

# Sonic Sifter Separator

For Laboratory Particle Size Analysis



## A Powerful Tool: The Original Sonic Sifter Separator.

A superior sieving instrument, the Sonic Sifter Separator is precise, versatile and ideal for research and quality assurance applications.

Specially designed 3" diameter acrylic framed sieves and a patented oscillating air column allows this unit to achieve efficiencies previously seen only with wet sieving for materials in powdered, granular or pellet form. The Sonic Sifter is virtually maintenance free and is capable of achieving separations ranging from 3  $\mu\text{m}$  to 5.6 mm. There is no screen wear or particle attrition. Particle separations can be accomplished in less than 10 seconds under favorable conditions – cutting testing times by up to 90% over other methods.

With the Sonic Sifter Separator:

- A vertical, oscillating column of air "tries" the particles 60 times per second, and a vertical mechanical pulse shears agglomerates and reorients the particles in the air column.
- Special see-through acrylic framed sieves help determine proper power level and finish point.
- Action can be varied for different densities and textures as the power level to separate particles is infinitely adjustable.
- Fine particle separation for dry sieving ranges from 3  $\mu\text{m}$  to 5.6 mm.
- Automatic timing ensures repeatable results.
- Easy to operate.
- No need for periodic adjustments or re-calibration.



## Pricing

### Model

L3P (110vac / 60Hz)

L3P-15 (110vac / 50Hz)

L3P-25 (220vac / 50Hz)

L3P-26 (220vac / 60Hz)

Each unit includes: Complete stack assembly, electrical line cord and an operation manual. Sieves required for particle separation are not included, but can be ordered separately on the back side of this page.

Prices effective January 1, 2012. This price list supercedes all previous price lists. All prices are FOB factory in New Berlin, Wisconsin, and are subject to change without notice. **Made in U. S. A.**

## Basic Specifications

### Capacity

#### 3" Clear Acrylic Frame Sieve

- 6 each U.S. Standard L3-S Sonic Sifter Sieves, or
- 3 each Precision Electroformed Nickel Mesh Sieves

*Sieves must be ordered separately.*

### Operating Ranges

Temperature - 0° to 120° F (-18° C to 49° C)

Humidity – any (non-condensing)

*For optimal results, temperature and humidity should be controlled.*

### Dimensions

10" w x 12" d x 23" h

25 cm x 31 cm x 61 cm

### Weight

43 lbs (20 kg)

### Built-in digital timer (+/- 2 seconds over 24 hours)

### Warranty

Limited one-year warranty

*Product specifications are subject to change without notice.*



## Advantech Manufacturing, Inc.

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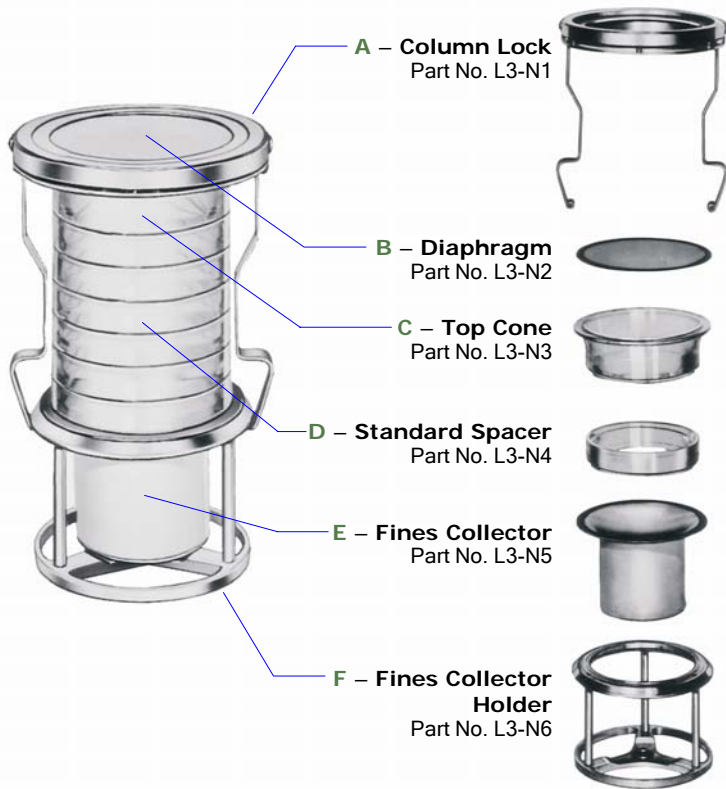
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## Sonic Sifter Separator Accessories For Laboratory Particle Size Analysis



| Item | Description                      | Part Number | Price |
|------|----------------------------------|-------------|-------|
| A    | Column Lock                      | L3-N1       |       |
| B    | Diaphragm                        | L3-N2       |       |
| C    | Top Cone                         | L3-N3       |       |
| D    | Standard Spacer                  | L3-N4       |       |
| E    | Fines Collector                  | L3-N5       |       |
| F    | Fines Collector Holder           | L3-N6       |       |
|      | <b>Complete Stack Assembly *</b> | L3-N7       |       |

\* Includes column lock, diaphragm, top cone, six standard spacers, fines collector and fines collector holder.

