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March 18–20, 2014 • Javits Center • New York, NY • www.interphex.com

Mixing Machine Features Autonomous Temperature, Pressure, and Vacuum Control



With its three mixing movements, the Trilab mixing machine for pilot plants and laboratories is suitable for viscous mixing, as well as liquid vacuum induction. It employs pressure-assisted emptying, and its agitator does not require tools for change-out. The machine is offered in mixing capacities of 5, 10, 30, or 50 L, and is capable of scaling up laboratory results to pilot plant and industrial sizes. Trilab is designed for pharmaceutical, cosmetics, chemical, and food industry applications.

VMI

www.vmi-mixer.com

Booth 2334

Injection Vial Eliminates Intermediate Components



The needleless injection vial (NIV) is a closure for glass vials containing injectable medications that require reconstitution, mixing, or transfer

before administration to a patient. The company has developed a needle-free system that can connect a vial and syringe without any intermediate components. The vial has an easy-to-use safety closure and a hermetic seal. If the seal is perforated by a needle-free syringe, it automatically recloses after the syringe is removed. The NIV can replace standard vials used with a conventional syringe, as well as needle-free vial connectors that require another component to enable drug reconstitution.

Haemopharm

www.haemopharm.it

Booth 1537

Dry-Vapor Infection Control Sterilizes Equipment without Surface Wetting



This vapor-phase fumigation system eradicates microorganisms — such as viruses, germs, spores, and bacteria — to help control healthcare-associated infections. The BioGen DVHP (dry vaporized hydrogen peroxide) system decontaminates equipment and facilities using a dry vapor. Because there is no surface wetting, all equipment, including electrical items, can be decontaminated. The system provides up to a 6 log₁₀ kill against pathogens, including two that are very difficult to eradicate — methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile*. Real-time

process control eliminates the need to dehumidify the area, which allows the facility to resume operation as quickly as possible. The company's service department monitors the process in real time, and further validates decontamination with *Geobacillus stearothermophilus* biological indicators.

Howorth Air Technology Ltd.

www.howorthgroup.com

Booth 2763

Thermoplastic Elastomer Assemblies Ensure Sterile Fluid Transfer



AdvantaFlex biopharmaceutical thermoplastic elastomer (TPE) is used to construct single-use container closures and other assemblies. It is heat-sealable and weldable, and is available as bulk tubing, or molded into connections such as tees, wyes, crosses, reducers, and Tri-Clamps. Secure closures — such as stoppers, caps, True Union clamps, and GL45 inserts — for glass, metal, or plastic containers can be molded from AdvantaFlex. Molded single-use assemblies help eliminate barbed connections and the potential for leaks, and reduce the need to splice silicone tubing sections into a process line. The assemblies are free of silicone oils and animal-derived ingredients, and contain low levels of extractables.

AdvantaPure

www.advantapure.com

Booth 3055

System Performs Both Online and Offline Inspections



The Optical Bench is a semi-automatic inspection system that is useful in offline verification and kit-test creation. It is equipped with a high-resolution camera and an LED lighting system for examination of injectable

pharmaceutical products. The machine is driven by a brushless motor, and is suitable for both manual and automatic inspection.

Brevetti CEA

www.brevetti-cea.com

Booth 2824

Programmable Driver Provides Precision Pump Control

This intelligent programmable pump combines the valveless STH stepper pump with an integral programmable driver in a compact design. The driver provides precision servo control of the pump's motor for resonance-free, quiet operation. The pump has five programmable inputs and two outputs, and is compatible with multiple programming platforms such as Visual Basic,



C/C++, and Delphi, among others. It has a 0–5-V analog output, and supports CANopen protocol; an optional EtherCAT communication module is also available. Flowrates of 25 $\mu\text{L}/\text{min}$ minimum to 240 mL/min maximum are supported.

Fluid Metering, Inc.

www.fluidmetering.com

Booth 1459

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