



FLOWNAMICS[®]
Your Bioprocess Sampling Solution

Autosampling Solution For Cedex[®] Bio HT Bioprocess Analyzers



Automated On-Line Analysis

The Flownamics Seg-Flow® S₃ coupled with the Cedex® Bio HT Bioprocess Analyzer provides automated, on-line analytical solutions for advanced bioprocess culture monitoring. The Seg-Flow samples from 1 to 8 vessels/process streams and delivers each sample to the Cedex® Bio HT, or up to 4 analyzers. The Seg-Flow system acquires and processes the Cedex® Bio HT data to provide real-time analysis for multiple parameters and culture systems, and provides feed control options for bioprocess cultures. The Seg-Flow's OPC technology provides seamless integration of the data into any OPC-enabled SCADA or bioprocess management system for enhanced bioprocess monitoring and control. The Cedex® Bio HT Systems, built on Roche technology and expertise, are designed and developed to deliver the testing accuracy, system reliability and operational efficiency needed for the biomanufacturing process.

Seg-Flow Features

Versatility

- User-defined sample size (250 µL to 50 ml), rapid and accurate sampling
- Sample from 1 to 8 vessels (streams) at a time
- Withdraw cell-free and/or cell-containing samples
- 8 analog inputs, 21 analog outputs, 3 RS-232 ports, TCP/IP

Internal Web Server

- FlowWeb™ controls system internally
- Log data and information for each vessel or stream
- View and control from any PC or smart phone

Low Maintenance and Operating Cost

- Single-use fluid path from vessel to analyzer

Small Footprint

- 11"W x 12 1/2"D x 10 1/4"H
- (28.0W x 32.0D x 26.0H cm)

Simple Setup, Interface and Startup

Patented Segmented On-line Sampling Technology

- Provides rapid and accurate sampling

Data Management

- Seamless data integration to various bioprocess management systems via OPC

Scale-independent Technology

- Lab, pilot and commercial processes

Cedex® Bio HT Bioprocess Analyzer Features

Minimal Hands-On Time

- Automated Daily Maintenance
- Pre and post dilution Capability
- Long Calibration Curve stability

System Flexibility

- Single Analyzer for multiple parameters and culture systems
- Flexible test Selection (single or multiple assays per sample)
- Expandable menu - simple loading of barcoded reagents

Data Quality

- Reliable photometric technology
- High accuracy and precision
- Broad dynamic range and sensitivity

