

Name of Machine	ASC Scientific Thermal Demagnetizer
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Make: ASC Scientific, USA	Model: TD48 High-capacity dual-chamber Thermal Specimen Demagnetizer
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SPECIFICATIONS

Absolute Temp. Accuracy:	10°C
Temp. Repeatability:	1°C
Max. Temp. Gradient:	10°C Total Over 16" Sample Region of Oven Chamber with Full Sample Load. 3°C Attainable with Partial Sample Load
DC Field in Heating Chamber:	Less than 25 nT (Gammas), When System is Oriented in East-West Direction
DC Field in Cooling Chamber:	Less Than 10 nT (Gammas), 2-5 nT Typical
Heating Time:	48 Specimens From 25°C to 600°C in 45 Minutes
Cooling Time:	48 Specimens From 600°C to 40°C in 25 Minutes
Power Requirements:	115 VAC, 30 AMPS; 230V operation with supplied step-down transformer
Size:	Oven Unit - 72" (183 cm) L x 16" (40,5 cm) W x 13" (33 cm) H Control Unit - 17" (43 cm) W x 15" (38 cm) D x 7" (18 cm) H

Description

The Model TD48 Thermal Demagnetizer features a large internal diameter oven and three row sample boat for heating up to 48 one-inch diameter or one-inch cubic geologic samples in a single batch. The oven and adjacent fan-assisted cooling zone are housed in a three layer seamless magnetic shield which permits cooling of one batch while a second batch is heating. The cooling chamber has two additional shields which limit the maximum internal field to less than 10 nT with the instrument oriented perpendicular to the earth's field. The oven has three independently controlled zones - a large sample zone and two small trimmer end zones - which minimize temperature gradients across the sample zone while keeping overall oven length to a minimum. The system was designed for long service life by incorporating features into the oven and sample boat that protect the internal oven wall from damage.

User Instructions

1. Each requisition should be addressed to XXXXXX for allotment of analysis date
2. Payment is to be made in advance through bank draft in favor 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

MEASUREMENT/ANALYSIS**I. Palaeomagnetic Measurements**

Thermal Demagnetization - Performed in progressive Thermal steps of 100, 150, 200, 250, 300, 400, 450, 500, 525, 580, 620, 700 °C respectively

Contact Person

In-Charge Dr. Binita Phartiyal: Mob. 9411856391
binita_phartiyal@bsip.res.in

Staff: Dr. Md. Arif: Mob. 9559096764
arif@bsip.res.in

Charges

S. No.	Measurements and Analysis	Instruments Used	Rates		
			Students @25% Discount	Govt. Organizations (University/ Institute)	Private Sector/Industry
1	Thermal Demagnetization (Thermal Demag.)	AGICO JR-6 Spinner Magnetometer, ASC Thermal Demagnetizer	Rs1500/-each specimen (includes all Thermal steps (max eight))	Rs. 2000/-each specimen (includes all Thermal steps (max eight))	Rs. 4000/- each specimen (includes all Thermal steps (max eight))
2	Sample Preparation	10cc Sample Bottles, Rock Saw Cutting Unit	Rs. 38/- each specimen	Rs. 50/- for each specimen	Rs. 100/- for each specimen

To be filled in by the user while submitting the form

Job No as ASE CF
Date of submission:

(Sample Information Form)

REQUISITION FORM

BIRBAL SAHNI INSTITUTE OF PALAEOSCIECES, LUCKNOW

53, University Road, Lucknow, Ph. 0522-2740008, 2740399

(ASE Central Facility)

Website: www.bsip.res.in, E mail: gcms.bsip@gmail.com

Geochemistry Lab

(Information to be filled in by the user)

Name: _____

Address: _____

Email and Mobile No.: _____

Category (In-house/sponsored/Govt. organization/private): _____

Number of samples: _____

Sl. No.	Sample ID	Type/Nature of Sample	Quantity	Year of collection	Lat./Long.	Remarks, if any
1						
2						
3						
4						
5						

To be filled in by the user while submitting the form

Job No as ASE CF
Date of submission:

SAMPLE REQUISITION FORM
BIRBAL SAHNI INSTITUTE OF PALAEOSCIECES, LUCKNOW
53, University Road, Lucknow, Ph. 0522-2740008, 2740399
(ASE Central Facility)
Website: www.bsip.res.in, E mail: gcms.bsip@gmail.com
Geochemistry Lab

(Information to be filled in by the user)

Name: _____

Address: _____

Email and Mobile No.: _____

Category (Inhouse/inhouse sponsored/Govt. organization/private): _____

Number of samples: _____

Nature of samples (with details): _____

Scientific Objective of this study: _____

Additional information, if any: _____

Location (Lat & Long): _____

Exposed Section/Trench/Core/Others: _____

(For office use only)

Lab Reference No.:

R.P.C.C./ Registrar : Kindly raise the bill for the above

Total Charges:

Taxes:

Grand Total: