

Preparation, Separation, Filtration & Monitoring Products



Common Control Platform® (CCP®) Software

A software platform that controls bioprocessing operations and securely manages data

One software platform across our fully-automated systems

From bioreaction to chromatography and tangential flow filtration, CCP[®] software can provide one familiar interface to simplify software management and reduce learning curves from development to large-scale manufacturing processes.

Easy process monitoring and control

Recipe driven automation eliminates manual operation, reduces process variability and minimizes risk of errors. Create process operations using the recipe editor, monitor the process in the home screen, and create reports for the batch using the configurable report generator.

Ensure regulatory compliance

The software is designed to operate in cGMP facilities for clinical and commercial production of therapeutic products, is developed in line with GAMP®5 recommendations for automation software and fulfills FDA guideline 21 CFR Part 11 requirements for electronic records and signatures, and includes an accessible audit trail for verification.





Automated Process Monitoring and Control

Recipe Editor

The CCP[®] software allows for both manual and automatic operation of any action required for precise process management. During automatic operation, the software provides full equipment control and operation using pre-defined recipes reducing the risks of manual operation and process variabilities – operators can utilize provided base recipes or define their own recipes.

One-click recipe launch

Allows frequently used recipes to be run quickly.

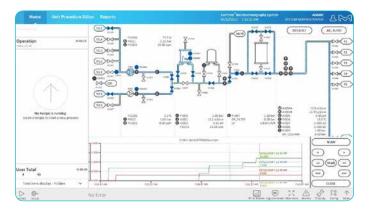
Offline recipe editor

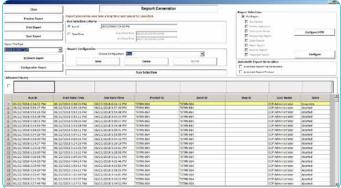
Allows process managers to work on recipes away from the equipment, such as at the comfort of an office desk. Recipes created can then be transferred to the system via a network connection or USB.

Report Generator

Easily generate comprehensive reports using the report generator to combine all necessary batch data into a single report file that can be printed, filtered and exported as different file formats.

- Reports can be manually generated at any time or automatically generated immediately following the conclusion of a batch run.
- Configure and save report templates for similar and repeated batch runs.
- Height Equivalent to a Theoretical Plate (HETP) calculations can be automatically done for chromatography.





Custom Network Integration

Optionally integrate the system with your network to allow the system to access data from your plant control systems. Utilizing this ability will allow the data collected by the CCP[®] software to be centrally stored, backed up and restored. Network integration also enables security synchronization to automatically coordinate user accounts with the networked plant control system for faster, simpler user account control and editing.

General features:

- Process status visible
- Process download and independent execution from robust PLC
- Active flow path control and display
- Alarms configurable for all necessary parameters
- Data and audit trail
- Component calibration
- Procedures to combine and sequence multiple recipes

Bioreactor specific features:

• Cascade Control loops

Chromatography specific features:

- Peak detection
- Gradient (Linear & Step)
- HETP

Filtration specific features:

• Average trans- membrane pressure

Other Benefits

Real-time and historical trends

Dynamic trend analysis enables multiple trend visualization and the ability to zoom in or out on any area of interest. Reusable trend templates can be configured for important groups of variables.

Remote viewing

Monitor process runs without physically being in front of the system.

Alarm

Configure the alarm settings to your specific critical and non-critical setpoints. A delay timer helps to manage the alarm sensitivity to minor fluctuations.

umps	Pre-Column	Column	Post-Column	Digital	Network	Signal	
Pi001 1.00 tw OFF CM		FIC001 0.00 Lpm P001 Flow	017 (01)		FLC001 ON P001 Control Variable		
5.00	bar 2 s		22.00 Lpm	2.5			
4.50	bar 2 s		20-00 tpm	2.5	8 - 4 i		
0.00	bar 2 s		0.10 Lpm	2 s			
1.00	bar 2 s		0.00 i.pm	2.5			
Scaling		>	Scaling	>			
			'â	÷			
				DSE			

Specifications

Multi-language Support								
English	German	Spanish	Japanese					
French	Italian	Chinese	Korean					
Software								
Security	Linked to Windows® operating system							
	Several areas of secured access							
	Configurable user access group levels (4 pre-configured)							
Operating System	Windows® 10 IoT enterprise							
Base control platform	Intellution iFix							
Data acquisition	Stored in read-only database							
Hardware								
PLC	Allen Bradley; Ethernet, USB; Device net I/O architecture							
PC	Advantech							
Regulatory								
Data	Fullfills FDA 21 CFR Part 11 requirements for electronic records and signatures							
Manufacturing & Development	Developed in-line with GAMP [®] 5 recommendations							

Related Products

CoPrime® Biochromatography Systems

CoPrime[®] Biochromatography Systems are fully automated systems designed for optimum separation and purification of monoclonal antibodies, vaccines, plasma and therapeutic proteins at various scales.

Mobius[®] FlexReady Solution with Smart Flexware[®] Assemblies for Chromatography and TFF

Mobius[®] FlexReady Solutions with single-use Smart Flexware[®] Assemblies for chromatography and tangential flow filtration (TFF) combine optimal operational flexibility with easy handling, supporting multi-unit operation as well as, multi-product and multi-scale production with the highest consistency.

Mobius® Single-use Bioreactors

Mobius[®] Single-use Bioreactors are a scalable portfolio of stirred tank bioreactors that provide flexibility by configuring software, hardware, and single-use assemblies for use in suspension and adherent cell culture applications.

Cogent[®] Process-Scale Tangential Flow Filtration System

The fully automated Cogent[®] TFF system is designed to separate and purify monoclonal antibodies, vaccines, plasma, and therapeutic proteins at various scales.



CoPrime®

Mobius[®] FlexReady Solutions

Mobius[®] Bioreactor

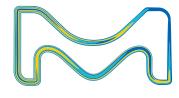
Cogent[®] TFF

To place an order or receive technical assistance

Please visit MerckMillipore.com/contactPS

For additional information, please visit MerckMillipore.com

Merck KGaA Frankfurter Strasse 250 64293 Darmstadt, Germany



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