## Ar-CO2 Gas Studies and Clean Room Construction

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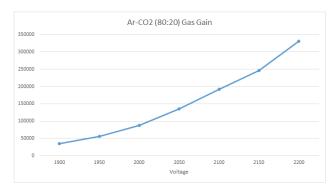
July 2, 2015

#### Overview

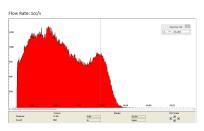
- Gas Gain (Completed)
- ► Flow Rate Tests
- Clean Room Construction
- Drift Time Studies (In Process)

### Gas Gain

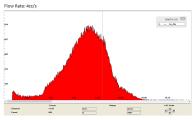
Voltage	Gain
1900	34691
1950	55616
2000	87555
2050	135737
2100	191905
2150	245955
2200	330947



#### Flow Rate









## Pile-Up Rejection

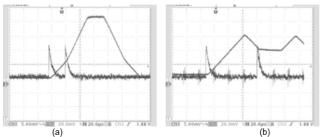
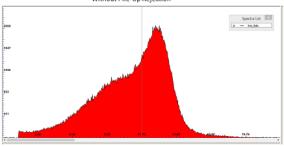


Figure 2-7. Oscilloscope traces illustrating the dead time and pile-up reject performance of the DP4

# Comparison of Pile-Up Rejection On/Off





## Clean Room

