



this month's topic **Heat Transfer**

Disposable Heat Exchanger Provides Sterile Heat Transfer



The DHX disposable heat exchanger has single-use bags fitted between stainless steel plates. The bags provide a sterile, isolated flow path for process fluid while the plates have separate flow paths for the heating/cooling fluid. The process fluid follows a flow path that is counter-current to the heating/cooling fluid. Single-use bags eliminate the risk of cross contamination and reduce turnaround time between batches. The plate-and-frame heat exchanger has a modular design that easily integrates into existing equipment configurations. The DHX follows current good manufacturing practices (cGMPs) and is suitable for commercial and clinical biotherapeutics, vaccines, and other biologic processes.

ASI

www.advancedscientifics.com

Heating Blankets Cure Concrete In Cold Weather Conditions

The Multi-Duty and Extra-Hot flat heating blankets are designed for cold weather conditions. The Multi-Duty blanket is suitable for curing concrete in low-temperature environments, and the Extra-Hot blanket is designed for any heating or thawing application. Both blankets are available in sizes from 2 ft by 2 ft to 11 ft by 23 ft, with

other sizes in between. The blankets are available in 12-V and 110-V options, with certain models allowing for both capabilities on the same unit.

Powerblanket

www.powerblanket.com

Drum and Tote Oven Quickly Melts Materials



The Sahara Hot Room Model S24 can heat up to 24 drums on pallets or six totes. The heating medium is typically saturated steam at pressures up to 200 psig, but hot oil or hot water can also be used. The S24 can quickly and safely heat hard-to-melt materials. It is fully insulated and features rugged steel construction and built-in spill containment. It can be easily relocated with a forklift and is shipped completely assembled and tested for rapid installation. Options include air circulation and exhaust capabilities, digital temperature control with over-temperature protection, and an outdoor-use package. The heating capability of each Hot Room is designed based on customer needs.

Benko Products, Inc.

www.benkoproducts.com

Silicone Rubber Heater Provides Improved Thermal Efficiency

The Sentinel molded foam silicone rubber heater offers improved thermal efficiency, higher process tem-

peratures, and reduced system costs in semiconductor equipment manufacturing applications. It is available in standard diameters of 1.5, 2.0, and 4.0 in., and in configurations including straight sections, elbows, tees, reducers, and flanges. In addition, the heaters can be custom designed to fit valves, regulators, and other gas-delivery and pump line applications. Sentinel heaters are also available with structured silicone rubber heaters and extruded silicone insulation technology. Structured heater technology is suitable for small, 1/4-in.- to 3/4-in.-dia. gas-delivery applications and other low-volume applications.

Durex Industries

www.durexindustries.com

Precooling System Improves Turbine Efficiency



Gas turbines lose efficiency as the ambient temperature rises. The CleanChill turbine precooling system provides chilled inlet air to a gas turbine, which allows the turbine to operate at greater output and efficiency in higher ambient temperatures. The CleanChill combines available onsite chilled water with an air-handling filterhouse for turbine precooling. The filterhouse features multi-staged filtration and moisture separation to produce chilled air at the ideal conditions.

Everest Sciences

www.everestsciences.com