe insulation. These shields eliminate insulation tears, refrigerant leaks, condensing and freezing. The new “Multi” design can accommodate attachment to multiple types of supports, from strut trapeze to clevis hangers to floor mount applications. They are made of high quality ultra-resistant polypropylene, and designed for a tool free installation.

MARKETS: Commercial, Industrial, Institutional

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## Outdoor Circulator

**AquaMotion Inc.** / BOOTH B1107

AquaMotion Aqua-Shield™ is a new product to the market. A water saving hot water recirculation pumpsystem for outdoor installation next to the outdoor installed tank-less heater without built-in pump. It eliminates the need for expensive intake air and exhaust piping to the heater. It features protective housing (tamper proof) against rain, humidity, and frost, has a timer, and a sensor that will save 7500 - 15,000 gallons of water per year.

MARKETS: Commercial, Institutional, Residential

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## Heat Transfer Fluid

**HydroMX** / BOOTH C8069

Hydromx® is a revolutionary heat transfer fluid that utilizes Nano-Thermo™ technology. Hydromx® uses nano-particles that are suspended in a stable state to increase the speed of heat transfer by heating up (or removing heat from) the fluid and transferring energy in a shorter amount of time; thereby requiring significantly less energy. Hydromx® is most suitable for closed-loop heating and cooling systems where efficiency is achieved by diminishing run-times of associated equipment. Hence, the life of the equipment is extended together with lower maintenance costs.

MARKETS: Commercial, Industrial, Institutional

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## Energy Recovery

**Polybloc AG** / BOOTH B855

Polybloc has introduced the new Vapobloc CV high efficiency membrane plate air to air enthalpy exchangers. The Vapobloc CV counter-flow design offers energy recovery efficiencies as high as 85% sensible and 78% latent. The exchangers are freeze-proof down to very low temperatures and freeze-tolerant at all temperatures. Vapobloc CV exchangers have leakage rates of < 0.5%, are washable, and are antibiotic in accordance with VDI 6022. They are also available with integrated face/bypass dampers.

MARKETS: Commercial, Industrial, Institutional, Residential

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## Solar Heat Exchange, Solar Heat Transfer

**SunEarth, Inc.** / BOOTH BC4916

The Solar Station HX converts any existing water heating system into a solar water heating system. The key to an effective solar water heating system lies in pulling the heat out of the collectors and putting it into your tank. It does this better than any other freeze-protected system. All valves, controls and cleaning ports fit neatly in one easy-to-maintain package. The Solar Station HX is quick and easy to install. Once the collectors are mounted on the roof, it is just a question of running the insulated lines and connecting to the Solar Station HX.

MARKETS: Commercial, Industrial, Institutional, Residential

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## Heat Recovery Chiller

**Multistack, LLC** / BOOTH C6853

Multistack’s Central Station Chiller/Heater marries True Variable Speed Scroll technology with our VME platform to deliver maximum heat recovery for your building, all while improving operating efficiencies by 20% or more. Not only does this ultra-efficient design allow you to use the heat you already own, it allows building designers ultimate flexibility when planning their system design.

MARKETS: Commercial, Industrial, Institutional

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## Outdoor Circulator

**AquaMotion Inc.** / BOOTH B1107

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MARKETS: Commercial, Institutional, Residential

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## Digital Mini System Feeder

**Axiom Industries Ltd.** / BOOTH C7747

The DMF150 is the newest Mini-Feeder added to Axiom’s already extensive System Feeder Family. The DMF150 utilizes a feature-rich, user-friendly digital pressure control and incorporates an integrated easy connect wall bracket, front-fill point, and top system connection all which help minimize space requirements.

MARKETS: Commercial, Industrial, Institutional, Residential

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## PP-RCT Piping System

**Asahi/America, Inc.** / BOOTH C8020

Asahitec™ PP-RCT is the latest advancement in polypropylene polymers, and has a wide range of benefits including greater pressure capabilities at higher temperatures than conventional PP materials. Asahitec™ includes both molded socket fusion fittings from 20mm – 125mm and molded large diameter butt fusion fittings from 160mm – 500mm. Complemented by Asahi/America’s extensive welding equipment fleet and valve product line, Asahitec™ is NSF 14-pw certified for potable water applications and ideal for HVAC and water distribution.

MARKETS: Commercial, Industrial, Institutional

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Fluid Pumps
GRI Pumps / BOOTH C8065
Designed for the circulation of fluids, GRI’s Integrity Series Magnetic Drive Pumps offer a flexible and robust pumping solution to HVAC applications. By manufacturing the variable speed, brushless-DC motors in-house, GRI has the flexibility to precisely configure an Integrity Series pump to meet an OEM’s specific flow and pressure requirements. The compact design eliminates motor bearings and leaves the impeller assembly as the only moving part, promoting long-life, quiet operation, and low power consumption.
MARKETS: Commercial, Industrial, Residential

PEX Tool
Oetiker, Inc. / BOOTH B723
HP 7000 / 485 One Handed PEX Clamp Crimping - Exclusive Instant Advance Technology™ quickly advances jaws in direct contact with the clamp on the first pump. Tool automatically resets upon completion. Easier on the hands – rugged multiple pump design reduces the necessary hand force. One tool crimps all sizes of PEX Clamps with only a few pumps. Designed by Oetiker® for Oetiker® PEX Clamps. Closes to ASTM F-2098 specification. Comfortable molded grips. Patent pending.
MARKETS: Commercial, Industrial, Residential

High-Efficiency Water Heater
PVI, a Watts brand / BOOTH C6805
PVI’s Conquest is a high-efficiency gas-fired, instantaneous water heater that combines an advanced fuel-saving design with extended product life. Built from durable, corrosion-resistant AquaPLEX® duplex stainless steel alloy, Conquest provides superior payback with 3-5 times the warranty of competitors. Now available in two additional sizes, the Conquest 900 and 1000 MBH provides more BTUs in a smaller space and the ability to be installed through a 36-inch doorway with minimal floor space requirements.
MARKETS: Commercial

