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Science Under Pressure

## products



Diacell® CryoDAC-LT

### RELATED PRODUCTS:

- Diacell® CryoDAC-Tesla
- Diacell® CryoDAC-Mega
- Diacell® CryoDAC-Nitro
- Optiprex PLS

### RELATED ACCESSORIES:

- Anvil Jigs
- Diamond Anvils
- Gasket Blanks
- Ruby powder
- Support Plates

## Diacell® CryoDAC-LT

Clamp Cell for Low Temperature Applications  
 Part of the Diacell® CryoDAC Series

[Formerly MCDAC]

- ▶ The Diacell® CryoDAC-LT is specifically designed for optical studies at high-pressures and low temperatures in top-loading cryostats, such as the Oxford Instruments Optistat CF.
- ▶ The cell is driven by a hydraulic ram (complete hydraulics included), located outside the cryostat. Pressure can be adjusted whilst the sample is held at low temperatures.
- ▶ A unique feature of this cell 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 obtained.
- ▶ This cell is suitable for Raman and optical spectroscopy. Provisions have also been made to enable electrical work.

### Technical Specifications:

Cell Material	Beryllium Copper Alloy
Anvil Support Plate	Beryllium Copper Alloy
Pressure Mechanism	Screw Drive / Hydraulic Ram
Top Angle	16° Along Vertical Axis
Bottom Angle	44° Along Vertical Axis
DAC Diameter	19 mm
DAC Height	27 mm
Working Dist. to Sample	8 mm

Specifications subject to change without prior notice.

