



Mode	Standard	Targeted	
<b>DROP Frequency</b> (EMPTY DROPS / SECOND)	~50K drops/sec	~30K drops/sec	~22K drops/sec
<b>MAX SUGGESTED* DATA RATE</b> (TOTAL EVENTS / SECOND)	12K eps	6K eps	<4K eps
<b>DROP VOLUME</b>	1.5 nL	3.5 nL	7.9 nL
<b>SORTED EVENTS / 1mL</b> (OF SORTED VOLUME)	~700K	~300K	~130K

*\*When sorting for purity, do not exceed the indicated data rates*

**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 25um

E. Coli	RBC	Bone Marrow	Macrophages	ES cells	Neurons
Yeast	Lymphocytes	CHO	HEK-293T	Cancer Cell Lines	Fibroblasts
				Cultured Stem Cells	

**FSC Gain**

**PARTICLE SIZE**  
(Nozzle size must be 5 to 7x larger than particle size)

16	8	4	0.5
<10um		<18um	<25um

MA900 Software auto-calibrates optimal Clock and Drive for each individual chip

<b>PRESSURE</b>	40 psi	20 psi	9 psi
<b>FREQUENCY (Clock)</b>	42-52 kHz	27-31 kHz	21-23 kHz
<b>AMPLITUDE (Drive)</b>	30-50%	10-20%	30-50%
<b>DROPLET PROFILE</b>			