Pressure Boosting System
Wilo USA LLC / BOOTH B3055
Wilo USA recently expanded its CO-Helix pressure boosting systems range to include a new 8-inch model. The systems combine Wilo-Helix V pumps with Weil Pump PLC panels and are NSF-61 and NSF-372 certified. The system offers real-time diagnostics and remote monitoring, variable speed control, and balanced run time for each pump. The booster packages are suitable for water supply, pressure boosting, agriculture, washing/sprinkling systems, cooling circuits, and condensate return.
MARKETS: Commercial, Industrial, Institutional

In-Line Check Valve
Bonomi North America, Inc. / BOOTH B4049
Bonomi’s new Series S250 in-line check valves feature a cold-formed 316 stainless steel body that gives users the highest Cv at the lowest cost. The metal forming process eliminates most machining and allows an improved flow profile inside the valve body to minimize heat loss. The Series S250 is an electron beam welded, creating a unibody for leak-free service. Available in six sizes, FNPT threaded from 1/2” to 2”.
MARKETS: Commercial, Industrial, Institutional, Residential

Ringers
caleffi Hydronic Solutions / BOOTH B4161
PLUMBVENT™ is a space-saving, low lead automatic air vent designed specifically to vent air from water at high points in hot water system piping, such as air elimination in domestic hot water storage tanks to reduce the potential for air lock. The NA5026 Series vent is ICC-ES certified to NSF/ANSI 372 (Drinking Water System Components), and complies with California Health and Safety Code 17935 S.3874 (AB1953) and Vermont’s ST52 low lead laws. It meets codes IPC, IRC and UPC for use in accordance with U.S. and Canadian plumbing codes.
MARKETS: Commercial, Industrial, Institutional, Residential

Electric Tankless Water Heater
Eemax Inc. / BOOTH B3217
SPEXSIZ FlowCo™ with SafeStart™ is a non-thermostatic electric tankless water heater ideal for handwashing & fixed-flow applications. It features real-time flow recognition which eliminates the wait for hot water. SafeStart™ technology protects against the occurrence of a dry-fire and the self-diagnostics actively protects the heater in the installed environment. The product can be mounted in any orientation and the InfoCue™ provides operation feedback via an intuitive LED indicator.
MARKETS: Commercial

Hot Water Recirculation Pump
Grundfos / BOOTH B1649
The ALPHA 15-55 HWR-D is a wireless on-demand hot water recirculation pump with a permanent magnet motor. The on-demand functionality allows the homeowner to signal when hot water is required significantly reducing both water and electricity consumption. The ALPHA 15-55 HWR-D is the only on-demand system of its type with a permanent magnet motor. With its simple plug and play installation and competitive price, it is the most complete offering in the marketplace.
MARKETS: Residential

Temperature Monitor
Holby Valve Inc. / BOOTH B3661
The HolbyMonitor tracks domestic hot water temperatures continuously at the system’s master mixing valve. The HolbyMonitor displays the tempered hot water temperature and will transmit an ALERT message if water temperatures exceed custom-selected temperature limits. ALERT messaging can be sent to multiple recipients via text message and/or email. Internal Auxiliary Contacts are available to activate remote annunciation devices, solenoid valves or as a status signal to a BMS System. Designed for long life and ease of installation, the HolbyMonitor uses wireless sensor technology, Cloud connectivity and the first Holby Valve Smart Phone App. The HolbyMonitor can also be used in Stand-Alone Mode as a data logging device with the NEW password protected keypad.
MARKETS: Commercial, Institutional, Residential

Pressure Boosting System
Reliance Worldwide Corporation / BOOTH B3103
The TESTRITE Inline DWV Testing System is THE game changer. TESTRITE is designed with versatility in mind and can be installed in no-hub cast iron, ABS and PVC pipe systems in 2", 3" and 4". TESTRITE meets all plumbing code requirements, is lab tested and IAPMO UPC/IPC listed. The system is rated for up to 50 feet of head pressure (about five floors). It also provides the ability to fill or drain-down the test water right at the point of the test tee.
MARKETS: Commercial

Low Lead Automatic Air Vent
Caleffi Hydronic Solutions / BOOTH B4049
PLUMBVENT™ is a space-saving, low lead automatic air vent designed specifically to vent air from water at high points in hot water system piping, such as air elimination in domestic hot water storage tanks to reduce the potential for air lock. The NAS026 Series vent is ICC-ES certified to NSF/ANSI 372 (Drinking Water System Components), and complies with California Health and Safety Code 17935 S.3874 (AB1953) and Vermont’s ST52 low lead laws. It meets codes IPC, IRC and UPC for use in accordance with U.S. and Canadian plumbing codes.
MARKETS: Commercial, Industrial, Institutional, Residential

HYDROPLUMB™ is a space-saving, low lead automatic air vent designed specifically to vent air from water at high points in hot water system piping, such as air elimination in domestic hot water storage tanks to reduce the potential for air lock. The NAS026 Series vent is ICC-ES certified to NSF/ANSI 372 (Drinking Water System Components), and complies with California Health and Safety Code 17935 S.3874 (AB1953) and Vermont’s ST52 low lead laws. It meets codes IPC, IRC and UPC for use in accordance with U.S. and Canadian plumbing codes.
MARKETS: Commercial, Industrial, Institutional, Residential

Hybrid Water Heating System
Rinnai Corporation / BOOTH B3375
The Rinnai Demand Duo 2 Hybrid Water Heating System has 2 commercial CU959 tankless water heaters connected to a 119-gallon tank. No need to purchase multiple tank water heaters; the Demand Duo 2 features built-in redundancy and storage for high spike draws. Equipped with DuoSmart Tank Technology, the pre-installed recovery pump, controller, isolation valves and electrical junction box work together to maintain consistent temperature, and lower acquisition, operating and life cycle costs.
MARKETS: Commercial

TESTRITE
Reliance Worldwide Corporation

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Rinnai Corporation / BOOTH B3375
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MARKETS: Commercial

Demand Duo 2
Rinnai Corporation

Pressure Boosting System
Wilo USA LLC / BOOTH B3055
Wilo USA recently expanded its CO-Helix pressure boosting systems range to include a new 8-inch model. The systems combine Wilo-Helix V pumps with Weil Pump PLC panels and are NSF-61 and NSF-372 certified. The system offers real-time diagnostics and remote monitoring, variable speed control, and balanced run time for each pump. The booster packages are suitable for water supply, pressure boosting, agriculture, washing/sprinkling systems, cooling circuits, and condensate return.
MARKETS: Commercial, Industrial, Institutional

CO-Helix
Wilo USA LLC
Software

AAF Flanders / BOOTH B2115

Total Cost of Ownership Diagnostic (TCOD)-Clean is interactive software developed through science-based algorithms. The software enables the user to minimize air change rate design, thereby optimizing room efficiency. The software is designed primarily for classroom applications in the Life Science, Microelectronics, Bio-Safety, Food & Beverage, and Healthcare arenas. However, TCOD-Clean also has the unique capability to identify particle pollution contaminants stemming from equipment and people in general ventilation applications, such as educational and office environments.

