

Tender for Lyophiliser

Required Key Features

- Bench-top laboratory-scale instrument, but may consider trolley-mounted
- Temperature controlled shelves and variable ramping speeds
- Internal dimensions sufficient to accommodate between 25 and 50 standard microplates sitting on the shelves
- Operational data collection (via PC) allowing for future hassle free scale-up. i.e. we must be able to transfer any protocol from the new instrument to a pilot plant scale instrument
- Flexible cycle control allowing full control of vacuum strength and shelf temperatures over time
- Programming and operation should be clear and logical
- Our initial application does not require either very large condenser capacities or the very lowest temperatures that would be required for organic solvent condensation. We will be using small aqueous samples predominantly (e.g. 20 uL per well of 25 x 384-well microplates)
- Vacuum pump with exhaust filter included
- Simple, robust chamber design for cleaning and maintenance

Additional Desirable Features

- An internal framework that has been optimised for freeze-drying microplates (i.e. providing close contact of the bottom of all the wells with the temperature-controlled shelves)
- Vial stoppering system
- Ability to vent the chamber with inert / dry gas
- Internal probes for measuring sample temperature
- Servicing, extended warranties & training included
- Larger condenser capacity and lower temperatures for future applications