



Intelligent IC: Advanced control for Thermo Scientific Dionex IC systems

Thermo Scientific Chromeleon 7 Chromatography Data System

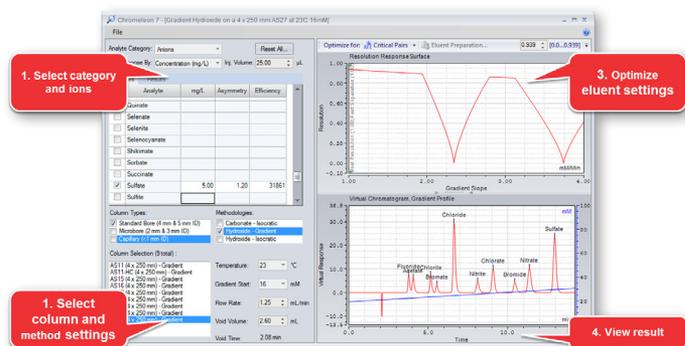
Thermo Scientific™ Chromeleon™ Chromatography Data System (CDS) is the only CDS to offer complete control of all current and most legacy Thermo Scientific™ Dionex™ Ion Chromatography (IC) instruments, with unique, smart features that deliver maximum ease of use, productivity and reliability.

Ease of use

Virtual column separation simulator

For fast, easy method development, method optimization and column selection; this simulation tool will predict retention data and chromatograms for various anion, cation and carbohydrate applications.

- Visualize and manipulate resulting chromatograms based on component, eluent and column selection
- Save time, reduce labor, lower consumable use, and decrease instrument wear-and-tear





2016-03-01 - CS14 4µm 2 mm - 6 Cation Test Standard

Run Finished

#	CD	Name	Retention Time Standard	#RTS Status	#RTS Error	Processing Method	Type
1		6 Cation Standard - Dilution 1	<input checked="" type="checkbox"/>	Valid		6 Cation	Unknown
2		6 Cation Standard - Dilution 2	<input checked="" type="checkbox"/>	Valid		6 Cation	Unknown
3		6 Cation Standard - Dilution 3	<input checked="" type="checkbox"/>	Valid		6 Cation	Unknown
4		6 Cation Standard - Dilution 4	<input type="checkbox"/>				
5		6 Cation Standard - Dilution 5	<input type="checkbox"/>				

Assign Retention Time Standards and view status and errors

2016-03-01 - CS14 4µm 2 mm - 6 Cation Test Standard #1

1 - Lithium - 5.987
2 - Sodium - 7.793
3 - Ammonium - 9.543
4 - Potassium - 13.423
5 - Magnesium - 17.477
6 - Calcium - 23.557

#	Name	Ret. Time	RTS Ratio Tolerance	Channel	Eval. Type	Stand. Meth
1	Lithium	(R) 31.000 [%]	4.000 [%]	CD	Area	External
2	Sodium	(R) 46.000 [%]	4.000 [%]	CD	Area	External
3	Ammonium	(R) 17.000 [%]	7.000 [%]	CD	Area	External
4	Potassium	(R) 70.000 [%]	4.000 [%]	CD	Area	External
5	Magnesium	(R) 85.000 [%]	4.000 [%]	CD	Area	External
6	Calcium	(R) 100.000 [%]	4.000 [%]	CD	Area	External

Enter ratios and tolerance

Retention time standard (RTS) processing method

Save time updating processing methods with automatic compensation for changes in retention time.

Designed for use with Thermo Scientific™ Dionex™ Retention Time Standards the RTS Processing Method automates the entering and updating of component retention times in a processing method.

Launch eWorkflow | Smart Startup/Shutdown | Release Control | Monitor Baseline

Consumables

- Inventory
- Pump_ECD
 - CRD Installation
 - EGC Installation
 - Column Installation
 - CR-TC Installation
 - CRS Installation

Installing a Column (Guard, Separator, Trap)

Column installation is a relatively straightforward procedure and is mostly the same for types of columns that can be added to a chromatography system.

