



# 2009 readers' choice awards

RSES Journal's third annual Readers' Choice Awards were presented during the AHR Expo in Orlando, FL, Jan. 25–27, 2010. As in previous years, the 2009 Readers' Choice Award winners were chosen by RSES Journal's readers in the form of inquiries sent via mail, e-mail fax and online to a third-party reader-service management company. Using the reader service numbers assigned to the products listed monthly—in the form of advertisements/advertiser perks, features, product write-ups and online advertisements—the company provides a final tally for every product. Following are the top 25 products that the highest number of reader inquiries during the 2009 calendar year. [Editor's Note: The number of awards varies each year depending upon products that have the same number of inquiries.]

## American Standard

The **AccuLink communicating technology** in American Standard 20-SEER efficiency systems digitally enables automatic and proper HVAC-system configurations without the need of a special kit to adapt the controls. Systems run their own self-diagnostics to ensure the proper air flow for heating and cooling modes, as well as the correct heat-source configuration, blower timings and humidity control. A Charge Assist feature automatically delivers the precise amount of refrigerant needed and then shuts itself off. **Circle 1 on the reader service card.**



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## A.O. Smith Electrical Products Co.

A.O. Smith Electrical Products Co.'s **Green Choice motors** are designed to

address today's environmental concerns. The Juggernaut, 3-in-1 and iMotor are the first motors released under the Green Choice brand to aid contractors and retailers in their quest to reduce energy consumption in refrigeration applications—saving energy by reducing the amount of electricity needed. **Circle 2 on the reader service card.**



## Arkema Inc.



Arkema's **Forane 427A refrigerant** is an HFC-refrigerant alternative for existing HCFC-22 applications, such as retail food refrigeration, industrial process air-conditioning, chillers,

residential and light-commercial air-conditioning, and heat pumps. In addition to having comparable performance to HCFC-22, Forane 427A is one of the lowest GWP retrofits available on the market today. **Circle 3 on the reader service card.**

## Aspen Compressor LLC



Aspen produces a **rotary dc compressor** that is exceptionally

compact yet has a cooling capacity of up to 1,800 Btuh. Weighing just 1.3 lb and standing less than 3 in. tall, the unit provides more capacity than compressors 10 times its size. It is perfect for the difficult conditions presented by mobile refrigeration applications. **Circle 4 on the reader service card.**

## ComStar

ComStar's *Copper Lock* requires no heat to solder copper pipe and copper/brass fittings together, and is easy to apply. Sand the areas to be joined, apply a small amount of Copper Lock to the fitting and pipe, insert and turn the pipe 180 degrees or more. Wait 30 seconds prior to handling; pressure tests can be conducted after two minutes.

Circle 5 on the reader service card.

## Danfoss Turbocor Compressors Inc.

Danfoss Turbocor Compressors Inc. expanded its line of HVACR *high-efficiency, oil-free centrifugal compressors* to include larger-capacity equipment.

The TT500, the largest-capacity machine, delivers a nominal 210 tons (700 kW) of cooling capacity and—like the company's TT300 and TT400 units—is predominantly designed for chiller applications. The TT350 can be used for higher pressure ratios, specifically in air-cooled applications and has a nominal cooling capacity of 120 tons (400 kW). Circle 6 on the reader service card.

## Digi-Cool Industries Ltd.

The *Digital Refrigeration System Analyzer 1250* from Digi-Cool features backlighting so technicians can finish working on that rooftop unit while the sun sets; 30 refrigerants on board to



automatically calculate superheat and subcooling; and dual temperature probes to easily read SH, SC and  $\Delta T$ . For mechanics in high-altitude areas, the DRSA 1250 can be zeroed manually. Circle 7 on the reader service card.

## Elsevier

Elsevier's *RSES eLearning* provides high-quality online training created by leading HVACR experts that work developing core technical skills and advances industry knowledge. Online courses allow technicians to learn at their own pace and earn CEUs and NATE CEHs. Course content is engaging, interactive and presented in a clear step-by-step format. Take the free trial today at [www.rselearning.org](http://www.rselearning.org). Circle 8 on the reader service card.

## Fieldpiece Instruments Inc.

Fieldpiece Instruments' *SOX2 Combustion Check meter* gives technicians flue-gas oxygen percentage and stack temperature. It also calculates carbon-dioxide percentage and excess air percentages for natural gas, oil and propane. This data is all the field



service technician needs to tune most combustion equipment to manufacturer's specs. Circle 9 on the reader service card.

## Fluke Corp.

Fluke Corp.'s *289 industrial-trending digital multimeter* features: ghost voltage-detection; filters for VFD output readings; and onscreen help. The 289



DMM provides the usual measurement functions—V ac/dc, ohms, capacitance, A ac/dc—and the meter can monitor a circuit while the technician is busy elsewhere, then return and view a TrendCapture display of the circuit's performance. An info button offers an alternative to the need to carry a manual or reference card around. Circle 10 on the reader service card.

## GeneralAire

The *VectorFlo PCO2450 air purifier* features a patented semiconductor that delivers a high-performance kill rate unmatched by other ultraviolet air-treatment brands. The unit's design creates a low-pressure zone around a high-output UVC germicidal lamp. Airborne germs, bacteria and gaseous contaminants are slowed in the air stream, where they are introduced to a highly effective photocatalytic air-purifying process. Circle 11 on the reader service card.



