

Cryogen-Free Dilution Refrigerator Systems

BlueFors

CRYOGENICS



STANDARD MODELS:

	Model BF-SD250:	Model BF-LD400:
Base temperature	<13 mK	<10 mK
Cooling power @ 100 mK	~250 μ W	~400 μ W
Cooldown time to base	<18 hrs	<20 hrs

GENERAL FEATURES:

- Automated cooldown sequence
- Very low vibration levels (<0.1 μ m @ 1Hz)
- Preinstalled heaters and thermometers
- A lightweight vacuum chamber and radiation shield assembly, all with a special locking mechanism for easy one-man operation

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ULTRA COMPACT POSITIONERS:

Compatible with low temperature (less than 10 mK), UHV (5×10^{-11} mbar) and high magnetic fields (31 T).

TYPICAL APPLICATIONS:

- Sample positioning in SPMs (STM, AFM, CFM, SNOM)
- Beam and device alignment such as laser-beams, optical fibers, solid state waveguides
- Wafer or chip alignment inside SEM
- Crystal orientation in synchrotron or neutron beam facilities
- Sample rotation in high magnetic fields at low temperature

Laboratory Cryogenic Systems



Advanced Research Systems, Inc.



CLOSED CYCLE CRYOSTAT:

Displex pneumatically driven Gifford-McMahon closed cycle cryocooler designed for low sample vibrations.

FEATURES:

- Fully customizable
- Wide temperature range 1.7-800 K
- Ultra low vibrations (3-5 nm) option
- Ultra high vacuum (CF flange model)
- Open cycle J-T circuit model (<1.7 K)
- 450, 800 K high temperature interface option
- Sample in static exchange gas, or in vacuum

ROCKGATE
ロックゲート株式会社

1-11-12 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan
TEL: +81-3-5805-8411 FAX: +81-3-5805-8431
Mail: info@rockgateco.com URL: <http://www.rockgateco.com>