(Quantity:01)

Specification of Equipment for Fluid Inclusion Studies

Feature	Description
1 1 for about	Conduction from electrical resistance heater in silver block
1.1	from below and ~7 mm from sample, via sapphire window.
Sample heating mechanism for below	Oppose N ₂ cooling with electrical heater as above.
ambient	
Sample cooling mechanism for below	Conduction, from annular circulation of pre-cooled N2 in
	metal ring below metal block, ~7 mm from sample, via
ambient	sapphire window.
Town and use range	-180° C to +600° C
Temperature range	0.1°C (-180° C to + 200° C)
Temperature resolution	1° C (+200° C to + 600° C)
	Platinum resistance thermometer embedded silver block ~3
Temperature sensor and location	mm from sample.
Temperature control	Fully automatic and Programmable temperature set point
	stable to better than 0.5 °C
	stable to better than 0.0 0
Heating cooling rates	27 linear heating cooling rates
	(0.1°- 0.9° C / min; 1° – 9° C/min; 10° - 90° C / min)
Fast cooling	0°C to - 160° C in '40 seconds
	(using pre-chilled gaseous N ₂)
Pre-set limits .	Any value between - 180° C and + 600° C
Temperature 'HOLD' facility	Yes
Thermal stability	± 0.1° C (full range)
Thermal response	Fast
Thermal gradients	Low
Condensation at low temperature	No problem
	Rapid cycling between heating and cooling no adjustments
East of operation	20 mm diameter: 1.5 mm thickness
Max. sample size	2.2 mm diameter (for version using X-Y micromanipulators
Viewing area	22 mm diameter
Maximum Sample area visible	~10 min.
Time for heating to 250 °C	10 111111
Time for heating to	4 min.
450 °C	6 min.
600 °C	
Time to change sample at room temp.	<1 min.
Time to reach -50 °C	~1.5 min. ~2.25 min. but can be achieved in seconds if pressurized
Time to reach -150 °C	₩
	LN ₂ is used.
Printer unit	Yes
Recorded output	Yes Yes
Calibration unit	Checks internal response of sensor and allows user to
Cambration and	obtain true calibration temperatures

Feature	Description
Optical requirements	Most makes; minimum stage to lens
(i) Microscope	clearance > 25 mm
(ii) Object	Long working distance> 6 mm; no
()	correction
(iii) Substage	Long working distance condenser lens essential; must be
illumination	capable of focusing ≥ 15 mm above level of microscope
9	stage
(iv) Protection for Objectives	None
Consumable	Liquid N ₂ ; Oxygen-free N ₂ gas
Accessories	All essential accessories
manuals	Installation, Operational and maintenance manual are
	required
Make	Linkam or equivalent
Warranty	One year
	Two weeks
Training	Along with fast consuming spares deemed necessary by
Spares	supplier.

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