

RAPID Heating & Cooling MultiCentre for Thermal Stimulated Desorption and other experiments

The RAPID variant of our market-proven MultiCentre range of analytical stages provides rapid heating to 1200°C and rapid cooling to -196°C for Thermal Stimulated Desorption (TSD) and other experiments.

The design utilises a re-entrant LN₂ cryostat with cryogenic compatible feedthroughs mounted in the end. There are two thermocouple feedthroughs for temperature measurement and two large diameter copper feedthroughs to carry the heater current from which a sample heater tape is mounted.

The cryostat is mounted from a Differentially Pumped Rotary Feedthrough (DPRF) so that primary rotation is accommodated.

The sample, which is mounted directly to the heater tape, easily reaches 1200°C in a matter of seconds.

As the feedthroughs carrying the heater current are 4mm diameter copper pins and pass directly through the LN₂ inside the cryostat, that self-same sample can also be cooled very rapidly to LN₂ temperatures (see Fig 1)

In a pre-cooled cryostat, a sample can be heated from -196°C to >1200°C in ~60s and then be cooled back down to -196°C in a further 100s.

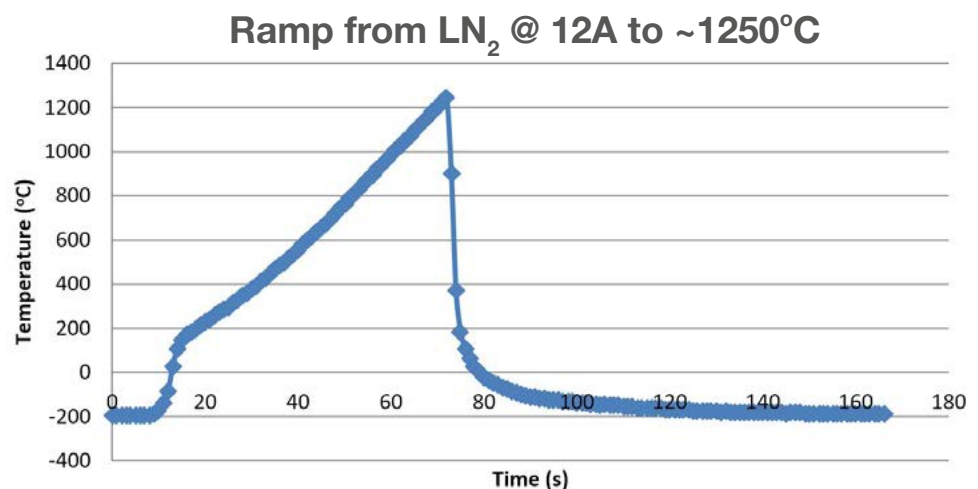


Figure 1

If you would like more details on the RAPID MultiCentre or to discuss your application in more detail please contact us at sales@uhvdesign.com.

FOR MORE INFORMATION

Please contact us via sales@uhvdesign.com or telephone +44(0)1323 811188 to discuss this application in more detail.

For more information on our complete range of UHV manipulation products please visit our website: www.uhvdesign.com which includes our unique product configuration tool that enables all of our standard products to be viewed, configured and emailed directly as a 3D CAD file.

+ [Click here to learn how to use the product configuration tool](#)



Available products: 1



TTX40-100-25-H

ORDERNO Order number	TTX40-100-25-H		
INFO Info	-		
TFS Travelling flange size	CF40		
FFS Fixed flange size	CF100		
AO Actuation options	Manual thimble		
S Axial stroke	25		
POS Position	0	mm	
POSX Position	0	mm	
POSY Position	0	mm	
ROT Rotation	0	°	
E Encoder	NO		
W Weight	11.8	kg	

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3D

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