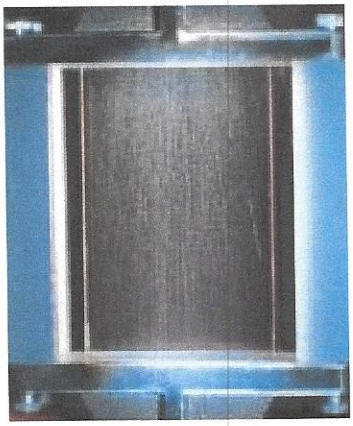
3 A new circulation system makes measurement possible for particles up to 2,000µm

The circulation system in the LA-920 uses a high-output centrifugal pump that can circulate even 2,000µm particles smoothly and consistently for superior repeatability.

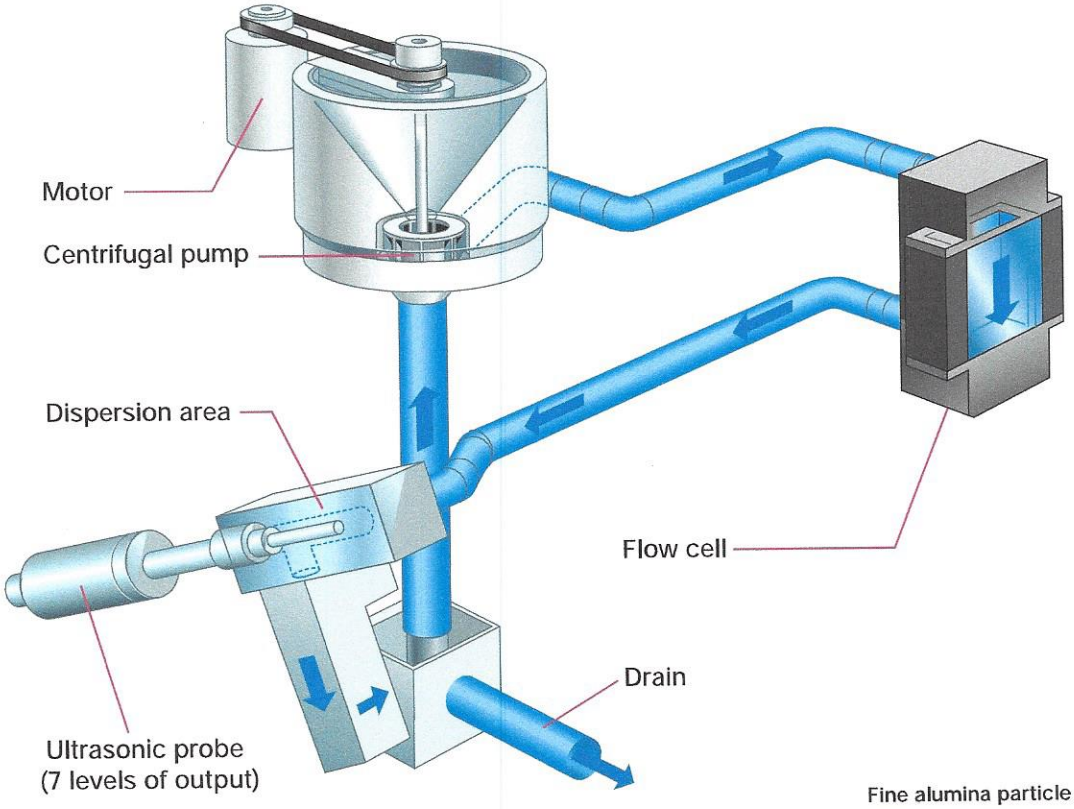
Even 2,000µm particles that used to be measured by manual screening methods can now be measured quickly by the LA-920. Furthermore, all parts of the LA-920 that come into contact with liquid are made of chemical-resistant, rustproof materials such as stainless steel, Teflon resin, and glass, making the LA-920 ideal for use even with liquid organic media*.

*Some organic media are not safe for use with the LA-920



2,000µm particles flowing through the cell

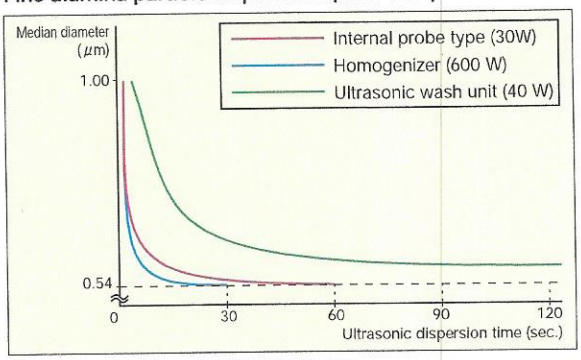
New circulation system diagram



Internal probe for ultrasonic dispersion

The LA-920 includes an ultrasonic probe in its circulation system. Since the probe is internal, measurement can be carried out at the same time as dispersion. This decreases operator labor and reduces the time needed for dispersion, as compared with standard ultrasonic bath chambers, by 80%, improving productivity dramatically.

Fine alumina particle dispersion speed comparison



Test sample: Fine alumina particles

With the method used in ultrasonic wash units, highly cohesive samples cannot be dispersed to secondary particles.