



Products



Diacell® HeliosDAC

RELATED PRODUCTS:

- Diacell® HeliosDAC Plus
- Diacell® μScopeDAC-HT(G)
- Diacell® GM Controller
- Diacell® iGM Controller
- Optiprex Ruby Line
- Boehler μDriller

RELATED ACCESSORIES:

- Diacell® Design 3.1 mm Anvils
- Stainless Steel 3.1 mm Anvils Rings
- Inconel 10 mm Gasket Blanks
- Diacell® Heaters & Power Supplies
- Gasket Indenter
- Gas Membrane
- Diacell® Anvil Jigs

Diacell® HeliosDAC

Diamond anvil cell for high pressure and high temperature applications.

- ◆ The Diacell® HeliosDAC is suitable to both optical (numerical aperture of 0.42) and X-ray (2θ up to 50°) experiments;
- ◆ Using an internal compact resistive gasket heater the Diacell® HeliosDAC is able to reach over 1000°C ;
- ◆ Maximum pressures of up to above 100 GPa may be obtained with the Diacell® HeliosDAC ;
- ◆ Being a gas membrane driven DAC, the pressure within the Diacell® HeliosDAC can be adjusted whilst at high temperatures ;
- ◆ The Diacell® HeliosDAC employs a series of unique insulating stages to maintain the cell at reasonable temperature even when operating at full power;
- ◆ The Diacell® Helios DAC Plus is another version of this cell that employs Boehler-Almax anvils, enabling even larger X-ray apertures.

Technical Specifications:

Cell Material	Stainless Steel AISI 440C
Anvil Support Plate	Tungsten Carbide
Pressure mechanism	Gas membrane
Maximum Pressure	100 GPa
Top/Bottom Angles	50°
DAC Diameter / Height	56 mm / 45 mm
Working Distance to Sample	14 mm
Numerical Aperture	0.42

Specifications subject to change without prior notice.
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