

## Sonic Sifter

The Sonic Sifter is a precision instrument for the rapid separation of a wide variety of dry particles and powders in the fine micron range.

It will successfully separate samples down to 5 micron in as little as one minute, sometimes less, with consistent repeatability.

### Advantages

- Simple to operate
- Unique action
- Very quick cycle time - typically less than one minute
- Virtually no attrition of sample
- Virtually no screen wear
- Very quiet operation

### Function

The Sonic Sifter sieving action, which can be varied for different densities and textures of material, is unique. A vertical column of air is created to oscillate through a sieve or set of sieves. The motion of the air alternately lifts the sample and then assists it through the sieve apertures. The oscillation amplitude is variable.

A vertical mechanical pulse may also be applied to the sieves at regular intervals to break down any clustered particles and help eliminate any blinding of the apertures.

An important feature of the Sonic Sifter is that it causes very little attrition of the sample and virtually no screen wear.

Specifications	Sonic Sifter
Range	5 $\mu\text{m}$ - 850 $\mu\text{m}$
Sieve Diameter	3"
Sieving motion	sonic energy pulsing
Number of fractions	1 - 6
Process time	0 - 99.9 min
Model	benchtop
Electrical supply	different voltages available
W x H x D	254 mm x 508 mm x 254 mm
Net weight	~ 16.8 kg



### Sieves for the Sonic Sifter

Aperture	Standard Sieves	Special Sieves	Precision Sieves
	Stainless steel woven wire mesh Max six per column	Stainless steel woven wire mesh Double depth Max three per column	Electroformed nickel plate Only one sieve per stack recommended
150 $\mu\text{m}$	●	-	●
125 $\mu\text{m}$	●	-	●
106 $\mu\text{m}$	●	-	●
105 $\mu\text{m}$	-	-	●
100 $\mu\text{m}$	-	-	●
95 $\mu\text{m}$	-	-	●
90 $\mu\text{m}$	●	-	●
85 $\mu\text{m}$	-	-	●
80 $\mu\text{m}$	-	-	●
75 $\mu\text{m}$	●	-	●
70 $\mu\text{m}$	-	-	●
65 $\mu\text{m}$	-	-	●
63 $\mu\text{m}$	●	-	●
60 $\mu\text{m}$	-	-	●
55 $\mu\text{m}$	-	-	●
53 $\mu\text{m}$	●	-	●
50 $\mu\text{m}$	-	-	●
45 $\mu\text{m}$	●	-	●
40 $\mu\text{m}$	-	-	●
38 $\mu\text{m}$	●	-	●
35 $\mu\text{m}$	-	-	●
32 $\mu\text{m}$	●	●	●
30 $\mu\text{m}$	-	-	●
25 $\mu\text{m}$	●	●	●
20 $\mu\text{m}$	●	●	●
15 $\mu\text{m}$	-	-	●
10 $\mu\text{m}$	-	-	●
5 $\mu\text{m}$	-	-	●



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