1. Remove old column (+)
2. Flush Column (+)
3. Complete Column Installation (+)

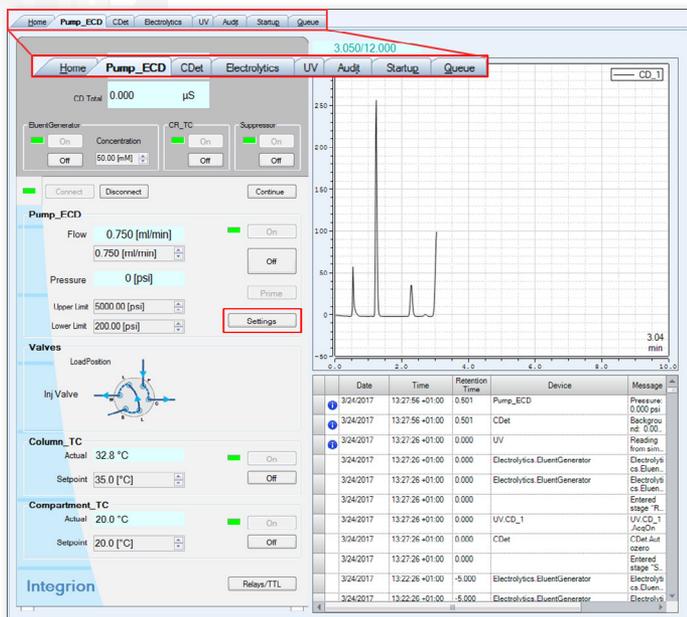
Note: Do not operate the column over the maximum allowable pressure.
Refer to the product manual that came with the column for complete installation instructions.

Pump
On Flow
Off 0.750 [ml/min]

Consumables installation guides¹

Make installation of IC consumables much easier with consumables installation guides providing detailed instructions for installing consumables, including any calibration or equilibration steps required for the intended analysis.

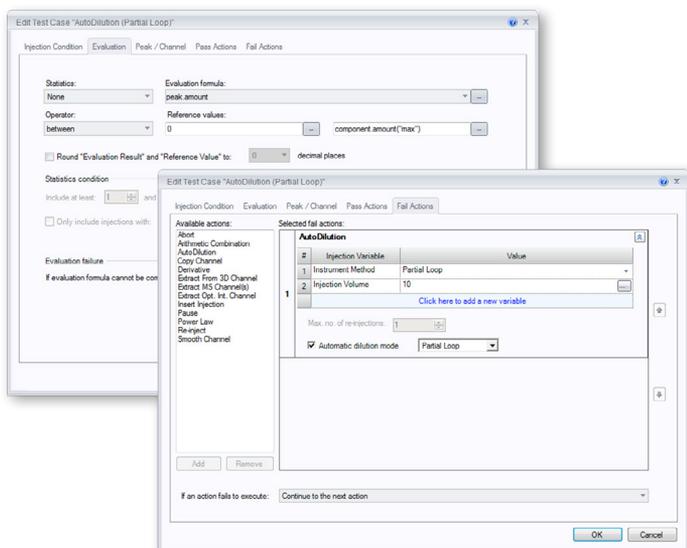
The guides are directly accessible from the Instruments category in the Chromeleon CDS Console, and users have immediate access to the instructions with step-by-step directions, video guides and any required instrument control parameters.



Intuitive graphical control with ePanels

ePanels provide a clear visual of the module status and easy access to all instrument controls. They also allow switching quickly between different views making this an ideal system for new and advanced users.

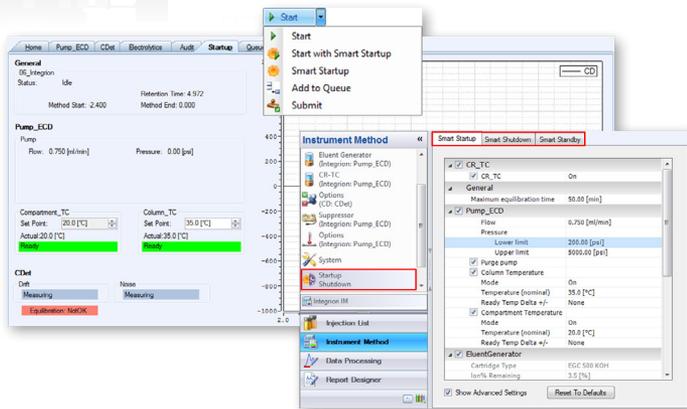
They give immediate visualization and direct control of the most important and commonly used parameters which are conveniently grouped together. Advanced commands are easily accessible through via clearly labeled buttons.



