

Products



Diacell® HeliosDAC

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Diacell® HeliosDAC

Gas membrane diamond anvil cell for high-temperature optical and x-ray measurements.

- ▶ The Diacell® HeliosDAC is ideal for high-temperature and high pressure experiments, being able to reach over 1000°C and 100 GPa.
- ▶ This cell is suitable to both optical (numerical aperture of 0.42) and x-ray (2θ up to 25°) experiments.
- ▶ The Diacell® HeliosDAC employs an internal resistive gasket heater and a series of unique insulating stages to maintain the cell at a reasonable temperature even when operating at full power.
- ▶ Being gas membrane driven means that pressure within the HeliosDAC can be adjusted whilst at high temperatures.
- ▶ Maximum pressures of up to above 100 GPa may be obtained with the Diacell® HeliosDAC.
- ▶ The HeliosDAC_Plus is the version of this cell that employs Bohler-Almax anvils, enabling even larger x-ray apertures.

Technical Specifications:

Cell Material	Stainless Steel AISI 440C
Anvil Seat (support plate)	Tungsten Carbide
Pressure Mechanism	Gas membrane
Top Angle	X-ray: 50° Conical
Bottom Angle	X-ray: 50° Conical
DAC Diameter	56 mm
DAC Height	47 mm
Working Distance to Sample	16 mm

Specifications subject to change without prior notice.
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