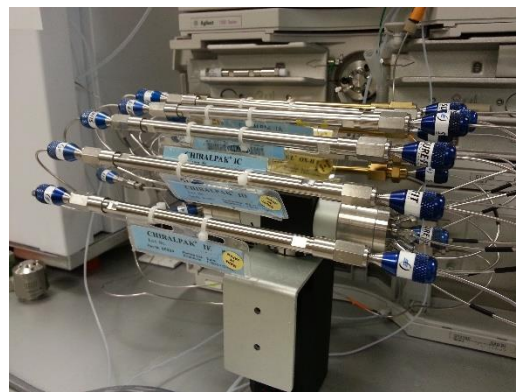
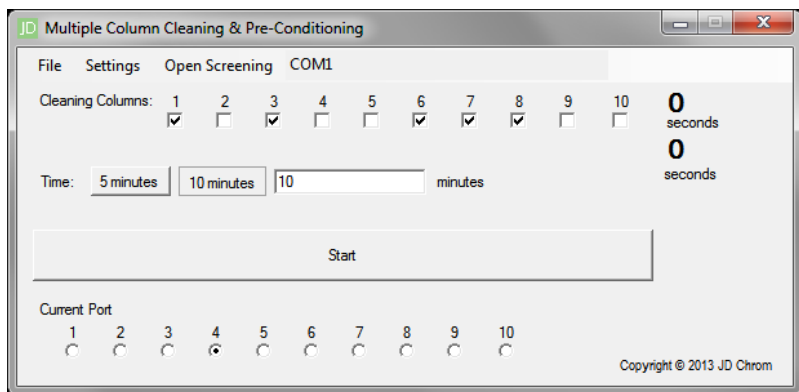


MCCP Program (Multiple Column Cleaning & Pre-Conditioning) Copyright 2013



ITEM DESCRIPTION

Included in the MCCPS System, the MCCP Program is integral to Phase 1 (Cleaning & Pre-Conditioning) of the MCCPS System's specialized 2-Phase Method Development Process. The streamlined user interface provides a fast, easy, and intuitive way to set up a cleaning & pre-conditioning process for upwards of 10 columns.

KEY FEATURES

- Automated Column Cycling/Selection
- Resource Savings via Specialization
 - Time, Samples, Solvents
- Simple & Intuitive User Interface
- Easy Column Selection via MCCP Program UI
- Time Display
 - Current Column & Total Run Time

MCCP PROGRAM'S ROLE IN SPECIALIZED 2-PHASE METHOD DEVELOPMENT

To illustrate, let us assume the following in this example: 10 unique columns; 5min/column Cleaning & Pre-Conditioning Method; 20min/column Screening Method (injection); Let D = Distraction Cost (for user to put down everything & return to the HPLC System). Also note a common practice of injecting a sample 3x to achieve: (1) column equilibration (2) sample injection (3) injection confirmation.

Conventional Method Development

Time	Task
2	Column Setup
63	Sample Analysis
	1 Configure Method
	2 System Startup (reaching method parameters)
	20 Injection - C&P
	20 Injection - Analysis
	20 Injection - Analysis Confirmation
1	Column Removal
D	Distraction Cost
66+D	Column Total
	x(10)
	FINAL TOTAL
	660min+10D = 11hrs + 10(Distraction Cost)

MCCPS System Method Development

Time	Task
20	Column Setup
	2min x 10columns
53+D	Column Cleaning & Pre-Conditioning
	1 Configure C&P Run
	2 System Startup
	50 Specialized C&P (5min x 10columns)
	D Distraction Cost
203+D	Column Screening
	1 Configure Screening Run
	2 System Startup
	200 Specialized Screening (20min x 10columns)
	D Distraction Cost
276+2D	Total
	FINAL TOTAL
	276min+2D = 4hrs 36min + 2(Distraction Cost)

Total Time Saved in PHASE-1: 3 hours and 27 minutes & 10 times fewer Distraction Costs

260 minutes & 10 Distraction Costs VS 53 minutes & 1 Distraction Cost