MARKETS: Industrial, institutional

Energy Management Information System

CopperTree Analytics Inc. / BOOTH B4769

Kazen Portfolio Energy Dashboard builds on CopperTree's existing automated Fault Detection & Diagnostics (FDD) software platform. It enables our clients to effectively undertake Monitoring, Targeting and Reporting (MTR) programs—
An energy management strategy aimed at proactively reducing energy costs while maintaining efficient building operations through a continuous improvement cycle. The system helps clients understand their energy consumption across entire portfolios of buildings. It also allows users to drill into single buildings and individual mechanical systems.

MARKETS: Commercial, Industrial, Institutional

Contractor Management Software

FIELDBOSS® / BOOTH B4632

FIELDBOSS is an end-to-end field service software solution built within Microsoft Dynamics 365 that resides in the Microsoft Cloud. Whether you are focusing on growing your business or trying to reduce the paperwork in the back office, FIELDBOSS can handle the most complicated contractor business challenges connecting your field technicians, your managers, your customers and your data. Win new business and keep customers happy by giving your people the tools to work closer together.

MARKETS: Commercial, Industrial

Building Performance Analysis

IES Ltd. / BOOTH B4777

The IES Virtual Environment (IESVE) is a powerful, in-depth suite of building performance analysis tools. IESVE 2019 brings greater capability and increased functionality that’s both in line with industry developments and in response to customer feedback. Key features include: New ASHRAE 90.1 Enhancements—Including updated EER (2010/2013) and PRM (2007/2010/2013) Reports; New VRF (Variable Refrigerant Flow) Capabilities; New DWH (Domestic Hot Water) Feature.

MARKETS: Commercial

Collaborative AHU Design, Sales & Manufacturing Platform

Kinetic / BOOTH B4760

Kinetic Air optimizes the process of engineering, selling and manufacturing air handling units in a unified, web-based collaborative platform that is customizable by the manufacturer’s in-house administrator without the need to customize the software and write any code. In a single integrated web-based environment, representatives, factory operations managers, factory personnel, purchasing, accounting, shipping and service team members, can all access hundreds or even thousands of projects simultaneously and perform various functions per the user’s individual role based permissions set by the manufacturer’s administrator.

MARKETS: Industrial

HVAC Performance Testing Software

National Comfort Institute (NCI) / BOOTH B4629

The AirMaxx Lite™ app is available for both Android and iOS devices. It features easy-to-use data entry and easy-to-display reports to homeowners. Now you can download this app onto your device and use this great tool for displaying an airflow grade for your customers. All you have to do is collect some simple nameplate information, then measure and input two static pressure values, and the app does the rest! The results are shown in graphs and wording that your customers can understand. All for free!

MARKETS: Commercial, Industrial, Institutional, Residential

Software for Revit

CTC Software / BOOTH B4679

Keeping up with CAD Technology Center’s long-standing tradition of quality tools on the cutting edge of AEC design technology, we are proud to announce the MEPPP V2.4. Revit MEP can prove to be a challenge to implement for any firm, especially when the firm is multidiscipline. The MEPPP V2.4 is a Revit starter project that combines the best of the existing MPP and EPP into one starter project where engineering data can be easily shared amongst disciplines. But we didn’t stop there, this is a new Revit user experience where all content, views, parameters and schedules are matched and balanced. Combined with workflows that take the user all the way through project setup to construction, Revit for MEP design simply works.

MARKETS: Commercial, industrial, institutional, residential

Field Service Management Software

FieldEdge - deSCO / BOOTH B4686

FieldEdge is the leading vertical SaaS business that enables contractors to run their small businesses with ease, save time and make more money through targeted marketing and improved resource utilization. FieldEdge has helped thousands of service-based organizations increase sales performance and overall workforce productivity by managing all aspects of their daily operations since 1980. Features include an all-in-one dashboard, a smart dispatch board, integrated payments and a real-time QuickBooks integration.

MARKETS: Commercial, Residential

Facility Analytics Software

ICONICS, Inc. / BOOTH CS443

Few organizations can afford to spend valuable employee time on continuously monitoring buildings and responding to alarms. Facility AnalytiX software enables ongoing commissioning of all building systems and assets, transforming many maintenance tasks into predictive rather than reactive, while AnalytiX dashboards focus users on the areas of greatest impact.

MARKETS: Commercial, Industrial, Institutional

Multiple Thermostat Manager

Emerson / BOOTH B2219

The Sensi™ Multiple Thermostat Manager is Emerson’s latest innovation to leverage IoT technology to help ensure human comfort and energy efficiency. Working in conjunction with Sensi™ Wi-Fi Thermostats, this software application manages and controls multiple heating and cooling systems through one convenient online portal, offering time savings for facility managers and energy efficiencies for properties managing multiple buildings and thermostats. Functions include batch scheduling, thermostat grouping, temperature, thermostat status, and humidity information.

MARKETS: Commercial, Institutional

Facility AnalytiX

ICO/WICS, Inc.

In the absence of regulation, facility managers struggle with the many challenges associated with maintaining efficient building operations through a continuous improvement cycle. The system helps clients understand their energy consumption across entire portfolios of buildings. It also allows users to drill into single buildings and individual mechanical systems.

MARKETS: Commercial, Industrial, Residential

Software

Airflow Science Corporation

BOOTH B4731

Azore 2.2 was recently released, providing an updated user interface to help CFD engineers evaluate their fluid flow predictions even more efficiently. Azore Software is a division of Airflow Sciences Corporation, an engineering design firm focused on simulation and laboratory testing since 1975.

