Hardware Description

The Neurospora (microorganism) Experiment Packages are designed to contain a large number of *Neurospora conidia* under conditions which prevent contamination and development of anoxia. Conidia are deposited on moist Millipore filters held on polypropylene screens to maintain both sterility and high humidity. A porous retaining ring is used to hold the Millipore filter in place on the screen and a polypropylene barrier is placed over the unit to contain each conidial sample within each disk. The sample holders are stacked in groups of ten and held together and attached to the module cap with three screws. The assembled module is screwed into a housing to complete the package assembly. The materials are autoclavable, biocompatible, and cause minimal radiation shielding and backscattering.

Radiation Dosimeters: Three independent systems of thermoluminescent dosimetry are used:

- EG&G CaF2:Mn Mini Thermoluminescent Dosimeters
- EG&G LiF Mini Thermoluminescent Dosimeters
- Con-Rad LiF-Teflon Disk Dosimeters (5 mm thick)

Neurospora (Microorganism) Experiment Package

Specifications

Dimensions: Unknown
Weight: Unknown
Power: Unknown

Data Acquisition

Radiation data

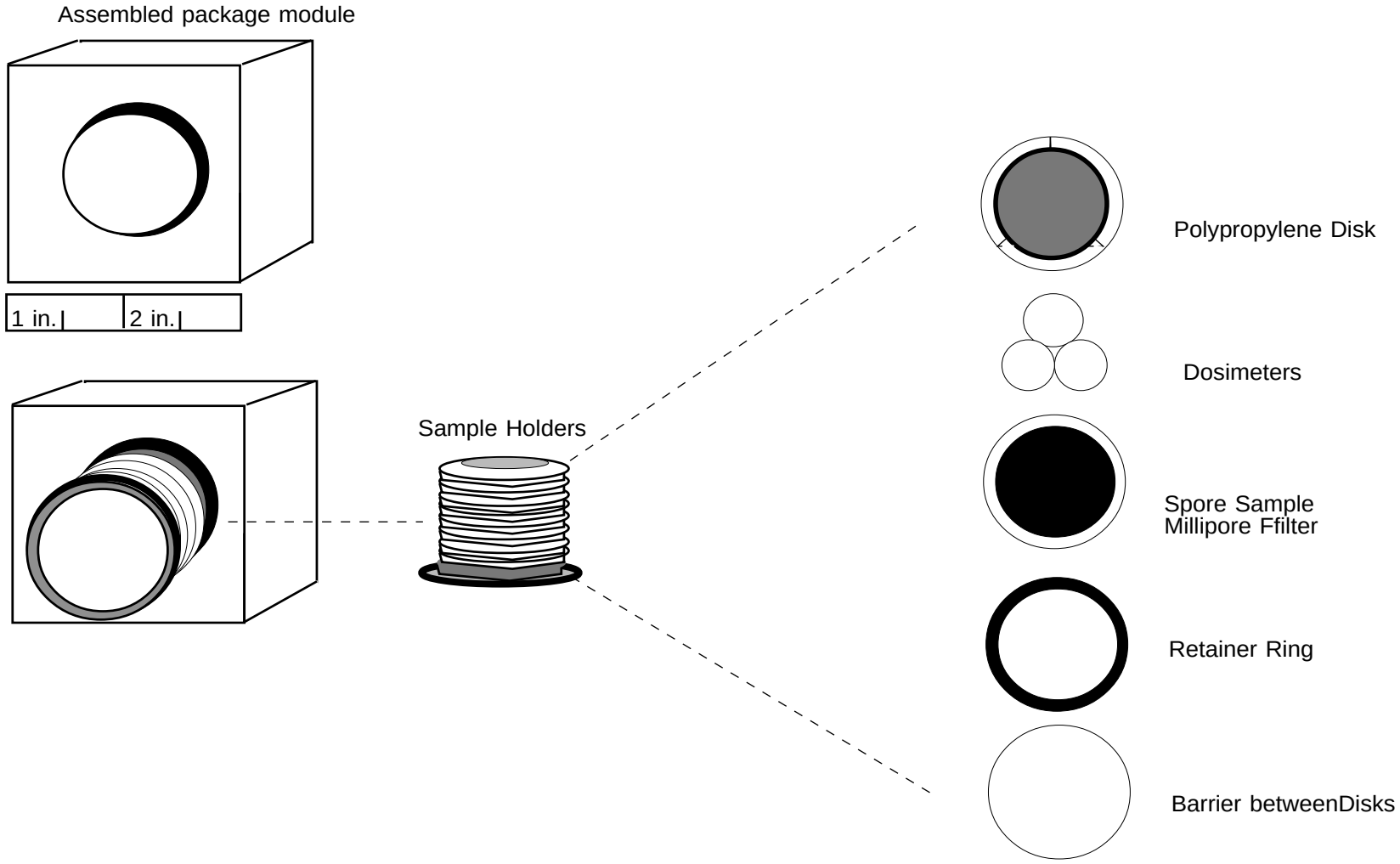
Related Ground-Based Hardware

None

Publications

- de Serres, F.J. and B.B. Webber: The Combined Effect of Weightlessness and Radiation on Inactivation and Mutation-Induction in *Neurospora crassa*. *Bioscience.* Vol. 18 (No. 106): 590-595, December 1969.

- *Biosatellite Project Historical Summary Report.* NASA-Ames Research Center. J.W. Dyer, ed. December 1969.



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