

# Abbess Provides Thermal Vacuum Systems

Abbess Instruments and Systems, Inc., of Holliston MA, is entering into its 30th business year designing and manufacturing thermal and vacuum systems for experimental use, testing and industry process. Abbess has always been an evolving company, taking up the challenges of a broad customer base in industry, basic sciences and aerospace. Included among its customers are the Sandia and Oak Ridge National Laboratories (CSA CSM), NASA, the US Air Force, Boeing and Northrup Grumman. The deep cryo quenching needs of demanding experimentation and the call to integrate temperature management into high altitude, low earth orbit flight and deep space simulations have led the Abbess team towards the development of large capacity deep temperature systems.

Recently the Abbess team has taken the same focus upon performance capacity and precision control and brought it to bear on the cryo storage market. Abbess now provides custom integration of redundant modular cascade refrigeration into large and



**Custom designed modular cryo storage: Control/power and high stage compression module.**

complex bio sample storage systems and has developed a line of large capacity -80°C cascade bath/reservoir chillers by working directly with leaders in the cold chain industry to develop support equipment. ■



**Custom designed thermal platen in high vacuum chamber system with -80°C cascade refrigeration.**



**Innovative Solutions  
in Cryogenic  
Instrumentation**



## TEMPERATURE CONTROLLERS

**2 or 4 MULTIPURPOSE  
INPUT CHANNELS  
OPERATION TO <100mK  
CONTROL LOOPS TO 100W  
ETHERNET CONNECTED**



## TEMPERATURE MONITORS

**2, 4 OR 8 CHANNELS  
OPERATION TO <500mk  
INDUSTRIAL SECURITY  
WEB 2.0  
MODBUS**

## TEMPERATURE SENSORS

## CRYOGENIC ACCESSORIES

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