MARKETS: Commercial

CFD Software

Azore CFD Software

Airflow Science Corporation

Accurate Air Quality Data

BreezeoMeter Ltd. / BOOTH B968

Far from providing a simple nearest-station model of just governmental station data, what most industry players offer: BreezeoMeter’s API uses computational models, machine learning and proprietary spatial interpolation algorithms to show what is in the air we breathe, and how to reduce exposure to harmful pollutants. Features include: dominant pollutant, pollutant concentrations, forecast, actionable health recommendation for population segment according to pollutant mix, real-time pollution heatmap, global and local air quality index, pollen counts, etc.

MARKETS: Commercial, Industrial, Residential

Flat-Rate Pricing App

Coolfront Technologies / BOOTH B4683

Coolfront Mobile is a zero-cost, flat-rate pricing app designed for HVAC, Electrical and Plumbing Contractors. Coolfront helps these businesses run a more profitable and efficient business.

MARKETS: Commercial, Residential

Energy Management Information System

Coolfront Technologies

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MARKETS: Commercial, Residential

Coolfront Technologies

MARKETS: Commercial, Residential

Coolfront Technologies

MARKETS: Commercial, Residential

Coolfront Technologies

MARKETS: Commercial, Residential
Marketing Platform
On Your Marketing, LLC / BOOTH B4641
Overwhelmed with attracting new customers? Introducing Journey 360: The Journey 360 Marketing Platform by HVACmarketing.com can help you get more inquiries and close more sales. Journey 360 gives you access to all the marketing tools & programs you need to grow your business and it gives you access to the dedicated talent you need to get things done. From online advertising, to marketing automation, content marketing, and reputation management, Journey 360 covers everything HVAC residential home service companies need to thrive in the digital age.
MARKETS: Residential

Analytics Software
Optigo Networks Inc. / BOOTH CS166
Visual BACnet Site Monitoring gives you vital insight into your network's health so you can troubleshoot, monitor, and service it. Track trends and network changes over time and get alerts if your network health changes. Use the fully integrated Visual BACnet to pinpoint problems so you can focus on fixing them. With Visual BACnet, no more resetting pesky routers or tracking down duplicate device IDs!
MARKETS: Commercial, Industrial, Institutional, Residential

All-In-One Financial Tool
Payzer / BOOTH B4740
Payzer is the all-in-one, cloud based financial software that helps contractors take credit cards and checks, offer instant financing, and manage recurring payments online and in the field. Payzer is trusted by over 4,000 contractors and currently processes over $1 billion in transactions per year. Payzer is an easy to use tool that you can use to grow your business without any monthly, sign-up, or cancellation fees.
MARKETS: Commercial, Residential

Duct Fabrication / Nesting Software
Shop Data Systems, Inc. / BOOTH B4529
ShopData Systems will be demonstrating its latest release of its nesting software, Version 4.2 as well as our new Roof Curb Adapter fabrication module. Whether you are a small shop cutting a few fittings, parts or running multiple tables two shifts, ShopData has the software package that suits your needs. ShopData's latest release is designed to be intuitive to use without sacrificing the power you need from a comprehensive duct fabrication/nesting software package. All designed with productivity in mind.
MARKETS: Commercial, Institutional, Residential

Field Service Management Software
Pointman / BOOTH B4655
Pointman is the only ‘mobile first’ operations management software for residential & commercial HVAC companies; it improves business operations from anywhere! This mobile app has powerful tools for customer management, scheduling, dispatching, estimates, invoicing, payments and more, accessible from any iOS or Android device. Companies are fully onboarded in less than a week, guided by Pointman’s dedicated staff. Through the app, any user can live-chat, call, or email Pointman’s team of product specialists at any time.
MARKETS: Commercial, Residential

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MARKETS: Commercial, Residential

Mobile Software App
ToolWatch Corporation / BOOTH B4778
ToolWatch announces the latest version of their mobile software for warehouse and field personnel! The Warehouse subscription is ideal for warehouse, yard, and job site trailer operations for Pick Tickets, Transfers, Search Express Check-In/Out and more. The ToolWatch Field App keeps field teams connected to your operational team with Requisitions, Search, and Tool Verifications. Available from the Google Play Store and the Apple App Store.
MARKETS: Commercial, Industrial, Institutional, Residential

Software as a Service
ServiceTitan / BOOTH B4737
ServiceTitan is a mobile, cloud-based software platform that helps home services companies streamline operations, improve customer service, and grow their business. ServiceTitan’s end-to-end solution for the multi-billion dollar residential home services industry includes CRM, intelligent dispatch, custom reporting, marketing automation, mobile solution for field techs, and accounting integration with Intacct and QuickBooks. ServiceTitan brings a fully operational modern SaaS infrastructure to an industry traditionally underserved by software. ServiceTitan is the preferred software for hundreds of the world’s most successful plumbing, HVAC, and electrical companies.
MARKETS: Commercial, Industrial, Institutional, Residential

HVAC Software
Smart Service / BOOTH B4748
Smart Service is a desktop application that adds scheduling, dispatching, routing, inventory management, equipment tracking, workforce monitoring, and much more to QuickBooks. This allows HVAC companies to streamline their operations and avoid double data entry.
MARKETS: Commercial, Industrial, Institutional, Residential

HVC Design Software
Wrightsoft Corporation / BOOTH B4555
Right-CAD® is a powerful 2D/3D HVAC CAD solution fully integrated for both residential and commercial applications. Powered by our unique geometry engine and smart objects, Right-CAD® automatically calculates to streamline the HVAC design process from load calculations to duct designs and parts take off, plus much more.
MARKETS: Commercial, Residential

Cloud-Based Management Platform
Vertiv / BOOTH B2521
Vertiv™ Intelligence is a scalable, cloud-based management platform that brings advanced visibility, analytics, and control to complex IT networks, including large enterprise and hyperscale facilities and those at the edge of the network. Vertiv Intelligence delivers holistic, customer-directed visibility and control of the entire network infrastructure through an easy-to-use app and online portal.
MARKETS: Commercial, Industrial, Institutional

