MA900 NOZZLE GUIDE

**PART #**
LE-C3207  | LE-C3210  | LE-C3213
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**NOZZLE SIZE**
70 um  | 100 um  | 130 um

**ANALYSIS**
70,000 EVENTS / SEC FOR ALL CHIP SIZES
0.5 um small particle resolution

**Mode**

**NOZZLE SPEED**
(EMPTY DROPS / SECOND)
~50K drops/sec  | Standard  | Targeted  | ~12K drops/sec
10-12K eps  | ~30K drops/sec  | ~22K drops/sec

**SORT SPEED**
(TOTAL EVENTS / SECOND)
6K eps  | <4K eps  | 2.5K eps

**DROP VOLUME**
1.5 nL  | 3.5 nL  | 7.9 nL

**SORTED EVENTS / 1mL**
(OF SORTED VOLUME)
~700K  | ~300K  | ~130K

For any nozzle, aim for <1 cell every 5 empty drops for good sort efficiency

**NOZZLE APPLICATION**
- Fastest sort speed
- Limited to small particles
- Runs at highest pressure

- Most common nozzle for various cell types
- Targeted Mode reduces side-stream fanning & improves targeting precision of larger cells with uneven geometry into tubes or multi-well plates
- Gives best cell viability
- Runs at lowest pressure
- Slowest sort speed
- Can sort any cell size under 30um

**Approximate FSC Gain**
E. Coli  | Lymphocytes  | PBMC  | Bone Marrow  | CHO  | HEK-293T
Yeast   | PBMC         |      |               | CHO  | HEK-293T

**PARTICLE SIZE**
(Nozzle size must be 5 to 7x larger than particle size)
10-16   | 4-16     | 0.5-16 | 0.5-16
<10um   | <18um    | <25um   | <30um

**PRESSURE**
40 psi | 20 psi | 9 psi
~40-52 kHz | ~27-31 kHz | ~21-23 kHz

**FREQUENCY / CLOCK**
30-50%  | 10-20%  | 30-50%
Fast   | Regular | Fast

**AMPLITUDE / DRIVE**

**SATELLITE MERGE**
Fast

**STREAM EXAMPLES**
Satellite drop

MA900 Software auto-calibrates optimal settings for each individual chip