## Honeywell International

Honeywell International's **TrueDRY dehumidification systems**—the DH65 for smaller homes or tight installation spaces; and the DH150 for larger spaces—can



be ducted centrally for the whole house, or installed without ducts for

basements or crawl spaces. Built-in ventilation introduces fresh, filtered air into the home, and stale, moist air is removed. The systems feature MERV-11 filtration, which helps extend dehumidifier performance and efficiency. **Circle 12 on the reader service card.**

## ICOR International Inc.

**One Shot refrigerant**—an affordable, non-ozone-depleting refrigerant from ICOR International—replaces R-402A, R-402B, R-404A, R-408A, R-502, R-507A and R-22 refrigerants in low-temperature applications. One



Shot is ready for use in both new and legacy systems, and is available through wholesale distributors nationwide. **Circle 13 on the reader service card.**

## Intac International Inc.

Intac International offers its **Wintac Pro business-management software** for HVACR contractors. With its all-inclusive design, Wintac Pro combines the functionality



of several programs into one integrated system, including customer-relationship management; field-service management; contact management; vehicle management; and accounting. **Circle 14 on the reader service card.**

## Johnson Controls Inc.

Source 1 of Johnson Controls Inc. offers **fractional horsepower motors**



with features and benefits of standard motors plus multiple horsepower, which can be a replacement for a variety of OEM motors in several voltages, applications and speeds. An electrical revers-

ing plug simplifies rotation direction changes; and partial stripping leaves the insulation on the motor connection wire—this protects the stranded copper wire and prevents damage to individual strands. Also, extended mounting bolts provide easy installation in cramped spaces. Motor boxes are color-coordinated by motor type. **Circle 15 on the reader service card.**

## LAMA Books

LAMA Books **HVAC Web Store** offers easy-to-understand books written by top HVAC expert Leo A. Meyer. Troubleshooting, certification, training and more, LAMA has the largest selection of personally recommended HVACR books. All books feature clear, factual writing; job-based information, with only the necessary



technical terms or equations; useful and logical organization; and principles for solving problems and troubleshooting. **Circle 16 on the reader service card.**

## Mainstream Engineering Corp.

**Qwik System Flush** uses Mainstream Engineering's patent-pending formula-



tion developed for safe use by the U.S. Air Force. This HVACR flushing solvent cleans refrigerant linesets after burnouts and before refrigerant conversion. It also leaves no residue; flushes more oil; and absorbs more acid and water than any other product tested. **Circle 17 on the reader service card.**

## Permatron

The **PreVent air-intake filter** from Permatron stops debris from entering any type of equipment and clog-



ging up the system. The washable, ultraviolet-protected filter reduces equipment maintenance, downtime, and frequent and labor-intensive chemical cleanings, and it requires no system modifications or electrical hookups. Custom made to the air-intake perimeter, a variety of design features allow for easy and secure filter attachment. **Circle 18 on the reader service card.**

## Ritchie Engineering/ Yellow Jacket

The Yellow Jacket Products Division of Ritchie Engineering Co. has released its 100-page, four-color *Edition 57 HVAC&R and Automotive Service Tools Catalog*. The catalog features all Yellow Jacket HVACR service tools, including the new ACCUPROBE II heated sensor leak detector. Categories include refrigerant recovery, vacuum pumps, hoses, gauges and much more. **Circle 19 on the reader service card.**



## Sporlan/Parker Hannifin Corp.

The *SERI extension valve*, added to the SERI line of valves, has 20-, 40- and 75-ton capacities. The SERI valves bring electronic-expansion-valve control to a new compact and cost-effective package. All models feature a robust removable-cable design and integral sight-glass. All three valves also are designed for servicing without removing the valve body from the piping. **Circle 20 on the reader service card.**



## Test Products International Inc.

The new TPI *model 1020 particle counter* is a revolutionary handheld device essential for the IAQ technician. This single-channel counter is capable



of measuring five different size ranges—which are 0.3, 0.5, 1.0, 2.0 and 5.0 microns—and is ideal for technicians selling filters, air cleaners and other types of IAQ services. **Circle 21 on the reader service card.**

## Testo Inc.

Testo Inc. conducted its *Green Spring Promotion* through Aug. 31, 2009, which featured its line of refrigeration system analyzers. The promotion focused on reducing energy consumption and saving customer's money with Testo RSAs. These powerful contractor kits feature 523, 556 and 560 RSAs with unique features and benefits. **Circle 22 on the reader service card.**



## The Energy Conservatory

Per its *Company Profile*, The Energy Conservatory, which is located in Minneapolis, MN, has been providing diagnostic tools to measure building performance for more than 20 years. The company's close connection with the building-science community, as well as builders, contractors, community-based organizations and government agencies, has contributed to the range and quality of products it designs, engineers and manufactures. **Circle 23 on the reader service card.**



## TSI/Alnor Inc.

The new *ABT701 Analog Balometer* expands the long Alnor tradition of accurate, dependable, and rugged instrumentation to the ventilation testing and balancing community. Fast meter response, simple operation, and easy-to-read indicators help to make the ABT701 Balometer an ideal choice for facility engineers and HVAC professionals. **Circle 24 on the reader service card.**



## UEi

UEi's *Smart Bell combustion* meter lets technicians tune equipment by measuring the CO<sub>2</sub> and flue temperature, and then displays calculated values for excess air, combustion efficiency, oxygen and net temperature. Watch display values change in real time while making adjustments. The new EOS Technology avoids the annual cost of electro-chemical sensor replacements with a 10-year sensor life expectancy. **Circle 25 on the reader service card.**



Check out the 2009 Readers' Choice Awards being presented at [www.rses.org/photogallery/RCAwards.aspx](http://www.rses.org/photogallery/RCAwards.aspx).