Mobile Software App
ToolWatch Corporation / BOOTH B4778
ToolWatch announces the latest version of their mobile software for warehouse and field personnel! The Warehouse subscription is ideal for warehouse, yard, and job site trailer operations for Pick Tickets, Transfers, Search Express Check-In/Out and more. The ToolWatch Field App keeps field teams connected to your operational team with Requisitions, Search, and Tool Verifications. Available from the Google Play Store and the Apple App Store.
MARKETS: Commercial, Industrial, Institutional, Residential

Software as a Service
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MARKETS: Commercial, Industrial, Institutional, Residential

HVC Design Software
Wrightsoft Corporation / BOOTH B4555
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MARKETS: Commercial, Residential
Friction to expand the tubing, completely avoiding the SPIN Tools use high temperature through MARKETS: Commercial, Industrial, Institutional, Residential operates up to 50°F cooler, making easy work of liquid refrigerant, and the full-flow twin condensers reliable refrigerant recovery machine on the market. Appion G5Twin is known for being the fastest, most A longtime favorite of HVAC/R technicians, the Appion Inc. Refrigerant Recovery Machine Accutools - Core Enterprises Inc. A Simply Better Vacuum Hose. These hoses are very fast! TruBlu hose has a 3/4” internal diameter delivering 16 CFM of conductance speed at 1000 microns. Evacuate 80x faster than 1/4” ID hoses and up to 6x faster than other “vacuum rated” hoses on the market today. The TruBlu hose is extremely tough, ultra-smooth bored, yet the flexible wire reinforced PVC means it just won’t kink or collapse. TruBlu is resistant to abrasion and crushing and can be knocked back to round if accidentally flattened. Additionally, the UV conditioning has excellent weather resistance to provide years of reliable service. The proprietary polymer blend has extremely low air permeation, water vapor adhesion, and outgassing making this hose ideal for vacuum service. In short TruBlu’s ultra-smooth large bore reduces flow loss and other losses providing the fastest evacuation of any hose on the market today.

MARKETS: Commercial, Industrial, Institutional, Residential

TruBlu Professional Evacuation Kit

Accutools - Core Enterprises Inc.

Refrigerant Recovery Machine

Appion Inc. / BOOTH C7941

A longtime favorite of HVAC/R technicians, the Appion GSTwin is known for being the fastest, most reliable refrigerant recovery machine on the market. It’s also the only pump capable of handling straight liquid refrigerant, and the full-flow twin condensers ensure your job won’t slow down due to a clog. Combined with massive cooling airflow the GSTwin operates up to 50°F cooler, making easy work of even the toughest jobs on the hottest days.

MARKETS: Commercial, Industrial, Institutional, Residential

Refrigerant Leak Detector and Portable Monitor

INFINICON / BOOTH B2155

D-TEK® Stratus refrigerant leak detector and portable monitor combines the superior leak detection of INFINICON D-TEK leak detectors with the cloud hunting capability of a portable monitor in one hand-held unit. Users can use the cloud hunting mode to quickly locate the general area of the leak; then easily switch to pinpoint mode to find the exact leak location. A quick charge lithium ion battery and the newly redesigned infrared sensor are both field replaceable.

MARKETS: Commercial, Industrial

Hex Chuck Driver

Malco Products, SBC / BOOTH B1017

The introduction of the unique C-RHEX chuck driver in early 2017 was met with an enthusiastic market response. The time-saving advantages of a reversible 1/4” – 5/16 hex socket barrel and the enhanced reliability and performance that an easily-cleanable magnet feature brings to the job are obvious to every user. Malco has now patented this commonsense idea and in 2018, new 2-5/8” (MSH-LC), 4” (MSHMLC) and 6” (MSHXL C) lengths have joined the original 2” (MSHC-C-RHEX).

MARKETS: Commercial, Residential

Aviation Snips

Klein Tools, Inc. / BOOTH B1848

Klein Tools introduces Aviation Snips with an integrated wire cutter on the outside of the blades. No more drags to the snip blades when cutting duct wire or ceiling extension wire. Save time and tools with the convenience of just one tool that cuts sheet metal as well as duct and suspension wires! Integrated wire cutter is available on all three styles—right, left, and straight cutting.

MARKETS: Commercial, Industrial, Institutional, Residential

Tool Case

Fluke Corporation / BOOTH B1247

The Fluke Pack3D Professional Tool Backpack makes it easy to organize, transport, and access all the tools you need for the day. It features more than 30 pockets and pouches designed to hold a broad array of Fluke tools and accessories, as well as screwdrivers, pliers, tape rolls, and other hand tools. It also has a special pocket for tablets and laptops as well as storage for safety glasses, earplugs, cell phones, valuables, and more.

MARKETS: Commercial, Industrial, Institutional, Residential

Vacuum Pump

Fieldpiece Instruments, Inc. / BOOTH C6359

The VP85 vacuum pump is used to pull a vacuum prior to a technician charging an ac or refrigeration system. Some of the unique features are its four in-line ports in three sizes that allow for tidy hose routing and hose options. The RCTM DC motor provides smooth running in colder weather and lower voltage. The extra wide base helps prevent the pump from tipping and spilling oil. Its backlit oil reservoir clearly shows the condition of the oil, and the RunQuick™ oil change system enables technicians to quickly and easily change the oil while the pump is running without losing their vacuum.

MARKETS: Commercial, Industrial, Institutional, Residential

Zip Tie Machine / Professional System

Kelly’s 5 Distribution LLC / BOOTH C8052

The Cable Tie Gun KS 5 is indispensable, economical and reliable. With the professional KS 5 System, there is no need to have a different size zip tie, just one size for better and big resistance for all installations, and there is no limitation of diameter. Electricians, plumbers heating-cooling contractors, and engineers will save time with the professional KS 5 System.

MARKETS: Commercial, Industrial, Institutional

Quick Connection Tool

FasTest Inc. / BOOTH BC4913

FasTest’s new SMART quick connection tools—the “NeXT Series” — maximizes operator safety and process efficiency during leak testing and refrigerant processing. The NeXT incorporates Connection Verification Technology as well as integrated asset tracking and cycle counting capabilities that help manufacturers optimize their leak testing, refrigerant processing, and manufacturing processes.

