

SonoStep - One Step Sonication of Samples

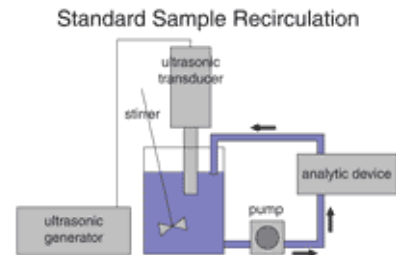
The SonoStep combines ultrasonication, stirring and pumping of samples in a compact design. It is easy to operate and can be used to deliver sonicated samples to analytic devices, e.g. for particle size measurement.

Ultrasonication helps to disperse agglomerated particles for the preparation and analysis of particle dispersions and emulsions. This is important, when measuring particle size, for example by dynamic light scattering or laser light diffraction.

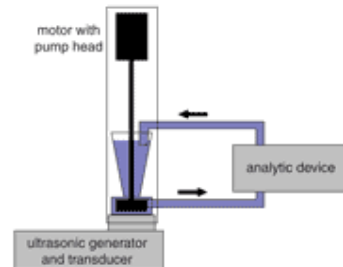
Simple and Effective

The application of ultrasonic power to a recirculated sample requires four components: a stirred vessel, an ultrasonic generator and transducer and a pump. All components are connected by hoses or pipes. The schematic to the right shows a typical standard setup.

To facilitate setup of equipment and handling of samples, the SonoStep integrates ultrasonic power and a centrifugal pump into an agitated stainless steel beaker. The second figure to the right shows a schematic drawing, the foto shows the SonoStep in its real shape. The SonoStep is connected to the analytical device - that's it.



Sample Recirculation Using SonoStep



Consistent Sonication for Better Results

Ultrasonication of your samples improves the accuracy of your particle size or morphology measurement, as the SonoStep performs three important functions:

- De-aeration
- Circulation
- Dispersing / Deagglomeration

The ultrasound de-aerates the liquid and therefore prevents microbubbles from interfering with the measurement. It circulates the sample volume at an adjustable flow rate and disperses the particles in the liquid. The ultrasonic power is applied directly under the rotor of the pump and ensures that agglomerated particles are getting dispersed before being measured. This leads to more consistent and repeatable results.



Reoterm Instrumentos Científicos Ltda.

Rio: Rua Pereira de Almeida, 31 parte. Praça da Bandeira. CEP: 20.260-100. Rio de Janeiro – RJ – Brasil
Tels: 21 25022978 – 25020108 – 22733667. Fax: 21 25040868.

São Paulo: Rodovia Regis Bittencourt, 3.360. Km. 272. CEP: 06793-000. Taboão da Serra – SP – Brasil.
Tels: 11 47862177 – 47716954. Fax: 11 47878319.

E-mail: info@reoterm.com.br Sites: www.reoterm.com.br e www.expolabor.com.br

Reoterm e Precilabo são EMPRESAS DO GRUPO PRECITECH