ASC Scientific Impulse Magnetizer

Make: ASC Scientific, USA

Model: IM-10-30 Impulse Magnetizer

Description:

The instrument generates short duration magnetic fields within the sample coil, enabling a variety of high-field magnetic studies to be conducted on geologic samples without the need for a large electromagnet. The IM-10-30 is ideally suited for imparting IRM into a sample and anisotropy of IRM acquisition studies. It has interchangeable coils and is capable of generating fields in excess of 28K Gauss for full size paleomagnetic specimens and 50 K Gauss for smaller samples. Four different plug-in coils are available with the capability of accurately generating fields ranging from 30 Gauss to 50 KGauss. Each coil comes with sample holders for accurately positioning and aligning the sample during field exposure.

Principle:

The magnetic field is produced by discharge of energy from a capacitor bank through a coil surrounding the sample cavity. The capacitor bank is first charged to the desired voltage (corresponding to the desired field). It is then discharged through the coil very quickly using a high capacity SCR as a switch. Because very high current levels are involved, the coil and all circuitry are totally contained in a single case.

Coil	Field Range	Sample Cavity	Sample Holder
#1	30 - 600 Gauss	2.00"	1" cubes/cores
#2	0.5 - 11 KGauss	2.00"	1" cubes/cores
#3	1.5 - 27 KGauss	1.25"	1" cores; 7cc sample boxes
#4	3 - 50 KGauss	0.5"	7/16" x 3/4"" vials/cores

User Instructions:

1. Each requisition should be addressed to **Director, BSIP** for allotment of analysis date
2. Payment is to be made in advance through bank draft in favour of "**Director, BSIP, Lucknow**". Kindly visit our website for the updated rate-list
3. Data generated will be provided on CD or DVD
4. Sediment/Soil samples should be fully packed in 10 cc plastic bottles

Contact Us:

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Analysis cost: See analytical cost list as attached below