

CS-L

CRYOSTAT APPARATUS
FOR KLY SERIES AND MFK1-FA / A
KAPPABRIDGES

AGICO

ADVANCED GEOSCIENCE INSTRUMENTS COMPANY

Supplement for KLY5-A and MFK1-FA Kappabridges for measurements of low-temperature variations of magnetic susceptibility.

General Description

The **CS-L Low Temperature Cryostat Apparatus** is optional attachment for **KLY series** and **MFK1-FA/A** Kappabridges designed for measurement of the temperature variation of low-field magnetic susceptibility of minerals, rocks and synthetic materials in the temperature range from **-192°C to ambient temperature**. CS4 (or CS-3) apparatus is mandatory prerequisite for CS-L system.

The specimen is placed in a measuring vessel which is cooled inside the cryostat by liquid nitrogen and then heated spontaneously to a given temperature. The argon gas is needed for depleting the liquid nitrogen out of cryostat.

The quasi-continuous measurement process is fully automated, being controlled by the software **Su-fyte**. Data processing software **Cureval** serves for advanced analysis of thermomagnetic curves such as empty furnace measurement subtraction, Curie temperature estimation and separation of ferromagnetic and paramagnetic part of susceptibility.

CS-L Cryostat Apparatus Comprising

Cryostat

Temperature Sensor

Specimen Vessels

Pot and Funnel for Liquid Nitrogen

Argon Blow System

Measuring Software

Main Features

Measurement at low temperatures from -192°C

Cooled by liquid nitrogen

Estimation of ratio between ferromagnetic and paramagnetic part of susceptibility

Technical specifications

Nominal specimen volume: 0.25 cm³

Inner diameter of measuring vessel: 6 mm

Temperature range: -192°C - ambient temperature

Accuracy of temperature determination: ±2 °C

Sensitivity to susceptibility changes: 1×10^{-7} SI

Power requirements: 100 - 240 V, 50/60 Hz, 700 VA



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