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Diamond Anvil Cells (DACs) are powerful tools for high pressure research

Cooling system for DAC cell

Product Code: DCU-CY1

The DAC is embodied in e large copper block, attached to the cold tip of a low vibration closed cycle cryostat system providing a controlled low temperature vacuum environment, the vacuum chamber. The sample is positioned on the sample holder (DAC cell) in good thermal contact with and surrounded by the vacuum.
To change the sample, the cryostat must be warmed at room temperature, the vacuum released and the outer case and radiation shield removed.
A remote control for DAC is necessary to change the pressure inside the sample. The vacuum chamber provides cryogenic environments for optical measurements for DAC cell. The design combines the best optical access with the capability to operate in the temperature range 10 to 500 K. Benefits include a wide optical access for light collection measurements. Besides an optimized design provide an excellent optical access and a short space to permit to focalize beam with a objective 20mm WD.
The large acceptance angle makes them ideal for light collection measurements (for example Raman studies).

TECHNICAL DATA

CRYOSTAT TYPE	OXFORD Optistat CF-V
VESSEL ROOM	Aluminium and glass window
COLD UNIT	Copper flange and Indium
FIXED RADIATION SHIELD	Copper
MEMBRANE CONNECTION	1/16" capillary
ADDITIONAL DIODE SENSOR	Lakeshore type

HIGHLIGHT

- Remote control of pressure inside DAC
- No vibration

LOTO-eng Via G. Presciani, 50019 Sesto Fiorentino ITALY www.loto-eng.com info@loto-eng.com