



Biotechnology Refrigerator (BTR)



Engineering Description

The BTR provides .57 cubic ft. of refrigerated storage for temperature-labile cell science supplies and biological samples obtained during on-orbit cell science and tissue engineering Investigations. When programmed to a temperature set point, the BTR maintains the temperature of its internal chamber within an acceptable range of set-point temperature. In an ambient environment [80 degrees Fahrenheit (27 degrees Celsius) and 10.2 psia], the BTR can maintain an internal temperature of 4 to 12 degrees Celsius with an accuracy of 1 plus or minus degree Celsius.

Flight History

Past

Sept 1997 STS-86/Mir 6
Jan 1998 STS-89/Mir 7
Aug 2001 STS-105/7A.1
Dec 2001 STS-108/UF-1
Apr 2002 STS-110/8A
May 2002 STS-111/UF-2
Aug 2002 STS 112/9A

Future

Jan 2003 STS-114/ULF1