

Next technology evolution for circulators

Manufacturer and designer of fluid-flow equipment, Armstrong Fluid Technology, has recently launched the COMPASS R, the next technology evolution for circulators.

The COMPASS R features advanced variable speed Design Envelope technology, new high-efficiency Armstrong iECM motors, and quadratic pressure curves, which will minimize both energy costs and long-term operating costs for homeowners.

Other features of the COMPASS R circulator include: high-efficiency dry rotor design; optimized hydraulics; a replaceable mechanical seal; bolt-for-bolt connection compatibility with a range of installed 3-piece circulators; an onboard control panel for the appropriate operations mode and flow; release latch for easy adjustment of the display orientation

and repairability; and easy-to-access front-facing terminal block; a large wiring chamber and it complies with EEI<0.22

The COMPASS R offers multiple control options and an auto mode that adjusts the speed to match flow requirements. The new Armstrong circulator is available in .25 hp to 1.5 hp models with a maximum flow rate of 225 GPM and maximum head of 65 ft.

www.armstrongfluidtechnology.com



Armstrong's new COMPASS R circulator.

Single axle compressor controls pressure

Atlas Copco has launched a new single axle portable compressor that enables users to match air flow and pressure to their specific application needs.

With the PACE (Pressure Adjusted through Cognitive Electronics) system, operating pressures can be adjusted by increments of 0.1 bar via an intuitive XC2003 controller. The controller facilitates diagnostics, tracks the compressor's utilisation and indicates planned service interventions.

The XATS 138 features a strong canopy and undercarriage to enable safe transportation. The bodywork is protected by a three-layer corrosion resistance system,

including a Zincor, primer and a powder coating. It conforms to corrosion protection category C3, helping to keep the canopy corrosion free for up to 10 years. A spillage-free frame, which is fitted as a standard component, is guaranteed to contain all fluids.

www.atlascopcogroup.com.



The XATS 138 compressor provides a combination of efficiency and flexibility.

Operational advantages for chromatography

Quattroflow, part of PSG, a Dover company has announced that its quaternary (four-piston) diaphragm pumps can provide design and operational advantages ideal for chromatography applications.



Quattroflow's quaternary diaphragm pumps offer design and operational advantages for chromatography.

Chromatography is the method of choice for processing cell-free and protein-containing supernatants in order to isolate the "target protein" in its highest possible form. It involves passing liquid through a container (axial or radial columns) filled with a matrix that ensures the different contents are properly separated. Therefore, chromatography system builders need pumping technology that has a smooth, reliable and flexible operation.

Quattroflow's positive displacement quaternary pumps have the design and performance characteristics required for chromatog-

raphy systems. The pumps don't have any moving parts to provide non-slip operation, which is optimal for transferring shear-sensitive products without damage while virtually eliminating particle generation and heat degradation. In addition, Quattroflow pumps are self-priming and provide safe dry-run operation and allow for clean-in-place (CIP), sterilize-in-place (SIP) and autoclave capabilities.

www.quattroflow.com

Flow meter for high viscosity fluids

Distributor of flow meters, instrumentation and fluid transfer equipment, Bell Flow Systems, has announced the launch of the new RCT1000 Badger Meter Coriolis flow meter.



The new RCT1000 Badger Meter Coriolis flow meter.

RCT1000 meters are especially suited to the precise measurement of high viscosity fluids, aggressive media and contaminated fluids as well as high density gases, whilst maintaining a wide turndown ratio. Typical applications for these mass flow meters include filling or dosing oils, solvents and chemicals and measuring adhesives or binding materials, coatings and hardeners and other additives.

Coriolis flow meters provide simultaneous measurement of mass flow, density, temperature and volume flow. A feature of this

design is the lack of internal moving parts, enabling the flow meter to experience little or no mechanical wear.

The RCT1000 can control equipment, such as valves and pumps with PID and batch control signals. The transmitter features a user-lock feature to prevent accidental activation.

www.bellflowsystems.co.uk