SH800 and MA900 Sorting Chip Guide

## SH800 and MA900 Sorting Chip Guide

| Part number  | LE-C3207   | LE-C3210   | LE-C3213   |
|--|--|--|--|
| Nozzle size  | 70 μm  | 100 µm   | 130 µm   |
| Mode   |  | Standard Targeted  |  |
| Drop frequency   | 50 //  |  | 121/   |
| (Empty drops/second)   | ~50 K  | ~30 K ~22 K  | ~12 K  |
| Max suggested* event rate<br>(Total events/second)                                 | 12 K   | 6 K <4 K   | 2.5 K  |
|  | *When sorting for purity, do not exceed the indicated event rate.  |  |  |
| Drop volume  | 1.5 nL   | 3 nL 4 nL  | 7.9 nL   |
| Sorted events/1 mL<br>(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 multi-well plates</li> </ul> | <ul> <li>Provides best viability</li> <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<br>E. Coli   | Bone Marrow CHO  | Neurons<br>ES cells  |
|  | Yeast<br>Spleen Lympl  | Cultured Stem Cells  | Fibroblasts HEK-293T   |
| FSC gain   | 16 8   | 4  | 0.5-1  |
| <b>Particle size</b><br>(Nozzle size must be 5 to 7x<br>larger than particle size) | <10 µm   | <18 µm   | <25 µm   |
|  | Cell Sorter software autocalibrates optimal settings for each individual chip                                |  |  |
| Pressure   | 40 psi   | 20 psi   | 9 psi  |
| Frequency (clock)  | 40–52 kHz  | 27–31 kHz 21–23.5 kHz  | 10-12 kHz  |
| Droplet profile  |  |  | •  |

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