



# Software Options for the AdVantage Pro, Genesis & Ultra Freeze Dryers

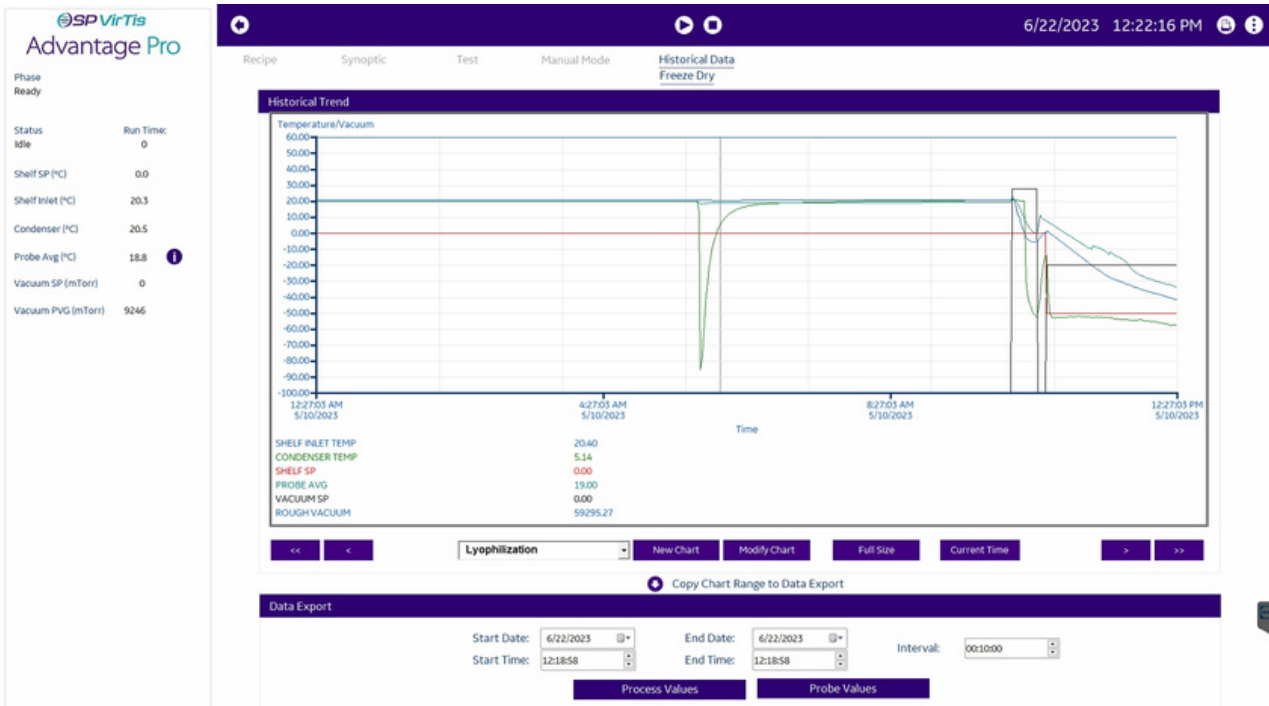
Exclusively available from Biopharma Group  
across the UK, Ireland & France.

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# ADVANTAGE PRO FREEZE DRYER TRENDING SOFTWARE

Supplied pre-loaded on a dedicated laptop, offering plug and play ethernet connectivity to your AdVantage Pro freeze drying unit when purchased with an AdVantage bench top unit (retrofit options are available). This iFIX-based software package provides graphics and interactions complimenting those found in the Merlin and LyoS series of Pilot scale control and trending software, simplifying upscaling from bench top processes.



