

Advanced Research Systems, Inc.

www.arscryo.com

- ARS is honored to support the International Neutron Scattering Community and the SE@NSF 2008 Workshop.
- ARS has been in the business of supplying Closed Cycle Cryocoolers for Research since 1986.
- ARS manufactures customized cryocoolers in 3 basic sizes:
 - CS202 Small
 - CS204 Medium
 - CS210 Large.
- CS302 is a specialized 3 stage cooler licensed from ILL.



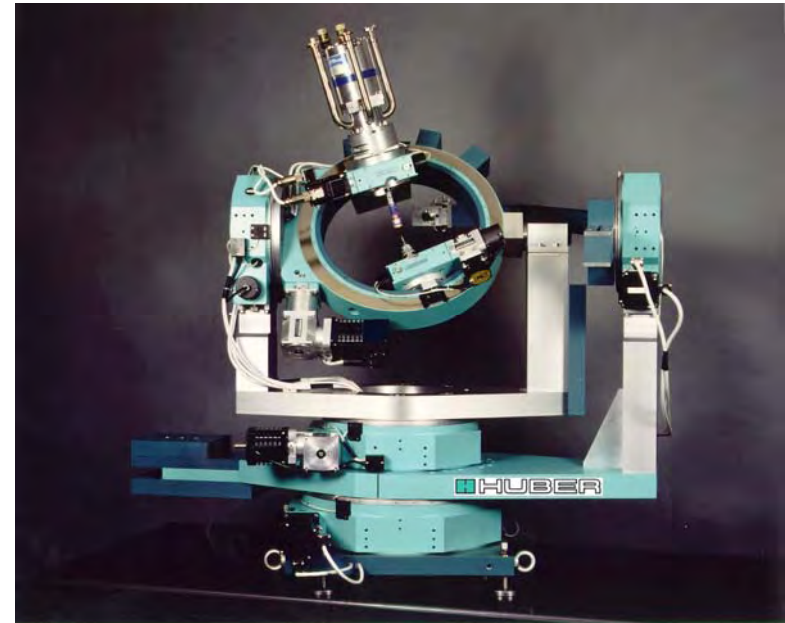
ARS is located In Macungie
Pennsylvania.
At the foothills of the Pocono mountains
where the Amish farms
Are famous for their traditional style and
beauty.

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Cryocooler Model: CS202:

- Available as 4K, 6K and 10K.
- Inexpensive.
- Compact size for Goniometer mounting, can be installed on Huber 4 and 6 circle diffractometers.
- High Temperature option available
 - 450K
 - 700K
- Low Cooling Power. Works well for sample in vacuum applications.



Courtesy: Mr. Norman Huber.

HUBER GmbH

Cryocooler Model: CS204:

- Available as 4K, 6K and 10K.
- Moderate cooling power on both stages.
- Fast Cooldown.
- Compact and Economical top loading cryostat.
- Top Loader performance:
 - Sample temperature 5-6K
 - Cooldown time ~3 Hrs.



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Cryocooler Model: CS210:

- Available as 4K, and 10K.
- High cooling power on both stages.
- Fast Cooldown as top loader cryostat.
- Top Loader performance:
 - Sample temperature Sub 4K
 - Cooldown time <3 Hrs.
- Large in size and heavy.



SMASH – SNS Modular Adaptable Sample environment Housing

L. Santodonato, L Walker, N. Porter, M. Ruiz



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Cryocooler Model: CS302:

- 202 with JT 3rd stage.
 - Min temperature – 1.2K to 1.7K
 - Max Temperature – 325K
- Licensed from ILL.
- Compact size for Goniometer mounting, can be installed on Huber 4 and 6 circle diffractometers. Partial rotation.
- Low Cooling Power. Works well for sample in vacuum applications.
- Further development being done at ILL and ESRF with He3 recirculation system and 4K base cooler.

