

QIC BioStream



QIC BioStream - mobile cart

QIC BioStream-C - bench-top

Key Features

- ▶ Hiden 3F ultra-stable mass spectrometer
- ▶ Proteus 20, 40 or 80-way multi-port switching options
- ▶ Rapid port switching
- ▶ Low flow configuration - from 4 ml/min
- ▶ High flow configuration - to 10 L/min
- ▶ Quantitative gas analysis of up to 32 species
- ▶ Dissolved species analysis
- ▶ OPC Server technology - for process control
- ▶ OUR - Oxygen Uptake Rate
- ▶ CER - CO₂ Evolution Rate
- ▶ RQ - Respiratory Quotient



Proteus - multi-stream selector

Applications

- ▶ Fermentation process analysis
- ▶ Synthetic process analysis
- ▶ Biogas production monitoring
- ▶ Spatially resolved MS
- ▶ Mammalian cell culture analysis
- ▶ Reaction profile studies

QIC BioStream Technical Specifications

Mass Range

- ▶ 200 or 300 amu

Operating Modes

- ▶ Process trend analysis
- ▶ Bar Scan
- ▶ Profile Scan

Mass Spectrometer

- ▶ Precision Triple Filter Quadrupole - 200 amu is standard

Inlet

- ▶ 20, 40 or 80-way multiplexed inlet multiple stream sampling

Data Acquisition & Control

- ▶ Windows 7/8/10 compatible with Ethernet, USB and serial connections

Dimensions

- ▶ QIC BioStream System 1050mm x 550mm x 1260mm
- ▶ QIC BioStream-C bench-top 530mm x 535mm x 936mm

Fermenter sampling

A typical system setup for sampling from multiple fermenters, configured with sample conditioning components, sample lines and flow control valves to accommodate reactors with flows from 100ml/min up to > 10L/min.

