SKALAR

On-line Sample Homogenizer



Stator / Rotor Assembly



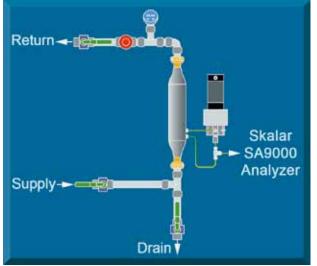
Environmental regulations have caused some analytical parameters in waters, such as TOC, total phosphate and total nitrogen, to be elevated in importance. For accurate on-line analysis of these parameters it is important to introduce a representative sample to the analyzer.

Traditional stirring and mixing methods are not always successful when used for blending tasks and with filtering out larger suspended solids the sample becomes less representative. Skalar has therefore designed an on-line sample homogenizer. This new pre-treatment system provides an ideal alternative to filtration.

The heart of the homogenizer is a rotor, which turns at high speed, mounted in a stator. The blades of the rotor and the stator "grind" the suspended solids in the sample to a size smaller than 20 microns. The high speed of the rotor, more than 15,000 rpm, generates ultrasonic energy, which guarantees the homogeneity of the sample. The sample, collected in the stainless steel overflow vessel, passes through the homogenizer to the monitor via the sample valve and returns to the overflow vessel at an approximate sample-loop speed of 4000 litres/hour.

FEATURES:

- * Unique slanted rotor slots for fast processing
- * Improved mixing turbulence
- * Interchangeable dispersing tools some with ceramic seals
- * Exchangeable rotors and stators
- * Optional continuous flow chambers
- Choice of 9 powerful drive units some with intergral LCD speed displays
- * Compressed air motors for hazardous areas



Closed loop homogenizer system

Especially for industrial sample streams a completely closed loop sampling system is required. These samples maybe contain hazardous and/or toxic components. Also the sampleloop pressure can be high. The compact closed loop systems protects the operator against the dangerous components in the sample and makes pressure-regulation possible.

Specifications

Motor Power Capacity Sample flow-rate Dimension plate

- Electronic controlled high speed motor 5.000-22.000 rpm
 Max 1500 VA
- 20 microns by 500 I / hour
- Sample flow-rate Minimal 1000 I / hour Dimension plate - 150 x 100 cm.

Closed loop homogenizer system

The lay-out of the system will allow for maximum access for maintenance and easy removal of the individual components.

Other on-line pre-treatments system available from Skalar



For more information on these pre-treatments contact Skalar or see the Skalar On-line filtration systems leaflet Publication No. 0206008B. US

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Skalar reserves the right to change specifications and appearance of the equipment without further notification.