SH800 and MA900 Sorting Chip Guide

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Part number	LE-C3207	LE-C3210		LE-C3213	
Nozzle size	70 µm	100 µm		130 µm	
Mode		Standard	Targeted		
Drop frequency	~50 K	~30 K	~22 K	~12 K	
(Empty drops/second)					
Max suggested* event rate (Total events/second)	12 K	6 K	<4 K	2.5 K	
	*When sorting for purity, do not exceed the indicated				
Drop volume	1.5 nL	3 nL	4 nL	7.9 nL	
Sorted events/1 mL (of sorted volume)	~700 K	~333 K	~250 K	~40-125 K	
Application	<ul> <li>Fastest sort speed</li> <li>Limited to small particles</li> <li>Runs at highest pressure</li> </ul>	<ul> <li>Most common nozzle for various cell types</li> <li>Targeted mode improves targeting precision of larger cells with uneven geometry into tubes or multiwell plates</li> </ul>		<ul> <li>Runs at lowest pressure</li> <li>Slowest sort speed</li> <li>Can sort any cell size under 25 μm</li> </ul>	
Cell type examples	RBC <i>E. Coli</i> Yeast	Bone Marrow	CHO Macrophages	ES cells	Neurons Hybridoma
	Spleen Lympl	Cultured Stem Cells		K562 Fibroblasts	HeLa HEK-293T
FSC gain	16 8	4		0.5-1	
<b>Particle size</b> (Nozzle size must be 5 to 7x larger than particle size)	<10 µm	<18 µm		<25 μm	
	Cell Sorter software a	utocalibrates optimal clock and drive for each individual chip.			
Pressure	40 psi		psi	9 psi	
Frequency (clock)	40–52 kHz	27–31 kHz	21-23.5 kHz	10-12 kHz	
Amplitude (drive)	30–50%	10-20%	30-50%	30-50%	
Droplet profile	- - - - - - -	••••••••	• • •		

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