

Pressure readings

Friday, December 29, 2017 1:04 PM

Pressure history

Below is a reference for the pressure measurements made. It is the same data as in the reference table but gathered here to identify trends. The readings will likely jump up and down as we perform various activities (cycling Ti sub, ending the bake, etc.) but should provide a general trend of the pressure changes at each gauge.

- Descriptions of positions of the ion gauges
- RGA ion gauge - the ion gauge on the cross that is connected to the turbo. This ion gauge travels with the pumping station and is not a permanent fixture of the Neutral apparatus
 - Chamber ion gauge - the ion gauge on arm B (the one pointing towards the computer) of the MOT chamber
 - Source ion gauge - the ion gauge directly beneath the oven on the source side of the apparatus

All pressures are given in **Torr** as read from the multi-gauge reader. Refer to the activity reference to see what action was taken when contextualizing the pressure readings.

Date	Time	RGA ion gauge
2017.11.09	1541	1.20E-05
2017.11.10	1207	1.00E-06
2017.11.10	1948	8.00E-07
2017.11.13	1420	1.50E-07
2017.11.14	1327	1.10E-07
2017.11.15	1538	5.40E-08
2017.11.17	1703	4.30E-08
2017.11.20	1638	4.00E-08
2017.12.21	1105	5.00E-06
2017.12.21	1125	4.10E-07
2017.12.22	1613	1.30E-07
2017.12.22	1845	6.00E-07
2017.12.23	1444	1.90E-07
2017.12.26	1346	6.40E-08
2017.12.27	1058	2.70E-08
2017.12.27	1743	1.50E-07
2017.12.27	1838	2.30E-08
2017.12.28	1258	2.20E-08
2017.12.29	1200	2.00E-08
2017.12.29	1826	6.8e-8
2018.01.02	1257	4e-8

Date	Time	Chamber ion gauge
2017.12.19	1800	9.70E-06
2017.12.20	1005	8.50E-07
2017.12.20	1357	7.00E-07
2017.12.20	1409	5.00E-05
2017.12.20	1734	1.00E-05
2017.12.21	1100	6.90E-07
2017.12.22	1127	3.40E-07
2017.12.22	1358	4.70E-08
2017.12.22	1835	1.30E-07
2017.12.23	1444	2.40E-07
2017.12.26	1305	8.50E-08
2017.12.26	1655	4.00E-07
2017.12.27	936	8.00E-09
2017.12.27	1008	8.00E-09
2017.12.27	1726	1.70E-07
2017.12.27	1852	5.60E-09
2017.12.28	1312	5.00E-09
2017.12.28	1810	7.80E-09
2017.12.29	1022	3.50E-09
2017.12.29	1836	3.4e-8
2018.01.02	0939	6.0e-9
2018.01.02		

Date	Time	Source ion gauge
2017.12.21	1127	4.00E-06
2017.12.21	1145	1.90E-06
2017.12.22	1645	1.10E-06
2017.12.22	1810	3.00E-06
2017.12.23	1444	8.10E-07
2017.12.26	1211	1.90E-07
2017.12.27	1135	1.00E-07
2017.12.27	1709	2.50E-07
2017.12.28	1316	8.70E-08
2017.12.29	1146	9.00E-08