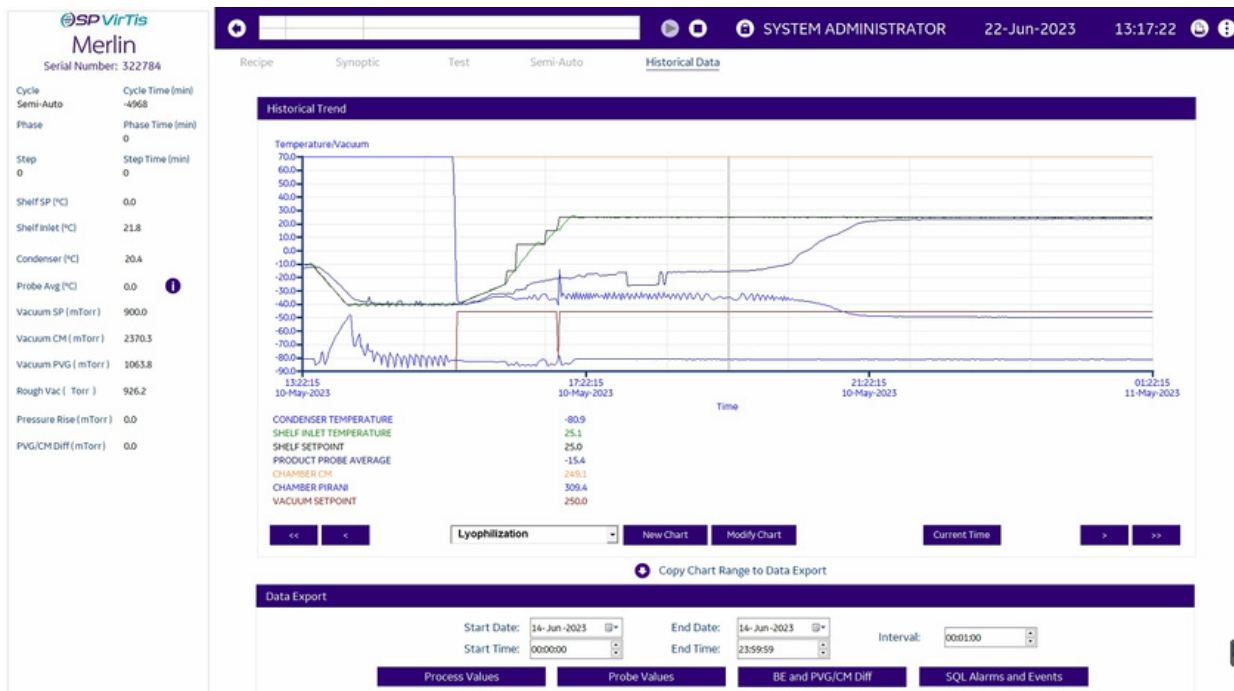
## What's included: -

- Recipe manager with 16 recipes
- Continuous historical data trending
- Proficy Historian data archiving
- Data export capability

# MERLIN CONTROL SYSTEM AND PC CONTROLS INTERFACE FOR GENESIS AND ULTRA PILOT FREEZE DRYERS

Utilising a Siemens TP700 touchscreen interface, the Merlin controller provides full process automation including recipe management and alarms. Combining the Merlin controller with easy to use iFIX-based PC controls software (purchased as an add-on), enables interfacing with the touchscreen controller. Additionally, it provides an exceptionally user-friendly recipe manager, secure cycle data logging and export capability and a graphical display of recorded data/historical data trending. Selecting the

capacitance manometer pressure gauge option for Merlin will provide the CM & PRCM, differential automated process control software which automatically compares the Pirani gauge and capacitance manometer pressure values to determine completion of primary drying and only advances to the next step of the freeze drying cycle if the differential condition is met.