MARKETS: Commercial, Industrial, Institutional, Residential, SmartService

Professional Tools

Greenlee / BOOTH B2109

Greenlee is excited to introduce the new Shear 30T, designed to increase productivity, improve precision, and eliminate the need for rework while cutting strut and threaded rod. It is the first mobile work station on the market capable of shearing back to back strut and multiple sizes of threaded rod. The Shear 30T has a powerful 30-ton ram that allows the unit to easily shear through tough materials with the unique die profiles.

MARKETS: Commercial, Industrial

Cast-in-Place Concrete Insert

Gripple, Inc. / BOOTH B2159

The new and improved version of the Gripple Spider Cast-in-Place Insert comes in two versions: one for metal deck and one for wood deck. Its innovative versatility allows the contractor to use this one insert with either threaded rod (via an adapter) or a Gripple Cable Hanger (with a Swivel Toggle end fixing) to suspend HVAC, Mechanical, or Piping services. The Spider is load rated up to 3,000 lbs per suspension point, with a 31 safety factor.

MARKETS: Commercial, Industrial, Institutional

FLX Cast-in-Place Concrete Insert

The new and improved version of the Gripple Spider Cast-in-Place Insert comes in two versions: one for metal deck and one for wood deck. Its innovative versatility allows the contractor to use this one insert with either threaded rod (via an adapter) or a Gripple Cable Hanger (with a Swivel Toggle end fixing) to suspend HVAC, Mechanical, or Piping services. The Spider is load rated up to 3,000 lbs per suspension point, with a 31 safety factor.

MARKETS: Commercial, Industrial, Institutional

 aviation Snips with Wire Cutter, Straight

Klein Tools, Inc.

Hex Chuck Driver

Malco Products, SBC / BOOTH B1017

The introduction of the unique C-RHEX chuck driver in early 2017 was met with an enthusiastic market response. The time-saving advantages of a reversible 1/4” – 5/16 hex socket barrel and the enhanced reliability and performance that an easily-cleanable magnet feature brings to the job are obvious to every user. Malco has now patented this commonsense idea and in 2018, new 2-5/8” (MSH-LC), 4” (MSHMLC) and 6” (MSHXL C) lengths have joined the original 2” (MSHC-C-RHEX).

MARKETS: Commercial, Residential
**Service Tools and Equipment**

**Mastercool Inc. / BOOTH B3648**

This leak detector has a new low power metal oxide gas sensor with superior performance properties such as lower current consumption and sensor longevity. The new sensor is characterized by high sensitivity and fast response upon detecting the presence of extremely small levels of chlorofluorocarbon gases. In addition, a powerful microprocessor was integrated into the design that automatically selects the best operating condition for the sensor to ensure optimum performance throughout the life of the sensor. Super Sensitive Function allows the unit further sensitizing beyond the standard settings for locating small leaks with gases such as R1234yf and R407C. Its flexible 15’ probe and intelligent tip design senses the condition of the environment to eliminate the potential of false alarms and it detects all refrigerants.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Midwest Tool / MIDWEST SNIPS®**

**Model: MWT-CDT01 Cleat Driver Tool**

The M8™ Short Throw Press Tool is the industry’s first press tool optimized for residential installations. The fastest press tool on the market. The M8™ Short Throw Press Tool presses 40% faster than competition, delivering force optimized for PEX installation, and eliminating downtime caused by calibration intervals.

MARKETS: Residential

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**Press Tool**

**Milwaukee Tool / BOOTH C6841**

**M18™ Short Throw Press Tool**

Milwaukee Tool

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**Copper Pipe Connectors**

**Parker Hannifin - Sporlan Division**

**BOOTH B2349**

Until now, contractors relied on brazing as the way to join copper refrigerant lines. Brazing requires highly paid trained technicians, fire permits, fire spotters, brazing tools and gases, nitrogen purging, and more. ZoomLock Flame-Free Refrigerant Fittings install in ten seconds with no more flames, no more nitrogen purging, no more fire spotters, and no more leaks. Contractors using ZoomLock report reduced time and labor costs by 40-60% resulting in more money on their bottom line.

MARKETS: Commercial, Institutional, Residential

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**PEX Installation Tool**

**PEXGUN / BOOTH C5724**

The PEXGUN is a handheld, fast and lightweight PEX installation tool that automatically ties PEX to rebar or wire mesh in less than one second. The PEXGUN installs PEX up to 5 x’s faster compared to other installation methods. The PEXGUN is powered by a 14.4V Lithium-Ion battery and generates over 2000 wire ties on one battery charge. Easy one hand operation reduces the potential risk of carpal tunnel injuries and the use of an optional extension arm reduces the risk of back injuries. Reduce labor costs by up to 50% or more with the use of the PEXGUN.

MARKETS: Commercial, Industrial, Institutional, Residential

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**Portable Electric Pipe Threading Machine**

**REMS GmbH & Co KG / BOOTH C7561**

Powerful, easy-to-operate electric tool for pipe threading with unique support bracket. Ready to use anywhere, without vice. Ideal for repair, renovation, job site. Pipe threads ¼ – 2” and Bolt threads ¼ – 1”.

MARKETS: Commercial, Industrial

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**Work Lights**

**Maxxeon Inc. / BOOTH BC4919**

This cordless, rechargeable light produces 700 lumens on high and offers run times from 2 hours to 7 hours depending on light output setting. A handy 150 lumen penlight adds flashlight capability and runs for up to 7 hours. The powerful magnetic base secures the light to metal surfaces and allows the light to be angled through a 180 degree range to illuminate the work area. A retractable hook adds versatility and convenience. Includes 120V and USB charger.

MARKETS: Commercial, Industrial, Institutional, Residential

Model 3000 Cordless Rechargeable Technician’s Work Light
Maxxeon Inc.

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**HVAC Hand Tool**

**Midwest Tool - Midwest Snips®**

**BOOTH B1039**

The Cleat Driver Tool is a new way for sheet metal workers to install drive cleats more efficiently and with less shoulder strain. This tool is designed to work with SDS & SDS Plus rotary hammer drills that have the hammer only mode. Simply install the tool and drive the cleat on or off while decreasing muscle and shoulder fatigue and increase your productivity.

