

easyLab Technologies Ltd
Science & Technology Centre
University of Reading, Earley Gate
Whiteknights Rd, Reading, RG6 6BZ, UK

phone: +44 (0)118 935 7272
fax: +44 (0)118 935 7271
email: info@easyLab.co.uk

Sales: sales@easyLab.co.uk
Support: support@easyLab.co.uk

Science Under Pressure

products



Diacell® LT-DAC System

RELATED PRODUCTS:

- [Boehler microDriller](#)
- [Diacell® CryoDAC-LT](#)
- [Diacell® OmniDAC-LT](#)
- [Diacell® OptiDAC-LT](#)
- [Optiprex PLS](#)

RELATED ACCESSORIES:

- [Diacell® Gas Membranes](#)
- [Diacell® GM Controller](#)
- [Diacell® Diamond Anvils](#)
- [Gasket Blanks](#)
- [Heaters](#)
- [Ruby Powder](#)
- [Support Plates](#)



Diacell® LT-DAC System

Turn-key fully integrated low temperature cryostat and diamond anvil cell system.

- ▶ The Diacell® LT-DAC enables experiments up to above 100 GPa and down to temperatures of the order of 5 K.
- ▶ The system combines and fully integrates the Diacell® OmniDAC-LT diamond anvil cell (DAC) with a pulse-tube-based Janis Model PTSHI-950-5 top-loading optical cryostat.
- ▶ The DAC is cooled (via exchange gas) by a Sumitomo SRP-062B two-stage pulse-tube cold head with 0.5 W cooling at 4.2 K at the second stage.
- ▶ Optical access is through fused silica windows (other materials available).
- ▶ Low vibration levels and small footprint.
- ▶ Water-cooled compressor comes with a full charge of high-purity helium gas

Technical Specifications:

Cryostat	Janis Model PTSHI-950-5
Diamond Anvil Cell	Diacell® OmniDAC-LT
Pressure Mechanism	Gas Membrane Drive
Top Angle	X-Ray: conical 50°
Bottom Angle	X-Ray: conical 50°
Lateral Access	16° of 2θ Accessible
DAC Diameter	51 mm
DAC Height	35 mm

Specifications subject to change without prior notice.

easyLab and Diacell are registered trademarks of easyLab Technologies Ltd.