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## ATM SONIC SIFTER

Laboratory Model L3P For Sieving Particles Down To 5 Microns

Ultra-Fine Dry Sieving - The Sonic Sifter is a superior sieving instrument, especially suitable for ultra-fine particle separation by the dry sieve method in the sub-sieve range, i.e., for particles smaller than 37 microns and down to 5 microns. It is portable, designed for fast, accurate particle separation analysis, and gives reproducible results. The Sonic Sifter handles a wide range of dry materials in powdered, granular or pellet form.

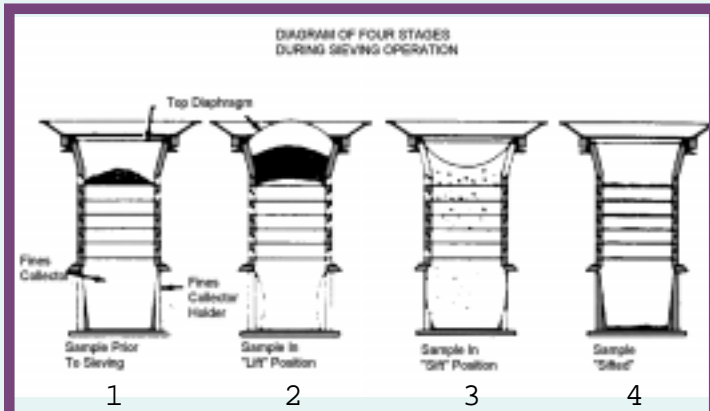
The Sonic Sifter can separate most materials from a Number 20 mesh (850 microns) down to 5 microns. When using the Sonic Sifter for separating particles in the -20 micron range, due to the fragility of sieves, only one screen at a time may be used. It is not possible to 'stack' the sieves when separating in this fine particle size range. And when sieving material larger than 37 microns, the sample size to be sieved should not exceed 20 grams or 7 cc by volume. When sieving material smaller than 37 microns, never exceed 10 grams or 4 cc by volume.

The Sonic Sifter has broad laboratory applications. Rapid separation of particles of varying size and shape is possible in less than 10 seconds. Separation is consistently reliable. The sieving action may be varied for different densities of particles and textures of materials being sifted. Typical applications for this sifter include minerals, chemicals, pharmaceutical analysis, powdered metals, cement and fertilizer analysis.

The sieves are of the "See Through" design, which enable the operator to visually observe the separation, and adjust the Sonic Sifter's power accordingly. The Sonic Sifter is very quiet when operating, generating no more than 70 decibels at a distance of 6 feet.



The above photo is the Laboratory Model Sonic Sifter. Below, is a graphic depiction of the various stages involved in sifting in the Sonic Sifter. Notice that when the jet of air expands the diaphragm and fluidizes the material in 2, while in 3, the diaphragm is contracted, causing the fine particles to fall through the openings in the respective screens.



**Power Required: 120 V/1 Ph/60 Hz  
110 V/1 Ph/50 Hz**

Machine has stainless steel test table and cabinet frame, acrylic sieve frames, acrylic spacers and cone. The fines collector is aluminum. The machine uses 3 inch diameter precision sieves. The dimensions are 10" wide by 12" deep by 23" height. Shipping Weight is 40 lbs.