

INTERPHEX 2013™

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Feeder Dispenses Powders at Low Feed Rates

The PureFeed DP-4 is an innovative gravimetric feeder that can accurately meter dry pharmaceutical, nutraceutical, and cosmetic powders at feed rates as low as 20 g/h. The feeder has a speed-controlled, inert ceramic feed disc positioned at the base of a material storage chamber. The disc rotates to precisely discharge tiny amounts of material over a range of 20–2,000 g/h. Because the feed disc separates the material supply from the discharge point, there is no compaction and no chance of flooding. The DP-4 is suitable for applications such as jet milling, continuous blending, medical-grade plastics compounding, packaging, coating, and ingredient weighing.



Schenk AccuRate
www.accuratefeeders.com
Booth 2279

Ultrasonic Technology Revolutionizes Fluid-Bed Coating Systems

This fluidized-bed coating system uses ultrasonic vibration within its spray nozzle for gentle coating. Instead of atomizing air pressure, the nozzle uses a tiny ultrasonic horn, which vibrates at a fixed frequency to break up the droplets. The nozzle achieves uniform, thin-film particle coatings with droplet sizes in the 10–30 µm range. The nozzle is especially well suited for suspensions containing fine suspended particulates. The coating system has a controller for fine-tuning the spray pattern and shape.

Fluid Air, Inc.
www.FluidAirInc.com
Booth 1542

Blower Package Delivers High Flowrates



The IQ high-speed blower package includes a variable-frequency drive, permanent magnet motor, and a proprietary impeller design, all within a sound-dampening enclosure. The package's programmable logic controller (PLC) can be seamlessly integrated with existing plant operating systems. At its maximum operating speed, the blower delivers up to 10,000 ft³/min and up to 20 psi.

Gardner Denver
www.GardnerDenverProducts.com
Booth 3763

Reaction Cooling Systems Target Customers' Cooling Requirements

The PolarFit reaction cooling systems use liquid nitrogen to provide pharmaceutical, biotech, and specialty chemical companies with flexibility in cooling temperature ranges. The company's line of PolarFit systems includes direct, semi-indirect, and indirect cooling systems that can be supplied with different cooling capacities. Control systems for the PolarFit line provide precise temperature control without causing freezing or other process disruptions. The company uses propriety computational modeling to predict the cooling profile of a customer's reaction and identify the most-efficient process cooling solution to fit the application's requirements.

Air Products
www.airproducts.com
Booth 2478

Heated Hose Ensures Constant Fluid Temperatures



The Vena heated hoses are suitable for the transfer of liquids in the food, cosmetic, pharmaceutical, and biotech industries. The hoses keep the product at a constant temperature, which is controlled by an electronic regulator connected to the hose. They have polyester fabric plies, stainless steel wire, and an electrical coil encased in the hose wall. Each hose is equipped with Type 316L stainless steel fittings, is in compliance with FDA 21 CFR 177.2600 and BfR XV standards, and has a temperature range of –76°F to 356°F. Each model is custom-made according to customer requirements and operating conditions.

Venair
www.venair.com
Booth 2678

Code Ensures Pharmaceutical Authenticity



The HD packaging authentication security scan (PASS) code can encrypt up to 703 kilobytes of data, as opposed to traditional 2D barcodes that are limited to approximately 4 kb of data. Comprehensive product information, such as product specifications, full-color images, e-pedigree data, and

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covert anti-counterfeiting codes, can be included in the HD PASS code. All data are embedded within the HD code, which eliminates the need for massive databases or Internet access to retrieve information. Pharmaceutical companies can encode specific variables, such as a six-digit identifier, and then match the identifier to the GS1 code data for complete product authentication. A mobile phone application is provided, which enables the recipient to read and compare the HD PASS code to the GS1 code.

Complete Inspection Systems, Inc.
www.completeinspectionssystems.com
 Booth 2132

Abrasive Cloths Clean Up in Cleanrooms



Corroded equipment is difficult to clean and disinfect because the rough surfaces can harbor bacteria. This can result in sterility failures and lot rejections in sterile process manufacturing. The Abratec abrasive cloths have various levels of abrasive grits backed with Quiltex fabric. Abratec cloths can remove rust and sanding debris without contributing additional particles to the remediation process. The cloths work with solvents, including the IPA/water blends typically found in sterile processing environments. One variety of Abratec cloths is irradiated with a dose of 25–50 kiloGray, which helps maintain the integrity of sterile environments.

Contec, Inc.
www.contecinc.com
 Booth 1338

Tank Cleaning Machine Promotes Worker Safety

The Aseptic VI tank cleaning machine is specifically designed for sanitary use. It eliminates the need for confined-space entry for manual cleaning and reduces water and chemical usage by up to 80%. Fast and effective cleaning reduces tank downtime, which allows for increased productivity. The machine can fit through a 3-in. sanitary fitting, and may be permanently installed within a tank. It is constructed of FDA-compliant materials, and features self-cleaning and self-draining capabilities.



Gamajet
www.gamajet.com
 Booth 2053

Analysis System Employs High-Resolution Diode Array Technology

The ProFoss system provides non-destructive analysis of pharmaceutical and chemical products directly in the process line without the need for a bypass. It helps to optimize the use of raw materials and run the process closer to target specifications. The system is based on high-resolution diode array technology for accurate and continuous analysis in reflectance or transmittance mode. Precise instrument matching enhances method development, minimizes implementation costs, and ensures calibration model transferability between analyzers. The system offers instant measurement of the complete wavelength range for samples with high flowrates.

FOSS NIRSystems, Inc.
www.foss-nirsystems.com
 Booth 2072

Rupture Discs Are Stress-Zone Free



Rupture discs in the Atlas line employ the company's patented G2 technology. This technology ensures that the rupture discs are free of stress zones, which allows the discs to handle a large pressure range. The rupture discs offer backpressure resistance, are compatible with liquid or vapor service, and can handle repeated cycling. The Atlas line of rupture discs is manufactured without the use of hard score tooling.

Fike
www.fike.com
 Booth 2236

Punching and Sealing Machine Performs Feasibility Studies

The RD 06 punching and sealing machine is designed to perform lab-based feasibility studies and test production runs with process parameters that are identical to those of industrial sealing machines. The machine gives reproducible results that can be transferred from the lab to an industrial setting. An adjustable touch panel allows the operator to modify and monitor the process parameters as required.



Rychiger
www.rychiger.com
 Booth 3610