

Products



Diacell® ChicagoDAC

RELATED PRODUCTS:

- easyLab® easyCell 30
- easyLab® PCell 30
- Diacell® CryoDAC PPMS
- Diacell® iGM Controller
- Optiprex Ruby Line
- Bohler µDriller

RELATED ACCESSORIES:

- Diacell ® ChicagoDAC insert
- Patterned/ Intelligent Diamond Anvils
- Gasket Blanks
- Ruby Powder
- Support Plates
- Gasket Indenter

Diacell® ChicagoDAC

Compact bellows-driven diamond anvil cell (DAC) for high pressure, low temperature transport measurements.

- ◆ The Diacell ® ChicagoDAC is an efficient bellows-driven and optimised for transport measurements in QD's PPMS ®;
- ◆ The cell has been developed in collaboration with the group of Prof. Rosenbaum, then at Chicago, now at Caltech;
- ◆ The Diacell ® ChicagoDAC is non-magnetic and provides in-situ pressure tuning and measurement via the bellows and fiber – coupled ruby fluorescence manometry. An optional insert is available to accommodate the gas coupling and necessary optics;
- ◆ When the Diacell ® ChicagoDAC is equipped with our patterned diamond anvils (4 probes) or our novel “intelligent” diamonds (8 probes), one can perform seamless transport measurements at extreme conditions;
- ◆ Other techniques are also enabled, such as magnetic susceptibility, fluorescence and Raman spectroscopy.

Technical Specifications:

Cell Material	Beryllium Copper Alloy
Anvil Support Plate	Single crystal sapphire
Pressure Mechanism	Gas Membrane
Maximum Pressure	20 GPa
Top/Bottom Angles	19° / 13°
DAC Diameter / Height	25 mm / 120 mm (incl. puck)
Working Distance to Sample	24.40 mm
Numerical Aperture	0.17

Specifications subject to change without prior notice.
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