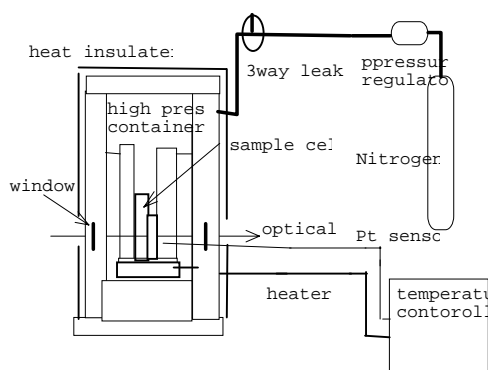


AN ACCESSORY FOR SAMPLING SOLUTION UNDER HIGH TEMPERATURE

Conformational changes induced by temperature are one of most common CD applications. Dealing with bigger maximum temperature range is about 100°C, i.e. the boiling point. Jasco recently arranged a simple accessory (TC-700) in which sample is kept under relatively high pressure (up to 10kg/cm²), allowing to work at quite high temperature even with aqueous solvents. This would allow structural measurements on thermophilic protein/polypeptides.



Unit fits std sample compartment and consists in an high pressure container with quartz windows where sample filled in a conventional sampling cell is placed. Pressure is generated by N₂ gas. Rectangular cells up to 10mm path can be used, temperature range is from ambient to 170°C.

Following picture shows spectra of std CSA sample at 170 e 50°C

