

# 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 3.5" (75mm) 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 — and is capable of achieving separations over the range of 3µm to 5.6mm.

The Sonic Sifter is virtually maintenance free. There's no screen wear or particle attrition. Particle separations can be accomplished in less than 10 seconds under favorable conditions. And testing times can be cut by up to 90%, compared to other methods.

#### With the Sonic Sifter:

- Action can be varied for different densities and textures.
- Automatic timing ensures repeatable results.
- Separated fractions of material are retrievable.
- All sieves can be conveniently direct-tared on conventional analytical balances.
- Special see-through acrylic-framed sieves help determine proper power level and finish point.
- Power level to separate particles is infinitely adjustable.
- 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.
- No horizontal scrubbing of the particles occurs as in standard sieve shakers.
- Operation requires a very short learning curve.
- There's no need for periodic adjustments or recalibration.
- Unit holds up to six standard sieves or three precision mesh, double height sieves.



### Pricing

- Model L3P  
(120vac, 60Hz)
- Model L3P-15  
(120vac, 50Hz)
- Model L3P-25  
(240vac, 50Hz)
- Model L3P-26  
(240vac, 60Hz)

Includes: Complete stack assembly, electrical line cord for operation and instruction manual. Sieves required for operation are not included, but can be ordered from the table on the other side.

### Basic Specifications

#### ■ Power Requirements

Model L3P	120 volts, 60 cycles
Model L3P-15	120 volts, 50 cycles
Model L3P-25	240 volts, 50 cycles
Model L3P-26	240 volts, 60 cycles
Consumption	100 Watts

#### ■ Operating Ranges

Temperature	0° to 120° F (-18° C to 49° C)
Humidity	any (non-condensing)

For best results, temperature and humidity should be controlled.

#### ■ Dimensions

Weight	43 lb (20 kg)
Cabinet	10"w x 12"d x 23"h 25 cm x 31 cm x 61 cm

#### ■ Built-in digital timer

### Warranty

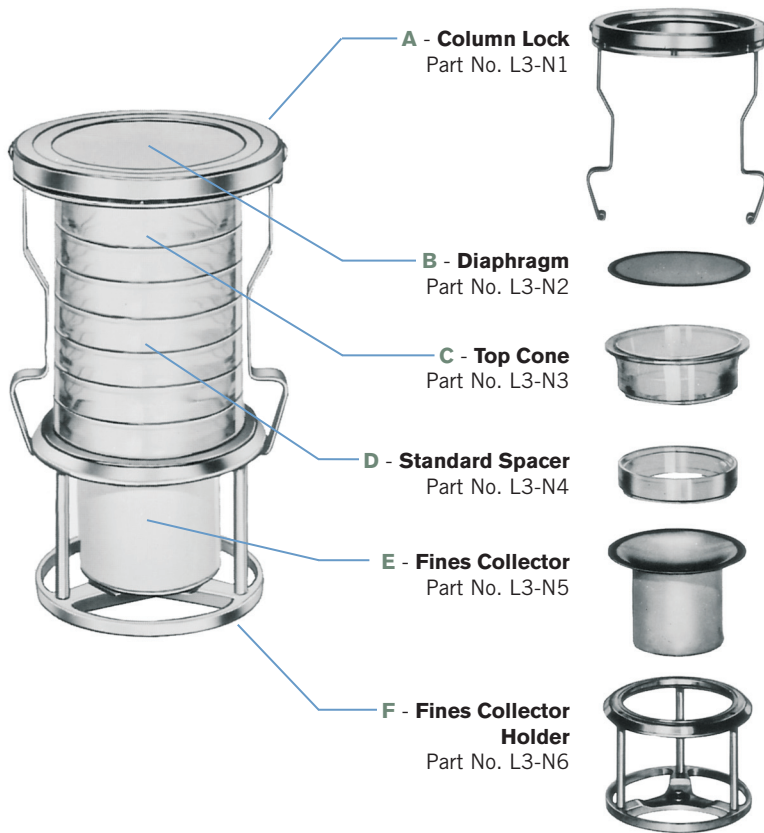
- Limited one-year warranty on all units

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# Sonic Sifter Separator Accessories

## For Laboratory Particle Size Analysis



Item	Description	Part Number	Unit 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.

### The Model L3-N8 Horizontal Pulse Accessory

A must for accurate separations below 45µm, 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.

(110 vac 50 or 60 HZ)

Includes: Power supply with electrical line cord for 110 volt operation, machined pulse assembly designed to fit in the sieve stack of the Sonic Sifter Separator.



### U.S. Standard Sieves

#### 3" (76.2 mm) Diameter

- U.S. Standard sieves listed meet the current sieve specifications of ASTM and ISO.
- Supplied with Certificate of Compliance to U.S. and International Standards.
- Available in stainless steel and brass mesh where noted.
- 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	Catalog Number Stainless Steel	Catalog Number Brass	Unit Price
3.5	5.60mm	L3-S3.5	L3-B3.5	
4	4.75mm	L3-S4	L3-B4	
5	4.00mm	L3-S5	L3-B5	
6	3.35mm	L3-S6	L3-B6	
7	2.80mm	L3-S7	L3-B7	
8	2.36mm	L3-S8	L3-B8	
10	2.00mm	L3-S10	L3-B10	
12	1.70mm	L3-S12	L3-B12	
14	1.40mm	L3-S14	L3-B14	
16	1.18mm	L3-S16	L3-B16	
18	1.00mm	L3-S18	L3-B18	
20	850µm	L3-S20	L3-B20	
25	710µm	L3-S25	L3-B25	
30	600µm	L3-S30	L3-B30	
35	500µm	L3-S35	L3-B35	
40	425µm	L3-S40	L3-B40	
45	355µm	L3-S45	L3-B45	
50	300µm	L3-S50	L3-B50	
60	250µm	L3-S60	L3-B60	
70	212µm	L3-S70	L3-B70	
80	180µm	L3-S80	L3-B80	
100	150µm	L3-S100	L3-B100	
120	125µm	L3-S120	L3-B120	
140	106µm	L3-S140	L3-B140	
170	90µm	L3-S170	L3-B170	
200	75µm	L3-S200	L3-B200	
230	63µm	L3-S230	L3-B230	
270	53µm	L3-S270	L3-B270	
325	45µm	L3-S325	L3-B325	
400	38µm	L3-S400	L3-B400	
450	32µm	L3-S450	-	
500	25µm	L3-S500	-	
635	20µm	L3-S635	-	

### Precision Sieves

#### 3" (76.2 mm) Diameter

- Precision sieves listed meet the current sieve specifications of ASTM E 161 and ISO.
- Electroformed nickel mesh.
- Clear acrylic frame dimensions: 3-1/2" O.D., 3" I.D. with an overall height of 1-1/4".

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

Prices effective January 1, 2009. This price list supercedes all previous price lists. All prices are FOB factory in New Berlin, Wisconsin, and are subject to change without notice.