



FLUIDS AND SOLIDS HANDLING

System Disinfects Wastewater with UV Lamps



The MicroDynamics OCS721 is a microwave-powered, open-channel, ultraviolet system for municipal wastewater disinfection. It is validated by the National Water Research Institute for water reuse. Modules can be placed side by side in channels for design flexibility. The OCS721 meets dose, log reduction, and water-quality requirements for a variety of applications. It uses microwaves to energize low-pressure, high-output, electrodeless lamps to generate a UVC output of 254 nm — an optimal wavelength for bacterial disinfection. The lamps include a 3-year warranty. The system features MicroPace, a flow-pacing technology that can match UV dose to flowrate.

Severn Trent Services

www.severntrentservices.com

Diaphragm Valve Minimizes Maintenance Requirements

The Model DV22 Microvolume diaphragm valve is held together by a single screw, which significantly reduces maintenance time. Three configurations are available: a 4-port internal loop sample injector; a 6-port external loop sampling/switching valve; and a 10-port multifunctional diaphragm valve. The DV22 valve's lifetime can exceed 1 million cycles at ambient temperature and 300 psi or 500,000 cycles at 175°C and 300 psi. Actuator air at 40–50 psi is supplied to a side port with 10–32 female threads,

which permits use of a variety of compression or barbed fittings. The valve is suitable for process industry applications, automated lab analyzers, and continuous-monitoring environmental analyses.

Valco Instruments Co., Inc.

www.vici.com

LABORATORY EQUIPMENT

Laboratory Mixer Accommodates Various Batch Sizes



The HSM-100LCI-T laboratory mixer is offered with interchangeable mixing attachments, including batch and inline rotor/stator sets, and disperser blades and propellers of various sizes. With a 16-in. clearance under the mixing attachment and 12-in. distance between the feet (base), it can be fitted with vessels of different sizes. The mixer has variable speed control from 500 to 10,000 rpm, and color touchscreen controls for speed, percent of load, batch timer, and temperature. It has an electronic push-button lift and Type 316 stainless steel wetted parts polished to 150-grit finish.

Charles Ross & Son Co.

www.mixers.com

INSTRUMENTATION

Flowmeter Provides Direct Mass Flow Measurements

The ST75 air/gas flowmeter delivers precision mass flow measurements with media temperature compensation. It provides direct flow measurement, which eliminates the need for temperature sensors, flow computers, and other devices that are required for orifice

plates, venturis, vortex-shedding, and other meters. It is designed for 0.25-in. to 2.0-in. line sizes, making it well suited for compressor line measurement. The flowmeter provides three outputs: mass flowrate, totaled flow, and media temperature. It has accuracies of $\pm 1\%$ of reading and $\pm 0.5\%$ repeatability, and operates over a wide flow range, from 0.01 to 559 scfm (depending on line size). For variable process conditions, the ST75 is factory preset with a wide turndown range of 10:1 to 100:1. It provides scaleable 4–20-mA and 0–10-V outputs. To accommodate hazardous area installations, the ST75 is enclosed in a rugged NEMA Type 4X rated package.

Fluid Components International

www.fluidcomponents.com

ENVIRONMENTAL, HEALTH, AND SAFETY

New Options Are Available in Bifocal Safety Eyewear

Workers in potentially hazardous environments cannot switch between regular safety glasses and reading glasses without creating a moment of noncompliance that may result in eye injuries. The StarLite MAG bifocal safety eyewear remedies this issue. StarLite MAG is now available in a 10-unit multipack to provide greater flexibility in eye protection. Each multipack contains two of each diopter: 1.0, 1.5, 2.0, 2.5, and 3.0, in the clear lens variety only. In addition, StarLite MAG is also available in a new clear in/out mirror lens option. This lens can reduce the effects of intense bright light and glare as workers transition from indoor to outdoor tasks. It is available in 1.5, 2.0, and 2.5 diopter levels. In addition to the clear in/out mirror lens, the eyewear is offered in clear, clear anti-fog, and gray lens varieties.

Gateway Safety

www.GatewaySafety.com