



Products



Diacell® CryoDAC-LT

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- Optiprex Ruby Line
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- BeCu 5 mm Gasket Blanks
- Ruby Powder
- Gasket Indenter

Diacell® CryoDAC-LT

Miniature diamond anvil cell for low temperature applications.

Part of Diacell® CryoDAC Series.

- ◆ The Diacell® CryoDAC-LT is specifically designed for optical studies at high pressure and low temperature in top loading cryostats, such as the Diacell® CF Cryostat;
- ◆ The cell is driven by a hydraulic ram (included) located outside the cryostat. Thus, the pressure in the sample can be adjusted whilst at low temperatures. See CryoDAC-LT Insert for more details;
- ◆ A unique feature of the Diacell® CryoDAC-LT is that the load is applied to the top and bottom plates, which bear directly on the diamond anvils;
- ◆ Maximum pressures of up to above 20 GPa are easily obtained;
- ◆ This cell is suitable for Raman or any other optical work at low temperatures;
- ◆ Provisions have also been made to enable electrical measurements by making use of side ports and electrical connector on the insert.

Technical Specifications:

Cell Material	Beryllium Copper Alloy
Anvil Support Plate	Beryllium Copper Alloy
Pressure mechanism	Screw Drive / Hydraulic Ram
Maximum pressure	20 GPa
Top / Bottom angle	17° / 40° along vertical axis
DAC Diameter / Height	19 mm / 35 mm
Working Distance to Sample	11.5 mm
Numerical aperture	0.34

Specifications subject to change without prior notice.
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