

## Christy Domanoski

**From:** Christy Domanoski  
**Sent:** Wednesday, January 31, 2007 11:49 AM  
**To:** Kerri Grote  
**Cc:** Karl Robe  
**Subject:** FW: C-B is in Process Heating's enewsletter - lead story

# Process Heating

FOR MANUFACTURING ENGINEERS WHO USE HEAT PROCESSING EQUIPMENT AND SUPPLIES.

IN BRIEF

[www.process-heating.com](http://www.process-heating.com)

WEEKLY EDITOR

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Dryer Troubleshooting Tips • Fan Maintenance Plan • Flowmeter, Tip Monitor for Welding • Sensorless Controller • Cleaver Brooks Reorganizes • and more

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### INDUSTRY NEWS

## Cleaver-Brooks Reorganizes Its Companies

Milwaukee-based [Cleaver-Brooks Inc.](#) has reorganized its divisions as product groups under the parent company name Cleaver-Brooks Inc.: [C-B Package Boiler](#), [C-B Nebraska Boiler](#), [C-B Energy Recovery](#), [C-B Natcom](#), [C-B Pro-Fire](#) and [C-B Aftermarket](#).



The company expects the restructuring to allow Cleaver-Brooks Inc. to better serve its core business of manufacturing steam and hot water boilers, gas and oil burners, advanced system controls and heat recovery systems. It follows other moves to refocus on core markets such as the decision to sell its water technologies division, Aqua-Chem, early last year.

Engineer John Cleaver and East Coast businessman Raymond Brooks

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introduced the packaged boiler concept in 1931. In its 75th year, Cleaver-Brooks is positioned for the challenges facing an industry dependent on new technologies to improve energy efficiency and reduce emissions.

### NEWS BRIEF

Masking systems maker [Mocap Inc.](http://www.mocap.com), St. Louis, has redesigned [www.mocap.com](http://www.mocap.com) as both a computer- and mobile-device-friendly web site. Optimized for viewing on both laptop/desktop systems as well as web-enabled phones and PDAs, the site has a rich visual interface yet low graphic content and small file sizes to provide quick downloads and clear text on handheld systems.



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IN CASE YOU MISSED IT

### Fan Plan

Most fan maintenance activities center on cleaning housings and fan blades, lubricating and checking seals, adjusting belts, checking bearings and structural members, and tracking vibration.



### Heat Exchanger Basics

Choosing the right heat exchanger requires some knowledge of the different heat exchanger types, as well as the environment in which the unit must operate.

### Sensing Fluid Temperatures with Flexible RTDs

Accurate temperature sensing of liquids flowing in pipes is essential to process control and energy-management systems. The traditional approach is to use probe-style sensors and thermowells inserted into the fluid stream. What are the advantages of flexible RTDs?

### Spare Parts

The time to develop a replacement part strategy is before the emergency. Take a methodical approach to developing an inventory plan and you can avoid unplanned downtime and lost production.

**10 Tips on Troubleshooting Dryers** *Site Registration Required to View*  
 Troubleshooting a dryer that has never operated to specification from startup is essentially more challenging than troubleshooting a dryer that is no longer operating to specification.

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#### PRODUCTS



#### **Rota-Scrape Cooker for Fish**

Model Huko is a vertical scraped-surface cooker that provides a self-cleaning effect during operation. The continuously operating, indirectly heated cooker consists of a stator and a rotor. The stator is constructed as a series of concentrically arranged heating surfaces that form cylindrical cooking chambers. The rotor consists of a number of product carriers with fixed scrapers. During operation, product enters the cooker at the top and flows down into the cooking chambers. The rotating product carriers continuously transport the product through the cylindrical cooking



#### **Flowmeters, Tip Monitors for Welding**

DeltaPoint monitors sense tip loss in resistance welding cells by comparing total inflow and outflow of cooling water to the cell. DeviceNet interface is a standard feature of the units, which monitor flow and temperature, provide flow comparisons and detect leaks in multiple weld devices. The monitors can provide sensitive tip-loss detection in welding guns, robotic work cells or non-robotic hard tooling; one unit can monitor up to 13 welding tips. The monitors are equipped with vortex shedding flowmeters that require minimal maintenance, are not affected by dirt in water, and have no moving parts to clog, wear or repair. The flowmeters are

chambers while simultaneously scraping the heating surfaces free from fouling. The cooked fish exits the cooker through the outlet chute in the stator base plate.

**Atlas-Stord**  
**(336) 668-7727**



### **Electric Ovens and Air-Heating Systems**

Electric ovens are designed to fit a wide range of applications and specifications. Most ovens are large enough for walk-in or pallet loaded material. Ovens are supplied with bump rails for wall protection and can be designed with fume- and moisture-exhaust systems. Rotary systems are available to hold quantities of rods on an automatic indexing control. The systems can be microprocessor controlled with time/temperature programming capabilities.

**Gaumer Process Heaters, Systems, Controls**  
**(800) 460-5200**

bench-calibrated to minimize possibility of nuisance tripping.

**Rocon LLC**  
**(800) 870-5403**



### **Sensorless DC Controller**

Heaterstat CT198 is designed to be used instead of a heater/sensor combo. The sensorless controller uses a high TCR (Temperature Coefficient of Resistance) heater to sense and control the heat output, so a separate sensor or thermostat is not required. An adjustable setpoint allows fine tuning of the control temperature to the application. Typical applications include regulating the temperature of miniature low-mass heaters in situations where a temperature sensor is impractical or will impede response; maintaining temperature of critical circuit board components such as crystals; and independently controlling individual sections of large area heaters.

**Minco Products Inc.**  
**(763)-571-3121**

### **Walk-In Batch Oven**

No. 990 is an electrically heated, 500°F (260°C) walk-in batch oven used for curing



### **Automatic Drain Valve**

Series DV is designed to eliminate the need to manually drain water and harmful sediments from compressed air systems. It can be used on dryers, receivers, tanks and drop legs for sampling and purging liquids. The timed automatic drain valve has a heavy-duty motor and adjustable timer. Constructed in brass for corrosion resistance, the full-port ball valve provides maximum unobstructed flow without clogging. A test button allows the unit to be cycled at any time.

**Dwyer Instruments Inc.**  
**(800) 872-9141**

composite materials in vacuum bags. Workspace dimensions of this oven measure 60 x 60 x 72". 40 kW are installed in Incoloy-sheathed tubular elements to heat the unit. A 3,300 cfm, 2-hp recirculating blower provides combination horizontal/vertical airflow to the workload. Standard controls and safety equipment include a digital programming temperature controller, manual reset excess temperature controller with separate contactors, recirculating blower airflow safety switch and SCR power controller.

**Grieve Corp.**  
**(847) 546-8225**

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