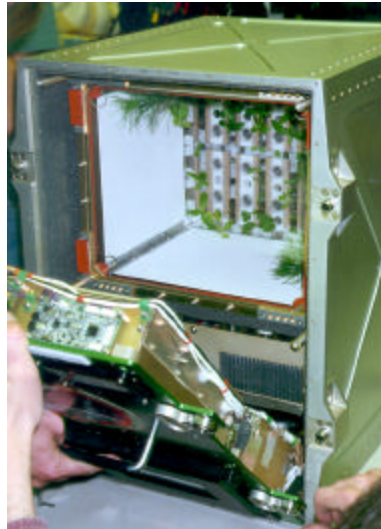


## Research Applications

- Biotechnology
- Agriculture

## General Features

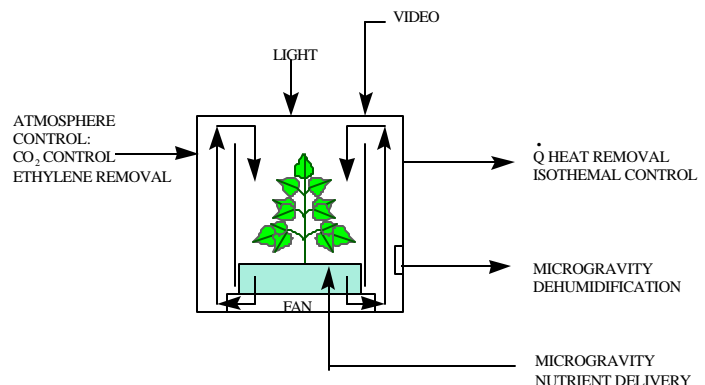
- Space flight plant growth chamber
- Nutrient delivery system
- 6.35 cm rooting depth
- 25 cm x 30 cm x 25 cm aerial tissue volume
- Holds up to 120 plants
- Provides temperature, humidity, CO<sub>2</sub>, and lighting control
- Data acquisition for monitoring plant growth and performance
- Video downlink
- Telescience operations



Fully loaded PGBA



PGBA being transferred from the shuttle middeck into the Spacelab module during a space flight mission



Schematic of plant growth system within PGBA

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