## Horizontal Pulse Accessory

A must for accurate separations below 45  $\mu\text{m}$ , this electromechanical device eliminates agglomerates in extremely fine powders. A tapping action alternates on opposite sides of the screen frame to create a high speed shock wave, breaking down agglomerated materials and reintroducing near-sized particles back into the air stream, and then back onto the screening media.

**L3-N8** (110vac / 50 or 60 Hz)

Includes: Power supply with electrical line cord for 110 volt operation, machined pulse assembly is designed to fit in the sieve stack taking the place of one sieve or spacer.



## Sonic Sifter Sieves 3" Diameter

- Stainless steel wire cloth of sieves listed meets the current ASTM E11 Sieve Specifications.
- Supplied with Certificate of Compliance.
- Clear acrylic frame. Dimensions: 3-1/2" O.D., 3" I.D. with an overall height of 5/8".

| U.S. Sieve No. | Opening Size      | Part Number | Price |
|----------------|-------------------|-------------|-------|
| #3.5           | 5.60 mm           | L3-S3.5     |       |
| #4             | 4.75 mm           | L3-S4       |       |
| #5             | 4.00 mm           | L3-S5       |       |
| #6             | 3.35 mm           | L3-S6       |       |
| #7             | 2.80 mm           | L3-S7       |       |
| #8             | 2.36 mm           | L3-S8       |       |
| #10            | 2.00 mm           | L3-S10      |       |
| #12            | 1.70 mm           | L3-S12      |       |
| #14            | 1.40 mm           | L3-S14      |       |
| #16            | 1.18 mm           | L3-S16      |       |
| #18            | 1.00 mm           | L3-S18      |       |
| #20            | 850 $\mu\text{m}$ | L3-S20      |       |
| #25            | 710 $\mu\text{m}$ | L3-S25      |       |
| #30            | 600 $\mu\text{m}$ | L3-S30      |       |
| #35            | 500 $\mu\text{m}$ | L3-S35      |       |
| #40            | 425 $\mu\text{m}$ | L3-S40      |       |
| #45            | 355 $\mu\text{m}$ | L3-S45      |       |
| #50            | 300 $\mu\text{m}$ | L3-S50      |       |
| #60            | 250 $\mu\text{m}$ | L3-S60      |       |
| #70            | 212 $\mu\text{m}$ | L3-S70      |       |
| #80            | 180 $\mu\text{m}$ | L3-S80      |       |
| #100           | 150 $\mu\text{m}$ | L3-S100     |       |
| #120           | 125 $\mu\text{m}$ | L3-S120     |       |
| #140           | 106 $\mu\text{m}$ | L3-S140     |       |
| #170           | 90 $\mu\text{m}$  | L3-S170     |       |
| #200           | 75 $\mu\text{m}$  | L3-S200     |       |
| #230           | 63 $\mu\text{m}$  | L3-S230     |       |
| #270           | 53 $\mu\text{m}$  | L3-S270     |       |
| #325           | 45 $\mu\text{m}$  | L3-S325     |       |
| #400           | 38 $\mu\text{m}$  | L3-S400     |       |
| #450           | 32 $\mu\text{m}$  | L3-S450     |       |
| #500           | 25 $\mu\text{m}$  | L3-S500     |       |
| #635           | 20 $\mu\text{m}$  | L3-S635     |       |

| Sieve Opening    | Part Number | Price | Sieve Opening     | Part Number | Price |
|------------------|-------------|-------|-------------------|-------------|-------|
| 3 $\mu\text{m}$  | L3-M3       |       | 60 $\mu\text{m}$  | L3-M60      |       |
| 5 $\mu\text{m}$  | L3-M5       |       | 65 $\mu\text{m}$  | L3-M65      |       |
| 10 $\mu\text{m}$ | L3-M10      |       | 70 $\mu\text{m}$  | L3-M70      |       |
| 15 $\mu\text{m}$ | L3-M15      |       | 75 $\mu\text{m}$  | L3-M75      |       |
| 20 $\mu\text{m}$ | L3-M20      |       | 80 $\mu\text{m}$  | L3-M80      |       |
| 25 $\mu\text{m}$ | L3-M25      |       | 85 $\mu\text{m}$  | L3-M85      |       |
| 30 $\mu\text{m}$ | L3-M30      |       | 90 $\mu\text{m}$  | L3-M90      |       |
| 35 $\mu\text{m}$ | L3-M35      |       | 95 $\mu\text{m}$  | L3-M95      |       |
| 40 $\mu\text{m}$ | L3-M40      |       | 100 $\mu\text{m}$ | L3-M100     |       |
| 45 $\mu\text{m}$ | L3-M45      |       | 105 $\mu\text{m}$ | L3-M105     |       |
| 50 $\mu\text{m}$ | L3-M50      |       | 125 $\mu\text{m}$ | L3-M125     |       |
| 55 $\mu\text{m}$ | L3-M55      |       | 150 $\mu\text{m}$ | L3-M150     |       |

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