

APS-TD Cleanroom Facilities

D. Bice C. Baker, B. Kuhn, A. Penhollow

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Cleanrooms

4 cleanrooms within the control of APS-TD, all with their own class 1000, Class 100, and Class 10 areas.

Each cleanroom equipped with areas suited for parts cleaning and preparation, particle free assemblies, UHV evacuation, leak detection and residual gas analysis.



High Pressure Rinsing

3 cleanrooms equipped with high pressure rinsing units, including 3 vertical and 1 horizontal. Rinsing can be done at pressures up to 1300 p.s.i., adjustable down to <400 p.s.i.

Fan jet spray nozzles rotate on each, while vertical translation is provided by a Bosch type rail. Translation speeds are fully adjustable.

Water is made via >18M Ω DI water plant.

Multiple Extraneous Capabilities

Facilities also have 2 Low-T / Mid T- ovens, many ultra sonic cleaning devices, and specialized optical inspection bore stations, along with dedicated D.I. water plants.



High Temperature Vacuum Furnaces

Currently 2 UHV furnaces are in use, with a 3rd being re-commissioned for smaller component and sample studies.

The largest furnace can accommodate a 650MHz 5-cell cavity, while the smallest can accommodate higher frequency single cell cavities.

Bakes are done in vacuum, capable of max operating temperatures between 1100c and 1300c.

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