Equipment Available in the FCHRL

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- Two Precision Flow Technologies SOFC test stations capable of supplying predefined gas mixtures (CO, CO$_2$, H$_2$, N$_2$ and O$_2$)
- Two Precision Flow Technologies PEM test stations with in-built load for 50 cm squared single cells
- Varian 4 channel Gas Chromatograph configured for fuel cell analysis
- 150W programmable load that can operate in constant current, power, resistance, or voltage mode
- Four channel 1500W power supply for electrolysis and supplemental power requirements during fuel-cell testing
- LabView based control and data acquisition system
- Pinechem Potentiostat Model AFCBP1 with built in electrode unit and sweep generator for cyclic voltammetry studies
- Potentiostat from Princeton Applied Research: Model 283 with lock-in amplifier for AC impedance analyses
- Princeton Applied Research potentiostat model 2273 with a 20A current booster. Includes software and hardware for CV, AC impedance and corrosion studies
- Sintering oven with inert gas purge capabilities: Barnstead Model 6000
- Drying oven for preparation of inks and films
- Carver hot press with temperature controlled double platens
- Electrode fabrication drawing tables
Overview of the FCHRL in MRC 137
One of two PFT SOFC test stands.