MARKETS: Commercial, Industrial

Model: MWT-CDT01 Cleat Driver Tool
Midwest Tool - Midwest Snips®

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**PP-R Saddle Socket Fusion Machine**

**Ritmo America LLC / BOOTH C6779**

RITMO’s special PP-R saddle socket fusion machine, the Prisma Up 90, welds special PP-R joints like collectors and reduced branches. Working range of the main pipe is 40 – 630 mm, and branch pipe is 20 – 90 mm. Benefits: Universal for all major pipe & saddle fitting brands; Versatile to work in various positions such as horizontally, vertically, and upside down; Only one operator; Self supporting; Compact & lightweight; Accurate perfect axiality drilling & fusing operation; Designed to fit in tight installation; Auto centering clamps.

MARKETS: Industrial

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**Temperature and Pressure Measurement System**

**REFCO Manufacturing US Inc. / BOOTH B1253**

The TAP temperature and pressure measurement system calculates and displays Superheat and Sub cool values right on the pressure gauge and temperature clamp display. No need to use an app if you do not want to. No other system like this works without having the app on your mobile device. REFCO does have an app to create reports on your mobile device but it is not required as you can get your calculations on the spot!

MARKETS: Commercial, Industrial, Institutional, Residential

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**Ritmo Amigo 2 Compact**

REMS GmbH & Co KG

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**ZoomLock Flame-Free Refrigerant Fittings**

**Parker Hannifin - Sporlan Division**

**BOOTH B2349**

ZoomLock Flame-Free Refrigerant Fittings
Parker Hannifin - HVAC Filtration Division • Sporlan Division - Aftermarket AC and Refrigeration

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MARKETS: Commercial, Industrial, Institutional, Residential

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**TAP**

**REFCO Manufacturing US Inc.**

TAP Temperature and Pressure Measurement System

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Coil and Surface Cleaner
SpeedClean, LLC / BOOTH B2161

The Dry Steam Coil & Surface Cleaner uses high temperature steam to efficiently clean coils and other surfaces. It can be used on air handlers, mini-splits, condensers and exhaust vents, commercial kitchen ducts, freezer seals, classrooms, labs and more. It is ideal for water sensitive surfaces since minimal water residue remains after cleaning and sanitizing. The cleaner uses 95 percent less water than when using water and chemical cleaning combinations.

MARKETS: Commercial, Residential

Dry Steam Coil & Surface Cleaner
SpeedClean, LLC

Collaring Machine
T-DRILL Industries, Inc. / BOOTH B1948

HFT is capable of producing tees ½” NPS – 1½” NPS in run pipes 1” – 4” NPS. T-DRILL tees give the most reliable tube joints being used with the most extreme applications. The tee forming unit is manually moved by the operator after each tee is produced. Based on easy “pin-to-hole positioning,” it is very productive on standard manifold production. To make the process even easier, there is also an optional digital measuring display available.

MARKETS: Commercial, Industrial, Residential

HFT-2000
Stainless Steel
T-DRILL Industries, Inc.

Corrugated Stainless Steel Tubing
Tecvalco Ltd. / BOOTH B3587

The innovative Diamondback® Flexible Gas Piping features less corrugations than similar products which results in greater flow of natural gas or liquid propane. This provides opportunities to utilize smaller diameter pipe – saving you time, money, and making you more competitive! As an added bonus, the Diamondback is more rigid than other products, and flexes less inside the building. The end result is faster and cleaner installs with a more economical product!

MARKETS: Commercial, Residential

Diamondback CSST
Tecvalco Ltd

Construction Layout Software
Topcon Positioning Systems, Inc. BOOTH B4669

Increase your construction layout productivity with MAGNET Field Layout software used with robotic total station and GPS instruments. MAGNET software simplifies the layout process whether you start your workflow from printed plans, PDF’s, or fully coordinated Building Information Models. The latest MAGNET 5 software release increases Autodesk integrations to better connect field with office and increase data compatibility.

MARKETS: Commercial, Industrial, Institutional, Residential

MAGNET Field Layout
Topcon Positioning Systems, Inc.

Hand and Tool Wipe
Verax Chemical Company / BOOTH C7959

Works where other wipes won’t: removes grease, spray paint, coffee stains, permanent marker, pitch, label residue, carpet spots, varnishes, and more. Use on a variety of surfaces: ductwork, windows, tools and equipment, counters, heavy machinery, and more! More cleaning power than any other wipe on the market. DYNA-WIPES® are loaded with cleaning solution. Safe for hands. Contains four skin conditioners: Vitamin E, Aloe, Lanolin, and Glycerin.

MARKETS: Commercial, Industrial, Institutional, Residential

DYNA-WIPES® 120 CT
Verax Chemical Company

Ultrasonic Leak Detector
Superior Signal Company LLC

Perfect for hard to reach places, the AccuTrak® VPE-GN helps find refrigerant, gas or compressed air leaks. The new 3rd Generation AccuTrak® VPE-GN features all-new digital circuitry, offers 20% greater sensitivity to find even smaller refrigerant and gas leaks! New design also adds Peak Hold Display, Over Range Audio Alarm, Smart Battery Management and greater shock resistance for the most rugged and reliable AccuTrak® VPE-GN ever. Offered in a number of kits to meet professional requirements.

MARKETS: Commercial, Industrial, Institutional, Residential

VPE-GN
Superior Signal Company LLC

TOOLS & CONTRACTOR SUPPLIERS
**Drives**

**ABB / BOOTH B1839**

ABB’s newest drive family for the HVAC market, which includes both the ACH480 and ACH580, is designed for quick and easy setup. Configured for a wide variety of HVAC applications, the drive family is well-suited for the simplest fan, pump, or compressor application through the most demanding. Providing seamless integration and flexibility with solutions for virtually all HVAC drive applications, including critical facilities, intelligent buildings, locations with seismic or harmonic-sensitive environments, and OEM equipment.

MARKETS: Commercial, Industrial, Residential

ACH580

ABB

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**Washers and Pipe Flashings**

**Aztec Washer Company / BOOTH B3883**

Aztec Washer Company, Inc. has served the building and construction industries for 50 years. Master Seal® Washers are bonded through a unique process that allows for optimal resistance to weathering from ozone, ultraviolet light. Master Flash® pipe flashings are suitable for use with double-wall heated pipes as well as many other applications such as electrical, plumbing and solar. Their parts are exceptional as evidenced by an ICC listing, CSA listing, UPC and ISO 9015 certification.

