

LS60 Freeze dryer – an overview

The LYOSCIENCE range of freeze dryers provides an extended choice of process and control options for **reliable and reproducible freeze drying** of a wide range of sample types.

Manufactured and fully supported by knowledgeable and experienced engineers in the UK, the new *LSG60*, pictured below, uses the most up-to-date technology in vacuum, refrigeration and control, giving **unrivalled reliability** and reproducibility in the freeze-drying process. A full system mimic on the touch screen display provides a user friendly interface giving a clear indication of system status.

Suitable for both vial and bulk samples, the LSG60 is easily adaptable for either **laboratory or small-scale production**. Exhibiting all the features of the smaller LS dryers in the range, but on a larger scale, an additional safety feature automatically diverts the condenser refrigeration power to 'crash' cool the product if the shelf cooling system fails. This facility protects the product, potentially averting significant losses.

FEATURES

Fully automated, **touch screen control**

Nine product shelves offering large shelf area (1.7 m²)

Stoppering facility

Controllable shelf temperatures between **-60°C and + 60 °C**.

High capacity (15kg)

Data logging /analysis

Reproducible process profiles

Manufactured and fully supported in the UK

Option of **GAMP4 and CFR21 pt II** certification

APPLICATIONS

Pharmaceutical

Food & Beverage

Biological Specimens

Delicate Materials

The *LSG60* comes complete with **nine** product temperature shelves, which can be controlled between **-60°C and + 60 °C**, with an accuracy of better than ± 1 °C. Based around a large drying chamber mounted alongside a refrigerated chamber, the integral refrigerated shelves can be moved up and down via an hydraulically operated ram for **stoppering** purposes.

Freezing, primary and secondary drying, end point determination, backfill and stoppering sequences are all controlled by a central processor unit, allowing complex pressure/temperature profiles to be controlled accurately and reproducibly **without operator intervention**. In excess of **50 profiles** can be stored and retrieved as required.



For further information,
Telephone +44 (0) 1179 109990
or email: enquiries@mechatechsystems.co.uk