

MICROSTAT MO

IMPORTANT SAFETY INFORMATION SHEET

Version 1.0



All users of the Microstat MO must read the Oxford Instruments Microstat MO system manual and the booklet Safety Matters that accompanies the system.

Cooling the system



All the service ports should be sealed when the system is cold, to prevent air from entering the system



Ensure the pressure relief valve on the sample access window support tube is not obstructed



Appropriate personal protective equipment should be used when handling cryogenics, see Safety Matters.

Sample Mounting



Before sample mounting, ensure the magnet has been run down to zero field and the sample heat exchanger is at ~295K. To vent the sample space use dry Nitrogen gas to prevent blockages.

Using the Temperature Controller



Check that the mains voltage selector on the temperature controller is correct for your local power supply,



The ITC temperature limit should be set at 305K. For systems supplied with an ITC this is set at the factory. For systems supplied without an ITC consult section 7.2 of the ITC 503 operators handbook.

Running the Magnet



Check the system manual to ensure any ferromagnetic materials present in the working environment are far enough away from the magnet centre field.



Any tools used in preparing the system should be removed prior to running the magnet.



Before running the magnet, ensure that the earth lead is bolted to the system and the power supply. Check that the mains voltage selector on the rear panel is correct for your local power supply,



The current supplied to the magnet must not exceed 0.5A above that required for 5T. For systems supplied with an IPS120 this is set at the factory. For systems without an IPS120 consult section 11.10 of the IPS120 operators handbook.



**Running magnet with Hx temps >100K.
For heat exchanger temperatures of >100K the magnet must be run only after the heat exchanger has reached the set temperature. Failure to do this may result in magnet quench.**

Further Assistance

First read the manuals supplied with the system. If you require extra assistance, to obtain technical support you will need to quote your Oxford Instruments order number. Please contact your nearest Customer Support centre as follows:

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