

Next Generation Freeze Drying Microscopy

Biopharma Group's Lyostat series of freeze drying microscopes have been popular for many years due to their speed and accuracy in returning usable data. The latest features available with the new Lyostat5 include upgraded hardware and software and many options to offer enhanced reliability and flexibility, whilst continuing to improve the functionality Lyostat has always offered



Upgrades

- New T95 series controller, featuring better connectivity and precision control
- New liquid nitrogen pump enabling precise linear cooling rates
- Power ratings allow for use with any voltage and frequency
- New optional 'LinkPad' touch-screen unit to monitor in-situ performance levels and allow easy checking of firmware versions
- Upgradable firmware via USB link
- Vacuum Control module replaced with PC style card minimising the number of power sockets required
- Increased data sampling rates and resolution to improve data accuracy

Imaging Station Upgrade

- Fewer lenses than compound microscope, providing clearer images
- Long working distance condenser
- LED light source for 60,000 hours of illumination
- Kohler illumination

Digital Camera & Software Upgrade

- 3.2MP Digital Camera
- Capture up to 80GB data
- Compress gallery images into various picture formats or movies with variable compression code and playback frame rate

21CFR Part 11 Compliance Option

- Enhanced internal evaluation and quality control
- Reduced data entry error with automated checks

To request more details or discuss your requirements further, please contact our specialists at

www.biopharmagroupcdmo.com



UPGRADES & SERVICES

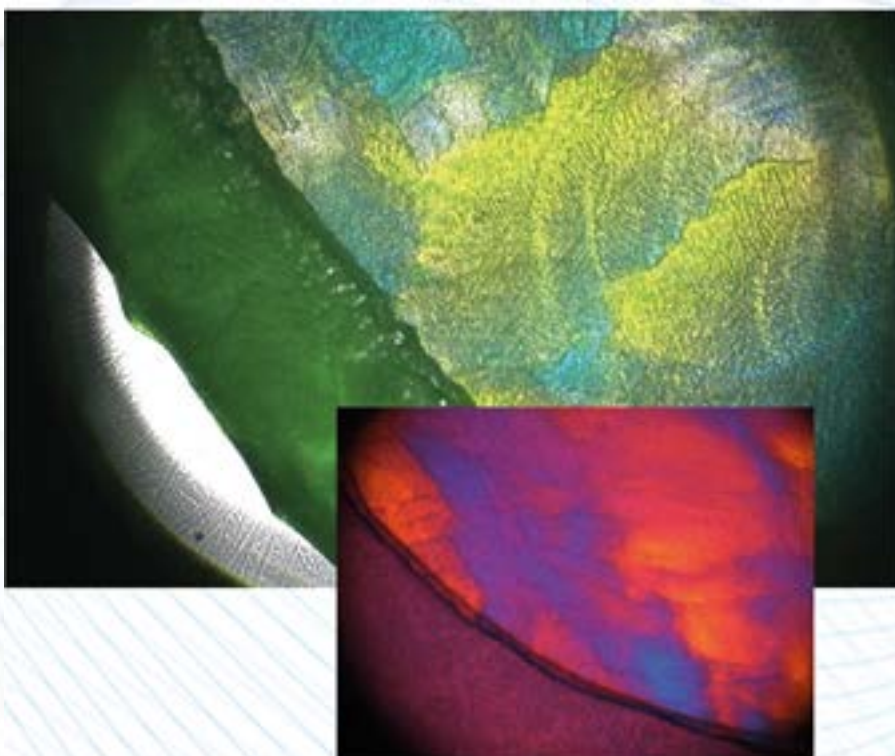
For Lyostat Freeze Drying Microscope

Analyser Collar & Tint Plate Assembly

- Works with the imaging station
- View their samples with polarised light and a 1st order red filter to enable more in-depth analysis of the crystal structures in frozen samples
- False colour enables even easier determination of critical temperatures
- Analysis without the polarising setup also can be undertaken whenever required

Vacuum Control System

- MV196 motorised vacuum control system featuring software controlled valve
- Enables specific pressure selection



Other Instrument Services

Maintenance & Re-qualification

In order to ensure continued smooth and precise operation of your Lyostat we recommend that maintenance is carried out every year. Re-qualification can also be carried out to provide evidence of the accuracy of the data.

Installation and Training

Installation and training packages are available for new and existing systems. The two-day service includes testing the equipment to ensure it is performing to specifications and explanation and demonstration of use. Unlike other suppliers, all our installation and training is carried out by scientists with practical, firsthand experience of the systems and interpretation of data. Re-training is especially recommended when purchasing an upgrade or new accessories.

R&D Consultancy & Analytical Lab Services

Biopharma Group's R&D consultancy and lab services division, has over twenty five years' experience in freeze drying research and development, working with customers from all over the world. Our expertise includes characterisation services, formulation development, cycle development and post process analysis. We have developed efficient and robust cycles for a wide variety of products including foods, small molecules, diagnostic reagents and biological materials such as bacteria, viruses and blood products.



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