MARKETS: Commercial, Industrial, Residential

**Security Grilles & Diffusers**

**Carnes Company, Inc. / BOOTH B648**

Carnes offers a comprehensive line of grilles and diffusers (including suicide deterrent or risk resistant products) for minimum, medium, maximum, and behavioral security applications that meet requirements for products to be “Made in America.” Applications include prisons, juvenile detention centers, psychiatric areas, and hospitals. The suicide deterrent products are listed with the NY State Office of Mental Health and meet the standards for California Title 24 and National Institute of Corrections Guidelines for Suicide Prevention.

MARKETS: Commercial, Industrial, Institutional

RSPA41, 44, 51
Carnes Company, Inc.

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**Structural Support**

**Chicago Clamp Company / BOOTH B3884**

The Framing Clamp System is the ideal choice for providing structural support to your rooftop equipment and openings. Chicago Clamp’s bolted system is easier to install and provides greater flexibility than the traditional welded angle frame methods. Tenant remodel projects can now be completed safely and free from welding hazards.

MARKETS: Commercial, Industrial, Institutional

**Dehumidification System**

**Desert Aire LLC / BOOTH C6853**

Designed specifically for large 50-meter indoor pool, natatorium, and water park applications, the Desert Aire SelectAire Plus™ (SP) Series Dehumidification System incorporates proprietary energy recovery technology and adds features for applications that require superior cabinetry, state-of-the-art fan design, and next-generation control features for enhanced setup and serviceability. Available for indoor or outdoor installations, Desert Aire’s SelectAire Plus™ (SP) System offers complete humidity and temperature control, exhaust air energy recovery, and automatic air balancing.

MARKETS: Commercial, Institutional

Desert Aire's SelectAire Plus™ (SP) System

**Spot Welder**

**Duro Dyne Corp. / BOOTH B2861**

Duro Dyne’s new Free Standing Spot-welding Machine will weld metal from 30 gauge to 11 gauge. It features a specially designed transformer that no longer needs to be water cooled. There is a pump that cools the welding tips so there are no burning hazards. A cooling fan operates to disperse any heat build-up. There is both a back regulator and front regulator to coincide with the weld time.

MARKETS: Commercial, Industrial, Institutional

**Duct Straps / Cable Ties**

**Hua Wei Industrial Co., Ltd. / BOOTH C8039**

With lengths from 17” - 60”, these duct straps are not only suitable for use on HVAC ducts, but are also great for bundling large cable or wire bundles. Straps are heat stabilized, weather resistant, and heavy duty.

MARKETS: Commercial, Industrial, Institutional

Desert Aire LLC

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Mastic Foil Tape
Ideal Tape Co., Inc. / BOOTH B3574

Ideal Seal 3000 is a mastic foil tape designed for use as a vapor seal on class I flexible duct, sheet metal, duct wrap, and duct board. The polyester liner is easily removed enabling efficient application on the job site. This tape provides a strong water resistant and airtight seal and is suitable for use across a wide variety of environmental conditions.

MARKETS: Commercial, Industrial, Institutional, Residential

Quick Connect Coupler
Nitto Kohki U.S.A., Inc. / BOOTH C7752

Nitto Kohki’s PCV Pipe Cupla is an effective and reliable solution of fluid line connection in HVAC component production and testing. It functions as a valve gate to connect the filling and vacuum line to each product by clamping directly on to a straight copper pipe. Double seal construction withstands a vacuum up to 001 mmHg and high pressure up to 4.5 MPa/653 PSI. Choices are available with different seal material types and in different sizes.

MARKETS: Commercial, Industrial

PCV Pipe Cupla
Nitto Kohki U.S.A., Inc.

Stair Climbing Hand Truck
PowerMate® / LP International Inc. / BOOTH B4038

The PowerMate Motorized Stair climbing Hand Truck does 100% of the lifting which virtually eliminates risk of back injury while reducing the effort to move heavy, awkward loads by more than 87%! PowerMate Hand Trucks safely power products up & down stairs, on & off delivery vehicles, loading docks, and in & out of buildings. Save time, money and your back!

MARKETS: Commercial, Industrial, Institutional

Pipe Joining
Victaulic / BOOTH B3453

Victaulic’s QuickVic™ SD Installation-Ready™ System is the most economical and efficient plain end pipe joining method for carbon steel systems sized 2” and down. It offers a significant total installed cost savings when compared to current pipe materials and installation methods. Available in sizes ½” to 2”, QuickVic™ SD can be used on Schedules 10 through 80 carbon steel pipe and has a maximum working pressure of 300 psi/2068 kPa and temperature rating of 250°F/120°C.

MARKETS: Commercial, Industrial

Fire Protection Equipment
Unifrax I LLC / BOOTH B1010

FyreWrap® provides solutions for a variety of passive fire protection applications in commercial building applications. Unifrax Engineered Thermal Components engineer Thermfrax™ insulating shapes formed from high temperature fibers for several industrial, hearth and automotive industry applications. The Fiberfrax®, ceramic fiber product line, and revolutionary Insulfrax® and Isofrax® low bio-persistent fiber products, along with Saffil® polycrystalline wool fibers, and specialty glass fibers, are available in a variety of product forms for thermal management and filtration applications for a wide range of industries.

MARKETS: Commercial, Industrial, Institutional, Residential

Magnetic Filtration
Wessels Company / BOOTH B1661

Wessels type WMA Magnetic Filtration filter bag magnets, are designed for attracting ferrous particles from liquid flow, increasing filter bag life. The high strength Neodymium rare earth magnets are housed in a stainless sleeve, and are fully removable to aid in removing the collection of iron residue.

MARKETS: Commercial, Industrial

Wessels Magnetic Filtration
Wessels Company

Chemical-Free Water Treatment Systems
Superior Manufacturing Corporation / BOOTH B1771

Chemical-free water conditioners control scale and corrosion in boilers, cooling towers, and over 400 other water-using applications. Chemical-free fuel conditioners increase efficiency and reduce pollution in gas and liquid fuel open flame applications, such as boilers, furnaces, ovens, etc.

MARKETS: Commercial, Industrial, Institutional, Residential

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MARKETS: Commercial, Industrial

PowerMate® / LP International Inc.

Victaulic

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