**What's included: -**

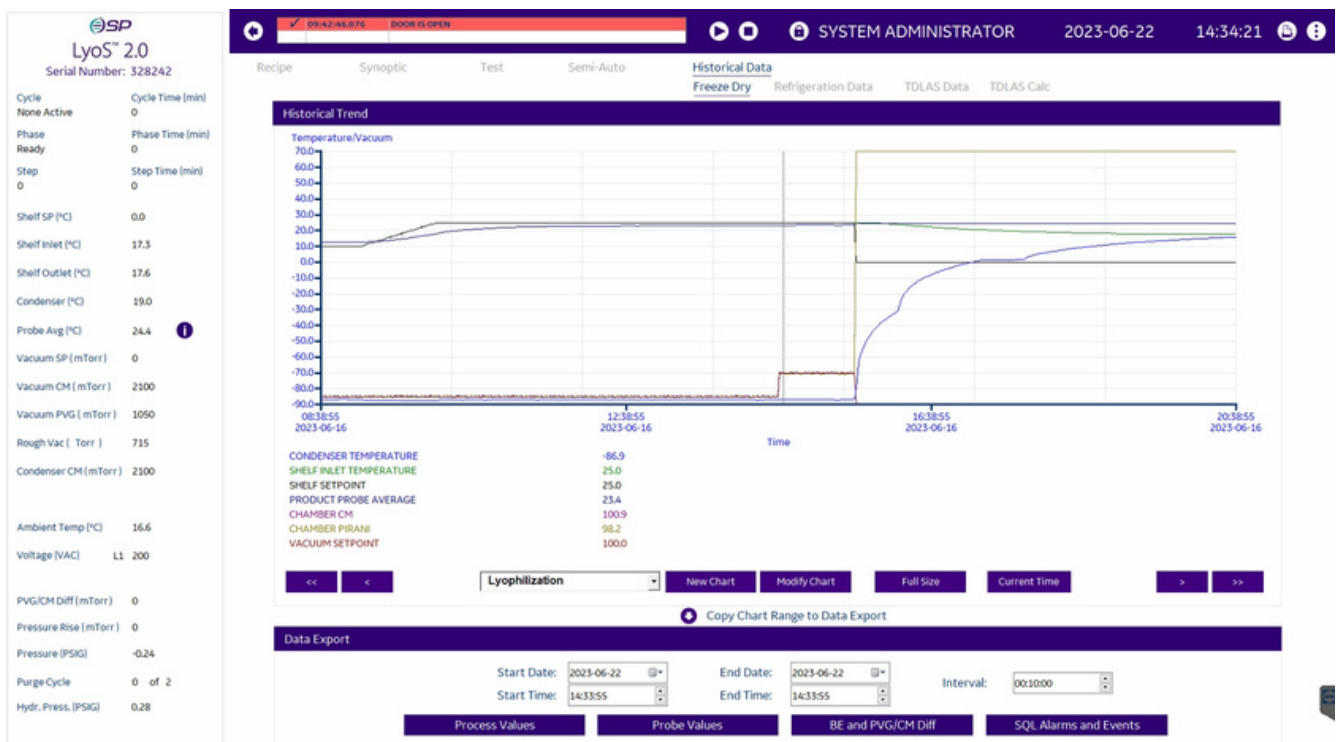
- GE Proficy iFix HMI software pre-installed on a PC
- Graphical synoptic display with real-time system status
- Continuous historical data trending
- Quick data export capability, customizable for date/ time range
- Recipe manager
- Semi-automatic and fully automatic modes of operation
- Automatic Leak Test and Function Test
- Proficy Historian for secured historical data archiving
- Secure ID/Password login with three permissioned user groups (guest, operator, supervisor)
- Data export capability



# LyoS 2.0 FOR GENESIS & ULTRA

The LyoS™ 2.0 control system packs the highest level of process control and flexibility into a software package that is multi-functional and easy to use.

The LyoS™ 2.0 control system software for ATS VirTis Genesis and Ultra freeze dryers has features designed to help meet your process needs. These features include drying endpoint tools like Pirani/capacitance manometer comparison, automatic pressure rise testing, automatic backfill testing, and stoppering capability. Available optional features include automatic batch reports, 21 CFR Part 11 compliance capabilities, and Uninterruptible Power Supply (UPS).



## What's included: -

- GE Proficy® iFix HMI software
- Graphical synoptic display with real-time system status
- Full system alarming
- Historical data trending, with quick export capability
- Power outage protection including product recovery routines
- Comprehensive programming of unlimited custom recipes
- Semi-automatic and fully automatic modes of operation
- Assortment of configurable options