

Objective:

The Cryogenics Facility of MRIF provides a centralized distribution center for liquid nitrogen and liquid helium on the North Campus. It plays an important role in the research activities of a number of researchers from the departments of Physics, Chemistry, Geology, Electrical Engineering and Mechanical and Aerospace Engineering.

Charge:

The current charges for liquid helium and liquid nitrogen are listed at the MRIF web page:

www.acsu.buffalo.edu/~ub-mrif

The liquid helium cost assumes recovery of the gas.

Instrumentation:

1. Process Systems Model 1410 Helium Liquefier
2. Process Systems Model 50B helium gas recovery compressor.

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The facility is equipped with a recently acquired Process Systems Model 1410 Helium Liquefier capable of a liquefaction rate of 40 liters/hour. The liquefier is sited on the ground floor of Fronczak Hall which has building-wide helium gas recovery. Liquid nitrogen is distributed centrally from a 12,000 liter storage container, and 7 LS-160 and an LS-220 portable containers.