Productivity

Autodilution

Support for automatic dilution and re-injection of samples containing compound concentrations that exceed the range of the calibration curve. This eliminates the identification of these outliers and manual dilution and re-analysis of the samples, saving valuable time and increasing productivity.



Reliability

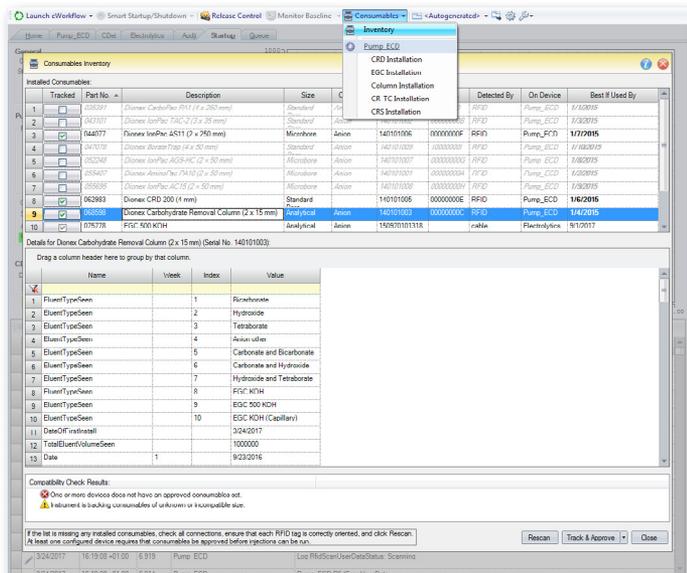
Smart Startup, Standby and Shutdown

Smart Startup initializes and equilibrates your instrument with the correct chromatographic conditions before the first injection begins, for safe, automated and unattended system startup.

Smart Standby automatically sets a low flow and adjusts associated device parameters, and can reduce the temperature of the modules and turn lamps off if needed.

Smart Shutdown safely shuts the system down. It can switch off the suppressor, eluent generator, pump, and temperature controlled devices, as well as define a gradient before the flow is switched off, helping to prevent common user errors.

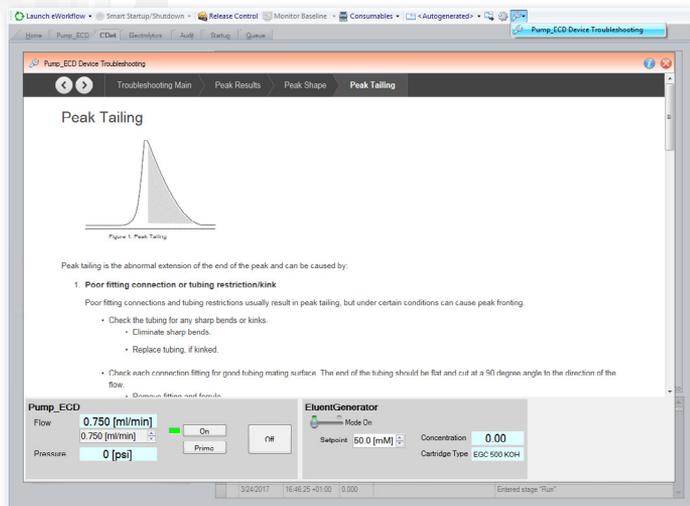
Smart Startup, Standby, and Shutdown can be easily set in the Queue for automatic execution



Consumables inventory*

Many of the consumables used with Dionex IC systems are equipped with a memory chip (RFID or wired) that allows automatic identification of the consumable, as well as tracking of many consumable parameters.

- Provides positive identification of a consumable
- Prevents consumable installation errors and mismatches
- Automatically logs consumable use and performance metrics



IC troubleshooting knowledgebase*

Quickly start producing results again with the interactive troubleshooting guide that helps diagnose and resolve most routine operating problems, directly accessible from the Instruments category in the Chromeleon CDS Console.

It provides immediate access to the solutions with guided step-by-step troubleshooting, simple to follow resolutions, and direct access to required instrument control parameters.

* Check with your sales representative whether this feature is available for your ion chromatography instrument.

Find out more at thermofisher.com/chromeleon

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