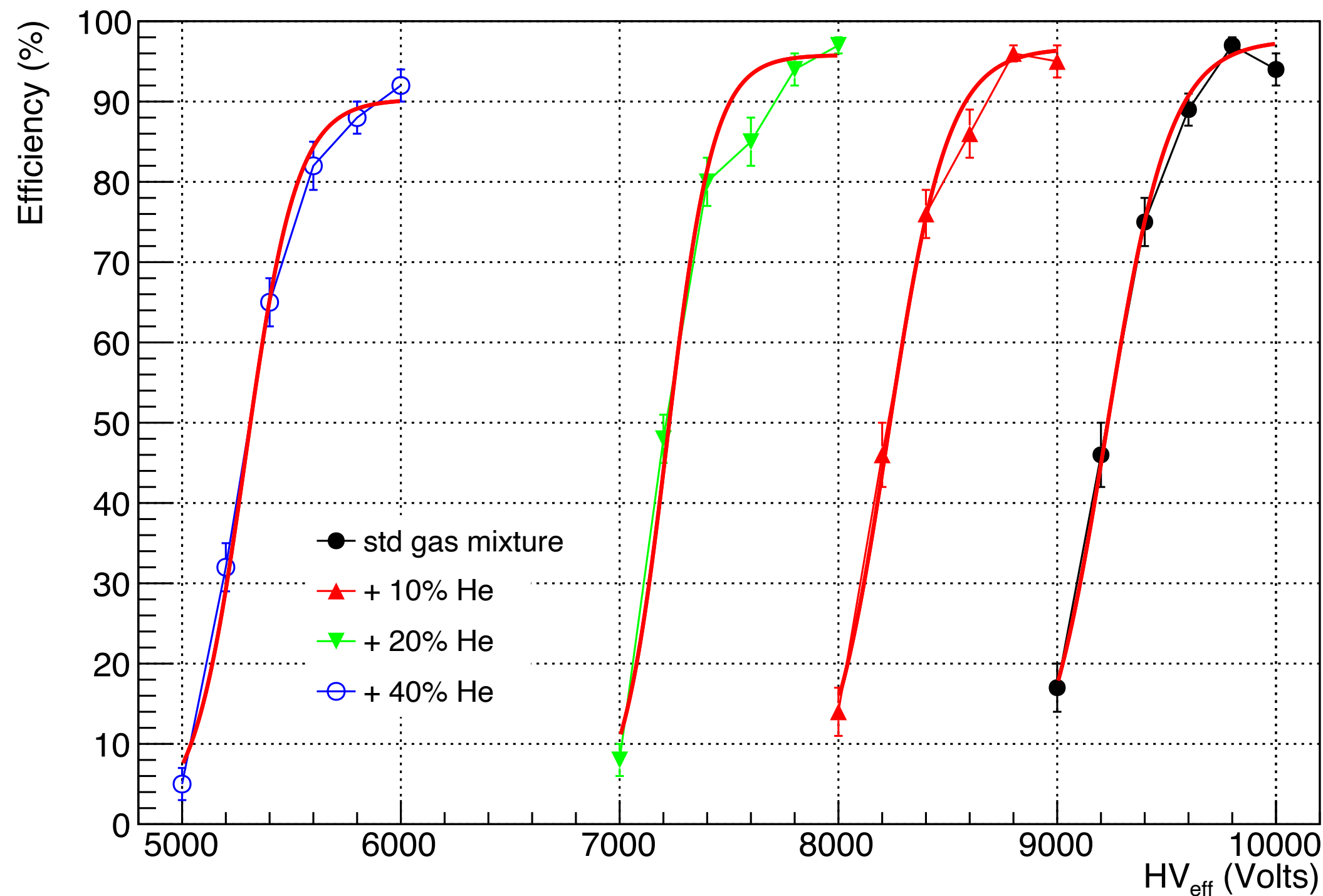# Low pressure performance

Expected pressure at high quote: 600 mbar

Effective Voltage is lower with respect to sea lev

$$V_{eff} = V_{app} \frac{T}{T_0} \frac{p_0}{p}$$

Gas mix	$P_{eqivalent}$ (mbar)	Results from fit		Streamer fraction at max
		HV_{50} (V)	Effmax (%)	
STD	990	9220 +/- 16	98 +/- 1	1 +/- 1
90 % STD + 10% He	902	8220 +/- 16	97 +/- 1	1 +/- 1
80 % STD + 20% He	792	7217 +/- 12	96 +/- 1	1.3 +/- 0.9
60 % STD + 40% He	594	5287 +/- 15	90 +/- 1	17 +/- 3

STD gas mixture measured at 990 mbar

90% STD + 10% He equivalent to 0.9 * 990 = **900** mbar
80 % STD + 20% He equivalent to 0.8 * 990 = **792** mbar
60% STD + 40% He equivalent to 0.6 * 990 = **594** mbar