

Miniature and bench-scale Multi-Bioreactor systems



Left: **XPLORER** using ~ 100ml vessels for parallel operation (~ W 40cm x H 80cm x D 60cm)

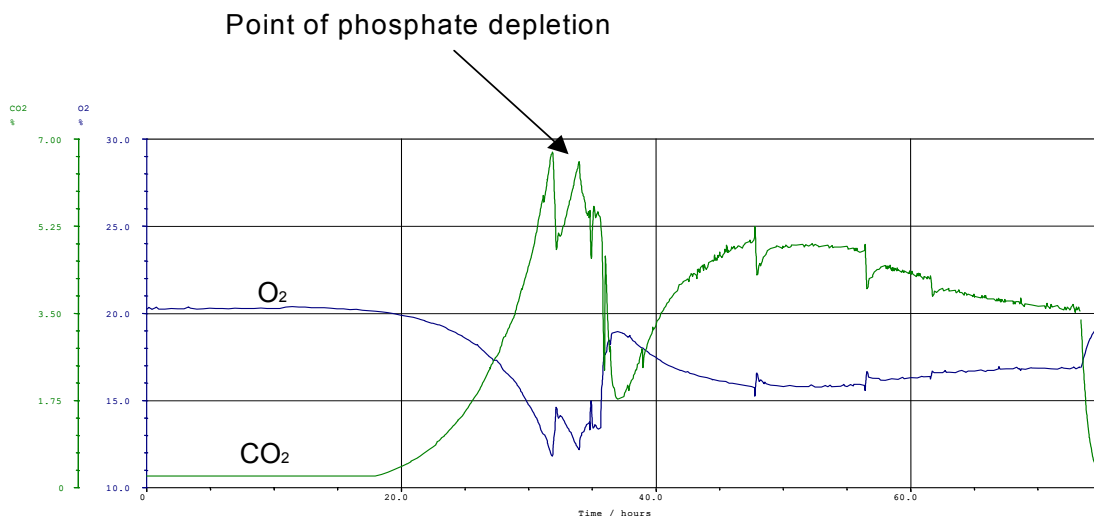
Below: **XPERT** bench-scale multi-bioreactor system (~ W 96cm x H 60cm x D 50cm)



- **Respiratory Quotient, Carbon Evolution Rate, Oxygen Uptake Rate, Oxygen Transfer Rate and Oxygen Transfer Coefficient** in real-time. All calculations are carried out automatically by winBIO software.
- The off-gas analyser is fully integrated with the BioXplore technology
- A simple two-point calibration allows for routine calibration of the Oxygen and Carbon Dioxide sensors
- The robust and field tested technology is an economic alternative to more expensive detectors, e.g. mass-spectroscopy

Off-Watch

Is the combination of an Off-gas analyser and the state-of-the-art winBIO monitoring software. Off-Watch will monitor the **Oxygen and Carbon Dioxide levels in the exhaust gas**; also this data is combined with data coming from the Dissolved Oxygen Probe, and winBIO software will calculate: **Respiratory Quotient, Carbon Evolution Rate, Oxygen Uptake Rate, Oxygen Transfer Rate and Oxygen Transfer Coefficient** in real-time. These parameters will allow you to properly understand your bio-system.



BioXplore off-gas analyser technology used to study a fermentation producing a recombinant antibody fragment (courtesy of J Bonham-Carter, Magellan Instruments and Dominic Reeks, Celltech).

BIOXPLORE

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