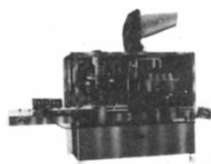


PROCESS AND PLANT EQUIPMENT

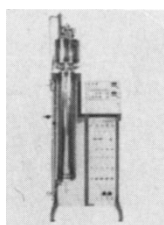


Monoblock filler/capper. MRM/Elgin Corp. (Menomonie, WI) combined a 9-head rotary piston filler and versa cap to create RPF-8-MC, a space-saving combination filler/capper on a single compact frame. It fills and caps up to 150 containers per minute with a maximum fill volume of 35 fluid ounces and accuracy to .001 percent. Caps may be plastic or metal, continuous thread or snap-on.

Write in 801 on Reader Service Card

Air flow walk-in oven. Grieve Corp. (Round Lake, IL) No. 627 is an electrically heated combination air flow walk-in oven with workspace dimensions of 62" wide × 72" long × 72" high. Heat input capacity of 40KW allows operation to 500°F with a 24-hour recorder for continuous unattended monitoring. For use in different operations, including curing.

Write in 802 on Reader Service Card



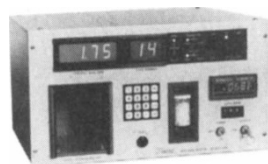
Airlift fermentors. LH Fermentation (Slough, U.K.) 400 Series achieves good mixing with minimal cell lysis, ideal for large-scale cultivation of shear-sensitive cells. Providing efficient flow circulation at low rates, the *in situ* sterilizable 30- or 80-liter glass vessels also enable gas to leave the medium, minimizing cell damage and concomitant foam.

Write in 803 on Reader Service Card



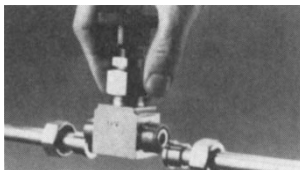
Printer. The Accuprint multi-line printer from Dennison Industrial Systems (Cedar Grove, NJ) has a 32-printhead option and a modular design allowing configuration for present and future growth needs. The controller features a simple keyboard and two-line LCD display.

Write in 804 on Reader Service Card



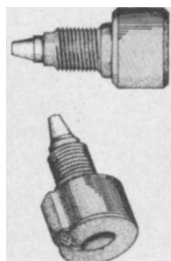
Moisture tester. Forte Technology's (Norwood, MA) 4586 direct reading tester instantly and non-destructively measures moisture content of granular, powder, pellet, or liquid samples, with temperature compensated for automatically by microprocessor.

Write in 805 on Reader Service Card



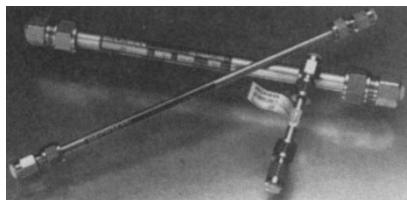
Valves. Soft-seated shutoff and regulating valves with flat-face, O-ring union ends for easy slip-in installation are new from Combination Pump Valve (Glenside, PA). All wetted surfaces of CPV Mark VIII valves are made of 316 stainless steel, suiting them for process and instrumentation applications.

Write in 806 on Reader Service Card



Fittings. Finger-tight II fittings from Upchurch Scientific (Oak Harbor, WA) hold to 6,000 psi in any 1/16" internal female fitting. The plastic, two-part universal fittings have tough inert acetal plastic threads, and are reusable in different systems due to CTFE gripping ferrules imbedded into the 10-32 or 1/4-28 threaded nuts.

Write in 807 on Reader Service Card

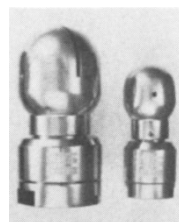


HPLC columns. Beckman Instruments (Fullerton, CA) adds two Ultrapore™-C8 HPLC column sizes to the existing fast-analysis 75 mm-column length. A 4.6 × 250 mm size provides extra resolving power necessary for difficult-to-separate samples, and one of 10 × 250 mm increases loading capacity for high mass and/or high volume samples.

Write in 808 on Reader Service Card

Size reduction systems. FitzMill® particle-size reduction systems from Fitzpatrick (Elmhurst, IL) process a range of wet or dry materials with any custom-made or standard machine configurations, based on nine standard capacity sizes. Converting bulk solid materials and compacted powders into control-sized particles with throughputs to 20 tons/hr, the Fitz mill has changeable components, rendering it application-tailorable.

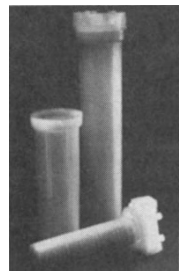
Write in 809 on Reader Service Card



Tank cleaners. Toftejorg (St. Paul, MN) introduces Midget and Magnum, tank cleaning machines providing aggressive cleaning in drums, barrels, vessels, and small

tanks. Using a minimum of solution, they offer maximum capabilities at low pressures. Compatibility with acids, caustics, and solvents is ensured due to 316 stainless steel construction.

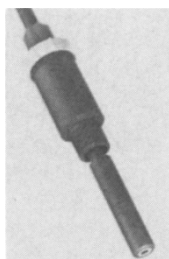
Write in 810 on Reader Service Card



Cartridge housings. Designed to meet ultrapure filtration application requirements, Gelman Sciences' (Ann Arbor, MI) pure polypropylene housings withstand

pressures to 100 psi, with O-ring-sealed gauge and drain ports. Smooth interiors minimize particulate and bacterial adhesion. Available in 10/12- and 20-inch lengths, the low-extractable housings accept -222 double-O-ring piston seal cartridges.

Write in 811 on Reader Service Card



Insertable pH electrodes. Direct measurements in pressurized systems are possible without shut-down during electrode servicing with insertable pH electrodes from

Sensorex (Stanton, CA). Installed via a ball valve-packing gland device, they are self cleaning in applications where conventional electrodes become fouled. Rated to 100 psig and 100°C, they are abrasion-free in slurries, flue gas scrubbers, and similar uses due to flat surface design.

Write in 812 on Reader Service Card